

ANEJO Nº 7.- CÁLCULOS ESTRUCTURALES

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1 OBJETO

En este Anejo se presentan los cálculos necesarios para la definición y comprobación de las pasarelas incluidas en el presente proyecto. Se trata de dos pasarelas peatonales, una sobre el canal de descarga y otra sobre la escotadura del azud, con un cajón para albergar la tubería.

Asimismo, se realiza el dimensionamiento de los anclajes de las piezas especiales (codos y válvulas) de la conducción de 200 mm de diámetro proyectada.

2 CÁLCULO DE LOS ELEMENTOS DE LA CONDUCCIÓN

2.1 DETERMINACIÓN DE LA PRESIÓN DE CÁLCULO

La presión de cálculo para determinar los anclajes a disponer deberá ser siempre superior a la presión máxima de diseño.

En el anejo de cálculos hidráulicos se calcula la presión máxima de diseño (MDP), como la presión máxima incluido el golpe de ariete. El cálculo se realiza para el máximo caudal circulante posible dada la configuración del sistema (pérdidas de carga igual a energía disponible). Se adopta como presión de cálculo en los puntos en los que ubican los codos y las válvulas proyectadas, la presión máxima de diseño más 1 bar, recogiendo en el siguiente cuadro:

PK	ϕ (mm)	Elemento	α (°)	ϕ deriv (mm)	Z depósito	Cota elemento	PFA (mca)	MDP (mca)	P cálculo (mca)	Pc adoptada (mca)
0 + 009	200	Codo 22°30'	22,50	-	1225	912	313	380,10	390,10	400
0 + 013	200	Codo 22°30' (vertical)	22,50	-	1225	910	315	380,12	390,12	400
0 + 014	200	Codo 11°15'+DE	11,25	80	1225	910	315	380,12	390,12	400
0 + 026	200	Codo 90°	90	-	1225	910	315	380,2	390,2	400
0 + 050	200	Codos 11°15' azud (7)	11,25	-	1225	910,2	314,8	380,4	390,4	400
0 + 102	200	Codo 90°	90	-	1225	910,5	314,5	380,74	390,74	400
0 + 106	200	Ventosa+Válvula Corte	-	-	1225	910,5	314,5	380,73	390,73	400
0 + 108	200	Codo 11,25° (vertical)	11,25	-	1225	910,5	314,5	380,72	390,72	400
0 + 119	200	Codo 11,25° (vertical)	11,25	-	1225	915,1	309,9	380,71	390,71	400
0 + 396	200	Ventosa	-	50	1225	949	276	344,33	354,33	375
1 + 083	200	Ventosa+Válvula Corte	-	-	1225	1000,5	224,5	297,48	307,48	325
1 + 091	200	Desagüe	-	80	1225	1000,5	224,5	296	306	325
1 + 715	200	Ventosa	-	50	1225	1058,5	166,5	243,32	253,32	275
1 + 830	200	Codo 22°30' + 11°15'	33,75	-	1225	1064	161	238	248	250
1 + 943	200	Codo 45°	45	-	1225	1071	154	232,57	242,57	250

2.2 CÁLCULO DEL EMPUJE HIDRÁULICO

El empuje hidráulico se ha obtenido para los distintos elementos singulares aplicando las siguientes fórmulas:

- Codos:

$$E = MDP \cdot \left(\frac{\pi \cdot \phi^2}{4} \right) \cdot 2 \cdot \sin\left(\frac{\theta}{2}\right)$$

- Derivaciones y válvulas:

$$E = MDP \cdot \left(\frac{\pi \cdot \phi^2}{4} \right)$$

Donde:

$E=$	Empuje hidráulico
$MDP=$	Presión máxima de diseño
$\varnothing=$	Diámetro interior de la conducción
$\Theta=$	Ángulo de desviación de los codos

La presión de cálculo en cada uno de los elementos singulares de la conducción es la recogida en la tabla del apartado anterior.

A continuación se presenta una tabla con los empujes obtenidos a partir de estas fórmulas en cada uno de los elementos singulares existentes en la conducción.

PK	ϕ (mm)	Elemento	α (º)	ϕ deriv (mm)	PFA (mca)	MDP (mca)	P cálc (mca)	E (t) (Pcal)
0 + 009	200	Codo 22º30'	22,30	-	311	380,10	400,00	4,90
0 + 013	200	Codo 22º30' (vertical)	22,30	-	315	380,12	400,00	4,90
0 + 014	200	Codo 11º15'+DE	11,25	80	315	380,12	400,00	4,47
0 + 026	200	Codo 90º	90	-	315	380,2	400,00	17,77
0 + 050	200	Codos 11º15' azud (7)	11,25	-	314,8	380,4	400,00	2,46
0 + 102	200	Codo 90º	90	-	314,5	380,74	400,00	17,77
0 + 106	200	Ventosa+Válvula Corte	-	-	314,5	380,73	400,00	12,57
0 + 108	200	Codo 11º15' (vertical)	11,25	-	314,5	380,72	400,00	2,46
0 + 119	200	Codo 11º15' (vertical)	11,25	-	314,5	380,71	400,00	2,46
0 + 396	200	Ventosa	-	50	276	344,33	375,00	-
1 + 083	200	Ventosa+Válvula Corte	-	-	224,5	297,48	325,00	10,21
1 + 091	200	Desagüe	-	80	224,5	296	325,00	1,63
1 + 715	200	Ventosa	-	50	166,5	243,32	275,00	-
1 + 830	200	Codo 22º30' + 11º15'	33,75	-	161	238	250,00	4,56
1 + 943	200	Codo 45º	45	-	154	232,57	250,00	6,01

2.3 ANCLAJES PARA LA CONDUCCIÓN SOBRE EL AZUD. LONGITUD ACERROJADA Y DIMENSIONAMIENTO DE ANCLAJES.

Al inicio del tramo de conducción a sustituir, entre la arqueta de la que parte la conducción hasta su paso sobre el azud, la pendiente de la tubería es muy elevada, 38%, lo que hace necesario anclar la tubería para evitar su deslizamiento. Para ello, se decide disponer un único macizo de anclaje en la cabecera del tramo y colocar tubería con junta acerojada.

Asimismo, en el trazado sobre el azud existen 2 codos de 90° y 7 codos de 11°15'. Para el anclaje de estos codos únicamente se dispone de un ancho sobre el propio azud de 1,6 m, por lo que se descarta la opción de anclajes tradicionales de hormigón. En su lugar, se colocará tubería de fundición dúctil con junta acerojada, anclada al azud mediante abrazaderas metálicas, de forma que el esfuerzo se transmita a lo largo de la tubería y ésta lo transmita al azud mediante las abrazaderas metálicas.

En el caso de los codos en planta (11°15') y en alzado (codo descendente de 22°30') existentes en el estribo de la pasarela sobre el canal de descarga, será el propio estribo el que sirva de anclaje para éstos.

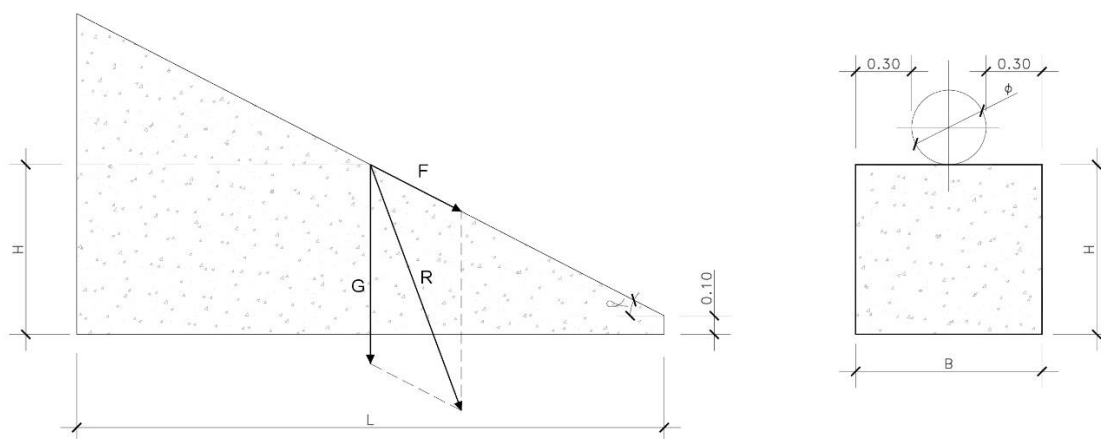
En el resto del trazado de la conducción se comprueba que no es necesario disponer ningún tramo con junta acerojada. No obstante, se dispondrá tubería con este tipo de junta en los tramos con pendiente superior al 20%, tal y como recomiendan las Normas de Canal de Isabel II, quedando el tramo comprendido entre el PK 0+000 y PK 0+216 de tubería de fundición dúctil con junta acerojada.

2.3.1 Cálculo de la estabilidad frente al deslizamiento del primer tramo en pendiente

En este caso se escoge el uso de tubería acerojada con unión Standard Ve, que para el DN 200 admite una Presión de Funcionamiento de 40 bar. La tubería acerojada permite que la unión trabaje a tracción, siendo uniones que también son flexibles y disponen de una desviación angular de 3°, que permiten adaptarse a ciertas curvaturas del trazado.

Para evitar el deslizamiento se propone anclar el tramo en pendiente mediante un macizo de hormigón colocado en cabecera detrás del enchufe del primer tubo.

Se propone un macizo con una geometría de este tipo:



Se adoptan las siguientes hipótesis para el cálculo:

- La resultante R pasa por el tercio central de la base del macizo
- No se tiene en cuenta el efecto del empuje hidráulico sobre el codo superior

Las dimensiones mínimas del macizo a disponer serán:

$$L = \left(\frac{6F \cos \alpha}{\gamma B} \right)^{1/2}$$

$$H = 0,5 L \operatorname{tg} \alpha + a \quad (a=0,10 \text{ m mínimo})$$

$$G = \gamma LBH$$

Donde:

α : pendiente

G: peso del macizo

B: anchura del macizo

L: longitud del macizo

H: altura del macizo

α : altura del talón del macizo

γ : densidad del hormigón (2,3 t/m³)

$$F = W(\sin \alpha - f \cos \alpha)$$

$$f = \alpha_2 \operatorname{tg}(0,8 \cdot \emptyset)$$

f: coeficiente de rozamiento suelo/tubo

W: peso del tubo o del tramo lleno de agua

$\alpha_2 = 1$ (tubo revestido zinc)

\emptyset : ángulo de rozamiento interno

Dadas las dimensiones obtenidas, se comprueba que la resistencia de la junta acorrojada es superior al peso del tramo de tubo lleno de agua y que el macizo no desliza:

$$(F \cos \alpha / G) \leq 0,9 \operatorname{tg} \emptyset$$

En caso de no cumplir la condición de deslizamiento, se aumenta la altura del macizo.

A continuación se presenta el cálculo realizado para determinar las dimensiones del macizo a disponer:

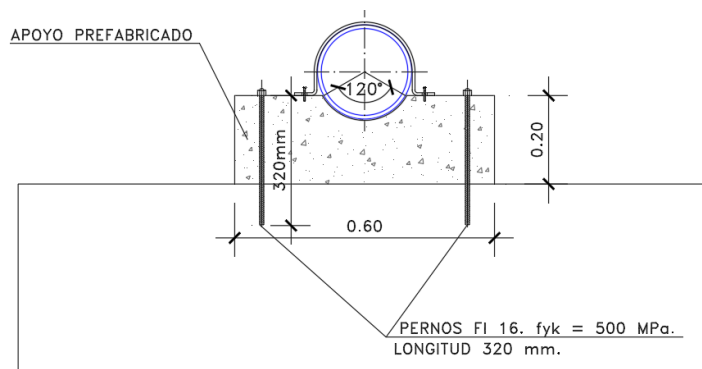
D tubo=	0,2	m	
e tubo=	0,01	m	
Pendiente=	38%		
Ángulo=	0,36	20,56	º
Altura tierras=	1	m	
peso tubo=	33,1	kg/m	
γ hormigón=	2,3	t/m ³	
γ terreno=	2	t/m ³	
α_2 =	1		
Φ =	20	0,34906585	
Ltubo=	12	m	
Lb=	1,4	m	
Peso tubo lleno=	0,06	t/m	
Peso terreno=	0,44	t/m	
Cef. Roz=	0,29		
F=	0,55	t/m	
Lmin=	1,29	m	
B=	0,80	m	
hb=	0,30	m	
Hb=	0,79	m	
V para Lmín=	0,72	m ³	
Vmín=	0,68	m³	
V=	0,78	m³	

2.3.2 Abrazaderas metálicas sobre el azud

Estas uniones acerrojadas flexibles, en una instalación aérea, como es la instalación sobre el azud, deben fijarse para evitar el movimiento de la tubería en caso de sobrepresiones de la conducción, ya que el acerrojado de la tubería no evita estos posibles movimientos de la tubería, por lo que los tubos deben ser fijados solidariamente mediante abrazaderas a la solera de la galería o bien mediante macizos de hormigón que sirvan de apoyo y fijación de la tubería, en el caso que la solera no ofrezca garantías de resistencia.

La cantidad mínima de hormigón necesario por cada tubo DN 200 es de 0,72 m³, que equivale al peso de 30 cm de tierras sobre la generatriz superior de un tubo en zanja, en una longitud de 6 metros. Este volumen se consigue sobradamente con la masa del azud.

Para asegurar la transmisión de esfuerzos es muy importante que las abrazaderas y apoyos se anclen de manera solidaria al azud. Se considera recomendable disponer 2 abrazaderas por tubo, una a cada lado de la unión, proponiéndose este soporte tipo:



Se adoptan macizos de hormigón de 0,60 m de anchura y 0,20 m de espesor, anclados al azud mediante pernos $\phi 16$ de 0,32 m de longitud.

2.3.3 Comprobación del resto del trazado

Tras el análisis del trazado en alzado de la conducción a partir de su paso sobre el azud, se comprueba que el tramo más problemático es el situado tras éste (PK 0+120), donde la pendiente es del 27,83%.

A continuación se presenta el cálculo realizado por Saint Gobain en el que se justifica que, dadas las condiciones de la conducción, no es necesario disponer macizo para evitar el deslizamiento:

DN200 P.K. 0+120	
Suelo	
Pendiente (%)	27.83
Consideración del relleno	si
Densidad (t/m3)	2
Ángulo de rozamiento (°)	20
Altura de cobertura	1
Tubo	
Gama de tubo	Std Vi
Diámetro nominal (mm)	200
Masa (kg/m)	33,1
Tipo de revestimiento	Standard
Longitud del tramo (m)	13,97
Deslizamiento	
Masa del agua (kg/m)	31,42
Masa de las tierras (t/m)	0,00
Coef. rozamiento	0,33
Coef. rozamiento	0,29
Fuerza de deslizamiento (t)	-0,01
Valores límites	
PFA (bar)	16,00
Tracción máxima (t)	6,31
Longitud max. de acerojado (m)	0,0
Límite de acerojado sobrepasado	no
Estabilidad de la obra	
Coefficiente de estabilidad	1,00
Estabilidad asegurada	-
Dimensiones del macizo	
Densidad (t/m3)	2,3
Masa de hormigón (t)	0,00
Sobreancho (m) : Sb	0
Altura menor (m) : hb	0,00
Altura mayor (m) : Hb	0,00
Anchura : lb	0,00
Longitudn (m) : Lb	0,00
Volumen (m3)	0,00
No hay deslizamiento. Macizo y acerojado innecesarios.	

No obstante, siguiendo las recomendaciones de la normativa de Canal, se dispondrá tubería con junta acerojada en los tramos con pendiente mayor al 20%. En concreto, se colocará este tipo de tubería entre el PK 0+000 y el PK 0+216, ya que el existen tramos con pendientes comprendidas entre el 19,17% y el 37,83%.

2.4 ANCLAJES EN EL TRAMO EN ZANJA

Tras el paso de la conducción sobre el azud, la tubería se dispondrá en zanja, a una profundidad mínima de 1,00 m desde la arista superior. La tubería dispuesta será de fundición dúctil con junta standard. En este caso, para compensar los esfuerzos producidos en los elementos singulares, se dispondrán anclajes tradicionales de hormigón armado. El dimensionamiento de los mismos se ha realizado siguiendo las Normas para redes de abastecimiento de Canal de Isabel II.

2.4.1 Procedimiento de cálculo

El procedimiento de cálculo utilizado consiste en realizar un predimensionamiento del macizo imponiendo unos coeficientes de seguridad frente a deslizamiento y vuelco determinados, comprobando después que las tensiones transmitidas al terreno son admisibles. Las hipótesis de cálculo adoptadas son las siguientes:

- El valor del coeficiente de seguridad considerado en las comprobaciones realizadas frente a deslizamiento es 1,5, conforme a las prescripciones del Código técnico de la Edificación. Seguridad Estructural. Cimientos (CTE-SE-C).
- Características de los materiales empleados en el diseño (EHE):
 - Peso específico del hormigón: $2,30 \text{ kg/m}^3$.
- Características del terreno. Se consideran los siguientes valores unificados del terreno:
 - Peso específico del terreno: $\gamma = 1800 \text{ kg/m}^3$
 - Ángulo de rozamiento interno: $\Phi = 30^\circ$
 - Tensión admisible del terreno σ no inferior a 10 t/m^2
- La conducción se encuentra enterrada de tal forma que sobre la generatriz superior de la tubería se dispone, al menos, un espesor de tierras de 1,00 m debidamente compactadas. El macizo de anclaje se dispondrá por debajo del componente a anclar, excavando el fondo de la zanja de la conducción y hormigonando contra el terreno siempre que lo permitan las condiciones geotécnicas del mismo. En caso contrario será necesario el uso de encofrado para el macizo de anclaje y posterior relleno con suelo seleccionado (artículo 330 del PG-3) compactado al 95% Próctor.
- Se considera cierta colaboración del terreno en la pared lateral delantera del macizo en la dirección del empuje, correspondiéndose con el empuje activo del terreno.
- No se considera la influencia negativa del terreno en la pared lateral trasera del macizo en la dirección del empuje.
- No se consideran determinadas colaboraciones del terreno, como la cohesión o los rozamientos de las superficies perimetrales del macizo.
- Para el cálculo de la fuerza de rozamiento generada como oposición al movimiento de la base del macizo se tendrá en cuenta el peso del macizo más el peso del relleno que gravita sobre el macizo, excepto en el caso de las cámaras, en las que el peso del terreno se considera nulo.
 - $F_{roz} = \mu \cdot (G + T)$

Siendo:

μ Coeficiente de rozamiento $\mu = \tan \Phi$

G Peso del macizo $G = 2,3 \cdot \text{Volumen del macizo}$

T Peso del relleno que gravita $T = \gamma \cdot h_T \cdot L \cdot L$
sobre el macizo

h_T Altura de tierras sobre el macizo

- En el caso de cámaras, el dado se dispondrá bajo la solera de la misma.

2.4.2 Dimensiones y armado de los anclajes de los elementos singulares

En el Apéndice nº 1 se recogen los cálculos realizados según la tipología de los elementos singulares existentes en la conducción a sustituir.

A continuación, se presenta un cuadro resumen de los elementos especiales existentes en la conducción especificando las dimensiones y armado dispuestos para cada uno de ellos:

1. ANCLAJES DE ELEMENTOS SINGULARES

ELEMENTO*	PK	DIÁMETRO (mm)	H (m)	L1 (m)	L2 (m)	S (m)	P (m)	S ₁ (cm ²)	S ₂ (cm ²)	S* ₁ (cm ²)
Codo 90º PN40	Sobre azud	200	1,60	3,20	3,20	0,65	0,4	Φ16/0,15	Φ12/0,25	—
Codo 22º30' PN40	0+009	200	0,85	1,70	1,70	0,65	0,4	Φ16/0,15	Φ12/0,25	—
Codo 11º15' PN40 **	0+119	200	0,65	1,30	1,30	0,65	0,4	Φ16/0,15	Φ12/0,25	—
Codo 33º45' PN25	1+830	200	0,80	1,60	1,60	0,65	0,4	Φ16/0,15	Φ12/0,25	—
Codo 45º PN25	1+943	200	0,90	1,80	1,80	0,65	0,4	Φ16/0,15	Φ12/0,25	—

* Los anclajes de los codos de la parte de la conducción situada sobre el azud, se ejecutarán mediante abrazaderas ancladas al propio azud

** Codos de 11º15' en estribo 1 A de pasarela de canal descarga (PK 0+014) y en arqueta de válvula de seccionamiento (PK 0+108)

2. ANCLAJES BAJO CÁMARAS (VÁLVULAS DE SECCIONAMIENTO)

ELEMENTO	PK	DIÁMETRO (mm)	H (m)	L1 (m)	L2 (m)	S (m)	P (m)	S ₁ (cm ²)	S ₂ (cm ²)	S* ₁ (cm ²)	Φ x/y
VÁLVULA CORTE PN 40	0+106	200	1,60	3,20	3,20	0,65	0,40	Φ12/0,15	Φ12/0,15	—	Φ12/0,10
VÁLVULA CORTE PN 30	1+083	200	1,35	2,70	2,70	0,65	0,40	Φ12/0,15	Φ12/0,15	—	Φ12/0,10

3.1 ACCIONES

A continuación se muestra el cálculo de las acciones sobre la estructura, de acuerdo con la IAP-2011.

CÁLCULO ACCIONES IAP 2011				
Proyecto: Pasarela sobre escotadura. Azud Tenebroso				
1) Datos				
1.1) Datos generales				
	L =	16,90	m	Longitud total puente
	Btot =	1,19	m	Anchura total de la pasarela
	Bpeat =	1,05	m	Anchura de la zona peatonal
	Htot=	1,92	m	Altura total de pasarela
	Hpeat=	1,25	m	Altura de zona peatonal
	Lcs=	16,90	m	Longitud de cordón superior
	Lci =	16,90	m	Longitud de cordón inferior
	Lcat=	14,54	m	Longitud de cordón de apoyo de tubería
	nc =	14,00		Número de celdas
	Lcc =	1,21	m	Longitud de cordón en cada celda
	nms =	15,00		Número de montantes superiores
	Hms=	0,97	m	Altura de montantes superiores
	nd =	14,00		Número de diagonales
	Ld=	1,36	m	Longitud de diagonales
	nmi =	6,00		Número de montantes inferiores
	Hmi=	0,53	m	Altura de montantes inferiores
2) Acciones permanentes				
2.1) Peso propio				
	YACERO =	78,5	kN/m ³	Peso específico del hormigón armado
2.2) Cargas muertas				
Tubería	FD - Ø 300 mm			
	d ext=	0,23	m	Diámetro exterior de tubería
	d int=	0,2	m	Diámetro interior de la tubería
	A int=	0,03	m ²	Área interior de la tubería
	q agua=	0,31	kN/m	Peso del agua pml
	q tubería=	0,37	kN/m	Peso lineal de tubería vacía
	q agua + q tubería=	0,68	kN/m	Peso lineal tubería llena
	Ltubería =	6	m	Longitud de cada tramo de tubería
	R tubería =	2,05	kN	Reacción en cada apoyo de tubería
Tramex	Malla 20x20 y pletina de 30x3			
	q tra=	0,42	kN/m ²	Peso tramex por m2
	Btra =	1,05	m	Ancho del tramex
	Rtra=	0,22	kN/m	Reacción del tramex pml
Rejilla Lateral de celosía				
	qr =	0,42	kN/m ²	Peso rejilla por m2
	Ar =	0,59	m ²	Área de unidad de rejilla
	Qr=	0,25	kN	Peso total de la unidad de rejilla
	Lr =	3,54	m	Longitud de apoyo de la rejilla
	qrl =	0,07	kN/m	Peso lineal de la rejilla
	qrm =	0,07	kN/m	Carga rejilla en montante
	qrc =	0,07	kN/m	Carga rejilla en cordón
	ord =	0,14	kN/m	Carga rejilla en diagonal

3) Acciones variables

3.1) Sobrecargas de uso

3.1.1) Carga Vertical Uniforme

qscuv=	5	kN/m ²	Sobrecarga de uso vertical en pasarela
Bpeat=	1,05	m	Ancho de zona peatonal
Rscuv=	2,63	kN/m	Reacción SCUV pml

3.1.2) Carga Horizontal

qscuh=	0,5	kN/m ²	Sobrecarga de uso horizontal en pasarela
Bpeat=	1,05	m	Ancho de zona peatonal
Rscu=	0,26	kN/m	Reacción SCUH pml

3.1.3) Comprobaciones locales

Qp=	10	kN	Carga puntual para comprobaciones locales
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3.1.4) Empuje sobre barandilla

Qb=	1,5	kN/m	Carga sobre barandilla, concomitante con las anteriores
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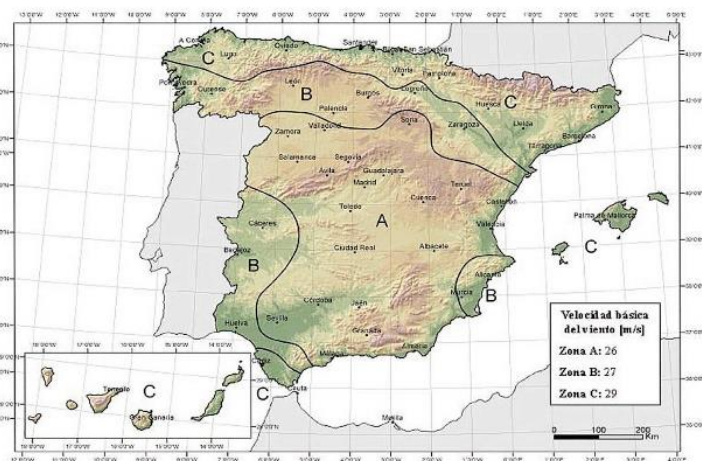
3.2) Acciones climáticas

3.2.1) Viento

3.2.1.1) Velocidad básica del viento

odir	1	
cseason	1	
vb.o	26	m/s
vb	26	m/s

factor direccional del viento
factor estacional del viento



T	100	años	periodo de retorno
k	0,2		
n	0,5		
cprob	1,04		factor de probabilidad
vb (T)	27,00	m/s	velocidad básica fundamental del viento

$$c_{prob} = \left[\frac{1 - K \ln \left[-\ln \left(1 - \frac{1}{T} \right) \right]}{1 - K \ln [0,98]} \right]^n$$

3.2.1.2) Velocidad media del viento

co	1,1	coeficiente de topografía en valles con encauzamiento, se tomará 1,1
z	6	m altura del punto de aplicación del empuje del viento respecto al terreno o lámina de agua
Tipo de entorno:	III	
kr	0,216	factor del terreno
z ₀	0,300	longitud de la rugosidad, según tabla 4.2-b
z _{min}	5,000	altura mínima según tabla 4.2-b
z	6,00	z > z _{min}
cr(z)	0,65	factor de rugosidad

$$c_r(z) = k_r \ln \left(\frac{z}{z_0} \right) \quad \text{para } z > z_{min}$$

$$c_r(z) = c_r(z_{min}) \quad \text{para } z < z_{min}$$

vm(z)	19,22	m/s	velocidad media del viento
-------	-------	-----	----------------------------

3.2.1.3) Empuje del viento			
$F_w = \left[\frac{1}{2} \rho v_b^2(T) \right] c_g(z) c_f A_{ref}$		En dirección horizontal	
$F_{w,z} = \left[\frac{1}{2} \rho v_b^2(T) \right] c_g(z) c_{f,z} A_{ref,z}$		En dirección vertical	
1/2*ρ*v _b (T) ²	455,64	N/m2	presión de la velocidad básica del viento
kl	1,00		factor de turbulencia
z	6,00	z > z _{min}	
ce(Z)	1,58		coeficiente de exposición
$c_g(z) = k_f^2 \left[c_o^2 \ln^2 \left(\frac{z}{z_o} \right) + 7 k_f c_o \ln \left(\frac{z}{z_o} \right) \right]$		para z ≥ z _{min}	
$c_g(z) = c_g(z_{min})$		para z < z _{min}	
3.2.1.3.1) Empuje transversal del viento. Celosía			
a) Sin sobrecarga			
Cf _{ssc} =	1,80		
	Barlovento	Sotavento	
dcs =	0,14	0,14	m, canto del perfil del cordón superior
CS =	2,37	2,37	m2, área del cordón superior
			3,88094369
dci =	0,14	0,14	m, canto del perfil del cordón superior
CI =	2,37	2,37	m2, área del cordón inferior
			3,88094369
Tubería =	3,89	0	m2, área expuesta de tubería
dcst =	0,14	0,14	m, canto del perfil de soporte de la tubería
ST =	2,0356	2,0356	m2, área del cordón de soporte de la tubería
			3,33898942
nms=	15,00	15,00	número de montantes superiores
dms =	0,10	0,10	m, canto de los montantes superiores
hms =	0,97	0,97	m, altura de los montantes superiores
Ams =	1,455	1,455	m2, área de los montantes superiores
			2,38663274
nmi=	6,00	6,00	número de montantes inferiores
dmi =	0,10	0,10	m, canto de los montantes superiores
hmi =	0,53	0,53	m, altura de los montantes superiores
Ami =	0,3204	0,3204	m2, área de los montantes superiores
			0,52555129
nd=	14,00	14,00	número de diagonales
dd=	0,10	0,10	m, canto de las diagonales
hd =	1,36	1,36	m, longitud de las diagonales
Ad =	1,904	1,904	m2, área de las diagonales
Acsc=	14,33	10,45	m2
Atcsc =	24,78		m2
Ftssc =	32,17		kN, fuerza transversal con sobrecarga
b) Con sobrecarga			
Cf _{ssc} =	2,10		
	Barlovento	Sotavento	
hsc =	1,25	0,00	m, altura de la sobrecarga en pasarela
Lsc=	16,90	16,90	
Asc=	21,13	0,00	m2, área de sobrecarga
dci =	0,14	0,00	m, canto del perfil del cordón superior
CI =	2,37	0,00	m2, área del cordón inferior
Tubería =	3,89	0	m2, área expuesta de tubería
dcst =	0,14	0,14	m, canto del perfil de soporte de la tubería
ST =	2,0356	2,0356	m2, área del cordón de soporte de la tubería
nmi=	6,00	6,00	número de montantes inferiores
dmi =	0,10	0,10	m, canto de los montantes inferiores
hmi =	0,53	0,53	m, altura de los montantes inferiores
Ami =	0,32	0,32	m2, área de los montantes inferiores
Acsc=	29,73	2,36	m2
Atcsc =	32,09		m2
Ftsc=	48,60		kN, fuerza transversal con sobrecarga

3.2.1.3.2) Empuje vertical del viento. Tableros de alma llena

B =	1,19	m	Ancho del tablero
L =	16,90	m	Longitud del tablero
Cf _{pos} =	0,90		Coficiente de fuerza con (+/- 0,9)
Cf _{neg} =	-0,90		
Aref =	20,111	m ²	Área de referencia sin sobrecarga
Fvpos =	13,05	kN	Empuje vertical sobre el tablero
Fvneg =	-13,05	kN	

3.2.1.3.3) Momento de vuelco. Celosía

Empuje horizontal

Ssc: se ponderan las áreas

	Area	Altura	(altura medida desde cara inferior de cordón de soporte de tubería)
Cordón superior	4,73	1,85	
Montantes superiores	2,76	1,297	
Diagonales	3,808	1,297	
Cordón inferior	4,73	0,744	
Tubería	5,58	0,343	
Montantes inferiores	0,64	0,407	
Cordón de soporte	4,07	0,07	

Atot =	26,32	m ²	
Hvssc =	0,88	m	Punto de aplicación del empuje respecto a la CI del CST
h apoyos =	0,674	m	
Mvssc =	7,16	kNm	Momento debido al empuje transversal total sin sobrecarga

Csc: se ponderan las áreas

	Area	Altura	
Sobrecarga	21,13	1,427	
Cordón inferior	2,37	0,744	
Tubería	5,58	0,343	
Montantes inferiores	0,64	0,407	
Cordón de soporte	4,0712	0,07	
Atot =	33,78		
Hcsc =	1,02		Punto de aplicación del empuje respecto a la CI del CST
h apoyos =	0,674	m	
Mvssc =	17,56	kNm	Momento debido al empuje transversal con sobrecarga

Empuje vertical

0,25*B =	0,30	m	Punto de aplicación del empuje vertical
Mvpos =	3,88	kNm	Momento debido al empuje vertical positivo
Mvneg =	-3,88	kNm	Momento debido al empuje vertical negativo

3.2.1.3.4) Empuje longitudinal. Celosía

co	1,1	coeficiente de topografía
α =	0,610	coeficiente definido en la tabla 4.2-d
z =	6,00	z > z _{min}
L(z) =	35,332	Longitud integral de la turbulencia

$$L(z) = \begin{cases} 300 (z_{min}/200)^{0.6} & \text{para } z < z_{min} \\ 300 (z/200)^{0.6} & \text{para } z_{min} \leq z \leq 200 \\ 300 & \text{para } z > 200 \end{cases}$$

$$\Phi(L/Lz) = 0,096 \left[\Phi\left(\frac{L/Lz}{1} - 0,230 + 0,182 \ln\left[\frac{L/Lz}{1}\right]\right) \right]$$

siendo: $0 \leq \Phi[L/Lz] \leq 1$

$$cred = 0,935 \left[1 - \frac{7}{c_1 \ln\left(\frac{z}{z_0} + 7\right)} \right] \Phi\left[\frac{L/Lz}{1}\right]$$

0,5*cred*Ftssc =	15,97	kN, Empuje longitudinal sobre el tablero sin sobrecarga
0,5*cred*Ftssc =	23,91	kN, Empuje longitudinal sobre el tablero con sobrecarga

3.2.1.3.5) Reacciones en apoyos

líneas de apoyo	2
n apoyos	4
B	1,19

	Fver	Fhor	M
VTSSC	0	34,17	7,16
VTSCC	0	51,16	17,56
VV	-13,05	0	3,88
VLSSC	0	15,97	0
VLCSC	0	23,91	0

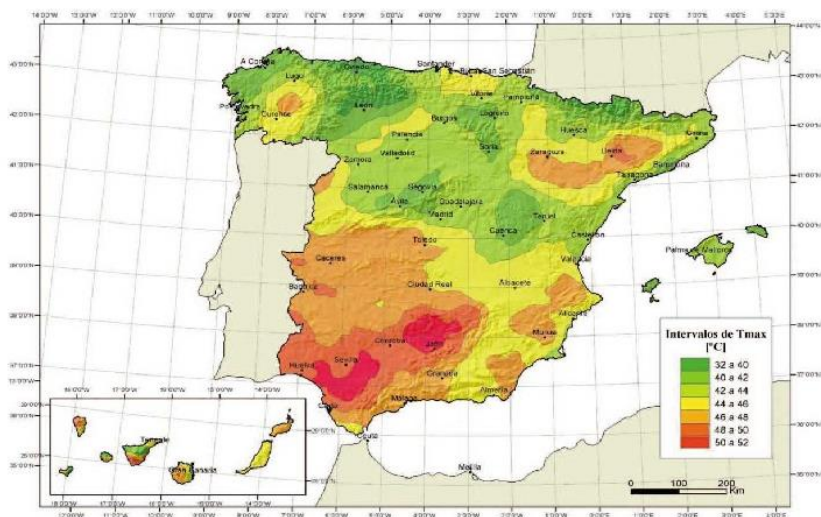
	Fvmax	Fvmin	Fhor
VTSSC	3,01	-3,01	8,54
VTSCC	7,38	-7,38	12,79
VV	-1,63	-4,90	0,00
VLSSC	0,00	0,00	3,99
VLCSC	0,00	0,00	5,98

3.2.2) Acciones térmicas

3.2.2.1) Temperatura máxima y mínima del aire

Tmax= 42 °
Tmin= -15 °
T= 100 años
p= 0,01
k1= 0,781
k2= 0,056
k3= 0,393
k4= 0,156
Tmax,p= 43,62 °
Tmin,p= 4,87 °

Temperatura máxima del aire a la sombra (figura 4.3-a)
Zona 4, Altitud 910 m
Periodo de retorno



3.2.2.2) Componente uniforme de la temperatura

Tipo de tablero 1

$\Delta T_{e,max} = 16$ °C
 $\Delta T_{e,min} = -3$ °C

tabla 4.3-b

$T_{e,max} = 56,62$ °C
 $T_{e,min} = 1,87$ °C

Temperatura efectiva máxima (-3° por ser celosía)
Temperatura efectiva mínima

$\alpha = 0,00001$

3.2.2.1) Rango de la componente uniforme de la temperatura

$\Delta T_n = 54,75$ °C
 $T_o = 15$ °C

Rango de variación de la temperatura uniforme
Temperatura inicial

$\Delta T_{n,con} = 13,13$ °C
 $\Delta T_{n,exp} = 41,62$ °C

Máxima variación de Temperatura uniforme en contracción
Máxima variación de Temperatura uniforme en dilatación

3.2.2.1) Máxima variación de contracción y dilatación en juntas y apoyos

$\Delta T_{n,con,juntas} = 28,13$ °C
 $\Delta T_{n,exp,juntas} = 56,62$ °C

para juntas: Máxima variación de Temperatura uniforme en contracción
para juntas: Máxima variación de Temperatura uniforme en dilatación

3.2.2.3) Componente de la diferencia de temperatura

Tipo de tablero: **Aero** 1

$\Delta T_m, \text{heat} = 18 \text{ } ^\circ\text{C}$

$\Delta T_m, \text{cool} = 13 \text{ } ^\circ\text{C}$

diferencia vertical de temperatura. Fibra superior más caliente

diferencia vertical de temperatura. Fibra superior más fría

TABLA 4.3 COEFICIENTE k_{sur} DE INFLUENCIA DEL TIPO Y ESPESOR DE PAVIMENTO

ESPESOR DEL PAVIMENTO	TABLERO TIPO 1		TABLERO TIPO 3	
	FIBRA SUPERIOR MÁS CALIENTE	FIBRA SUPERIOR MÁS FRÍA	FIBRA SUPERIOR MÁS CALIENTE	FIBRA SUPERIOR MÁS FRÍA
	k_{sur}	k_{sur}	k_{sur}	k_{sur}
Sin impermeabilización ni pavimento	0,7	0,9	0,8	1,1
Con impermeabilización y sin pavimento ⁽¹⁾	1,6	0,6	1,5	1,0
50 mm	1,0	1,0	1,0	1,0
100 mm	0,7	1,2	0,7	1,0
150 mm	0,7	1,2	0,5	1,0

(1) Estos valores representan valores límite superiores para superficies de color oscuro.

epavimento= 0,00 m

ksur,heat= 0,70

ksur,cool= 0,90

$\Delta T_m, \text{heat} = 12,60 \text{ } ^\circ\text{C}$

$\Delta T_m, \text{cool} = 11,70 \text{ } ^\circ\text{C}$

diferencia vertical de temperatura. Fibra superior más caliente

diferencia vertical de temperatura. Fibra superior más fría

3.2.3) Nieve

En general, sólo se considera en zonas de alta montaña o en fase de construcción.

sk= 1 kN/m²

qk= 0,8 kN/m²

sobrecarga de nieve en un terreno horizontal (tabla 4.4-a)

valor característico de la sobrecarga de nieve en tableros

4) Acciones accidentales

4.1) Acciones sísmicas (NCSP-07)

4.1.1) Aceleración de cálculo

$a_b = 0,04 \text{ } ^\circ\text{g}$

k= 1,00

Aceleración sísmica básica

Coefficiente de contribución

Importancia del puente: **Normal**

$\gamma = 1,00$

$P_R = 100$ años

$\gamma_R = 0,53$

Periodo de retorno de cálculo

$\rho = 0,53$

Coefficiente adimensional de riesgo

	Tipo Terr.	C	[m] Espesor
Estrato 1	Tipo I	1,00	10,00
Estrato 2	Tipo I	1,00	10,00
Estrato 3	Tipo I	1,00	10,00
Estrato 4	Tipo I	1,00	10,00

C= 1,33

S= 1,07

$a_c = 0,022 \text{ } ^\circ\text{g}$

Dependiente de las características de los primeros 30m.

Coefficiente de amplificación del terreno

Aceleración sísmica horizontal de cálculo

No se considerarán acciones sísmicas

5) Valores de cálculo de las acciones

5.1) Valores representativos. Factores de simultaneidad

TABLA 6.1-a FACTORES DE SIMULTANEIDAD ψ

ACCIÓN		ψ_0	ψ_1	ψ_2	
Cobrecarga de uso		Vehículos pesados	0,70	0,70	0
	gr 1, Cargas verticales	Sobrecarga uniforme	0,4	0,4	0/0,2
		Carga en aceras	0,4	0,4	0
	gr 2, Rutas horizontales		0	0	0
	gr 2, Testeros		0	0	0
	gr 4, Aglomeraciones		0	0	0
	Sobrecarga de uso en pasarelas		0,4	0,4	0
Viento	F_w	En situación persistente	0,6	0,2	0
		En construcción	0,8	0	0
		En pasarelas	0,3	0,2	0
Acción térmica	I_E		0,6	0,2	0,0
Nieve	C_{s0}	En construcción	0,8	0	0
Acción del agua	W_0	Empuje hidrostático	1,0	1,0	1,0
		Empuje hidrodinámico	1,0	1,0	1,0
Sobrecargas de construcción	C_L		1,0	0	1,0

(1) El factor de simultaneidad ψ_2 correspondiente a la sobrecarga uniforme se incrementa a 0,6 según en el caso de la combinación de acciones en situación sismica (apartado 3.2.1.3), para la cual se tomará igual a 0,2.

5.2) Estados límite últimos (E.L.U.)

TABLA 6.2-a COEFICIENTES PARCIALES PARA LAS ACCIONES γ_L
(PARA LA COMPROBACIÓN DEL E.L.U. DE EQUILIBRIO)

ACCIÓN		EFECTO	
		ESTABILIZADOR	DESESTABILIZADOR
Permanente (G y Q)	Peso propio	1,0 ⁽¹⁾	1,1 ⁽¹⁾
	Carga muerta	1,0 ⁽¹⁾	1,1 ⁽¹⁾
	Empuje del terreno	1,0	1,5
Variable (Q)	Sobrecarga de uso	0	1,30
	Sobrecarga de uso en terraplenes	0	1,30
	Acciones climáticas ⁽²⁾	0	1,2
	Empuje hidrostático	0	1,5
	Empuje hidrodinámico	0	1,5
	Sobrecargas de construcción	0	1,30
	Sobrecargas de construcción	0	1,30

(1) Los valores de 0,5 y 1,1 podrán sustituirse por 0,95 y 1,05 respectivamente, si se prevé la colocación de sistemas de control que permitan reducir durante la ejecución de la obra el valor de los factores de seguridad y si se pueden adoptar los resultados de los ensayos realizados para verificar el comportamiento de los elementos que se pretende utilizar en todos los elementos de la estructura afectados por estas acciones. Los cálculos y ensayos de control deberán ser definidos y validados en los correspondientes documentos de proyecto, de forma que sea preceptiva su puesta en acción en la obra, incluyendo una descripción detallada de las medidas constructivas que deberán adoptarse caso de ser necesarias.

(2) Las acciones climáticas se refieren a la acción térmica, al viento y la nieve.

TABLA 6.2-b COEFICIENTES PARCIALES PARA LAS ACCIONES γ_F
(PARA LAS COMPROBACIONES RESISTENTES)

ACCIÓN		EFECTO	
		FAVORABLE	DESFAVORABLE
Permanente de valor constante (G)	Peso propio	1,0	1,00
	Carga muerta	1,0	1,00
	Presentado P_1	1,0	1,0 / 1,2 ⁽¹⁾ / 1,3 ⁽²⁾
	Presentado P_2	1,0	1,30
	Otras presolicitaciones	1,0	1,0
Permanente de valor no constante (Q)	Revoluciones	1,0	1,00
	Empuje del terreno	1,0	1,5
	Asientos	0	1,2 / 1,30 ⁽³⁾
	Desplazamiento de apoyos deslizantes	1,0	1,05
	Sobrecarga de uso	0	1,30
Variable (Q)	Sobrecarga de uso en terraplenes	0	1,0
	Acciones climáticas	0	1,5
	Empuje hidrostático	0	1,5
	Empuje hidrodinámico	0	1,5
	Sobrecargas de construcción	0	1,30

(1) El coeficiente $\gamma_F = 1,2$ se aplicará al presenteado P_1 en el caso de ser trasladados los valores de la combinación de acciones al presenteado al elemento de análisis, cuando no lo sean, según sea la acción al que se aplica la carga máxima liberada de todos los elementos a usar.

(2) El coeficiente $\gamma_F = 1,3$ se aplicará al presenteado P_2 en caso de liberación (quando) cuando esta pueda ser inculcida por el colapso de un presenteado adyacente.

(3) El coeficiente $\gamma_F = 1,3$ corresponde a una evaluación de los efectos de los asentamientos mediante un cálculo o de plástico, mientras que el valor $\gamma_F = 1,2$ corresponde a un cálculo elástico de asentamientos.

5.3) Estados límite de servicio (E.L.S.)

TABLA 6.2-c COEFICIENTES PARCIALES PARA LAS ACCIONES γ_L (E.L.S.)

ACCIÓN		EFECTO	
		FAVORABLE	DESFAVORABLE
Permanente de valor constante (G)	Peso propio	1,0	1,0
	Carga muerta	1,0	1,0
	Presentado P_1	0,9 ⁽¹⁾	1,1 ⁽¹⁾
	Presentado P_2	1,0	1,0
	Otras presolicitaciones	1,0	1,0
Permanente de valor no constante (Q)	Reológicas	1,0	1,0
	Empuje del terreno	1,0	1,0
	Asientos	0	1,0
	Desplazamiento de apoyos deslizantes	1,0	1,0
	Sobrecarga de uso	0	1,0
Variable (Q)	Sobrecarga de uso en terraplenes	0	1,0
	Acciones climáticas	0	1,0
	Empuje hidrostático	0	1,0
	Empuje hidrodinámico	0	1,0
	Sobrecargas de construcción	0	1,0

(1) Para la acción del presenteado se tomarán los coeficientes que indique la EHE-08 o normativa que la sustituya, en la tabla figuran los valores que la EHE-08 recoge para el caso de estructuras pesadas. En el caso de estructuras ligeras, los coeficientes parciales son 0,90 y 1,00 para efecto favorable y desfavorable, respectivamente.

6) Combinación de acciones

6.1) Estados límite últimos (E.L.U.)

6.1.1) Situación persistente o transitoria

$$\sum_j \gamma_{G,j} G_{k,j} + \sum_{m \geq 1} \gamma_{G,m} G_{k,m} + \gamma_{Q,1} Q_{k,1} + \sum_{i \geq 2} \gamma_{Q,i} \psi_{0,i} Q_{k,i}$$

6.1.2) Situaciones accidentales

6.1.2.1) Situaciones accidentales sin sismo

$$\sum_{j \geq 1} G_{k,j} + \sum_{m \geq 1} G_{k,m}^* + \psi_{1,1} Q_{k,1} + \sum_{i \geq 1} \psi_{2,i} Q_{k,i} + A_d$$

6.1.2.2) Situaciones accidentales de sismo

$$\sum_{j \geq 1} G_{k,j} + \sum_{m \geq 1} G_{k,m}^* + \psi_{2,1} Q_{k,1} + A_{Ed}$$

6.1.3) Fatiga

Debido a la dependencia del material, la verificación del E.L.U. de fatiga se realizará según se indique en las normas de materiales corresp.

6.2) Estados límite de servicio (E.L.S.)

Combinación característica (poco probable o rara):

$$\sum_{j \geq 1} \gamma_{G,j} G_{k,j} + \sum_{m \geq 1} \gamma_{G,m} G_{k,m}^* + \gamma_{Q,1} Q_{k,1} + \sum_{i \geq 1} \gamma_{Q,i} \psi_{0,i} Q_{k,i}$$

Combinación frecuente:

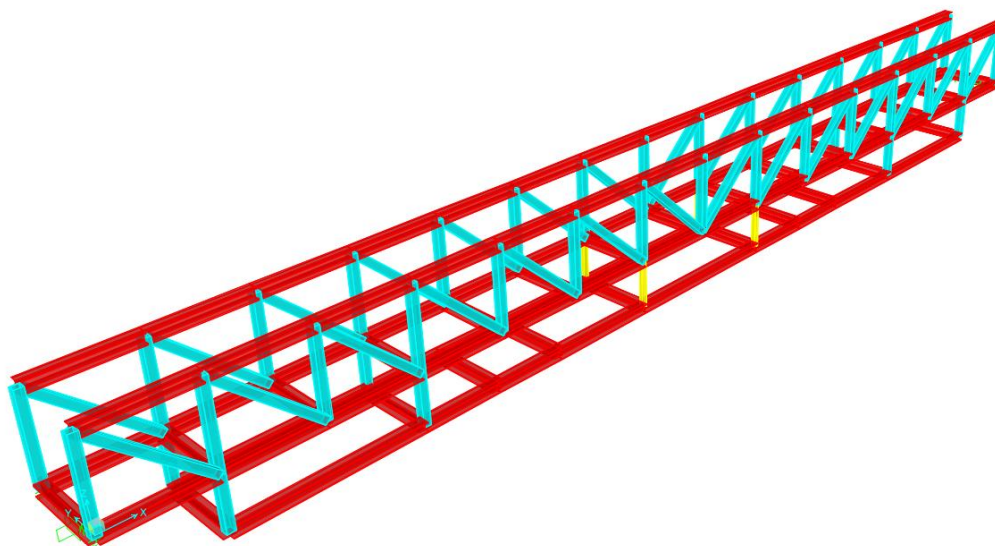
$$\sum_{j \geq 1} \gamma_{G,j} G_{k,j} + \sum_{m \geq 1} \gamma_{G,m} G_{k,m}^* + \gamma_{Q,1} \psi_{1,1} Q_{k,1} + \sum_{i \geq 1} \gamma_{Q,i} \psi_{2,i} Q_{k,i}$$

Combinación casi-permanente:

$$\sum_{j \geq 1} \gamma_{G,j} G_{k,j} + \sum_{m \geq 1} \gamma_{G,m} G_{k,m}^* + \sum_{i \geq 1} \gamma_{Q,i} \psi_{2,i} Q_{k,i}$$

3.2 MODELO DE SAP2000.

Se ha realizado un modelo 3D en SAP 2000. En los siguientes apartados se muestran los materiales, los perfiles, las cargas y las comprobaciones en ELS y ELU. En el apéndice 2 se muestran el listado de SAP 2000.



3.2.1 MATERIALES

Material Property Data

General Data

Material Name and Display Color: S275 ■

Material Type: Steel

Material Notes: [Modify/Show Notes...](#)

Weight and Mass

Weight per Unit Volume: 76,9729

Mass per Unit Volume: 7,849

Units

KN, m, C

Isotropic Property Data

Modulus of Elasticity, E: 2,100E+08

Poisson, U: 0,3

Coefficient of Thermal Expansion, A: 1,170E-05

Shear Modulus, G: 80769231,

Other Properties for Steel Materials

Minimum Yield Stress, Fy: 275000,

Minimum Tensile Stress, Fu: 410000,

Expected Yield Stress, Fye: 275000,

Expected Tensile Stress, Fue: 410000,

☐ Switch To Advanced Property Display

[OK](#) [Cancel](#)

3.2.2 SECCIONES TRANSVERSALES

I-Wide Flange Section

Section Name: HE140B Display Color: ■

Section Notes:

Extract Data from Section Property File

Open File:

Dimensions

Outside height (t3)	0,14
Top flange width (t2)	0,14
Top flange thickness (tf)	0,012
Web thickness (tw)	7,000E-03
Bottom flange width (t2b)	0,14
Bottom flange thickness (tfb)	0,012

Material: S275

Property Modifiers:

Section:

Properties:

Channel Section

Section Name: UPH80 Display Color: ■

Section Notes:

Extract Data from Section Property File

Open File:

Dimensions

Outside depth (t3)	0,08
Outside flange width (t2)	0,045
Flange thickness (tf)	8,000E-03
Web thickness (tw)	6,000E-03

Material: S275

Property Modifiers:

Section:

Properties:

Tube Section

Section Name: TUBO100X100X8 Display Color: ■

Section Notes:

Extract Data from Section Property File

Open File:

Dimensions

Outside depth (t3)	0,1
Outside width (t2)	0,1
Flange thickness (tf)	8,000E-03
Web thickness (tw)	8,000E-03

Material: S275

Property Modifiers:

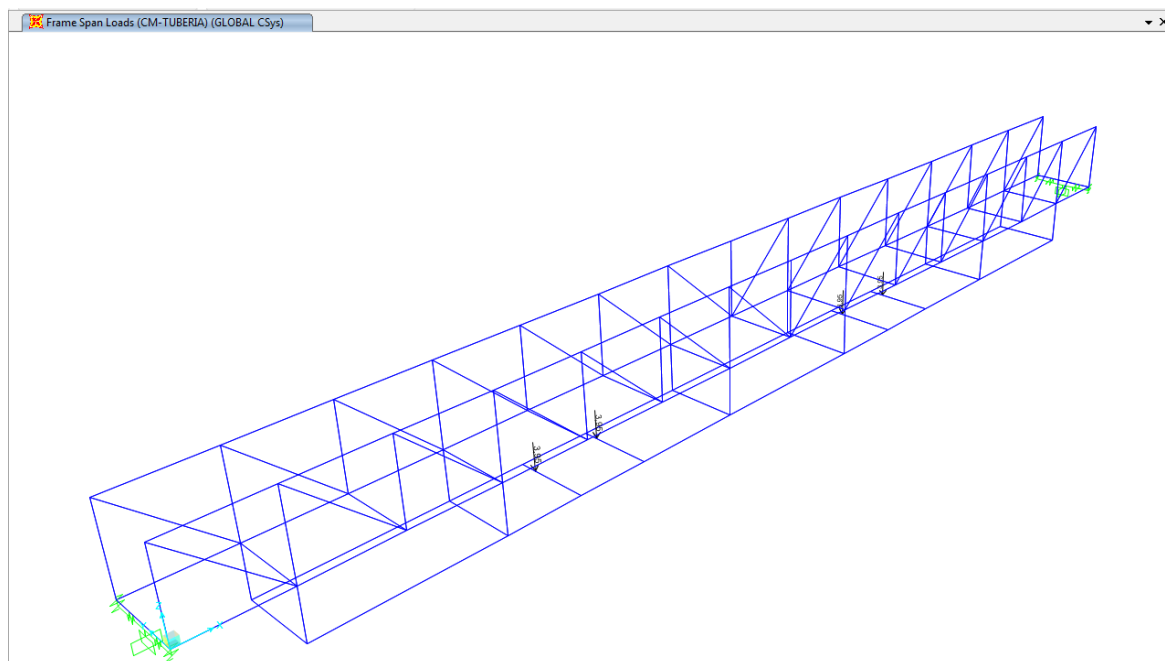
Section:

Properties:

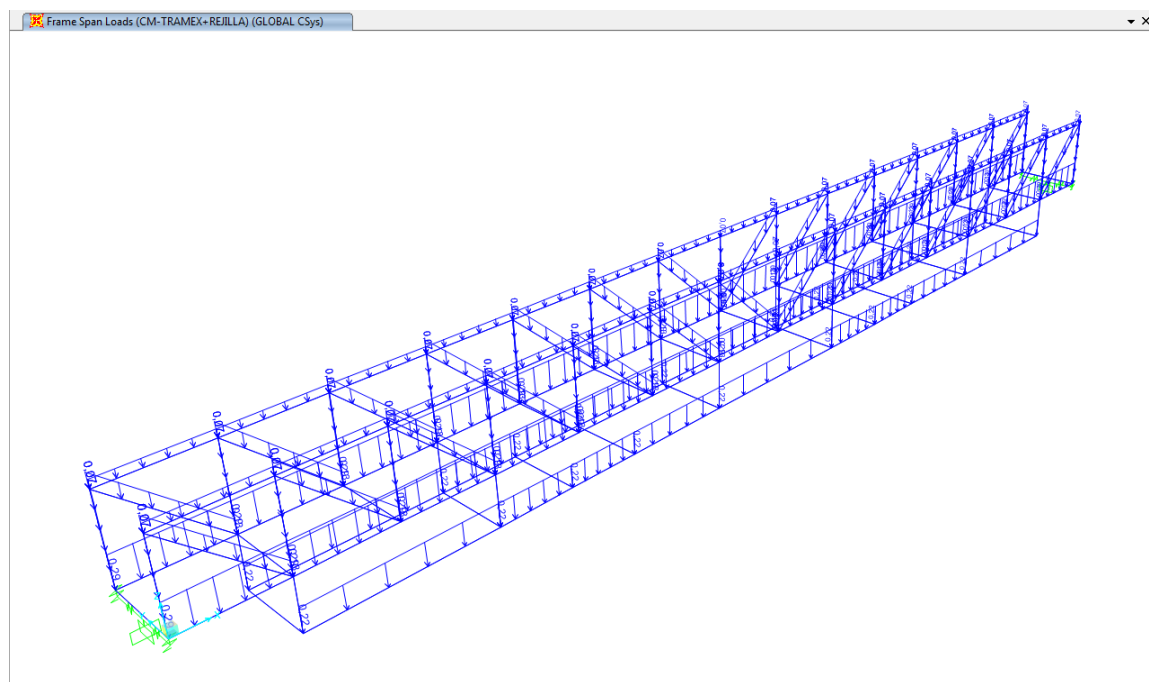
3.2.3 APOYOS

3.2.4 CARGAS

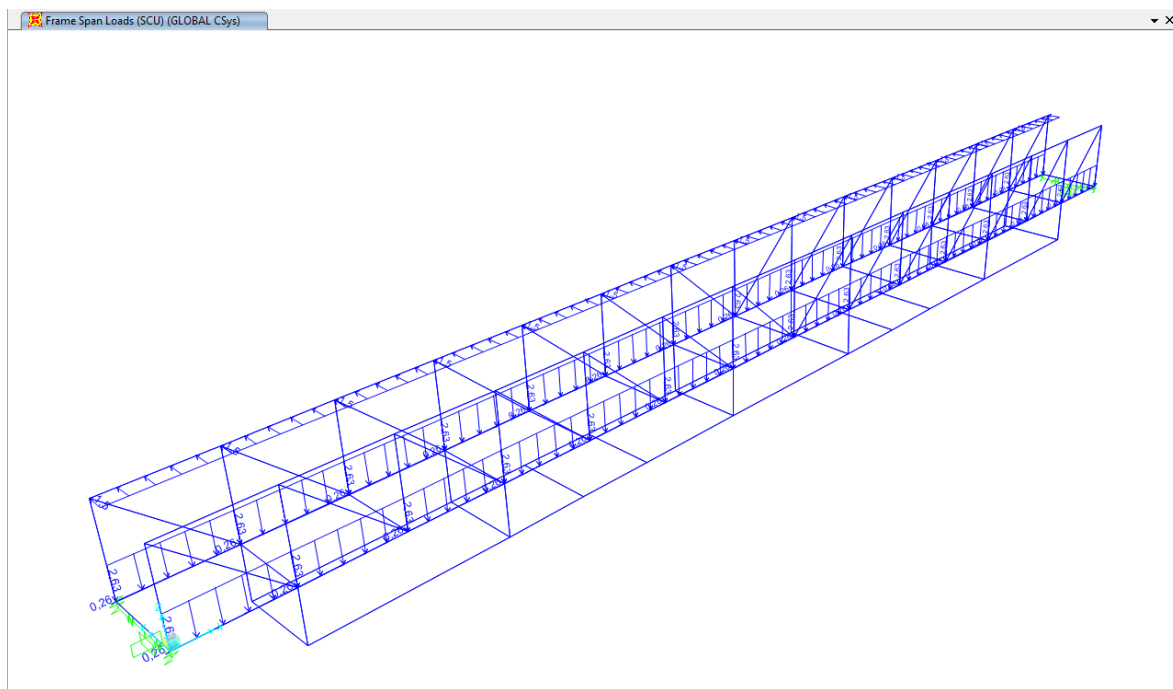
3.2.4.1 CM TUBERÍA



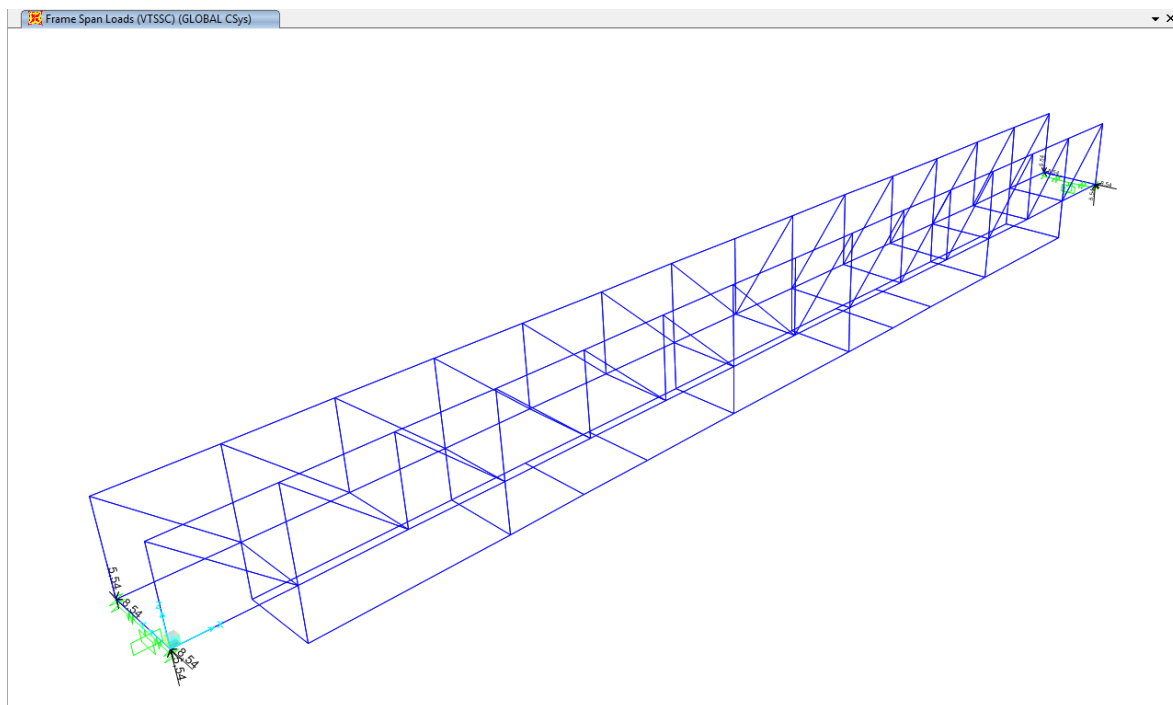
3.2.4.2 CM TRAMEX Y REJILLAS LATERALES



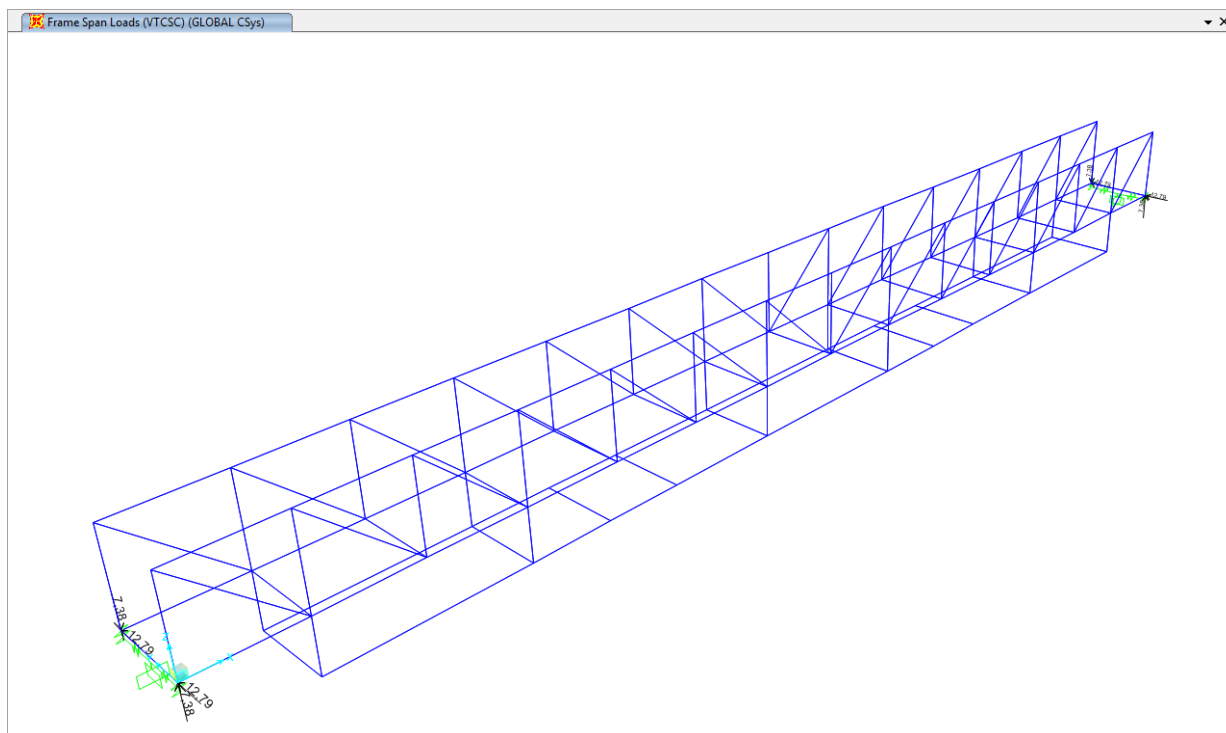
3.2.4.3 SOBRECARGA UNIFORME



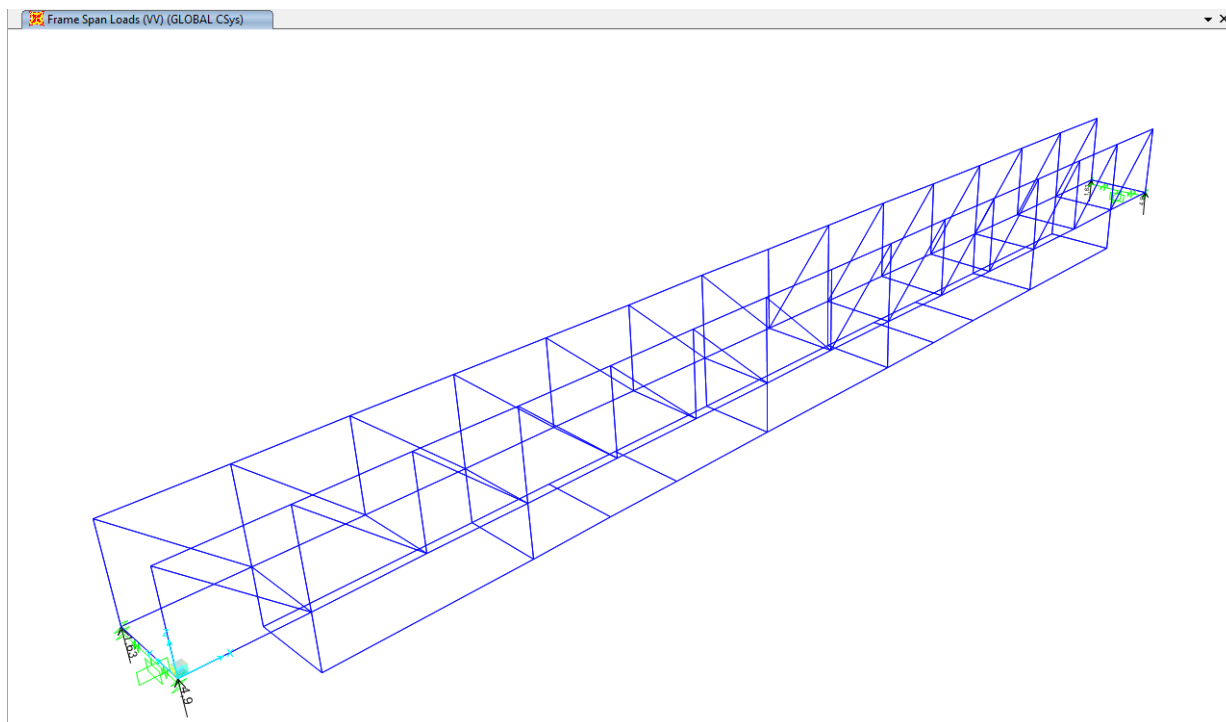
3.2.4.4 VIENTO TRANSVERSAL SIN SOBRECARGA



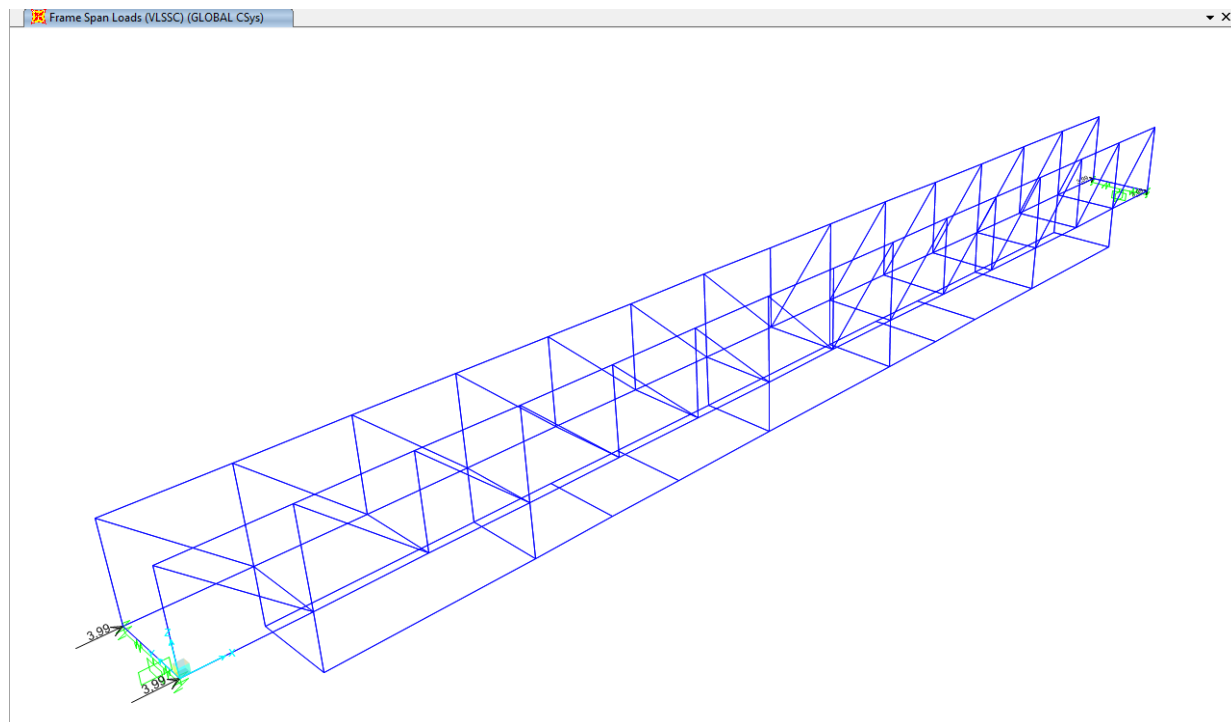
3.2.4.5 VIENTO TRANSVERSAL CON SOBRECARGA



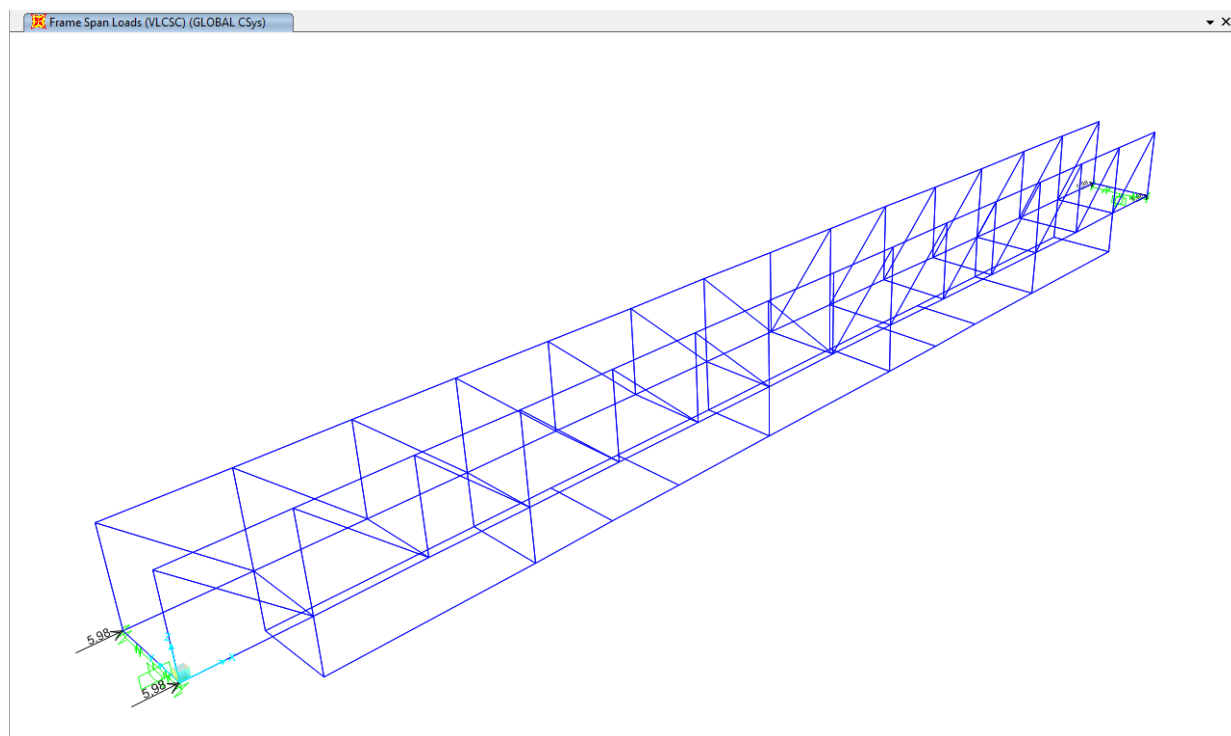
3.2.4.6 VIENTO VERTICAL



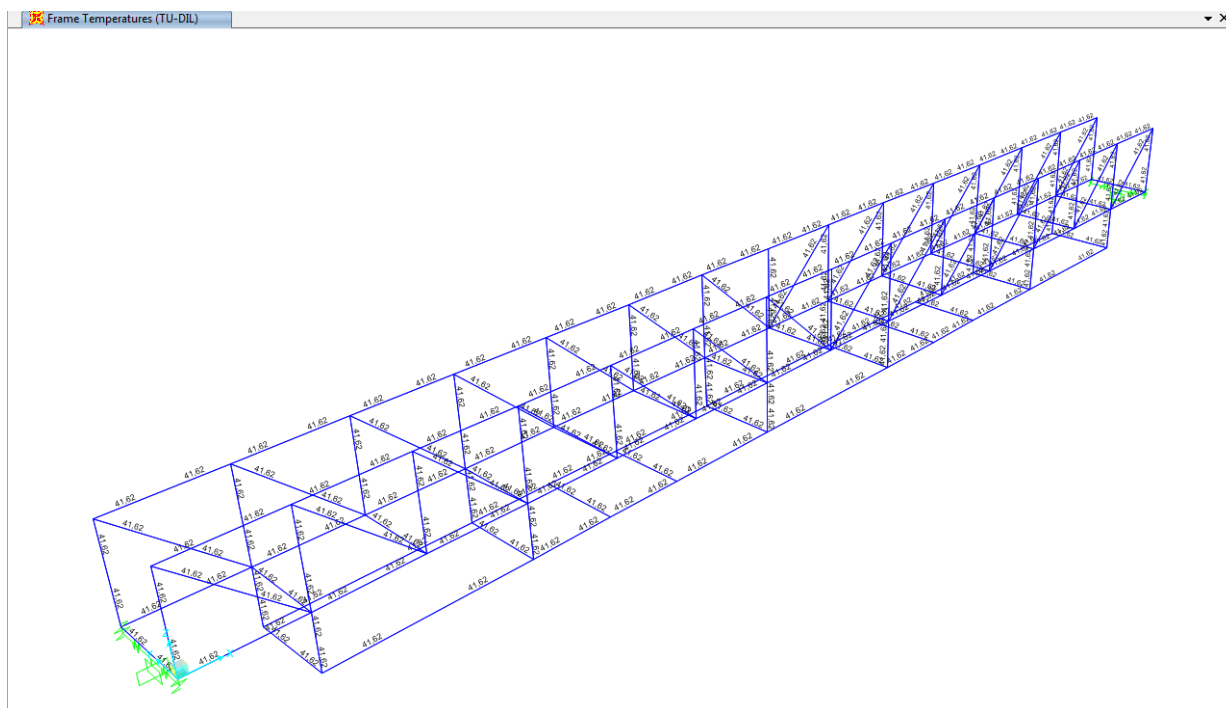
3.2.4.7 VIENTO LONGITUDINAL SIN SOBRECARGA



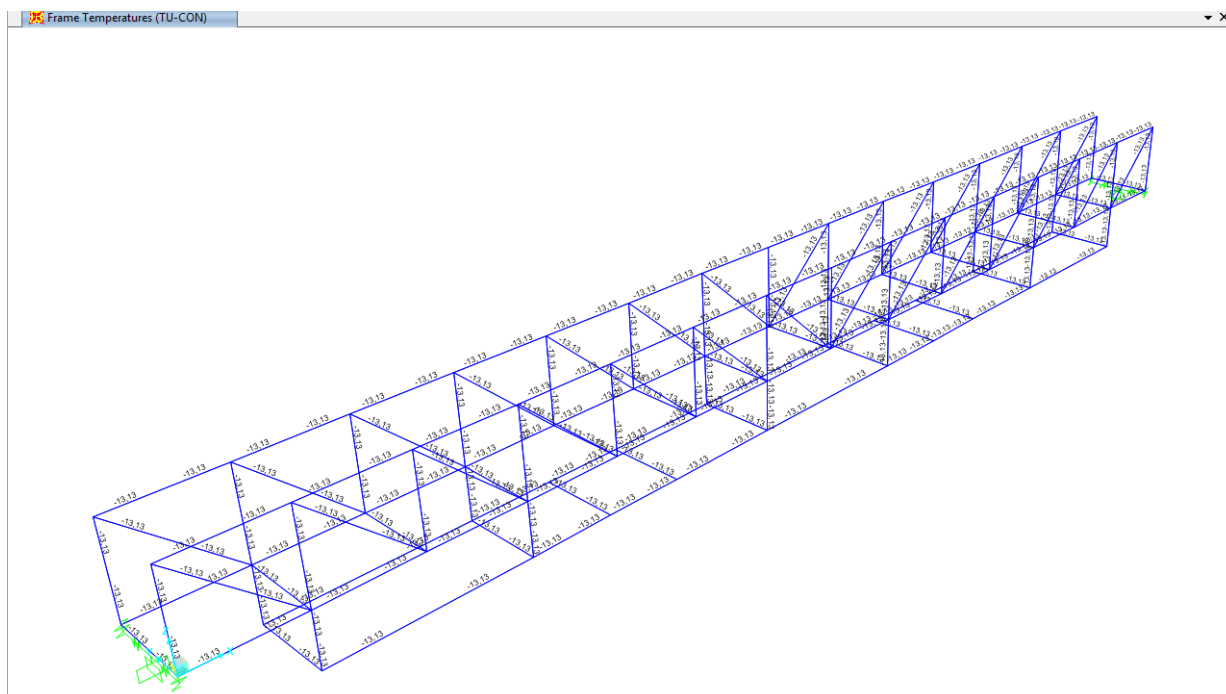
3.2.4.8 VIENTO LONGITUDINAL CON SOBRECARGA



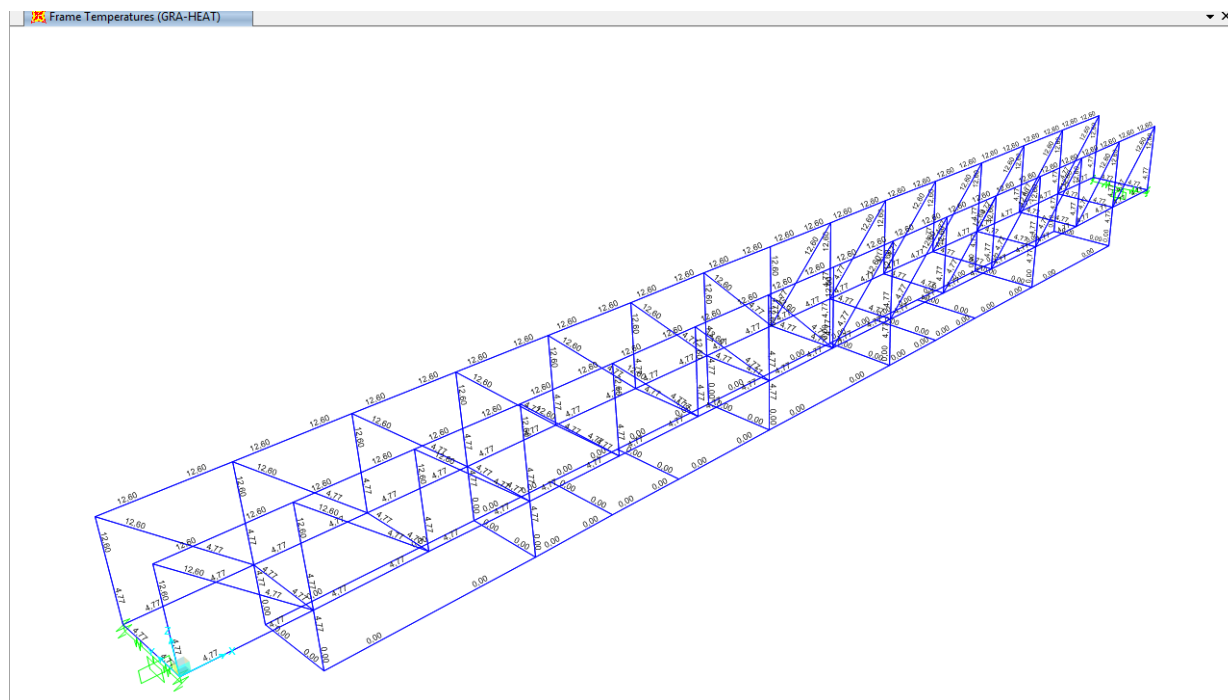
3.2.4.9 TEMPERATURA - DILATACIÓN



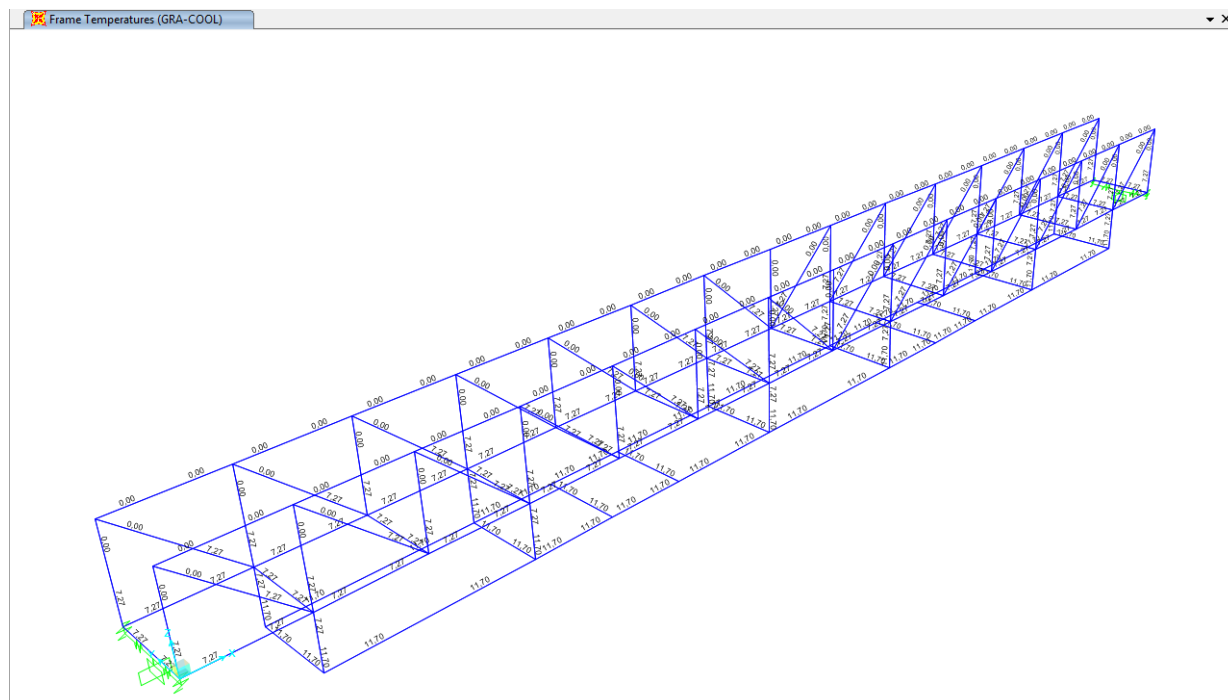
3.2.4.10 TEMPERATURA - CONTRACCIÓN



3.2.4.11 GRADIENTE TÉRMICO. CARA SUPERIOR.



3.2.4.12 GRADIENTE TÉRMICO. CARA INFERIOR.

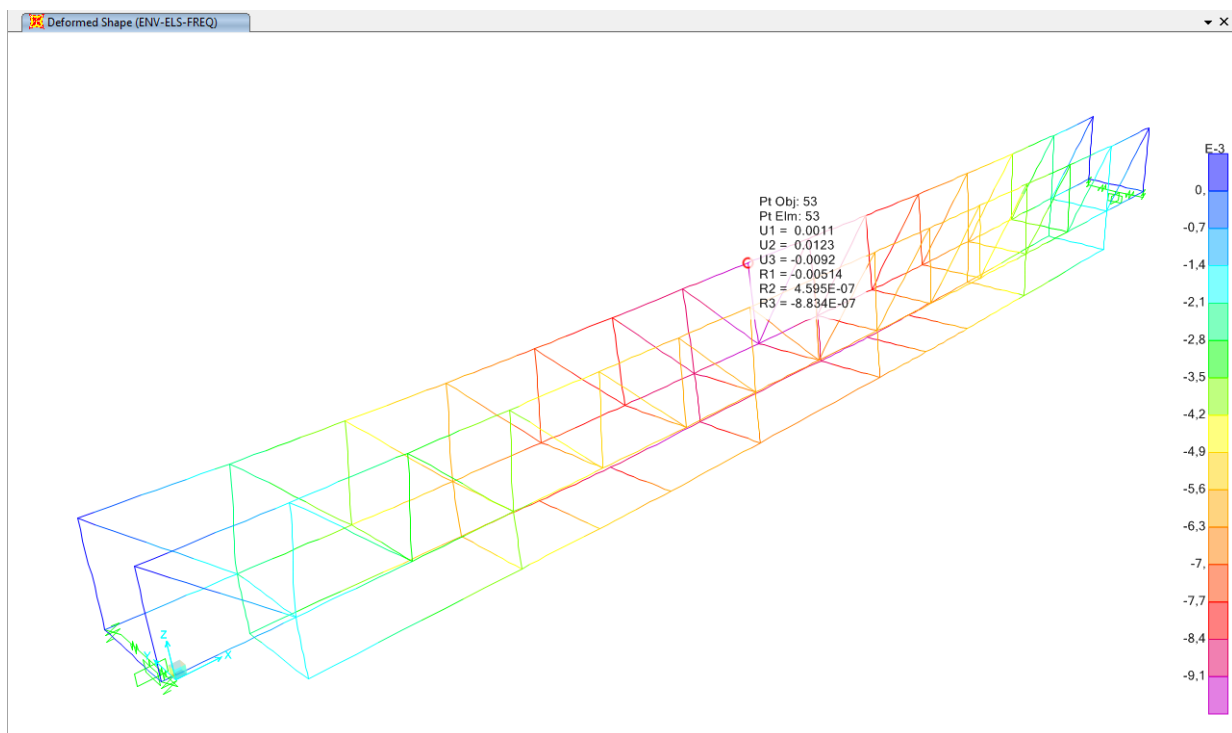


3.2.5 COMBINACIONES Y ENVOLENTES

Ver Apéndice 2.

3.3 ELS DEFORMACIONES

De acuerdo con el apartado 7.1.1 se debe verificar que la flecha máxima vertical correspondiente al valor frecuente no supera $L / 1200$									
L	16,9	m							
$L/1200$	0,0141	m							
δ_{adm}	14,0833	mm							
δ_{max}	0,0092	m							
	9,2	mm							OK, flecha max < flecha admisible

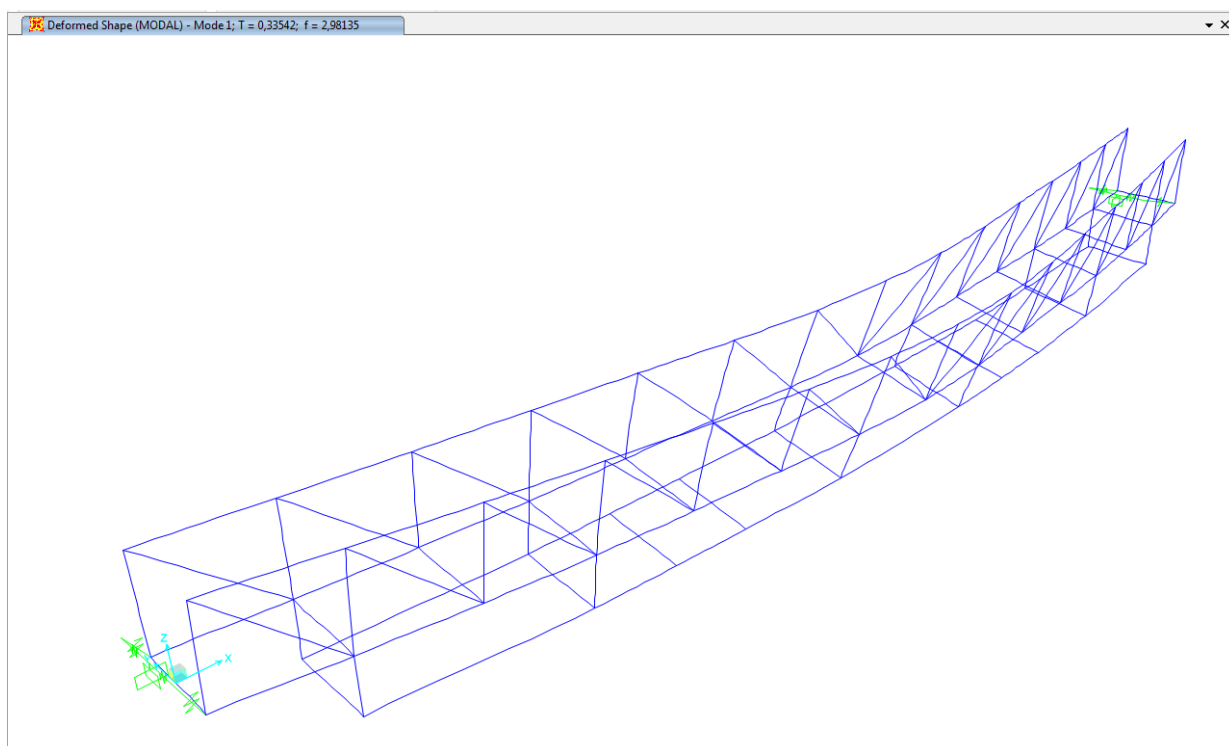


3.4 ELS VIBRACIONES

Se considera verificado el ELS de vibraciones en pasarelas peatonales si sus frecuencias naturales se sitúan fuera de:

Vibraciones verticales y longitudinales 1,25 a 4,6 Hz
Vibraciones laterales 0,5 a 1,2 Hz

	T (s)	f (Hz)	
Modo 1	0,33542	2,98	vibración horizontal



3.5 NEOPRENOS

	Fz max	Fzmin	Fx	Fy
PP	14,55	14,55	0,16	0
CM-TUBERIA	6,4	6,4	0,12	0
CM-TRAMEX Y REJILLA	6,68	6,68	0,1	0
SCU	35,38	8,8	2,89	0
VTSSC	5,54	-5,54	0,00	8,54
VTCSC	7,38	-7,38	0,00	12,79
VV +	-1,63	-4,90	0,00	0,00
VV -	4,90	1,63	0,00	0,00
VLSSC	0,00	0,00	3,99	0,00
VLCSC	0,00	0,00	5,98	0,00

	ux	uy	iy	ix
TU-DIL	0,0055	0,000347	0,0000174	0
TU-CON	0,0027	0,0001726	0,00000867	0
GRA-HEAT	0,000469	0,0000292	0,000677	2,59E-06
GRA-COOL	0,000709	0,0000446	0,000621	0,0000024

	Fzmax	Fzmin	Fx	Fy
Cpermanente CP	27,63	27,63	0,38	0
Cpermanente SC	27,63	27,63	0,38	0
VTCSC + VV	35,38	8,8	2,89	0
VLCSC	12,27	-12,27	0,00	12,79
CP+1xSCdominante+0,3xResto SC	0,00	0,00	5,98	0,00
Cpermanente VTSSC + VV	66,69	18,88	7,51	12,79
VLSSC	27,63	27,63	0,38	0,00
CP+1xSCdominante+0,3/0,4xResto SC	10,43	-10,43	0,00	8,54
	0,00	0,00	3,99	0,00
	38,06	17,20	4,37	8,54

	ux	uy	iy	ix
TU + GRA	0,00621	0,00039	0,0006944	2,59E-06

Nmax	66,69	kN	Ux	0,00621
Nmin	17,20	kN	Uy	0,00039
Fx	7,51	kN	iy	0,0006944
Fy	12,79	kN	ix	2,59E-06

Geometría del neopreno

Glentas	0,9	N/mm2 (temperatura, fluencia y retracción)
Grápidas	1,8	N/mm2 (frenado, sismo)
a	120	mm, lado corto
b	100	mm, lado largo
h apoyo	19	mm, altura total del apoyo
rec sup	0	mm
rec inf	0	mm
e	2	mm, espesor de las chapas de acero
t	5	mm, espesor de la capa de elastómero
n	3,00	número de capas interiores de elastómero
T	15,00	mm, espesor total de elastómero
Denominación	120x100x3(5+2)	
kneop	568	N/mm2

Compresión

Reacción vertical máxima y mínima

Nmax	67	kN
Nmin	17,20	kN

Tensión media máxima y mínima

σ_{max}	5,56	N/mm2, tensión media	
	56,65	kg/cm2	OK, smed < 150 kg/cm2
σ_{min}	1,43	N/mm2, tensión media	
	14,61	kg/cm2	Hay que anclar el apoyo

Verificación de no desplazamiento

fmax	1,18		
fmax * Hmax	78,67	kN	
Hmax	12,79	kN	OK, Hmax < fmax x Hmax
fmin	0,21		
fmin * Hmin	3,54	kN	
Hmin	7,51	kN	Hay que anclar el apoyo

Tensiones tangenciales máximas y mínimas

S	5,45454545	factor de forma de la capa
τ_{nmax}	1,53	N/mm2
	15,58	kg/cm2
τ_{nmin}	0,39	N/mm2
	4,02	kg/cm2

Fuerzas y desplazamientos horizontales

Cargas lentas: fluencia, retracción, temperatura

u1x	0,00621	mm	u1y	0,00039	mm
tan γ_x	0,00041		tan γ_y	0,00003	
τ_{1x}	0,00037	N/mm2	τ_{1y}	0,00002	N/mm2
τ_{H1tot}	0,00037	Mpa			OK, th1tot < 0,5 G

Cargas rápidas: frenado, fuerza centrífuga, viento, choque vehículos, sismo

Fhor 2x	7,51	kN	Fhor 2y	12,79	kN
u2x	5,22	mm	u2y	8,88	mm
tan γ_{2x}	0,34790		tan γ_{2y}	0,59214	
τ_{2x}	0,62622	N/mm2	τ_{2y}	1,06586	N/mm2

Cargas lentas + Cargas rápidas

ux	5,225	mm	uy	8,883	mm
τ_x	0,31348	Mpa	τ_y	0,53295	Mpa
τ_{Htot}	0,61831	Mpa			OK, thtot < 0,7 G
0,7 G	0,63000	Mpa			

Giro

α_0	0,003000	rad	α_0	0,000000	rad
$\Theta_y = \Theta_y + \alpha_0$	0,003694	rad	Θ_x	0,000003	rad
$\tau_{\alpha x}$	0,022105	Mpa	$\tau_{\alpha y}$	0,000011	Mpa
k2	75,30		k2	75,30	
My	292999	Nmm	My	205	Nmm
$\tau_{\alpha tot}$	0,022105	Mpa			

Limitación de tensión tangencial total

$$\tau_{tot} = \tau_{nmax} + \tau_{Htot} + \tau_{\alpha tot} \quad 2,17 \quad \text{Mpa}$$

$$5G \quad 4,50 \quad \text{Mpa}$$

OK, $t_{tot} < 5G$

Condición de estabilidad

$$T \quad 15 \quad \text{mm}$$

$$a/10 \quad 12,00 \quad \text{mm}$$

$$a/5 \quad 24,00 \quad \text{mm}$$

OK, $a/10 < T < a/5$

Condición de no levantamiento

$$\alpha_{ty} \quad 0,000231 \quad \text{rad} \quad \alpha_{tx} \quad 0,000001 \quad \text{rad}$$

$$\alpha_{tymax(\sigma_{max})} \quad 0,005896 \quad \text{rad} \quad \alpha_{txmax(\sigma_{max})} \quad 0,008491 \quad \text{rad}$$

$$\alpha_{tymax(\sigma_{min})} \quad 0,001520 \quad \text{rad} \quad \alpha_{txmin(\sigma_{min})} \quad 0,002189 \quad \text{rad}$$

OK, $g_y < g_{y adm}$

OK, $g_x < g_{x adm}$

Espesor de zunchos

$$\sigma_{max} \quad 5,56 \quad \text{Mpa}$$

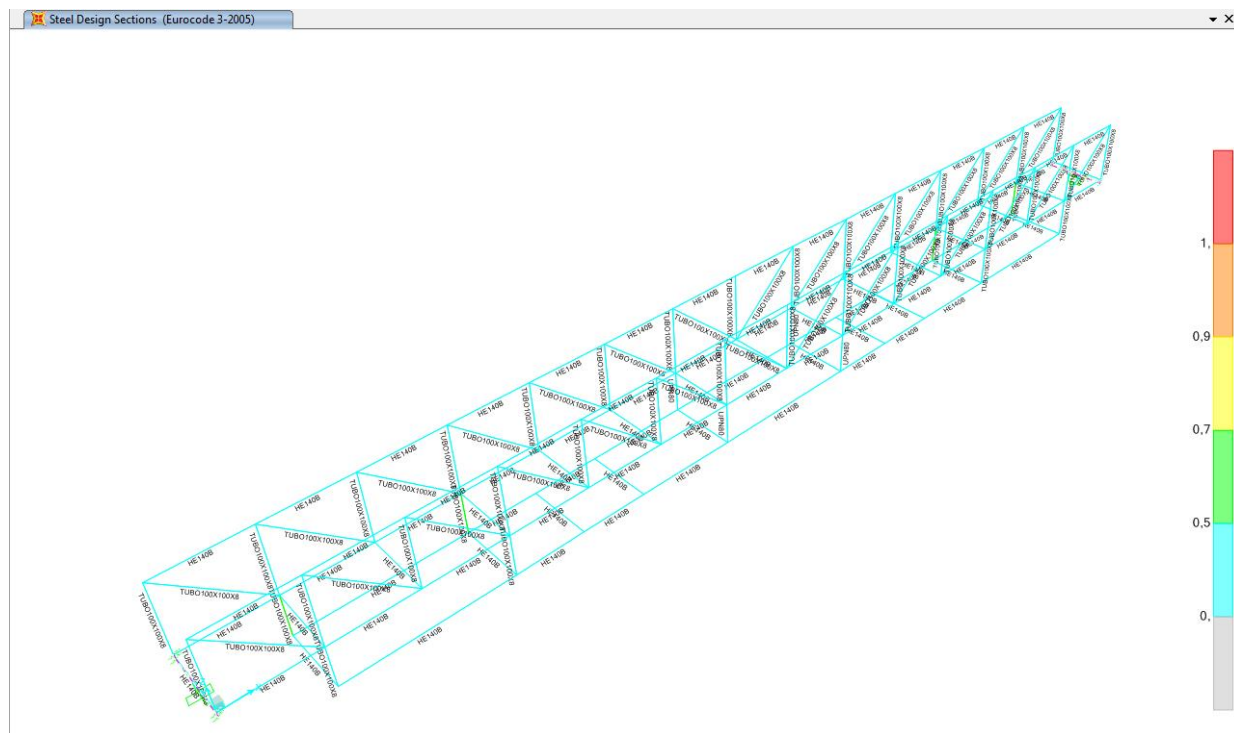
$$\sigma_{min} \quad 1,43 \quad \text{Mpa}$$

$$\sigma_e \quad 275 \quad \text{Mpa}$$

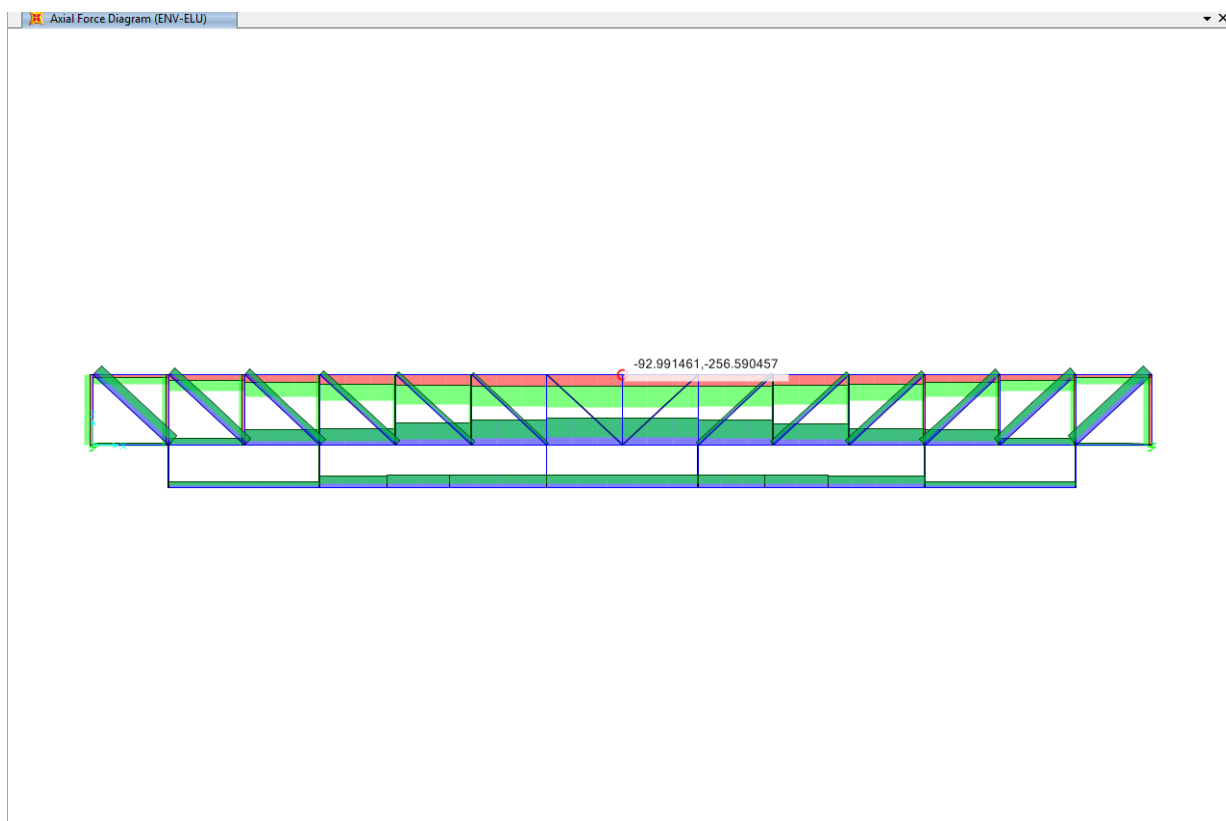
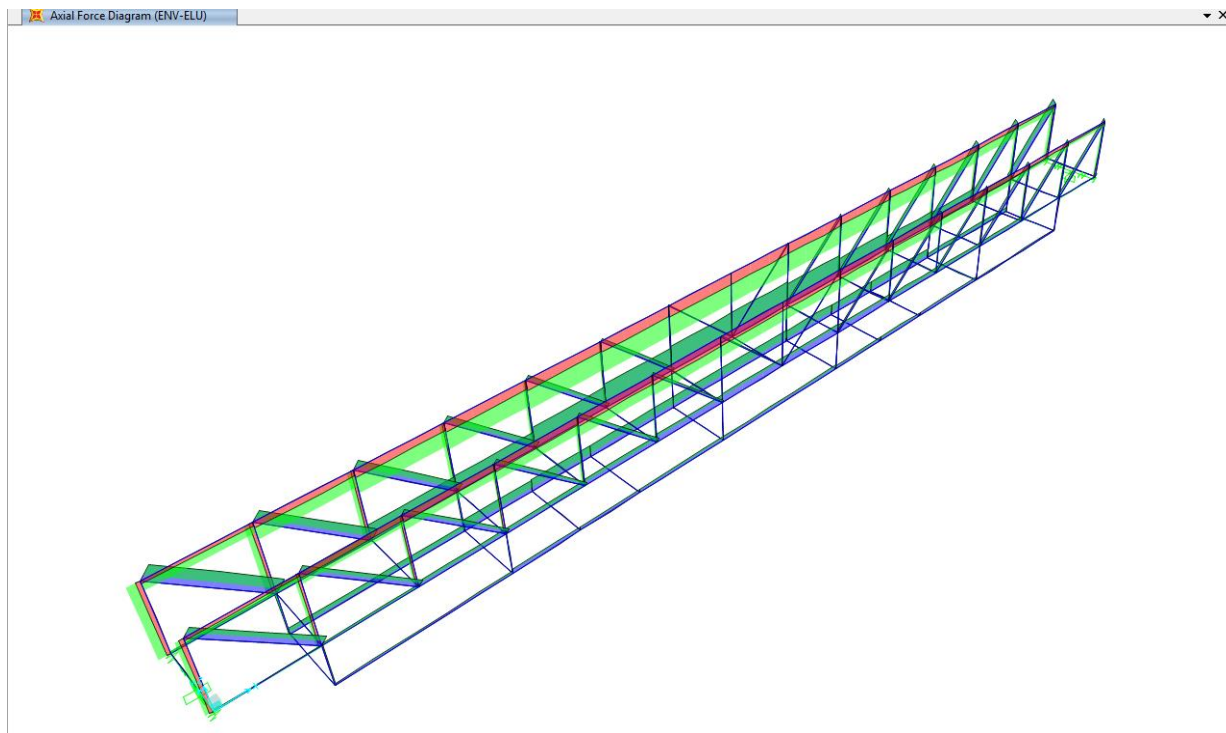
$$e_{min} \quad 0,445 \quad \text{mm}$$

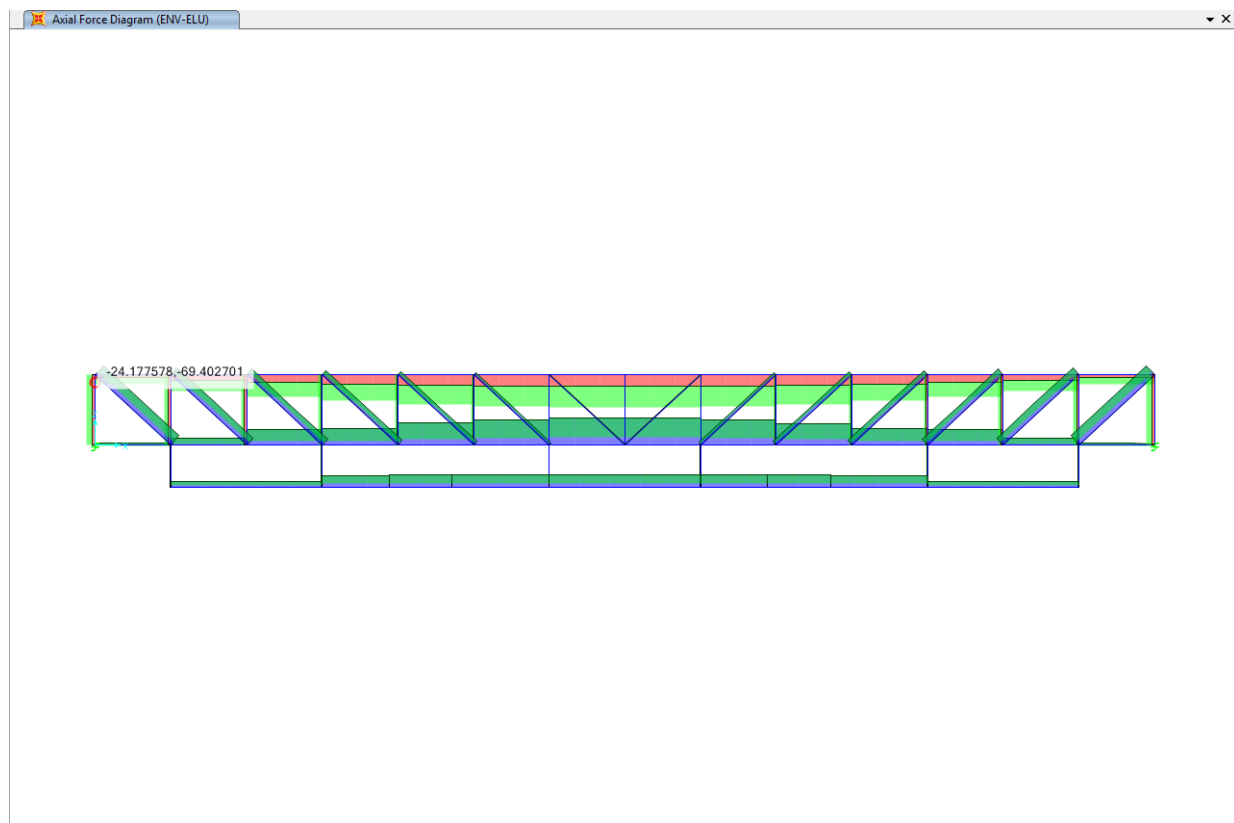
OK, $e > e_{min}$

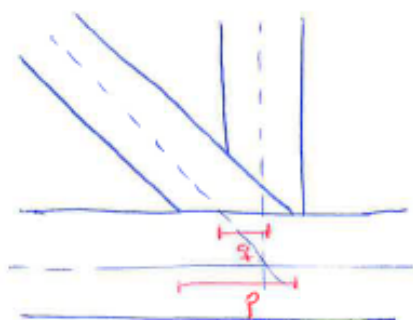
3.6 ELU – COMPROBACIÓN DE PERFILES



3.7 ELU – COMPROBACIÓN DE NUDOS







$N_{max\ diagonal} =$

$$\begin{array}{l} p = 14.75 \text{ cm} \\ q = 7.59 \text{ cm} \end{array} \quad \left| \quad \Delta w = \left(\frac{q}{p} \right) \cdot w = \frac{7.59}{14.75} \cdot w = 51.46 \% \right.$$

NED 140

$$\begin{array}{l} dw = 11.6 \text{ cm} \\ tw = 0.7 \text{ cm} \end{array} \quad \left| \quad \frac{dw}{tw} = \frac{11.6}{0.7} = 16.57 \right.$$

$$\varepsilon = 0.92$$

$$72\varepsilon = 66.24$$

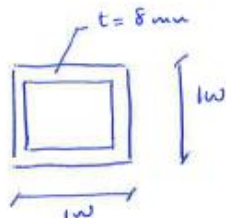
$$33\varepsilon = 30.36$$

$$\frac{36\varepsilon}{\alpha} = \frac{37.12}{\alpha} \xrightarrow{\alpha=0.5} 66.24$$

$$\frac{396\varepsilon}{13\alpha-1} = \frac{364.32}{13 \cdot 0.5 - 1} = \frac{364.32}{5.5} = 66.24$$

$$= \frac{364.32}{13 \cdot 1 - 1} = 30.36$$

CLOSE 1



$$\begin{array}{l} \text{Compl} \\ \text{o} \\ \text{TRACC.} \end{array} \left| \begin{array}{l} \frac{b_i}{t_i} = \frac{lw}{8} = 12.5 \leq 35 \quad \text{OK} \\ \frac{h_i}{t_i} = 12.5 \leq 35 \quad \text{OK} \end{array} \right.$$

$$\frac{h_i}{b_i} = \frac{100}{lw} = 1 \quad 0.5 \leq 1 \leq 2$$

$$\frac{b_o}{t_f} = \frac{140}{12} = 11.66 \Rightarrow \text{CASE 1}$$

$$\frac{b_i}{b_j} = \frac{lw}{lw} = 1 \geq 0.75 \quad \text{OK}$$

FOLIO DIAGONAL O MONITOREO

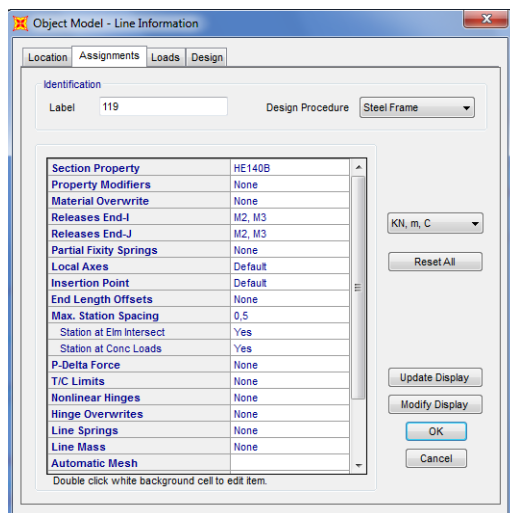
$$N_{brd} = f_{ti} \cdot t_i (b_i + b_{eov} + 2lw - 4t_i) / \gamma_{ms}$$

$$b_{eov} = \frac{10}{b_j/t_j} \cdot \frac{f_{tj} \cdot t_j}{f_{ti} \cdot t_i} \cdot b_i = \frac{10}{\frac{100}{8}} \cdot \frac{235 \cdot 8}{235 \cdot 8} \cdot \frac{100}{8} =$$

$$= 80 \quad \leq b_i = 100 \Rightarrow b_{eov} = 80$$

$$\begin{aligned} N_{brd} &= 275 \cdot 8 (100 + 80 + 2 \cdot 100 - 4 \cdot 8) / 1 = \\ &= 275 \cdot 8 (180 + 200 - 32) = 275 \cdot 8 \cdot 348 = 765600 \text{ N} = \\ &= 765 \text{ kN} \end{aligned}$$

3.8 EMBROCHALAMIENTO



Cargas

q HEB140	33,7	kg/m, peso por metro lineal de perfil
L	1,2	m, longitud del perfil
	0,04044	T, peso total
	0,4044	kN, peso total
R HEB140	0,2022	kN, reacción
P	10	kN, carga puntual para comprobaciones locales
R P	10	kN, la peor posición es justo encima
γ	1,5	
Rsd	15,3033	kN

Materiales

Tornillos

M	12	
Calidad	8.8	
A	0,843	cm ²
f _u	800	Mpa
f _y	640	Mpa

Placas

f _y	275	Mpa
f _u	410	MPa
γ_{m0}	1,25	

Tornillos que unen los ángulos del brochal

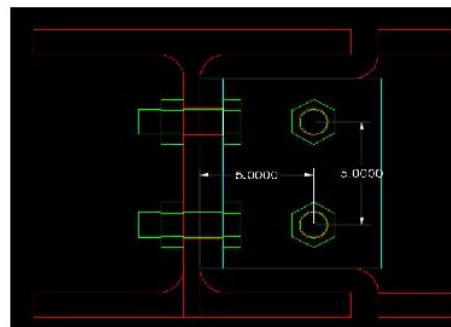
Cortante por tornillo

nf	2	número de filas
nc	1	número de columnas
ntot	2	
e1	50	mm, eje tornillo a cara de viga principal
s ver	50	mm, distancia vertical
Vsd	7651,65	N / tornillo, por cortante
Hsd	15303,30	N / tornillo, por flexión
R1sd	17109,61	N / tornillo, por cortante y flexión

Fvrd

n	2	
γ_{m2}	1,25	
Fvrd	53952	N

OK, Fvrd > R1sd



Tornillos que unen los ángulos a la viga principal

n	2	ud
nf	2	número de filas
nc	1	número de columnas
ntot	4	
s ver	50	mm, distancia en vertical
Vsd	3825,825	N/ tornillo, debido al cortante
e2	50	mm
twb	7	mm, espesor de alma
e2+ twb/2	53,5	mm
Msd	409363,275	Nmm
Hsd	8187,2655	N
R2sd	9,04	kN
Fvrd		
n	1	
γ_{m2}	1,25	
Fvrd	13,8252	kN

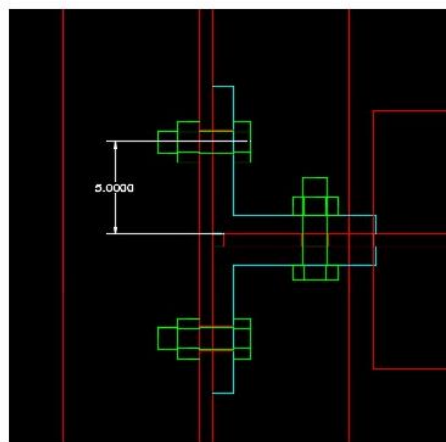
OK, Fvrd > R2sd

Comprobación de casquillos en ángulo

Se considera la sección neta del casquillo en la línea de los tornillos

Rsd	15,3033	kN
e3	0,05	m
Msd	0,765165	kNm
n ángulos	2	ud, número de angulares
h ángulos	90	mm, altura del angulo
b ángulos	10	mm, espesor del ángulo
n holes	2	ud
ϕ hole	13	mm
s holes	50	mm
Inercia		
Ib	1215000	mm4, inercia bruta de los angulares
Ia	332323,3333	mm4, inercia de los taladros
Iy	882676,6667	mm4, inercia neta
y max	45	mm
W	19615,04	mm3
σ_{sd}	39,01	N/mm2
f_y/γ_{m2}	220	N/mm2
γ_{m2}	1,25	

OK



Comprobación de la sección debilitada del brochal por pérdida de las alas

Msd	765165	Nmm
tw	7	mm, espesor del alma
hw	90	mm, altura del alma
n holes	2	ud
Φ hole	13	mm
s holes	50	mm
Inercia		
Ib	425250	mm4, inercia bruta del alma recortada
Ia	116313,1667	mm4, inercia de los taladros
Iy	308936,8333	mm4, inercia neta
y max	45	mm
W	6865,26	mm3
σsd	111,45	N/mm2
fy/γm2	220	N/mm2
γm2	1,25	

OK

Comprobación del desgarro del alma

Área bruta

L1	20	mm
Lv	50	mm
L3	20	mm
t	7	mm
A bruta	630	mm2
γmo	1,05	
Fvrd	95262,79442	N

Área Neta

n	2	
do1	13	mm
nxdo1	26	mm
Anet	448	mm2
γm2	1,25	
Fvrd	84838,15796	N

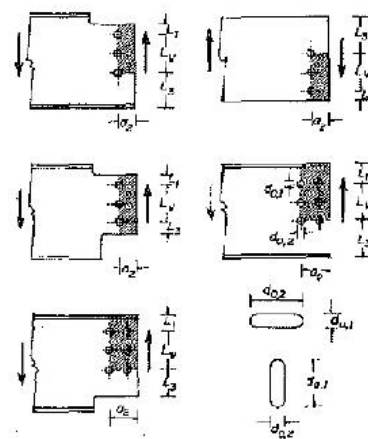
Área efectiva

a2	45	mm
do2	13	mm
k	0,5	
fy	275	Mpa
fu	410	Mpa
L2	57,40	mm
Aeff	891,8	mm2
γmo	1,05	
Fvrd	134849,7779	N

OK

OK

OK



3.9 ESTRIBO 1.A

3.9.1 ENVOLVENTES ELS-CHK Y ELU

TABLE: Joint Reactions									
Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2	M3
Text	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
66	ENV-ELS-CHK	Combination	Max F1	10,991	-5,124	51,396	4,557	0,769	-0,030
66	ENV-ELS-CHK	Combination	Min F1	-14,071	-5,040	69,069	8,384	-0,985	-0,172
66	ENV-ELS-CHK	Combination	Max F2	-1,144	0,000	51,396	2,453	-0,080	-0,030
66	ENV-ELS-CHK	Combination	Min F2	5,096	-30,620	69,069	17,923	0,357	-0,172
66	ENV-ELS-CHK	Combination	Max F3	-0,270	-20,274	95,580	20,141	-0,019	-0,384
66	ENV-ELS-CHK	Combination	Min F3	3,216	-17,080	44,866	11,183	0,225	-0,030
66	ENV-ELS-CHK	Combination	Max M1	-2,793	-20,274	93,621	20,656	-0,195	-0,384
66	ENV-ELS-CHK	Combination	Min M1	2,521	0,000	51,396	2,453	0,176	-0,030
66	ENV-ELS-CHK	Combination	Max M2	10,991	-5,124	51,396	4,557	0,769	-0,030
66	ENV-ELS-CHK	Combination	Min M2	-14,071	-5,040	69,069	8,384	-0,985	-0,172
66	ENV-ELS-CHK	Combination	Max M3	6,620	-17,080	51,396	9,466	0,463	-0,030
66	ENV-ELS-CHK	Combination	Min M3	-4,154	-12,600	95,580	17,279	-0,291	-0,384

TABLE: Joint Reactions									
Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2	M3
Text	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
66	ENV-ELU	Combination	Max F1	16,387	-7,686	69,384	6,468	1,147	-0,041
66	ENV-ELU	Combination	Min F1	-21,212	-6,804	75,255	10,459	-1,485	-0,221
66	ENV-ELU	Combination	Max F2	-1,816	0,000	69,384	3,312	-0,127	-0,041
66	ENV-ELU	Combination	Min F2	7,538	-45,174	75,255	24,768	0,528	-0,221
66	ENV-ELU	Combination	Max F3	0,066	-17,010	129,033	23,326	0,005	-0,518
66	ENV-ELU	Combination	Min F3	4,491	-25,620	41,601	15,547	0,314	-0,030
66	ENV-ELU	Combination	Max M1	-3,718	-28,521	126,094	28,392	-0,260	-0,518
66	ENV-ELU	Combination	Min M1	0,900	0,000	51,396	2,453	0,063	-0,030
66	ENV-ELU	Combination	Max M2	16,387	-7,686	69,384	6,468	1,147	-0,041
66	ENV-ELU	Combination	Min M2	-21,212	-6,804	75,255	10,459	-1,485	-0,221
66	ENV-ELU	Combination	Max M3	9,595	-25,620	51,396	12,972	0,672	-0,030
66	ENV-ELU	Combination	Min M3	-5,760	-17,010	129,033	23,326	-0,403	-0,518

3.9.2 CALCULO DE TENSIONES EN ELS

Geometría de la zapata																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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3.9.3 CALCULO DE TENSIONES EN ELU

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3.9.4 MOMENTO FLECTOR EN ELS Y ELS

Momento en ELS			
qs max	1,62	kg/cm2	
	161,75	kN/m2	
B	1,35	m	
L	1,4	m	
Mserv	39,63	kNm/m	
Momento en ELU			
qd elu	2,22	kg/cm2	
	221,71	kN/m2	
B	1,35	m	
L	1,4	m	
Melu	54,32	kNm/m	

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección
ZAPATA

Definición específica del armado

nº de capas 1
φ [mm] 25

Ambiente Exposiciones
I Qa Qb Qc H F E

Recubrimiento de la armadura longitudinal
c [mm] 45

Solicitación
Flexión simple
Tracción simple

Mk [kN·m] 40

Separación media entre fisuras s_m [mm] 125.0
Deformación media de las armaduras ϵ_{sm} [‰] 0.15
Tensión en las armaduras en el instante de fisuración del hormigón σ_{sr} [MPa] 51.8
Tensión en las armaduras en servicio σ_s [MPa] 54.3

Abertura característica de fisura w_k [mm] 0.03

Valores máximos de la abertura de fisura

Clase de exposición	w max [mm]	
	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2 ¹
IIIa, IIIb, IV, F	0.2	Descompresión
IIIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TN1. Flexión simple]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección
ESTRIBO1

Elemento estructural
Viga
Losas
Muro

Comprobación Dimensionamiento Diagrama de Flexión

SECCIÓN DEFORMACIONES · 10⁻³ TENSIONES MPa

Plano de deformación de agotamiento y Mu

x [m] 0.074 $\epsilon_s \cdot 10^{-3}$ 3.5 Mu [kN·m] 232.2
1/t [1/m] 47.0 $\epsilon_i \cdot 10^{-3}$ -5.9

Deformación y tensión de armaduras

Profundidad (m)	Armadura (cm²)	Deformación · 10 ⁻³	Tensión (MPa)
0.050	49.0	1.1	-229.7
0.150	49.0	-3.5	434.8

A sup. (cm²) 49.0
A inf. (cm²) 49.0

3.9.5 DESLIZAMIENTO

A	1,4	m					
B	1,35	m					
				FX	FY	Fhor	FZ
				KN	KN		KN
66	ENV-ELU	Combination	Max F1	-14,53	10,80	18,10	-98,60
66	ENV-ELU	Combination	Min F1	22,14	2,44	22,28	-104,47
66	ENV-ELU	Combination	Max F2	1,78	-0,36	1,82	-98,60
66	ENV-ELU	Combination	Min F2	1,62	45,77	45,80	-104,47
66	ENV-ELU	Combination	Max F3	3,33	16,68	17,01	-158,25
66	ENV-ELU	Combination	Min F3	0,71	26,00	26,01	-70,81
66	ENV-ELU	Combination	Max M1	9,33	27,21	28,76	-155,31
66	ENV-ELU	Combination	Min M1	-0,88	0,18	0,90	-80,61
66	ENV-ELU	Combination	Max M2	-14,53	10,80	18,10	-98,60
66	ENV-ELU	Combination	Min M2	22,14	2,44	22,28	-104,47
66	ENV-ELU	Combination	Max M3	-4,30	27,02	27,36	-80,61
66	ENV-ELU	Combination	Min M3	9,04	15,52	17,96	-158,25
			MAX	22,14	45,77	45,80	-70,81
			MIN	-14,53	-0,36	0,90	-158,25
Fhor max	45,80	kN					
A	1,89	m2					
$\tau_{\sigma d}$	24,23	kN/m2					
	0,0242	Mpa					

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [T5. Rasante entre juntas de hormigón]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Tipo de Sección
☐ Con armadura transversal
☒ Sin armadura transversal

Hormigón más débil de la junta
 HA-25

Rugosidad baja
☒ Rugosidad Intencional
☐ Rugosidad alta

β 0.20

p [m] 1.6
 L [m] 3

Inclinación de la armadura
 α 90.0

$\tau_{r,d}$ [MPa] 0.0
 Nd [kN] 0.0
 σ_{cd} [MPa] 0.0

Comprobación | Dimensionamiento

Esfuerzo rasante resistente
 $\tau_{r,u}$ [MPa] 0.24

3.9.6 VUELCO

[illegible]

3.10 ESTRIBO 2.A

3.10.1 ENVOLVENTES ELS-CHK Y ELU

TABLE: Joint Reactions

Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2	M3
Text	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
72	ENV-ELS-CHK	Combination	Max F1	1,424	-5,124	50,905	4,412	0,100	0,031
72	ENV-ELS-CHK	Combination	Min F1	-20,792	-5,040	68,578	8,244	-1,455	0,172
72	ENV-ELS-CHK	Combination	Max F2	-14,600	0,000	50,905	2,308	-1,022	0,031
72	ENV-ELS-CHK	Combination	Min F2	-1,626	-30,620	68,578	17,784	-0,114	0,172
72	ENV-ELS-CHK	Combination	Max F3	-5,943	-20,274	95,089	20,010	-0,416	0,384
72	ENV-ELS-CHK	Combination	Min F3	-6,620	-17,080	44,375	11,037	-0,463	0,031
72	ENV-ELS-CHK	Combination	Max M1	-5,943	-20,274	93,130	20,525	-0,416	0,384
72	ENV-ELS-CHK	Combination	Min M1	-7,309	0,000	50,905	2,308	-0,512	0,031
72	ENV-ELS-CHK	Combination	Max M2	1,424	-5,124	50,905	4,412	0,100	0,031
72	ENV-ELS-CHK	Combination	Min M2	-20,792	-5,040	68,578	8,244	-1,455	0,172
72	ENV-ELS-CHK	Combination	Max M3	-11,788	-20,274	95,089	20,010	-0,825	0,384
72	ENV-ELS-CHK	Combination	Min M3	-0,970	0,000	50,905	2,308	-0,068	0,031

TABLE: Joint Reactions

Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2	M3
Text	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
72	ENV-ELU	Combination	Max F1	2,236	-7,686	68,721	6,271	0,157	0,042
72	ENV-ELU	Combination	Min F1	-30,793	-6,804	92,581	11,129	-2,156	0,232
72	ENV-ELU	Combination	Max F2	-21,565	0,000	50,905	2,308	-1,510	0,031
72	ENV-ELU	Combination	Min F2	-2,043	-45,174	92,581	25,439	-0,143	0,232
72	ENV-ELU	Combination	Max F3	-8,076	-28,521	128,370	27,443	-0,565	0,518
72	ENV-ELU	Combination	Min F3	-9,595	-25,620	41,110	15,402	-0,672	0,031
72	ENV-ELU	Combination	Max M1	-8,076	-28,521	125,431	28,215	-0,565	0,518
72	ENV-ELU	Combination	Min M1	-8,082	0,000	50,905	2,308	-0,566	0,031
72	ENV-ELU	Combination	Max M2	2,236	-7,686	68,721	6,271	0,157	0,042
72	ENV-ELU	Combination	Min M2	-30,793	-6,804	92,581	11,129	-2,156	0,232
72	ENV-ELU	Combination	Max M3	-16,843	-28,521	128,370	27,443	-1,179	0,518
72	ENV-ELU	Combination	Min M3	-2,376	0,000	50,905	2,308	-0,166	0,031

3.10.2 CALCULO DE TENSIONES EN ELS

[illegible]

3.10.3 CALCULO DE TENSIONES EN ELU

Geometría de la zapata																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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3.10.4 MOMENTO FLECTOR EN ELS Y ELU

Momento en ELS			
qs max	1,86	kg/cm2	
	185,54	kN/m2	
B	1,25	m	
L	1,3	m	
Mserv	39,19	kNm/m	
Momento en ELU			
qd elu	2,58	kg/cm2	
	257,69	kN/m2	
B	1,25	m	
L	1,3	m	
Melu	54,44	kNm/m	

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: ZAPATA

Definición específica del armado

nº de capas: 1
φ [mm]: 25

Separación media entre fisuras: s_m [mm] 125.0
Deformación media de las armaduras: ϵ_{sm} [‰] 0.15
Tensión en las armaduras en el instante de fisuración del hormigón: σ_{sf} [MPa] 51.8
Tensión en las armaduras en servicio: σ_s [MPa] 54.3
Abertura característica de fisura: w_k [mm] 0.03

Valores máximos de la abertura de fisura

Clase de exposición	w max [mm]	
	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2 ¹
IIIa, IIIb, IV, F	0.2	Descompresión
IIIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

Recubrimiento de la armadura longitudinal: c [mm] 45
Solicitación: ☒ Flexión simple ☐ Tracción simple
Mk [kN-m] 40

A_s [cm²] 49.1
A_{seficc} [cm²] 587.5
capa n barras sv [mm]
1 10 57.5

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TN1. Flexión simple]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: ESTRIBO1

Comprobación | Dimensionamiento | Diagrama de Flexión

SECCIÓN DEFORMACIONES · 10⁻³ TENSIONES MPa

Plano de deformación de agotamiento y Mu

x [m] 0.074 $\epsilon_s \cdot 10^{-3}$ 3.5 Mu [kN-m] 232.2
1/h [1/m] 47.0 $\epsilon_s \cdot 10^{-3}$ -5.9

Deformación y tensión de armaduras

Profundidad (m)	Armadura (cm²)	Deformación · 10 ⁻³	Tensión [MPa]
0.050	49.0	1.1	-229.7
0.150	49.0	-3.5	434.8

A sup. (cm²) 49.0
A inf. (cm²) 49.0

3.10.5 DESLIZAMIENTO

A	1,3	m					
B	1,25	m					
				FX	FY	Fhor	FZ
				KN	KN		KN
72	ENV-ELU	Combination	Max F1	-3,30	7,29	8,00	-92,93
72	ENV-ELU	Combination	Min F1	29,52	11,09	31,54	-116,79
72	ENV-ELU	Combination	Max F2	21,35	3,05	21,57	-75,11
72	ENV-ELU	Combination	Min F2	-4,37	45,01	45,22	-116,79
72	ENV-ELU	Combination	Max F3	3,96	29,38	29,64	-152,58
72	ENV-ELU	Combination	Min F3	5,87	26,72	27,36	-65,32
72	ENV-ELU	Combination	Max M1	3,96	29,38	29,64	-149,64
72	ENV-ELU	Combination	Min M1	8,00	1,14	8,08	-75,11
72	ENV-ELU	Combination	Max M2	-3,30	7,29	8,00	-92,93
72	ENV-ELU	Combination	Min M2	29,52	11,09	31,54	-116,79
72	ENV-ELU	Combination	Max M3	12,64	30,62	33,12	-152,58
72	ENV-ELU	Combination	Min M3	2,35	0,34	2,38	-75,11
			MAX	29,52	45,01	45,22	-65,32
			MIN	-4,37	0,34	2,38	-152,58
Fhor max	45,22	kN					
A	1,63	m2					
$\tau \sigma d$	27,83	kN/m2					
	0,0278	Mpa					

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [T15. Rasante entre juntas de hormigón]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Tipo de Sección:
☐ Con armadura transversal
☒ Sin armadura transversal

Hormigón más débil de la junta
 HA-25

Rugosidad baja
☒ Rugosidad Intencional
☐ Rugosidad alta

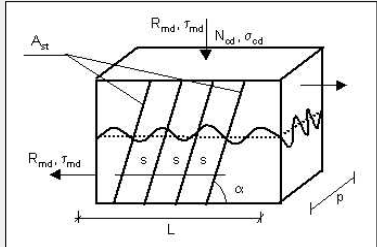
β 0.20

p [m] 1.6
 L [m] 3

Inclinación de la armadura
 α 90.0

$\tau_{r,d}$ [MPa] 0.0
 N_d [kN] 0.0
 σ_{cd} [MPa] 0.0

Comprobación | Dimensionamiento



Esfuerzo rasante resistente
 $\tau_{r,u}$ [MPa] 0.24

3.10.6 VUELCO

[illegible]

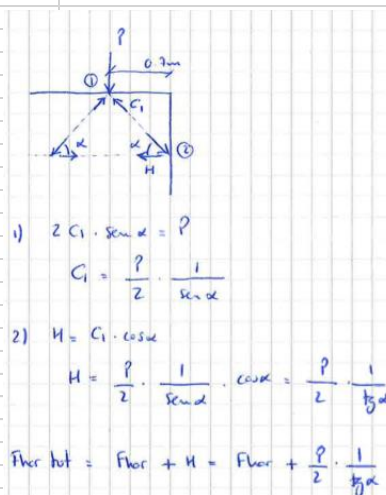
3.11 REFUERZO DE AZUD MEDIANTE ANCLAJES

En el apartado 6.2 del “Estudio geotécnico para el proyecto de renovación de la conducción de la La Jara. Presa del Tenebroso – Depósito de La Corta” dice lo siguiente:

“Las recomendaciones que se establecen para la estabilidad perimetral de las zapatas apoyadas sobre el azud deben considerarse obligadas o preceptivas, tanto en el encaje geométrico de la zapata sobre el cuerpo del azud como especialmente en lo referente al refuerzo con zunchos metálicos transversales y anclajes pasivos frontales con longitudes de al menos 2 m una vez superada la zapata, siendo válido considerar adherencias de al menos 3 kp/cm², siguiendo los umbrales mínimos que se fijan en los ábacos de Bustamante para el caso de roca alterada y fragmentada”.

Para el cálculo de los anclajes longitudinales se va a hacer el siguiente supuesto: el anclaje tiene que recoger la suma de la fuerza horizontal más la componente horizontal para el equilibrio de la carga vertical. En la siguiente imagen se muestra el cálculo de la componente horizontal, la vertical y el reparto realizado a 45º:

Cargas por apoyo		
	Vertical	Horizontal
Peso propio	28.21	0.00
Tubería	5.78	0.00
Tramex	6.93	0.00
Zapata	21.53	0.00
Sobrecarga Uniforme	44.36	2.95
Viento transversal	0.00	0.00
Viento vertical	1.96	0.00
Temperatura	0.00	40.35
Coeficientes ELU		
	Vertical	Horizontal
Peso propio	1.35	1.35
Tubería	1.35	1.35
Tramex	1.35	1.35
Zapata	1.35	1.35
Sobrecarga Uniforme	1.50	1.5
Viento transversal (1,5 x 0,3)	0.45	0.45
Viento vertical (1,5 x 0,3)	0.45	0.45
Temperatura (1,5 x 0,6)	0.9	0.9
Resultante y fuerza horizontal total		
	Vertical	Horizontal
Peso propio	38.09	0.00
Tubería	7.80	0.00
Tramex	9.36	0.00
Zapata	29.06	0.00
Sobrecarga Uniforme	66.54	4.43
Viento transversal	0.00	0.00
Viento vertical	0.88	0.00
Temperatura	0.00	36.31
Ftotal	151.74	40.74
Fv	151.74	kN
Fh	40.74	kN
α	45	
Fhor total = Fh + 0,5 Fv / tg α	116.61	kN



El cálculo del anclaje longitudinal se realiza según lo indicado en la “Guía para el diseño y ejecución de anclajes al terreno en obras de carretera”:

CALCULO DE ANCLAJE				
L libre	0	m		
L bulbo	3.5	m		
Ltotal	3.5	m		
a) Carga nominal mayorada				
Pn	116.61	kN		
Carga	Carga Mayorada			
F1	1			
Pnd	116.61	kN		
	116605.42	N		
b) Comprobación de la tensión admisible del acero				
Barra tipo	Tipo Gewi - izq			
ϕ	16	mm		
At	201.06	mm ²		
fyk	500	N/mm ² , límite elástico		
fyk / 1,15	434.78	N/mm ²		
fpk	550	N/mm ² , límite de rotura		
fpk / 1,3	423.08	N/mm ²		
nt	8	ud, número de bulones		
Pnd/nt	14575.68	N/ud, carga por bulón		
(Pnd/nt) / At	72.49	N/mm ² , tensión en bulón		OK, (Pnd/nt)/At < fyk/1,15 OK, (Pnd/nt)/At < fpk/1,3
Carga en límite elástico	101	kN, según catálogo		
Carga en límite de rotura	111	kN, según catálogo		
c) Comprobación del deslizamiento del tirante en la lechada, dentro del bulbo				
Pnd/nt	14575.68	N/ud, carga por bulón		
pt	50.27	mm, perímetro		
At	201.06	mm ²		
Lb	3500	mm, longitud de cálculo del bulbo		
τ_{lim}	4.02	N/mm ² , adherencia límite entre tirante y lechada		
fck	10	N/mm ² resistencia característica de la lechada		
(Pnd/nt)/(Lb x pt)	0.08	N/mm ²		
$\tau_{lim} / 1,2$	3.35	N/mm ²		OK, (Pnd/nt)/ (Lb x pt) < $\tau_{lim} / 1,2$
d) Comprobación de la seguridad frente al arrancamiento del bulbo				
Pnd/nt	14575.68	N		
Dn	85	mm, diámetro nominal del bulbo		
Lb	3500	mm, longitud de cálculo del bulbo		
a adm	0.3	N/mm ² , adherencia admisible frente al arrancamiento del terreno		
(Pnd/nt) / (pi x Dn x Lb)	0.02	N/mm ²		OK, (Pnd/nt)/ (pi x Dn x Lb) < a adm

En sentido transversal se van a disponer los mismos pernos.

3.12 DIMENSIONES ADOPTADAS

Tras los cálculos realizados se adoptan las siguientes dimensiones para la pasarela sobre la escotadura:

- Celosía de 16,9 m de longitud, canto 1,24 m y montantes separados 1,20 m entre ejes.
 - o Cordones superiores e inferiores formados por cordones HEB 140
 - o Diagonales y montantes formados por perfiles tubulares cuadrados de 100 x 100 x 8 mm
 - o Perfiles transversales inferiores formados por perfiles HEB 140.
 - o Trámex antidelizante de apoyo sobre los cordones inferiores de pletinas de 30 x 3 mm en malla de 20 x 20 mm.
 - o Para dar rigidez transversal a la estructura y permitir el acceso a la plataforma de apoyo de la tubería se diseñan dos tipos de uniones entre los perfiles transversales y los cordones inferiores. El primer tipo es una unión rígida mediante soldaduras a tope, y el segundo tipo es una unión atornillada articulada.
- Plataforma de apoyo de la tubería de 14,54 m de longitud, 1,19 m de ancho y 0,52 m de altura libre.
 - o 2 perfiles HEB 140 longitudinales y 10 perfiles HEB 140 transversales.
 - o La plataforma cuelga de la celosía mediante perfiles tubulares de 100 x 100 x 10 mm excepto en la zona de mayor desviación transversal de la tubería, donde los perfiles son UPN 80.
 - o Trámex antidelizante de apoyo sobre los cordones inferiores de pletinas de 30 x 3 mm en malla de 20 x 20 mm.
 - o Las uniones son rígidas.
- Estribo 1A: 1,35 x 1,4 x 0,665 m, con un cajeadado interior de 0,65 x 0,43 m que permite el paso de la tubería.
- Estribo 2A: 1,25 x 1,30 x 0,665 m, con un cajeadado interior de 0,65 x 0,43 m que permite el paso de la tubería.
- Refuerzo en azud en zona de apoyo de las zapatas: anclaje dywidag con resina sintética con barras roscadas a izquierdas $\phi 16$ en ambos sentidos del azud, 8 barras de 3,5 m de longitud en 4 filas separadas 0,40 m en sentido longitudinal y 12 barras en 3 filas intercaladas con las anteriores, de longitud igual al espesor del azud.

4 CÁLCULO DE LA PASARELA SOBRE EL CANAL DE DESCARGA

4.1 ACCIONES

CÁLCULO ACCIONES IAP 2011					
Proyecto: Azud Tenebroso					
1) Datos					
1.1) Datos generales					
	L =	11,50	m		Longitud total puente
	Btot =	1,19	m		Anchura total de la pasarela
	Bpeat =	1,05	m		Anchura de la zona peatonal
	Htot =	1,92	m		Altura total de pasarela
	Hpeat =	1,25	m		Altura de zona peatonal
	Lcs =	11,50	m		Longitud de cordón superior
	Lci =	11,50	m		Longitud de cordón inferior
	Lcat =	9,34	m		Longitud de cordón de apoyo de tubería
	nc =	10,00			Número de celdas
	Lcc =	1,15	m		Longitud de cordón en cada celda
	nms =	11,00			Número de montantes superiores
	Hms =	0,96	m		Altura de montantes superiores
	nd =	10,00			Número de diagonales
	Ld =	1,60	m		Longitud de diagonales
	nmi =	8,00			Número de montantes inferiores
	Hmi =	0,55	m		Altura de montantes inferiores
2) Acciones permanentes					
2.1) Peso propio					
	YACERO =	78,5	kN/m ³		Peso específico del hormigón armado
2.2) Cargas muertas					
Tubería	FD - Ø 300 mm				
	d ext =	0,23	m		Diámetro exterior de tubería
	d int =	0,2	m		Diámetro interior de la tubería
	A int =	0,03	m ²		Área interior de la tubería
	q agua =	0,31	kN/m		Peso del agua pml
	q tubería =	0,37	kN/m		Peso lineal de tubería vacía
	q agua + q tubería =	0,68	kN/m		Peso lineal tubería llena
	L tubería =	6	m		Longitud de cada tramo de tubería
	R tubería =	2,05	kN		Reacción en cada apoyo de tubería
Tramex	Malla 20x20 y pletina de 30x3				
	q tra =	0,42	kN/m ²		Peso tramex por m ²
	Btra =	1,05	m		Ancho del tramex
	Rtra =	0,22	kN/m		Reacción del tramex pml
Rejilla Lateral de celosía					
	qr =	0,42	kN/m ²		Peso rejilla por m ²
	Ar =	0,55	m ²		Área de unidad de rejilla
	Qr =	0,23	kN		Peso total de la unidad de rejilla
	Lr =	3,71	m		Longitud de apoyo de la rejilla
	qrl =	0,06	kN/m		Peso lineal de la rejilla
	qrm =	0,06	kN/m		Carga rejilla en montante
	qrc =	0,06	kN/m		Carga rejilla en cordón
	qrd =	0,12	kN/m		Carga rejilla en diagonal

3) Acciones variables

3.1) Sobrecargas de uso

3.1.1) Carga Vertical Uniforme

qscuv=	5	kN/m ²	Sobrecarga de uso vertical en pasarela
Bpeat=	1,05	m	Ancho de zona peatonal
Rscuv =	2,63	kN/m	Reacción SCUV pml

3.1.2) Carga Horizontal

qscuh=	0,5	kN/m ²	Sobrecarga de uso horizontal en pasarela
Bpeat=	1,05	m	Ancho de zona peatonal
Rscu =	0,26	kN/m	Reacción SCUH pml

3.1.3) Comprobaciones locales

Qp =	10	kN	Carga puntual para comprobaciones locales
------	----	----	---

3.1.4) Empuje sobre barandilla

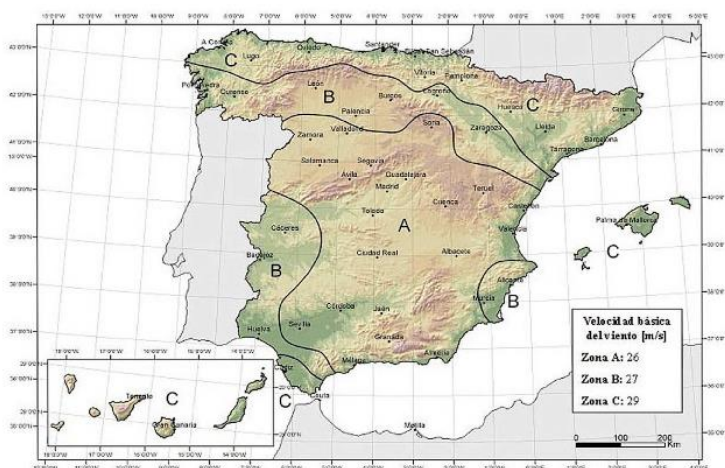
Qb =	1,5	kN/m	Carga sobre barandilla, concomitante con las anteriores
------	------------	------	---

3.2) Acciones climáticas

3.2.1) Viento

3.2.1.1) Velocidad básica del viento

cdir	1		factor direccional del viento
cseason	1		factor estacional del viento
vb,o	26	m/s	
vb	26	m/s	



T	100	años	periodo de retorno
k	0,2		
n	0,5		
cprob	1,04		factor de probabilidad
vb (T)	27,00	m/s	velocidad básica fundamental del viento

$$c_{prob} = \left[\frac{1 - K \ln \left[-\ln \left(1 - \frac{1}{T} \right) \right] \right]^n}{1 - K \ln \left[-\ln(0,98) \right]}$$

3.2.1.2) Velocidad media del viento

co	1,1		coeficiente de topografía en valles con encauzamiento, se tomará 1,1
----	-----	--	---

z	6	m	altura del punto de aplicación del empuje del viento respecto al terreno o lámina de agua
---	----------	---	--

Tipo de entorno:

kr	0,216		factor del terreno
z ₀	0,300		longitud de la rugosidad, según tabla 4.2-b
z _{min}	5,000		altura mínima según tabla 4.2-b
z	6,00	z > z _{min}	
cr(z)	0,65		factor de rugosidad

$$c_r(z) = k_r \cdot \ln \left(\frac{z}{z_0} \right) \quad \text{para } z > z_{min}$$

$$c_r(z) = c_r(z_{min}) \quad \text{para } z < z_{min}$$

3.2.1.3) Empuje del viento

$$F_w = \left[\frac{1}{2} \rho v_b^2(T) \right] c_e(z) c_r A_{ref} \quad \text{En dirección horizontal}$$

$$F_{w,z} = \left[\frac{1}{2} \rho v_b^2(T) \right] c_e(z) c_{f,z} A_{ref,z} \quad \text{En dirección vertical}$$

$1/2 \cdot \rho \cdot v_b(T)^2$	455,64	N/m2	presión de la velocidad básica del viento
kl	1,00		factor de turbulencia
z	6,00	z > z _{min}	
ce(Z)	1,58		coeficiente de exposición

$$c_e(z) = k_z^2 \left[c_a^2 \ln^2 \left(\frac{z}{z_0} \right) + 7 k_z c_a \ln \left(\frac{z}{z_0} \right) \right] \quad \text{para } z \geq z_{min}$$

$$c_e(z) = c_e(z_{min}) \quad \text{para } z < z_{min}$$

3.2.1.3.1) Empuje transversal del viento. Celosía

a) Sin sobrecarga

$$Cf_{SSC} = 1,80$$

	Barlovento	Sotavento	
dcs =	0,14	0,14	m, canto del perfil del cordón superior
CS =	1,61	1,61	m2, área del cordón superior
dci =	0,14	0,14	m, canto del perfil del cordón superior
CI =	1,61	1,61	m2, área del cordón inferior
Tubería =	3,80	0	m2, área expuesta de tubería
dcst =	0,14	0,14	m, canto del perfil de soporte de la tubería
ST =	1,3076	1,3076	m2, área del cordón de soporte de la tubería
nms =	11,00	11,00	número de montantes superiores
dms =	0,10	0,10	m, canto de los montantes superiores
hms =	0,96	0,96	m, altura de los montantes superiores
Ams =	1,056	1,056	m2, área de los montantes superiores
nmi =	8,00	8,00	número de montantes inferiores
dmi =	0,10	0,10	m, canto de los montantes superiores
hmi =	0,55	0,55	m, altura de los montantes superiores
Ami =	0,44	0,44	m2, área de los montantes superiores
nd =	10,00	10,00	número de diagonales
dd =	0,10	0,10	m, canto de las diagonales
hd =	1,60	1,60	m, longitud de las diagonales
Ad =	1,6	1,6	m2, área de las diagonales
Acsc =	11,42	7,62	m2
Atcsc =	19,04		m2
Ftssc =	24,72		kN, fuerza transversal con sobrecarga

b) Con sobrecarga

$$Cf_{SSC} = 2,10$$

	Barlovento	Sotavento	
hsc =	1,25	0,00	m, altura de la sobrecarga en pasarela
Lsc =	11,50	11,50	
Asc =	14,38	0,00	m2, área de sobrecarga
dci =	0,14	0,00	m, canto del perfil del cordón superior
CI =	1,61	0,00	m2, área del cordón inferior
Tubería =	3,80	0	m2, área expuesta de tubería
dcst =	0,14	0,14	m, canto del perfil de soporte de la tubería
ST =	1,3076	1,3076	m2, área del cordón de soporte de la tubería
nmi =	8,00	8,00	número de montantes inferiores
dmi =	0,10	0,10	m, canto de los montantes inferiores
hmi =	0,55	0,55	m, altura de los montantes inferiores
Ami =	0,44	0,44	m2, área de los montantes inferiores
Acsc =	21,53	1,75	m2
Atcsc =	23,28		m2
Ftsc =	35,25		kN, fuerza transversal con sobrecarga

3.2.1.3.2) Empuje vertical del viento. Tableros de alma llena

B =	1,19	m	Ancho del tablero
L =	11,50	m	Longitud del tablero
Cf _{pos} =	0,90		Coefficiente de fuerza con (+/- 0,9)
Cf _{neg} =	-0,90		
Aref =	13,685	m ²	Área de referencia sin sobrecarga
Fvpos =	8,88	kN	Empuje vertical sobre el tablero
Fvneg =	-8,88	kN	

3.2.1.3.3) Momento de vuelco. Celosía

Empuje horizontal

Ssc: se ponderan las áreas

	Area	Altura	(altura medida desde cara inferior de cordón de soporte de tubería)
Cordón superior	3,22	1,85	
Montantes superiores	2,112	1,297	
Diagonales	3,2	1,297	
Cordón inferior	3,22	0,744	
Tubería	3,80	0,343	
Montantes inferiores	0,88	0,407	
Cordón de soporte	2,62	0,07	
Atot =	19,04	m ²	
Hvssc =	0,90	m	Punto de aplicación del empuje respecto a la CI del CST
h apoyos =	0,674	m	
Mvssc =	5,52	kNm	Momento debido al empuje transversal total sin sobrecarga

Ssc: se ponderan las áreas

	Area	Altura	
Sobrecarga	14,38	1,427	
Cordón inferior	1,61	0,744	
Tubería	3,80	0,343	
Montantes inferiores	0,88	0,407	
Cordón de soporte	2,6152	0,07	
Atot =	23,28		
Hcsc =	1,01		Punto de aplicación del empuje respecto a la CI del CST
h apoyos =	0,674	m	
Mvssc =	11,91	kNm	Momento debido al empuje transversal con sobrecarga

Empuje vertical

0,25*B =	0,30	m	Punto de aplicación del empuje vertical
Mvpos =	2,64	kNm	Momento debido al empuje vertical positivo
Mvneg =	-2,64	kNm	Momento debido al empuje vertical negativo

3.2.1.3.4) Empuje longitudinal. Celosía

co	1,1	coeficiente de topografía
α =	0,610	coeficiente definido en la tabla 4.2-d
z =	6,00	z > z _{min}
L(z) =	35,332	Longitud integral de la turbulencia
$L(z) = \begin{cases} 300(z_{min}/200)^{0.6} & \text{para } z < z_{min} \\ 300(z/200)^{0.6} & \text{para } z_{min} \leq z \leq 200 \\ 300 & \text{para } z > 200 \end{cases}$		
Φ (L/Lz) =	0,026	$\Phi[L/Lz] = 0,239 + 0,182 \ln[L/Lz]$ siendo: $0 < \Phi[L/Lz] < 1$
cred	0,983	$1 - \left[\frac{7}{c_1 \ln\left(\frac{z}{z_0}\right) + 7} \right] \Phi[L/Lz]$
0,5°cred*Ftssc =	12,14	kN, Empuje longitudinal sobre el tablero sin sobrecarga
0,5°cred*Ftssc =	17,32	kN, Empuje longitudinal sobre el tablero con sobrecarga

3.2.1.3.5) Reacciones en apoyos

líneas de apoyo	2
n apoyos	4
B	1,19

	Fver	Fhor	M
VTSSC	0	24,72	5,52
VTSCC	0	35,25	11,91
VV	-8,88	0	2,64
VLSSC	0	12,14	0
VLSCC	0	17,32	0

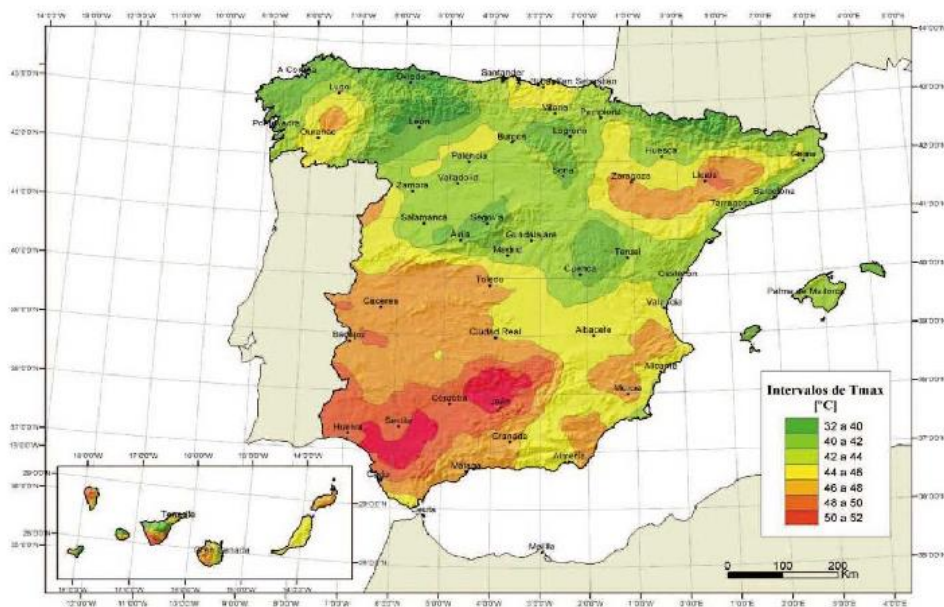
	Fvmax	Fvmin	Fhor
VTSSC	2,32	-2,32	6,18
VTSCC	5,01	-5,01	8,81
VV	-1,11	-3,33	0,00
VLSSC	0,00	0,00	3,04
VLSCC	0,00	0,00	4,33

3.2.2) Acciones térmicas

3.2.2.1) Temperatura máxima y mínima del aire

Tmax= 42 °
Tmin= -15 °
T= 100 años
p= 0,01
k1= 0,781
k2= 0,056
k3= 0,393
k4= 0,156
Tmax,p= 43,62 °
Tmin,p= 4,87 °

Temperatura máxima del aire a la sombra (figura 4.3-a)
Zona 4, Altitud 910 m
Periodo de retorno



3.2.2.2) Componente uniforme de la temperatura

Tipo de tablero 1 ▼

$\Delta T_{e,max} = 16$ °C

$\Delta T_{e,min} = -3$ °C

$T_{e,max} = 56,62$ °C

$T_{e,min} = 1,87$ °C

$\alpha = 0,00001$

tabla 4.3-b

Temperatura efectiva máxima (-3° por ser celosía)
Temperatura efectiva mínima

3.2.2.1) Rango de la componente uniforme de la temperatura

$\Delta T_n = 54,75$ °C

$T_o = 15$ °C

$\Delta T_{n,con} = 13,13$ °C

$\Delta T_{n,exp} = 41,62$ °C

Rango de variación de la temperatura uniforme
Temperatura inicial

Máxima variación de Temperatura uniforme en contracción
Máxima variación de Temperatura uniforme en dilatación

3.2.2.1) Máxima variación de contracción y dilatación en juntas y apoyos

$\Delta T_{n,con} \text{ juntas} = 28,13$ °C

$\Delta T_{n,exp} \text{ juntas} = 56,62$ °C

para juntas: Máxima variación de Temperatura uniforme en contracción
para juntas: Máxima variación de Temperatura uniforme en dilatación

3.2.2.3) Componente de la diferencia de temperatura

Tipo de tablero: 1

$\Delta T_m, \text{heat} = 18 \text{ } ^\circ\text{C}$

$\Delta T_m, \text{cool} = 13 \text{ } ^\circ\text{C}$

diferencia vertical de temperatura. Fibra superior más caliente

diferencia vertical de temperatura. Fibra superior más fría

TABLA 4.3 COEFICIENTE k_{sur} DE INFLUENCIA DEL TIPO Y ESPESOR DE PAVIMENTO

ESPESOR DEL PAVIMENTO	TABLERO TIPO 1		TABLERO TIPO 3	
	FIBRA SUPERIOR MÁS CALIENTE	FIBRA SUPERIOR MÁS FRÍA	FIBRA SUPERIOR MÁS CALIENTE	FIBRA SUPERIOR MÁS FRÍA
	k_{sur}	k_{sur}	k_{sur}	k_{sur}
Sin impermeabilización ni pavimento	0,7	0,9	0,8	1,1
Con impermeabilización y sin pavimento ⁽¹⁾	1,8	0,6	1,5	1,0
50 mm	1,0	1,0	1,0	1,0
100 mm	0,7	1,2	0,7	1,0
150 mm	0,7	1,2	0,5	1,0

⁽¹⁾ Estos valores representan valores límite superiores para superficies de color oscuro.

epavimento= 0,00 m

ksur,heat= 0,70

ksur,cool= 0,90

$\Delta T_m, \text{heat} = 12,60 \text{ } ^\circ\text{C}$

$\Delta T_m, \text{cool} = 11,70 \text{ } ^\circ\text{C}$

diferencia vertical de temperatura. Fibra superior más caliente

diferencia vertical de temperatura. Fibra superior más fría

3.2.3) Nieve

En general, sólo se considera en zonas de alta montaña o en fase de construcción.

sk= 1 kN/m2

qk= 0,8 kN/m2

sobrecarga de nieve en un terreno horizontal (tabla 4.4-a)

valor característico de la sobrecarga de nieve en tableros

4) Acciones accidentales

4.1) Acciones sísmicas (NCSP-07)

4.1.1) Aceleración de cálculo

$a_0 = 0,04 \text{ } ^\circ\text{g}$

k = 1,00

Aceleración sísmica básica

Coefficiente de contribución

Importancia del puente:

$\gamma_i = 1,00$

$P_R = 100 \text{ años}$

$\gamma_R = 0,53$

Periodo de retorno de cálculo

$\rho = 0,53$

Coefficiente adimensional de riesgo

	Tipo Terr.	C	[m] Espesor
Estrato 1	<input type="text" value="Tipo I"/>	1,00	10,00
Estrato 2	<input type="text" value="Tipo I"/>	1,00	10,00
Estrato 3	<input type="text" value="Tipo I"/>	1,00	10,00
Estrato 4	<input type="text" value="Tipo I"/>	1,00	10,00

C = 1,33

Dependiente de las características de los primeros 30m.

S = 1,07

Coefficiente de amplificación del terreno

$a_c = 0,022 \text{ } ^\circ\text{g}$

Aceleración sísmica horizontal de cálculo

No se considerarán acciones sísmicas

5) Valores de cálculo de las acciones

5.1) Valores representativos. Factores de simultaneidad

TABELA 6.1-a FACTORES DE SIMULTANEIDAD (1)

acción		ψ_1	ψ_2	ψ_3
Sobrecarga de uso	gr 1. Cargas verticales			
	Vehículos pesados	0,4	0,2	0
	Sobrecarga uniforme	0,5	0,5	0,2 ⁽¹⁾
	Carga en aceras	0,5	0,5	0
	gr 2. Pasos de transeúntes	0	0	0
Sobrecarga de uso en pasarelas	gr 1. Peatones	0	0	0
	gr 4. Aglomeraciones	0	0	0
	Sobrecarga de uso en pasarelas	0,4	0,4	0
	Viento	F_{sk}		
En situación persistente		0,5	0,2	0
En construcción		0,5	0	0
Acción térmica	T_k	0,5	0,5	0,5
Nieve	$S_{k,ref}$	0,5	0,2	0
Acción del agua	W_k			
	Empuje hidrostático	1,0	1,0	1,0
Sobrecargas de construcción	Q_k	1,0	0	1,0
	Empuje hidrostático	1,0	1,0	1,0

1) El límite de similitud λ_2 correspondiente a la sobrecarga uniforme se tomará igual a 0, salvo en el caso de la combinación de acciones en situación sismica (apartado 6.2.7.1), para lo cual se tomará igual a 0,2.

5.2) Estados límite últimos (E.L.U.)

TABLA 6.2-a COEFICIENTES PARCIALES PARA LAS ACCIONES γ_i
(PARA LA COMBINACIÓN DEL LEM DE EQUILIBRIO)

	ACCIÓN	EFECTO	
		ESTABILIZADOR	DESESTABILIZADOR
Permanente (C y G)	Peso propio	0,9 ¹⁸	1,1 ¹⁷
	Carga muerta	0,9 ¹⁸	1,1 ¹⁷
	Fuerza del viento	1,0	1,5
Variable (Q)	Sobrecarga de uso	0	1,35
	Sobrecarga de uso en rampas	0	1,5
	Accion de viento ¹⁹	0	1,5
	Empuje hidrostático	0	1,5
	Empuje hidrodinámico	0	1,5
	Sobrecargas de construcción	0	1,35

[illegible]

(2) Por acciones climáticas se entiende la acción térmica, el viento y la nieve

TABLA 6.2-6 COEFICIENTES PARCIALES PARA LAS ACCIONES γ ,
 (PARA LAS COMPROBACIONES RESISTENTES)

	ACCIÓN	EFECTO	
		FAVORABLE	DESFAVORABLE
Fuerzas de deformación típicas (G)	Peso propio	1,0	1,35
	Carga muerta	1,0	1,35
	Frenado F_1	1,0	$1,0 / 1,2^A / 1,3^B$
	Frenado F_2	1,0	1,35
	Otras prescripciones	1,0	1,0
Fuerzas de valor en estado (V)	Neutras	1,0	1,35
	Empuje en tracción	1,0	1,5
	Asientos	0	$1,2 / 1,35^B$
	Rotamiento de apoyos deslizantes	1,0	1,35
	Sobrecarga de uso	0	1,35
Ventosas (E)	Sobrecarga de uso en los rampones	0	1,5
	Auditorio sismático	0	1,5
	Empuje horizontal	0	1,5
	Empuje horizontal	0	1,5
	Sobrecargas de construcción	0	1,35

(1) El coeficiente $\gamma_Q = 1,2$ sirve de aplicación al pretensado P_1 en el caso de verificaciones locales tales como la transmisión de la fuerza de pretensado al hormigón en zonas de anclaje, cuando se toma como valor de la acción el que corresponde a la fuerza de pretensado.

(2) El coeficiente $\gamma_{\text{red}} = 1,2$ se aplica al prefactor 2, es decir, la excentricidad e quedará a su vez reducida en un 20%.

El coeficiente γ_{c} = 1,25 corresponde a una evaluación de los efectos de las acciones mediante un cálculo elástico plano; mientras que el valor γ_{c} = 1,2 corresponde a un cálculo plástico de acciones.

5.3) Estados límite de servicio (E.L.S.)

TABLA 6.2-c COEFICIENTES PARCIALES PARA LAS ACCIONES γ_F (ELS)

ACCIÓN		EFECTO	
		FAVORABLE	DESFAVORABLE
Permanente de valor constante (G_1)	Peso propio	1,0	1,0
	Carga muerta	1,0	1,0
	Pretenesado P_1	0,8 ⁽¹⁾	1,1 ⁽¹⁾
	Pretenesado P_2	1,0	1,0
Permanente de valor no constante (G_2)	Otras preesolicitaciones	1,0	1,0
	Rectólicas	1,0	1,0
	Empuje del terreno	1,0	1,0
	Asentamientos	0	1,0
	Desplazamiento de apoyos deslizantes	1,0	1,0
Variable (Q)	Sobrecarga de uso	0	1,0
	Sobrecarga de uso en techos	0	1,0
	Acciones climáticas	0	1,0
	Empuje hidrostático	0	1,0
	Empuje hidroclimático	0	1,0
	Sobrecarga de construcción	0	1,0

[1] Para la acción del polímero se tomaron los coeficientes que indica la FHE-08 a normativa que la sustituya. En la tabla figuran los valores que la FHE-08 recoge para el caso de estructuras pretensas, en el caso de estructuras pretensas.

6) Combinación de acciones

6.1) Estados límite últimos (E.L.U.)

6.1.1) Situación persistente o transitoria

$$\sum_{j=1}^n \gamma_{G,j} G_{k,j} + \sum_{m=1}^n \gamma_{G,m} G_{k,m} + \gamma_{Q,1} Q_{k,1} + \sum_{i>1} \gamma_{Q,i} \psi_{0,i} Q_{k,i}$$

6.1.2) Situaciones accidentales

6.1.2.1) Situaciones accidentales sin sismo

$$\sum_{j=1}^n G_{k,j} + \sum_{m=1}^n G_{k,m}^* + \psi_{1,1} Q_{k,1} + \sum_{i>1} \psi_{2,i} Q_{k,i} + A_d$$

6.1.2.2) Situaciones accidentales de sismo

$$\sum_{j=1}^n G_{k,j} + \sum_{m=1}^n G_{k,m}^* + \psi_{2,1} Q_{k,1} + A_{Ed}$$

6.1.3) Fatiga

Debido a la dependencia del material, la verificación del E.L.U. de fatiga se realizará según se indique en las normas de materiales corresp.

6.2) Estados límite de servicio (E.L.S.)

Combinación característica (poco probable o rara):

$$\sum_{j=1}^n \gamma_{G,j} G_{k,j} + \sum_{m=1}^n \gamma_{G,m} G_{k,m}^* + \gamma_{Q,1} Q_{k,1} + \sum_{i>1} \gamma_{Q,i} \psi_{0,i} Q_{k,i}$$

Combinación frecuente:

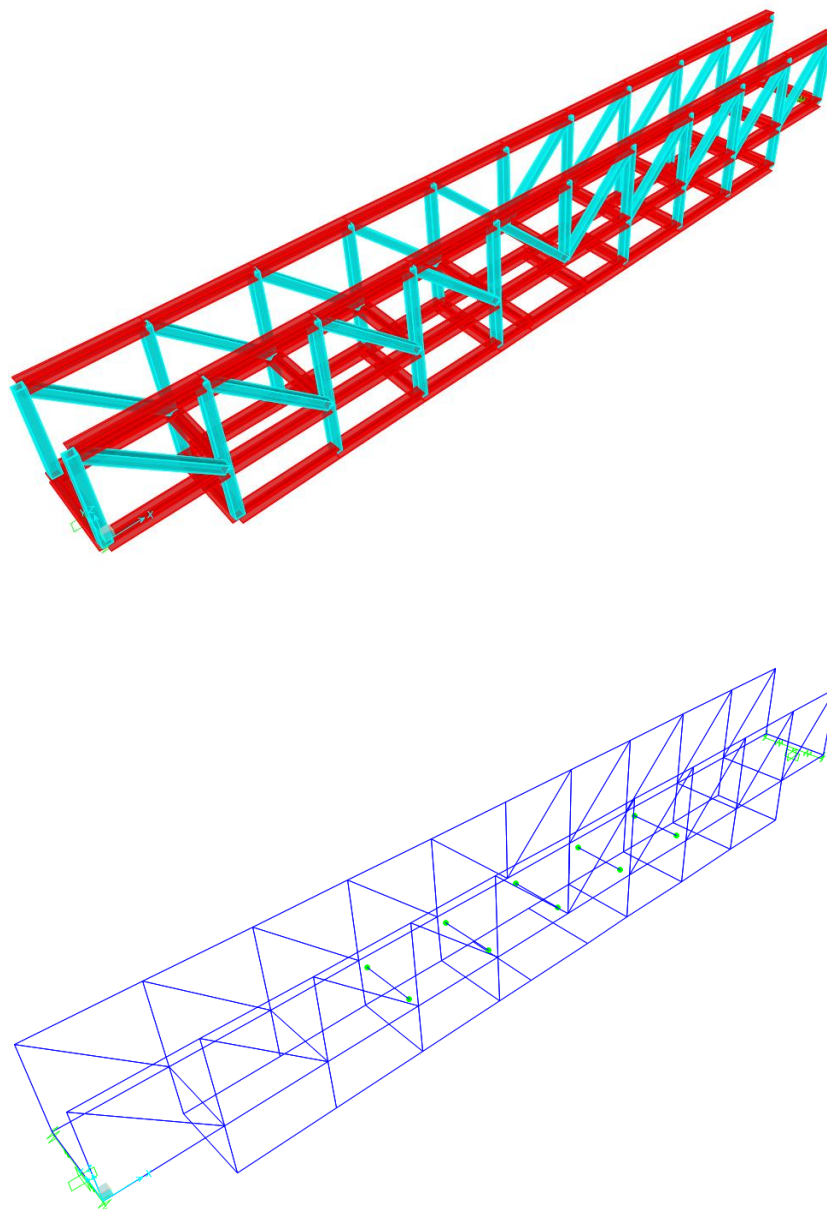
$$\sum_{j=1}^n \gamma_{G,j} G_{k,j} + \sum_{m=1}^n \gamma_{G,m} G_{k,m}^* + \gamma_{Q,1} \psi_{1,1} Q_{k,1} + \sum_{i>1} \gamma_{Q,i} \psi_{2,i} Q_{k,i}$$

Combinación casi-permanente:

$$\sum_{j=1}^n \gamma_{G,j} G_{k,j} + \sum_{m=1}^n \gamma_{G,m} G_{k,m}^* + \sum_{i>1} \gamma_{Q,i} \psi_{2,i} Q_{k,i}$$

4.2 MODELO DE SAP2000

Se ha realizado un modelo 3D en SAP 2000. En los siguientes apartados se muestran los materiales, los perfiles, las cargas y las comprobaciones en ELS y ELU. En el apéndice 3 se muestran el listado de SAP 2000.



4.2.1 MATERIALES

Material Property Data

General Data

Material Name and Display Color: S275 ■

Material Type: Steel

Material Notes: [Modify/Show Notes...](#)

Weight and Mass

Weight per Unit Volume: 76,9729

Mass per Unit Volume: 7,849

Units

KN, m, C

Isotropic Property Data

Modulus of Elasticity, E: 2,100E+08

Poisson, U: 0,3

Coefficient of Thermal Expansion, A: 1,170E-05

Shear Modulus, G: 80769231,

Other Properties for Steel Materials

Minimum Yield Stress, Fy: 275000,

Minimum Tensile Stress, Fu: 410000,

Expected Yield Stress, Fye: 275000,

Expected Tensile Stress, Fue: 410000,

☐ Switch To Advanced Property Display

OK Cancel

4.2.2 SECCIONES TRANSVERSALES

I/Wide Flange Section

Section Name: HE140B Display Color: ■

Section Notes:

Extract Data from Section Property File

Open File:

Dimensions

Outside height (t3):

Top flange width (t2):

Top flange thickness (tf):

Web thickness (tw):

Bottom flange width (t2b):

Bottom flange thickness (tfb):

Material

S275

Property Modifiers

Section

Properties

Tube Section

Section Name: TUBO100X100X8 Display Color: ■

Section Notes:

Extract Data from Section Property File

Open File:

Dimensions

Outside depth (t3):

Outside width (t2):

Flange thickness (tf):

Web thickness (tw):

Material

S275

Property Modifiers

Section

Properties

Channel Section

Section Name: UPN80 Display Color: ■

Section Notes:

Extract Data from Section Property File

Open File:

Dimensions

Outside depth (t3):

Outside flange width (t2):

Flange thickness (tf):

Web thickness (tw):

Material

S275

Property Modifiers

Section

Properties

4.2.3 APOYOS

Link/Support Property Data

Link/Support Type: **Linear**

Property Name: **RIGID**

Property Notes:

Total Mass and Weight

Mass: Rotational Inertia 1:

Weight: Rotational Inertia 2:

Rotational Inertia 3:

Factors for Line, Area and Solid Springs

Property is Defined for This Length in a Line Spring:

Property is Defined for This Area in Area and Solid Springs:

Directional Properties

Direction	Fixed
<input checked="" type="checkbox"/> U1	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> U2	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> U3	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> R1	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> R2	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> R3	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> R4	<input checked="" type="checkbox"/>

Properties

P-Delta Parameters

Linear Link/Support Directional Properties

Link/Support Name

Directional Control

Direction	Fixed
<input checked="" type="checkbox"/> U1	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> U2	<input type="checkbox"/>
<input checked="" type="checkbox"/> U3	<input type="checkbox"/>
<input type="checkbox"/> R1	<input type="checkbox"/>
<input type="checkbox"/> R2	<input type="checkbox"/>
<input type="checkbox"/> R3	<input type="checkbox"/>

Shear Distance from End J

U2 0

U3 0

Units
kN, m, C

Stiffness Values Used For All Load Cases

☒ Stiffness Is Uncoupled ☐ Stiffness Is Coupled

U1	U2	U3	R1	R2	R3
Fixed	750	750			

Damping Values Used For All Load Cases

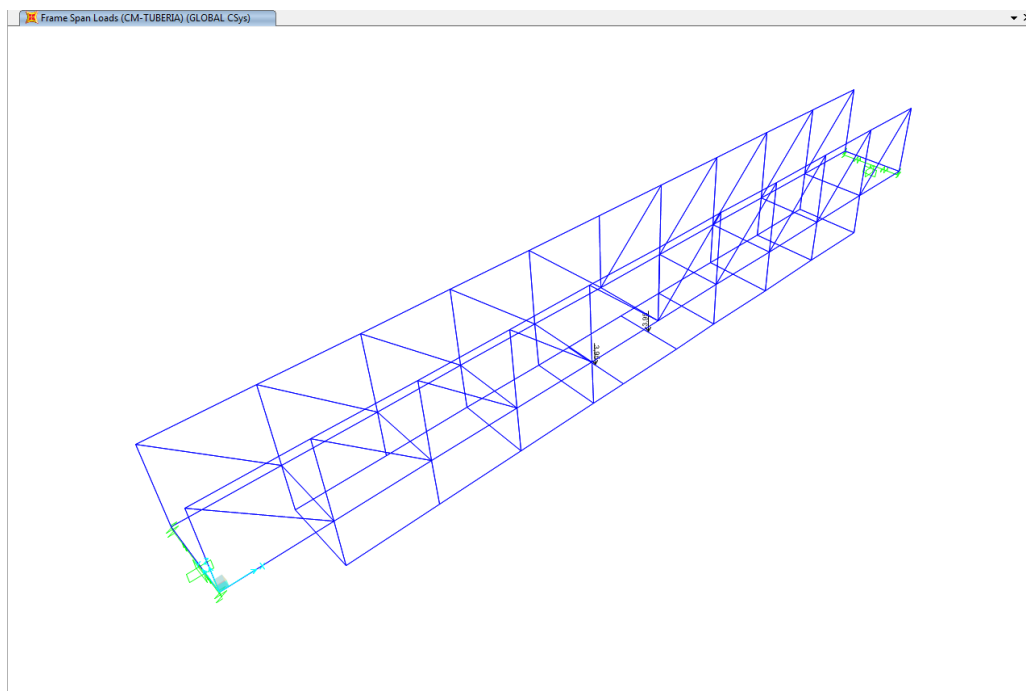
☒ Damping Is Uncoupled ☐ Damping Is Coupled

U1	U2	U3	R1	R2	R3
Fixed	0	0			

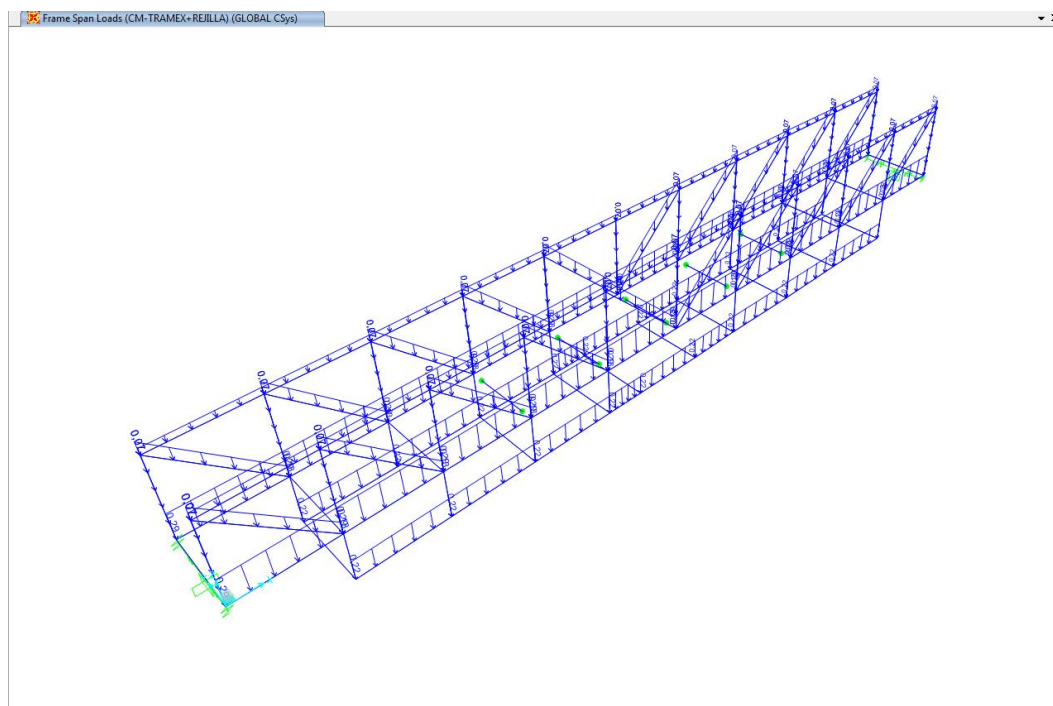
OK Cancel

4.2.4 CARGAS

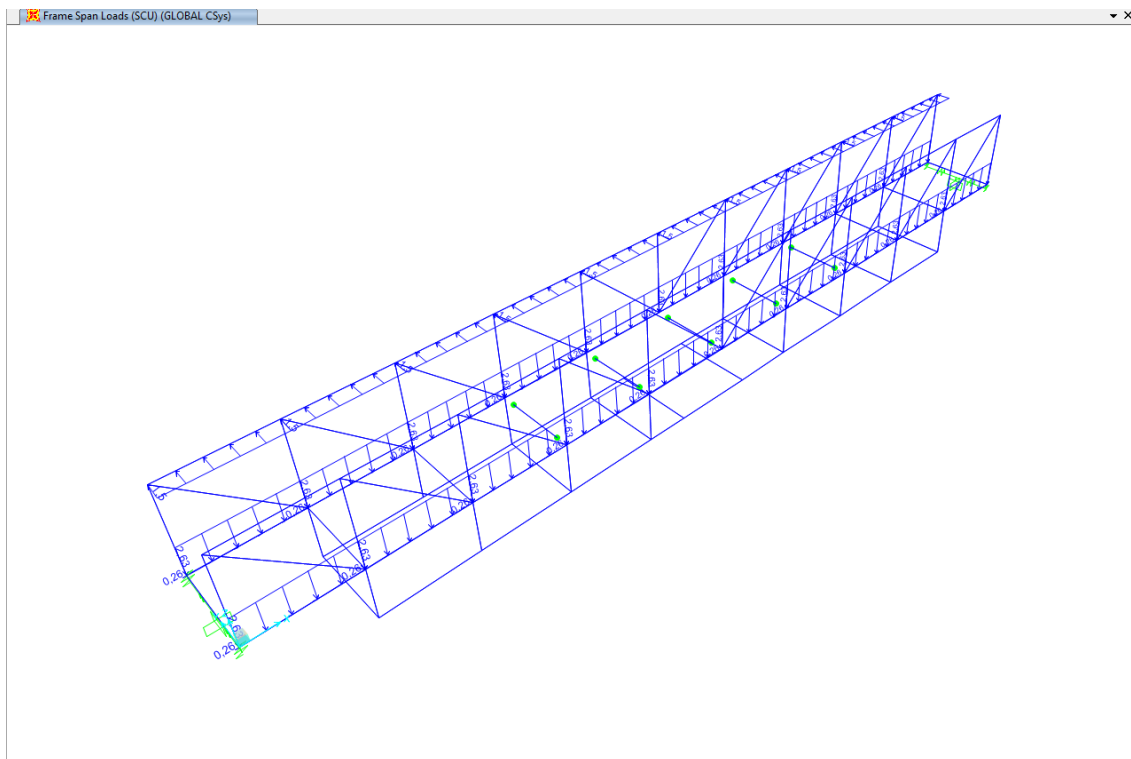
4.2.4.1 CM TUBERÍA



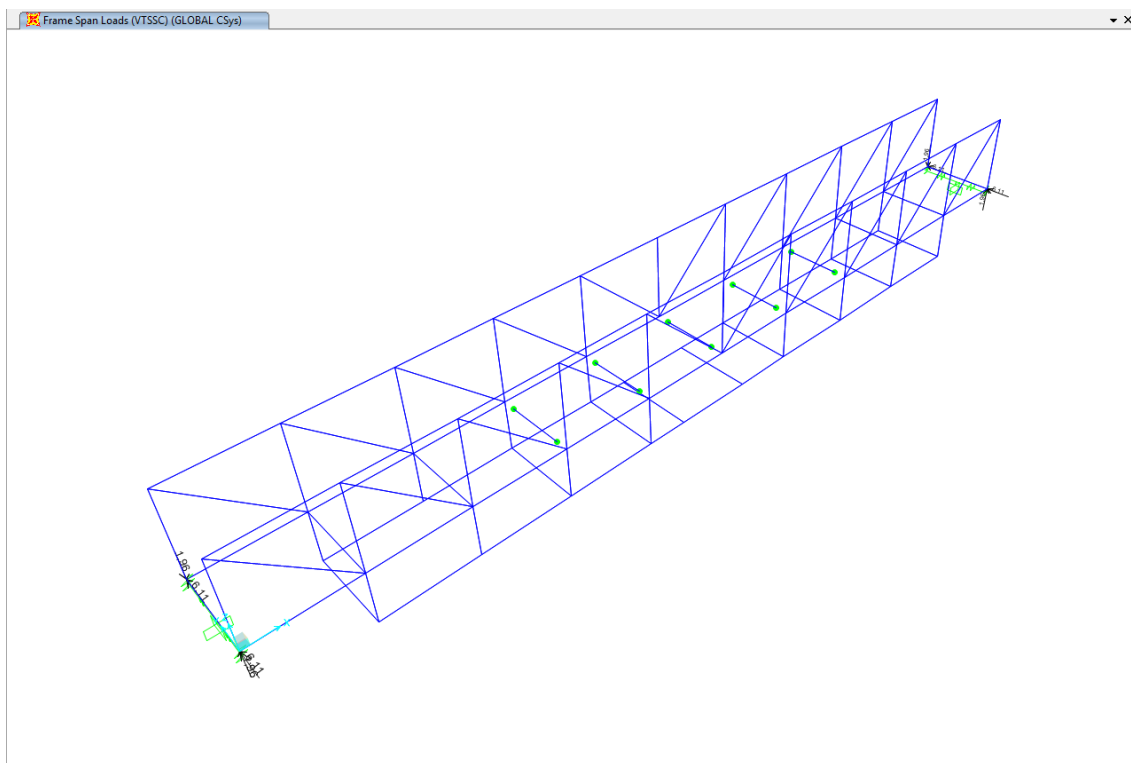
4.2.4.2 CM TRAMEX Y REJILLAS LATERALES



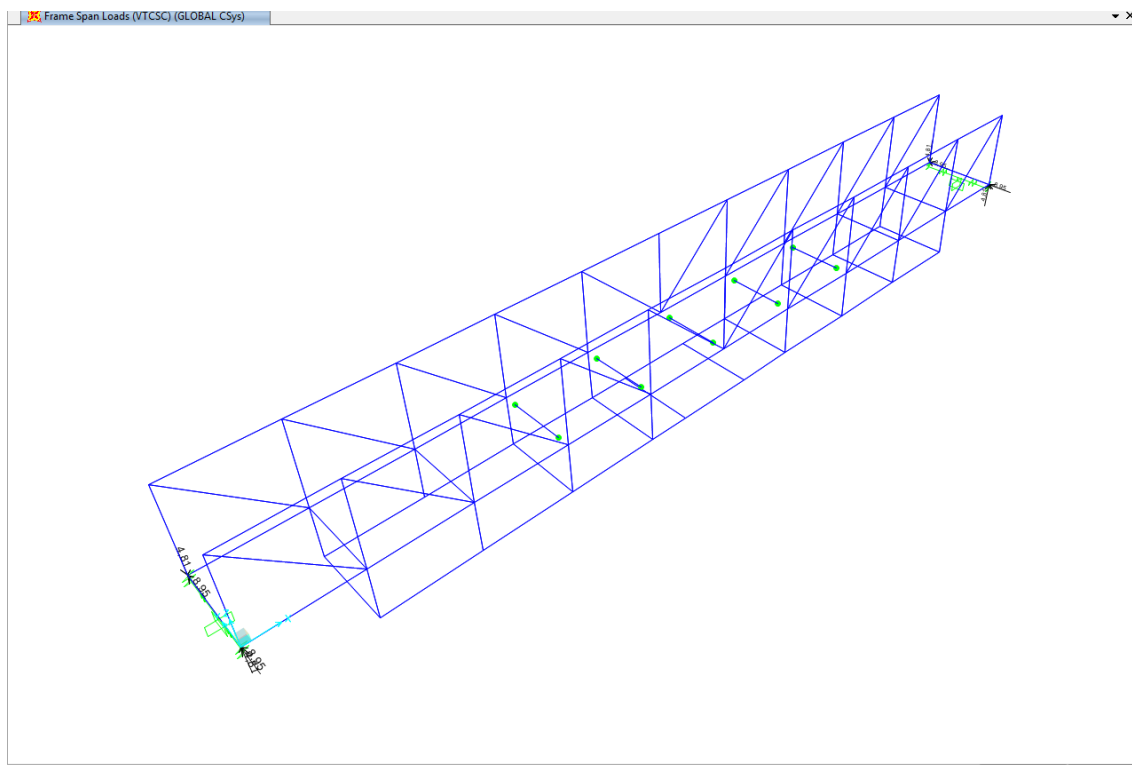
4.2.4.3 SOBRECARGA UNIFORME



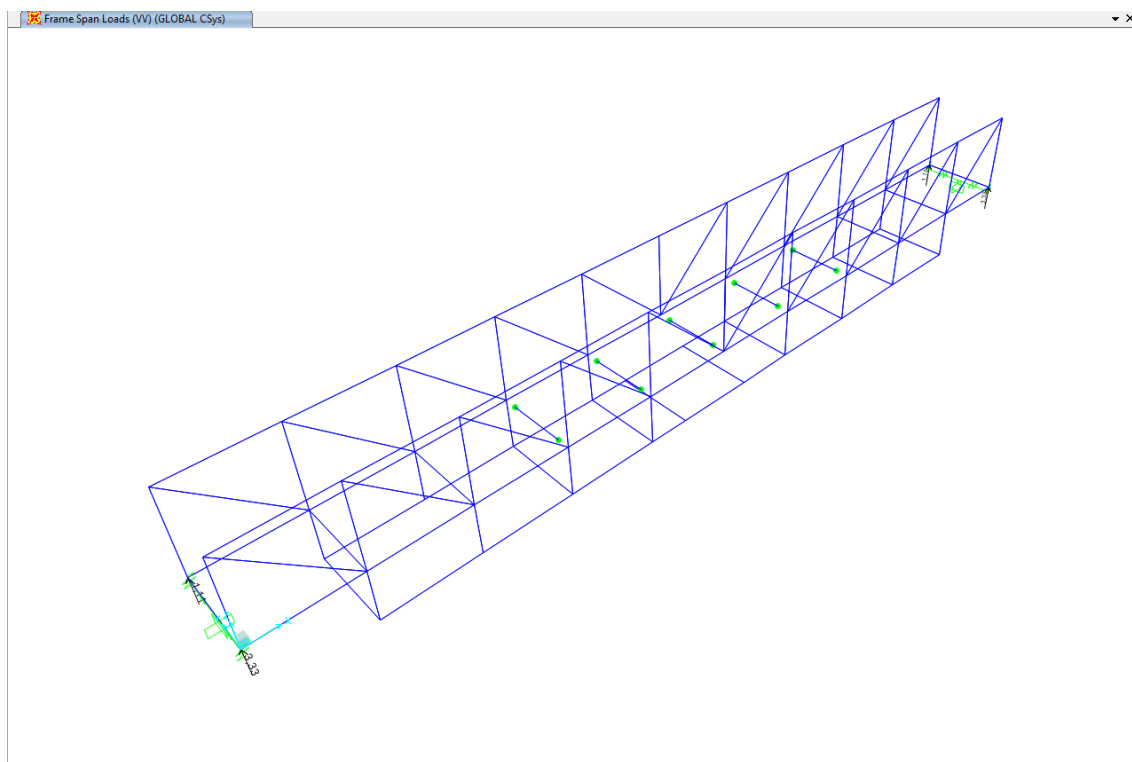
4.2.4.4 VIENTO TRANSVERSAL SIN SOBRECARGA



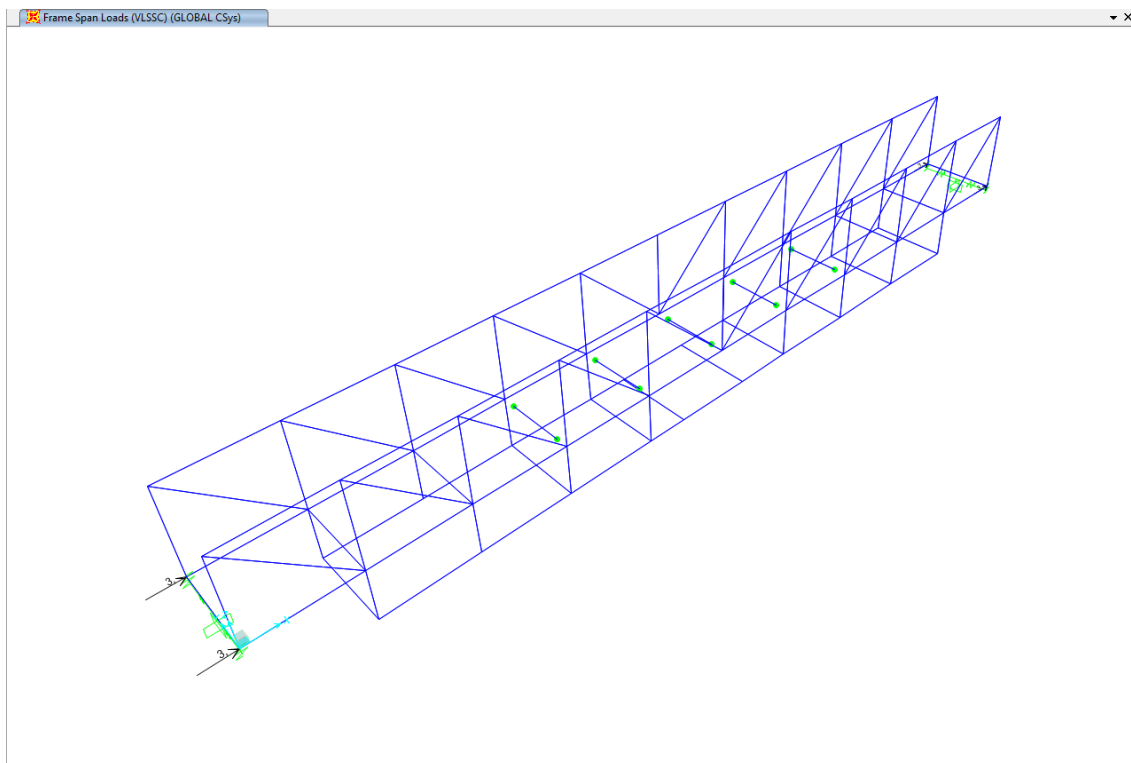
4.2.4.5 VIENTO TRANSVERSAL CON SOBRECARGA



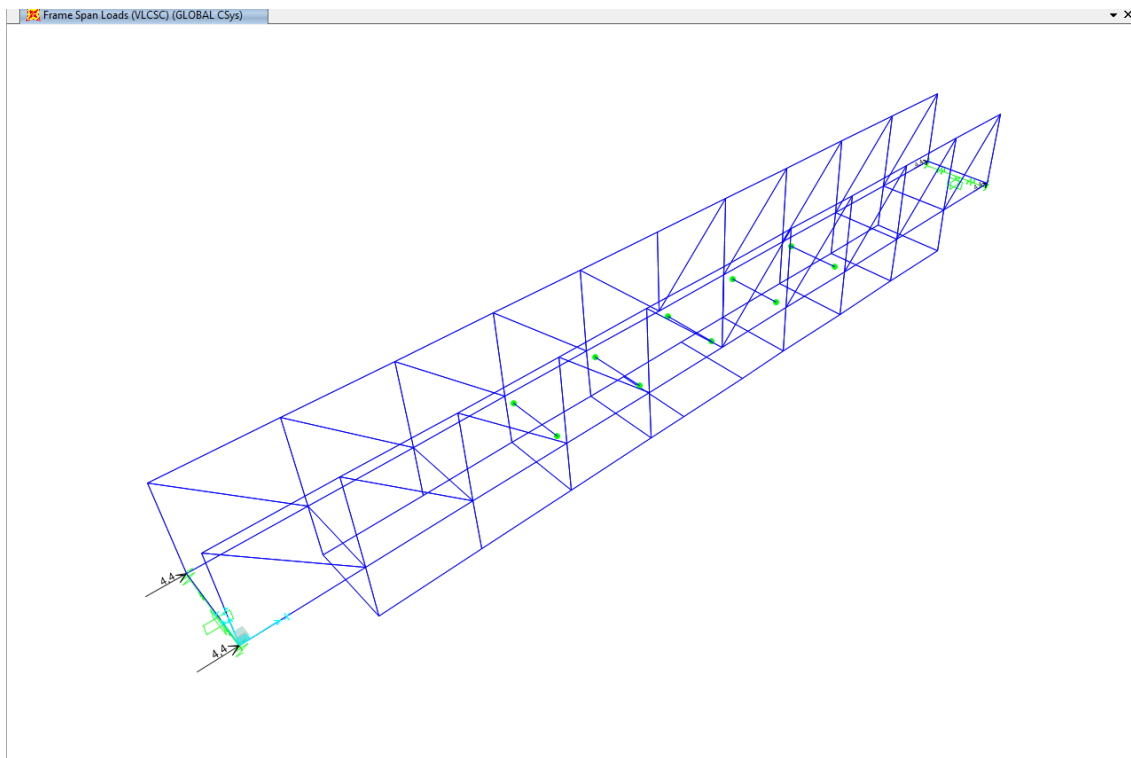
4.2.4.6 VIENTO VERTICAL

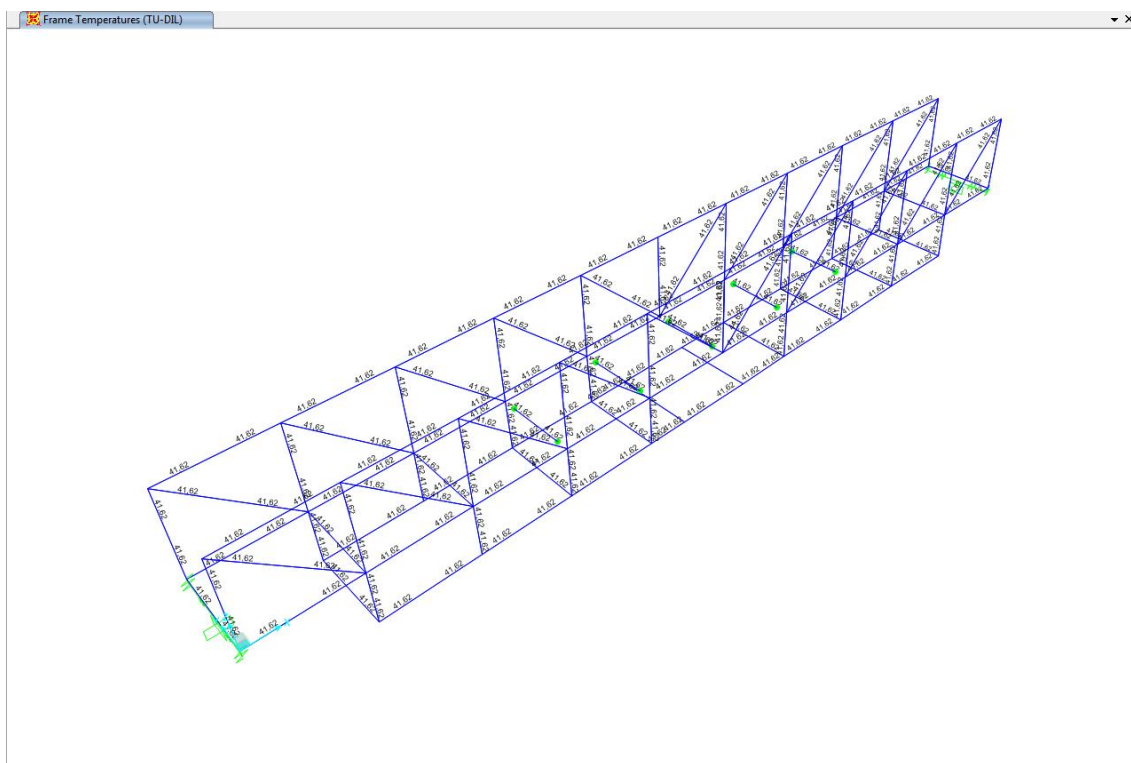


4.2.4.7 VIENTO LONGITUDINAL SIN SOBRECARGA



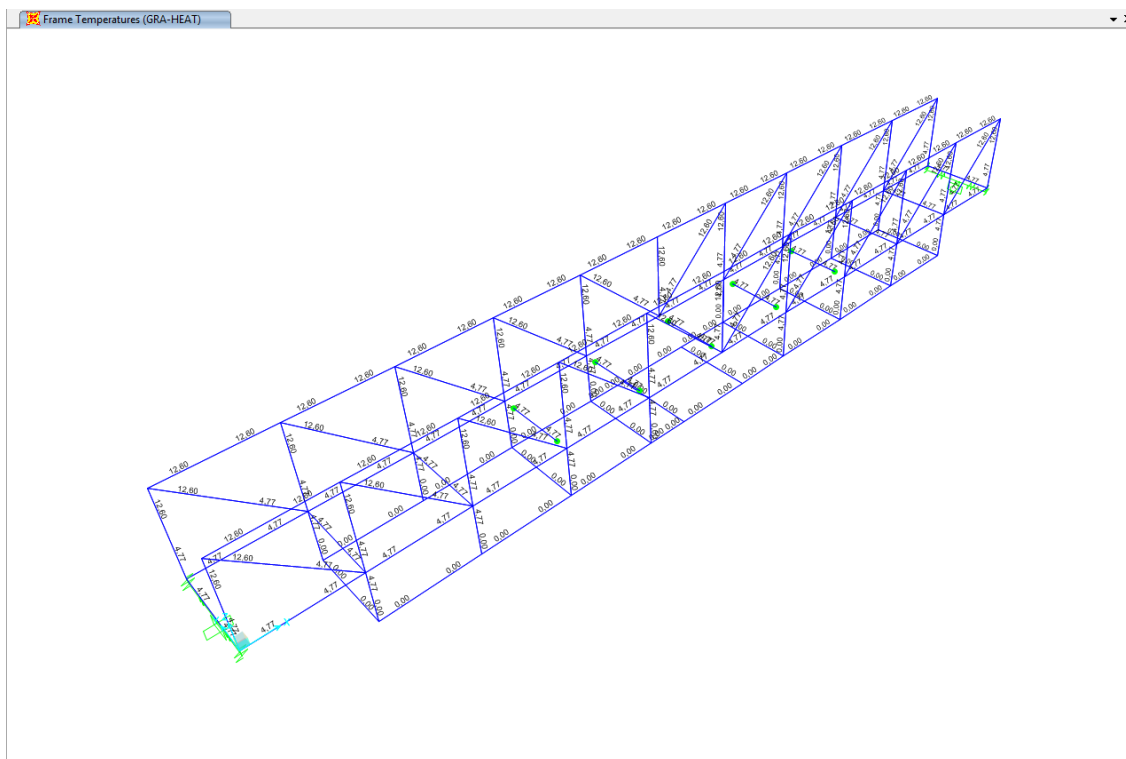
4.2.4.8 VIENTO LONGITUDINAL CON SOBRECARGA



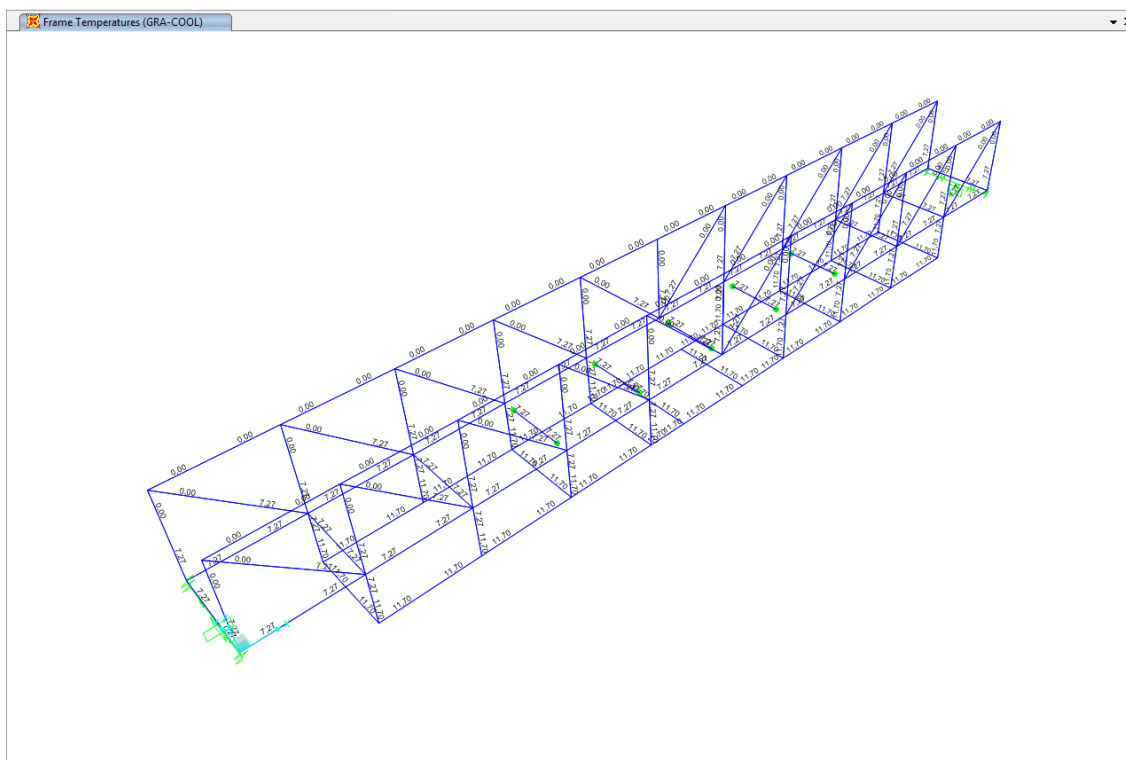


A 3D visualization of a truss structure with frame temperatures. The structure is a complex, elongated truss with many members and joints. The temperatures are displayed as numerical values along the members, ranging from -15.13 to -19.13. The structure is shown in a perspective view, with a green square highlighting a specific joint at the bottom left.

4.2.4.11 GRADIENTE TÉRMICO. CARA SUPERIOR.



4.2.4.12 GRADIENTE TÉRMICO. CARA INFERIOR.

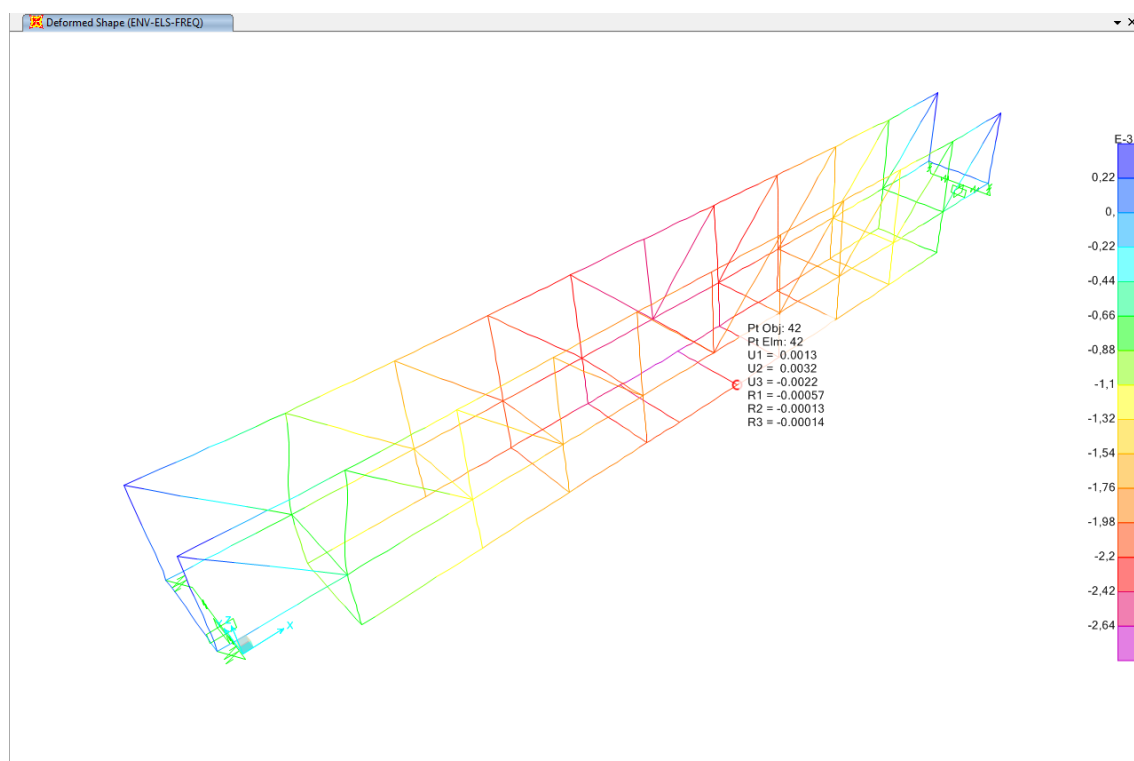


4.2.5 COMBINACIONES Y ENVOLENTES

Ver Apéndice 3.

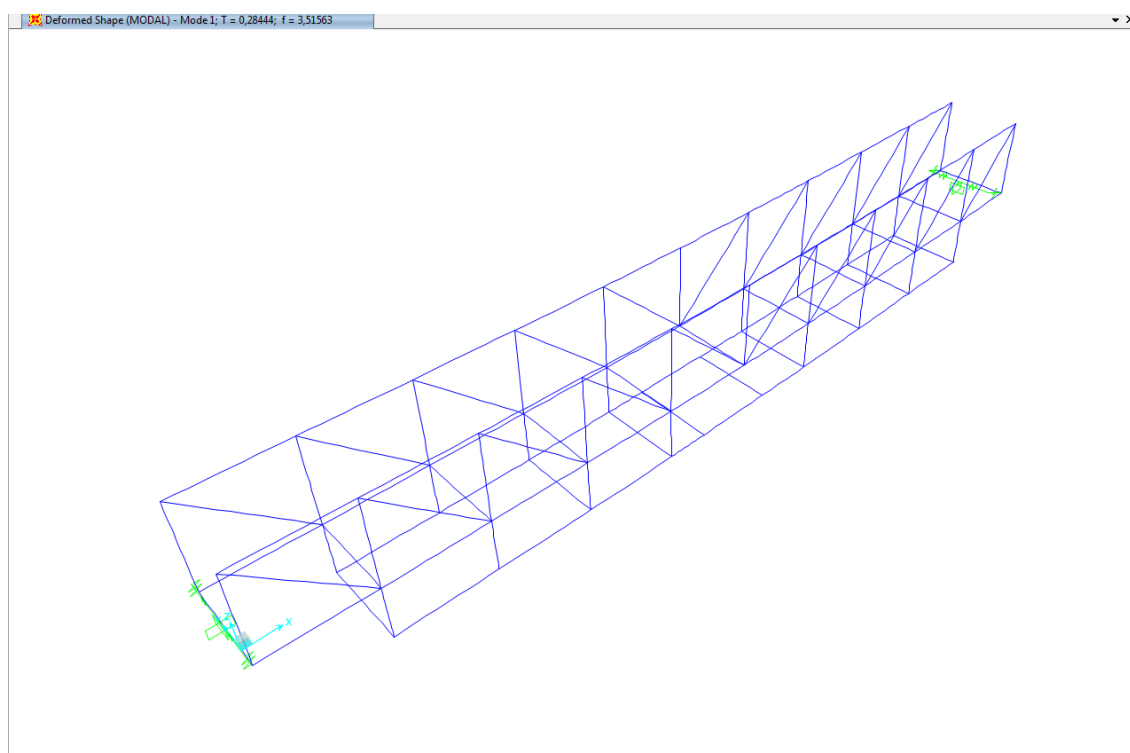
4.3 ELS DEFORMACIONES

De acuerdo con el apartado 7.1.1 se debe verificar que la flecha máxima vertical correspondiente al valor frecuente no supera $L / 1200$									
L	11,5	m							
$L/1200$	0,0096	m							
δ_{adm}	9,5833	mm							
δ_{max}	0,0022	m							
	2,2	mm							
OK, flecha max < flecha admisible									



4.4 ELS VIBRACIONES

Se considera verificado el ELS de vibraciones en pasarelas peatonales si sus frecuencias naturales se sitúan fuera de:

[illegible]

4.5 NEOPRENOS

	Fz max	Fzmin	Fx	Fy
PP	10,73	10,73	0,05	0,00
CM-TUBERÍA	1,97	1,97	0,01	0,00
CM-TRAMEX Y REJILLA	4,55	4,55	0,02	0,00
SCU	24,39	5,85	1,66	4,31
VTSSC	1,96	-1,96	0,00	6,11
VTSCC	4,81	-4,81	0,00	8,95
VV +	-1,11	-3,33	0,00	0,00
VV -	1,11	3,33	0,00	0,00
VLSSC	0,00	0,00	3,00	0,00
VLSCC	0,00	0,00	4,40	0,00

	ux	uy	ϕy	ϕx
TU-DIL	0,00379422	0,000347637	1,14154E-05	1,517E-08
TU-CON	0,00188505	0,000172713	5,67143E-06	7,537E-09
GRA-HEAT	0,00032151	2,92774E-05	0,000448577	2,513E-06
GRA-COOL	0,00048545	4,46479E-05	0,000414162	2,331E-06

	Fzmax	Fzmin	Fx	Fy
Cpermanente	17,26	17,26	0,08	0,00
CP	17,26	17,26	0,08	0,00

	Fzmax	Fzmin	Fx	Fy
Cpermanente	17,26	17,26	0,08	0,00
SC	24,39	5,85	1,66	4,31
VTSCC + VV	5,92	-8,14	0,00	8,95
VLSCC	0,00	0,00	4,40	0,00
CP+1xSCdominante+0,3xResto SC	43,42	11,46	5,14	8,95

	Fzmax	Fzmin	Fx	Fy
Cpermanente	17,26	17,26	0,08	0,00
VTSSC + VV	3,07	-5,29	0,00	6,11
VLSSC	0,00	0,00	3,00	0,00
CP+1xSCdominante+0,3/0,4xResto SC	20,33	11,97	3,08	6,11

	ux	uy	ϕy	ϕx
TU + GRA	0,00428	0,00039	0,000459992	2,529E-06

Nmax	43,42	kN	Ux	0,00428
Nmin	11,46	kN	Uy	0,00039
Fx	5,14	kN	ϕy	0,00046
Fy	8,95	kN	ϕx	2,529E-06

Geometría del neopreno

Glentas	0,9	N/mm2 (temperatura, fluencia y retracción)
Grápidas	1,8	N/mm2 (frenado, sismo)
a	100	mm, lado corto
b	100	mm, lado largo
h apoyo	12	mm, altura total del apoyo
rec sup	0	mm
rec inf	0	mm
e	2	mm, espesor de las chapas de acero
t	5	mm, espesor de la capa de elastómero
n	2,00	número de capas interiores de elastómero
T	10,00	mm, espesor total de elastómero
Denominación	100x100x2(5+2)	
kneop	750	N/mm2

Compresión

Reacción vertical máxima y mínima

Nmax	43	kN
Nmin	11,46	kN

Tensión media máxima y mínima

σ_{max}	4,34	N/mm2, tensión media	
	44,26	kg/cm2	OK, smed < 150 kg/cm2
σ_{min}	1,15	N/mm2, tensión media	
	11,68	kg/cm2	Hay que anclar el apoyo

Verificación de no desplazamiento

fmax	1,48		
fmax * Hmax	64,34	kN	
Hmax	8,95	kN	OK, Hmax < fmax x Hmax
fmin	0,24		
fmin * Hmin	2,70	kN	
Hmin	5,14	kN	Hay que anclar el apoyo

Tensiones tangenciales máximas y mínimas

S	5	factor de forma de la capa
τ_{nmax}	1,30	N/mm2
	13,28	kg/cm2
τ_{nmin}	0,34	N/mm2
	3,50	kg/cm2

Fuerzas y desplazamientos horizontales

Cargas lentas: fluencia, retracción, temperatura

u1x	0,00428	mm	u1y	0,00039	mm
tan γ_x	0,00043		tan γ_y	0,00004	
τ_{1x}	0,00039	N/mm2	τ_{1y}	0,00004	N/mm2
τ_{H1tot}	0,00039	Mpa			OK, th1tot < 0,5 G

Cargas rápidas: frenado, fuerza centrífuga, viento, choque vehículos, sismo

Fhor 2x	5,14	kN	Fhor 2y	8,95	kN
u2x	2,85	mm	u2y	4,97	mm
tan γ_{2x}	0,28544		tan γ_{2y}	0,49722	
τ_{2x}	0,51379	N/mm2	τ_{2y}	0,89500	N/mm2

Cargas lentas + Cargas rápidas

ux	2,859	mm	uy	4,973	mm
τ_x	0,25728	Mpa	τ_y	0,44754	Mpa
τ_{Htot}	0,51622	Mpa			OK, thtot < 0,7 G
0,7 G	0,63000	Mpa			

Giro

α_0	0,003000	rad	α_0	0,000000	rad
$\Theta_y = \Theta_y + \alpha_0$	0,003460	rad	Θ_x	0,000003	rad
$\tau_{\alpha x}$	0,054062	Mpa	$\tau_{\alpha y}$	0,000040	Mpa
k_2	75,30		k_2	75,30	
M_y	165418	Nmm	M_y	121	Nmm
$\tau_{\alpha tot}$	0,054062	Mpa			

Limitación de tensión tangencial total

$\tau_{tot} = \tau_{nmax} + \tau_{Htot} + \tau_{\alpha tot}$	1,87	Mpa	
5G	4,50	Mpa	OK, $t_{tot} < 5 G$

Condición de estabilidad

T	10	mm	
a/10	10,00	mm	
a/5	20,00	mm	OK, $a/10 < T < a/5$

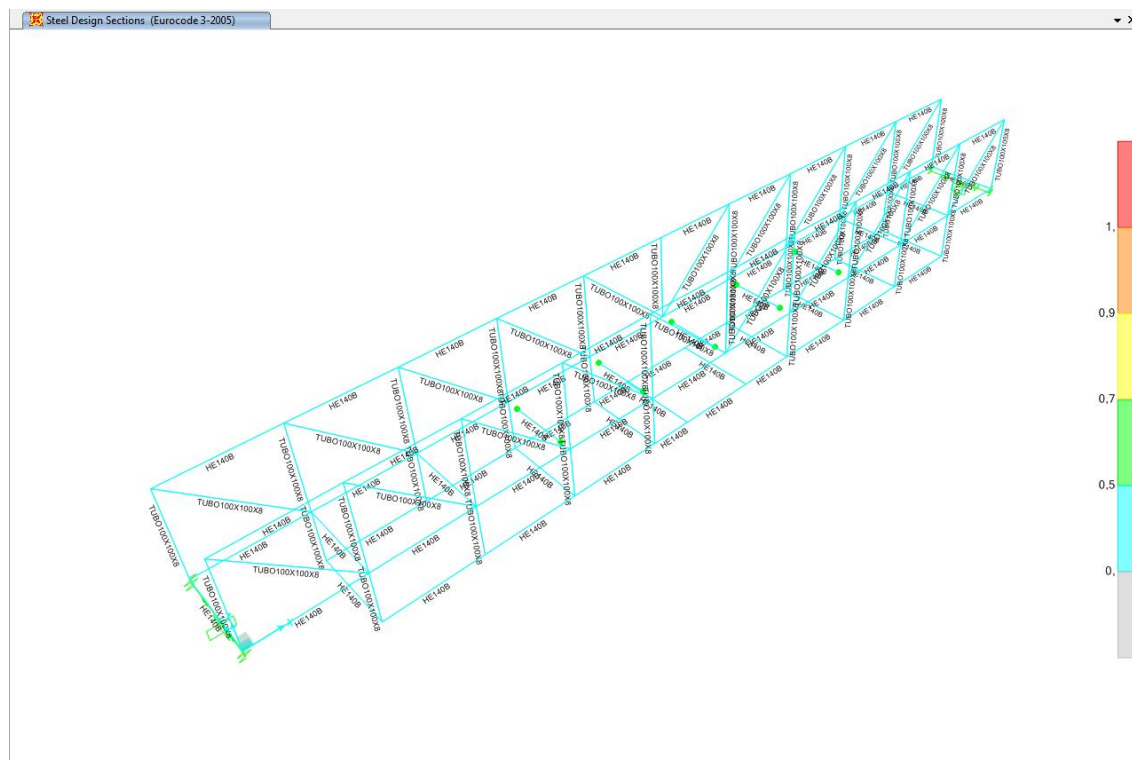
Condición de no levantamiento

α_{ty}	0,000230	rad	α_{tx}	0,000001	rad
$\alpha_{tymax}(\sigma_{max})$	0,007237	rad	$\alpha_{txmax}(\sigma_{max})$	0,007237	rad
$\alpha_{tymax}(\sigma_{min})$	0,001910	rad	$\alpha_{txmin}(\sigma_{min})$	0,001910	rad
OK, $g_y < g_{y adm}$			OK, $g_x < g_{x adm}$		

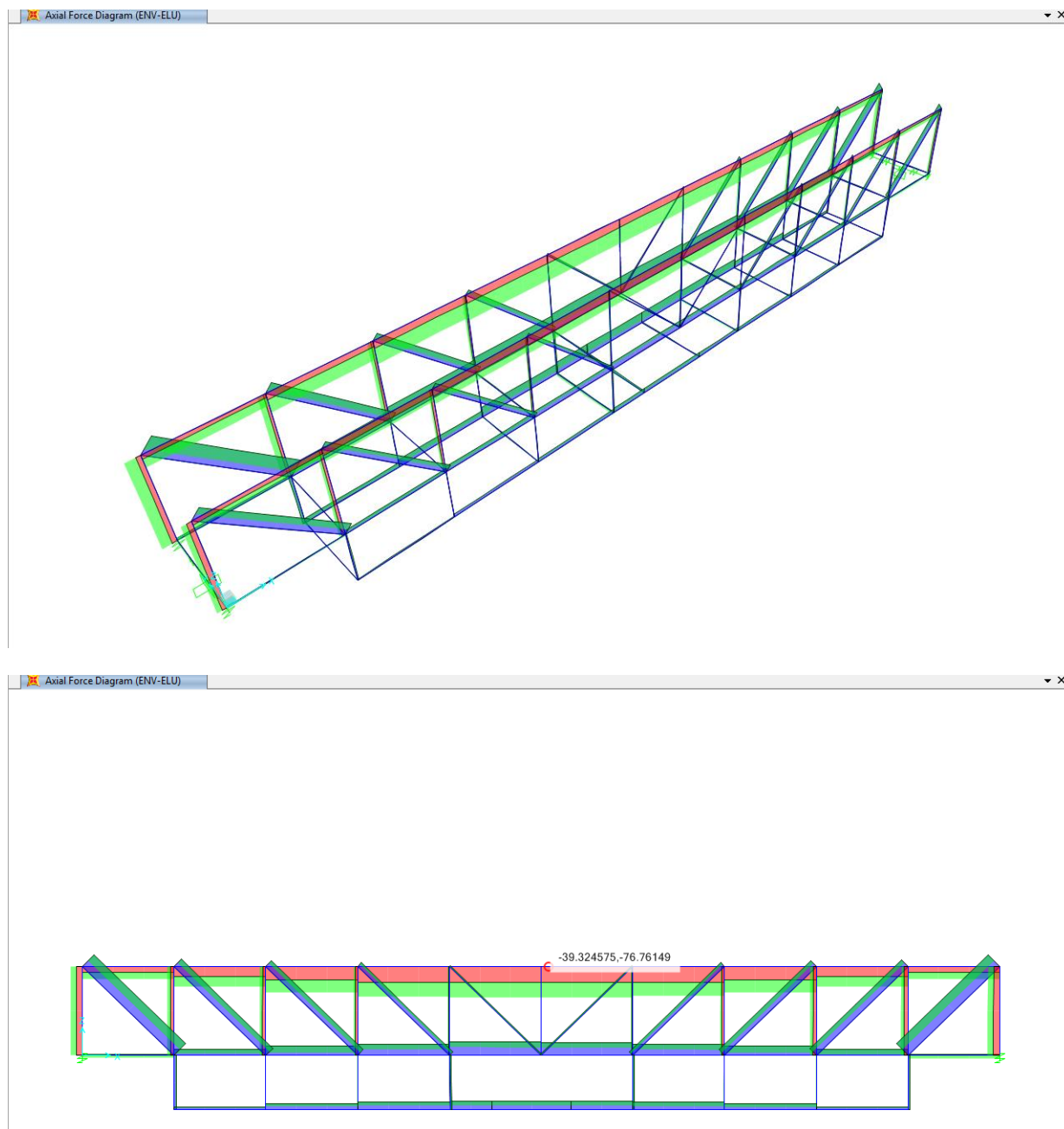
Espesor de zunchos

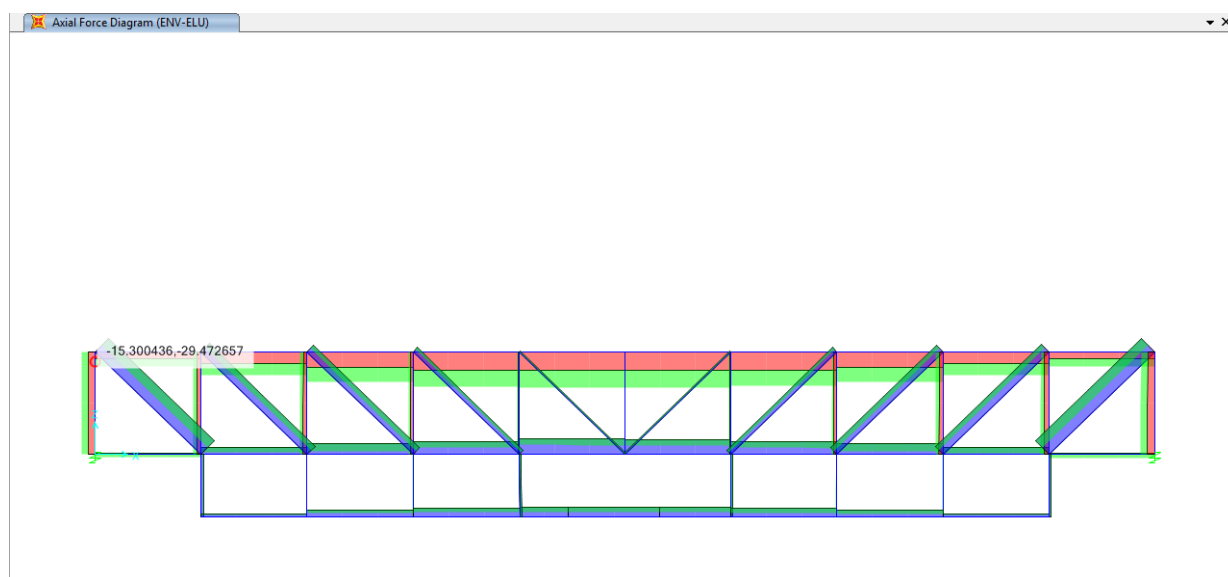
σ_{max}	4,34	Mpa	
σ_{min}	1,15	Mpa	
σ_e	275	Mpa	
e_{min}	0,316	mm	OK, $e > e_{min}$

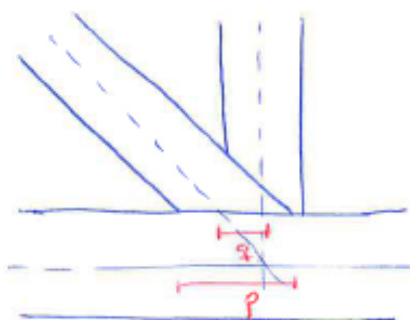
4.6 ELU – COMPROBACIÓN DE PERFILES



4.7 ELU – COMPROBACIÓN DE NUDOS







$N_{max \text{ diagonal}} =$

$$\begin{array}{l} p = 14.75 \text{ cm} \\ q = 7.59 \text{ cm} \end{array} \quad \left| \quad dw = \left(\frac{q}{p} \right) \cdot lw = \frac{7.59}{14.75} \cdot lw = 51.46 \text{ g}$$

NEB 140

$$\begin{array}{l} dw = 11.6 \text{ cm} \\ tw = 0.7 \text{ cm} \end{array} \quad \left| \quad \frac{dw}{tw} = \frac{11.6}{0.7} = 16.57$$

$$\varepsilon = 0.92$$

$$72 \varepsilon = 66.24$$

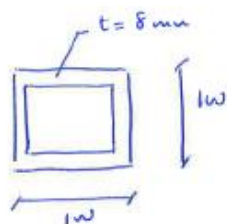
$$33 \varepsilon = 30.36$$

$$\frac{36 \varepsilon}{\alpha} = \frac{33.12}{\alpha} \xrightarrow{\alpha=0.5} 66.24$$

$$\frac{396 \varepsilon}{13 \alpha - 1} = \frac{364.32}{13 \cdot 0.5 - 1} = \frac{364.32}{5.5} = 66.24$$

$$= \frac{364.32}{13 \cdot 1 - 1} = 30.36$$

CLOSE 1



$$\begin{array}{l} \text{Compl} \\ \text{o} \\ \text{TAACC.} \end{array} \left| \begin{array}{l} \frac{b_i}{t_i} = \frac{lw}{t_i} = 12.5 \leq 35 \quad \text{de} \\ \frac{h_i}{t_i} = 12.5 \leq 35 \quad \text{de} \end{array} \right.$$

$$\frac{h_i}{b_i} = \frac{100}{lw} \approx 1 \quad 0.5 \leq 1 \leq 2$$

$$\frac{b_o}{t_f} = \frac{140}{12} = 11.66 \Rightarrow \text{CASE 1}$$

$$\frac{b_i}{b_j} = \frac{lw}{lw} = 1 \geq 0.75 \quad \text{de}$$

FOLIO DIAGONAL O MONITORRE

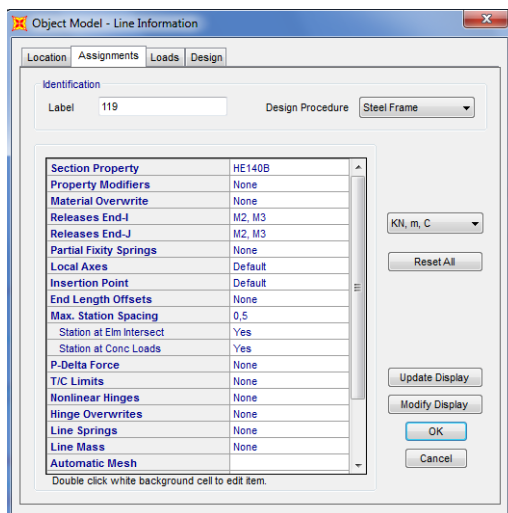
$$N_{lbrd} = f_{ti} \cdot t_i (b_i + b_{eov} + 2h_i - 4t_i) / \gamma_{ms}$$

$$b_{eov} = \frac{10}{b_j/t_j} \cdot \frac{f_{tj} \cdot t_j}{f_{ti} \cdot t_i} \cdot b_i = \frac{10}{\frac{lw}{t_i}} \cdot \frac{275 \cdot 8}{275 \cdot 8} \cdot \frac{100}{1} =$$

$$= 80 \leq b_i = lw \Rightarrow b_{eov} = 80$$

$$\begin{aligned} N_{lbrd} &= 275 \cdot 8 (100 + 80 + 2 \cdot 100 - 4 \cdot 8) / 1 = \\ &= 275 \cdot 8 (180 + 200 - 32) = 275 \cdot 8 \cdot 348 = 765600 \text{ N} = \\ &= 765 \text{ kN} \end{aligned}$$

4.8 EMBROCHALAMIENTO



Cargas

q HEB140	33,7	kg/m, peso por metro lineal de perfil
L	1,2	m, longitud del perfil
	0,04044	T, peso total
	0,4044	kN, peso total
R HEB140	0,2022	kN, reacción
P	10	KN, carga puntual para comprobaciones locales
R P	10	kN, la peor posición es justo encima
γ	1,5	
Rsd	15,3033	kN

Materiales

Tornillos

M	12	
Calidad	8.8	
A	0,843	cm ²
fu	800	Mpa
fy	640	Mpa

Placas

fy	275	Mpa
fu	410	Mpa
γ_{m0}	1,25	

Tornillos que unen los ángulos del brochal

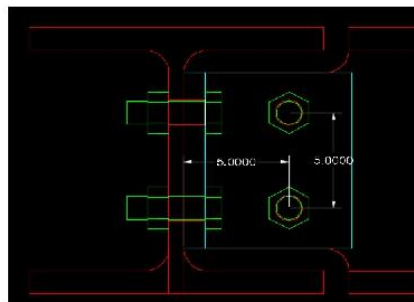
Cortante por tornillo

nf	2	número de filas
nc	1	número de columnas
ntot	2	
e1	50	mm, eje tornillo a cara de viga principal
s ver	50	mm, distancia vertical
Vsd	7651,65	N / tornillo, por cortante
Hsd	15303,30	N / tornillo, por flexión
R1sd	17109,61	N / tornillo, por cortante y flexión

Fvrd

n	2	
γ_{m2}	1,25	
Fvrd	53952	N

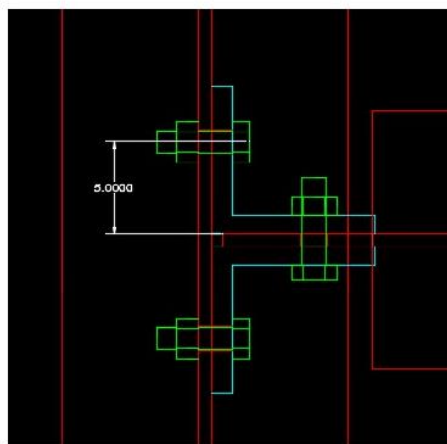
OK, Fvrd > R1sd



Tornillos que unen los ángulos a la viga principal

n	2	ud
nf	2	número de filas
nc	1	número de columnas
ntot	4	
s ver	50	mm, distancia en vertical
Vsd	3825,825	N/ tornillo, debido al cortante
e2	50	mm
twb	7	mm, espesor de alma
e2+ twb/2	53,5	mm
Msd	409363,275	Nmm
Hsd	8187,2655	N
R2sd	9,04	kN
Fvrd		
n	1	
$\gamma/m2$	1,25	
Fvrd	13,8252	kN

OK, Fvrd > R2sd



Comprobación de casquillos en ángulo

Se considera la sección neta del casquillo en la línea de los tornillos

Rsd	15,3033	kN
e3	0,05	m
Msd	0,765165	kNm
n ángulos	2	ud, número de angulares
h ángulos	90	mm, altura del ángulo
b ángulos	10	mm, espesor del ángulo
n holes	2	ud
Φ hole	13	mm
s holes	50	mm
Inercia		
Ib	1215000	mm4, inercia bruta de los angulares
Ia	332323,3333	mm4, inercia de los taladros
Iy	882676,6667	mm4, inercia neta
y max	45	mm
W	19615,04	mm3
σ_{sd}	39,01	N/mm2
f_y/γ_{m2}	220	N/mm2
γ_{m2}	1,25	

OK

Comprobación de la sección debilitada del brochal por pérdida de las alas

Msd	765165	Nmm
tw	7	mm, espesor del alma
hw	90	mm, altura del alma
n holes	2	ud
Φ hole	13	mm
s holes	50	mm
Inercia		
Ib	425250	mm ⁴ , inercia bruta del alma recortada
Ia	116313,1667	mm ⁴ , inercia de los taladros
Iy	308936,8333	mm ⁴ , inercia neta
y max	45	mm
W	6865,26	mm ³
Usd	111,45	N/mm ²
fy/γm2	220	N/mm ²
γm2	1,25	

OK

Comprobación del desgarro del alma

Área bruta

L1	20	mm
Lv	50	mm
L3	20	mm
t	7	mm
A bruta	630	mm ²
γmo	1,05	
Fvrd	95262,79442	N

Área Neta

n	2	
do1	13	mm
nxdo1	26	mm
Anet	448	mm ²
γm2	1,25	
Fvrd	84838,15796	N

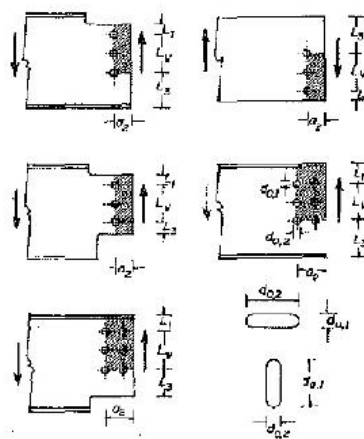
Área efectiva

a2	45	mm
do2	13	mm
k	0,5	
fy	275	Mpa
fu	410	Mpa
L2	57,40	mm
Aeff	891,8	mm ²
γmo	1,05	
Fvrd	134849,7779	N

OK

OK

OK



4.9 ESTRIBO 1.B

4.9.1 ENVOLVENTES ELS-CHK Y ELU

TABLE: Joint Reactions									
Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2	M3
Text	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
27	ENV-ELS-CHK	Combination	Max F1	0,806	-3,666	34,443	0,874	0,056	0,000
27	ENV-ELS-CHK	Combination	Min F1	-13,036	-3,451	46,541	3,989	-0,913	0,041
27	ENV-ELS-CHK	Combination	Max F2	-1,178	0,000	34,443	0,000	-0,082	0,000
27	ENV-ELS-CHK	Combination	Min F2	-4,125	-21,351	46,541	10,292	-0,289	0,041
27	ENV-ELS-CHK	Combination	Max F3	-5,995	-8,629	64,688	9,971	-0,420	0,102
27	ENV-ELS-CHK	Combination	Min F3	-0,312	-12,220	30,003	4,079	-0,022	0,000
27	ENV-ELS-CHK	Combination	Max M1	-3,428	-13,999	63,356	12,212	-0,240	0,102
27	ENV-ELS-CHK	Combination	Min M1	-6,497	0,000	34,443	0,000	-0,455	0,000
27	ENV-ELS-CHK	Combination	Max M2	0,806	-3,666	34,443	0,874	0,056	0,000
27	ENV-ELS-CHK	Combination	Min M2	-13,036	-3,451	46,541	3,989	-0,913	0,041
27	ENV-ELS-CHK	Combination	Max M3	-5,444	-8,629	64,688	9,971	-0,381	0,102
27	ENV-ELS-CHK	Combination	Min M3	-2,879	-12,220	34,443	2,913	-0,202	0,000

TABLE: Joint Reactions									
Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2	M3
Text	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
27	ENV-ELU	Combination	Max F1	1,232	-5,499	46,498	1,311	0,086	0,000
27	ENV-ELU	Combination	Min F1	-19,344	-4,659	62,830	5,385	-1,354	0,055
27	ENV-ELU	Combination	Max F2	-1,744	0,000	46,498	0,000	-0,122	0,000
27	ENV-ELU	Combination	Min F2	-5,925	-31,509	50,775	14,840	-0,415	0,055
27	ENV-ELU	Combination	Max F3	-8,502	-11,649	87,329	13,461	-0,595	0,138
27	ENV-ELU	Combination	Min F3	-0,391	-18,330	27,783	6,118	-0,027	0,000
27	ENV-ELU	Combination	Max M1	-4,651	-19,704	85,331	16,822	-0,326	0,138
27	ENV-ELU	Combination	Min M1	-9,723	0,000	46,498	0,000	-0,681	0,000
27	ENV-ELU	Combination	Max M2	1,232	-5,499	46,498	1,311	0,086	0,000
27	ENV-ELU	Combination	Min M2	-19,344	-4,659	62,830	5,385	-1,354	0,055
27	ENV-ELU	Combination	Max M3	-7,675	-11,649	87,329	13,461	-0,537	0,138
27	ENV-ELU	Combination	Min M3	-4,243	-18,330	34,443	4,370	-0,297	0,000

4.9.2 CALCULO DE TENSIONES EN ELS

Geometría de la zapata		
Rotación E1	14,202	grados
Hext	2,73	m
Bext	1,65	m
Hint	0,53	m
Bint	0,85	m
Aext	4,5045	m ²
Aint	0,4505	m ²
A	4,054	m ²
L	2,3	m
Peso	-233,105	kN
Posición del CDG de los apoyos respecto al CDG de la zapata		
dx	0,56	m
dy	0,05	m
Empuje del agua		
Codo de 11,5°		
Ec	2,47	ton
	24,7	kN
β	7,226	grados, ángulo entre empuje y eje x de la zapata
γ	11,25	grados, ángulo de codo en alzado
$\gamma/2$	5,625	grados
Esfuerzos en el codo		
Ec _x	3,11	kN
Ec _y	24,50	kN
Ec _z	-24,58	kN
Posición del codo respecto al CDG de la zapata		
dx	-0,18	
dy	0,15	
Esfuerzos en cara superior de zapata		
Ec _x '	3,11	kN
Ec _y '	24,50	kN
Ec _z '	-24,58	kN
Mec _x '	-3,69	kNm
Mec _y '	-4,42	kNm
Mec _z '	-4,88	kNm
Esfuerzos en cara inferior de zapata		
Ec _x ''	3,11	kN
Ec _y ''	24,50	kN
Ec _z ''	-24,58	kN
Mec _x ''	-70,58	kNm
Mec _y ''	4,06	kNm
Mec _z ''	-4,88	kNm

Desagüe		
Ed	2,01 20,1	ton kN
β	14,208	grados, ángulo entre empuje y eje x de la zapata
γ	0	grados, ángulo de codo en alzado
$\gamma/2$	0	grados
Esfuerzos en el desagüe		
Edx	4,93	kN
Edy	19,49	kN
Edz	0,00	kN
Posición del desagüe respecto al CDG de la zapata		
dx	0,10	
dy	0,08	
Esfuerzos en cara superior de zapata		
Edx'	4,93	kN
Edy'	19,49	kN
Edz'	0,00	kN
Medx'	0,00	kNm
Medy'	0,00	kNm
Medz'	1,55	kNm
Esfuerzos en cara inferior de zapata		
Edx''	4,93	kN
Edy''	19,49	kN
Edz''	0,00	kN
Medx''	0,00	kNm
Medy''	0,00	kNm
Medz''	1,55	kNm

Esfuerzos totales del agua en cara inferior de zapata																		
Eax	8,04	kN																
Eay	43,99	kN																
Eaz	-24,58	kN																
Meax	-70,58	kNm																
Meay	4,06	kNm																
Meaz	-3,32	kNm																
A	2,3	m																
B	1,65	m																
Area	3,795	m ²																
A x B^2	6,26175	m ³																
B x A^2	8,7285	m ³																
Tensiones en zapata real																		
σ_{max}	2,558	kg/cm ²																
σ_{min}	-0,924	kg/cm ²																
Tensión media en zapata equivalente																		
$\sigma_{med max}$	2,150	kg/cm ²																
$\sigma_{med min}$	1,211	kg/cm ²																
				FX	FY	FZ	MX	MY	MZ	σ_1	σ_2	σ_3	σ_4	ex=My/N	ey=Mx/N	B*	L*	Pm = N/B* x A*
Apoyo				KN	KN	KN	KN-m	KN-m	KN-m	Mpa	Mpa	Mpa	Mpa	m	m	m	m	Mpa
27	ENV-ELS-CHK	Combination	Max F1	8,158	47,741	-292,129	-83,408	23,826	-1,228	0,013	0,173	-0,019	0,141	-0,082	0,286	2,137	1,079	0,127
27	ENV-ELS-CHK	Combination	Min F1	21,525	44,137	-304,227	-76,955	68,796	-3,955	0,054	0,201	-0,041	0,107	-0,226	0,253	1,848	1,144	0,144
27	ENV-ELS-CHK	Combination	Max F2	9,182	43,700	-292,129	-71,495	26,543	-3,542	0,027	0,164	-0,010	0,127	-0,091	0,245	2,118	1,161	0,119
27	ENV-ELS-CHK	Combination	Min F2	17,278	63,676	-304,227	-136,561	58,144	7,199	-0,011	0,251	-0,091	0,171	-0,191	0,449	1,918	0,752	0,211
27	ENV-ELS-CHK	Combination	Max F3	15,969	50,883	-322,374	-102,201	64,781	0,039	0,032	0,227	-0,058	0,138	-0,201	0,317	1,898	1,016	0,167
27	ENV-ELS-CHK	Combination	Min F3	11,340	55,759	-287,689	-108,164	30,890	3,103	-0,007	0,201	-0,049	0,158	-0,107	0,376	2,085	0,898	0,154
27	ENV-ELS-CHK	Combination	Max M1	14,797	56,719	-321,042	-120,283	61,212	3,366	0,011	0,242	-0,073	0,158	-0,191	0,375	1,919	0,901	0,186
27	ENV-ELS-CHK	Combination	Min M1	14,339	42,395	-292,129	-67,841	40,981	-4,530	0,040	0,170	-0,016	0,114	-0,140	0,232	2,019	1,186	0,122
27	ENV-ELS-CHK	Combination	Max M2	8,158	47,741	-292,129	-83,408	23,826	-1,228	0,013	0,173	-0,019	0,141	-0,082	0,286	2,137	1,079	0,127
27	ENV-ELS-CHK	Combination	Min M2	21,525	44,137	-304,227	-76,955	68,796	-3,955	0,054	0,201	-0,041	0,107	-0,226	0,253	1,848	1,144	0,144
27	ENV-ELS-CHK	Combination	Max M3	15,434	51,018	-322,374	-102,580	63,284	0,142	0,030	0,227	-0,057	0,140	-0,196	0,318	1,907	1,014	0,167
27	ENV-ELS-CHK	Combination	Min M3	13,829	55,129	-292,129	-105,492	40,060	2,626	0,003	0,206	-0,052	0,151	-0,137	0,361	2,026	0,928	0,155

4.9.3 CALCULO DE TENSIONES EN ELU

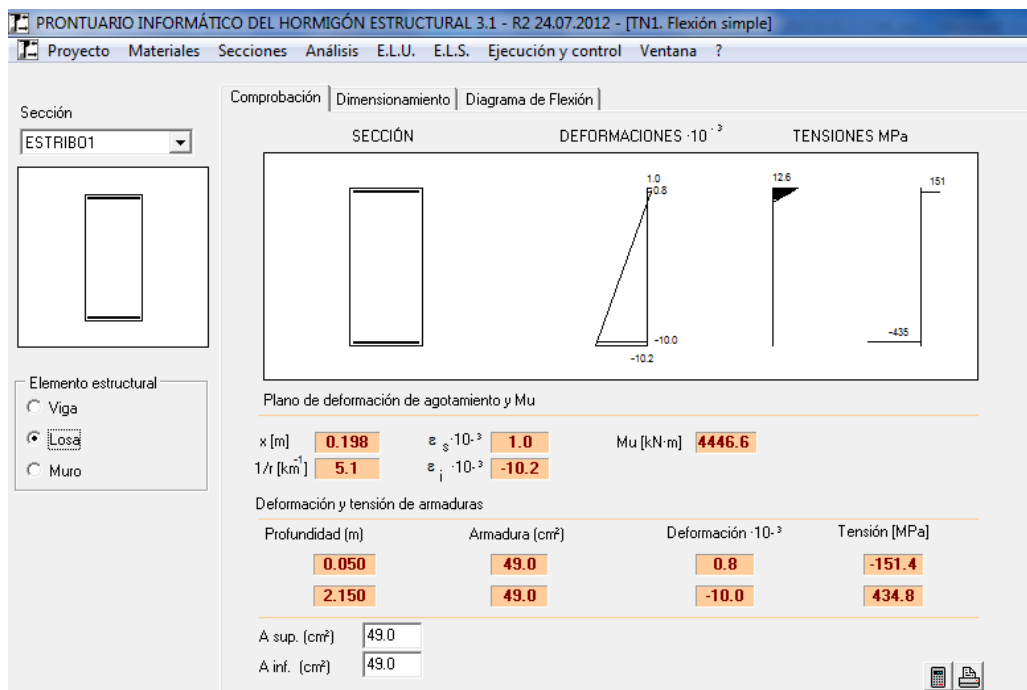
Geometría de la zapata		
Rotación E1	14,202	grados
Hext	2,73	m
Bext	1,65	m
Hint	0,53	m
Bint	0,85	m
Aext	4,5045	m ²
Aint	0,4505	m ²
A	4,054	m ²
L	2,3	m
Peso x 1,35	-314,69175	kN
Posición del CDG de los apoyos respecto al CDG de la zapata		
dx	0,56	m
dy	0,05	m
Empuje del agua		
Codo de 11,5 º		
Ec	3,3345	ton
	33,345	kN
β	7,226	grados, ángulo entre empuje y eje x de la zapata
γ	11,25	grados, ángulo de codo en alzado
$\gamma/2$	5,625	grados
Esfuezos en el codo		
Ec _x	4,19	kN
Ec _y	33,08	kN
Ec _z	-33,18	kN
Posición del codo respecto al CDG de la zapata		
dx	-0,18	
dy	0,15	
Esfuerzos en cara superior de zapata		
Ec _x '	4,19	kN
Ec _y '	33,08	kN
Ec _z '	-33,18	kN
Mec _x '	-4,98	kNm
Mec _y '	-5,97	kNm
Mec _z '	-6,58	kNm
Esfuerzos en cara inferior de zapata		
Ec _x "	4,19	kN
Ec _y "	33,08	kN
Ec _z "	-33,18	kN
Mec _x "	-95,29	kNm
Mec _y "	5,48	kNm
Mec _z "	-6,58	kNm

Desagüe		
Ed x 1,35	2,7135	ton
	27,135	kN
β	14,208	grados, ángulo entre empuje y eje x de la zapata
γ	0	grados, ángulo de codo en alzado
$\gamma/2$	0	grados
Esfuezos en el desagüe		
Edx	6,66	kN
Edy	26,30	kN
Edz	0,00	kN
Posición del desagüe respecto al CDG de la zapata		
dx	0,10	
dy	0,08	
Esfuerzos en cara superior de zapata		
Edx'	6,66	kN
Edy'	26,30	kN
Edz'	0,00	kN
Medx'	0,00	kNm
Medy'	0,00	kNm
Medz'	2,10	kNm
Esfuerzos en cara inferior de zapata		
Edx''	6,66	kN
Edy''	26,30	kN
Edz''	0,00	kN
Medx''	0,00	kNm
Medy''	0,00	kNm
Medz''	2,10	kNm

Esfuerzos totales del agua en cara inferior de zapata																		
Eax	10,85	kN																
Eay	59,39	kN																
Eaz	-33,18	kN																
Meax	-95,29	kNm																
Meay	5,48	kNm																
Meaz	-4,49	kNm																
A	2,3	m																
B	1,65	m																
Area	3,795	m2																
A x B^2	6,26175	m3																
B x A^2	8,7285	m3																
Tensiones en zapata real																		
σmax	3,465	kg/cm2																
σmin	-1,324	kg/cm2																
Tensión media en zapata equivalente																		
σmed max	3,063	kg/cm2																
σmed min	1,636	kg/cm2																
				FX	FY	FZ	MX	MY	MZ	σ1	σ2	σ3	σ4	ex=My/N	ey=Mx/N	B*	L*	Pm = N/ B* x A*
Apoyo				KN	KN	KN	KN-m	KN-m	KN-m	Mpa	Mpa	Mpa	Mpa	m	m	m	m	Mpa
27	ENV-ELU	Combination	Max F1	11,009	65,018	-394,374	-114,282	32,176	-1,339	0,017	0,236	-0,028	0,191	-0,082	0,290	2,137	1,070	0,172
27	ENV-ELU	Combination	Min F1	30,751	59,156	-410,707	-102,691	97,613	-5,664	0,077	0,274	-0,057	0,140	-0,238	0,250	1,825	1,150	0,196
27	ENV-ELU	Combination	Max F2	12,545	58,957	-394,374	-96,413	36,251	-4,810	0,036	0,221	-0,013	0,171	-0,092	0,244	2,116	1,161	0,161
27	ENV-ELU	Combination	Min F2	24,329	88,478	-398,651	-191,533	74,740	11,077	-0,027	0,340	-0,130	0,237	-0,187	0,480	1,925	0,689	0,301
27	ENV-ELU	Combination	Max F3	21,955	68,592	-435,205	-137,691	88,565	-0,023	0,044	0,307	-0,078	0,186	-0,204	0,316	1,893	1,017	0,226
27	ENV-ELU	Combination	Min F3	15,731	77,059	-375,659	-150,850	35,876	5,168	-0,021	0,268	-0,070	0,219	-0,096	0,402	2,109	0,847	0,210
27	ENV-ELU	Combination	Max M1	20,197	77,345	-433,207	-164,813	83,212	4,967	0,013	0,329	-0,101	0,215	-0,192	0,380	1,916	0,889	0,254
27	ENV-ELU	Combination	Min M1	20,280	57,000	-394,374	-90,932	57,908	-6,293	0,057	0,231	-0,023	0,151	-0,147	0,231	2,006	1,189	0,165
27	ENV-ELU	Combination	Max M2	11,009	65,018	-394,374	-114,282	32,176	-1,339	0,017	0,236	-0,028	0,191	-0,082	0,290	2,137	1,070	0,172
27	ENV-ELU	Combination	Min M2	30,751	59,156	-410,707	-102,691	97,613	-5,664	0,077	0,274	-0,057	0,140	-0,238	0,250	1,825	1,150	0,196
27	ENV-ELU	Combination	Max M3	21,153	68,795	-435,205	-138,259	86,320	0,131	0,042	0,306	-0,077	0,188	-0,198	0,318	1,903	1,015	0,225
27	ENV-ELU	Combination	Min M3	19,464	76,114	-382,319	-146,842	49,631	4,452	-0,006	0,276	-0,074	0,207	-0,130	0,384	2,040	0,882	0,212

4.9.4 MOMENTO FLECTOR EN ELS Y ELU

Momento en ELS					
qs max	2,56	kg/cm2			
	255,85	kN/m2			
B	1,65	m			
L	2,3	m			
Mserv	676,72	kNm/m			
Momento en ELU					
qd elu	3,47	kg/cm2			
	346,53	kN/m2			
B	1,65	m			
L	2,3	m			
Mserv	916,58	kNm/m			



PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección
ESTRIB01

Definición específica del armado

nº de capas 1
φ [mm] 25

As [cm²] 49.1
Ac,eficaz [cm²] 3000.0

capa	n barras	sv [mm]
1	10	112.5

Separación media entre fisuras s_m [mm]
Deformación media de las armaduras ϵ_{sm} [‰]
Tensión en las armaduras en el instante de fisuración del hormigón σ_{sr} [MPa]
Tensión en las armaduras en servicio σ_s [MPa]
Abertura característica de fisura w_k [mm]

Valores máximos de la abertura de fisura

Clase de exposición	w max [mm]	
	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2¹
IIIa, IIIb, IV, F	0.2	Descompresión
IIIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

Mk [kN·m] 705

PRONTUARIO INFORMÁTICO DEL HORMIGÓN 3.1

El momento solicitante es menor que el momento de fisuración $M_{fis}=2181.0$, la fisuración es mínima

OK

4.9.5 DESLIZAMIENTO

A	2,3	m					
B	1,65	m					
				FX	FY	Fhor	FZ
				KN	KN		KN
27	ENV-ELU	Combination	Max F1	11,01	65,02	65,94	-394,37
27	ENV-ELU	Combination	Min F1	30,75	59,16	66,67	-410,71
27	ENV-ELU	Combination	Max F2	12,55	58,96	60,28	-394,37
27	ENV-ELU	Combination	Min F2	24,33	88,48	91,76	-398,65
27	ENV-ELU	Combination	Max F3	21,95	68,59	72,02	-435,20
27	ENV-ELU	Combination	Min F3	15,73	77,06	78,65	-375,66
27	ENV-ELU	Combination	Max M1	20,20	77,35	79,94	-433,21
27	ENV-ELU	Combination	Min M1	20,28	57,00	60,50	-394,37
27	ENV-ELU	Combination	Max M2	11,01	65,02	65,94	-394,37
27	ENV-ELU	Combination	Min M2	30,75	59,16	66,67	-410,71
27	ENV-ELU	Combination	Max M3	21,15	68,79	71,97	-435,20
27	ENV-ELU	Combination	Min M3	19,46	76,11	78,56	-382,32
			MAX	30,75	88,48	91,76	-375,66
			MIN	11,01	57,00	60,28	-435,20
Fhor max	91,76	kN					
A	3,80	m2					
$\tau_{\sigma d}$	24,18	kN/m2					
	0,0242	Mpa					

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TT5. Rasante entre juntas de hormigón]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Tipo de Sección
☐ Con armadura transversal
☒ Sin armadura transversal

Hormigón más débil de la junta
 HA-25

☒ Rugosidad baja
☐ Rugosidad Intencional
☐ Rugosidad alta

β 0.20

p [m] 1.6
 L [m] 3

Inclinación de la armadura
 α 90.0

$\tau_{r,d}$ [MPa] 0.0
 Nd [kN] 0.0
 σ_{cd} [MPa] 0.0

Comprobación | Dimensionamiento

Esfuerzo rasante resistente
 $\tau_{r,u}$ [MPa] 0.24

4.9.6 VUELCO

[illegible]

4.10 ESTRIBO 2.B

4.10.1 ENVOLVENTES ELS-CHK Y ELU

TABLE: Joint Reactions

Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2	M3
Text	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
66	ENV-ELS-CHK	Combination	Max F1	4,882	-3,666	34,580	0,874	0,342	0,000
66	ENV-ELS-CHK	Combination	Min F1	-10,369	-3,449	46,678	4,134	-0,726	-0,024
66	ENV-ELS-CHK	Combination	Max F2	-1,382	0,000	34,580	0,000	-0,097	0,000
66	ENV-ELS-CHK	Combination	Min F2	1,733	-21,349	46,678	10,438	0,121	-0,024
66	ENV-ELS-CHK	Combination	Max F3	0,126	-8,621	64,825	10,335	0,009	-0,061
66	ENV-ELS-CHK	Combination	Min F3	-0,423	-12,220	30,140	4,079	-0,030	0,000
66	ENV-ELS-CHK	Combination	Max M1	-2,552	-13,991	63,493	12,576	-0,179	-0,061
66	ENV-ELS-CHK	Combination	Min M1	2,897	0,000	34,580	0,000	0,203	0,000
66	ENV-ELS-CHK	Combination	Max M2	4,882	-3,666	34,580	0,874	0,342	0,000
66	ENV-ELS-CHK	Combination	Min M2	-10,369	-3,449	46,678	4,134	-0,726	-0,024
66	ENV-ELS-CHK	Combination	Max M3	-6,312	0,000	34,580	0,000	-0,442	0,000
66	ENV-ELS-CHK	Combination	Min M3	0,015	-13,991	64,825	12,226	0,001	-0,061

TABLE: Joint Reactions

Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2	M3
Text	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
66	ENV-ELU	Combination	Max F1	7,300	-5,499	46,683	1,311	0,511	0,000
66	ENV-ELU	Combination	Min F1	-15,457	-4,656	50,912	5,581	-1,082	-0,033
66	ENV-ELU	Combination	Max F2	-2,096	0,000	46,683	0,000	-0,147	0,000
66	ENV-ELU	Combination	Min F2	2,749	-31,506	63,016	15,036	0,192	-0,033
66	ENV-ELU	Combination	Max F3	0,595	-11,639	87,514	13,953	0,042	-0,082
66	ENV-ELU	Combination	Min F3	-0,711	-18,330	27,920	6,118	-0,050	0,000
66	ENV-ELU	Combination	Max M1	-3,422	-19,694	85,516	17,314	-0,240	-0,082
66	ENV-ELU	Combination	Min M1	4,323	0,000	46,683	0,000	0,303	0,000
66	ENV-ELU	Combination	Max M2	7,300	-5,499	46,683	1,311	0,511	0,000
66	ENV-ELU	Combination	Min M2	-15,457	-4,656	50,912	5,581	-1,082	-0,033
66	ENV-ELU	Combination	Max M3	-9,491	0,000	46,683	0,000	-0,664	0,000
66	ENV-ELU	Combination	Min M3	0,376	-19,694	75,411	16,789	0,026	-0,082

4.10.2 CALCULO DE TENSIONES EN ELS

Geometría de la zapata		
Rotación E1	7,596	grados
Hext	1,2	m
Bext	5	m
Hint	0,5	m
Bint	1	m
Aext	6	m2
Aint	0,5	m2
A	5,5	m2
L	1,6	m
Peso	-220	kN
Posición del CDG de los apoyos respecto al CDG de la zapata		
dx	-0,64	m
dy	0,07	m
Empuje del agua		
Codo de 90º		
Ec	17,77	ton
	177,7	kN
β	143,573	grados, ángulo entre empuje y eje y de la zapata
γ	0	grados, ángulo de codo en alzado
$\gamma/2$	0	grados
Esfuezos en el codo		
Ec _x	105,52	kN
Ec _y	-142,98	kN
Ec _z	0,00	kN
Posición del codo respecto al CDG de la zapata		
dx	-0,07	
dy	-0,24	
Esfuezos en cara superior de zapata		
Ec _x '	105,52	kN
Ec _y '	-142,98	kN
Ec _z '	0,00	kN
Mec _x '	0,00	kNm
Mec _y '	0,00	kNm
Mec _z '	35,33	kNm
Esfuezos en cara inferior de zapata		
Ec _x ''	105,52	kN
Ec _y ''	-142,98	kN
Ec _z ''	0,00	kN
Mec _x ''	171,58	kNm
Mec _y ''	126,62	kNm
Mec _z ''	35,33	kNm

[illegible]

Geometría de la zapata		
Rotación E1	7,596	grados
Hext	1,2	m
Bext	5	m
Hint	0,5	m
Bint	1	m
Aext	6	m2
Aint	0,5	m2
A	5,5	m2
L	1,6	m
Peso x 1,35	-297	kN
Posición del CDG de los apoyos respecto al CDG de la zapata		
dx	-0,64	m
dy	0,07	m
Empuje del agua		
Codo de 90º		
Ec	23,9895	ton
	239,895	kN
β	143,573	grados, ángulo entre empuje y eje x de la zapata
γ	0	grados, ángulo de codo en alzado
$\gamma/2$	0	grados
Esfuezos en el codo		
Ecx	142,45	kN
Ecy	-193,02	kN
Ecz	0,00	kN
Posición del codo respecto al CDG de la zapata		
dx	-0,07	
dy	-0,24	
Esfuerzos en cara superior de zapata		
Ecx'	142,45	kN
Ecy'	-193,02	kN
Ecz'	0,00	kN
Mecx'	0,00	kNm
Mecy'	0,00	kNm
Mecz'	47,70	kNm
Esfuerzos en cara inferior de zapata		
Ecx''	142,45	kN
Ecy''	-193,02	kN
Ecz''	0,00	kN
Mecx''	231,63	kNm
Mecy''	170,94	kNm
Mecz''	47,70	kNm

Desagüe		
Ed x 1,35	0	ton
	0	kN
β	0	grados, ángulo entre empuje y eje x de la zapata
γ	0	grados, ángulo de codo en alzado
$\gamma/2$	0	grados
Esfuerzos en el desagüe		
Edx	0,00	kN
Edy	0,00	kN
Edz	0,00	kN
Posición del desagüe respecto al CDG de la zapata		
dx	0,00	
dy	0,00	
Esfuerzos en cara superior de zapata		
Edx'	0,00	kN
Edy'	0,00	kN
Edz'	0,00	kN
Medx'	0,00	kNm
Medy'	0,00	kNm
Medz'	0,00	kNm
Esfuerzos en cara inferior de zapata		
Edx''	0,00	kN
Edy''	0,00	kN
Edz''	0,00	kN
Medx''	0,00	kNm
Medy''	0,00	kNm
Medz''	0,00	kNm
Esfuerzos totales del agua en cara inferior de zapata		
Eax	142,45	kN
Eay	-193,02	kN
Eaz	0,00	kN
Meax	231,63	kNm
Meay	170,94	kNm
Meaz	47,70	kNm

[illegible]

4.10.4 MOMENTO FLECTOR EN ELS Y ELU

Momento en ELS					
qs max	1,12	kg/cm2			
	112,19	kN/m2			
B/2	2,5	m			
L	1,6	m			
Mserv	350,60	kNm/m			
Momento en ELU					
qd elu	1,54	kg/cm2			
	154,02	kN/m2			
B/2	2,5	m			
L	1,6	m			
Melu	481,31	kNm/m			

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección
ZAPATA

Definición específica del armado

nº de capas: 1
φ [mm]: 32

Separación media entre fisuras s_m [mm]: 155.0
Deformación media de las armaduras ϵ_{sm} [‰]: 0.30
Tensión en las armaduras en el instante de fisuración del hormigón σ_{sr} [MPa]: 51.5
Tensión en las armaduras en servicio σ_s [MPa]: 77.7
Abertura característica de fisura w_k [mm]: 0.08

Valores máximos de la abertura de fisura

Clase de exposición	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2 ¹
IIa, IIb, IV, F	0.2	Descompresión
IIIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

Recubrimiento de la armadura longitudinal c [mm]: 50
Solicitación: ☒ Flexión simple ☐ Tracción simple
Mk [kN·m]: 350

A_s [cm²]: 80.4
A_{s,eficaz} [cm²]: 1750.0
capa: 1 n barras: 10 sv [mm]: 66.0

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TN1. Flexión simple]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección
ZAPATA

Comprobación | Dimensionamiento | Diagrama de Flexión

SECCIÓN DEFORMACIONES · 10⁻³ TENSIONES MPa

Plano de deformación de agotamiento y Mu

x [m]: 0.226 $\epsilon_s \cdot 10^{-3}$: 3.5 Mu [kN·m]: 1953.4
1/x [1/m]: 15.5 $\epsilon_s \cdot 10^{-3}$: -7.3

Definición y tensión de armaduras

Profundidad [m]	Armadura [cm²]	Deformación · 10 ⁻³	Tensión [MPa]
0.050	10.0	2.7	-434.8
0.650	80.0	-6.6	434.8

A sup. [cm²]: 10.0
A inf. [cm²]: 80.0

4.10.5 DESLIZAMIENTO

A	1,6	m					
B	5	m					
				FX	FY	Fhor	FZ
				KN	KN		KN
66	ENV-ELU	Combination	Max F1	135,94	-186,61	230,87	-343,68
66	ENV-ELU	Combination	Min F1	158,39	-190,45	247,71	-347,91
66	ENV-ELU	Combination	Max F2	144,53	-193,30	241,36	-343,68
66	ENV-ELU	Combination	Min F2	143,89	-161,43	216,25	-360,02
66	ENV-ELU	Combination	Max F3	143,40	-181,41	231,24	-384,51
66	ENV-ELU	Combination	Min F3	145,58	-174,95	227,59	-324,92
66	ENV-ELU	Combination	Max M1	148,44	-173,95	228,68	-382,52
66	ENV-ELU	Combination	Min M1	138,16	-192,45	236,91	-343,68
66	ENV-ELU	Combination	Max M2	135,94	-186,61	230,87	-343,68
66	ENV-ELU	Combination	Min M2	158,39	-190,45	247,71	-347,91
66	ENV-ELU	Combination	Max M3	151,86	-194,28	246,59	-343,68
66	ENV-ELU	Combination	Min M3	144,68	-173,45	225,87	-372,41
			MAX	158,39	-161,43	247,71	-324,92
			MIN	135,94	-194,28	216,25	-384,51
Fhor max	247,71	kN					
A	8,00	m2					
$\tau \sigma d$	30,96	kN/m2					
	0,0310	Mpa					

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TT5. Rasante entre juntas de hormigón]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Tipo de Sección
☐ Con armadura transversal
☒ Sin armadura transversal

Hormigón más débil de la junta
 HA-25

Rugosidad baja
☒ Rugosidad Intencional
☐ Rugosidad alta

β 0.20

p [m] 5
 L [m] 1.6

Inclinación de la armadura
 α 90.0

$\tau_{r,d}$ [MPa] 0.031
 N_d [kN] 0.0
 σ_{cd} [MPa] 0.0

Comprobación Dimensionamiento

Diagrama de un elemento de hormigón sometido a esfuerzos R_{md} , T_{md} , N_{ed} , σ_{ed} . Se muestran las dimensiones A_{st} , L , p , α y la separación s entre barras.

Sección de las barras que cosen la junta
 A_{st} [cm²] 0.0

Límite superior de tensión rasante resistente
 $\tau_{ru,max}$ [MPa] 0.0

PRONTUARIO INFORMÁTICO D... X

No se precisa armadura transversal

Separación que se desea tener entre las barras que cosen la junta [cm] 10.0

OK

4.10.6 VUELCO

[illegible]

4.11 DIMENSIONES ADOPTADAS

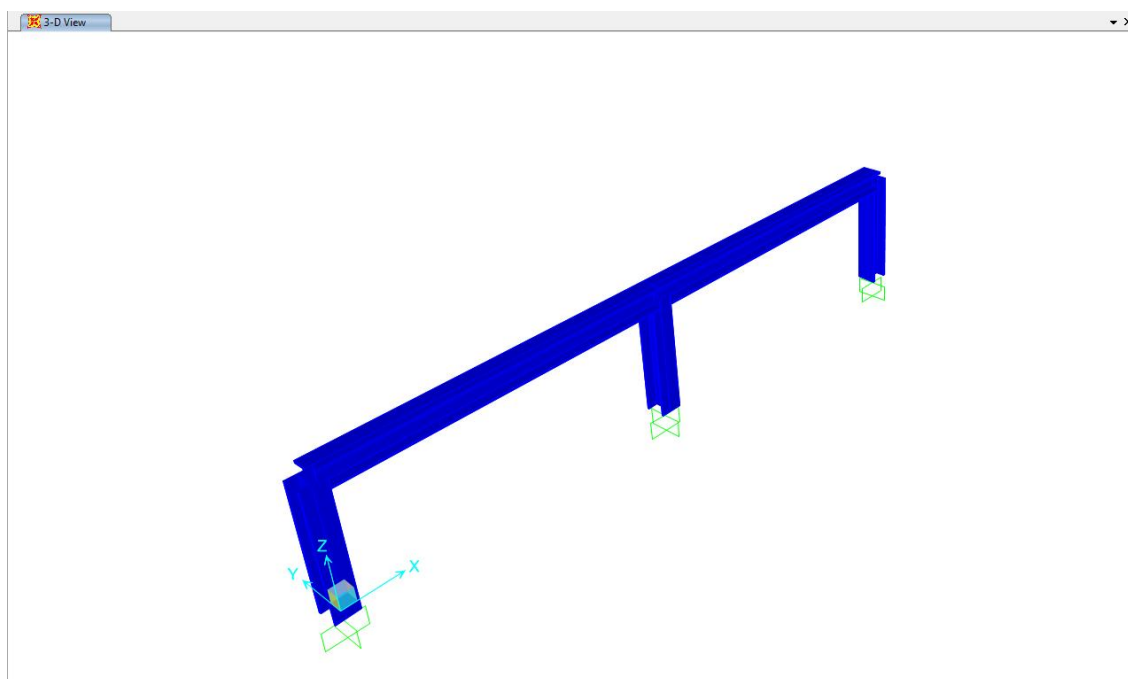
Tras los cálculos realizados se adoptan las siguientes dimensiones para la pasarela sobre el canal de descarga:

- Celosía de 11,5 m de longitud, canto 1,30 m y montantes separados 1,15 m entre ejes.
 - Cordones superiores e inferiores formados por cordones HEB 140
 - Diagonales y montantes formados por perfiles tubulares cuadrados de 100 x 100 x 8 mm
 - Perfiles transversales inferiores formados por perfiles HEB 140.
 - Trámex de apoyo sobre los cordones inferiores de pletinas de 30 x 3 mm en malla de 20 x 20 mm.
 - Para dar rigidez transversal a la estructura y permitir el acceso a la plataforma de apoyo de la tubería se diseñan dos tipos de uniones entre los perfiles transversales y los cordones inferiores. El primer tipo es una unión rígida mediante soldaduras a tope, y el segundo tipo es una unión atornillada articulada.
- Plataforma de apoyo de la tubería de 9,34 m de longitud, 1,19 m de ancho y 0,57 m de altura libre.
 - 2 perfiles HEB 140 longitudinales y 10 perfiles HEB 140 transversales.
 - La plataforma cuelga de la celosía mediante perfiles tubulares de 100 x 100 x 10 mm excepto en la zona de mayor desviación transversal de la tubería, donde los perfiles son UPN 80.
 - Trámex antidelizante de apoyo sobre los cordones inferiores de pletinas de 30 x 3 mm en malla de 20 x 20 mm.
 - Las uniones son rígidas.
- Estribo 1B: 1,65 x 2,3 x 2,73 m, con un cajeadado interior que permite el paso de la tubería y el desagüe.
- Estribo 2B: 5,0 x 1,60 x 1,20 m, con un cajeadado interior que permite el paso de la tubería. Este estribo se ancla al azud mediante pernos $\phi 16/0,20$ en todo el contorno del macizo.

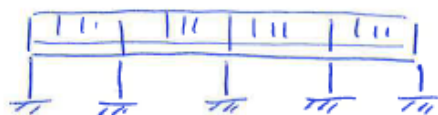
5 CÁLCULO DE LA BARANDILLA

5.1 MODELO DE SAP200

En el Apéndice 4 se muestran los listados de SAP2000.



5.2 CARGAS



CARGAS

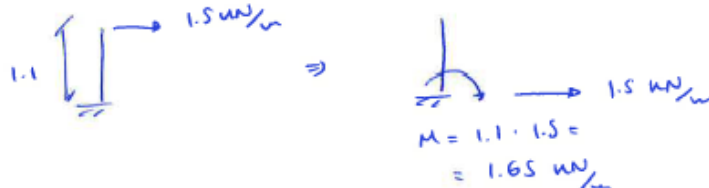
PP → PERFILES

CM → BARANDILLA: 16 kg/m $\left| \begin{array}{l} P = 16 \times 2.15 = 0.342 \text{ kN} \\ L = 2.15 \text{ m} \end{array} \right.$

TRAMEX: 0.42 kN/m^2

$$q = 0.42 \frac{\text{kN}}{\text{m}^2} \cdot 0.5 \frac{\text{m}^2}{\text{m}} = 0.21 \frac{\text{kN}}{\text{m}}$$

SCU → BARANDILLA: 1.5 kN/m



$$N = 2.15 \times 1.5 = 3.225 \text{ kN/m}$$

$$M = 2.15 \times 1.65 = 3.55 \text{ kN/m}$$

→ TRAMEX: 5 kN/m^2

$$q = 5 \frac{\text{kN}}{\text{m}^2} \cdot 0.5 \frac{\text{m}^2}{\text{m}} = 2.5 \frac{\text{kN}}{\text{m}}$$

VIENTO: $P_{\text{viento}} = 455.65 \text{ kN/m}^2$

$C_e = 1.58$ $C_f = 2.1$ $A = 2.15 \times 1.25 = 2.7 \text{ m}^2$

$$F = 455.65 \times 1.58 \times 2.1 \times 2.7 = 4087.98 \text{ N} = 4.1 \text{ kN}$$

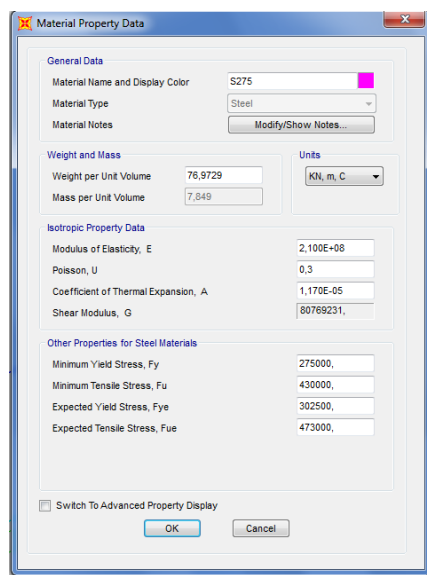
$R_n = \frac{F}{2} = 2.1 \text{ kN}$

$M = 2.1 \cdot \frac{1.1}{2} = 1.16$

TEMP: $+41.6 / -13.12$

5.3 MODELO DE SAP

5.3.1 MATERIALES



Material Property Data

General Data

Material Name and Display Color: S275 ■

Material Type: Steel

Material Notes: [Modify/Show Notes...](#)

Weight and Mass

Weight per Unit Volume: 76,9729

Mass per Unit Volume: 7,849

Units: KN, m, C

Isotropic Property Data

Modulus of Elasticity, E: 2,100E+08

Poisson, U: 0,3

Coefficient of Thermal Expansion, A: 1,170E-05

Shear Modulus, G: 80769231,

Other Properties for Steel Materials

Minimum Yield Stress, Fy: 275000,

Minimum Tensile Stress, Fu: 430000,

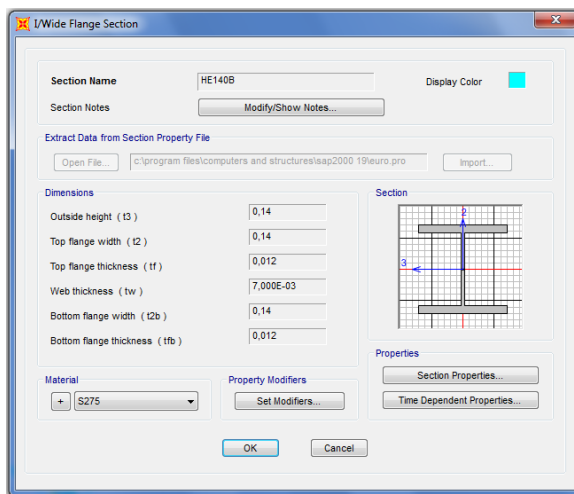
Expected Yield Stress, Fye: 302500,

Expected Tensile Stress, Fue: 473000,

☐ Switch To Advanced Property Display

[OK](#) [Cancel](#)

5.3.2 SECCIONES



I-Wide Flange Section

Section Name: HE140B

Display Color: ■

Section Notes: [Modify/Show Notes...](#)

Extract Data from Section Property File

[Open File...](#) [c:\program files\computers and structures\saap2000 19\euro.pro](#) [Import...](#)

Dimensions

Outside height (t3) : 0,14

Top flange width (t2) : 0,14

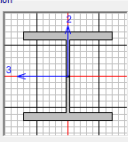
Top flange thickness (tf) : 0,012

Web thickness (tw) : 7,000E-03

Bottom flange width (t2b) : 0,14

Bottom flange thickness (tfb) : 0,012

Section



Properties

[Section Properties...](#)

[Time Dependent Properties...](#)

Material

[+](#) S275

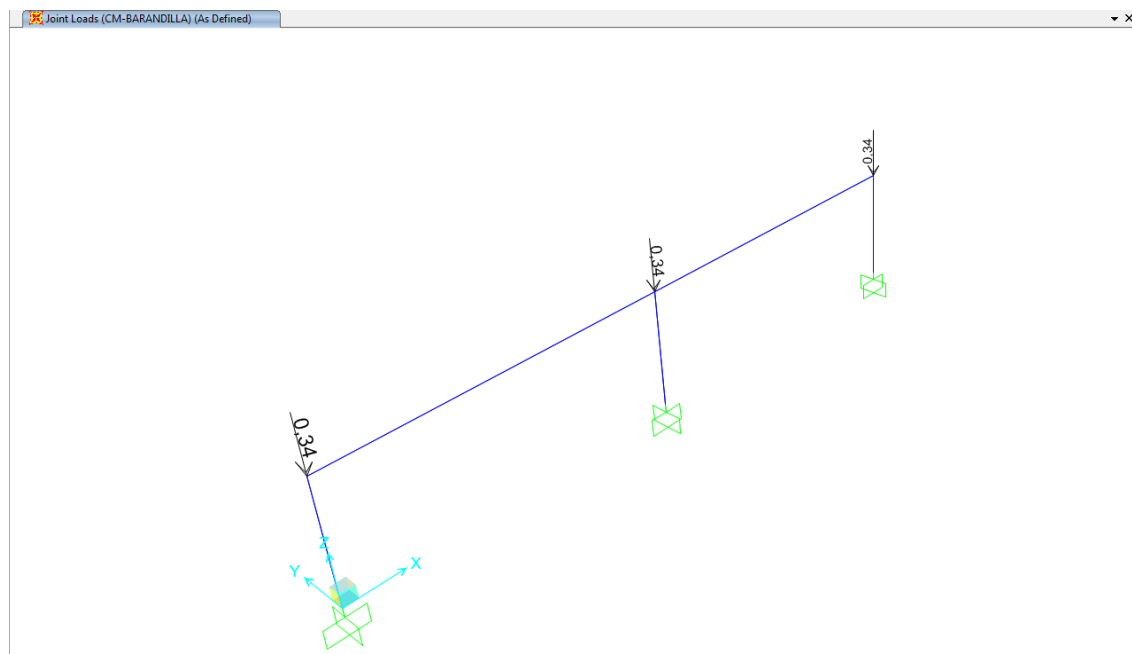
Property Modifiers

[Set Modifiers...](#)

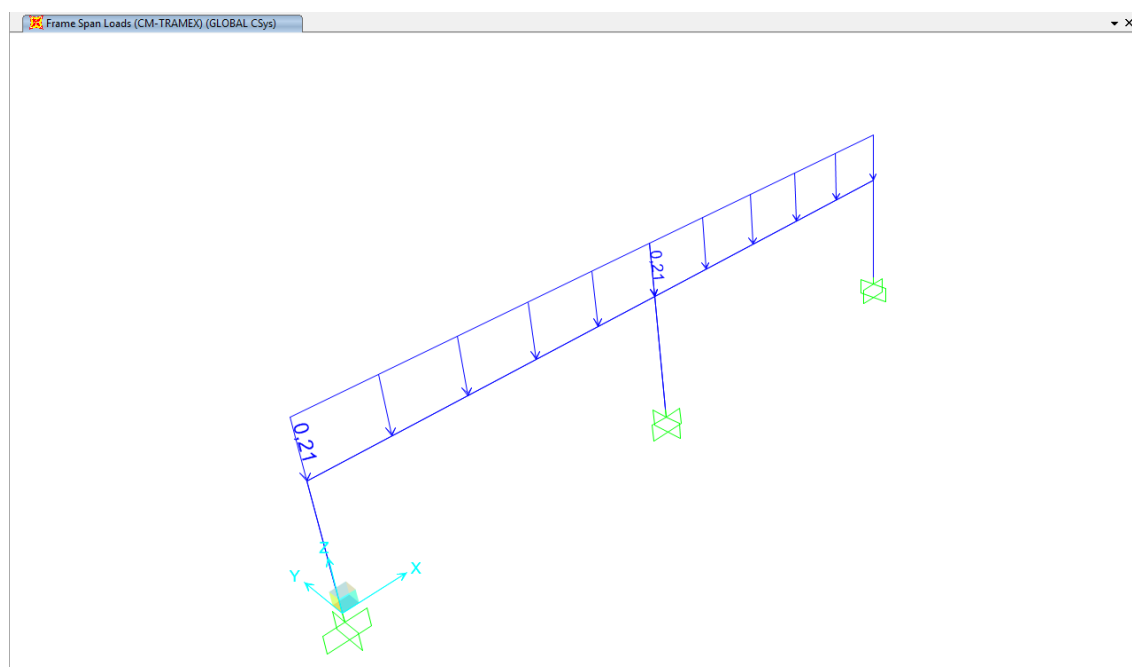
[OK](#) [Cancel](#)

5.3.3 CARGAS

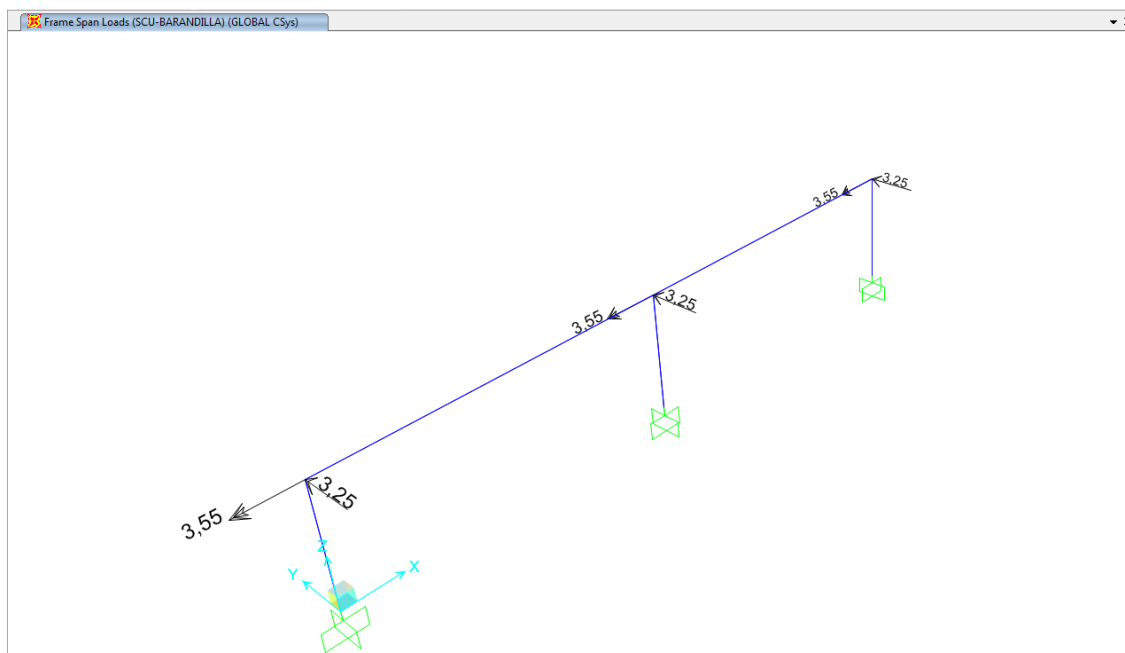
5.3.3.1 CM BARANDILLA



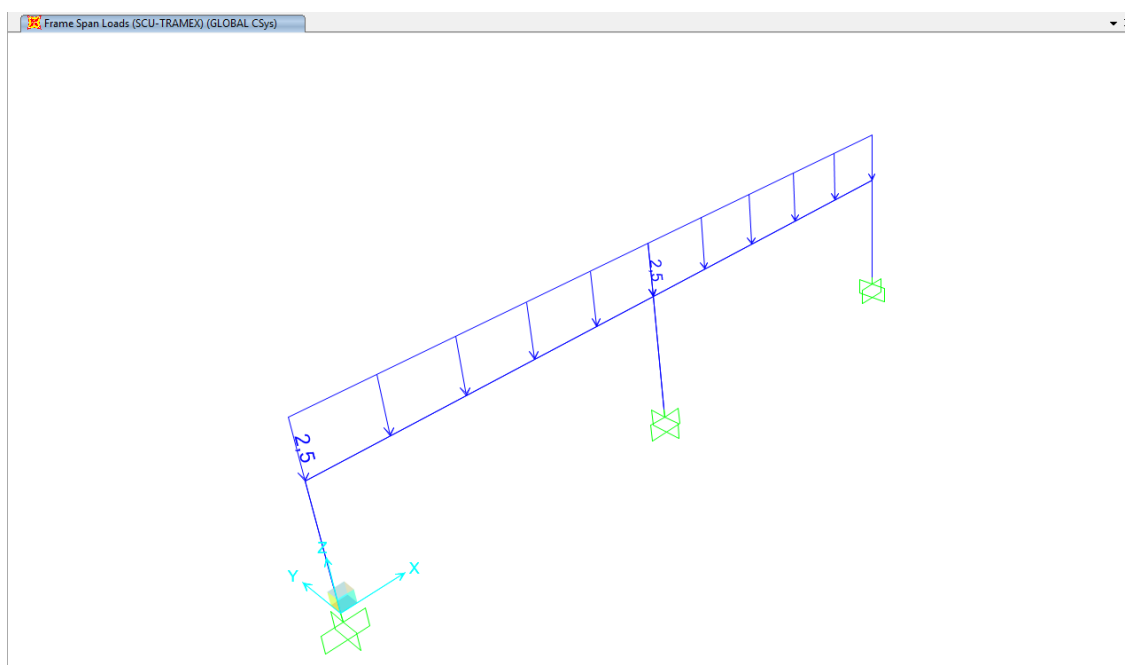
5.3.3.2 CM TRAMEX



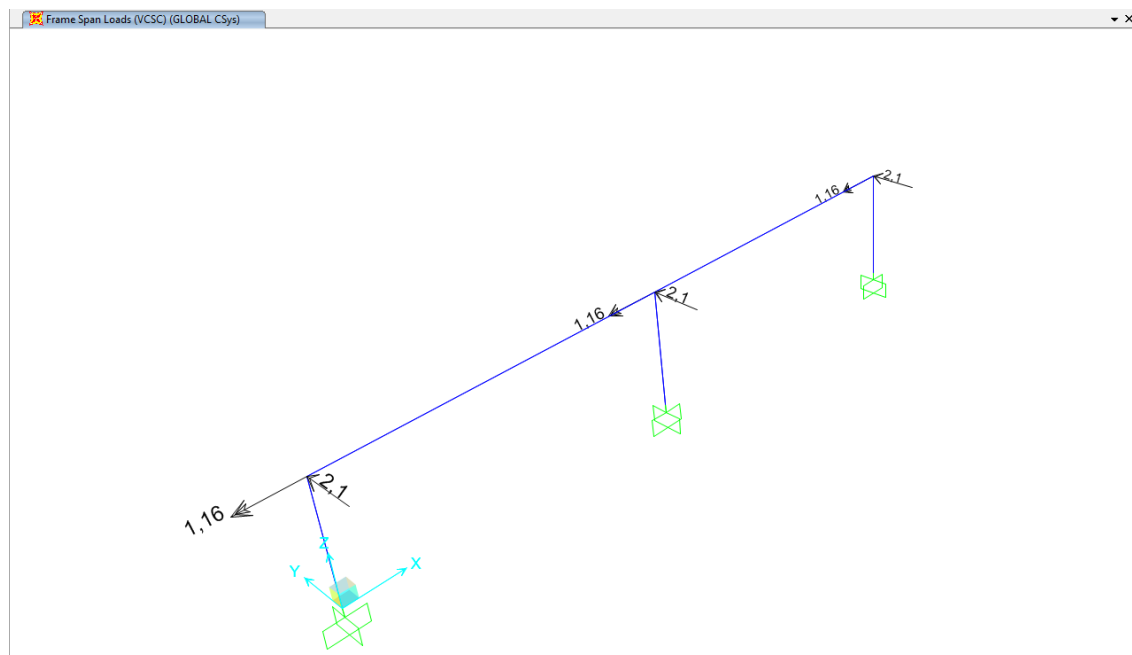
5.3.3.3 SCU BARANDILLA



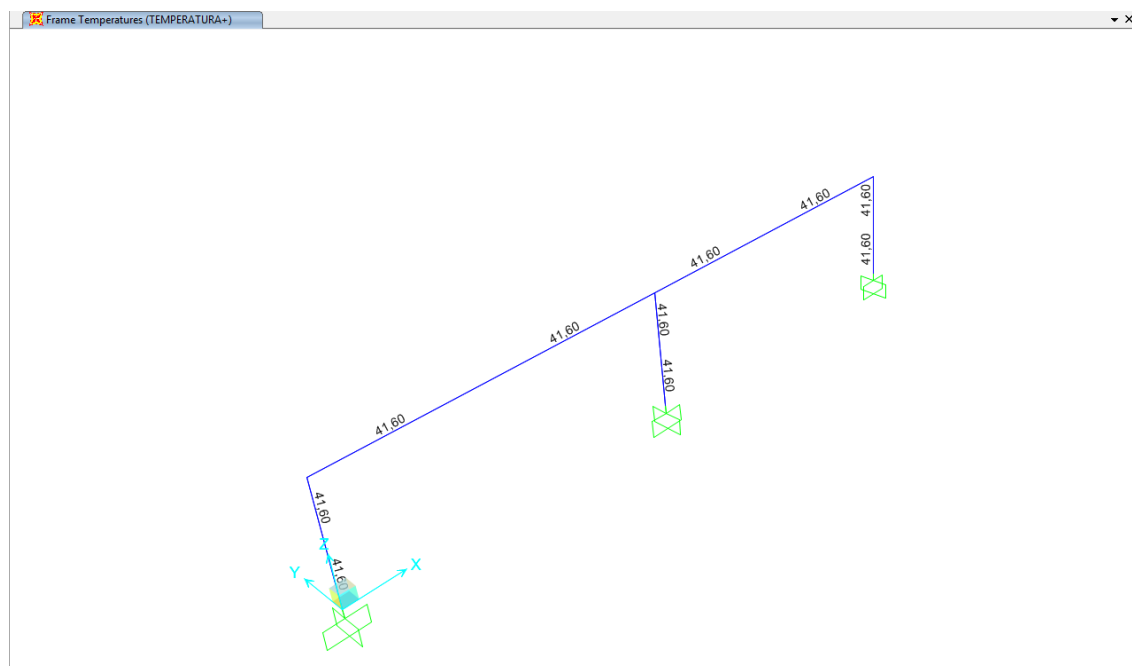
5.3.3.4 SCU TRAMEX



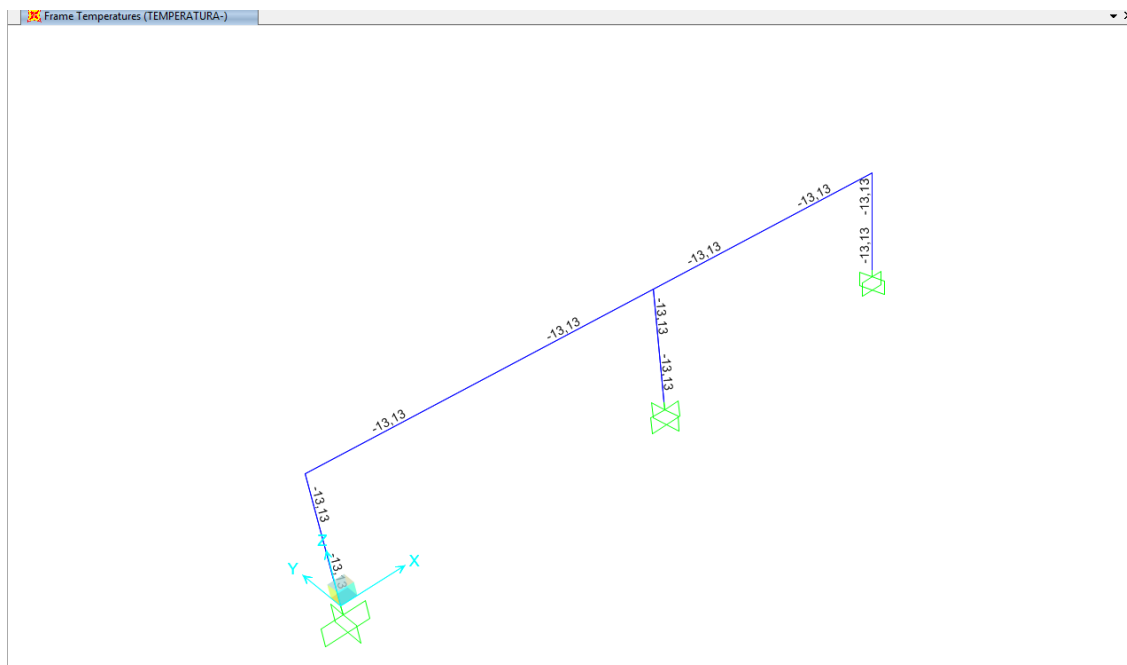
5.3.3.5 VIENTO CON SOBRECARGA



5.3.3.6 TEMPERATURA - DILATACIÓN



5.3.3.7 TEMPERATURA - CONTRACCIÓN



5.3.4 COMBINACIONES

Load Combination Data

Load Combination Name (User-Generated)

Notes

Load Combination Type

Options

Define Combination of Load Case Results

Load Case Name	Load Case Type	Scale Factor
CM-BARANDILLA	Linear Static	1,
CM-BARANDILLA	Linear Static	1,
CM-TRAMEX	Linear Static	1,
DEAD	Linear Static	1,
SCU-BARANDILLA	Linear Static	1,
SCU-TRAMEX	Linear Static	1,
TEMPERATURA-	Linear Static	1,

Load Combination Data

Load Combination Name (User-Generated)

Notes

Load Combination Type

Options

Define Combination of Load Case Results

Load Case Name	Load Case Type	Scale Factor
VCSC	Linear Static	1,5
CM-BARANDILLA	Linear Static	1,35
DEAD	Linear Static	1,35
CM-TRAMEX	Linear Static	1,35
SCU-BARANDILLA	Linear Static	1,5
SCU-TRAMEX	Linear Static	1,5
TEMPERATURA+	Linear Static	1,5
VCSC	Linear Static	1,5

5.3.5 COMPROBACIÓN DE PERFILES

Steel Frame Design Preferences for Eurocode 3-2005

Item	Value
1 Design Code	Eurocode 3-2005
2 Country	CEN Default
3 Combinations Equation	Eq. 6.10
4 Reliability Class	Class 2
5 Interaction Factors Method	Method 2 (Annex B)
6 Multi-Response Case Design	Envelopes
7 Framing Type	DCH-MRF
8 Behavior Factor, η	4
9 System Overstrength Factor, Ω	1
10 Consider P-Delta Done?	No
11 Consider Torsion?	No
12 Γ_{M0}	1
13 Γ_{M1}	1
14 Γ_{M2}	1,25
15 Ignore Seismic Code?	No
16 Ignore Special Seismic Load?	No
17 Is Doubler Plate Plug-Welded?	Yes
18 Consider Deflection?	No
19 DL Limit, L/	120
20 Super DL+LL Limit, L/	120
21 Live Load Limit, L/	360
22 Total Limit, L/	240
23 Total-Camber Limit, L/	240

Item Description

The selected design code. Subsequent design is based on this selected code.

Explanation of Color Coding for Values

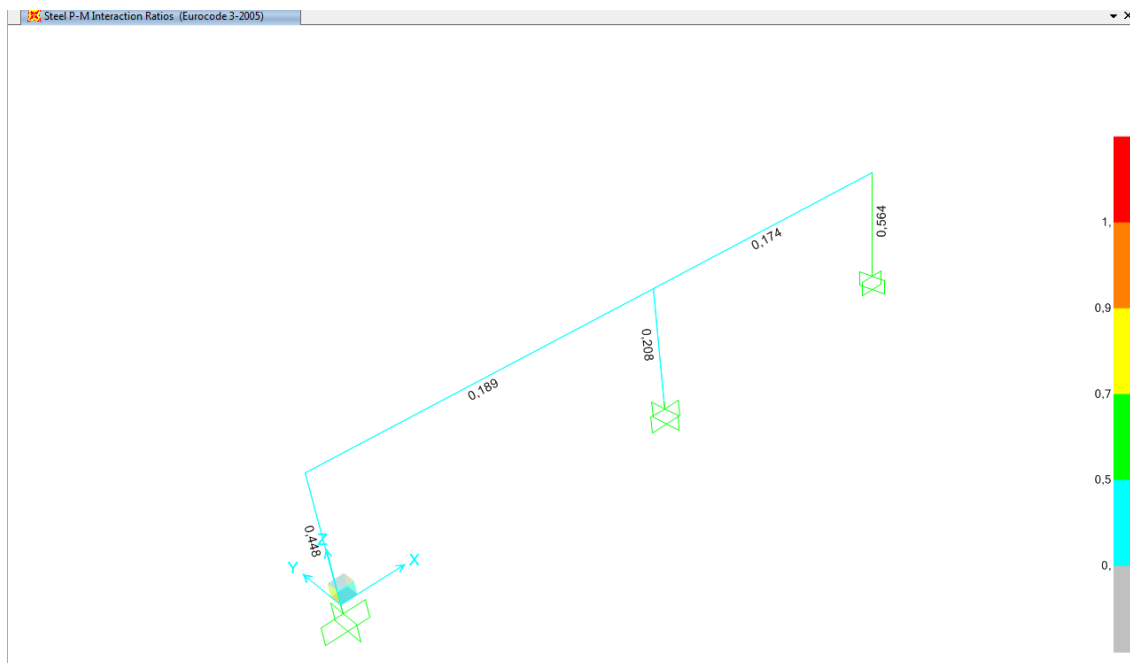
Blue: Default Value

Black: Not a Default Value

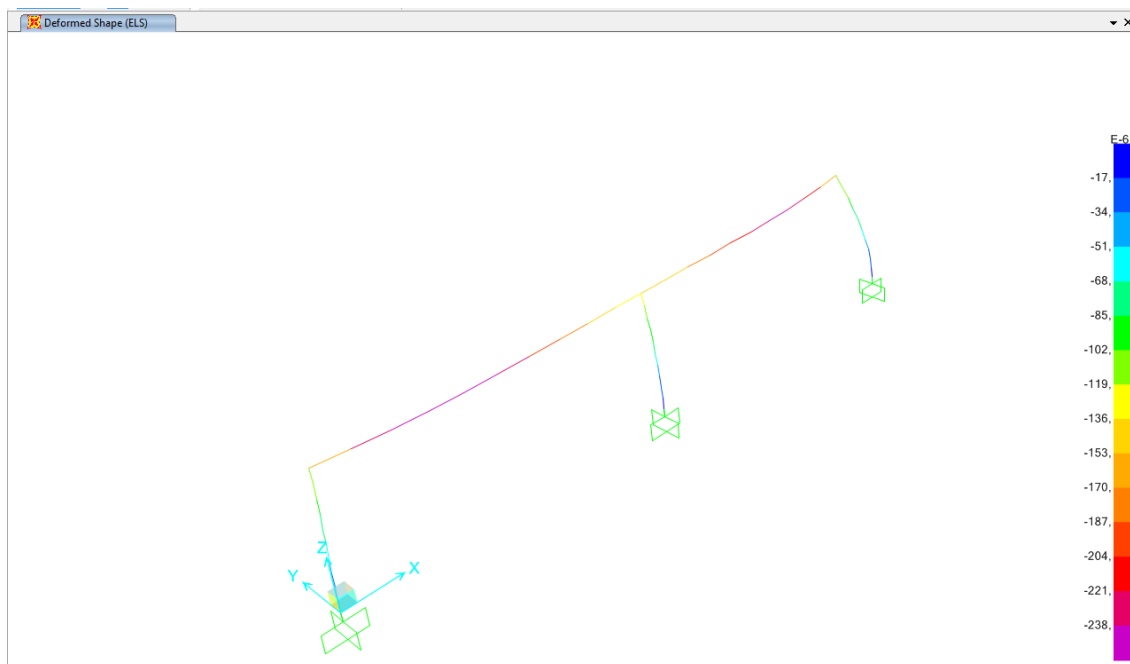
Red: Value that has changed during the current session

Set To Default Values

Reset To Previous Values



5.3.6 ELS DESPLAZAMIENTOS



5.3.7 PLACA DE ANCLAJE

5.3.7.1 REACCIONES

TABLE: Joint Reactions								
Joint	OutputCase	CaseType	F1	F2	F3	M1	M2	M3
Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
1	DEAD	LinStatic	0,12	0,00	0,58	0,00	0,03	0,00
1	CM-BARANDILLA	LinStatic	0,00	0,00	0,34	0,00	0,00	0,00
1	CM-TRAMEX	LinStatic	0,08	0,00	0,20	0,00	0,02	0,00
1	SCU-BARANDILLA	LinStatic	0,00	-3,10	0,00	6,03	0,00	0,00
1	SCU-TRAMEX	LinStatic	0,90	0,00	2,38	0,00	0,23	0,00
1	VCSC	LinStatic	0,00	-2,04	0,00	2,79	0,00	0,00
1	TEMPERATURA+	LinStatic	18,11	0,00	4,04	0,00	8,73	0,00
1	TEMPERATURA-	LinStatic	-5,71	0,00	-1,28	0,00	-2,75	0,00
4	DEAD	LinStatic	0,00	0,00	1,05	0,00	0,00	0,00
4	CM-BARANDILLA	LinStatic	0,00	0,00	0,34	0,00	0,00	0,00
4	CM-TRAMEX	LinStatic	0,00	0,00	0,50	0,00	0,00	0,00
4	SCU-BARANDILLA	LinStatic	0,00	-3,55	0,00	6,40	0,00	0,00
4	SCU-TRAMEX	LinStatic	0,00	0,00	5,93	0,00	0,01	0,00
4	VCSC	LinStatic	0,00	-2,23	0,00	2,95	0,00	0,00
4	TEMPERATURA+	LinStatic	2,81	0,00	-7,14	0,00	1,22	0,00
4	TEMPERATURA-	LinStatic	-0,89	0,00	2,25	0,00	-0,39	0,00
5	DEAD	LinStatic	-0,12	0,00	0,59	0,00	-0,01	0,00
5	CM-BARANDILLA	LinStatic	0,00	0,00	0,34	0,00	0,00	0,00
5	CM-TRAMEX	LinStatic	-0,08	0,00	0,20	0,00	-0,01	0,00
5	SCU-BARANDILLA	LinStatic	0,00	-3,10	0,00	6,01	0,00	-0,01
5	SCU-TRAMEX	LinStatic	-0,90	0,00	2,44	0,00	-0,11	0,00
5	VCSC	LinStatic	0,00	-2,04	0,00	2,78	0,00	0,00
5	TEMPERATURA+	LinStatic	-20,92	0,00	3,10	0,00	-11,96	0,00
5	TEMPERATURA-	LinStatic	6,60	0,00	-0,98	0,00	3,78	0,00

Max	F1	F2	F3	M1	M2	M3
DEAD	0,12	0,00	1,05	0,00	0,03	0,00
CM-B	0,00	0,00	0,34	0,00	0,00	0,00
CM-T	0,08	0,00	0,50	0,00	0,02	0,00
SCU-B	0,00	0,00	0,00	6,40	0,00	0,00
SCU-T	0,90	0,00	5,93	0,00	0,23	0,00
VCSC	0,00	0,00	0,00	2,95	0,00	0,00
T+	18,11	0,00	4,04	0,00	8,73	0,00
T-	6,60	0,00	2,25	0,00	3,78	0,00

Min	F1	F2	F3	M1	M2	M3
DEAD	-0,12	0,00	0,00	0,00	-0,01	0,00
CM-B	0,00	0,00	0,00	0,00	0,00	0,00
CM-T	-0,08	0,00	0,00	0,00	-0,01	0,00
SCU-B	0,00	-3,55	0,00	0,00	0,00	-0,01
SCU-T	-0,90	0,00	0,00	0,00	-0,11	0,00
VCSC	0,00	-2,23	0,00	0,00	0,00	0,00
T+	-20,92	0,00	-7,14	0,00	-11,96	0,00
T-	-5,71	0,00	-1,28	0,00	-2,75	0,00

ELU	F1	F2	F3	M1	M2	M3
COMB 1	28,77	0,00	17,51	9,60	13,50	0,00
COMB 2	28,77	0,00	17,51	14,03	13,50	0,00
COMB 3	-32,99	-8,66	-10,72	0,00	-18,14	-0,02
COMB 4	-31,64	0,00	-10,72	0,00	-17,98	0,00

5.3.7.2 CALCULO DE PERNOS



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Specifier's comments:

1 Input data

Anchor type and diameter:

HIT-RE 500 V3 + Rebar 16mm

Effective embedment depth:

$h_{ef,act} = 320 \text{ mm}$ ($h_{ef,limit} = - \text{ mm}$)

Material:

B500B

Evaluation Service Report:

ETA 16/0143

Issued / Valid:

12/07/2017 / -

Proof:

Design method ETAG BOND (EOTA TR 029)

Stand-off installation:

without clamping (anchor); restraint level (anchor plate): 1,00; $e_b = 8 \text{ mm}$; $t = 15 \text{ mm}$

Anchor plate:

Hilti Grout: , multipurpose, $f_{c,grout} = 30,00 \text{ N/mm}^2$

Profile:

$l_x \times l_y \times t = 400 \text{ mm} \times 300 \text{ mm} \times 15 \text{ mm}$; (Recommended plate thickness: not calculated)

Base material:

IPB/HEB; ($L \times W \times T \times FT$) = $140 \text{ mm} \times 140 \text{ mm} \times 7 \text{ mm} \times 12 \text{ mm}$

Installation:

cracked concrete, C20/25, $f_{c,cube} = 25,00 \text{ N/mm}^2$; $h = 10.000 \text{ mm}$, Temp. short/long: 0/0 °C

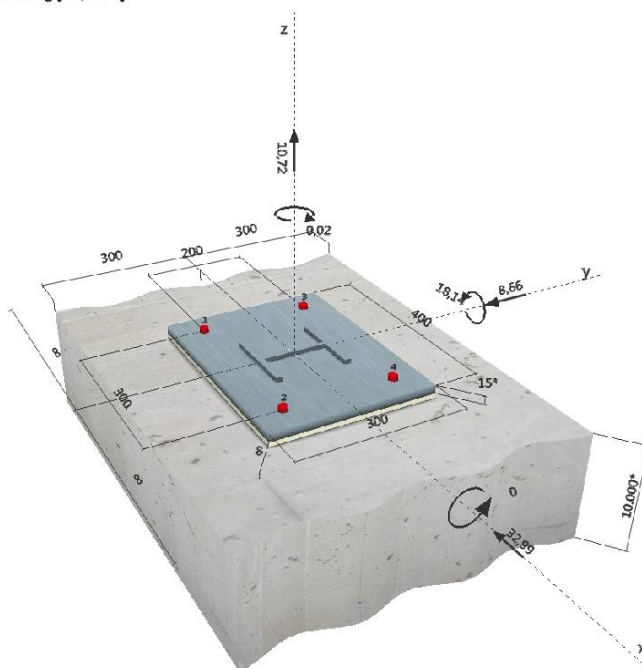
Reinforcement:

hammer drilled hole, Installation condition: Dry
no reinforcement or reinforcement spacing $\geq 150 \text{ mm}$ (any \emptyset) or $\geq 100 \text{ mm}$ ($\emptyset \leq 10 \text{ mm}$)
no longitudinal edge reinforcement



^R - user is responsible to ensure a rigid base plate for the entered thickness with appropriate solutions (stiffeners,...)

Geometry [mm] & Loading [kN, kNm]



Input data and results must be checked for agreement with the existing conditions and for plausibility!
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1.1 Load combination

Case	Description	Forces [kN] / Moments [kNm]	Seismic	Fire	Max. Util. [%]
1	Imported 1	$V_x = 28,770; V_y = 0,000; N = -17,510;$ $M_x = 9,600; M_y = 13,500; M_z = 0,000;$	no	no	58
2	Imported 2	$V_x = 28,770; V_y = 0,000; N = -17,510;$ $M_x = 14,030; M_y = 13,500; M_z = 0,000;$	no	no	75
3	Imported 3	$V_x = -32,990; V_y = -8,660; N = 10,720;$ $M_x = 0,000; M_y = -18,140; M_z = -0,020;$	no	no	93
4	Imported 4	$V_x = -31,640; V_y = 0,000; N = 10,720;$ $M_x = 0,000; M_y = -17,980; M_z = 0,000;$	no	no	90

2 Load case/Resulting anchor forces

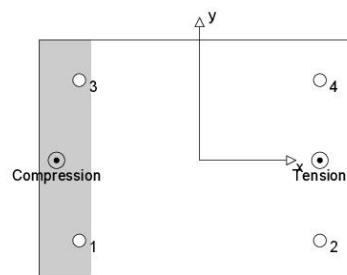
Load case: Design loads

Anchor reactions [kN]

Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	0,000	8,536	-8,263	-2,142
2	30,531	8,548	-8,263	-2,188
3	0,000	8,506	-8,232	-2,142
4	30,531	8,518	-8,232	-2,188

max. concrete compressive strain: 0,17 [%]
max. concrete compressive stress: 5,18 [N/mm²]
resulting tension force in (x/y)=(150/0): 61,063 [kN]
resulting compression force in (x/y)=(-178/0): 50,343 [kN]



Anchor forces based on a rigid base plate assumption!

3 Tension load (EOTA TR 029, Section 5.2.2)

	Load [kN]	Capacity [kN]	Utilization β_n [%]	Status
Steel Strength*	30,531	79,286	39	OK
Combined pullout-concrete cone failure**	61,063	141,255	44	OK
Concrete Breakout Strength**	61,063	70,839	87	OK
Splitting failure**	61,063	167,749	37	OK

* anchor having the highest loading **anchor group (anchors in tension)

3.1 Steel Strength

$N_{Rk,s}$ [kN]	$\gamma_{M,s}$	$N_{Rd,s}$ [kN]	N_{Sd} [kN]
111,000	1,400	79,286	30,531

3.2 Combined pullout-concrete cone failure

$A_{p,N}$ [mm ²]	$A_{p,N}^0$ [mm ²]	$\tau_{Rk,cr,25}$ [N/mm ²]	$s_{cr,Np}$ [mm]	$c_{cr,Np}$ [mm]	c_{min} [mm]
262,322	191,147	14,00	437	219	200
ψ_c	$\tau_{Rk,cr}$ [N/mm ²]	k	$\psi_{g,Np}^0$	$\psi_{g,Np}$	
1,000	9,50	2,300	1,151	1,037	
$e_{c1,N}$ [mm]	$\psi_{ec1,Np}$	$e_{c2,N}$ [mm]	$\psi_{ec2,Np}$	$\psi_{s,Np}$	$\psi_{re,Np}$
0	1,000	0	1,000	0,974	1,000
$N_{Rk,p}^0$ [kN]	$N_{Rk,p}$ [kN]	$\gamma_{M,p}$	$N_{Rd,p}$ [kN]	N_{Sd} [kN]	
152,807	211,883	1,500	141,255	61,063	

Input data and results must be checked for agreement with the existing conditions and for plausibility!
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3.3 Concrete Breakout Strength

$A_{c,N}$ [mm ²]	$A_{c,N}^0$ [mm ²]	$c_{cr,N}$ [mm]	$s_{cr,N}$ [mm]		
576.000	921.600	480	960		
$e_{s1,N}$ [mm]	$\psi_{ec1,N}$	$e_{s2,N}$ [mm]	$\psi_{ec2,N}$	$\psi_{s,N}$	$\psi_{re,N}$
0	1,000	0	1,000	0,825	1,000
k_1	$N_{Rk,c}^0$ [kN]	$\gamma_{M,c}$	$N_{Rd,c}$ [kN]	N_{Sd} [kN]	
7,200	206,076	1,500	70,839	61,063	

3.4 Splitting failure

$A_{c,N}$ [mm ²]	$A_{c,N}^0$ [mm ²]	$c_{cr,sp}$ [mm]	$s_{cr,sp}$ [mm]	$\psi_{h,sp}$		
384.000	409.600	320	640	1,468		
$e_{c1,N}$ [mm]	$\psi_{ec1,N}$	$e_{c2,N}$ [mm]	$\psi_{ec2,N}$	$\psi_{s,N}$	$\psi_{re,N}$	k_1
0	1,000	0	1,000	0,888	1,000	7,200
$N_{R,k,c}$ [kN]	$\gamma_{M,sp}$	$N_{R,d,sp}$ [kN]	$N_{S,d}$ [kN]			
206,076	1,500	167,749	61,063			

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4 Shear load (EOTA TR 029, Section 5.2.3)

	Load [kN]	Capacity [kN]	Utilization β_v [%]	Status
Steel Strength (without lever arm)*	8,548	36,667	24	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength**	34,108	185,674	19	OK
Concrete edge failure in direction y-*	18,657	74,010	26	OK

* anchor having the highest loading **anchor group (relevant anchors)

4.1 Steel Strength (without lever arm)

$V_{Rk,s}$ [kN]	$\gamma_{M,s}$	$V_{Rd,s}$ [kN]	V_{Sd} [kN]
55,000	1,500	36,667	8,548

4.2 Pryout Strength (Concrete Breakout Strength controls)

$A_{c,N}$ [mm ²]	$A_{c,N}^0$ [mm ²]	$c_{ef,N}$ [mm]	$s_{ef,N}$ [mm]	k-factor	k_1
756,000	921,600	480	960	2,000	7,200
$e_{c1,V}$ [mm]	$\psi_{ec1,N}$	$e_{c2,V}$ [mm]	$\psi_{ec2,N}$	$\psi_{s,N}$	$\psi_{re,N}$
0	1,000	1	0,999	0,825	1,000
$N_{Rk,c}^0$ [kN]	$\gamma_{M,c,p}$	$V_{Rd,cp}$ [kN]	V_{Sd} [kN]		
206,076	1,500	185,674	34,108		

4.3 Concrete edge failure in direction y-

h_{ef} [mm]	d_{nom} [mm]	k_1	α	β	
192	16,0	1,700	0,098	0,060	
c_1 [mm]	$A_{c,V}$ [mm ²]	$A_{c,V}^0$ [mm ²]			
200	270.000	180.000			
$\Psi_{s,V}$	$\Psi_{h,V}$	$\Psi_{e,V}$	$e_{c,V}$ [mm]	$\Psi_{ec,V}$	$\Psi_{re,V}$
1,000	1,000	1,713	1	0,998	1,000
$V_{Rk,e}^0$ [kN]	$\gamma_{M,e}$	$V_{Rd,e}$ [kN]	V_{Sd} [kN]		
43.323	1.500	74.010	18.657		

5 Combined tension and shear loads (EOTA TR 029, Section 5.2.4)

β_N	β_V	α	Utilization $\beta_{N,V}$ [%]	Status
0,862	0,252	1,500	93	OK

$$\beta_N^w + \beta_V^w \leq 1,0$$

6 Displacements (highest loaded anchor)

Short term loading:

N_{Sk}	= 22,616 [kN]	δ_N	= 0,141 [mm]
V_{Sk}	= 6,910 [kN]	δ_V	= 0,276 [mm]
		δ_{NV}	= 0,310 [mm]

Long term loading:

N_{Sk}	= 22,616 [kN]	δ_N	= 0,225 [mm]
V_{Sk}	= 6,910 [kN]	δ_V	= 0,415 [mm]
		δ_{NV}	= 0,472 [mm]

Comments: Tension displacements are valid with half of the required installation torque moment for uncracked concrete! Shear displacements are valid without friction between the concrete and the anchor plate! The gap due to the drilled hole and clearance hole tolerances are not included in this calculation!

The acceptable anchor displacements depend on the fastened construction and must be defined by the designer!

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7 Warnings

- The anchor design methods in PROFIS Anchor require rigid anchor plates per current regulations (ETAG 001/Annex C, EOTA TR029, etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Anchor calculates the minimum required anchor plate thickness with FEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid base plate assumption is valid is not carried out by PROFIS Anchor. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Checking the transfer of loads into the base material is required in accordance with EOTA TR 029, Section 7!
- The design is only valid if the clearance hole in the fixture is not larger than the value given in Table 4.1 of EOTA TR029! For larger diameters of the clearance hole see Chapter 1.1. of EOTA TR029!
- The accessory list in this report is for the information of the user only. In any case, the instructions for use provided with the product have to be followed to ensure a proper installation.
- Characteristic bond resistances depend on short- and long-term temperatures.
- Edge reinforcement is not required to avoid splitting failure

Fastening meets the design criteria!

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8 Installation data

Anchor plate, steel: -
Profile: IPB/HEB; 140 x 140 x 7 x 12 mm
Hole diameter in the fixture: $d_f = 16$ mm
Plate thickness (input): 15 mm
Recommended plate thickness: not calculated
Drilling method: Hammer drilled
Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

Anchor type and diameter: HIT-RE 500 V3 + Rebar 16mm
Installation torque: -
Hole diameter in the base material: 20 mm
Hole depth in the base material: 320 mm
Minimum thickness of the base material: 360 mm

^R - user is responsible to ensure a rigid base plate for the entered thickness with appropriate solutions (stiffeners,...)

8.1 Recommended accessories

Drilling

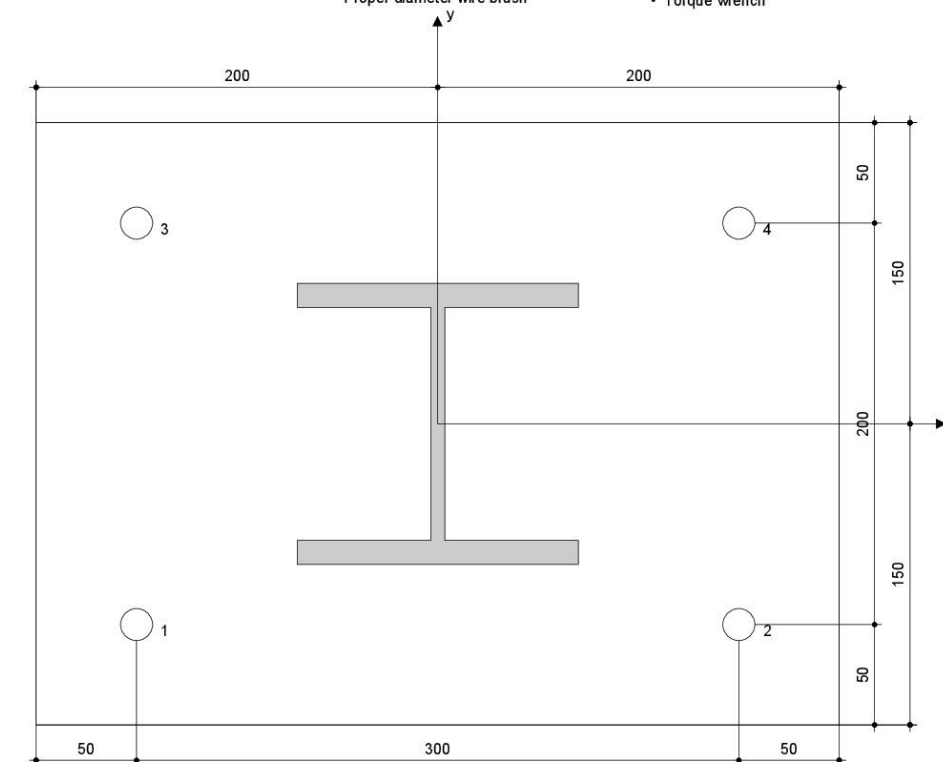
- Suitable Rotary Hammer
- Properly sized drill bit

Cleaning

- Compressed air with required accessories to blow from the bottom of the hole
- Proper diameter wire brush

Setting

- Dispenser including cassette and mixer
- For deep installations, a piston plug is necessary
- Torque wrench



Coordinates Anchor [mm]

Anchor	x	y	c _x	c _{yx}	c _y	c _{xy}
1	-150	-100	-	-	200	400
2	150	-100	-	-	200	400
3	-150	100	-	-	400	200
4	150	100	-	-	400	200

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5.3.7.3 CALCULO DEL ESPESOR DE LA PLACA

Nuevo espesor

Uniforme **Ortótropo**



Nombre: PB-25 Color: Auto

☒ uniforme Esp = 2,5 (cm)

☐ variable según la línea

☐ variable en el plano

Coordenadas del punto (m) Espesor (cm)

P1: 0,00; 0,00; 0,00 0,0

P2: 0,00; 0,00; 0,00 0,0

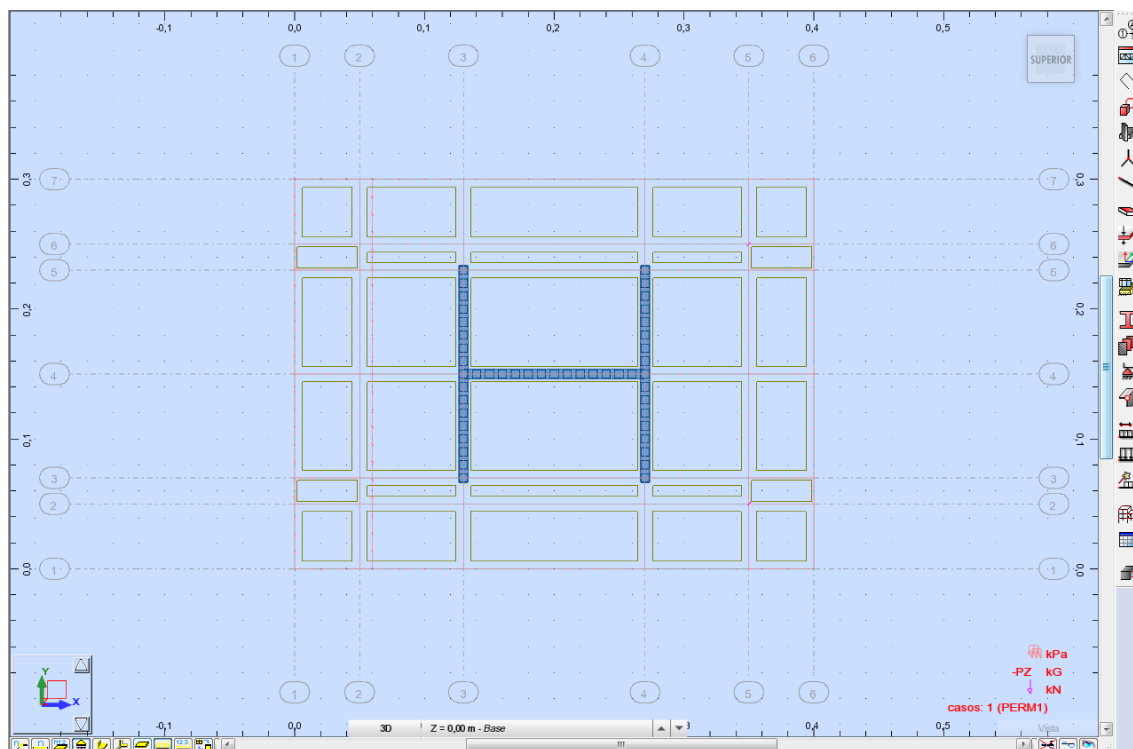
P3: 0,00; 0,00; 0,00 0,0

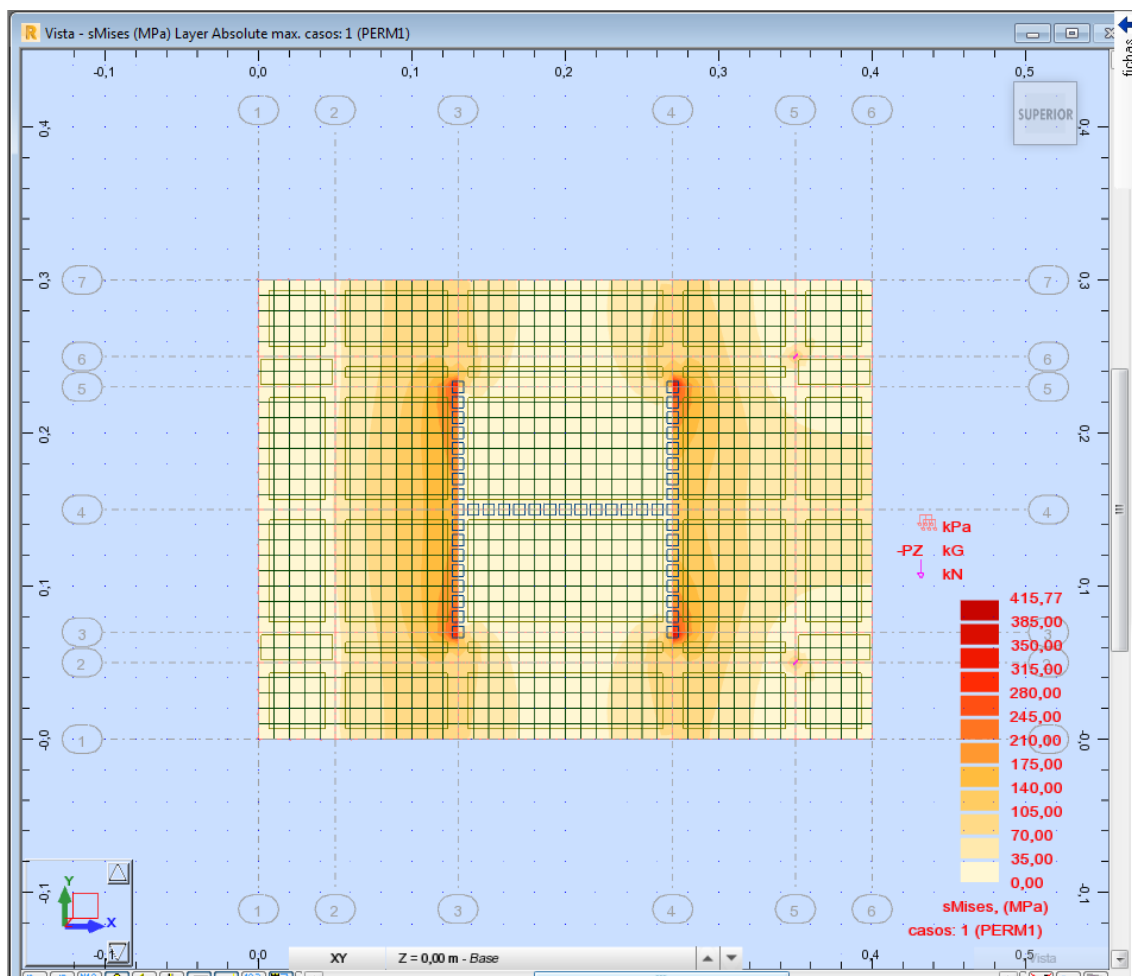
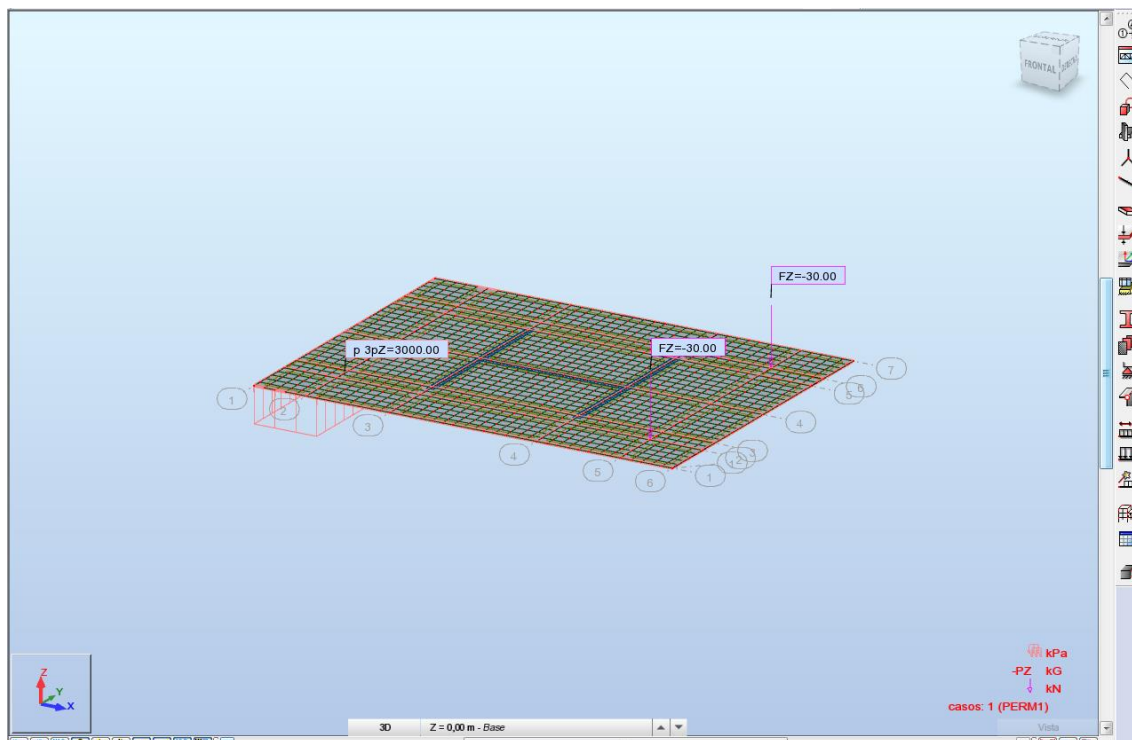
☐ Reducción del momento de inercia 1,00 *Ig >>

☐ Parámetros de la elasticidad del suelo

Material: S 275

Agregar Cerrar Ayuda





6.1 MODELO DE SAP2000

Se considera el peso propio de la losa y una carga puntual de 510 kN en cualquier nodo.

Ver Apéndice 5.

6.4 MATERIALES

Material Property Data

General Data

Material Name and Display Color: HA-25

Material Type: Concrete

Material Notes: [Modify/Show Notes...](#)

Weight and Mass

Weight per Unit Volume: 24,9926

Mass per Unit Volume: 2,5485

Units: KN, m, C

Isotropic Property Data

Modulus of Elasticity, E: 32035249,

Poisson, U: 0,2

Coefficient of Thermal Expansion, A: 5,500E-06

Shear Modulus, G: 13348020,

Other Properties for Concrete Materials

Characteristic Concrete Cylinder Strength, f_{ck}: 25000,

Expected Concrete Compressive Strength: 25000,

☐ Lightweight Concrete

Shear Strength Reduction Factor:

☐ Switch To Advanced Property Display

OK Cancel

Material Property Data

General Data

Material Name and Display Color: Rebar

Material Type: Rebar

Material Notes: [Modify/Show Notes...](#)

Weight and Mass

Weight per Unit Volume: 76,9729

Mass per Unit Volume: 7,849

Units: KN, m, C

Uniaxial Property Data

Modulus of Elasticity, E: 1,999E+08

Poisson, U: 0,

Coefficient of Thermal Expansion, A: 1,170E-05

Shear Modulus, G: 0,

Other Properties for Rebar Materials

Minimum Yield Stress, F_y: 400000,

Minimum Tensile Stress, F_u: 440000,

Expected Yield Stress, F_{ye}: 400000,

Expected Tensile Stress, F_{ue}: 440000,

☐ Switch To Advanced Property Display

OK Cancel

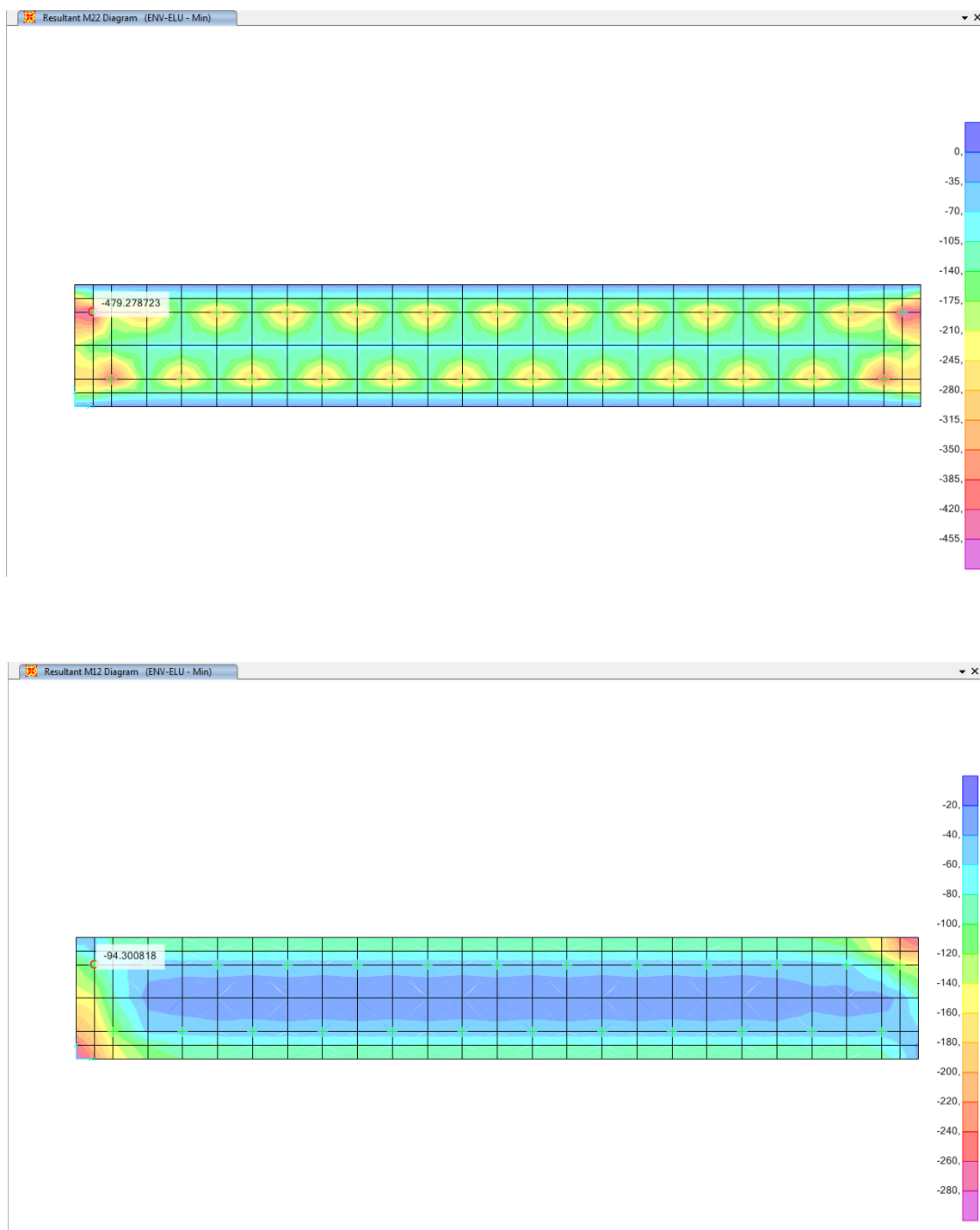
6.5 SECCIONES

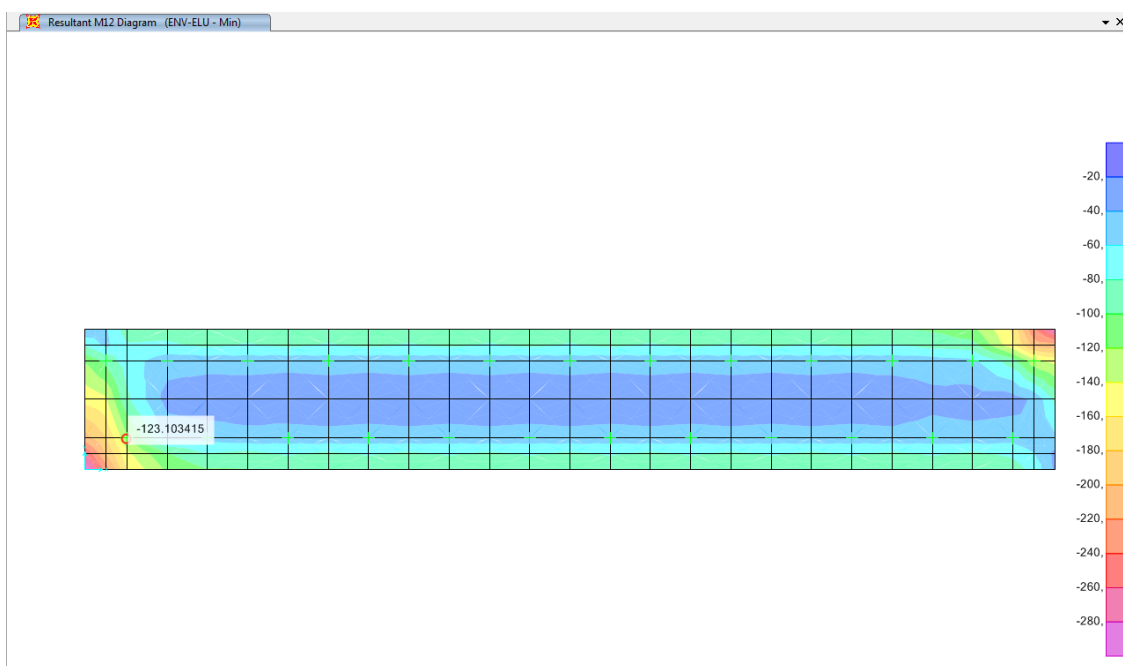
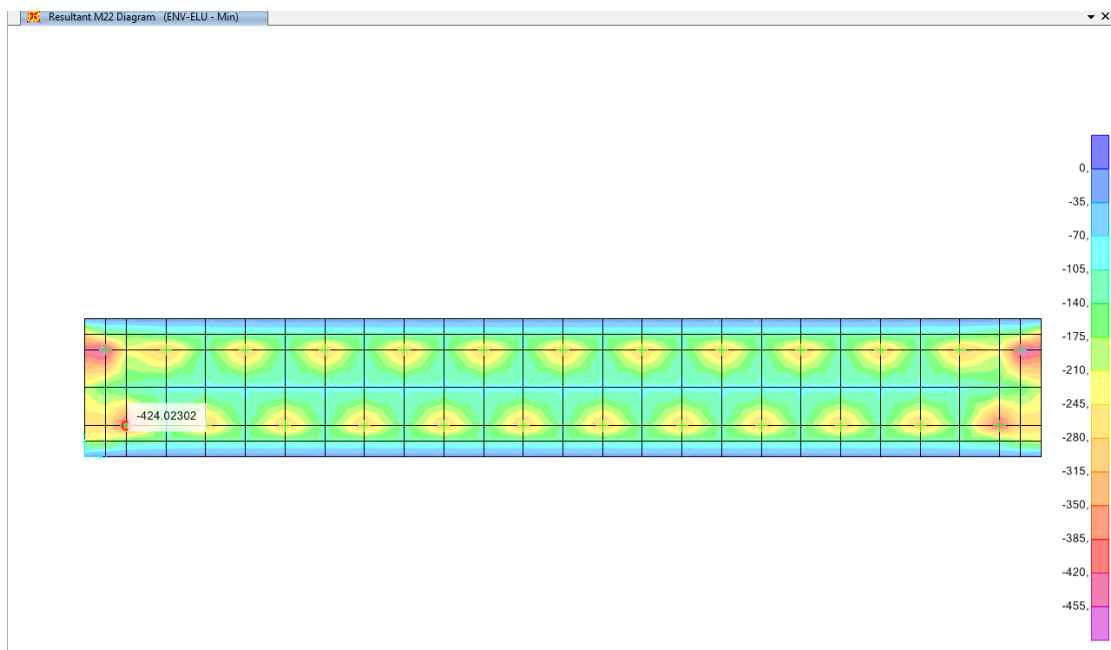
The 'Shell Section Data' dialog box is shown with the following fields and controls:

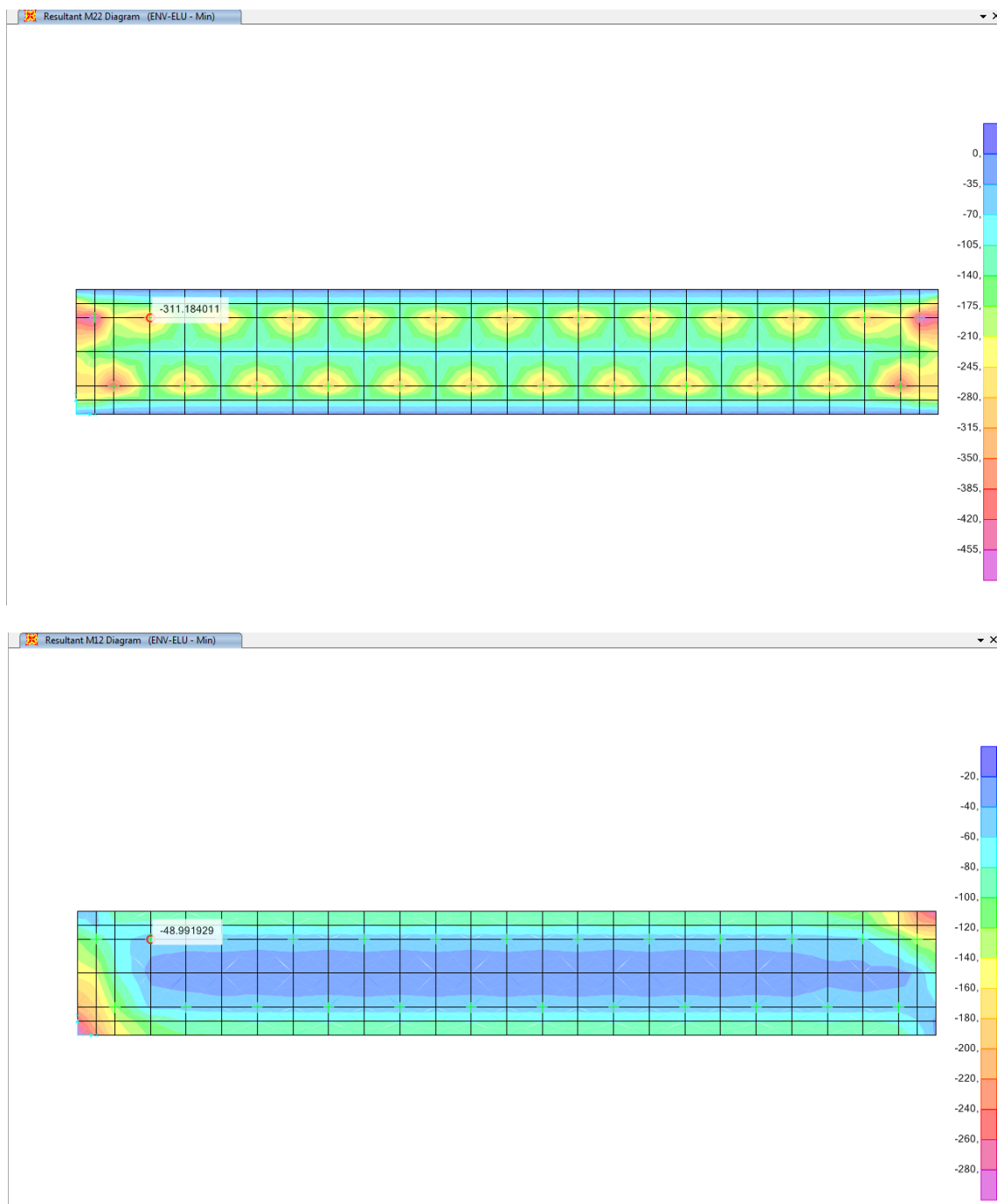
- Section Name:** LOSA
- Section Notes:** Modify/Show...
- Display Color:** A green color swatch.
- Type:**
 - ☒ Shell - Thin
 - ☐ Shell - Thick
 - ☐ Plate - Thin
 - ☐ Plate Thick
 - ☐ Membrane
 - ☐ Shell - Layered/Nonlinear
- Thickness:**
 - Membrane: 0,4
 - Bending: 0,4
- Material:**
 - Material Name: + HA-25
 - Material Angle: 0,
- Time Dependent Properties:** Set Time Dependent Properties...
- Concrete Shell Section Design Parameters:** Modify/Show Shell Design Parameters...
- Stiffness Modifiers:** Set Modifiers...
- Temp Dependent Properties:** Thermal Properties...
- Buttons:** OK, Cancel

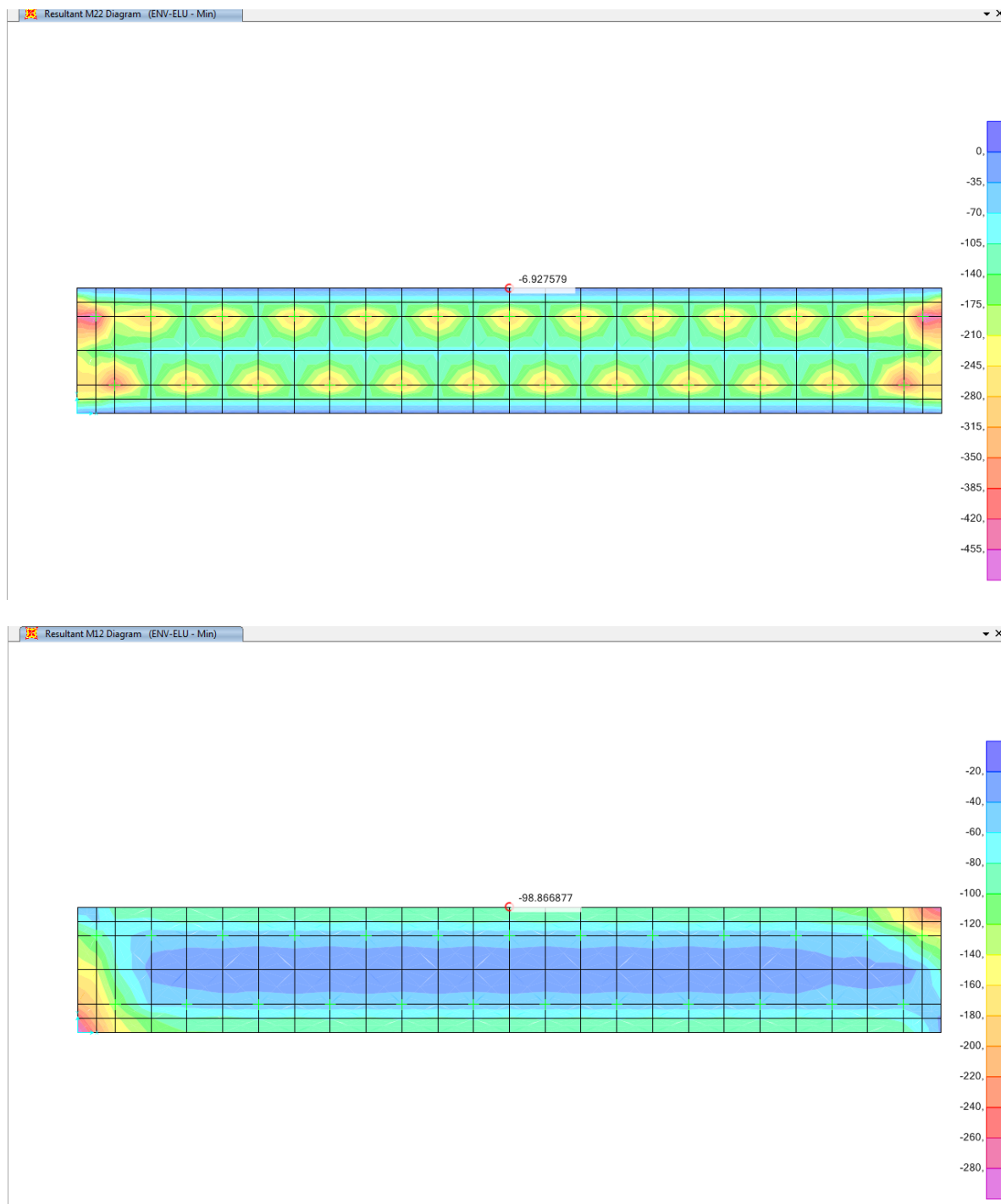
6.6 ELU - FLEXIÓN

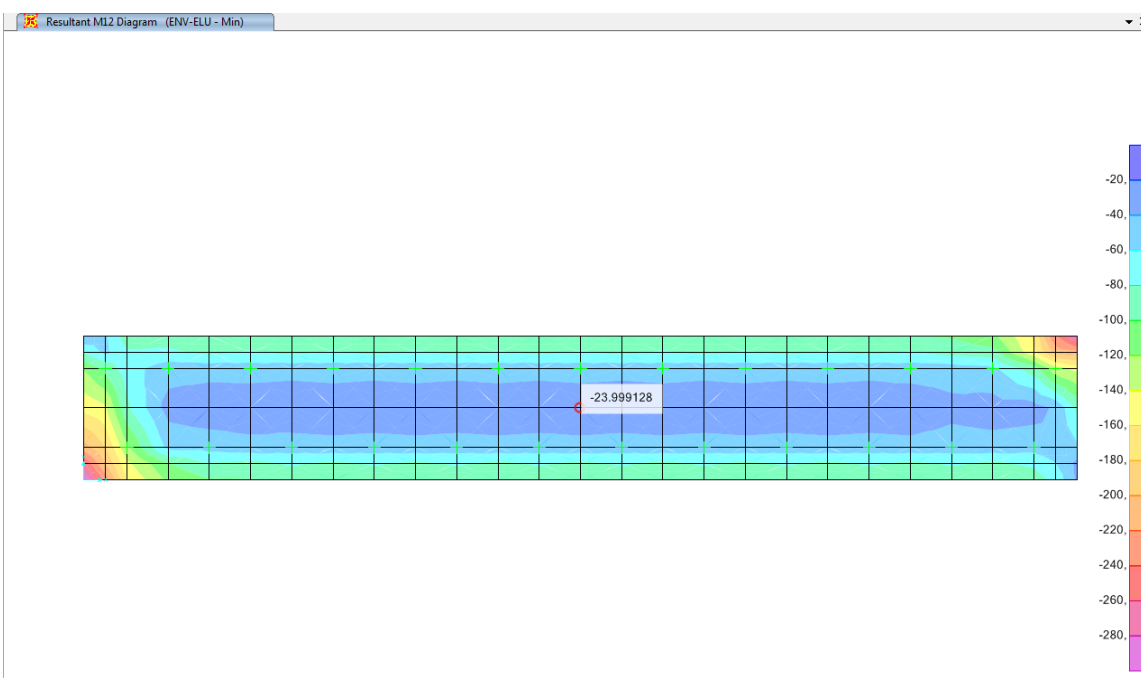
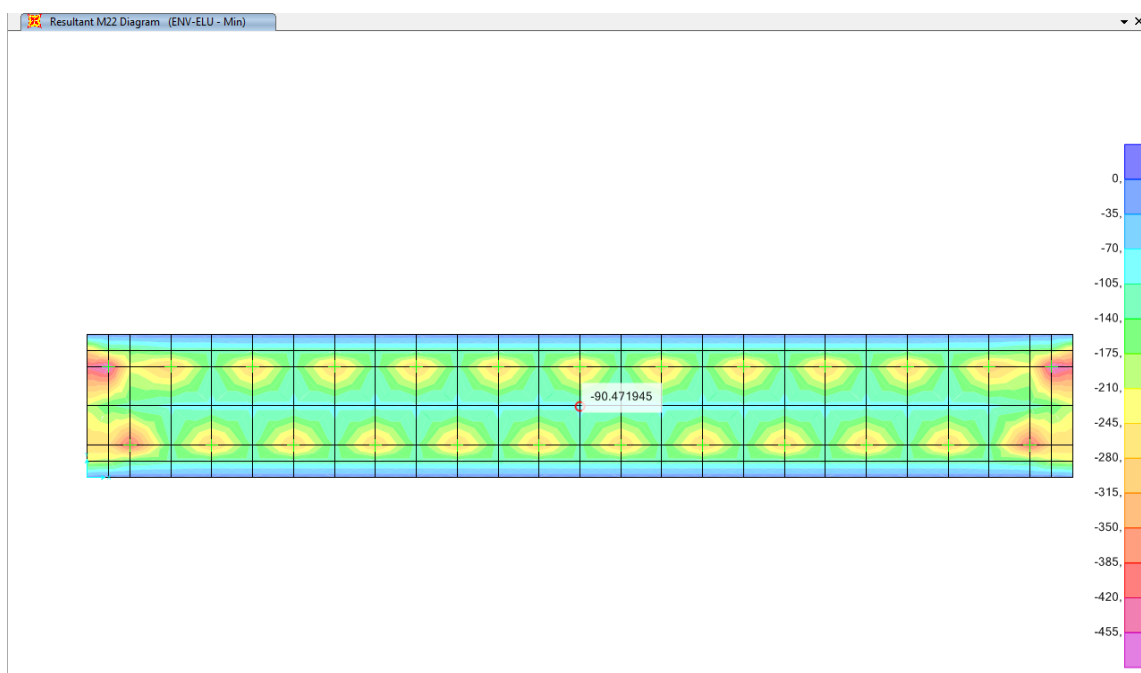
6.6.1 Armadura Transversal Superior –M22 MIN











Punto	M22	M12	Mtot
1	-479,28	-94,3	-573,58
2	-424	-123	-547
3	-311,2	-49,2	-360,4
4	-6,92	-98,9	-105,82
5	-90,47	-23,99	-114,46

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TN1. Flexión simple]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección
LOSA

Comprobación Dimensionamiento Diagrama de Flexión

Propuesta de armado Plano de agotamiento

At [cm²] = 57.1

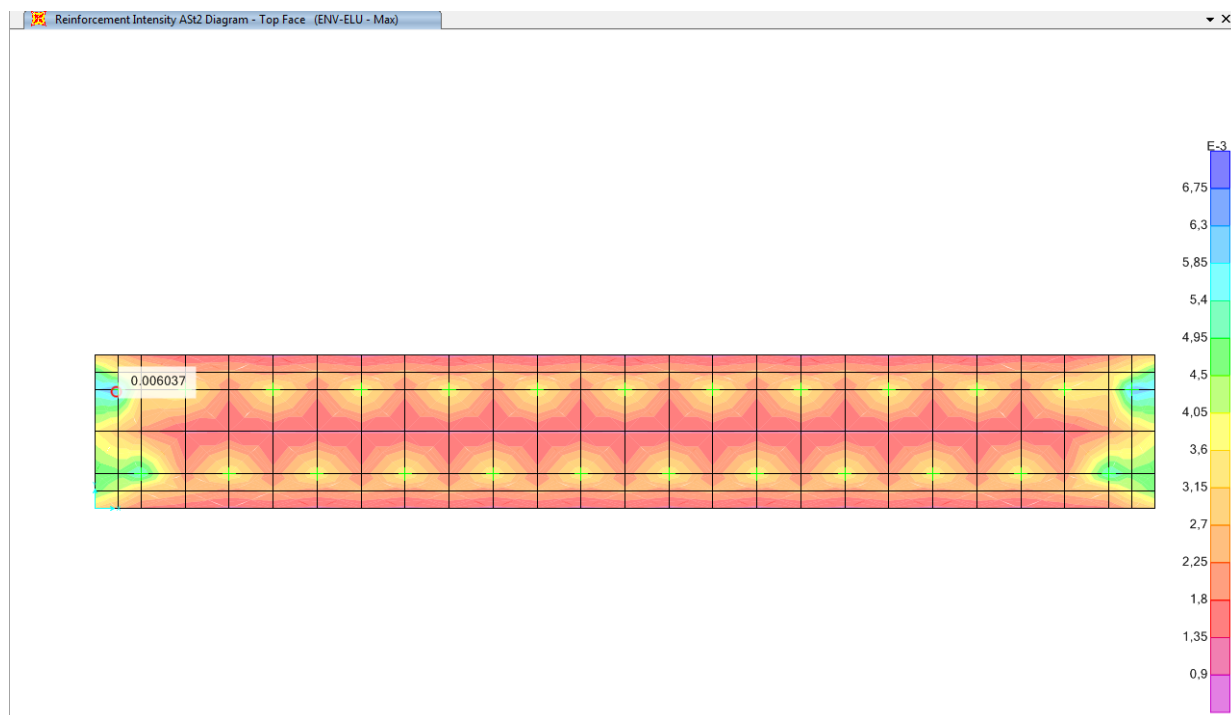
	ø 12	ø 14	ø 16	ø 20	ø 25
nº total de Ø	—	38	29	19	12
nº de capas	—	2	2	1	1
At[cm²]	—	58.5	58.3	59.7	58.9
wk [mm] *	—	0.19	0.19	0.20	0.22

Ac [cm²] = 0.0

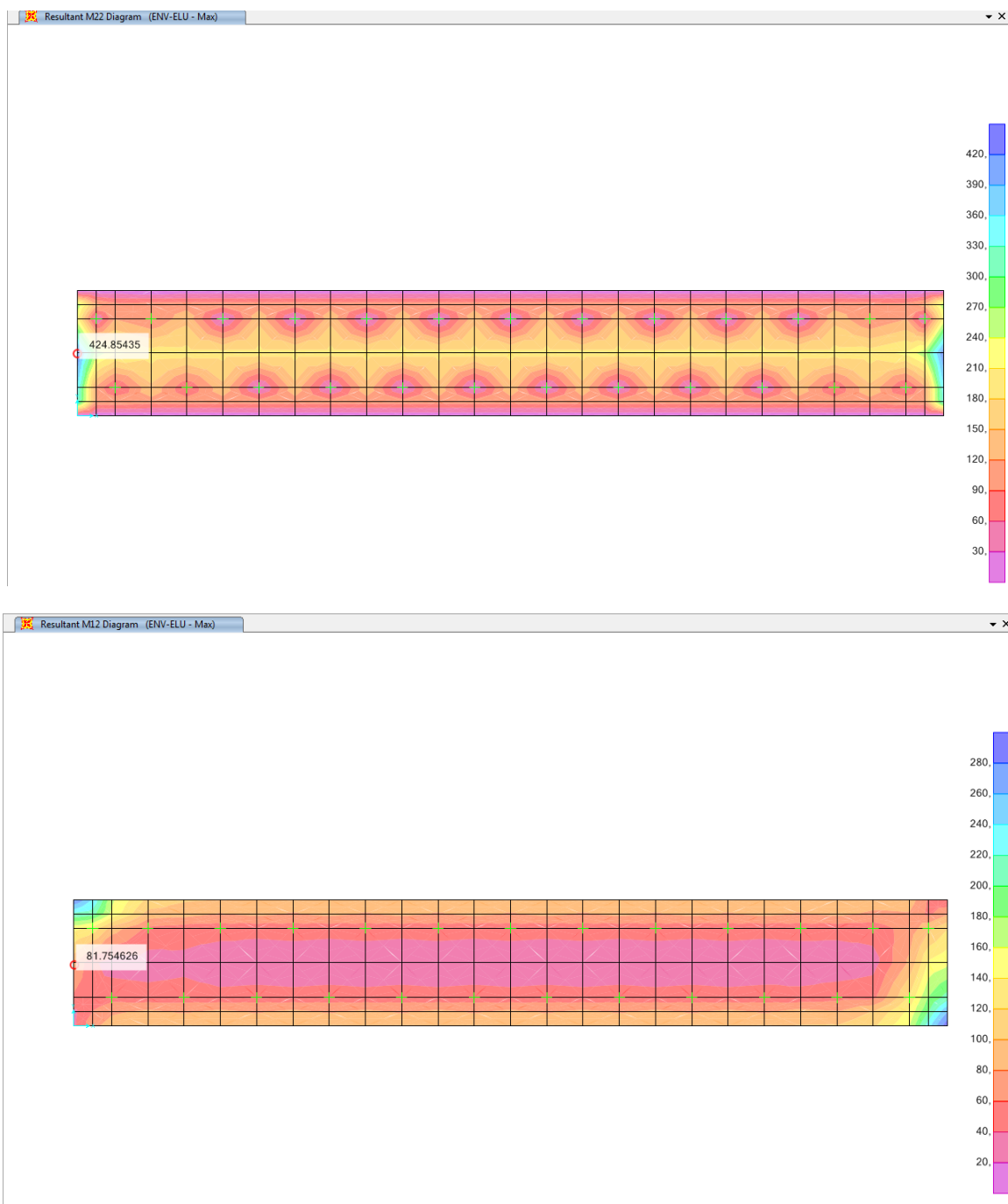
	ø 12	ø 14	ø 16	ø 20	ø 25
nº total de Ø					
nº de capas					
Ac[cm²]					

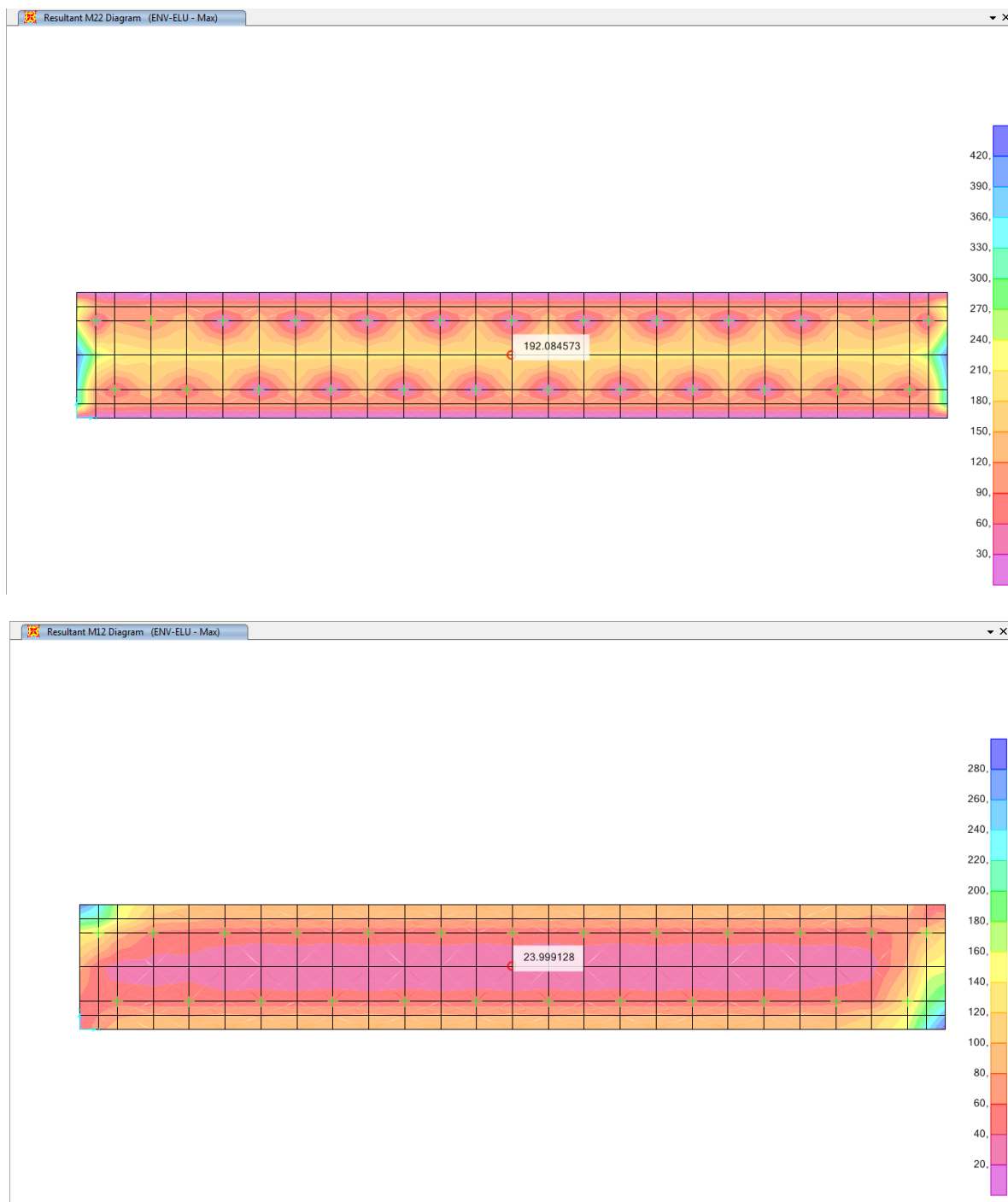
(*) Los valores de la abertura característica de fisura son meramente orientativos. Se han calculado suponiendo un coeficiente global de mayoración de 1.50 y una proporción carga: cuasi-permanente / carga total= 80%

Md [kN·m] 573.6



6.6.2 Armadura Transversal Inferior –M22 max





Punto	M22	M12	Mtot
1	424,85	81,75	506,6
2	192,01	23,99	216

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TN1. Flexión simple]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: L0SA

Comprobación Dimensionamiento Diagrama de Flexión

Propuesta de armado Plano de agotamiento

Elemento estructural: ☐ Viga ☒ Losa ☐ Muro

At [cm²] = 54.6

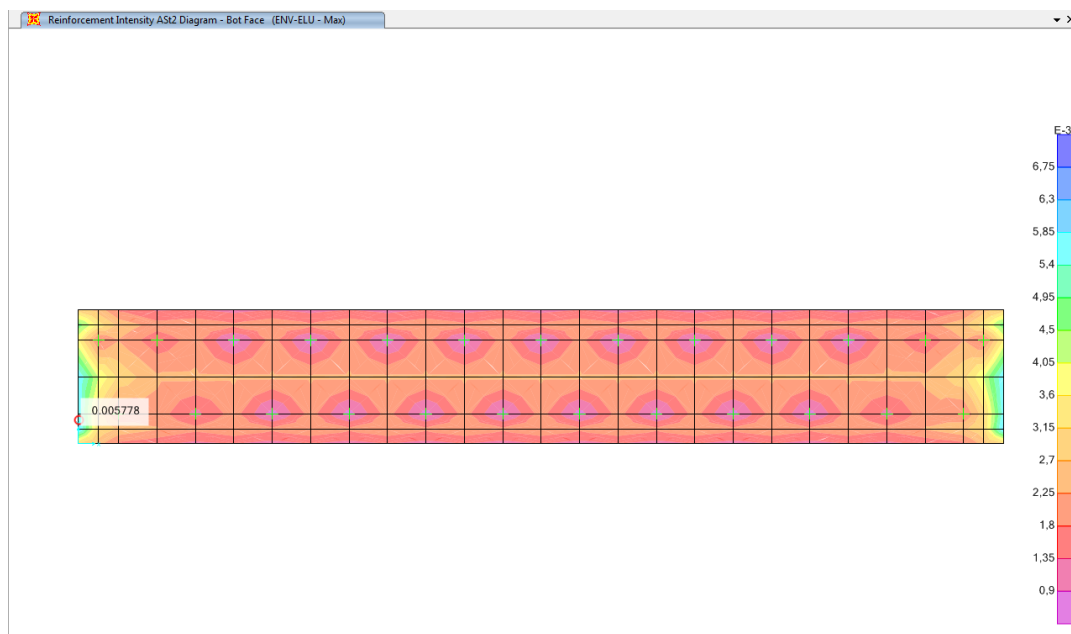
	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25
nº total de Ø	—	36	28	18	12
nº de capas	—	2	2	1	1
At[cm²]	—	55.4	56.3	56.5	58.9
wk [mm]*	—	0.27	0.27	0.28	0.28

Ac [cm²] = 0.0

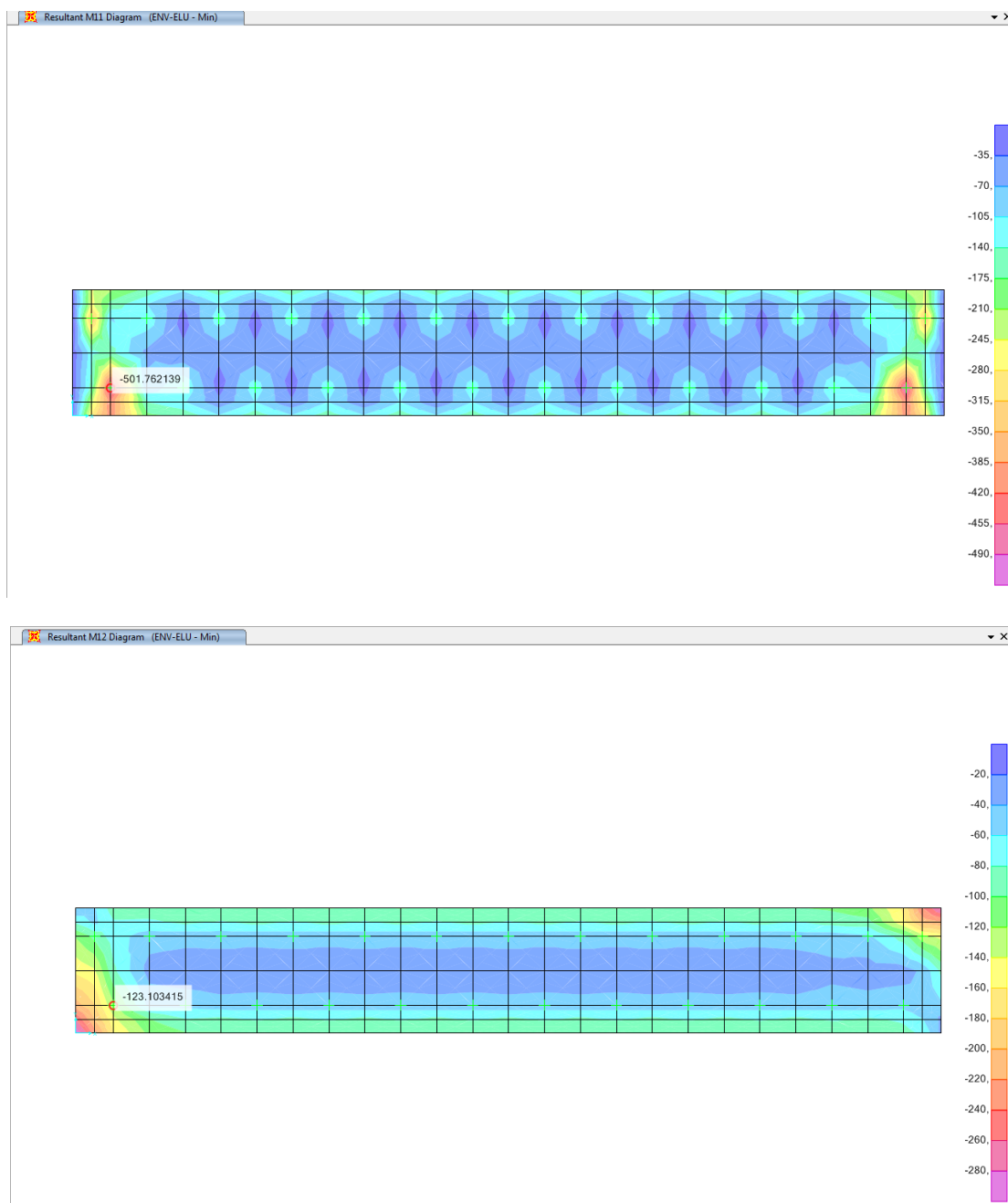
	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25
nº total de Ø					
nº de capas					
Ac[cm²]					

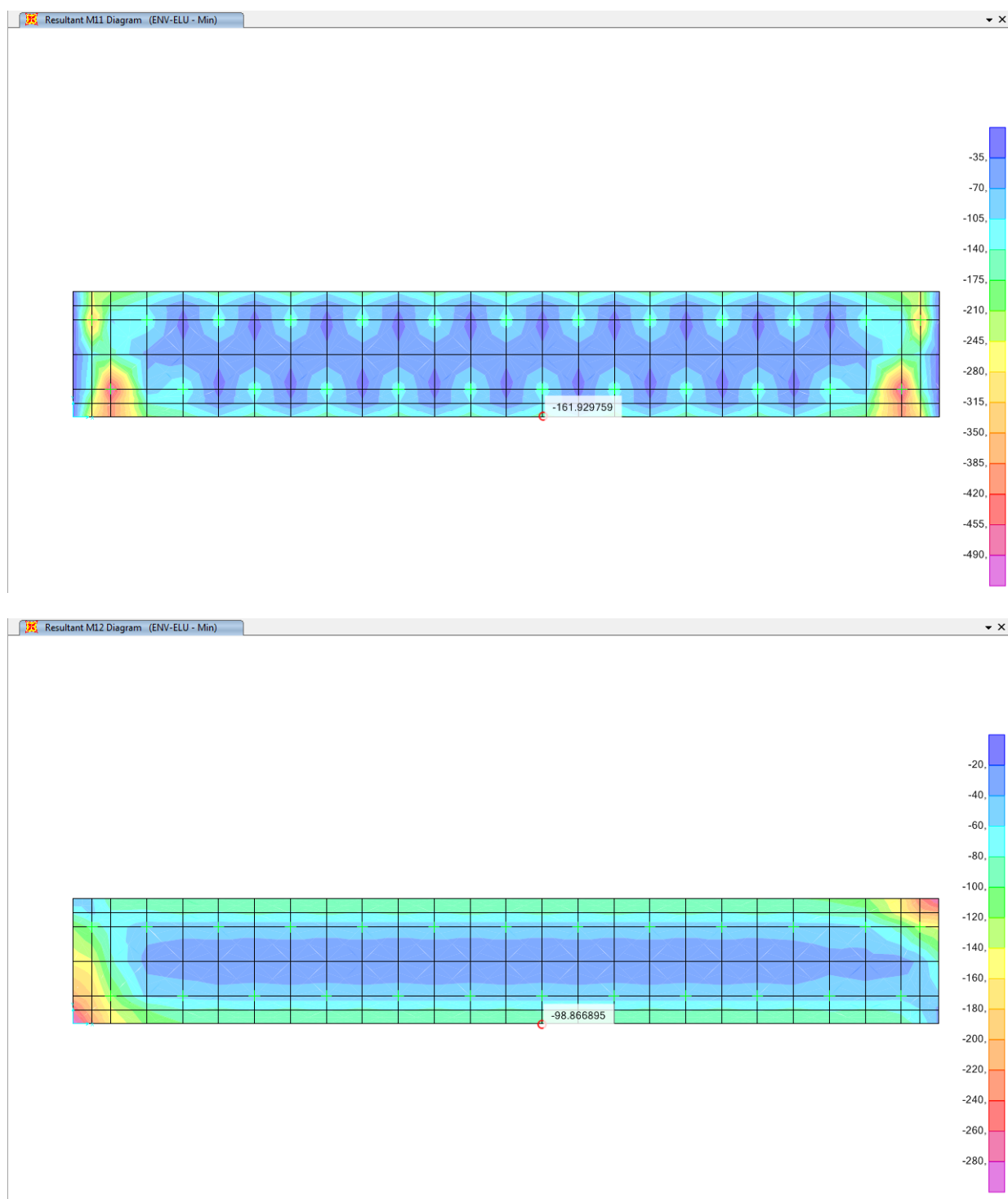
(*) Los valores de la abertura característica de fisura son meramente orientativos. Se han calculado suponiendo un coeficiente global de mayoración de 1.50 y una proporción carga cuasi-permanente / carga total= 80%

Md [kN·m] 506



6.6.3 Armadura Longitudinal Superior –M11 min





Punto	M11	M12	Mtot
1	-501,76	-123,1	-624,86
2	-161,93	-98,86	-260,79

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TN1. Flexión simple]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: LOSA

Comprobación Dimensionamiento Diagrama de Flexión

Propuesta de armado Plano de agotamiento

Elemento estructural:
☐ Viga
☒ Losa
☐ Muro

At [cm²] = 72.7

	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25
nº total de Ø	—	—	37	24	15
nº de capas	—	—	2	2	1
At[cm²]	—	—	74.4	75.4	73.6
wk [mm] *	—	—	0.25	0.25	0.27

Ac [cm²] = 0.0

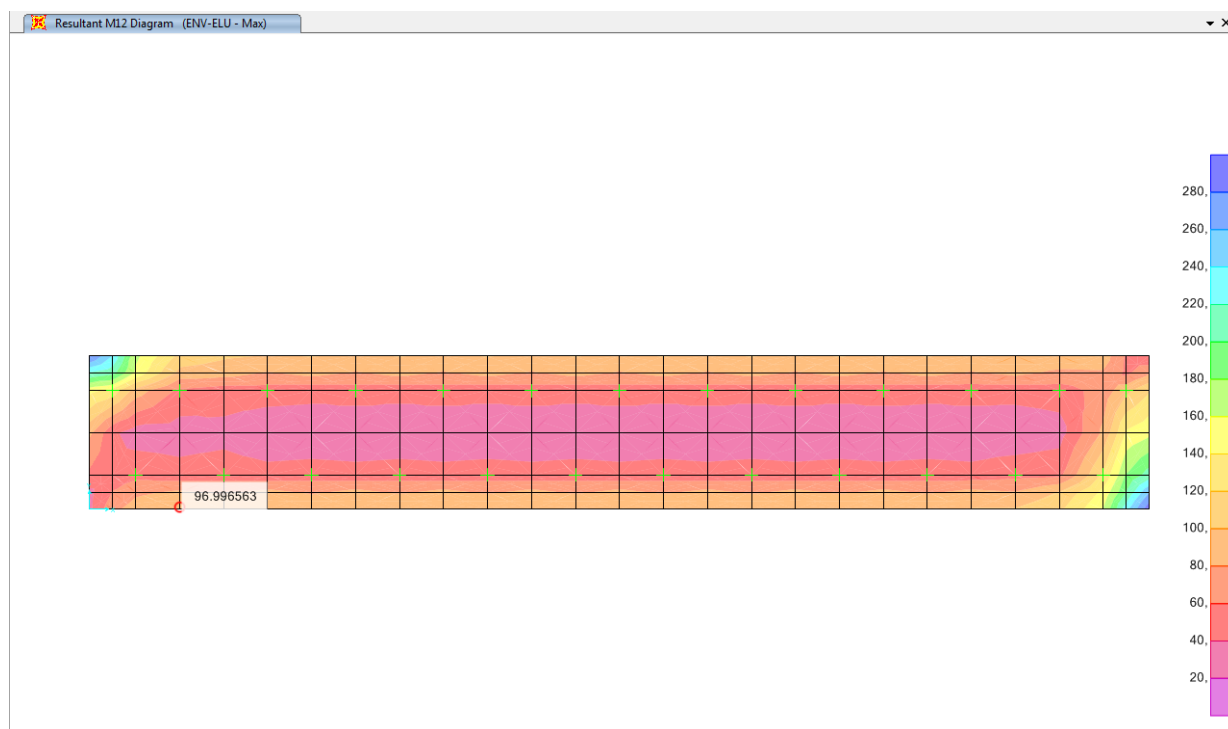
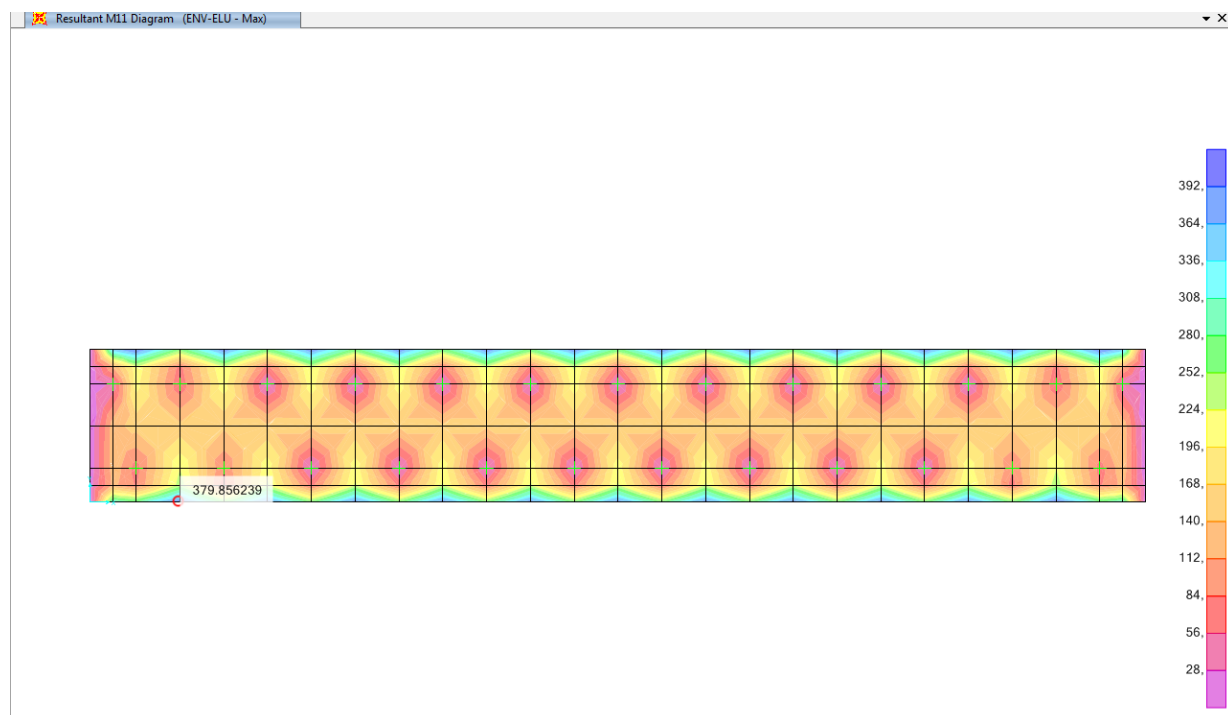
	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25
nº total de Ø					
nº de capas					
Ac[cm²]					

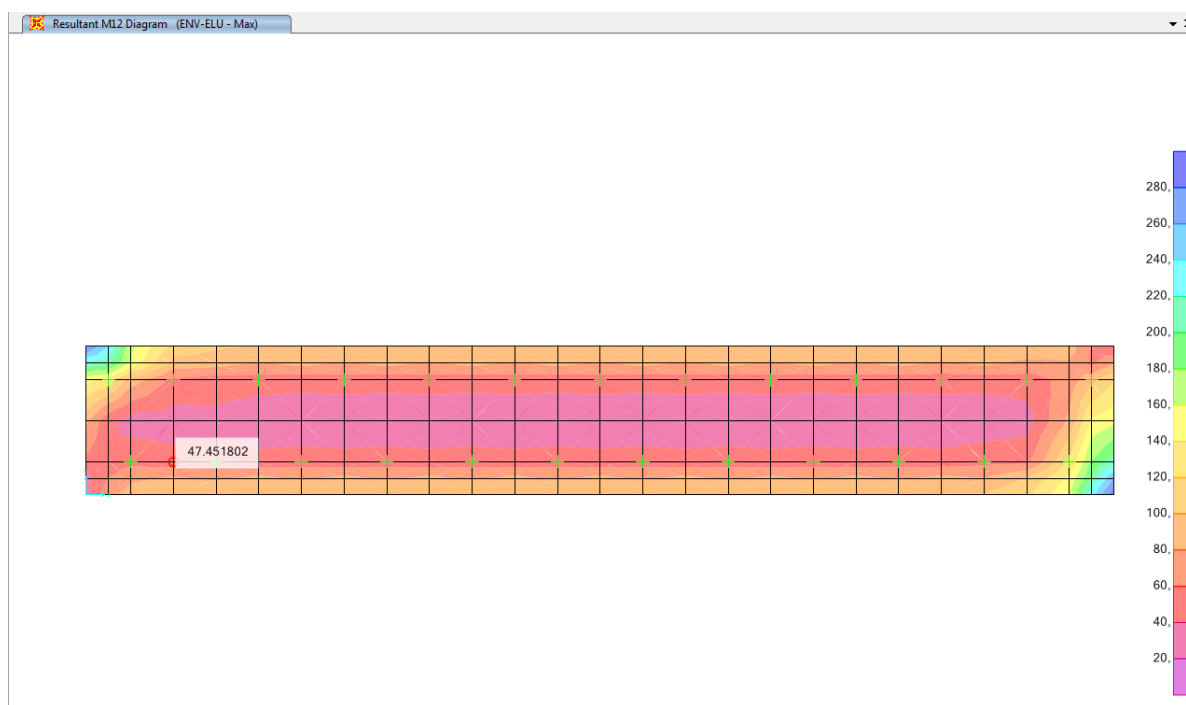
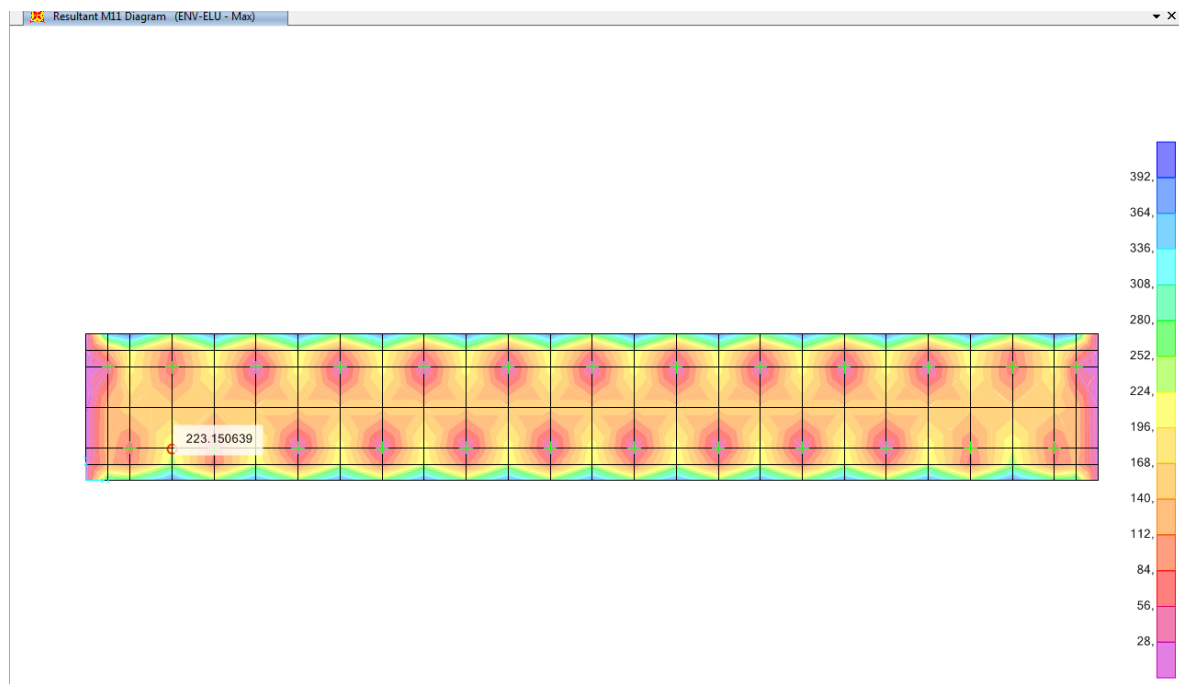
(*) Los valores de la abertura característica de fisura son meramente orientativos. Se han calculado suponiendo un coeficiente global de mayoración de 1.50 y una proporción carga cuasi-permanente / carga total= 80%

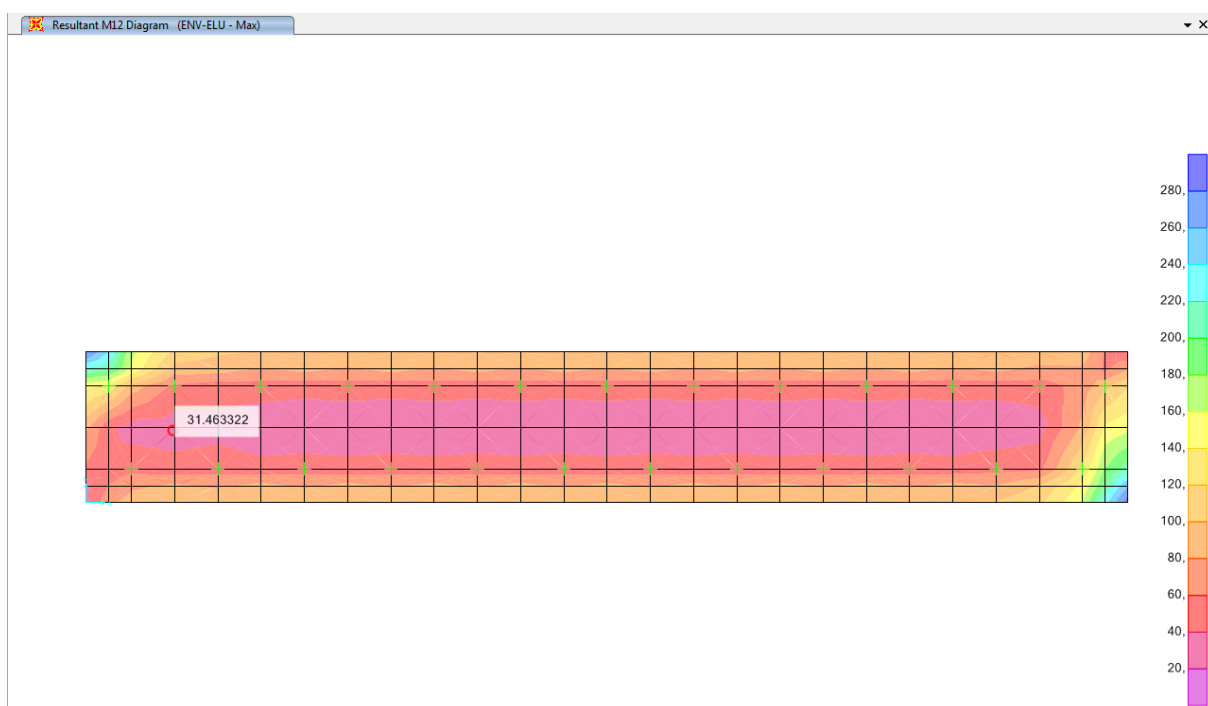
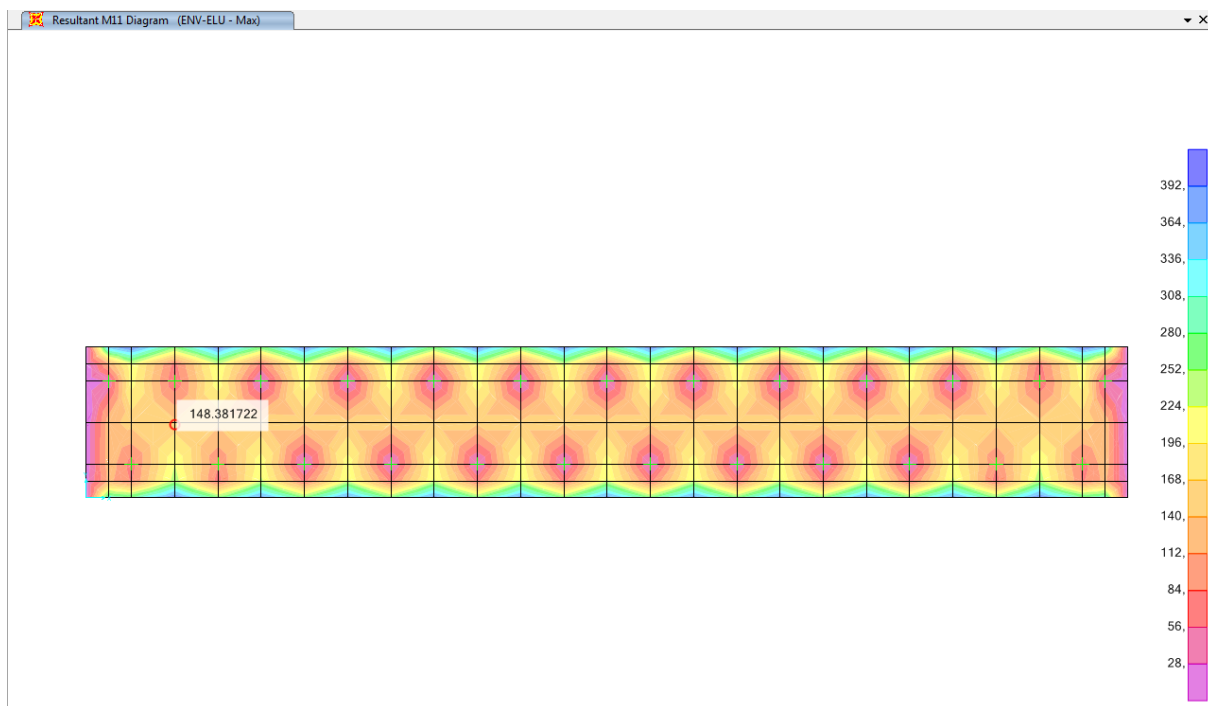
Md [kN·m] 624.8



6.6.4 Armadura Longitudinal Inferior –M11 max







Punto	M11	M12	Mtot
1	379,06	96,99	476,05
2	223,15	47,45	270,6
3	148,38	31,47	179,85

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TN1. Flexión simple]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección
LOSA

Comprobación Dimensionamiento Diagrama de Flexión

Propuesta de armado Plano de agotamiento

Elemento estructural
☐ Viga
☒ Losa
☐ Muro

At [cm²] = 45.4

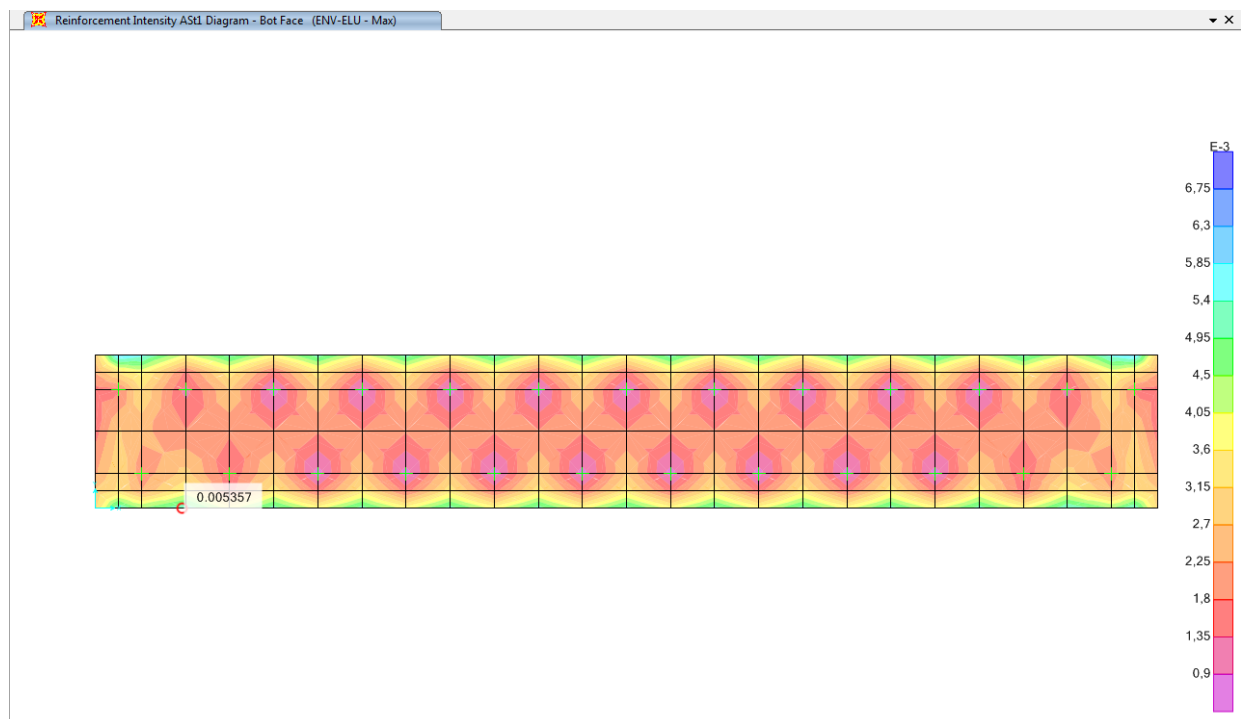
	ø 12	ø 14	ø 16	ø 20	ø 25
nº total de Ø	—	30	23	15	10
nº de capas	—	2	2	1	1
At[cm²]	—	46.2	46.2	47.1	49.1
wk [mm] *	—	0.20	0.21	0.22	0.23

Ac [cm²] = 0.0

	ø 12	ø 14	ø 16	ø 20	ø 25
nº total de Ø					
nº de capas					
Ac[cm²]					

(*) Los valores de la abertura característica de fisura son meramente orientativos. Se han calculado suponiendo un coeficiente global de mayoración de 1.50 y una proporción carga cuasi-permanente / carga total= 80%

Md [kN·m] 476.05



6.7 ELU – PUNZONAMIENTO

Se toma una carga de $1,5 \times 510 = 765$ kN:

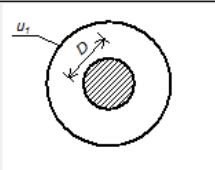
PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [TT3 Punzonamiento]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

TT3 Punzonamiento

Pilar y losa Zona exterior

Pilar
Posición Interior



☐ Rectangular ☒ Circular

Diámetro [m] 0.18

u1 [m] 4.96
u0 [m] 0.57
 β 1.15

Losa
Hormigón HA-25
Acero B-500-S
d [m] 0.35
 ρ [%] 6
Control Horm. Normal
 σ'_{cd} [MPa] Comp(+) 0.00

Comprobación Dimensionamiento

A_{sw} estricta en un perímetro concéntrico [cm²]

ϕ [mm]	ϕ 10	ϕ 12	ϕ 16	ϕ 20
Nº ramas (1 p)				
capas x grupos				
A_{sw} [cm ²]				
Fsu [kN]				
Fu2 [kN]				

PRONTUARIO INFORMÁTICO DEL HORMIGÓN 3.1

La tensión tangencial nominal de cálculo no supera a la tensión máxima resistente en el perímetro crítico.
No es necesario disponer armadura de punzonamiento

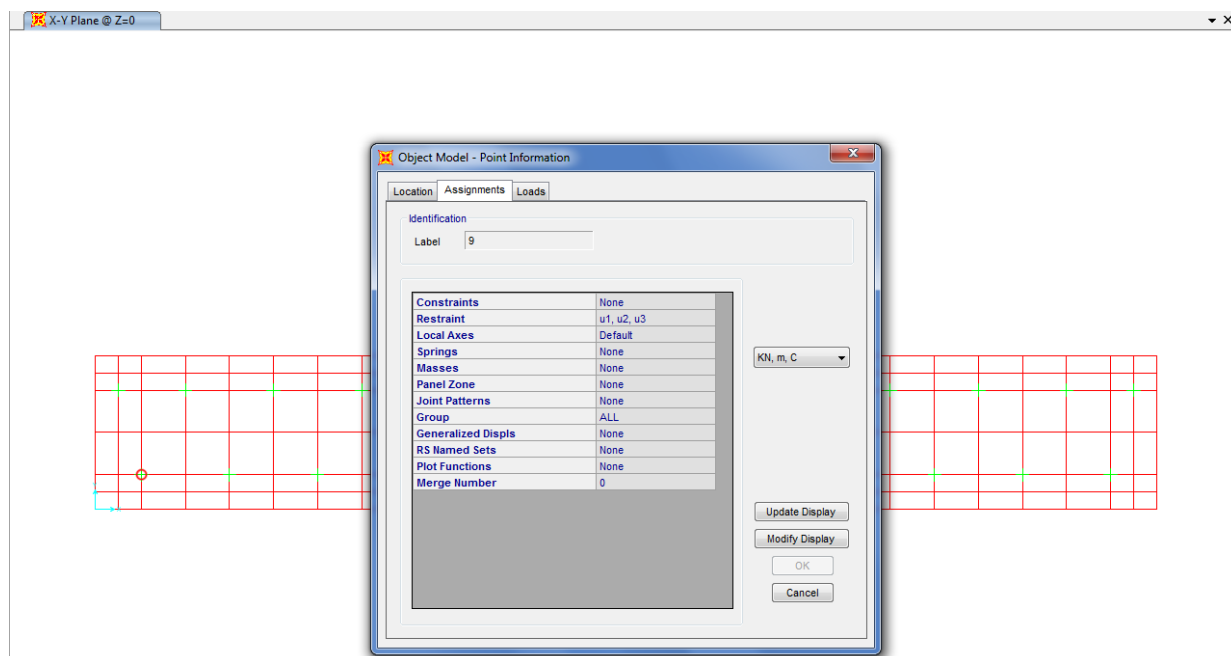
OK

F_{sd} [kN] 765
 $F_{sd,ef}$ [kN] 879.7
 F_{sd} en $u_{n,ef}$ [kN] 765.0
 s [mm] 262

Inclinación de la armadura α [°] 45.0

τ_{sd} [MPa] 0.51
 τ_{rd} [MPa] 0.58

6.8 ELS – FISURACIÓN



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	TABLE: Element Forces - Area Shells														
2	Area	Area	Elem	Shell	Type	Joint	Output	Cas	Case	Type	Step	Type	M11	M22	M12
3	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	KN-m/m	KN-m/m	KN-m/m
21	1068	1068	Shell-Thir	9	ENV-ELS	Combination	Max		48,116742	33,871975	25,417076	ALS	M11+M12 MIN	M11+M12 MA	M22+M12 MI
25	1068	1068	Shell-Thir	9	ENV-ELS	Combination	Min		-336,6194	-281,8904	-99,71364				
36	1070	1070	Shell-Thir	9	ENV-ELS	Combination	Max		46,834099	33,553269	30,513417				
40	1070	1070	Shell-Thir	9	ENV-ELS	Combination	Min		-332,3214	-281,0308	-58,1523				
462	1139	1139	Shell-Thir	9	ENV-ELS	Combination	Max		47,96987	33,699811	44,315771				
466	1139	1139	Shell-Thir	9	ENV-ELS	Combination	Min		-337,1963	-284,775	-88,75126				
495	1143	1143	Shell-Thir	9	ENV-ELS	Combination	Max		46,687227	33,381105	38,70774				
499	1143	1143	Shell-Thir	9	ENV-ELS	Combination	Min		-332,8983	-283,9154	-83,6862				
1252															

A continuación se comprueba a fisuración:

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: LOSA

Definición específica del armado

nº de capas: 2

φ [mm]: 25

Separación media entre fisuras s_m [mm]: 158.0

Deformación media de las armaduras ϵ_{sm} [‰]: 1.15

Tensión en las armaduras en el instante de fisuración del hormigón σ_{sr} [MPa]: 53.9

Tensión en las armaduras en servicio σ_s [MPa]: 236.2

Abertura característica de fisura w_k [mm]: 0.31

Valores máximos de la apertura de fisura

Clase de exposición	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2 ⁽¹⁾
IIIa, IIIb, IV, F	0.2	
IIIc, Qa, Qb, Qc	0.1	Descompresión

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

Recubrimiento de la armadura longitudinal c [mm]: 50

Solicitación: ☒ Flexión simple ☐ Tracción simple

Mk [kN-m]: 436

Capa: 1 n barras: 8 sv [mm]: 62.5

Capa: 2 n barras: 8 sv [mm]: 50

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: LOSA

Definición específica del armado

nº de capas: 1
φ [mm]: 25

Separación media entre fisuras s_m [mm]:
Deformación media de las armaduras ϵ_{sm} [%]:
Tensión en las armaduras en el instante de fisuración del hormigón σ_{sf} [MPa]:
Tensión en las armaduras en servicio σ_s [MPa]:
Abertura característica de fisura w_k [mm]: 0.0

Valores máximos de la abertura de fisura

Clase de exposición	w max [mm]	
	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2 ¹
IIIa, IIb, IV, F	0.2	Descompresión
IIIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

Recubrimiento de la armadura longitudinal c [mm]: 50
Solicitación: ☒ Flexión simple ☐ Tracción simple
Mk [kN·m]: 92.3

A_s [cm²]: 39.3
A_{c,eficaz} [cm²]: 1000.0

capa n barras sv [mm]
1 8 62.5

PRONTUARIO INFORMÁTICO DEL HORMIGÓN 3.1

El momento solicitante es menor que el momento de fisuración M_{fs}=94.3, la fisuración es mínima

OK

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: LOSA

Definición específica del armado

nº de capas: 1
φ [mm]: 32

Separación media entre fisuras s_m [mm]: 140.0
Deformación media de las armaduras ϵ_{sm} [%]: 0.80
Tensión en las armaduras en el instante de fisuración del hormigón σ_{sf} [MPa]: 46.0
Tensión en las armaduras en servicio σ_s [MPa]: 166.4
Abertura característica de fisura w_k [mm]: 0.19

Valores máximos de la abertura de fisura

Clase de exposición	w max [mm]	
	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2 ¹
IIIa, IIb, IV, F	0.2	Descompresión
IIIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

Recubrimiento de la armadura longitudinal c [mm]: 50
Solicitación: ☒ Flexión simple ☐ Tracción simple
Mk [kN·m]: 381

A_s [cm²]: 80.4
A_{c,eficaz} [cm²]: 1000.0

capa n barras sv [mm]
1 10 66.0

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: LOSA

Definición específica del armado

nº de capas: 1
φ [mm]: 32

Separación media entre fisuras s_m [mm]
Deformación media de las armaduras ϵ_{sm} [‰]
Tensión en las armaduras en el instante de fisuración del hormigón σ_{sr} [MPa]
Tensión en las armaduras en servicio σ_s [MPa]
Abertura característica de fisura w_k [mm]

Valores máximos de la abertura de fisura

Clase de exposición	w max [mm]	
	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2 ⁽¹⁾
IIIa, IIb, IV, F	0.2	Descompresión
IIIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

Recubrimiento de la armadura longitudinal c [mm]: 50

Solicitación:
☒ Flexión simple
☐ Tracción simple

Mk [kN·m]: 78.1

A_s [cm²]: 80.4
A_{c,eficaz} [cm²]: 1000.0

capa	n barras	sv [mm]
1	10	66.0

PRONTUARIO INFORMÁTICO DEL HORMIGÓN 3.1

El momento solicitante es menor que el momento de fisuración $M_{fis}=105.4$, la fisuración es mínima

OK

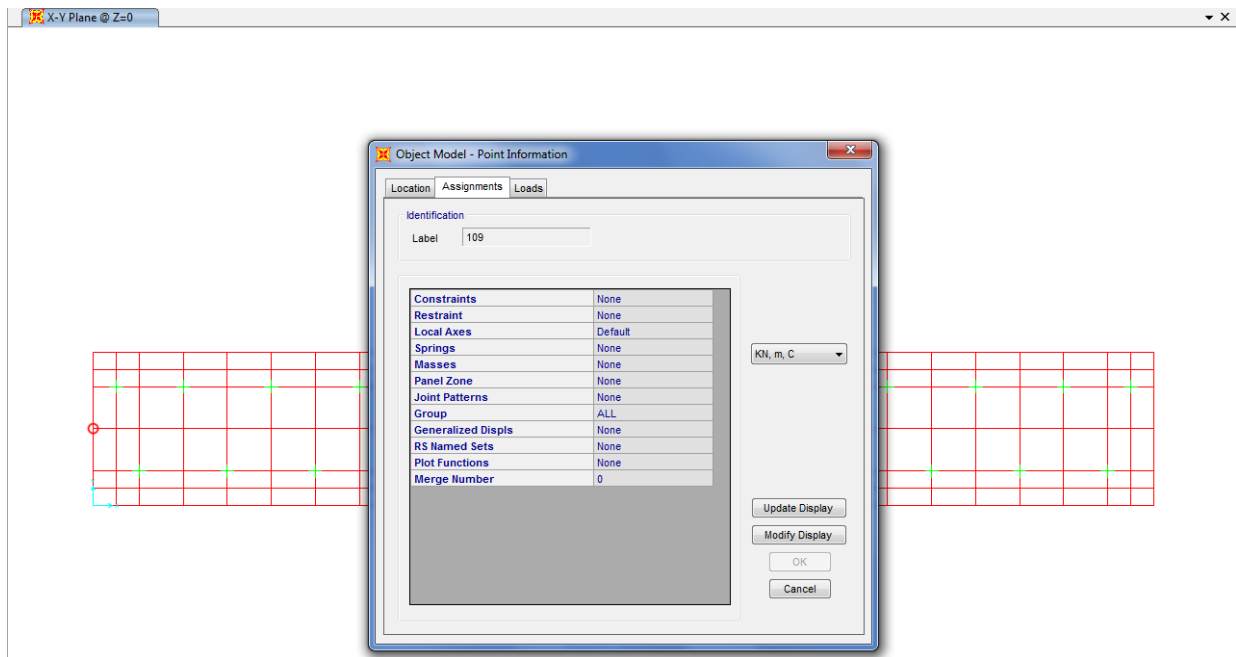


TABLE: Element Forces - Area Shells															
	Area	Elem	Shell	Type	Joint	Output	Case	Type	Step	Type	M11	M22	M12		
	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	KN-m/m	KN-m/m	KN-m/m		
														ALS	ALI
														M11+M12 Min	M11+M12 MA
														M22+M12 MI	M22+M12 M
7	1066	1066	Shell-Thir	109	ENV-ELS	Combination	Max				2,9866822	283,06318	29,277178	0	32,26386037
11	1066	1066	Shell-Thir	109	ENV-ELS	Combination	Min				-5,005887	-133,5298	-126,8892	-131,8950933	0
12	1067	1067	Shell-Thir	109	ENV-ELS	Combination	Max				3,0623443	283,44149	83,041155	0	86,10349959
16	1067	1067	Shell-Thir	109	ENV-ELS	Combination	Min				-6,538051	-133,6486	-80,17675	-86,71480303	0

La armadura es la misma que en el caso anterior. Debido a que los esfuerzos son menores que en dicho caso, no se comprueba la fisuración. Únicamente se comprueba la fisuración para la armadura transversal inferior, cuyo esfuerzo si es superior al caso anterior:

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: LOSA

Definición específica del armado

nº de capas: 1

φ [mm]: 32

Separación media entre fisuras s_m [mm]: 140.0

Deformación media de las armaduras ϵ_{sm} [‰]: 0.77

Tensión en las armaduras en el instante de fisuración del hormigón σ_{sr} [MPa]: 46.0

Tensión en las armaduras en servicio σ_s [MPa]: 160.1

Abertura característica de fisura w_k [mm]: 0.18

Valores máximos de la abertura de fisura

Clase de exposición	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2
IIa, IIb, IV, F	0.2	Descompresión
IIIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

Recubrimiento de la armadura longitudinal c [mm]: 50

Solicitación: Flexión simple

Mk [kN-m]: 366.48

As [cm²]: 80.4

As,eficaz [cm²]: 1000.0

capa: 1 n barras: 10 sv [mm]: 66.0

[illegible]

Para simplificar se hace la comprobación a fisuración con el máximo momento y la mínima armadura, es decir, $M_s = 156,82 \text{ kNm}$ y $A_s = 10f_i20 = 31,4 \text{ cm}^2$:

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección
LOSA

Definición específica del armado

nº de capas: 1
φ [mm]: 20

Ambiente Exposiciones

Qa
Qb
Qc
H
F
E

Recubrimiento de la armadura longitudinal
c [mm]: 50

Solicitación
☒ Flexión simple
☐ Tracción simple

Mk [kN·m]: 156

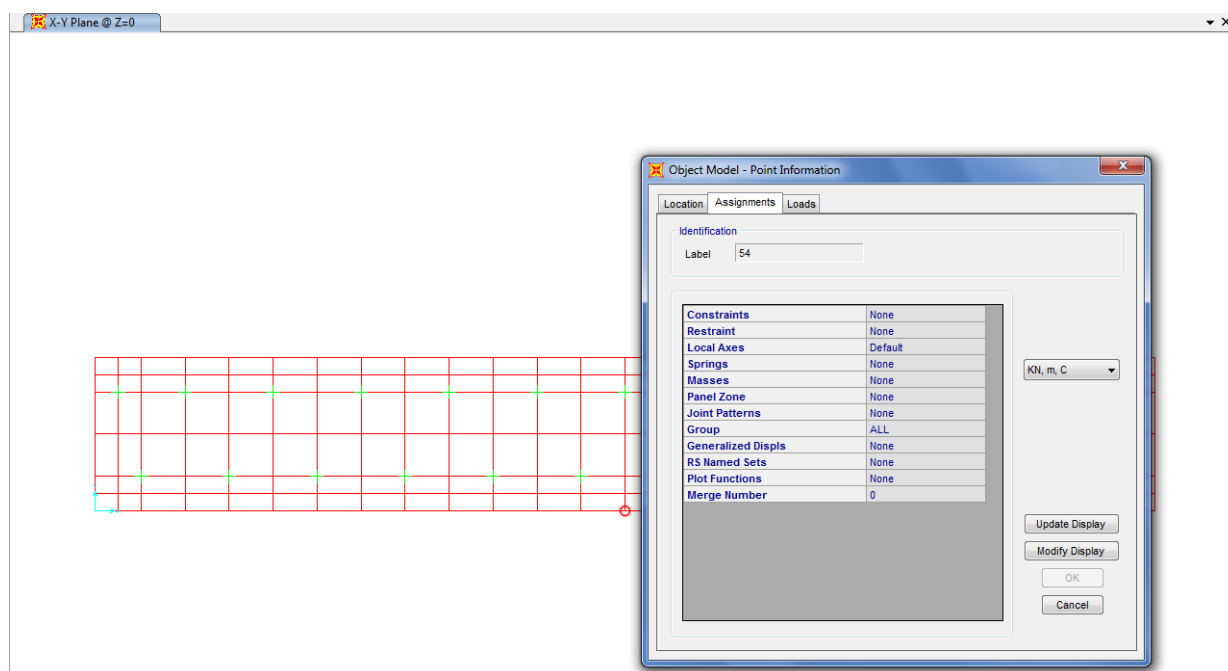
Separación media entre fisuras s_m [mm] 152.0
Deformación media de las armaduras ε_{sm} [%] 0.67
Tensión en las armaduras en el instante de fisuración σ_{sr} [MPa] 96.1
Tensión en las armaduras en servicio σ_s [MPa] 162.7

Abertura característica de fisura wk [mm] 0.17

Clase de exposición	Valores máximos de la apertura de fisura		
	Armado	Pretensado	
I	0.4	0.2	Descompresión
IIa, IIb, H	0.3	0.2¹	
IIIa, IIIb, IV, F	0.2		
IIIC, Qa, Qb, Qc	0.1		

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes.



1	TABLE: Element Forces - Area Shells																			
2	Area	AreaElen	ShellType	Joint	OutputCas	CaseType	StepType	M11	M22	M12		ALS	ALI	ATS	ATI					
3	Tex	Tex	Tex	Tex	Tex	Tex	Tex	KN-m/n	KN-m/n	KN-m/n		M11+M12 MIN	M11+M12 MA	M22+M12 MI	M22+M12 M					
805	1182	1182	Shell-Thir	54	ENV-ELS	Combination	Max	257,74752	3,5620415	47,770935		0	305,5184584	0	51,3329763					
809	1182	1182	Shell-Thir	54	ENV-ELS	Combination	Min	-73,628	-4,61731	-86,08867		-159,7166655	0	-90,70537959	0					
836	1186	1186	Shell-Thir	54	ENV-ELS	Combination	Max	257,74752	3,5620415	86,08867		0	343,8361935	0	89,6507115					
840	1186	1186	Shell-Thir	54	ENV-ELS	Combination	Min	-73,628	-4,61731	-47,77093		-121,3989304	0	-52,38824442	0					
1252																				

Se hace la comprobación de forma análoga al caso anterior. Así, $M = 159,7 \text{ kNm}$ y $A_s = 31,4 \text{ cm}^2$.

PRONTUARIO INFORMÁTICO DEL HORMIGÓN ESTRUCTURAL 3.1 - R2 24.07.2012 - [F1. Fisuración]

Proyecto Materiales Secciones Análisis E.L.U. E.L.S. Ejecución y control Ventana ?

Sección: L05A

Definición específica del armado

nº de capas: 1

φ [mm]: 20

Recubrimiento de la armadura longitudinal: c [mm]: 50

Solicitación: ☒ Flexión simple ☐ Tracción simple

Mk [kN·m]: 159

Definición específica del armado

Ás [cm²]: 31.4

Ás,eficaz [cm²]: 1000.0

capa: 1, n barras: 10, sv [mm]: 60.0

Separación media entre fisuras: s_m [mm]: 152.0

Deformación media de las armaduras: s_{sm} [‰]: 0.69

Tensión en las armaduras en el instante de fisuración del hormigón: σ_{sf} [MPa]: 96.1

Tensión en las armaduras en servicio: σ_s [MPa]: 165.8

Abertura característica de fisura: w_k [mm]: 0.18

Valores máximos de la abertura de fisura

Clase de exposición	w max [mm]	
	Armado	Pretensado
I	0.4	0.2
IIa, IIb, H	0.3	0.2 ¹
IIa, IIb, IV, F	0.2	Descompresión
IIc, Qa, Qb, Qc	0.1	

(1) Adicionalmente deberá comprobarse que las armaduras activas se encuentran en la zona comprimida de la sección, bajo la combinación de acciones cuasipermanentes

6.9 MICROPILOTES

CARGAS			
Momento flector de cálculo	0,00	kNm	
Cortante de Cálculo	0,00	kN	
Axil de Calculo	765,00	kN	
CARACTERÍSTICAS DEL MICROPILEOTE			
Diámetro de perforación =	180	mm	
Tipo de lechada:			100,1
fck =	25	Mpa	
γ=	1,5		
fcd =	17	Mpa	
Tubo:	φ= 114,3	mm	(diámetro exterior)
	ε= 7,1	mm	(espesor)
Acero S-	550	Mpa	
	γ= 1,1		
fyk =	550	Mpa	
fyd =	500	Mpa	
Acero pasivo:			
S=	0,00	mm2	
Acero B-	500 S		
	γ= 1,15		
fsk =	500	Mpa	
fsd =	400	Mpa	
RESISTENCIA ESTRUCTURAL $N_{c,Rd}$:			
$N_{c,Rd} =$	$(0.85 \text{ Ac fcd} + \text{As fsd} + \text{Aa fyd}) R / (1,20 \text{ Fe})$		
Ac1=	Sección neta de lechada o mortero de hormigón INTERIOR		
Ac2=	Sección neta de lechada o mortero de hormigón EXTERIOR		
As=	Sección de cálculo de la armadura tubular		
Aa=	Sección de la barras corrugadas		
R=	Factor empírico de pandeo		
Fe=	Coeficiente de influencia del tipo de ejecución		
re=	Reducción del espesor por efecto de la corrosión		
Fu,c=	Coeficiente de minoración del área en función del tipo de unión de la armadura tubular		
Aa=	$[\pi \cdot ((e-2 \text{ re})^2 - (\psi^3)/4) Fu,c]$		
R=	1,00		
Fe=	1,30		
Fu,c=	1,00	Sin pérdida de sección	
re=	1,2 mm		
Aa=	19,65 cm2	$N_{c,Rd} =$ 629,73	kN, Armadura tubular
As=	0,00 cm2	$N_{c,Rd} =$ 0,00	kN, Armadura en barras pasivas
Ac=	230,56 cm2	$N_{c,Rd} =$ 246,32	kN, Lechada de mortero (total)
Ac1=	78,70 cm2	$N_{c,Rd} =$ 84,08	kN, Lechada de mortero (interior)
Ac2=	151,86 cm2	$N_{c,Rd} =$ 162,24	kN, Lechada de mortero (exterior)
Nc, rd	839,10	kN	OK, $N_{c,Rd} > N_d$

APÉNDICE Nº 1: CÁLCULOS DE LOS ANCLAJES

Dimensiones mínimas del dado-VC 200 mm

D=	0,2 m
S>=	0,65 m
p>=	0,4 m
d=H>=	1,600 m
L1=	3,200 m
L2=	3,200 m

Coeficientes de seguridad

Deslizamiento>=	1,5
Vuelco >=	1,8

Características de los materiales

γ hormigón=	2,3 kg/m3
γ terreno=	1,8 kg/m3
ϕ =	30 °
altura tierras=	1 m

Fuerza de rozamiento:	Empuje hidráulico=	15,03	t
Vmacizo=	16,384 m3		
Vrelleno=	0 m3		
Peso macizo=	37,6832 t		
Peso terreno=	0 t		
Froz=	21,756		

Empuje activo

Ka=	0,333
P1=	0,900 t/m2
P2=	1,860 t/m2
E1=	7,066 t
P3=	0,000 t/m2
P4=	0,000 t/m2
E2=	0,000 t

Cef. Seg.=	1,92 (Valor de la celda 1,5)
------------	------------------------------

Momentos

Eh=	30,0596201 t*m
Et=	4,99712 t*m
P macizo=	60,29312 t*m
P terreno=	0 t*m

Cef. Seg.=	2,17 (Valor de la celda 1,8)
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Dimensiones mínimas del dado-VC 200 mm

D=	0,2 m	<u>Coefficientes de seguridad</u>		<u>Características de los materiales</u>	
S>=	0,65 m	Deslizamiento>=	1,5	γ hormigón=	2,3 kg/m ³
p>=	0,4 m	Vuelco >=	1,8	γ terreno=	1,8 kg/m ³
d=H>=	1,350 m			ϕ =	30 °
L1=	2,700 m			altura tierras=	1 m
L2=	2,700 m				

Fuerza de rozamiento:		Empuje hidráulico=	10,21
Vmacizo=	9,8415 m ³		
Vrelleno=	0 m ³		
Peso macizo=	22,63545 t		
Peso terreno=	0 t		
Froz=	13,069		

Empuje activo

Ka=	0,333
P1=	0,900 t/m ²
P2=	1,710 t/m ²
E1=	4,757 t
P3=	0,000 t/m ²
P4=	0,000 t/m ²
E2=	0,000 t

Cef. Seg.= 1,75 (Valor de la celda 1,5)

Momentos

Eh=	17,8678082 t*m
Et=	2,87863875 t*m
P macizo=	30,5578575 t*m
P terreno=	0 t*m

Cef. Seg.= 1,87 (Valor de la celda 1,8)

Dimensiones mínimas del dado-Codo 11,15º

D=	0,2 m	<u>Coeficientes de seguridad</u>		<u>Características de los materiales</u>	
S>=	0,65 m	Deslizamiento>=	1,5	γ hormigón=	2,3 kg/m3
p>=	0,4 m	Vuelco >=	1,8	γ terreno=	1,8 kg/m3
d=H>=	0,650 m			ϕ =	30 °
				altura tierras=	1 m

Fuerza de rozamiento:

Vmacizo=	1,0985 m3	Empuje hidráulico=	2,46 t
Vrelleno=	2,535 m3		
Peso macizo=	2,52655 t		
Peso terreno=	4,563 t		
Froz=	4,093 t		

Empuje activo

Ka=	0,333
P1=	0,900 t/m2
P2=	1,290 t/m2
E1=	0,925 t
P3=	0,000 t/m2
P4=	0,000 t/m2
E2=	0,000 t

Cef. Seg.= 2,04 (Valor de la celda 1,5)

Momentos

Eh=	2,5866114 t*m
Et=	0,28286375 t*m
P macizo=	1,6422575 t*m
P terreno=	2,96595 t*m

Cef. Seg.= 1,89 (Valor de la celda 1,8)

Dimensiones mínimas del dado-Codo 22,5º

D=	0,2 m	<u>Coefficientes de seguridad</u>		<u>Características de los materiales</u>	
S>=	0,65 m	Deslizamiento>=	1,5	γ hormigón=	2,3 kg/m3
p>=	0,4 m	Vuelco >=	1,8	γ terreno=	1,8 kg/m3
d=H>=	0,850 m			ϕ =	30 °
				altura tierras=	1 m

Fuerza de rozamiento:

Vmacizo=	2,4565 m3	Empuje hidráulico=	4,90 t
Vrelleno=	4,335 m3		
Peso macizo=	5,64995 t		
Peso terreno=	7,803 t		
Froz=	7,767 t		

Empuje activo

Ka=	0,333
P1=	0,900 t/m2
P2=	1,410 t/m2
E1=	1,669 t
P3=	0,000 t/m2
P4=	0,000 t/m2
E2=	0,000 t

Cef. Seg.= 1,92 (Valor de la celda 1,5)

Momentos

Eh=	6,12894322 t*m
Et=	0,65711375 t*m
P macizo=	4,8024575 t*m
P terreno=	6,63255 t*m

Cef. Seg.= 1,97 (Valor de la celda 1,8)

Dimensiones mínimas del dado-Codos 22,5º+11,5º

D=	0,2 m	<u>Coefficientes de seguridad</u>		<u>Características de los materiales</u>	
S>=	0,65 m	Deslizamiento>=	1,5	γ hormigón=	2,3 kg/m3
p>=	0,4 m	Vuelco >=	1,8	γ terreno=	1,8 kg/m3
d=H>=	0,800 m			ϕ =	30 °
				altura tierras=	1 m
Fuerza de rozamiento:					
Vmacizo=	2,048 m3	Empuje hidráulico=	4,56 t		
Vrelleno=	3,84 m3				
Peso macizo=	4,7104 t				
Peso terreno=	6,912 t				
Froz=	6,710 t				
Empuje activo					
Ka=	0,333				
P1=	0,900 t/m2				
P2=	1,380 t/m2				
E1=	1,459 t				
P3=	0,000 t/m2				
P4=	0,000 t/m2				
E2=	0,000 t				
Cef. Seg.=	1,79	(Valor de la celda 1,5)			
Momentos					
Eh=	5,47173726 t*m				
Et=	0,54272 t*m				
P macizo=	3,76832 t*m				
P terreno=	5,5296 t*m				
Cef. Seg.=	1,80	(Valor de la celda 1,8)			

Dimensiones mínimas del dado-Codo 45º

D=	0,2 m
S>=	0,65 m
p>=	0,4 m
d=H>=	0,900 m

Coefficientes de seguridad

Deslizamiento>=	1,5
Vuelco >=	1,8

Características de los materiales

γ hormigón=	2,3 kg/m3
γ terreno=	1,8 kg/m3
ϕ =	30 °
altura tierras=	1 m

Fuerza de rozamiento:

Vmacizo=	2,916 m3
Vrelleno=	4,86 m3
Peso macizo=	6,7068 t
Peso terreno=	8,748 t
Froz=	8,923 t

Empuje hidráulico= 6,01 t

Empuje activo

Ka=	0,333
P1=	0,900 t/m2
P2=	1,440 t/m2
E1=	1,895 t
P3=	0,000 t/m2
P4=	0,000 t/m2
E2=	0,000 t

Cef. Seg.= 1,80 (Valor de la celda 1,5)

Momentos

Eh=	7,81453049 t*m
Et=	0,78732 t*m
P macizo=	6,03612 t*m
P terreno=	7,8732 t*m

Cef. Seg.= 1,88 (Valor de la celda 1,8)

APÉNDICE Nº 2: LISTADO DE CÁLCULO DE LA PASARELA SOBRE LA ESCOTADURA

Table: Material Properties 03a - Steel Data, Part 1 of 2

Table: Material Properties 03a - Steel Data, Part 1 of 2								
Material	Fy KN/m2	Fu KN/m2	EffFy KN/m2	EffFu KN/m2	SSCurveOpt	SSHysType	SHard	SMax
S275	275000.	410000.	275000.	410000.	Simple	Kinematic	0.015	0.11

Table: Material Properties 03a - Steel Data, Part 2 of 2

Table: Material Properties 03a - Steel Data, Part 2 of 2		
Material	SRup	FinalSlope
S275	0,17	-0,1

Table: Frame Section Properties 01 - General, Part 1 of 2

Table: Frame Section Properties 01 - General, Part 1 of 2						
SectionName	Material	Shape	t3 m	t2 m	tf m	tw m
HE140B	S275	I/Wide Flange	0,14	0,14	0,012	0,007
TUBO100X100X8	S275	Box/Tube	0,1	0,1	0,008	0,008
UPN80	S275	Channel	0,08	0,045	0,008	0,006

Table: Frame Section Properties 01 - General, Part 2 of 2

Table: Frame Section Properties 01 - General, Part 2 of 2			
SectionName	t2b m	tfb m	Area m2
HE140B	0,14	0,012	0,0043
TUBO100X100X8			0,002944
UPN80			0,001102

Table: Link Property Definitions 02 - Linear

Table: Link Property Definitions 02 - Linear					
Link	DOF	Fixed	TransKE KN/m	TransCE KN-s/m	DJ m
APOYO	U1	Yes			
APOYO	U2	No	1125,	0,	0,
APOYO	U3	No	1125,	0,	0,
RIGID	U1	Yes			
RIGID	U2	Yes			
RIGID	U3	Yes			
RIGID	R1	Yes			
RIGID	R2	Yes			
RIGID	R3	Yes			

Table: Joint Coordinates

Table: Joint Coordinates						
Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
1	GLOBAL	Cartesian	0,	0,	0,	No

Table: Joint Coordinates

Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
2	GLOBAL	Cartesian	1,2	0,	0,	No
3	GLOBAL	Cartesian	2,4	0,	0,	No
4	GLOBAL	Cartesian	3,6	0,	0,	No
5	GLOBAL	Cartesian	4,8	0,	0,	No
6	GLOBAL	Cartesian	6,	0,	0,	No
7	GLOBAL	Cartesian	7,2	0,	0,	No
8	GLOBAL	Cartesian	8,4	0,	0,	No
9	GLOBAL	Cartesian	9,6	0,	0,	No
10	GLOBAL	Cartesian	10,8	0,	0,	No
11	GLOBAL	Cartesian	12,	0,	0,	No
12	GLOBAL	Cartesian	13,2	0,	0,	No
13	GLOBAL	Cartesian	14,4	0,	0,	No
14	GLOBAL	Cartesian	15,6	0,	0,	No
15	GLOBAL	Cartesian	16,8	0,	0,	Yes
16	GLOBAL	Cartesian	0,	0,	1,1072	No
17	GLOBAL	Cartesian	1,2	0,	1,1072	No
18	GLOBAL	Cartesian	2,4	0,	1,1072	No
19	GLOBAL	Cartesian	3,6	0,	1,1072	No
20	GLOBAL	Cartesian	4,8	0,	1,1072	No
21	GLOBAL	Cartesian	6,	0,	1,1072	No
22	GLOBAL	Cartesian	7,2	0,	1,1072	No
23	GLOBAL	Cartesian	8,4	0,	1,1072	No
24	GLOBAL	Cartesian	9,6	0,	1,1072	No
25	GLOBAL	Cartesian	10,8	0,	1,1072	No
26	GLOBAL	Cartesian	12,	0,	1,1072	No
27	GLOBAL	Cartesian	13,2	0,	1,1072	No
28	GLOBAL	Cartesian	14,4	0,	1,1072	No
29	GLOBAL	Cartesian	15,6	0,	1,1072	No
30	GLOBAL	Cartesian	16,8	0,	1,1072	No
31	GLOBAL	Cartesian	0,	1,05	0,	No
32	GLOBAL	Cartesian	1,2	1,05	0,	No
33	GLOBAL	Cartesian	2,4	1,05	0,	No
34	GLOBAL	Cartesian	3,6	1,05	0,	No
35	GLOBAL	Cartesian	4,8	1,05	0,	No
36	GLOBAL	Cartesian	6,	1,05	0,	No
37	GLOBAL	Cartesian	7,2	1,05	0,	No
38	GLOBAL	Cartesian	8,4	1,05	0,	No
39	GLOBAL	Cartesian	9,6	1,05	0,	No
40	GLOBAL	Cartesian	10,8	1,05	0,	No
41	GLOBAL	Cartesian	12,	1,05	0,	No
42	GLOBAL	Cartesian	13,2	1,05	0,	No
43	GLOBAL	Cartesian	14,4	1,05	0,	No
44	GLOBAL	Cartesian	15,6	1,05	0,	No
45	GLOBAL	Cartesian	16,8	1,05	0,	Yes
46	GLOBAL	Cartesian	0,	1,05	1,1072	No
47	GLOBAL	Cartesian	1,2	1,05	1,1072	No
48	GLOBAL	Cartesian	2,4	1,05	1,1072	No
49	GLOBAL	Cartesian	3,6	1,05	1,1072	No
50	GLOBAL	Cartesian	4,8	1,05	1,1072	No
51	GLOBAL	Cartesian	6,	1,05	1,1072	No
52	GLOBAL	Cartesian	7,2	1,05	1,1072	No
53	GLOBAL	Cartesian	8,4	1,05	1,1072	No
54	GLOBAL	Cartesian	9,6	1,05	1,1072	No
55	GLOBAL	Cartesian	10,8	1,05	1,1072	No
56	GLOBAL	Cartesian	12,	1,05	1,1072	No

Table: Joint Coordinates

Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
57	GLOBAL	Cartesian	13,2	1,05	1,1072	No
58	GLOBAL	Cartesian	14,4	1,05	1,1072	No
59	GLOBAL	Cartesian	15,6	1,05	1,1072	No
60	GLOBAL	Cartesian	16,8	1,05	1,1072	No
61	GLOBAL	Cartesian	7,2	1,05	-0,674	No
62	GLOBAL	Cartesian	9,6	1,05	-0,674	No
63	GLOBAL	Cartesian	7,2	0,	-0,674	No
64	GLOBAL	Cartesian	9,6	0,	-0,674	No
66	GLOBAL	Cartesian	0,	0,525	-0,07	No
68	GLOBAL	Cartesian	0,	1,05	-0,07	No
70	GLOBAL	Cartesian	0,	0,	-0,07	No
72	GLOBAL	Cartesian	16,8	0,525	-0,07	Yes
74	GLOBAL	Cartesian	16,8	1,05	-0,07	Yes
75	GLOBAL	Cartesian	16,8	0,	-0,07	Yes
91	GLOBAL	Cartesian	1,2	0,	-0,674	No
92	GLOBAL	Cartesian	1,2	1,05	-0,674	No
93	GLOBAL	Cartesian	15,6	0,	-0,674	No
94	GLOBAL	Cartesian	15,6	1,05	-0,674	No
97	GLOBAL	Cartesian	3,6	0,	-0,674	No
98	GLOBAL	Cartesian	3,6	1,05	-0,674	No
99	GLOBAL	Cartesian	13,2	0,	-0,674	No
100	GLOBAL	Cartesian	13,2	1,05	-0,674	No
101	GLOBAL	Cartesian	4,66	0,	-0,674	No
102	GLOBAL	Cartesian	4,66	1,05	-0,674	No
103	GLOBAL	Cartesian	5,66	0,	-0,674	No
104	GLOBAL	Cartesian	5,66	1,05	-0,674	No
105	GLOBAL	Cartesian	10,66	0,	-0,674	No
106	GLOBAL	Cartesian	10,66	1,05	-0,674	No
107	GLOBAL	Cartesian	11,66	0,	-0,674	No
108	GLOBAL	Cartesian	11,66	1,05	-0,674	No

Table: Joint Restraint Assignments

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
66	Yes	Yes	Yes	Yes	Yes	Yes
72	Yes	Yes	Yes	Yes	Yes	Yes

Table: Joint Pattern Definitions

Table: Joint
Pattern Definitions

Pattern
GRA-HEAT
GRA-COOL

Table: Connectivity - Frame

Table: Connectivity - Frame			
Frame	JointI	JointJ	IsCurved
1	1	2	No
2	2	3	No
3	3	4	No
4	4	5	No
5	5	6	No
6	6	7	No
7	7	8	No
8	8	9	No
9	9	10	No
10	10	11	No
11	11	12	No
12	12	13	No
13	13	14	No
14	14	15	No
15	16	17	No
16	17	18	No
17	18	19	No
18	19	20	No
19	20	21	No
20	21	22	No
21	22	23	No
22	23	24	No
23	24	25	No
24	25	26	No
25	26	27	No
26	27	28	No
27	28	29	No
28	29	30	No
29	8	23	No
30	8	22	No
31	22	7	No
32	7	21	No
33	21	6	No
34	6	20	No
35	20	5	No
36	5	19	No
37	19	4	No
38	4	18	No
39	18	3	No
40	3	17	No
41	17	2	No
42	2	16	No
43	16	1	No
44	8	24	No
45	24	9	No
46	9	25	No
47	25	10	No
48	10	26	No
49	26	11	No
50	11	27	No
51	27	12	No
52	12	28	No
53	28	13	No

Table: Connectivity - Frame

Frame	JointI	JointJ	IsCurved
54	13	29	No
55	29	14	No
56	14	30	No
57	30	15	No
58	31	32	No
59	32	33	No
60	33	34	No
61	34	35	No
62	35	36	No
63	36	37	No
64	37	38	No
65	38	39	No
66	39	40	No
67	40	41	No
68	41	42	No
69	42	43	No
70	43	44	No
71	44	45	No
72	46	47	No
73	47	48	No
74	48	49	No
75	49	50	No
76	50	51	No
77	51	52	No
78	52	53	No
79	53	54	No
80	54	55	No
81	55	56	No
82	56	57	No
83	57	58	No
84	58	59	No
85	59	60	No
86	38	53	No
87	38	52	No
88	52	37	No
89	37	51	No
90	51	36	No
91	36	50	No
92	50	35	No
93	35	49	No
94	49	34	No
95	34	48	No
96	48	33	No
97	33	47	No
98	47	32	No
99	32	46	No
100	46	31	No
101	38	54	No
102	54	39	No
103	39	55	No
104	55	40	No
105	40	56	No
106	56	41	No
107	41	57	No
108	57	42	No

Table: Connectivity - Frame

Frame	JointI	JointJ	IsCurved
109	42	58	No
110	58	43	No
111	43	59	No
112	59	44	No
113	44	60	No
114	60	45	No
115	1	31	No
116	2	32	No
117	3	33	No
118	4	34	No
119	5	35	No
120	6	36	No
121	7	37	No
122	8	38	No
123	9	39	No
124	10	40	No
125	11	41	No
126	12	42	No
127	13	43	No
128	14	44	No
129	15	45	No
130	91	92	No
131	93	94	No
133	97	98	No
134	99	100	No
135	91	2	No
136	92	32	No
137	97	4	No
138	98	34	No
139	104	61	No
141	99	12	No
142	100	42	No
143	93	14	No
144	94	44	No
145	101	102	No
146	103	104	No
147	105	106	No
148	107	108	No
149	91	97	No
150	97	101	No
151	101	103	No
153	62	106	No
154	105	107	No
155	107	99	No
156	99	93	No
157	92	98	No
158	98	102	No
159	102	104	No
160	103	63	No
162	106	108	No
163	108	100	No
164	100	94	No
168	64	105	No
169	63	61	No
170	64	62	No

Table: Connectivity - Frame

Frame	JointI	JointJ	IsCurved
171	63	7	No
172	61	37	No
173	64	9	No
174	62	39	No
175	61	62	No
176	63	64	No

Table: Connectivity - Link

Table: Connectivity - Link

Link	JointI	JointJ
1	68	66
2	66	70
3	68	31
4	70	1
5	74	72
6	72	75
7	74	45
8	75	15

Table: Link Property Assignments

Table: Link Property Assignments

Link	LinkType	LinkJoints	LinkProp	LinkFDProp	PropMod
1	Linear	TwoJoint	RIGID	None	1,
2	Linear	TwoJoint	RIGID	None	1,
3	Linear	TwoJoint	APOYO	None	1,
4	Linear	TwoJoint	APOYO	None	1,
5	Linear	TwoJoint	RIGID	None	1,
6	Linear	TwoJoint	RIGID	None	1,
7	Linear	TwoJoint	APOYO	None	1,
8	Linear	TwoJoint	APOYO	None	1,

Table: Frame Release Assignments 1 - General, Part 1 of 2

Table: Frame Release Assignments 1 - General, Part 1 of 2

Frame	PI	V2I	V3I	TI	M2I	M3I	PJ	V2J
120	No	No	No	No	Yes	Yes	No	No
121	No	No	No	No	Yes	Yes	No	No
122	No	No	No	No	Yes	Yes	No	No
123	No	No	No	No	Yes	Yes	No	No
124	No	No	No	No	Yes	Yes	No	No

Table: Frame Release Assignments 1 - General, Part 2 of 2

Table: Frame Release Assignments 1 - General, Part 2 of 2

Frame	V3J	TJ	M2J	M3J	PartialFix
120	No	No	Yes	Yes	No
121	No	No	Yes	Yes	No
122	No	No	Yes	Yes	No
123	No	No	Yes	Yes	No
124	No	No	Yes	Yes	No

Table: Frame Section Assignments

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1	I/Wide Flange	N.A.	HE140B	HE140B	Default
2	I/Wide Flange	N.A.	HE140B	HE140B	Default
3	I/Wide Flange	N.A.	HE140B	HE140B	Default
4	I/Wide Flange	N.A.	HE140B	HE140B	Default
5	I/Wide Flange	N.A.	HE140B	HE140B	Default
6	I/Wide Flange	N.A.	HE140B	HE140B	Default
7	I/Wide Flange	N.A.	HE140B	HE140B	Default
8	I/Wide Flange	N.A.	HE140B	HE140B	Default
9	I/Wide Flange	N.A.	HE140B	HE140B	Default
10	I/Wide Flange	N.A.	HE140B	HE140B	Default
11	I/Wide Flange	N.A.	HE140B	HE140B	Default
12	I/Wide Flange	N.A.	HE140B	HE140B	Default
13	I/Wide Flange	N.A.	HE140B	HE140B	Default
14	I/Wide Flange	N.A.	HE140B	HE140B	Default
15	I/Wide Flange	N.A.	HE140B	HE140B	Default
16	I/Wide Flange	N.A.	HE140B	HE140B	Default
17	I/Wide Flange	N.A.	HE140B	HE140B	Default
18	I/Wide Flange	N.A.	HE140B	HE140B	Default
19	I/Wide Flange	N.A.	HE140B	HE140B	Default
20	I/Wide Flange	N.A.	HE140B	HE140B	Default
21	I/Wide Flange	N.A.	HE140B	HE140B	Default
22	I/Wide Flange	N.A.	HE140B	HE140B	Default
23	I/Wide Flange	N.A.	HE140B	HE140B	Default
24	I/Wide Flange	N.A.	HE140B	HE140B	Default
25	I/Wide Flange	N.A.	HE140B	HE140B	Default
26	I/Wide Flange	N.A.	HE140B	HE140B	Default
27	I/Wide Flange	N.A.	HE140B	HE140B	Default
28	I/Wide Flange	N.A.	HE140B	HE140B	Default
29	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
30	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
31	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
32	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
33	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
34	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
35	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
36	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
37	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
38	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
39	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
40	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
41	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
42	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
43	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
44	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
45	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
46	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
47	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
48	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
49	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
50	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
51	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
52	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
53	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
54	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
55	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
56	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
57	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
58	I/Wide Flange	N.A.	HE140B	HE140B	Default
59	I/Wide Flange	N.A.	HE140B	HE140B	Default
60	I/Wide Flange	N.A.	HE140B	HE140B	Default
61	I/Wide Flange	N.A.	HE140B	HE140B	Default
62	I/Wide Flange	N.A.	HE140B	HE140B	Default
63	I/Wide Flange	N.A.	HE140B	HE140B	Default
64	I/Wide Flange	N.A.	HE140B	HE140B	Default
65	I/Wide Flange	N.A.	HE140B	HE140B	Default
66	I/Wide Flange	N.A.	HE140B	HE140B	Default
67	I/Wide Flange	N.A.	HE140B	HE140B	Default
68	I/Wide Flange	N.A.	HE140B	HE140B	Default
69	I/Wide Flange	N.A.	HE140B	HE140B	Default
70	I/Wide Flange	N.A.	HE140B	HE140B	Default
71	I/Wide Flange	N.A.	HE140B	HE140B	Default
72	I/Wide Flange	N.A.	HE140B	HE140B	Default
73	I/Wide Flange	N.A.	HE140B	HE140B	Default
74	I/Wide Flange	N.A.	HE140B	HE140B	Default
75	I/Wide Flange	N.A.	HE140B	HE140B	Default
76	I/Wide Flange	N.A.	HE140B	HE140B	Default
77	I/Wide Flange	N.A.	HE140B	HE140B	Default
78	I/Wide Flange	N.A.	HE140B	HE140B	Default
79	I/Wide Flange	N.A.	HE140B	HE140B	Default
80	I/Wide Flange	N.A.	HE140B	HE140B	Default
81	I/Wide Flange	N.A.	HE140B	HE140B	Default
82	I/Wide Flange	N.A.	HE140B	HE140B	Default
83	I/Wide Flange	N.A.	HE140B	HE140B	Default
84	I/Wide Flange	N.A.	HE140B	HE140B	Default
85	I/Wide Flange	N.A.	HE140B	HE140B	Default
86	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
87	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
88	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
89	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
90	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
91	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
92	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
93	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
94	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
95	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
96	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
97	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
98	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
99	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
100	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
101	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
102	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
103	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
104	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
105	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
106	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
107	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
108	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
109	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
110	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
111	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
112	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
113	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
114	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
115	I/Wide Flange	N.A.	HE140B	HE140B	Default
116	I/Wide Flange	N.A.	HE140B	HE140B	Default
117	I/Wide Flange	N.A.	HE140B	HE140B	Default
118	I/Wide Flange	N.A.	HE140B	HE140B	Default
119	I/Wide Flange	N.A.	HE140B	HE140B	Default
120	I/Wide Flange	N.A.	HE140B	HE140B	Default
121	I/Wide Flange	N.A.	HE140B	HE140B	Default
122	I/Wide Flange	N.A.	HE140B	HE140B	Default
123	I/Wide Flange	N.A.	HE140B	HE140B	Default
124	I/Wide Flange	N.A.	HE140B	HE140B	Default
125	I/Wide Flange	N.A.	HE140B	HE140B	Default
126	I/Wide Flange	N.A.	HE140B	HE140B	Default
127	I/Wide Flange	N.A.	HE140B	HE140B	Default
128	I/Wide Flange	N.A.	HE140B	HE140B	Default
129	I/Wide Flange	N.A.	HE140B	HE140B	Default
130	I/Wide Flange	N.A.	HE140B	HE140B	Default
131	I/Wide Flange	N.A.	HE140B	HE140B	Default
133	I/Wide Flange	N.A.	HE140B	HE140B	Default
134	I/Wide Flange	N.A.	HE140B	HE140B	Default
135	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
136	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
137	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
138	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
139	I/Wide Flange	N.A.	HE140B	HE140B	Default
141	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
142	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
143	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
144	Tube	N.A.	TUBO100X100X8	TUBO100X100X8	Default
145	I/Wide Flange	N.A.	HE140B	HE140B	Default
146	I/Wide Flange	N.A.	HE140B	HE140B	Default
147	I/Wide Flange	N.A.	HE140B	HE140B	Default
148	I/Wide Flange	N.A.	HE140B	HE140B	Default
149	I/Wide Flange	N.A.	HE140B	HE140B	Default
150	I/Wide Flange	N.A.	HE140B	HE140B	Default
151	I/Wide Flange	N.A.	HE140B	HE140B	Default
153	I/Wide Flange	N.A.	HE140B	HE140B	Default
154	I/Wide Flange	N.A.	HE140B	HE140B	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
155	I/Wide Flange	N.A.	HE140B	HE140B	Default
156	I/Wide Flange	N.A.	HE140B	HE140B	Default
157	I/Wide Flange	N.A.	HE140B	HE140B	Default
158	I/Wide Flange	N.A.	HE140B	HE140B	Default
159	I/Wide Flange	N.A.	HE140B	HE140B	Default
160	I/Wide Flange	N.A.	HE140B	HE140B	Default
162	I/Wide Flange	N.A.	HE140B	HE140B	Default
163	I/Wide Flange	N.A.	HE140B	HE140B	Default
164	I/Wide Flange	N.A.	HE140B	HE140B	Default
168	I/Wide Flange	N.A.	HE140B	HE140B	Default
169	I/Wide Flange	N.A.	HE140B	HE140B	Default
170	I/Wide Flange	N.A.	HE140B	HE140B	Default
171	Channel	N.A.	UPN80	UPN80	Default
172	Channel	N.A.	UPN80	UPN80	Default
173	Channel	N.A.	UPN80	UPN80	Default
174	Channel	N.A.	UPN80	UPN80	Default
175	I/Wide Flange	N.A.	HE140B	HE140B	Default
176	I/Wide Flange	N.A.	HE140B	HE140B	Default

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult
PP	Dead	1,
CM-TUBERIA	Dead	0,
CM-TRAMEX+REJILLA	Dead	0,
SCU	Live	0,
VTSSC	Live	0,
VTSCC	Live	0,
VV	Live	0,
VLSSC	Live	0,
VLSCC	Live	0,
TU-DIL	Live	0,
TU-CON	Live	0,
GRA-HEAT	Live	0,
GRA-COOL	Live	0,

Table: Load Case Definitions, Part 1 of 2

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	GUID
PP	LinStatic	Zero				
CM-TUBERIA	LinStatic	Zero				
CM-TRAMEX+REJILLA	LinStatic	Zero				
SCU	LinStatic	Zero				
VTSSC	LinStatic	Zero				
VTSCC	LinStatic	Zero				
VV	LinStatic	Zero				

Table: Load Case Definitions, Part 1 of 2

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	GUID
VLSSC	LinStatic	Zero				
VLCSC	LinStatic	Zero				
TU-DIL	LinStatic	Zero				
TU-CON	LinStatic	Zero				
GRA-HEAT	LinStatic	Zero				
GRA-COOL	LinStatic	Zero				
MODAL	LinModal	Zero				

Table: Load Case Definitions, Part 2 of 2

Table: Load Case Definitions, Part 2 of 2

Case	Notes
PP	
CM-TUBERIA	
CM-TRAMEX+R	
EJILLA	
SCU	
VTSSC	
UTCSC	
VV	
VLSSC	
VLCSC	
TU-DIL	
TU-CON	
GRA-HEAT	
GRA-COOL	
MODAL	

Table: Combination Definitions

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-1	Linear Add	No	Linear Static	PP	1,
ELS-CHK-1			Linear Static	CM-TUBERIA	1,
ELS-CHK-1			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-1			Linear Static	SCU	1,
ELS-CHK-1			Linear Static	VTSSC	0,
ELS-CHK-1			Linear Static	UTCSC	0,
ELS-CHK-1			Linear Static	VV	0,
ELS-CHK-1			Linear Static	VLSSC	0,
ELS-CHK-1			Linear Static	VLCSC	0,
ELS-CHK-1			Linear Static	TU-DIL	0,21
ELS-CHK-1			Linear Static	TU-CON	0,
ELS-CHK-1			Linear Static	GRA-HEAT	0,6
ELS-CHK-1			Linear Static	GRA-COOL	0,
ELS-CHK-2	Linear Add	No	Linear Static	PP	1,
ELS-CHK-2			Linear Static	CM-TUBERIA	1,
ELS-CHK-2			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-2			Linear Static	SCU	1,
ELS-CHK-2			Linear Static	VTSSC	0,
ELS-CHK-2			Linear Static	VTSCSC	0,
ELS-CHK-2			Linear Static	VV	0,
ELS-CHK-2			Linear Static	VLSSC	0,
ELS-CHK-2			Linear Static	VLCSC	0,
ELS-CHK-2			Linear Static	TU-DIL	0,
ELS-CHK-2			Linear Static	TU-CON	0,21
ELS-CHK-2			Linear Static	GRA-HEAT	0,6
ELS-CHK-2			Linear Static	GRA-COOL	0,
ELS-CHK-3	Linear Add	No	Linear Static	PP	1,
ELS-CHK-3			Linear Static	CM-TUBERIA	1,
ELS-CHK-3			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-3			Linear Static	SCU	1,
ELS-CHK-3			Linear Static	VTSSC	0,
ELS-CHK-3			Linear Static	VTSCSC	0,
ELS-CHK-3			Linear Static	VV	0,
ELS-CHK-3			Linear Static	VLSSC	0,
ELS-CHK-3			Linear Static	VLCSC	0,
ELS-CHK-3			Linear Static	TU-DIL	0,21
ELS-CHK-3			Linear Static	TU-CON	0,
ELS-CHK-3			Linear Static	GRA-HEAT	0,
ELS-CHK-3			Linear Static	GRA-COOL	0,6
ELS-CHK-4	Linear Add	No	Linear Static	PP	1,
ELS-CHK-4			Linear Static	CM-TUBERIA	1,
ELS-CHK-4			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-4			Linear Static	SCU	1,
ELS-CHK-4			Linear Static	VTSSC	0,
ELS-CHK-4			Linear Static	VTSCSC	0,
ELS-CHK-4			Linear Static	VV	0,
ELS-CHK-4			Linear Static	VLSSC	0,
ELS-CHK-4			Linear Static	VLCSC	0,
ELS-CHK-4			Linear Static	TU-DIL	0,
ELS-CHK-4			Linear Static	TU-CON	0,21
ELS-CHK-4			Linear Static	GRA-HEAT	0,
ELS-CHK-4			Linear Static	GRA-COOL	0,6
ELS-CHK-5	Linear Add	No	Linear Static	PP	1,
ELS-CHK-5			Linear Static	CM-TUBERIA	1,
ELS-CHK-5			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-5			Linear Static	SCU	1,
ELS-CHK-5			Linear Static	VTSSC	0,
ELS-CHK-5			Linear Static	VTSCSC	0,
ELS-CHK-5			Linear Static	VV	0,
ELS-CHK-5			Linear Static	VLSSC	0,
ELS-CHK-5			Linear Static	VLCSC	0,
ELS-CHK-5			Linear Static	TU-DIL	0,6
ELS-CHK-5			Linear Static	TU-CON	0,
ELS-CHK-5			Linear Static	GRA-HEAT	0,45
ELS-CHK-5			Linear Static	GRA-COOL	0,
ELS-CHK-6	Linear Add	No	Linear Static	PP	1,
ELS-CHK-6			Linear Static	CM-TUBERIA	1,
ELS-CHK-6			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-6	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-6			Linear Static	VTSSC	0,
ELS-CHK-6			Linear Static	VTSCSC	0,
ELS-CHK-6			Linear Static	VV	0,
ELS-CHK-6			Linear Static	VLSSC	0,
ELS-CHK-6			Linear Static	VLCSC	0,
ELS-CHK-6			Linear Static	TU-DIL	0,
ELS-CHK-6			Linear Static	TU-CON	0,6
ELS-CHK-6			Linear Static	GRA-HEAT	0,45
ELS-CHK-6			Linear Static	GRA-COOL	0,
ELS-CHK-7	Linear Add	No	Linear Static	PP	1,
ELS-CHK-7			Linear Static	CM-TUBERIA	1,
ELS-CHK-7			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-7			Linear Static	SCU	1,
ELS-CHK-7			Linear Static	VTSSC	0,
ELS-CHK-7			Linear Static	VTSCSC	0,
ELS-CHK-7			Linear Static	VV	0,
ELS-CHK-7			Linear Static	VLSSC	0,
ELS-CHK-7			Linear Static	VLCSC	0,
ELS-CHK-7			Linear Static	TU-DIL	0,6
ELS-CHK-7	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-7			Linear Static	GRA-HEAT	0,
ELS-CHK-7			Linear Static	GRA-COOL	0,45
ELS-CHK-8			Linear Static	PP	1,
ELS-CHK-8			Linear Static	CM-TUBERIA	1,
ELS-CHK-8			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-8			Linear Static	SCU	1,
ELS-CHK-8			Linear Static	VTSSC	0,
ELS-CHK-8			Linear Static	VTSCSC	0,
ELS-CHK-8			Linear Static	VV	0,
ELS-CHK-8	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-8			Linear Static	VLCSC	0,
ELS-CHK-8			Linear Static	TU-DIL	0,
ELS-CHK-8			Linear Static	TU-CON	0,6
ELS-CHK-8			Linear Static	GRA-HEAT	0,
ELS-CHK-8			Linear Static	GRA-COOL	0,45
ELS-CHK-9			Linear Static	PP	1,
ELS-CHK-9			Linear Static	CM-TUBERIA	1,
ELS-CHK-9			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-9			Linear Static	SCU	1,
ELS-CHK-9	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-9			Linear Static	VTSCSC	0,3
ELS-CHK-9			Linear Static	VV	0,
ELS-CHK-9			Linear Static	VLSSC	0,
ELS-CHK-9			Linear Static	VLCSC	0,
ELS-CHK-9			Linear Static	TU-DIL	0,21
ELS-CHK-9			Linear Static	TU-CON	0,
ELS-CHK-9			Linear Static	GRA-HEAT	0,6
ELS-CHK-9			Linear Static	GRA-COOL	0,
ELS-CHK-10			Linear Static	PP	1,
ELS-CHK-10	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-10			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-10	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-10			Linear Static	VTSSC	0,
ELS-CHK-10			Linear Static	VTSCSC	0,3
ELS-CHK-10			Linear Static	VV	0,
ELS-CHK-10			Linear Static	VLSSC	0,
ELS-CHK-10			Linear Static	VLCS	0,
ELS-CHK-10			Linear Static	TU-DIL	0,
ELS-CHK-10			Linear Static	TU-CON	0,21
ELS-CHK-10			Linear Static	GRA-HEAT	0,6
ELS-CHK-10			Linear Static	GRA-COOL	0,
ELS-CHK-11			Linear Static	PP	1,
ELS-CHK-11			Linear Static	CM-TUBERIA	1,
ELS-CHK-11			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-11	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-11			Linear Static	VTSSC	0,
ELS-CHK-11			Linear Static	VTSCSC	0,3
ELS-CHK-11			Linear Static	VV	0,
ELS-CHK-11			Linear Static	VLSSC	0,
ELS-CHK-11			Linear Static	VLCS	0,
ELS-CHK-11			Linear Static	TU-DIL	0,21
ELS-CHK-11			Linear Static	TU-CON	0,
ELS-CHK-11			Linear Static	GRA-HEAT	0,
ELS-CHK-11			Linear Static	GRA-COOL	0,6
ELS-CHK-12			Linear Static	PP	1,
ELS-CHK-12			Linear Static	CM-TUBERIA	1,
ELS-CHK-12			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-12	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-12			Linear Static	VTSSC	0,
ELS-CHK-12			Linear Static	VTSCSC	0,3
ELS-CHK-12			Linear Static	VV	0,
ELS-CHK-12			Linear Static	VLSSC	0,
ELS-CHK-12			Linear Static	VLCS	0,
ELS-CHK-12			Linear Static	TU-DIL	0,
ELS-CHK-12			Linear Static	TU-CON	0,21
ELS-CHK-12			Linear Static	GRA-HEAT	0,
ELS-CHK-12			Linear Static	GRA-COOL	0,6
ELS-CHK-13			Linear Static	PP	1,
ELS-CHK-13			Linear Static	CM-TUBERIA	1,
ELS-CHK-13			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-13	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-13			Linear Static	VTSSC	0,
ELS-CHK-13			Linear Static	VTSCSC	0,3
ELS-CHK-13			Linear Static	VV	0,
ELS-CHK-13			Linear Static	VLSSC	0,
ELS-CHK-13			Linear Static	VLCS	0,
ELS-CHK-13			Linear Static	TU-DIL	0,6
ELS-CHK-13			Linear Static	TU-CON	0,
ELS-CHK-13			Linear Static	GRA-HEAT	0,45
ELS-CHK-13			Linear Static	GRA-COOL	0,
ELS-CHK-14			Linear Static	PP	1,
ELS-CHK-14			Linear Static	CM-TUBERIA	1,
ELS-CHK-14			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-14	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-14			Linear Static	VTSSC	0,
ELS-CHK-14			Linear Static	VTSCSC	0,3
ELS-CHK-14			Linear Static	VV	0,
ELS-CHK-14			Linear Static	VLSSC	0,
ELS-CHK-14			Linear Static	VLCSC	0,
ELS-CHK-14			Linear Static	TU-DIL	0,
ELS-CHK-14			Linear Static	TU-CON	0,6
ELS-CHK-14			Linear Static	GRA-HEAT	0,45
ELS-CHK-14			Linear Static	GRA-COOL	0,
ELS-CHK-15	Linear Add	No	Linear Static	PP	1,
ELS-CHK-15			Linear Static	CM-TUBERIA	1,
ELS-CHK-15			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-15			Linear Static	SCU	1,
ELS-CHK-15			Linear Static	VTSSC	0,
ELS-CHK-15			Linear Static	VTSCSC	0,3
ELS-CHK-15			Linear Static	VV	0,
ELS-CHK-15			Linear Static	VLSSC	0,
ELS-CHK-15			Linear Static	VLCSC	0,
ELS-CHK-15			Linear Static	TU-DIL	0,6
ELS-CHK-15	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-15			Linear Static	GRA-HEAT	0,
ELS-CHK-15			Linear Static	GRA-COOL	0,45
ELS-CHK-16			Linear Static	PP	1,
ELS-CHK-16			Linear Static	CM-TUBERIA	1,
ELS-CHK-16			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-16			Linear Static	SCU	1,
ELS-CHK-16			Linear Static	VTSSC	0,
ELS-CHK-16			Linear Static	VTSCSC	0,3
ELS-CHK-16			Linear Static	VV	0,
ELS-CHK-16	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-16			Linear Static	VLCSC	0,
ELS-CHK-16			Linear Static	TU-DIL	0,
ELS-CHK-16			Linear Static	TU-CON	0,6
ELS-CHK-16			Linear Static	GRA-HEAT	0,
ELS-CHK-16			Linear Static	GRA-COOL	0,45
ELS-CHK-17			Linear Static	PP	1,
ELS-CHK-17			Linear Static	CM-TUBERIA	1,
ELS-CHK-17			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-17			Linear Static	SCU	1,
ELS-CHK-17	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-17			Linear Static	VTSCSC	0,3
ELS-CHK-17			Linear Static	VV	0,3
ELS-CHK-17			Linear Static	VLSSC	0,
ELS-CHK-17			Linear Static	VLCSC	0,
ELS-CHK-17			Linear Static	TU-DIL	0,21
ELS-CHK-17			Linear Static	TU-CON	0,
ELS-CHK-17			Linear Static	GRA-HEAT	0,6
ELS-CHK-17			Linear Static	GRA-COOL	0,
ELS-CHK-18			Linear Static	PP	1,
ELS-CHK-18	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-18			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-18	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-18			Linear Static	VTSSC	0,
ELS-CHK-18			Linear Static	VTSCSC	0,3
ELS-CHK-18			Linear Static	VV	0,3
ELS-CHK-18			Linear Static	VLSSC	0,
ELS-CHK-18			Linear Static	VLCS	0,
ELS-CHK-18			Linear Static	TU-DIL	0,
ELS-CHK-18			Linear Static	TU-CON	0,21
ELS-CHK-18			Linear Static	GRA-HEAT	0,6
ELS-CHK-18			Linear Static	GRA-COOL	0,
ELS-CHK-19			Linear Static	PP	1,
ELS-CHK-19			Linear Static	CM-TUBERIA	1,
ELS-CHK-19			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-19			Linear Static	SCU	1,
ELS-CHK-19			Linear Static	VTSSC	0,
ELS-CHK-19	Linear Add	No	Linear Static	VTSCSC	0,3
ELS-CHK-19			Linear Static	VV	0,3
ELS-CHK-19			Linear Static	VLSSC	0,
ELS-CHK-19			Linear Static	VLCS	0,
ELS-CHK-19			Linear Static	TU-DIL	0,21
ELS-CHK-19			Linear Static	TU-CON	0,
ELS-CHK-19			Linear Static	GRA-HEAT	0,
ELS-CHK-19			Linear Static	GRA-COOL	0,6
ELS-CHK-20			Linear Static	PP	1,
ELS-CHK-20			Linear Static	CM-TUBERIA	1,
ELS-CHK-20			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-20			Linear Static	SCU	1,
ELS-CHK-20			Linear Static	VTSSC	0,
ELS-CHK-20			Linear Static	VTSCSC	0,3
ELS-CHK-20			Linear Static	VV	0,3
ELS-CHK-20	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-20			Linear Static	VLCS	0,
ELS-CHK-20			Linear Static	TU-DIL	0,
ELS-CHK-20			Linear Static	TU-CON	0,21
ELS-CHK-20			Linear Static	GRA-HEAT	0,
ELS-CHK-20			Linear Static	GRA-COOL	0,6
ELS-CHK-21			Linear Static	PP	1,
ELS-CHK-21			Linear Static	CM-TUBERIA	1,
ELS-CHK-21			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-21			Linear Static	SCU	1,
ELS-CHK-21			Linear Static	VTSSC	0,
ELS-CHK-21			Linear Static	VTSCSC	0,3
ELS-CHK-21			Linear Static	VV	0,3
ELS-CHK-21			Linear Static	VLSSC	0,
ELS-CHK-21			Linear Static	VLCS	0,
ELS-CHK-21	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-21			Linear Static	TU-CON	0,
ELS-CHK-21			Linear Static	GRA-HEAT	0,45
ELS-CHK-21			Linear Static	GRA-COOL	0,
ELS-CHK-22			Linear Static	PP	1,
ELS-CHK-22			Linear Static	CM-TUBERIA	1,
ELS-CHK-22			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-22	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-22			Linear Static	VTSSC	0,
ELS-CHK-22			Linear Static	VTSCSC	0,3
ELS-CHK-22			Linear Static	VV	0,3
ELS-CHK-22			Linear Static	VLSSC	0,
ELS-CHK-22			Linear Static	VLCSC	0,
ELS-CHK-22			Linear Static	TU-DIL	0,
ELS-CHK-22			Linear Static	TU-CON	0,6
ELS-CHK-22			Linear Static	GRA-HEAT	0,45
ELS-CHK-22			Linear Static	GRA-COOL	0,
ELS-CHK-23			Linear Static	PP	1,
ELS-CHK-23			Linear Static	CM-TUBERIA	1,
ELS-CHK-23	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-23			Linear Static	SCU	1,
ELS-CHK-23			Linear Static	VTSSC	0,
ELS-CHK-23			Linear Static	VTSCSC	0,3
ELS-CHK-23			Linear Static	VV	0,3
ELS-CHK-23			Linear Static	VLSSC	0,
ELS-CHK-23			Linear Static	VLCSC	0,
ELS-CHK-23			Linear Static	TU-DIL	0,6
ELS-CHK-23			Linear Static	TU-CON	0,
ELS-CHK-23			Linear Static	GRA-HEAT	0,
ELS-CHK-23			Linear Static	GRA-COOL	0,45
ELS-CHK-24			Linear Static	PP	1,
ELS-CHK-24	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-24			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-24			Linear Static	SCU	1,
ELS-CHK-24			Linear Static	VTSSC	0,
ELS-CHK-24			Linear Static	VTSCSC	0,3
ELS-CHK-24			Linear Static	VV	0,3
ELS-CHK-24			Linear Static	VLSSC	0,
ELS-CHK-24			Linear Static	VLCSC	0,
ELS-CHK-24			Linear Static	TU-DIL	0,
ELS-CHK-24			Linear Static	TU-CON	0,6
ELS-CHK-24			Linear Static	GRA-HEAT	0,
ELS-CHK-24			Linear Static	GRA-COOL	0,45
ELS-CHK-25	Linear Add	No	Linear Static	PP	1,
ELS-CHK-25			Linear Static	CM-TUBERIA	1,
ELS-CHK-25			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-25			Linear Static	SCU	0,
ELS-CHK-25			Linear Static	VTSSC	0,3
ELS-CHK-25			Linear Static	VTSCSC	0,
ELS-CHK-25			Linear Static	VV	0,
ELS-CHK-25			Linear Static	VLSSC	0,
ELS-CHK-25			Linear Static	VLCSC	0,
ELS-CHK-25			Linear Static	TU-DIL	0,21
ELS-CHK-25			Linear Static	TU-CON	0,
ELS-CHK-25			Linear Static	GRA-HEAT	0,6
ELS-CHK-25	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-26			Linear Static	PP	1,
ELS-CHK-26			Linear Static	CM-TUBERIA	1,
ELS-CHK-26			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-26	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-26			Linear Static	VTSSC	0,3
ELS-CHK-26			Linear Static	VTSCSC	0,
ELS-CHK-26			Linear Static	VV	0,
ELS-CHK-26			Linear Static	VLSSC	0,
ELS-CHK-26			Linear Static	VLCS	0,
ELS-CHK-26			Linear Static	TU-DIL	0,
ELS-CHK-26			Linear Static	TU-CON	0,21
ELS-CHK-26			Linear Static	GRA-HEAT	0,6
ELS-CHK-26			Linear Static	GRA-COOL	0,
ELS-CHK-27			Linear Static	PP	1,
ELS-CHK-27			Linear Static	CM-TUBERIA	1,
ELS-CHK-27			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-27			Linear Static	SCU	0,
ELS-CHK-27			Linear Static	VTSSC	0,3
ELS-CHK-27	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-27			Linear Static	VV	0,
ELS-CHK-27			Linear Static	VLSSC	0,
ELS-CHK-27			Linear Static	VLCS	0,
ELS-CHK-27			Linear Static	TU-DIL	0,21
ELS-CHK-27			Linear Static	TU-CON	0,
ELS-CHK-27			Linear Static	GRA-HEAT	0,
ELS-CHK-27			Linear Static	GRA-COOL	0,6
ELS-CHK-28			Linear Static	PP	1,
ELS-CHK-28			Linear Static	CM-TUBERIA	1,
ELS-CHK-28			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-28			Linear Static	SCU	0,
ELS-CHK-28			Linear Static	VTSSC	0,3
ELS-CHK-28			Linear Static	VTSCSC	0,
ELS-CHK-28			Linear Static	VV	0,
ELS-CHK-28	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-28			Linear Static	VLCS	0,
ELS-CHK-28			Linear Static	TU-DIL	0,
ELS-CHK-28			Linear Static	TU-CON	0,21
ELS-CHK-28			Linear Static	GRA-HEAT	0,
ELS-CHK-28			Linear Static	GRA-COOL	0,6
ELS-CHK-29			Linear Static	PP	1,
ELS-CHK-29			Linear Static	CM-TUBERIA	1,
ELS-CHK-29			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-29			Linear Static	SCU	0,
ELS-CHK-29			Linear Static	VTSSC	0,3
ELS-CHK-29			Linear Static	VTSCSC	0,
ELS-CHK-29			Linear Static	VV	0,
ELS-CHK-29			Linear Static	VLSSC	0,
ELS-CHK-29			Linear Static	VLCS	0,
ELS-CHK-29	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-29			Linear Static	TU-CON	0,
ELS-CHK-29			Linear Static	GRA-HEAT	0,45
ELS-CHK-29			Linear Static	GRA-COOL	0,
ELS-CHK-30			Linear Static	PP	1,
ELS-CHK-30			Linear Static	CM-TUBERIA	1,
ELS-CHK-30			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-30	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-30			Linear Static	VTSSC	0,3
ELS-CHK-30			Linear Static	VTSCSC	0,
ELS-CHK-30			Linear Static	VV	0,
ELS-CHK-30			Linear Static	VLSSC	0,
ELS-CHK-30			Linear Static	VLCSC	0,
ELS-CHK-30			Linear Static	TU-DIL	0,
ELS-CHK-30			Linear Static	TU-CON	0,6
ELS-CHK-30			Linear Static	GRA-HEAT	0,45
ELS-CHK-30			Linear Static	GRA-COOL	0,
ELS-CHK-31			Linear Static	PP	1,
ELS-CHK-31			Linear Static	CM-TUBERIA	1,
ELS-CHK-31	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-31			Linear Static	SCU	0,
ELS-CHK-31			Linear Static	VTSSC	0,3
ELS-CHK-31			Linear Static	VTSCSC	0,
ELS-CHK-31			Linear Static	VV	0,
ELS-CHK-31			Linear Static	VLSSC	0,
ELS-CHK-31			Linear Static	VLCSC	0,
ELS-CHK-31			Linear Static	TU-DIL	0,6
ELS-CHK-31			Linear Static	TU-CON	0,
ELS-CHK-31			Linear Static	GRA-HEAT	0,
ELS-CHK-31			Linear Static	GRA-COOL	0,45
ELS-CHK-32			Linear Static	PP	1,
ELS-CHK-32	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-32			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-32			Linear Static	SCU	0,
ELS-CHK-32			Linear Static	VTSSC	0,3
ELS-CHK-32			Linear Static	VTSCSC	0,
ELS-CHK-32			Linear Static	VV	0,
ELS-CHK-32			Linear Static	VLSSC	0,
ELS-CHK-32			Linear Static	VLCSC	0,
ELS-CHK-32			Linear Static	TU-DIL	0,
ELS-CHK-32			Linear Static	TU-CON	0,6
ELS-CHK-32			Linear Static	GRA-HEAT	0,
ELS-CHK-32			Linear Static	GRA-COOL	0,45
ELS-CHK-33	Linear Add	No	Linear Static	PP	1,
ELS-CHK-33			Linear Static	CM-TUBERIA	1,
ELS-CHK-33			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-33			Linear Static	SCU	0,
ELS-CHK-33			Linear Static	VTSSC	0,3
ELS-CHK-33			Linear Static	VTSCSC	0,
ELS-CHK-33			Linear Static	VV	0,3
ELS-CHK-33			Linear Static	VLSSC	0,
ELS-CHK-33			Linear Static	VLCSC	0,
ELS-CHK-33			Linear Static	TU-DIL	0,21
ELS-CHK-33			Linear Static	TU-CON	0,
ELS-CHK-33			Linear Static	GRA-HEAT	0,6
ELS-CHK-33	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-34			Linear Static	PP	1,
ELS-CHK-34			Linear Static	CM-TUBERIA	1,
ELS-CHK-34			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-34	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-34			Linear Static	VTSSC	0,3
ELS-CHK-34			Linear Static	VTSCSC	0,
ELS-CHK-34			Linear Static	VV	0,3
ELS-CHK-34			Linear Static	VLSSC	0,
ELS-CHK-34			Linear Static	VLCS	0,
ELS-CHK-34			Linear Static	TU-DIL	0,
ELS-CHK-34			Linear Static	TU-CON	0,21
ELS-CHK-34			Linear Static	GRA-HEAT	0,6
ELS-CHK-34			Linear Static	GRA-COOL	0,
ELS-CHK-35			Linear Static	PP	1,
ELS-CHK-35			Linear Static	CM-TUBERIA	1,
ELS-CHK-35			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-35			Linear Static	SCU	0,
ELS-CHK-35			Linear Static	VTSSC	0,3
ELS-CHK-35	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-35			Linear Static	VV	0,3
ELS-CHK-35			Linear Static	VLSSC	0,
ELS-CHK-35			Linear Static	VLCS	0,
ELS-CHK-35			Linear Static	TU-DIL	0,21
ELS-CHK-35			Linear Static	TU-CON	0,
ELS-CHK-35			Linear Static	GRA-HEAT	0,
ELS-CHK-35			Linear Static	GRA-COOL	0,6
ELS-CHK-36			Linear Static	PP	1,
ELS-CHK-36			Linear Static	CM-TUBERIA	1,
ELS-CHK-36			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-36			Linear Static	SCU	0,
ELS-CHK-36			Linear Static	VTSSC	0,3
ELS-CHK-36			Linear Static	VTSCSC	0,
ELS-CHK-36			Linear Static	VV	0,3
ELS-CHK-36	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-36			Linear Static	VLCS	0,
ELS-CHK-36			Linear Static	TU-DIL	0,
ELS-CHK-36			Linear Static	TU-CON	0,21
ELS-CHK-36			Linear Static	GRA-HEAT	0,
ELS-CHK-36			Linear Static	GRA-COOL	0,6
ELS-CHK-37			Linear Static	PP	1,
ELS-CHK-37			Linear Static	CM-TUBERIA	1,
ELS-CHK-37			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-37			Linear Static	SCU	0,
ELS-CHK-37			Linear Static	VTSSC	0,3
ELS-CHK-37			Linear Static	VTSCSC	0,
ELS-CHK-37			Linear Static	VV	0,3
ELS-CHK-37			Linear Static	VLSSC	0,
ELS-CHK-37			Linear Static	VLCS	0,
ELS-CHK-37	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-37			Linear Static	TU-CON	0,
ELS-CHK-37			Linear Static	GRA-HEAT	0,45
ELS-CHK-37			Linear Static	GRA-COOL	0,
ELS-CHK-38			Linear Static	PP	1,
ELS-CHK-38			Linear Static	CM-TUBERIA	1,
ELS-CHK-38			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-38	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-38			Linear Static	VTSSC	0,3
ELS-CHK-38			Linear Static	VTSCSC	0,
ELS-CHK-38			Linear Static	VV	0,3
ELS-CHK-38			Linear Static	VLSSC	0,
ELS-CHK-38			Linear Static	VLCSC	0,
ELS-CHK-38			Linear Static	TU-DIL	0,
ELS-CHK-38			Linear Static	TU-CON	0,6
ELS-CHK-38			Linear Static	GRA-HEAT	0,45
ELS-CHK-38			Linear Static	GRA-COOL	0,
ELS-CHK-39			Linear Static	PP	1,
ELS-CHK-39			Linear Static	CM-TUBERIA	1,
ELS-CHK-39			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-39	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-39			Linear Static	VTSSC	0,3
ELS-CHK-39			Linear Static	VTSCSC	0,
ELS-CHK-39			Linear Static	VV	0,3
ELS-CHK-39			Linear Static	VLSSC	0,
ELS-CHK-39			Linear Static	VLCSC	0,
ELS-CHK-39			Linear Static	TU-DIL	0,6
ELS-CHK-39			Linear Static	TU-CON	0,
ELS-CHK-39			Linear Static	GRA-HEAT	0,
ELS-CHK-39			Linear Static	GRA-COOL	0,45
ELS-CHK-40			Linear Static	PP	1,
ELS-CHK-40			Linear Static	CM-TUBERIA	1,
ELS-CHK-40			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-40	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-40			Linear Static	VTSSC	0,3
ELS-CHK-40			Linear Static	VTSCSC	0,
ELS-CHK-40			Linear Static	VV	0,3
ELS-CHK-40			Linear Static	VLSSC	0,
ELS-CHK-40			Linear Static	VLCSC	0,
ELS-CHK-40			Linear Static	TU-DIL	0,
ELS-CHK-40			Linear Static	TU-CON	0,6
ELS-CHK-40			Linear Static	GRA-HEAT	0,
ELS-CHK-40			Linear Static	GRA-COOL	0,45
ELS-CHK-41			Linear Static	PP	1,
ELS-CHK-41			Linear Static	CM-TUBERIA	1,
ELS-CHK-41			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-41	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-41			Linear Static	VTSSC	0,
ELS-CHK-41			Linear Static	VTSCSC	0,
ELS-CHK-41			Linear Static	VV	0,
ELS-CHK-41			Linear Static	VLSSC	0,3
ELS-CHK-41			Linear Static	VLCSC	0,
ELS-CHK-41			Linear Static	TU-DIL	0,21
ELS-CHK-41			Linear Static	TU-CON	0,
ELS-CHK-41			Linear Static	GRA-HEAT	0,6
ELS-CHK-41			Linear Static	GRA-COOL	0,
ELS-CHK-42			Linear Static	PP	1,
ELS-CHK-42			Linear Static	CM-TUBERIA	1,
ELS-CHK-42			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-42	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-42			Linear Static	VTSSC	0,
ELS-CHK-42			Linear Static	VTCSC	0,
ELS-CHK-42			Linear Static	VV	0,
ELS-CHK-42			Linear Static	VLSSC	0,3
ELS-CHK-42			Linear Static	VLCSC	0,
ELS-CHK-42			Linear Static	TU-DIL	0,
ELS-CHK-42			Linear Static	TU-CON	0,21
ELS-CHK-42			Linear Static	GRA-HEAT	0,6
ELS-CHK-42			Linear Static	GRA-COOL	0,
ELS-CHK-43			Linear Static	PP	1,
ELS-CHK-43			Linear Static	CM-TUBERIA	1,
ELS-CHK-43	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-43			Linear Static	SCU	0,
ELS-CHK-43			Linear Static	VTSSC	0,
ELS-CHK-43			Linear Static	VTCSC	0,
ELS-CHK-43			Linear Static	VV	0,
ELS-CHK-43			Linear Static	VLSSC	0,3
ELS-CHK-43			Linear Static	VLCSC	0,
ELS-CHK-43			Linear Static	TU-DIL	0,21
ELS-CHK-43			Linear Static	TU-CON	0,
ELS-CHK-43			Linear Static	GRA-HEAT	0,
ELS-CHK-43			Linear Static	GRA-COOL	0,6
ELS-CHK-44			Linear Static	PP	1,
ELS-CHK-44	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-44			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-44			Linear Static	SCU	0,
ELS-CHK-44			Linear Static	VTSSC	0,
ELS-CHK-44			Linear Static	VTCSC	0,
ELS-CHK-44			Linear Static	VV	0,
ELS-CHK-44			Linear Static	VLSSC	0,3
ELS-CHK-44			Linear Static	VLCSC	0,
ELS-CHK-44			Linear Static	TU-DIL	0,
ELS-CHK-44			Linear Static	TU-CON	0,21
ELS-CHK-44			Linear Static	GRA-HEAT	0,
ELS-CHK-44			Linear Static	GRA-COOL	0,6
ELS-CHK-45	Linear Add	No	Linear Static	PP	1,
ELS-CHK-45			Linear Static	CM-TUBERIA	1,
ELS-CHK-45			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-45			Linear Static	SCU	0,
ELS-CHK-45			Linear Static	VTSSC	0,
ELS-CHK-45			Linear Static	VTCSC	0,
ELS-CHK-45			Linear Static	VV	0,
ELS-CHK-45			Linear Static	VLSSC	0,3
ELS-CHK-45			Linear Static	VLCSC	0,
ELS-CHK-45			Linear Static	TU-DIL	0,6
ELS-CHK-45			Linear Static	TU-CON	0,
ELS-CHK-45			Linear Static	GRA-HEAT	0,45
ELS-CHK-45	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-46			Linear Static	PP	1,
ELS-CHK-46			Linear Static	CM-TUBERIA	1,
ELS-CHK-46			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-46	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-46			Linear Static	VTSSC	0,
ELS-CHK-46			Linear Static	VTSCSC	0,
ELS-CHK-46			Linear Static	VV	0,
ELS-CHK-46			Linear Static	VLSSC	0,3
ELS-CHK-46			Linear Static	VLCSC	0,
ELS-CHK-46			Linear Static	TU-DIL	0,
ELS-CHK-46			Linear Static	TU-CON	0,6
ELS-CHK-46			Linear Static	GRA-HEAT	0,45
ELS-CHK-46			Linear Static	GRA-COOL	0,
ELS-CHK-47			Linear Static	PP	1,
ELS-CHK-47			Linear Static	CM-TUBERIA	1,
ELS-CHK-47	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-47			Linear Static	SCU	0,
ELS-CHK-47			Linear Static	VTSSC	0,
ELS-CHK-47			Linear Static	VTSCSC	0,
ELS-CHK-47			Linear Static	VV	0,
ELS-CHK-47			Linear Static	VLSSC	0,3
ELS-CHK-47			Linear Static	VLCSC	0,
ELS-CHK-47			Linear Static	TU-DIL	0,6
ELS-CHK-47			Linear Static	TU-CON	0,
ELS-CHK-47			Linear Static	GRA-HEAT	0,
ELS-CHK-47			Linear Static	GRA-COOL	0,45
ELS-CHK-48			Linear Static	PP	1,
ELS-CHK-48	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-48			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-48			Linear Static	SCU	0,
ELS-CHK-48			Linear Static	VTSSC	0,
ELS-CHK-48			Linear Static	VTSCSC	0,
ELS-CHK-48			Linear Static	VV	0,
ELS-CHK-48			Linear Static	VLSSC	0,3
ELS-CHK-48			Linear Static	VLCSC	0,
ELS-CHK-48			Linear Static	TU-DIL	0,
ELS-CHK-48			Linear Static	TU-CON	0,6
ELS-CHK-48			Linear Static	GRA-HEAT	0,
ELS-CHK-48			Linear Static	GRA-COOL	0,45
ELS-CHK-49	Linear Add	No	Linear Static	PP	1,
ELS-CHK-49			Linear Static	CM-TUBERIA	1,
ELS-CHK-49			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-49			Linear Static	SCU	1,
ELS-CHK-49			Linear Static	VTSSC	0,
ELS-CHK-49			Linear Static	VTSCSC	0,
ELS-CHK-49			Linear Static	VV	0,
ELS-CHK-49			Linear Static	VLSSC	0,
ELS-CHK-49			Linear Static	VLCSC	0,3
ELS-CHK-49			Linear Static	TU-DIL	0,21
ELS-CHK-49			Linear Static	TU-CON	0,
ELS-CHK-49			Linear Static	GRA-HEAT	0,6
ELS-CHK-49	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-50			Linear Static	PP	1,
ELS-CHK-50			Linear Static	CM-TUBERIA	1,
ELS-CHK-50			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-50	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-50			Linear Static	VTSSC	0,
ELS-CHK-50			Linear Static	VTSCSC	0,
ELS-CHK-50			Linear Static	VV	0,
ELS-CHK-50			Linear Static	VLSSC	0,
ELS-CHK-50			Linear Static	VLCSC	0,3
ELS-CHK-50			Linear Static	TU-DIL	0,
ELS-CHK-50			Linear Static	TU-CON	0,21
ELS-CHK-50			Linear Static	GRA-HEAT	0,6
ELS-CHK-50			Linear Static	GRA-COOL	0,
ELS-CHK-51			Linear Static	PP	1,
ELS-CHK-51			Linear Static	CM-TUBERIA	1,
ELS-CHK-51			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-51			Linear Static	SCU	1,
ELS-CHK-51			Linear Static	VTSSC	0,
ELS-CHK-51	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-51			Linear Static	VV	0,
ELS-CHK-51			Linear Static	VLSSC	0,
ELS-CHK-51			Linear Static	VLCSC	0,3
ELS-CHK-51			Linear Static	TU-DIL	0,21
ELS-CHK-51			Linear Static	TU-CON	0,
ELS-CHK-51			Linear Static	GRA-HEAT	0,
ELS-CHK-51			Linear Static	GRA-COOL	0,6
ELS-CHK-52			Linear Static	PP	1,
ELS-CHK-52			Linear Static	CM-TUBERIA	1,
ELS-CHK-52			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-52			Linear Static	SCU	1,
ELS-CHK-52			Linear Static	VTSSC	0,
ELS-CHK-52			Linear Static	VTSCSC	0,
ELS-CHK-52			Linear Static	VV	0,
ELS-CHK-52	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-52			Linear Static	VLCSC	0,3
ELS-CHK-52			Linear Static	TU-DIL	0,
ELS-CHK-52			Linear Static	TU-CON	0,21
ELS-CHK-52			Linear Static	GRA-HEAT	0,
ELS-CHK-52			Linear Static	GRA-COOL	0,6
ELS-CHK-53			Linear Static	PP	1,
ELS-CHK-53			Linear Static	CM-TUBERIA	1,
ELS-CHK-53			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-53			Linear Static	SCU	1,
ELS-CHK-53			Linear Static	VTSSC	0,
ELS-CHK-53			Linear Static	VTSCSC	0,
ELS-CHK-53			Linear Static	VV	0,
ELS-CHK-53			Linear Static	VLSSC	0,
ELS-CHK-53			Linear Static	VLCSC	0,3
ELS-CHK-53	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-53			Linear Static	TU-CON	0,
ELS-CHK-53			Linear Static	GRA-HEAT	0,45
ELS-CHK-53			Linear Static	GRA-COOL	0,
ELS-CHK-54			Linear Static	PP	1,
ELS-CHK-54			Linear Static	CM-TUBERIA	1,
ELS-CHK-54			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-54	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-54			Linear Static	VTSSC	0,
ELS-CHK-54			Linear Static	VTSCSC	0,
ELS-CHK-54			Linear Static	VV	0,
ELS-CHK-54			Linear Static	VLSSC	0,
ELS-CHK-54			Linear Static	VLCSC	0,3
ELS-CHK-54			Linear Static	TU-DIL	0,
ELS-CHK-54			Linear Static	TU-CON	0,6
ELS-CHK-54			Linear Static	GRA-HEAT	0,45
ELS-CHK-54			Linear Static	GRA-COOL	0,
ELS-CHK-55			Linear Static	PP	1,
ELS-CHK-55			Linear Static	CM-TUBERIA	1,
ELS-CHK-55	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-55			Linear Static	SCU	1,
ELS-CHK-55			Linear Static	VTSSC	0,
ELS-CHK-55			Linear Static	VTSCSC	0,
ELS-CHK-55			Linear Static	VV	0,
ELS-CHK-55			Linear Static	VLSSC	0,
ELS-CHK-55			Linear Static	VLCSC	0,3
ELS-CHK-55			Linear Static	TU-DIL	0,6
ELS-CHK-55			Linear Static	TU-CON	0,
ELS-CHK-55			Linear Static	GRA-HEAT	0,
ELS-CHK-55			Linear Static	GRA-COOL	0,45
ELS-CHK-56			Linear Static	PP	1,
ELS-CHK-56	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-56			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-56			Linear Static	SCU	1,
ELS-CHK-56			Linear Static	VTSSC	0,
ELS-CHK-56			Linear Static	VTSCSC	0,
ELS-CHK-56			Linear Static	VV	0,
ELS-CHK-56			Linear Static	VLSSC	0,
ELS-CHK-56			Linear Static	VLCSC	0,3
ELS-CHK-56			Linear Static	TU-DIL	0,
ELS-CHK-56			Linear Static	TU-CON	0,6
ELS-CHK-56			Linear Static	GRA-HEAT	0,
ELS-CHK-56			Linear Static	GRA-COOL	0,45
ELS-CHK-57	Linear Add	No	Linear Static	PP	1,
ELS-CHK-57			Linear Static	CM-TUBERIA	1,
ELS-CHK-57			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-57			Linear Static	SCU	0,4
ELS-CHK-57			Linear Static	VTSSC	0,
ELS-CHK-57			Linear Static	VTSCSC	0,
ELS-CHK-57			Linear Static	VV	0,
ELS-CHK-57			Linear Static	VLSSC	0,
ELS-CHK-57			Linear Static	VLCSC	0,
ELS-CHK-57			Linear Static	TU-DIL	0,21
ELS-CHK-57			Linear Static	TU-CON	0,
ELS-CHK-57			Linear Static	GRA-HEAT	0,6
ELS-CHK-57	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-58			Linear Static	PP	1,
ELS-CHK-58			Linear Static	CM-TUBERIA	1,
ELS-CHK-58			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-58			Linear Static		

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-58	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-58			Linear Static	VTSSC	0,
ELS-CHK-58			Linear Static	VTSCSC	0,
ELS-CHK-58			Linear Static	VV	0,
ELS-CHK-58			Linear Static	VLSSC	0,
ELS-CHK-58			Linear Static	VLCSC	0,
ELS-CHK-58			Linear Static	TU-DIL	0,
ELS-CHK-58			Linear Static	TU-CON	0,21
ELS-CHK-58			Linear Static	GRA-HEAT	0,6
ELS-CHK-58			Linear Static	GRA-COOL	0,
ELS-CHK-59			Linear Static	PP	1,
ELS-CHK-59			Linear Static	CM-TUBERIA	1,
ELS-CHK-59			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-59			Linear Static	SCU	0,4
ELS-CHK-59			Linear Static	VTSSC	0,
ELS-CHK-59			Linear Static	VTSCSC	0,
ELS-CHK-59			Linear Static	VV	0,
ELS-CHK-59			Linear Static	VLSSC	0,
ELS-CHK-59			Linear Static	VLCSC	0,
ELS-CHK-59			Linear Static	TU-DIL	0,21
ELS-CHK-59			Linear Static	TU-CON	0,
ELS-CHK-59			Linear Static	GRA-HEAT	0,
ELS-CHK-59			Linear Static	GRA-COOL	0,6
ELS-CHK-60	Linear Add	No	Linear Static	PP	1,
ELS-CHK-60			Linear Static	CM-TUBERIA	1,
ELS-CHK-60			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-60			Linear Static	SCU	0,4
ELS-CHK-60			Linear Static	VTSSC	0,
ELS-CHK-60			Linear Static	VTSCSC	0,
ELS-CHK-60			Linear Static	VV	0,
ELS-CHK-60			Linear Static	VLSSC	0,
ELS-CHK-60			Linear Static	VLCSC	0,
ELS-CHK-60			Linear Static	TU-DIL	0,
ELS-CHK-60			Linear Static	TU-CON	0,21
ELS-CHK-60			Linear Static	GRA-HEAT	0,
ELS-CHK-60			Linear Static	GRA-COOL	0,6
ELS-CHK-61			Linear Static	PP	1,
ELS-CHK-61			Linear Static	CM-TUBERIA	1,
ELS-CHK-61			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-61			Linear Static	SCU	0,4
ELS-CHK-61			Linear Static	VTSSC	0,
ELS-CHK-61			Linear Static	VTSCSC	0,
ELS-CHK-61			Linear Static	VV	0,
ELS-CHK-61			Linear Static	VLSSC	0,
ELS-CHK-61			Linear Static	VLCSC	0,
ELS-CHK-61			Linear Static	TU-DIL	0,6
ELS-CHK-61			Linear Static	TU-CON	0,
ELS-CHK-61			Linear Static	GRA-HEAT	0,45
ELS-CHK-61			Linear Static	GRA-COOL	0,
ELS-CHK-62	Linear Add	No	Linear Static	PP	1,
ELS-CHK-62			Linear Static	CM-TUBERIA	1,
ELS-CHK-62			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-62	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-62			Linear Static	VTSSC	0,
ELS-CHK-62			Linear Static	VTSCSC	0,
ELS-CHK-62			Linear Static	VV	0,
ELS-CHK-62			Linear Static	VLSSC	0,
ELS-CHK-62			Linear Static	VLCSC	0,
ELS-CHK-62			Linear Static	TU-DIL	0,
ELS-CHK-62			Linear Static	TU-CON	0,6
ELS-CHK-62			Linear Static	GRA-HEAT	0,45
ELS-CHK-62			Linear Static	GRA-COOL	0,
ELS-CHK-63			Linear Static	PP	1,
ELS-CHK-63			Linear Static	CM-TUBERIA	1,
ELS-CHK-63			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-63	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-63			Linear Static	VTSSC	0,
ELS-CHK-63			Linear Static	VTSCSC	0,
ELS-CHK-63			Linear Static	VV	0,
ELS-CHK-63			Linear Static	VLSSC	0,
ELS-CHK-63			Linear Static	VLCSC	0,
ELS-CHK-63			Linear Static	TU-DIL	0,6
ELS-CHK-63			Linear Static	TU-CON	0,
ELS-CHK-63			Linear Static	GRA-HEAT	0,
ELS-CHK-63			Linear Static	GRA-COOL	0,45
ELS-CHK-64			Linear Static	PP	1,
ELS-CHK-64			Linear Static	CM-TUBERIA	1,
ELS-CHK-64			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-64	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-64			Linear Static	VTSSC	0,
ELS-CHK-64			Linear Static	VTSCSC	0,
ELS-CHK-64			Linear Static	VV	0,
ELS-CHK-64			Linear Static	VLSSC	0,
ELS-CHK-64			Linear Static	VLCSC	0,
ELS-CHK-64			Linear Static	TU-DIL	0,
ELS-CHK-64			Linear Static	TU-CON	0,6
ELS-CHK-64			Linear Static	GRA-HEAT	0,
ELS-CHK-64			Linear Static	GRA-COOL	0,45
ELS-CHK-65			Linear Static	PP	1,
ELS-CHK-65			Linear Static	CM-TUBERIA	1,
ELS-CHK-65			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-65	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-65			Linear Static	VTSSC	0,
ELS-CHK-65			Linear Static	VTSCSC	1,
ELS-CHK-65			Linear Static	VV	0,
ELS-CHK-65			Linear Static	VLSSC	0,
ELS-CHK-65			Linear Static	VLCSC	0,
ELS-CHK-65			Linear Static	TU-DIL	0,21
ELS-CHK-65			Linear Static	TU-CON	0,
ELS-CHK-65			Linear Static	GRA-HEAT	0,6
ELS-CHK-65			Linear Static	GRA-COOL	0,
ELS-CHK-66			Linear Static	PP	1,
ELS-CHK-66			Linear Static	CM-TUBERIA	1,
ELS-CHK-66			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-66	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-66			Linear Static	VTSSC	0,
ELS-CHK-66			Linear Static	VTSCSC	1,
ELS-CHK-66			Linear Static	VV	0,
ELS-CHK-66			Linear Static	VLSSC	0,
ELS-CHK-66			Linear Static	VLCS	0,
ELS-CHK-66			Linear Static	TU-DIL	0,
ELS-CHK-66			Linear Static	TU-CON	0,21
ELS-CHK-66			Linear Static	GRA-HEAT	0,6
ELS-CHK-66			Linear Static	GRA-COOL	0,
ELS-CHK-67			Linear Static	PP	1,
ELS-CHK-67			Linear Static	CM-TUBERIA	1,
ELS-CHK-67			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-67			Linear Static	SCU	0,4
ELS-CHK-67			Linear Static	VTSSC	0,
ELS-CHK-67	Linear Add	No	Linear Static	VTSCSC	1,
ELS-CHK-67			Linear Static	VV	0,
ELS-CHK-67			Linear Static	VLSSC	0,
ELS-CHK-67			Linear Static	VLCS	0,
ELS-CHK-67			Linear Static	TU-DIL	0,21
ELS-CHK-67			Linear Static	TU-CON	0,
ELS-CHK-67			Linear Static	GRA-HEAT	0,
ELS-CHK-67			Linear Static	GRA-COOL	0,6
ELS-CHK-68			Linear Static	PP	1,
ELS-CHK-68			Linear Static	CM-TUBERIA	1,
ELS-CHK-68			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-68			Linear Static	SCU	0,4
ELS-CHK-68			Linear Static	VTSSC	0,
ELS-CHK-68			Linear Static	VTSCSC	1,
ELS-CHK-68			Linear Static	VV	0,
ELS-CHK-68	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-68			Linear Static	VLCS	0,
ELS-CHK-68			Linear Static	TU-DIL	0,
ELS-CHK-68			Linear Static	TU-CON	0,21
ELS-CHK-68			Linear Static	GRA-HEAT	0,
ELS-CHK-68			Linear Static	GRA-COOL	0,6
ELS-CHK-69			Linear Static	PP	1,
ELS-CHK-69			Linear Static	CM-TUBERIA	1,
ELS-CHK-69			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-69			Linear Static	SCU	0,4
ELS-CHK-69			Linear Static	VTSSC	0,
ELS-CHK-69			Linear Static	VTSCSC	1,
ELS-CHK-69			Linear Static	VV	0,
ELS-CHK-69			Linear Static	VLSSC	0,
ELS-CHK-69			Linear Static	VLCS	0,
ELS-CHK-69	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-69			Linear Static	TU-CON	0,
ELS-CHK-69			Linear Static	GRA-HEAT	0,45
ELS-CHK-69			Linear Static	GRA-COOL	0,
ELS-CHK-70			Linear Static	PP	1,
ELS-CHK-70			Linear Static	CM-TUBERIA	1,
ELS-CHK-70			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-70	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-70			Linear Static	VTSSC	0,
ELS-CHK-70			Linear Static	VTSCSC	1,
ELS-CHK-70			Linear Static	VV	0,
ELS-CHK-70			Linear Static	VLSSC	0,
ELS-CHK-70			Linear Static	VLCSC	0,
ELS-CHK-70			Linear Static	TU-DIL	0,
ELS-CHK-70			Linear Static	TU-CON	0,6
ELS-CHK-70			Linear Static	GRA-HEAT	0,45
ELS-CHK-70			Linear Static	GRA-COOL	0,
ELS-CHK-71			Linear Static	PP	1,
ELS-CHK-71			Linear Static	CM-TUBERIA	1,
ELS-CHK-71			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-71	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-71			Linear Static	VTSSC	0,
ELS-CHK-71			Linear Static	VTSCSC	1,
ELS-CHK-71			Linear Static	VV	0,
ELS-CHK-71			Linear Static	VLSSC	0,
ELS-CHK-71			Linear Static	VLCSC	0,
ELS-CHK-71			Linear Static	TU-DIL	0,6
ELS-CHK-71			Linear Static	TU-CON	0,
ELS-CHK-71			Linear Static	GRA-HEAT	0,
ELS-CHK-71			Linear Static	GRA-COOL	0,45
ELS-CHK-72			Linear Static	PP	1,
ELS-CHK-72			Linear Static	CM-TUBERIA	1,
ELS-CHK-72			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-72	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-72			Linear Static	VTSSC	0,
ELS-CHK-72			Linear Static	VTSCSC	1,
ELS-CHK-72			Linear Static	VV	0,
ELS-CHK-72			Linear Static	VLSSC	0,
ELS-CHK-72			Linear Static	VLCSC	0,
ELS-CHK-72			Linear Static	TU-DIL	0,
ELS-CHK-72			Linear Static	TU-CON	0,6
ELS-CHK-72			Linear Static	GRA-HEAT	0,
ELS-CHK-72			Linear Static	GRA-COOL	0,45
ELS-CHK-73			Linear Static	PP	1,
ELS-CHK-73			Linear Static	CM-TUBERIA	1,
ELS-CHK-73			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-73	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-73			Linear Static	VTSSC	0,
ELS-CHK-73			Linear Static	VTSCSC	1,
ELS-CHK-73			Linear Static	VV	1,
ELS-CHK-73			Linear Static	VLSSC	0,
ELS-CHK-73			Linear Static	VLCSC	0,
ELS-CHK-73			Linear Static	TU-DIL	0,21
ELS-CHK-73			Linear Static	TU-CON	0,
ELS-CHK-73			Linear Static	GRA-HEAT	0,6
ELS-CHK-73			Linear Static	GRA-COOL	0,
ELS-CHK-74			Linear Static	PP	1,
ELS-CHK-74			Linear Static	CM-TUBERIA	1,
ELS-CHK-74			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-74	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-74			Linear Static	VTSSC	0,
ELS-CHK-74			Linear Static	VTCSC	1,
ELS-CHK-74			Linear Static	VV	1,
ELS-CHK-74			Linear Static	VLSSC	0,
ELS-CHK-74			Linear Static	VLCSC	0,
ELS-CHK-74			Linear Static	TU-DIL	0,
ELS-CHK-74			Linear Static	TU-CON	0,21
ELS-CHK-74			Linear Static	GRA-HEAT	0,6
ELS-CHK-74			Linear Static	GRA-COOL	0,
ELS-CHK-75			Linear Static	PP	1,
ELS-CHK-75			Linear Static	CM-TUBERIA	1,
ELS-CHK-75			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-75			Linear Static	SCU	0,4
ELS-CHK-75			Linear Static	VTSSC	0,
ELS-CHK-75	Linear Add	No	Linear Static	VTCSC	1,
ELS-CHK-75			Linear Static	VV	1,
ELS-CHK-75			Linear Static	VLSSC	0,
ELS-CHK-75			Linear Static	VLCSC	0,
ELS-CHK-75			Linear Static	TU-DIL	0,21
ELS-CHK-75			Linear Static	TU-CON	0,
ELS-CHK-75			Linear Static	GRA-HEAT	0,
ELS-CHK-75			Linear Static	GRA-COOL	0,6
ELS-CHK-76			Linear Static	PP	1,
ELS-CHK-76			Linear Static	CM-TUBERIA	1,
ELS-CHK-76			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-76			Linear Static	SCU	0,4
ELS-CHK-76			Linear Static	VTSSC	0,
ELS-CHK-76			Linear Static	VTCSC	1,
ELS-CHK-76			Linear Static	VV	1,
ELS-CHK-76	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-76			Linear Static	VLCSC	0,
ELS-CHK-76			Linear Static	TU-DIL	0,
ELS-CHK-76			Linear Static	TU-CON	0,21
ELS-CHK-76			Linear Static	GRA-HEAT	0,
ELS-CHK-76			Linear Static	GRA-COOL	0,6
ELS-CHK-77			Linear Static	PP	1,
ELS-CHK-77			Linear Static	CM-TUBERIA	1,
ELS-CHK-77			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-77			Linear Static	SCU	0,4
ELS-CHK-77			Linear Static	VTSSC	0,
ELS-CHK-77			Linear Static	VTCSC	1,
ELS-CHK-77			Linear Static	VV	1,
ELS-CHK-77			Linear Static	VLSSC	0,
ELS-CHK-77			Linear Static	VLCSC	0,
ELS-CHK-77	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-77			Linear Static	TU-CON	0,
ELS-CHK-77			Linear Static	GRA-HEAT	0,45
ELS-CHK-77			Linear Static	GRA-COOL	0,
ELS-CHK-78			Linear Static	PP	1,
ELS-CHK-78			Linear Static	CM-TUBERIA	1,
ELS-CHK-78			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-78	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-78			Linear Static	VTSSC	0,
ELS-CHK-78			Linear Static	VTSCSC	1,
ELS-CHK-78			Linear Static	VV	1,
ELS-CHK-78			Linear Static	VLSSC	0,
ELS-CHK-78			Linear Static	VLCSC	0,
ELS-CHK-78			Linear Static	TU-DIL	0,
ELS-CHK-78			Linear Static	TU-CON	0,6
ELS-CHK-78			Linear Static	GRA-HEAT	0,45
ELS-CHK-78			Linear Static	GRA-COOL	0,
ELS-CHK-79			Linear Static	PP	1,
ELS-CHK-79			Linear Static	CM-TUBERIA	1,
ELS-CHK-79	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-79			Linear Static	SCU	0,4
ELS-CHK-79			Linear Static	VTSSC	0,
ELS-CHK-79			Linear Static	VTSCSC	1,
ELS-CHK-79			Linear Static	VV	1,
ELS-CHK-79			Linear Static	VLSSC	0,
ELS-CHK-79			Linear Static	VLCSC	0,
ELS-CHK-79			Linear Static	TU-DIL	0,6
ELS-CHK-79			Linear Static	TU-CON	0,
ELS-CHK-79			Linear Static	GRA-HEAT	0,
ELS-CHK-79			Linear Static	GRA-COOL	0,45
ELS-CHK-80			Linear Static	PP	1,
ELS-CHK-80	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-80			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-80			Linear Static	SCU	0,4
ELS-CHK-80			Linear Static	VTSSC	0,
ELS-CHK-80			Linear Static	VTSCSC	1,
ELS-CHK-80			Linear Static	VV	1,
ELS-CHK-80			Linear Static	VLSSC	0,
ELS-CHK-80			Linear Static	VLCSC	0,
ELS-CHK-80			Linear Static	TU-DIL	0,
ELS-CHK-80			Linear Static	TU-CON	0,6
ELS-CHK-80			Linear Static	GRA-HEAT	0,
ELS-CHK-80			Linear Static	GRA-COOL	0,45
ELS-CHK-81	Linear Add	No	Linear Static	PP	1,
ELS-CHK-81			Linear Static	CM-TUBERIA	1,
ELS-CHK-81			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-81			Linear Static	SCU	0,
ELS-CHK-81			Linear Static	VTSSC	1,
ELS-CHK-81			Linear Static	VTSCSC	0,
ELS-CHK-81			Linear Static	VV	0,
ELS-CHK-81			Linear Static	VLSSC	0,
ELS-CHK-81			Linear Static	VLCSC	0,
ELS-CHK-81			Linear Static	TU-DIL	0,21
ELS-CHK-81			Linear Static	TU-CON	0,
ELS-CHK-81			Linear Static	GRA-HEAT	0,6
ELS-CHK-81	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-82			Linear Static	PP	1,
ELS-CHK-82			Linear Static	CM-TUBERIA	1,
ELS-CHK-82			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-82			Linear Static	SCU	0,
ELS-CHK-82			Linear Static	VTSSC	1,
ELS-CHK-82			Linear Static	VTSCSC	0,
ELS-CHK-82			Linear Static	VV	0,
ELS-CHK-82			Linear Static	VLSSC	0,
ELS-CHK-82			Linear Static	VLCS	0,
ELS-CHK-82			Linear Static	TU-DIL	0,
ELS-CHK-82			Linear Static	TU-CON	0,21
ELS-CHK-82			Linear Static	GRA-HEAT	0,6
ELS-CHK-82			Linear Static	GRA-COOL	0,
ELS-CHK-83	Linear Add	No	Linear Static	PP	1,
ELS-CHK-83			Linear Static	CM-TUBERIA	1,
ELS-CHK-83			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-83			Linear Static	SCU	0,
ELS-CHK-83			Linear Static	VTSSC	1,
ELS-CHK-83			Linear Static	VTSCSC	0,
ELS-CHK-83			Linear Static	VV	0,
ELS-CHK-83			Linear Static	VLSSC	0,
ELS-CHK-83			Linear Static	VLCS	0,
ELS-CHK-83			Linear Static	TU-DIL	0,21
ELS-CHK-83			Linear Static	TU-CON	0,
ELS-CHK-83			Linear Static	GRA-HEAT	0,
ELS-CHK-83			Linear Static	GRA-COOL	0,6
ELS-CHK-84	Linear Add	No	Linear Static	PP	1,
ELS-CHK-84			Linear Static	CM-TUBERIA	1,
ELS-CHK-84			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-84			Linear Static	SCU	0,
ELS-CHK-84			Linear Static	VTSSC	1,
ELS-CHK-84			Linear Static	VTSCSC	0,
ELS-CHK-84			Linear Static	VV	0,
ELS-CHK-84			Linear Static	VLSSC	0,
ELS-CHK-84			Linear Static	VLCS	0,
ELS-CHK-84			Linear Static	TU-DIL	0,
ELS-CHK-84			Linear Static	TU-CON	0,21
ELS-CHK-84			Linear Static	GRA-HEAT	0,
ELS-CHK-84			Linear Static	GRA-COOL	0,6
ELS-CHK-85	Linear Add	No	Linear Static	PP	1,
ELS-CHK-85			Linear Static	CM-TUBERIA	1,
ELS-CHK-85			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-85			Linear Static	SCU	0,
ELS-CHK-85			Linear Static	VTSSC	1,
ELS-CHK-85			Linear Static	VTSCSC	0,
ELS-CHK-85			Linear Static	VV	0,
ELS-CHK-85			Linear Static	VLSSC	0,
ELS-CHK-85			Linear Static	VLCS	0,
ELS-CHK-85			Linear Static	TU-DIL	0,6
ELS-CHK-85			Linear Static	TU-CON	0,
ELS-CHK-85			Linear Static	GRA-HEAT	0,45
ELS-CHK-85			Linear Static	GRA-COOL	0,
ELS-CHK-86	Linear Add	No	Linear Static	PP	1,
ELS-CHK-86			Linear Static	CM-TUBERIA	1,
ELS-CHK-86			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-86	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-86			Linear Static	VTSSC	1,
ELS-CHK-86			Linear Static	VTSCSC	0,
ELS-CHK-86			Linear Static	VV	0,
ELS-CHK-86			Linear Static	VLSSC	0,
ELS-CHK-86			Linear Static	VLCSC	0,
ELS-CHK-86			Linear Static	TU-DIL	0,
ELS-CHK-86			Linear Static	TU-CON	0,6
ELS-CHK-86			Linear Static	GRA-HEAT	0,45
ELS-CHK-86			Linear Static	GRA-COOL	0,
ELS-CHK-87			Linear Static	PP	1,
ELS-CHK-87			Linear Static	CM-TUBERIA	1,
ELS-CHK-87			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-87	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-87			Linear Static	VTSSC	1,
ELS-CHK-87			Linear Static	VTSCSC	0,
ELS-CHK-87			Linear Static	VV	0,
ELS-CHK-87			Linear Static	VLSSC	0,
ELS-CHK-87			Linear Static	VLCSC	0,
ELS-CHK-87			Linear Static	TU-DIL	0,6
ELS-CHK-87			Linear Static	TU-CON	0,
ELS-CHK-87			Linear Static	GRA-HEAT	0,
ELS-CHK-87			Linear Static	GRA-COOL	0,45
ELS-CHK-88			Linear Static	PP	1,
ELS-CHK-88			Linear Static	CM-TUBERIA	1,
ELS-CHK-88			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-88	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-88			Linear Static	VTSSC	1,
ELS-CHK-88			Linear Static	VTSCSC	0,
ELS-CHK-88			Linear Static	VV	0,
ELS-CHK-88			Linear Static	VLSSC	0,
ELS-CHK-88			Linear Static	VLCSC	0,
ELS-CHK-88			Linear Static	TU-DIL	0,
ELS-CHK-88			Linear Static	TU-CON	0,6
ELS-CHK-88			Linear Static	GRA-HEAT	0,
ELS-CHK-88			Linear Static	GRA-COOL	0,45
ELS-CHK-89			Linear Static	PP	1,
ELS-CHK-89			Linear Static	CM-TUBERIA	1,
ELS-CHK-89			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-89	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-89			Linear Static	VTSSC	1,
ELS-CHK-89			Linear Static	VTSCSC	0,
ELS-CHK-89			Linear Static	VV	1,
ELS-CHK-89			Linear Static	VLSSC	0,
ELS-CHK-89			Linear Static	VLCSC	0,
ELS-CHK-89			Linear Static	TU-DIL	0,21
ELS-CHK-89			Linear Static	TU-CON	0,
ELS-CHK-89			Linear Static	GRA-HEAT	0,6
ELS-CHK-89			Linear Static	GRA-COOL	0,
ELS-CHK-90			Linear Static	PP	1,
ELS-CHK-90			Linear Static	CM-TUBERIA	1,
ELS-CHK-90			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-90	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-90			Linear Static	VTSSC	1,
ELS-CHK-90			Linear Static	VTSCSC	0,
ELS-CHK-90			Linear Static	VV	1,
ELS-CHK-90			Linear Static	VLSSC	0,
ELS-CHK-90			Linear Static	VLCS	0,
ELS-CHK-90			Linear Static	TU-DIL	0,
ELS-CHK-90			Linear Static	TU-CON	0,21
ELS-CHK-90			Linear Static	GRA-HEAT	0,6
ELS-CHK-90			Linear Static	GRA-COOL	0,
ELS-CHK-91			Linear Static	PP	1,
ELS-CHK-91			Linear Static	CM-TUBERIA	1,
ELS-CHK-91			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-91			Linear Static	SCU	0,
ELS-CHK-91			Linear Static	VTSSC	1,
ELS-CHK-91	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-91			Linear Static	VV	1,
ELS-CHK-91			Linear Static	VLSSC	0,
ELS-CHK-91			Linear Static	VLCS	0,
ELS-CHK-91			Linear Static	TU-DIL	0,21
ELS-CHK-91			Linear Static	TU-CON	0,
ELS-CHK-91			Linear Static	GRA-HEAT	0,
ELS-CHK-91			Linear Static	GRA-COOL	0,6
ELS-CHK-92			Linear Static	PP	1,
ELS-CHK-92			Linear Static	CM-TUBERIA	1,
ELS-CHK-92			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-92			Linear Static	SCU	0,
ELS-CHK-92			Linear Static	VTSSC	1,
ELS-CHK-92			Linear Static	VTSCSC	0,
ELS-CHK-92			Linear Static	VV	1,
ELS-CHK-92	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-92			Linear Static	VLCS	0,
ELS-CHK-92			Linear Static	TU-DIL	0,
ELS-CHK-92			Linear Static	TU-CON	0,21
ELS-CHK-92			Linear Static	GRA-HEAT	0,
ELS-CHK-92			Linear Static	GRA-COOL	0,6
ELS-CHK-93			Linear Static	PP	1,
ELS-CHK-93			Linear Static	CM-TUBERIA	1,
ELS-CHK-93			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-93			Linear Static	SCU	0,
ELS-CHK-93			Linear Static	VTSSC	1,
ELS-CHK-93			Linear Static	VTSCSC	0,
ELS-CHK-93			Linear Static	VV	1,
ELS-CHK-93			Linear Static	VLSSC	0,
ELS-CHK-93			Linear Static	VLCS	0,
ELS-CHK-93	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-93			Linear Static	TU-CON	0,
ELS-CHK-93			Linear Static	GRA-HEAT	0,45
ELS-CHK-93			Linear Static	GRA-COOL	0,
ELS-CHK-94			Linear Static	PP	1,
ELS-CHK-94			Linear Static	CM-TUBERIA	1,
ELS-CHK-94			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-94	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-94			Linear Static	VTSSC	1,
ELS-CHK-94			Linear Static	VTSCSC	0,
ELS-CHK-94			Linear Static	VV	1,
ELS-CHK-94			Linear Static	VLSSC	0,
ELS-CHK-94			Linear Static	VLCSC	0,
ELS-CHK-94			Linear Static	TU-DIL	0,
ELS-CHK-94			Linear Static	TU-CON	0,6
ELS-CHK-94			Linear Static	GRA-HEAT	0,45
ELS-CHK-94			Linear Static	GRA-COOL	0,
ELS-CHK-95			Linear Static	PP	1,
ELS-CHK-95			Linear Static	CM-TUBERIA	1,
ELS-CHK-95			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-95	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-95			Linear Static	VTSSC	1,
ELS-CHK-95			Linear Static	VTSCSC	0,
ELS-CHK-95			Linear Static	VV	1,
ELS-CHK-95			Linear Static	VLSSC	0,
ELS-CHK-95			Linear Static	VLCSC	0,
ELS-CHK-95			Linear Static	TU-DIL	0,6
ELS-CHK-95			Linear Static	TU-CON	0,
ELS-CHK-95			Linear Static	GRA-HEAT	0,
ELS-CHK-95			Linear Static	GRA-COOL	0,45
ELS-CHK-96			Linear Static	PP	1,
ELS-CHK-96			Linear Static	CM-TUBERIA	1,
ELS-CHK-96			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-96	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-96			Linear Static	VTSSC	1,
ELS-CHK-96			Linear Static	VTSCSC	0,
ELS-CHK-96			Linear Static	VV	1,
ELS-CHK-96			Linear Static	VLSSC	0,
ELS-CHK-96			Linear Static	VLCSC	0,
ELS-CHK-96			Linear Static	TU-DIL	0,
ELS-CHK-96			Linear Static	TU-CON	0,6
ELS-CHK-96			Linear Static	GRA-HEAT	0,
ELS-CHK-96			Linear Static	GRA-COOL	0,45
ELS-CHK-97			Linear Static	PP	1,
ELS-CHK-97			Linear Static	CM-TUBERIA	1,
ELS-CHK-97			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-97	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-97			Linear Static	VTSSC	0,
ELS-CHK-97			Linear Static	VTSCSC	0,
ELS-CHK-97			Linear Static	VV	0,
ELS-CHK-97			Linear Static	VLSSC	1,
ELS-CHK-97			Linear Static	VLCSC	0,
ELS-CHK-97			Linear Static	TU-DIL	0,21
ELS-CHK-97			Linear Static	TU-CON	0,
ELS-CHK-97			Linear Static	GRA-HEAT	0,6
ELS-CHK-97			Linear Static	GRA-COOL	0,
ELS-CHK-98			Linear Static	PP	1,
ELS-CHK-98			Linear Static	CM-TUBERIA	1,
ELS-CHK-98			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-98	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-98			Linear Static	VTSSC	0,
ELS-CHK-98			Linear Static	VTSCSC	0,
ELS-CHK-98			Linear Static	VV	0,
ELS-CHK-98			Linear Static	VLSSC	1,
ELS-CHK-98			Linear Static	VLCSC	0,
ELS-CHK-98			Linear Static	TU-DIL	0,
ELS-CHK-98			Linear Static	TU-CON	0,21
ELS-CHK-98			Linear Static	GRA-HEAT	0,6
ELS-CHK-98			Linear Static	GRA-COOL	0,
ELS-CHK-99			Linear Static	PP	1,
ELS-CHK-99			Linear Static	CM-TUBERIA	1,
ELS-CHK-99			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-99			Linear Static	SCU	0,
ELS-CHK-99			Linear Static	VTSSC	0,
ELS-CHK-99	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-99			Linear Static	VV	0,
ELS-CHK-99			Linear Static	VLSSC	1,
ELS-CHK-99			Linear Static	VLCSC	0,
ELS-CHK-99			Linear Static	TU-DIL	0,21
ELS-CHK-99			Linear Static	TU-CON	0,
ELS-CHK-99			Linear Static	GRA-HEAT	0,
ELS-CHK-99			Linear Static	GRA-COOL	0,6
ELS-CHK-100			Linear Static	PP	1,
ELS-CHK-100			Linear Static	CM-TUBERIA	1,
ELS-CHK-100			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-100			Linear Static	SCU	0,
ELS-CHK-100			Linear Static	VTSSC	0,
ELS-CHK-100			Linear Static	VTSCSC	0,
ELS-CHK-100			Linear Static	VV	0,
ELS-CHK-100	Linear Add	No	Linear Static	VLSSC	1,
ELS-CHK-100			Linear Static	VLCSC	0,
ELS-CHK-100			Linear Static	TU-DIL	0,
ELS-CHK-100			Linear Static	TU-CON	0,21
ELS-CHK-100			Linear Static	GRA-HEAT	0,
ELS-CHK-100			Linear Static	GRA-COOL	0,6
ELS-CHK-101			Linear Static	PP	1,
ELS-CHK-101			Linear Static	CM-TUBERIA	1,
ELS-CHK-101			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-101			Linear Static	SCU	0,
ELS-CHK-101			Linear Static	VTSSC	0,
ELS-CHK-101			Linear Static	VTSCSC	0,
ELS-CHK-101			Linear Static	VV	0,
ELS-CHK-101			Linear Static	VLSSC	1,
ELS-CHK-101			Linear Static	VLCSC	0,
ELS-CHK-101	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-101			Linear Static	TU-CON	0,
ELS-CHK-101			Linear Static	GRA-HEAT	0,45
ELS-CHK-101			Linear Static	GRA-COOL	0,
ELS-CHK-102			Linear Static	PP	1,
ELS-CHK-102			Linear Static	CM-TUBERIA	1,
ELS-CHK-102			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-102	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-102			Linear Static	VTSSC	0,
ELS-CHK-102			Linear Static	VTSCSC	0,
ELS-CHK-102			Linear Static	VV	0,
ELS-CHK-102			Linear Static	VLSSC	1,
ELS-CHK-102			Linear Static	VLCSC	0,
ELS-CHK-102			Linear Static	TU-DIL	0,
ELS-CHK-102			Linear Static	TU-CON	0,6
ELS-CHK-102			Linear Static	GRA-HEAT	0,45
ELS-CHK-102			Linear Static	GRA-COOL	0,
ELS-CHK-103	Linear Add	No	Linear Static	PP	1,
ELS-CHK-103			Linear Static	CM-TUBERIA	1,
ELS-CHK-103			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-103			Linear Static	SCU	0,
ELS-CHK-103			Linear Static	VTSSC	0,
ELS-CHK-103			Linear Static	VTSCSC	0,
ELS-CHK-103			Linear Static	VV	0,
ELS-CHK-103			Linear Static	VLSSC	1,
ELS-CHK-103			Linear Static	VLCSC	0,
ELS-CHK-103			Linear Static	TU-DIL	0,6
ELS-CHK-103	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-103			Linear Static	GRA-HEAT	0,
ELS-CHK-103			Linear Static	GRA-COOL	0,45
ELS-CHK-104			Linear Static	PP	1,
ELS-CHK-104			Linear Static	CM-TUBERIA	1,
ELS-CHK-104			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-104			Linear Static	SCU	0,
ELS-CHK-104			Linear Static	VTSSC	0,
ELS-CHK-104			Linear Static	VTSCSC	0,
ELS-CHK-104			Linear Static	VV	0,
ELS-CHK-104	Linear Add	No	Linear Static	VLSSC	1,
ELS-CHK-104			Linear Static	VLCSC	0,
ELS-CHK-104			Linear Static	TU-DIL	0,
ELS-CHK-104			Linear Static	TU-CON	0,6
ELS-CHK-104			Linear Static	GRA-HEAT	0,
ELS-CHK-104			Linear Static	GRA-COOL	0,45
ELS-CHK-105			Linear Static	PP	1,
ELS-CHK-105			Linear Static	CM-TUBERIA	1,
ELS-CHK-105			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-105			Linear Static	SCU	0,4
ELS-CHK-105	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-105			Linear Static	VTSCSC	0,
ELS-CHK-105			Linear Static	VV	0,
ELS-CHK-105			Linear Static	VLSSC	0,
ELS-CHK-105			Linear Static	VLCSC	1,
ELS-CHK-105			Linear Static	TU-DIL	0,21
ELS-CHK-105			Linear Static	TU-CON	0,
ELS-CHK-105			Linear Static	GRA-HEAT	0,6
ELS-CHK-105			Linear Static	GRA-COOL	0,
ELS-CHK-106			Linear Static	PP	1,
ELS-CHK-106	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-106			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-106	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-106			Linear Static	VTSSC	0,
ELS-CHK-106			Linear Static	VTSCSC	0,
ELS-CHK-106			Linear Static	VV	0,
ELS-CHK-106			Linear Static	VLSSC	0,
ELS-CHK-106			Linear Static	VLCSC	1,
ELS-CHK-106			Linear Static	TU-DIL	0,
ELS-CHK-106			Linear Static	TU-CON	0,21
ELS-CHK-106			Linear Static	GRA-HEAT	0,6
ELS-CHK-106			Linear Static	GRA-COOL	0,
ELS-CHK-107			Linear Static	PP	1,
ELS-CHK-107			Linear Static	CM-TUBERIA	1,
ELS-CHK-107			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-107			Linear Static	SCU	0,4
ELS-CHK-107			Linear Static	VTSSC	0,
ELS-CHK-107	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-107			Linear Static	VV	0,
ELS-CHK-107			Linear Static	VLSSC	0,
ELS-CHK-107			Linear Static	VLCSC	1,
ELS-CHK-107			Linear Static	TU-DIL	0,21
ELS-CHK-107			Linear Static	TU-CON	0,
ELS-CHK-107			Linear Static	GRA-HEAT	0,
ELS-CHK-107			Linear Static	GRA-COOL	0,6
ELS-CHK-108			Linear Static	PP	1,
ELS-CHK-108			Linear Static	CM-TUBERIA	1,
ELS-CHK-108			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-108			Linear Static	SCU	0,4
ELS-CHK-108			Linear Static	VTSSC	0,
ELS-CHK-108			Linear Static	VTSCSC	0,
ELS-CHK-108			Linear Static	VV	0,
ELS-CHK-108	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-108			Linear Static	VLCSC	1,
ELS-CHK-108			Linear Static	TU-DIL	0,
ELS-CHK-108			Linear Static	TU-CON	0,21
ELS-CHK-108			Linear Static	GRA-HEAT	0,
ELS-CHK-108			Linear Static	GRA-COOL	0,6
ELS-CHK-109			Linear Static	PP	1,
ELS-CHK-109			Linear Static	CM-TUBERIA	1,
ELS-CHK-109			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-109			Linear Static	SCU	0,4
ELS-CHK-109			Linear Static	VTSSC	0,
ELS-CHK-109			Linear Static	VTSCSC	0,
ELS-CHK-109			Linear Static	VV	0,
ELS-CHK-109			Linear Static	VLSSC	0,
ELS-CHK-109			Linear Static	VLCSC	1,
ELS-CHK-109	Linear Add	No	Linear Static	TU-DIL	0,6
ELS-CHK-109			Linear Static	TU-CON	0,
ELS-CHK-109			Linear Static	GRA-HEAT	0,45
ELS-CHK-109			Linear Static	GRA-COOL	0,
ELS-CHK-110			Linear Static	PP	1,
ELS-CHK-110			Linear Static	CM-TUBERIA	1,
ELS-CHK-110			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-110	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-110			Linear Static	VTSSC	0,
ELS-CHK-110			Linear Static	VTSCSC	0,
ELS-CHK-110			Linear Static	VV	0,
ELS-CHK-110			Linear Static	VLSSC	0,
ELS-CHK-110			Linear Static	VLCSC	1,
ELS-CHK-110			Linear Static	TU-DIL	0,
ELS-CHK-110			Linear Static	TU-CON	0,6
ELS-CHK-110			Linear Static	GRA-HEAT	0,45
ELS-CHK-110			Linear Static	GRA-COOL	0,
ELS-CHK-111			Linear Static	PP	1,
ELS-CHK-111			Linear Static	CM-TUBERIA	1,
ELS-CHK-111			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-111	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-111			Linear Static	VTSSC	0,
ELS-CHK-111			Linear Static	VTSCSC	0,
ELS-CHK-111			Linear Static	VV	0,
ELS-CHK-111			Linear Static	VLSSC	0,
ELS-CHK-111			Linear Static	VLCSC	1,
ELS-CHK-111			Linear Static	TU-DIL	0,6
ELS-CHK-111			Linear Static	TU-CON	0,
ELS-CHK-111			Linear Static	GRA-HEAT	0,
ELS-CHK-111			Linear Static	GRA-COOL	0,45
ELS-CHK-112			Linear Static	PP	1,
ELS-CHK-112			Linear Static	CM-TUBERIA	1,
ELS-CHK-112			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-112	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-112			Linear Static	VTSSC	0,
ELS-CHK-112			Linear Static	VTSCSC	0,
ELS-CHK-112			Linear Static	VV	0,
ELS-CHK-112			Linear Static	VLSSC	0,
ELS-CHK-112			Linear Static	VLCSC	1,
ELS-CHK-112			Linear Static	TU-DIL	0,
ELS-CHK-112			Linear Static	TU-CON	0,6
ELS-CHK-112			Linear Static	GRA-HEAT	0,
ELS-CHK-112			Linear Static	GRA-COOL	0,45
ELS-CHK-113			Linear Static	PP	1,
ELS-CHK-113			Linear Static	CM-TUBERIA	1,
ELS-CHK-113			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-113	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-113			Linear Static	VTSSC	0,
ELS-CHK-113			Linear Static	VTSCSC	0,
ELS-CHK-113			Linear Static	VV	0,
ELS-CHK-113			Linear Static	VLSSC	0,
ELS-CHK-113			Linear Static	VLCSC	0,
ELS-CHK-113			Linear Static	TU-DIL	0,35
ELS-CHK-113			Linear Static	TU-CON	0,
ELS-CHK-113			Linear Static	GRA-HEAT	1,
ELS-CHK-113			Linear Static	GRA-COOL	0,
ELS-CHK-114			Linear Static	PP	1,
ELS-CHK-114			Linear Static	CM-TUBERIA	1,
ELS-CHK-114			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-114	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-114			Linear Static	VTSSC	0,
ELS-CHK-114			Linear Static	VTSCSC	0,
ELS-CHK-114			Linear Static	VV	0,
ELS-CHK-114			Linear Static	VLSSC	0,
ELS-CHK-114			Linear Static	VLCSC	0,
ELS-CHK-114			Linear Static	TU-DIL	0,
ELS-CHK-114			Linear Static	TU-CON	0,35
ELS-CHK-114			Linear Static	GRA-HEAT	1,
ELS-CHK-114			Linear Static	GRA-COOL	0,
ELS-CHK-115			Linear Static	PP	1,
ELS-CHK-115			Linear Static	CM-TUBERIA	1,
ELS-CHK-115			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-115			Linear Static	SCU	0,4
ELS-CHK-115			Linear Static	VTSSC	0,
ELS-CHK-115	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-115			Linear Static	VV	0,
ELS-CHK-115			Linear Static	VLSSC	0,
ELS-CHK-115			Linear Static	VLCSC	0,
ELS-CHK-115			Linear Static	TU-DIL	0,35
ELS-CHK-115			Linear Static	TU-CON	0,
ELS-CHK-115			Linear Static	GRA-HEAT	0,
ELS-CHK-115			Linear Static	GRA-COOL	1,
ELS-CHK-116			Linear Static	PP	1,
ELS-CHK-116			Linear Static	CM-TUBERIA	1,
ELS-CHK-116			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-116			Linear Static	SCU	0,4
ELS-CHK-116			Linear Static	VTSSC	0,
ELS-CHK-116			Linear Static	VTSCSC	0,
ELS-CHK-116			Linear Static	VV	0,
ELS-CHK-116	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-116			Linear Static	VLCSC	0,
ELS-CHK-116			Linear Static	TU-DIL	0,
ELS-CHK-116			Linear Static	TU-CON	0,35
ELS-CHK-116			Linear Static	GRA-HEAT	0,
ELS-CHK-116			Linear Static	GRA-COOL	1,
ELS-CHK-117			Linear Static	PP	1,
ELS-CHK-117			Linear Static	CM-TUBERIA	1,
ELS-CHK-117			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-117			Linear Static	SCU	0,4
ELS-CHK-117			Linear Static	VTSSC	0,
ELS-CHK-117			Linear Static	VTSCSC	0,
ELS-CHK-117			Linear Static	VV	0,
ELS-CHK-117			Linear Static	VLSSC	0,
ELS-CHK-117			Linear Static	VLCSC	0,
ELS-CHK-117	Linear Add	No	Linear Static	TU-DIL	1,
ELS-CHK-117			Linear Static	TU-CON	0,
ELS-CHK-117			Linear Static	GRA-HEAT	0,75
ELS-CHK-117			Linear Static	GRA-COOL	0,
ELS-CHK-118			Linear Static	PP	1,
ELS-CHK-118			Linear Static	CM-TUBERIA	1,
ELS-CHK-118			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-118	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-118			Linear Static	VTSSC	0,
ELS-CHK-118			Linear Static	VTSCSC	0,
ELS-CHK-118			Linear Static	VV	0,
ELS-CHK-118			Linear Static	VLSSC	0,
ELS-CHK-118			Linear Static	VLCSC	0,
ELS-CHK-118			Linear Static	TU-DIL	0,
ELS-CHK-118			Linear Static	TU-CON	1,
ELS-CHK-118			Linear Static	GRA-HEAT	0,75
ELS-CHK-118			Linear Static	GRA-COOL	0,
ELS-CHK-119			Linear Static	PP	1,
ELS-CHK-119			Linear Static	CM-TUBERIA	1,
ELS-CHK-119			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-119			Linear Static	SCU	0,4
ELS-CHK-119			Linear Static	VTSSC	0,
ELS-CHK-119			Linear Static	VTSCSC	0,
ELS-CHK-119			Linear Static	VV	0,
ELS-CHK-119			Linear Static	VLSSC	0,
ELS-CHK-119			Linear Static	VLCSC	0,
ELS-CHK-119			Linear Static	TU-DIL	1,
ELS-CHK-119			Linear Static	TU-CON	0,
ELS-CHK-119			Linear Static	GRA-HEAT	0,
ELS-CHK-119			Linear Static	GRA-COOL	0,75
ELS-CHK-120	Linear Add	No	Linear Static	PP	1,
ELS-CHK-120			Linear Static	CM-TUBERIA	1,
ELS-CHK-120			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-120			Linear Static	SCU	0,4
ELS-CHK-120			Linear Static	VTSSC	0,
ELS-CHK-120			Linear Static	VTSCSC	0,
ELS-CHK-120			Linear Static	VV	0,
ELS-CHK-120			Linear Static	VLSSC	0,
ELS-CHK-120			Linear Static	VLCSC	0,
ELS-CHK-120			Linear Static	TU-DIL	0,
ELS-CHK-120			Linear Static	TU-CON	1,
ELS-CHK-120			Linear Static	GRA-HEAT	0,
ELS-CHK-120			Linear Static	GRA-COOL	0,75
ELS-CHK-121			Linear Static	PP	1,
ELS-CHK-121			Linear Static	CM-TUBERIA	1,
ELS-CHK-121			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-121			Linear Static	SCU	0,4
ELS-CHK-121			Linear Static	VTSSC	0,
ELS-CHK-121			Linear Static	VTSCSC	0,3
ELS-CHK-121			Linear Static	VV	0,
ELS-CHK-121			Linear Static	VLSSC	0,
ELS-CHK-121			Linear Static	VLCSC	0,
ELS-CHK-121			Linear Static	TU-DIL	0,35
ELS-CHK-121			Linear Static	TU-CON	0,
ELS-CHK-121			Linear Static	GRA-HEAT	1,
ELS-CHK-121			Linear Static	GRA-COOL	0,
ELS-CHK-122	Linear Add	No	Linear Static	PP	1,
ELS-CHK-122			Linear Static	CM-TUBERIA	1,
ELS-CHK-122			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-122	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-122			Linear Static	VTSSC	0,
ELS-CHK-122			Linear Static	VTSCSC	0,3
ELS-CHK-122			Linear Static	VV	0,
ELS-CHK-122			Linear Static	VLSSC	0,
ELS-CHK-122			Linear Static	VLCSC	0,
ELS-CHK-122			Linear Static	TU-DIL	0,
ELS-CHK-122			Linear Static	TU-CON	0,35
ELS-CHK-122			Linear Static	GRA-HEAT	1,
ELS-CHK-122			Linear Static	GRA-COOL	0,
ELS-CHK-123			Linear Static	PP	1,
ELS-CHK-123			Linear Static	CM-TUBERIA	1,
ELS-CHK-123			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-123			Linear Static	SCU	0,4
ELS-CHK-123			Linear Static	VTSSC	0,
ELS-CHK-123	Linear Add	No	Linear Static	VTSCSC	0,3
ELS-CHK-123			Linear Static	VV	0,
ELS-CHK-123			Linear Static	VLSSC	0,
ELS-CHK-123			Linear Static	VLCSC	0,
ELS-CHK-123			Linear Static	TU-DIL	0,35
ELS-CHK-123			Linear Static	TU-CON	0,
ELS-CHK-123			Linear Static	GRA-HEAT	0,
ELS-CHK-123			Linear Static	GRA-COOL	1,
ELS-CHK-124			Linear Static	PP	1,
ELS-CHK-124			Linear Static	CM-TUBERIA	1,
ELS-CHK-124			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-124			Linear Static	SCU	0,4
ELS-CHK-124			Linear Static	VTSSC	0,
ELS-CHK-124			Linear Static	VTSCSC	0,3
ELS-CHK-124			Linear Static	VV	0,
ELS-CHK-124	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-124			Linear Static	VLCSC	0,
ELS-CHK-124			Linear Static	TU-DIL	0,
ELS-CHK-124			Linear Static	TU-CON	0,35
ELS-CHK-124			Linear Static	GRA-HEAT	0,
ELS-CHK-124			Linear Static	GRA-COOL	1,
ELS-CHK-125			Linear Static	PP	1,
ELS-CHK-125			Linear Static	CM-TUBERIA	1,
ELS-CHK-125			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-125			Linear Static	SCU	0,4
ELS-CHK-125			Linear Static	VTSSC	0,
ELS-CHK-125			Linear Static	VTSCSC	0,3
ELS-CHK-125			Linear Static	VV	0,
ELS-CHK-125			Linear Static	VLSSC	0,
ELS-CHK-125			Linear Static	VLCSC	0,
ELS-CHK-125	Linear Add	No	Linear Static	TU-DIL	1,
ELS-CHK-125			Linear Static	TU-CON	0,
ELS-CHK-125			Linear Static	GRA-HEAT	0,75
ELS-CHK-125			Linear Static	GRA-COOL	0,
ELS-CHK-126			Linear Static	PP	1,
ELS-CHK-126			Linear Static	CM-TUBERIA	1,
ELS-CHK-126			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-126	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-126			Linear Static	VTSSC	0,
ELS-CHK-126			Linear Static	VTSCSC	0,3
ELS-CHK-126			Linear Static	VV	0,
ELS-CHK-126			Linear Static	VLSSC	0,
ELS-CHK-126			Linear Static	VLCSC	0,
ELS-CHK-126			Linear Static	TU-DIL	0,
ELS-CHK-126			Linear Static	TU-CON	1,
ELS-CHK-126			Linear Static	GRA-HEAT	0,75
ELS-CHK-126			Linear Static	GRA-COOL	0,
ELS-CHK-127			Linear Static	PP	1,
ELS-CHK-127			Linear Static	CM-TUBERIA	1,
ELS-CHK-127			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-127			Linear Static	SCU	0,4
ELS-CHK-127			Linear Static	VTSSC	0,
ELS-CHK-127			Linear Static	VTSCSC	0,3
ELS-CHK-127	Linear Add	No	Linear Static	VV	0,
ELS-CHK-127			Linear Static	VLSSC	0,
ELS-CHK-127			Linear Static	VLCSC	0,
ELS-CHK-127			Linear Static	TU-DIL	1,
ELS-CHK-127			Linear Static	TU-CON	0,
ELS-CHK-127			Linear Static	GRA-HEAT	0,
ELS-CHK-127			Linear Static	GRA-COOL	0,75
ELS-CHK-128			Linear Static	PP	1,
ELS-CHK-128			Linear Static	CM-TUBERIA	1,
ELS-CHK-128			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-128			Linear Static	SCU	0,4
ELS-CHK-128			Linear Static	VTSSC	0,
ELS-CHK-128			Linear Static	VTSCSC	0,3
ELS-CHK-128			Linear Static	VV	0,
ELS-CHK-128			Linear Static	VLSSC	0,
ELS-CHK-128			Linear Static	VLCSC	0,
ELS-CHK-128			Linear Static	TU-DIL	0,
ELS-CHK-128			Linear Static	TU-CON	1,
ELS-CHK-128			Linear Static	GRA-HEAT	0,
ELS-CHK-128			Linear Static	GRA-COOL	0,75
ELS-CHK-129	Linear Add	No	Linear Static	PP	1,
ELS-CHK-129			Linear Static	CM-TUBERIA	1,
ELS-CHK-129			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-129			Linear Static	SCU	0,4
ELS-CHK-129			Linear Static	VTSSC	0,
ELS-CHK-129			Linear Static	VTSCSC	0,3
ELS-CHK-129			Linear Static	VV	0,3
ELS-CHK-129			Linear Static	VLSSC	0,
ELS-CHK-129			Linear Static	VLCSC	0,
ELS-CHK-129			Linear Static	TU-DIL	0,35
ELS-CHK-129			Linear Static	TU-CON	0,
ELS-CHK-129			Linear Static	GRA-HEAT	1,
ELS-CHK-129			Linear Static	GRA-COOL	0,
ELS-CHK-130			Linear Static	PP	1,
ELS-CHK-130			Linear Static	CM-TUBERIA	1,
ELS-CHK-130			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-130	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-130			Linear Static	VTSSC	0,
ELS-CHK-130			Linear Static	VTSCSC	0,3
ELS-CHK-130			Linear Static	VV	0,3
ELS-CHK-130			Linear Static	VLSSC	0,
ELS-CHK-130			Linear Static	VLCSC	0,
ELS-CHK-130			Linear Static	TU-DIL	0,
ELS-CHK-130			Linear Static	TU-CON	0,35
ELS-CHK-130			Linear Static	GRA-HEAT	1,
ELS-CHK-130			Linear Static	GRA-COOL	0,
ELS-CHK-131			Linear Static	PP	1,
ELS-CHK-131			Linear Static	CM-TUBERIA	1,
ELS-CHK-131			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-131			Linear Static	SCU	0,4
ELS-CHK-131			Linear Static	VTSSC	0,
ELS-CHK-131	Linear Add	No	Linear Static	VTSCSC	0,3
ELS-CHK-131			Linear Static	VV	0,3
ELS-CHK-131			Linear Static	VLSSC	0,
ELS-CHK-131			Linear Static	VLCSC	0,
ELS-CHK-131			Linear Static	TU-DIL	0,35
ELS-CHK-131			Linear Static	TU-CON	0,
ELS-CHK-131			Linear Static	GRA-HEAT	0,
ELS-CHK-131			Linear Static	GRA-COOL	1,
ELS-CHK-132			Linear Static	PP	1,
ELS-CHK-132			Linear Static	CM-TUBERIA	1,
ELS-CHK-132			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-132			Linear Static	SCU	0,4
ELS-CHK-132			Linear Static	VTSSC	0,
ELS-CHK-132			Linear Static	VTSCSC	0,3
ELS-CHK-132			Linear Static	VV	0,3
ELS-CHK-132	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-132			Linear Static	VLCSC	0,
ELS-CHK-132			Linear Static	TU-DIL	0,
ELS-CHK-132			Linear Static	TU-CON	0,35
ELS-CHK-132			Linear Static	GRA-HEAT	0,
ELS-CHK-132			Linear Static	GRA-COOL	1,
ELS-CHK-133			Linear Static	PP	1,
ELS-CHK-133			Linear Static	CM-TUBERIA	1,
ELS-CHK-133			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-133			Linear Static	SCU	0,4
ELS-CHK-133			Linear Static	VTSSC	0,
ELS-CHK-133			Linear Static	VTSCSC	0,3
ELS-CHK-133			Linear Static	VV	0,3
ELS-CHK-133			Linear Static	VLSSC	0,
ELS-CHK-133			Linear Static	VLCSC	0,
ELS-CHK-133	Linear Add	No	Linear Static	TU-DIL	1,
ELS-CHK-133			Linear Static	TU-CON	0,
ELS-CHK-133			Linear Static	GRA-HEAT	0,75
ELS-CHK-133			Linear Static	GRA-COOL	0,
ELS-CHK-134			Linear Static	PP	1,
ELS-CHK-134	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-134			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-134	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-134			Linear Static	VTSSC	0,
ELS-CHK-134			Linear Static	VTSCSC	0,3
ELS-CHK-134			Linear Static	VV	0,3
ELS-CHK-134			Linear Static	VLSSC	0,
ELS-CHK-134			Linear Static	VLCSC	0,
ELS-CHK-134			Linear Static	TU-DIL	0,
ELS-CHK-134			Linear Static	TU-CON	1,
ELS-CHK-134			Linear Static	GRA-HEAT	0,75
ELS-CHK-134			Linear Static	GRA-COOL	0,
ELS-CHK-135			Linear Static	PP	1,
ELS-CHK-135			Linear Static	CM-TUBERIA	1,
ELS-CHK-135			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-135			Linear Static	SCU	0,4
ELS-CHK-135			Linear Static	VTSSC	0,
ELS-CHK-135			Linear Static	VTSCSC	0,3
ELS-CHK-135			Linear Static	VV	0,3
ELS-CHK-135			Linear Static	VLSSC	0,
ELS-CHK-135			Linear Static	VLCSC	0,
ELS-CHK-135			Linear Static	TU-DIL	1,
ELS-CHK-135			Linear Static	TU-CON	0,
ELS-CHK-135			Linear Static	GRA-HEAT	0,
ELS-CHK-135			Linear Static	GRA-COOL	0,75
ELS-CHK-136	Linear Add	No	Linear Static	PP	1,
ELS-CHK-136			Linear Static	CM-TUBERIA	1,
ELS-CHK-136			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-136			Linear Static	SCU	0,4
ELS-CHK-136			Linear Static	VTSSC	0,
ELS-CHK-136			Linear Static	VTSCSC	0,3
ELS-CHK-136			Linear Static	VV	0,3
ELS-CHK-136			Linear Static	VLSSC	0,
ELS-CHK-136			Linear Static	VLCSC	0,
ELS-CHK-136			Linear Static	TU-DIL	0,
ELS-CHK-136			Linear Static	TU-CON	1,
ELS-CHK-136			Linear Static	GRA-HEAT	0,
ELS-CHK-136			Linear Static	GRA-COOL	0,75
ELS-CHK-137			Linear Static	PP	1,
ELS-CHK-137			Linear Static	CM-TUBERIA	1,
ELS-CHK-137			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-137			Linear Static	SCU	0,
ELS-CHK-137			Linear Static	VTSSC	0,3
ELS-CHK-137			Linear Static	VTSCSC	0,
ELS-CHK-137			Linear Static	VV	0,
ELS-CHK-137			Linear Static	VLSSC	0,
ELS-CHK-137			Linear Static	VLCSC	0,
ELS-CHK-137			Linear Static	TU-DIL	0,35
ELS-CHK-137			Linear Static	TU-CON	0,
ELS-CHK-137			Linear Static	GRA-HEAT	1,
ELS-CHK-137			Linear Static	GRA-COOL	0,
ELS-CHK-138	Linear Add	No	Linear Static	PP	1,
ELS-CHK-138			Linear Static	CM-TUBERIA	1,
ELS-CHK-138			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-138	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-138			Linear Static	VTSSC	0,3
ELS-CHK-138			Linear Static	VTSCSC	0,
ELS-CHK-138			Linear Static	VV	0,
ELS-CHK-138			Linear Static	VLSSC	0,
ELS-CHK-138			Linear Static	VLCSC	0,
ELS-CHK-138			Linear Static	TU-DIL	0,
ELS-CHK-138			Linear Static	TU-CON	0,35
ELS-CHK-138			Linear Static	GRA-HEAT	1,
ELS-CHK-138			Linear Static	GRA-COOL	0,
ELS-CHK-139			Linear Static	PP	1,
ELS-CHK-139			Linear Static	CM-TUBERIA	1,
ELS-CHK-139			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-139			Linear Static	SCU	0,
ELS-CHK-139			Linear Static	VTSSC	0,3
ELS-CHK-139	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-139			Linear Static	VV	0,
ELS-CHK-139			Linear Static	VLSSC	0,
ELS-CHK-139			Linear Static	VLCSC	0,
ELS-CHK-139			Linear Static	TU-DIL	0,35
ELS-CHK-139			Linear Static	TU-CON	0,
ELS-CHK-139			Linear Static	GRA-HEAT	0,
ELS-CHK-139			Linear Static	GRA-COOL	1,
ELS-CHK-140			Linear Static	PP	1,
ELS-CHK-140			Linear Static	CM-TUBERIA	1,
ELS-CHK-140			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-140			Linear Static	SCU	0,
ELS-CHK-140			Linear Static	VTSSC	0,3
ELS-CHK-140			Linear Static	VTSCSC	0,
ELS-CHK-140			Linear Static	VV	0,
ELS-CHK-140	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-140			Linear Static	VLCSC	0,
ELS-CHK-140			Linear Static	TU-DIL	0,
ELS-CHK-140			Linear Static	TU-CON	0,35
ELS-CHK-140			Linear Static	GRA-HEAT	0,
ELS-CHK-140			Linear Static	GRA-COOL	1,
ELS-CHK-141			Linear Static	PP	1,
ELS-CHK-141			Linear Static	CM-TUBERIA	1,
ELS-CHK-141			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-141			Linear Static	SCU	0,
ELS-CHK-141			Linear Static	VTSSC	0,3
ELS-CHK-141			Linear Static	VTSCSC	0,
ELS-CHK-141			Linear Static	VV	0,
ELS-CHK-141			Linear Static	VLSSC	0,
ELS-CHK-141			Linear Static	VLCSC	0,
ELS-CHK-141	Linear Add	No	Linear Static	TU-DIL	1,
ELS-CHK-141			Linear Static	TU-CON	0,
ELS-CHK-141			Linear Static	GRA-HEAT	0,75
ELS-CHK-141			Linear Static	GRA-COOL	0,
ELS-CHK-142			Linear Static	PP	1,
ELS-CHK-142			Linear Static	CM-TUBERIA	1,
ELS-CHK-142			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-142	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-142			Linear Static	VTSSC	0,3
ELS-CHK-142			Linear Static	VTSCSC	0,
ELS-CHK-142			Linear Static	VV	0,
ELS-CHK-142			Linear Static	VLSSC	0,
ELS-CHK-142			Linear Static	VLCSC	0,
ELS-CHK-142			Linear Static	TU-DIL	0,
ELS-CHK-142			Linear Static	TU-CON	1,
ELS-CHK-142			Linear Static	GRA-HEAT	0,75
ELS-CHK-142			Linear Static	GRA-COOL	0,
ELS-CHK-143			Linear Static	PP	1,
ELS-CHK-143			Linear Static	CM-TUBERIA	1,
ELS-CHK-143	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-143			Linear Static	SCU	0,
ELS-CHK-143			Linear Static	VTSSC	0,3
ELS-CHK-143			Linear Static	VTSCSC	0,
ELS-CHK-143			Linear Static	VV	0,
ELS-CHK-143			Linear Static	VLSSC	0,
ELS-CHK-143			Linear Static	VLCSC	0,
ELS-CHK-143			Linear Static	TU-DIL	1,
ELS-CHK-143			Linear Static	TU-CON	0,
ELS-CHK-143			Linear Static	GRA-HEAT	0,
ELS-CHK-143			Linear Static	GRA-COOL	0,75
ELS-CHK-144			Linear Static	PP	1,
ELS-CHK-144	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CHK-144			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-144			Linear Static	SCU	0,
ELS-CHK-144			Linear Static	VTSSC	0,3
ELS-CHK-144			Linear Static	VTSCSC	0,
ELS-CHK-144			Linear Static	VV	0,
ELS-CHK-144			Linear Static	VLSSC	0,
ELS-CHK-144			Linear Static	VLCSC	0,
ELS-CHK-144			Linear Static	TU-DIL	0,
ELS-CHK-144			Linear Static	TU-CON	1,
ELS-CHK-144			Linear Static	GRA-HEAT	0,
ELS-CHK-144			Linear Static	GRA-COOL	0,75
ELS-CHK-145	Linear Add	No	Linear Static	PP	1,
ELS-CHK-145			Linear Static	CM-TUBERIA	1,
ELS-CHK-145			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-145			Linear Static	SCU	0,
ELS-CHK-145			Linear Static	VTSSC	0,3
ELS-CHK-145			Linear Static	VTSCSC	0,
ELS-CHK-145			Linear Static	VV	0,3
ELS-CHK-145			Linear Static	VLSSC	0,
ELS-CHK-145			Linear Static	VLCSC	0,
ELS-CHK-145			Linear Static	TU-DIL	0,35
ELS-CHK-145			Linear Static	TU-CON	0,
ELS-CHK-145			Linear Static	GRA-HEAT	1,
ELS-CHK-145	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-146			Linear Static	PP	1,
ELS-CHK-146			Linear Static	CM-TUBERIA	1,
ELS-CHK-146			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-146	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-146			Linear Static	VTSSC	0,3
ELS-CHK-146			Linear Static	VTCSC	0,
ELS-CHK-146			Linear Static	VV	0,3
ELS-CHK-146			Linear Static	VLSSC	0,
ELS-CHK-146			Linear Static	VLCSC	0,
ELS-CHK-146			Linear Static	TU-DIL	0,
ELS-CHK-146			Linear Static	TU-CON	0,35
ELS-CHK-146			Linear Static	GRA-HEAT	1,
ELS-CHK-146			Linear Static	GRA-COOL	0,
ELS-CHK-147			Linear Static	PP	1,
ELS-CHK-147			Linear Static	CM-TUBERIA	1,
ELS-CHK-147			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-147			Linear Static	SCU	0,
ELS-CHK-147			Linear Static	VTSSC	0,3
ELS-CHK-147	Linear Add	No	Linear Static	VTCSC	0,
ELS-CHK-147			Linear Static	VV	0,3
ELS-CHK-147			Linear Static	VLSSC	0,
ELS-CHK-147			Linear Static	VLCSC	0,
ELS-CHK-147			Linear Static	TU-DIL	0,35
ELS-CHK-147			Linear Static	TU-CON	0,
ELS-CHK-147			Linear Static	GRA-HEAT	0,
ELS-CHK-147			Linear Static	GRA-COOL	1,
ELS-CHK-148			Linear Static	PP	1,
ELS-CHK-148			Linear Static	CM-TUBERIA	1,
ELS-CHK-148			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-148			Linear Static	SCU	0,
ELS-CHK-148			Linear Static	VTSSC	0,3
ELS-CHK-148			Linear Static	VTCSC	0,
ELS-CHK-148			Linear Static	VV	0,3
ELS-CHK-148	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-148			Linear Static	VLCSC	0,
ELS-CHK-148			Linear Static	TU-DIL	0,
ELS-CHK-148			Linear Static	TU-CON	0,35
ELS-CHK-148			Linear Static	GRA-HEAT	0,
ELS-CHK-148			Linear Static	GRA-COOL	1,
ELS-CHK-149			Linear Static	PP	1,
ELS-CHK-149			Linear Static	CM-TUBERIA	1,
ELS-CHK-149			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-149			Linear Static	SCU	0,
ELS-CHK-149			Linear Static	VTSSC	0,3
ELS-CHK-149			Linear Static	VTCSC	0,
ELS-CHK-149			Linear Static	VV	0,3
ELS-CHK-149			Linear Static	VLSSC	0,
ELS-CHK-149			Linear Static	VLCSC	0,
ELS-CHK-149	Linear Add	No	Linear Static	TU-DIL	1,
ELS-CHK-149			Linear Static	TU-CON	0,
ELS-CHK-149			Linear Static	GRA-HEAT	0,75
ELS-CHK-149			Linear Static	GRA-COOL	0,
ELS-CHK-150			Linear Static	PP	1,
ELS-CHK-150			Linear Static	CM-TUBERIA	1,
ELS-CHK-150			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-150	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-150			Linear Static	VTSSC	0,3
ELS-CHK-150			Linear Static	VTSCSC	0,
ELS-CHK-150			Linear Static	VV	0,3
ELS-CHK-150			Linear Static	VLSSC	0,
ELS-CHK-150			Linear Static	VLCSC	0,
ELS-CHK-150			Linear Static	TU-DIL	0,
ELS-CHK-150			Linear Static	TU-CON	1,
ELS-CHK-150			Linear Static	GRA-HEAT	0,75
ELS-CHK-150			Linear Static	GRA-COOL	0,
ELS-CHK-151			Linear Static	PP	1,
ELS-CHK-151			Linear Static	CM-TUBERIA	1,
ELS-CHK-151			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-151			Linear Static	SCU	0,
ELS-CHK-151			Linear Static	VTSSC	0,3
ELS-CHK-151			Linear Static	VTSCSC	0,
ELS-CHK-151			Linear Static	VV	0,3
ELS-CHK-151			Linear Static	VLSSC	0,
ELS-CHK-151			Linear Static	VLCSC	0,
ELS-CHK-151			Linear Static	TU-DIL	1,
ELS-CHK-151			Linear Static	TU-CON	0,
ELS-CHK-151			Linear Static	GRA-HEAT	0,
ELS-CHK-151			Linear Static	GRA-COOL	0,75
ELS-CHK-152	Linear Add	No	Linear Static	PP	1,
ELS-CHK-152			Linear Static	CM-TUBERIA	1,
ELS-CHK-152			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-152			Linear Static	SCU	0,
ELS-CHK-152			Linear Static	VTSSC	0,3
ELS-CHK-152			Linear Static	VTSCSC	0,
ELS-CHK-152			Linear Static	VV	0,3
ELS-CHK-152			Linear Static	VLSSC	0,
ELS-CHK-152			Linear Static	VLCSC	0,
ELS-CHK-152			Linear Static	TU-DIL	0,
ELS-CHK-152			Linear Static	TU-CON	1,
ELS-CHK-152			Linear Static	GRA-HEAT	0,
ELS-CHK-152			Linear Static	GRA-COOL	0,75
ELS-CHK-153			Linear Static	PP	1,
ELS-CHK-153			Linear Static	CM-TUBERIA	1,
ELS-CHK-153			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-153			Linear Static	SCU	0,
ELS-CHK-153			Linear Static	VTSSC	0,
ELS-CHK-153			Linear Static	VTSCSC	0,
ELS-CHK-153			Linear Static	VV	0,
ELS-CHK-153			Linear Static	VLSSC	0,3
ELS-CHK-153			Linear Static	VLCSC	0,
ELS-CHK-153			Linear Static	TU-DIL	0,35
ELS-CHK-153			Linear Static	TU-CON	0,
ELS-CHK-153			Linear Static	GRA-HEAT	1,
ELS-CHK-153			Linear Static	GRA-COOL	0,
ELS-CHK-154	Linear Add	No	Linear Static	PP	1,
ELS-CHK-154			Linear Static	CM-TUBERIA	1,
ELS-CHK-154			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-154	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-154			Linear Static	VTSSC	0,
ELS-CHK-154			Linear Static	VTSCSC	0,
ELS-CHK-154			Linear Static	VV	0,
ELS-CHK-154			Linear Static	VLSSC	0,3
ELS-CHK-154			Linear Static	VLCS	0,
ELS-CHK-154			Linear Static	TU-DIL	0,
ELS-CHK-154			Linear Static	TU-CON	0,35
ELS-CHK-154			Linear Static	GRA-HEAT	1,
ELS-CHK-154			Linear Static	GRA-COOL	0,
ELS-CHK-155			Linear Static	PP	1,
ELS-CHK-155			Linear Static	CM-TUBERIA	1,
ELS-CHK-155			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-155			Linear Static	SCU	0,
ELS-CHK-155			Linear Static	VTSSC	0,
ELS-CHK-155	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-155			Linear Static	VV	0,
ELS-CHK-155			Linear Static	VLSSC	0,3
ELS-CHK-155			Linear Static	VLCS	0,
ELS-CHK-155			Linear Static	TU-DIL	0,35
ELS-CHK-155			Linear Static	TU-CON	0,
ELS-CHK-155			Linear Static	GRA-HEAT	0,
ELS-CHK-155			Linear Static	GRA-COOL	1,
ELS-CHK-156			Linear Static	PP	1,
ELS-CHK-156			Linear Static	CM-TUBERIA	1,
ELS-CHK-156			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-156			Linear Static	SCU	0,
ELS-CHK-156			Linear Static	VTSSC	0,
ELS-CHK-156			Linear Static	VTSCSC	0,
ELS-CHK-156			Linear Static	VV	0,
ELS-CHK-156	Linear Add	No	Linear Static	VLSSC	0,3
ELS-CHK-156			Linear Static	VLCS	0,
ELS-CHK-156			Linear Static	TU-DIL	0,
ELS-CHK-156			Linear Static	TU-CON	0,35
ELS-CHK-156			Linear Static	GRA-HEAT	0,
ELS-CHK-156			Linear Static	GRA-COOL	1,
ELS-CHK-157			Linear Static	PP	1,
ELS-CHK-157			Linear Static	CM-TUBERIA	1,
ELS-CHK-157			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-157			Linear Static	SCU	0,
ELS-CHK-157			Linear Static	VTSSC	0,
ELS-CHK-157			Linear Static	VTSCSC	0,
ELS-CHK-157			Linear Static	VV	0,
ELS-CHK-157			Linear Static	VLSSC	0,3
ELS-CHK-157			Linear Static	VLCS	0,
ELS-CHK-157	Linear Add	No	Linear Static	TU-DIL	1,
ELS-CHK-157			Linear Static	TU-CON	0,
ELS-CHK-157			Linear Static	GRA-HEAT	0,75
ELS-CHK-157			Linear Static	GRA-COOL	0,
ELS-CHK-158			Linear Static	PP	1,
ELS-CHK-158			Linear Static	CM-TUBERIA	1,
ELS-CHK-158			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-158	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-158			Linear Static	VTSSC	0,
ELS-CHK-158			Linear Static	VTSCSC	0,
ELS-CHK-158			Linear Static	VV	0,
ELS-CHK-158			Linear Static	VLSSC	0,3
ELS-CHK-158			Linear Static	VLCSC	0,
ELS-CHK-158			Linear Static	TU-DIL	0,
ELS-CHK-158			Linear Static	TU-CON	1,
ELS-CHK-158			Linear Static	GRA-HEAT	0,75
ELS-CHK-158			Linear Static	GRA-COOL	0,
ELS-CHK-159			Linear Static	PP	1,
ELS-CHK-159			Linear Static	CM-TUBERIA	1,
ELS-CHK-159	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-159			Linear Static	SCU	0,
ELS-CHK-159			Linear Static	VTSSC	0,
ELS-CHK-159			Linear Static	VTSCSC	0,
ELS-CHK-159			Linear Static	VV	0,
ELS-CHK-159			Linear Static	VLSSC	0,3
ELS-CHK-159			Linear Static	VLCSC	0,
ELS-CHK-159			Linear Static	TU-DIL	1,
ELS-CHK-159			Linear Static	TU-CON	0,
ELS-CHK-159			Linear Static	GRA-HEAT	0,
ELS-CHK-159			Linear Static	GRA-COOL	0,75
ELS-CHK-160	Linear Add	No	Linear Static	PP	1,
ELS-CHK-160			Linear Static	CM-TUBERIA	1,
ELS-CHK-160			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-160			Linear Static	SCU	0,
ELS-CHK-160			Linear Static	VTSSC	0,
ELS-CHK-160			Linear Static	VTSCSC	0,
ELS-CHK-160			Linear Static	VV	0,
ELS-CHK-160			Linear Static	VLSSC	0,3
ELS-CHK-160			Linear Static	VLCSC	0,
ELS-CHK-160			Linear Static	TU-DIL	0,
ELS-CHK-160			Linear Static	TU-CON	1,
ELS-CHK-160			Linear Static	GRA-HEAT	0,
ELS-CHK-160	Linear Add	No	Linear Static	GRA-COOL	0,75
ELS-CHK-161			Linear Static	PP	1,
ELS-CHK-161			Linear Static	CM-TUBERIA	1,
ELS-CHK-161			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-161			Linear Static	SCU	0,4
ELS-CHK-161			Linear Static	VTSSC	0,
ELS-CHK-161			Linear Static	VTSCSC	0,
ELS-CHK-161			Linear Static	VV	0,
ELS-CHK-161			Linear Static	VLSSC	0,
ELS-CHK-161			Linear Static	VLCSC	0,3
ELS-CHK-161			Linear Static	TU-DIL	0,35
ELS-CHK-161			Linear Static	TU-CON	0,
ELS-CHK-161	Linear Add	No	Linear Static	GRA-HEAT	1,
ELS-CHK-161			Linear Static	GRA-COOL	0,
ELS-CHK-162			Linear Static	PP	1,
ELS-CHK-162			Linear Static	CM-TUBERIA	1,
ELS-CHK-162			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-162	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-162			Linear Static	VTSSC	0,
ELS-CHK-162			Linear Static	VTSCSC	0,
ELS-CHK-162			Linear Static	VV	0,
ELS-CHK-162			Linear Static	VLSSC	0,
ELS-CHK-162			Linear Static	VLCSC	0,3
ELS-CHK-162			Linear Static	TU-DIL	0,
ELS-CHK-162			Linear Static	TU-CON	0,35
ELS-CHK-162			Linear Static	GRA-HEAT	1,
ELS-CHK-162			Linear Static	GRA-COOL	0,
ELS-CHK-163			Linear Static	PP	1,
ELS-CHK-163			Linear Static	CM-TUBERIA	1,
ELS-CHK-163			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-163			Linear Static	SCU	0,4
ELS-CHK-163			Linear Static	VTSSC	0,
ELS-CHK-163	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-163			Linear Static	VV	0,
ELS-CHK-163			Linear Static	VLSSC	0,
ELS-CHK-163			Linear Static	VLCSC	0,3
ELS-CHK-163			Linear Static	TU-DIL	0,35
ELS-CHK-163			Linear Static	TU-CON	0,
ELS-CHK-163			Linear Static	GRA-HEAT	0,
ELS-CHK-163			Linear Static	GRA-COOL	1,
ELS-CHK-164			Linear Static	PP	1,
ELS-CHK-164			Linear Static	CM-TUBERIA	1,
ELS-CHK-164			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-164			Linear Static	SCU	0,4
ELS-CHK-164			Linear Static	VTSSC	0,
ELS-CHK-164			Linear Static	VTSCSC	0,
ELS-CHK-164			Linear Static	VV	0,
ELS-CHK-164	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-164			Linear Static	VLCSC	0,3
ELS-CHK-164			Linear Static	TU-DIL	0,
ELS-CHK-164			Linear Static	TU-CON	0,35
ELS-CHK-164			Linear Static	GRA-HEAT	0,
ELS-CHK-164			Linear Static	GRA-COOL	1,
ELS-CHK-165			Linear Static	PP	1,
ELS-CHK-165			Linear Static	CM-TUBERIA	1,
ELS-CHK-165			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-165			Linear Static	SCU	0,4
ELS-CHK-165			Linear Static	VTSSC	0,
ELS-CHK-165			Linear Static	VTSCSC	0,
ELS-CHK-165			Linear Static	VV	0,
ELS-CHK-165			Linear Static	VLSSC	0,
ELS-CHK-165			Linear Static	VLCSC	0,3
ELS-CHK-165	Linear Add	No	Linear Static	TU-DIL	1,
ELS-CHK-165			Linear Static	TU-CON	0,
ELS-CHK-165			Linear Static	GRA-HEAT	0,75
ELS-CHK-165			Linear Static	GRA-COOL	0,
ELS-CHK-166			Linear Static	PP	1,
ELS-CHK-166			Linear Static	CM-TUBERIA	1,
ELS-CHK-166			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-166	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-166			Linear Static	VTSSC	0,
ELS-CHK-166			Linear Static	VTSCSC	0,
ELS-CHK-166			Linear Static	VV	0,
ELS-CHK-166			Linear Static	VLSSC	0,
ELS-CHK-166			Linear Static	VLCSC	0,3
ELS-CHK-166			Linear Static	TU-DIL	0,
ELS-CHK-166			Linear Static	TU-CON	1,
ELS-CHK-166			Linear Static	GRA-HEAT	0,75
ELS-CHK-166			Linear Static	GRA-COOL	0,
ELS-CHK-167			Linear Static	PP	1,
ELS-CHK-167			Linear Static	CM-TUBERIA	1,
ELS-CHK-167			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-167			Linear Static	SCU	0,4
ELS-CHK-167			Linear Static	VTSSC	0,
ELS-CHK-167	Linear Add	No	Linear Static	VTSCSC	0,
ELS-CHK-167			Linear Static	VV	0,
ELS-CHK-167			Linear Static	VLSSC	0,
ELS-CHK-167			Linear Static	VLCSC	0,3
ELS-CHK-167			Linear Static	TU-DIL	1,
ELS-CHK-167			Linear Static	TU-CON	0,
ELS-CHK-167			Linear Static	GRA-HEAT	0,
ELS-CHK-167			Linear Static	GRA-COOL	0,75
ELS-CHK-168			Linear Static	PP	1,
ELS-CHK-168			Linear Static	CM-TUBERIA	1,
ELS-CHK-168			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-168			Linear Static	SCU	0,4
ELS-CHK-168			Linear Static	VTSSC	0,
ELS-CHK-168			Linear Static	VTSCSC	0,
ELS-CHK-168			Linear Static	VV	0,
ELS-CHK-168	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-168			Linear Static	VLCSC	0,3
ELS-CHK-168			Linear Static	TU-DIL	0,
ELS-CHK-168			Linear Static	TU-CON	1,
ELS-CHK-168			Linear Static	GRA-HEAT	0,
ELS-CHK-168			Linear Static	GRA-COOL	0,75
ELS-FREQ-1			Linear Static	PP	1,
ELS-FREQ-1			Linear Static	CM-TUBERIA	1,
ELS-FREQ-1			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-1			Linear Static	SCU	0,4
ELS-FREQ-1			Linear Static	VTSSC	0,
ELS-FREQ-1			Linear Static	VTSCSC	0,
ELS-FREQ-1			Linear Static	VV	0,
ELS-FREQ-1			Linear Static	VLSSC	0,
ELS-FREQ-1			Linear Static	VLCSC	0,
ELS-FREQ-1	Linear Add	No	Linear Static	TU-DIL	0,175
ELS-FREQ-1			Linear Static	TU-CON	0,
ELS-FREQ-1			Linear Static	GRA-HEAT	0,5
ELS-FREQ-1			Linear Static	GRA-COOL	0,
ELS-FREQ-2			Linear Static	PP	1,
ELS-FREQ-2			Linear Static	CM-TUBERIA	1,
ELS-FREQ-2			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-2	Linear Add	No	Linear Static	SCU	0,4
ELS-FREQ-2			Linear Static	VTSSC	0,
ELS-FREQ-2			Linear Static	VTSCSC	0,
ELS-FREQ-2			Linear Static	VV	0,
ELS-FREQ-2			Linear Static	VLSSC	0,
ELS-FREQ-2			Linear Static	VLCSC	0,
ELS-FREQ-2			Linear Static	TU-DIL	0,
ELS-FREQ-2			Linear Static	TU-CON	0,175
ELS-FREQ-2			Linear Static	GRA-HEAT	0,5
ELS-FREQ-2			Linear Static	GRA-COOL	0,
ELS-FREQ-3			Linear Static	PP	1,
ELS-FREQ-3			Linear Static	CM-TUBERIA	1,
ELS-FREQ-3			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-3			Linear Static	SCU	0,4
ELS-FREQ-3			Linear Static	VTSSC	0,
ELS-FREQ-3	Linear Add	No	Linear Static	VTSCSC	0,
ELS-FREQ-3			Linear Static	VV	0,
ELS-FREQ-3			Linear Static	VLSSC	0,
ELS-FREQ-3			Linear Static	VLCSC	0,
ELS-FREQ-3			Linear Static	TU-DIL	0,175
ELS-FREQ-3			Linear Static	TU-CON	0,
ELS-FREQ-3			Linear Static	GRA-HEAT	0,
ELS-FREQ-3			Linear Static	GRA-COOL	0,5
ELS-FREQ-4			Linear Static	PP	1,
ELS-FREQ-4			Linear Static	CM-TUBERIA	1,
ELS-FREQ-4			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-4			Linear Static	SCU	0,4
ELS-FREQ-4			Linear Static	VTSSC	0,
ELS-FREQ-4			Linear Static	VTSCSC	0,
ELS-FREQ-4			Linear Static	VV	0,
ELS-FREQ-4	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-4			Linear Static	VLCSC	0,
ELS-FREQ-4			Linear Static	TU-DIL	0,
ELS-FREQ-4			Linear Static	TU-CON	0,175
ELS-FREQ-4			Linear Static	GRA-HEAT	0,
ELS-FREQ-4			Linear Static	GRA-COOL	0,5
ELS-FREQ-5			Linear Static	PP	1,
ELS-FREQ-5			Linear Static	CM-TUBERIA	1,
ELS-FREQ-5			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-5			Linear Static	SCU	0,4
ELS-FREQ-5			Linear Static	VTSSC	0,
ELS-FREQ-5			Linear Static	VTSCSC	0,
ELS-FREQ-5			Linear Static	VV	0,
ELS-FREQ-5			Linear Static	VLSSC	0,
ELS-FREQ-5			Linear Static	VLCSC	0,
ELS-FREQ-5	Linear Add	No	Linear Static	TU-DIL	0,5
ELS-FREQ-5			Linear Static	TU-CON	0,
ELS-FREQ-5			Linear Static	GRA-HEAT	0,375
ELS-FREQ-5			Linear Static	GRA-COOL	0,
ELS-FREQ-6			Linear Static	PP	1,
ELS-FREQ-6			Linear Static	CM-TUBERIA	1,
ELS-FREQ-6			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-6	Linear Add	No	Linear Static	SCU	0,4
ELS-FREQ-6			Linear Static	VTSSC	0,
ELS-FREQ-6			Linear Static	VTSCC	0,
ELS-FREQ-6			Linear Static	VV	0,
ELS-FREQ-6			Linear Static	VLSSC	0,
ELS-FREQ-6			Linear Static	VLCSC	0,
ELS-FREQ-6			Linear Static	TU-DIL	0,
ELS-FREQ-6			Linear Static	TU-CON	0,5
ELS-FREQ-6			Linear Static	GRA-HEAT	0,375
ELS-FREQ-6			Linear Static	GRA-COOL	0,
ELS-FREQ-7			Linear Static	PP	1,
ELS-FREQ-7			Linear Static	CM-TUBERIA	1,
ELS-FREQ-7			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-7	Linear Add	No	Linear Static	SCU	0,4
ELS-FREQ-7			Linear Static	VTSSC	0,
ELS-FREQ-7			Linear Static	VTSCC	0,
ELS-FREQ-7			Linear Static	VV	0,
ELS-FREQ-7			Linear Static	VLSSC	0,
ELS-FREQ-7			Linear Static	VLCSC	0,
ELS-FREQ-7			Linear Static	TU-DIL	0,5
ELS-FREQ-7			Linear Static	TU-CON	0,
ELS-FREQ-7			Linear Static	GRA-HEAT	0,
ELS-FREQ-7			Linear Static	GRA-COOL	0,375
ELS-FREQ-8			Linear Static	PP	1,
ELS-FREQ-8			Linear Static	CM-TUBERIA	1,
ELS-FREQ-8			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-8	Linear Add	No	Linear Static	SCU	0,4
ELS-FREQ-8			Linear Static	VTSSC	0,
ELS-FREQ-8			Linear Static	VTSCC	0,
ELS-FREQ-8			Linear Static	VV	0,
ELS-FREQ-8			Linear Static	VLSSC	0,
ELS-FREQ-8			Linear Static	VLCSC	0,
ELS-FREQ-8			Linear Static	TU-DIL	0,
ELS-FREQ-8			Linear Static	TU-CON	0,5
ELS-FREQ-8			Linear Static	GRA-HEAT	0,
ELS-FREQ-8			Linear Static	GRA-COOL	0,375
ELS-FREQ-9			Linear Static	PP	1,
ELS-FREQ-9			Linear Static	CM-TUBERIA	1,
ELS-FREQ-9			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-9	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-9			Linear Static	VTSSC	0,
ELS-FREQ-9			Linear Static	VTSCC	0,
ELS-FREQ-9			Linear Static	VV	0,
ELS-FREQ-9			Linear Static	VLSSC	0,
ELS-FREQ-9			Linear Static	VLCSC	0,
ELS-FREQ-9			Linear Static	TU-DIL	0,175
ELS-FREQ-9			Linear Static	TU-CON	0,
ELS-FREQ-9			Linear Static	GRA-HEAT	0,5
ELS-FREQ-9			Linear Static	GRA-COOL	0,
ELS-FREQ-10			Linear Static	PP	1,
ELS-FREQ-10			Linear Static	CM-TUBERIA	1,
ELS-FREQ-10			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-10			Linear Static	SCU	0,
ELS-FREQ-10			Linear Static	VTSSC	0,
ELS-FREQ-10			Linear Static	VTSCSC	0,
ELS-FREQ-10			Linear Static	VV	0,
ELS-FREQ-10			Linear Static	VLSSC	0,
ELS-FREQ-10			Linear Static	VLCSC	0,
ELS-FREQ-10			Linear Static	TU-DIL	0,
ELS-FREQ-10			Linear Static	TU-CON	0,175
ELS-FREQ-10			Linear Static	GRA-HEAT	0,5
ELS-FREQ-10			Linear Static	GRA-COOL	0,
ELS-FREQ-11	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-11			Linear Static	CM-TUBERIA	1,
ELS-FREQ-11			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-11			Linear Static	SCU	0,
ELS-FREQ-11			Linear Static	VTSSC	0,
ELS-FREQ-11			Linear Static	VTSCSC	0,
ELS-FREQ-11			Linear Static	VV	0,
ELS-FREQ-11			Linear Static	VLSSC	0,
ELS-FREQ-11			Linear Static	VLCSC	0,
ELS-FREQ-11			Linear Static	TU-DIL	0,175
ELS-FREQ-11			Linear Static	TU-CON	0,
ELS-FREQ-11			Linear Static	GRA-HEAT	0,
ELS-FREQ-11			Linear Static	GRA-COOL	0,5
ELS-FREQ-12	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-12			Linear Static	CM-TUBERIA	1,
ELS-FREQ-12			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-12			Linear Static	SCU	0,
ELS-FREQ-12			Linear Static	VTSSC	0,
ELS-FREQ-12			Linear Static	VTSCSC	0,
ELS-FREQ-12			Linear Static	VV	0,
ELS-FREQ-12			Linear Static	VLSSC	0,
ELS-FREQ-12			Linear Static	VLCSC	0,
ELS-FREQ-12			Linear Static	TU-DIL	0,
ELS-FREQ-12			Linear Static	TU-CON	0,175
ELS-FREQ-12			Linear Static	GRA-HEAT	0,
ELS-FREQ-12			Linear Static	GRA-COOL	0,5
ELS-FREQ-13	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-13			Linear Static	CM-TUBERIA	1,
ELS-FREQ-13			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-13			Linear Static	SCU	0,
ELS-FREQ-13			Linear Static	VTSSC	0,
ELS-FREQ-13			Linear Static	VTSCSC	0,
ELS-FREQ-13			Linear Static	VV	0,
ELS-FREQ-13			Linear Static	VLSSC	0,
ELS-FREQ-13			Linear Static	VLCSC	0,
ELS-FREQ-13			Linear Static	TU-DIL	0,5
ELS-FREQ-13			Linear Static	TU-CON	0,
ELS-FREQ-13			Linear Static	GRA-HEAT	0,375
ELS-FREQ-13			Linear Static	GRA-COOL	0,
ELS-FREQ-14	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-14			Linear Static	CM-TUBERIA	1,
ELS-FREQ-14			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-14	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-14			Linear Static	VTSSC	0,
ELS-FREQ-14			Linear Static	VTSCSC	0,
ELS-FREQ-14			Linear Static	VV	0,
ELS-FREQ-14			Linear Static	VLSSC	0,
ELS-FREQ-14			Linear Static	VLCSC	0,
ELS-FREQ-14			Linear Static	TU-DIL	0,
ELS-FREQ-14			Linear Static	TU-CON	0,5
ELS-FREQ-14			Linear Static	GRA-HEAT	0,375
ELS-FREQ-14			Linear Static	GRA-COOL	0,
ELS-FREQ-15	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-15			Linear Static	CM-TUBERIA	1,
ELS-FREQ-15			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-15			Linear Static	SCU	0,
ELS-FREQ-15			Linear Static	VTSSC	0,
ELS-FREQ-15			Linear Static	VTSCSC	0,
ELS-FREQ-15			Linear Static	VV	0,
ELS-FREQ-15			Linear Static	VLSSC	0,
ELS-FREQ-15			Linear Static	VLCSC	0,
ELS-FREQ-15			Linear Static	TU-DIL	0,5
ELS-FREQ-15	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-15			Linear Static	GRA-HEAT	0,
ELS-FREQ-15			Linear Static	GRA-COOL	0,375
ELS-FREQ-16			Linear Static	PP	1,
ELS-FREQ-16			Linear Static	CM-TUBERIA	1,
ELS-FREQ-16			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-16			Linear Static	SCU	0,
ELS-FREQ-16			Linear Static	VTSSC	0,
ELS-FREQ-16			Linear Static	VTSCSC	0,
ELS-FREQ-16			Linear Static	VV	0,
ELS-FREQ-16	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-16			Linear Static	VLCSC	0,
ELS-FREQ-16			Linear Static	TU-DIL	0,
ELS-FREQ-16			Linear Static	TU-CON	0,5
ELS-FREQ-16			Linear Static	GRA-HEAT	0,
ELS-FREQ-16			Linear Static	GRA-COOL	0,375
ELS-FREQ-17			Linear Static	PP	1,
ELS-FREQ-17			Linear Static	CM-TUBERIA	1,
ELS-FREQ-17			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-17			Linear Static	SCU	0,
ELS-FREQ-17	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-17			Linear Static	VTSCSC	0,2
ELS-FREQ-17			Linear Static	VV	0,
ELS-FREQ-17			Linear Static	VLSSC	0,
ELS-FREQ-17			Linear Static	VLCSC	0,
ELS-FREQ-17			Linear Static	TU-DIL	0,175
ELS-FREQ-17			Linear Static	TU-CON	0,
ELS-FREQ-17			Linear Static	GRA-HEAT	0,5
ELS-FREQ-17			Linear Static	GRA-COOL	0,
ELS-FREQ-18			Linear Static	PP	1,
ELS-FREQ-18	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-FREQ-18			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-18	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-18			Linear Static	VTSSC	0,
ELS-FREQ-18			Linear Static	VTSCSC	0,2
ELS-FREQ-18			Linear Static	VV	0,
ELS-FREQ-18			Linear Static	VLSSC	0,
ELS-FREQ-18			Linear Static	VLCS	0,
ELS-FREQ-18			Linear Static	TU-DIL	0,
ELS-FREQ-18			Linear Static	TU-CON	0,175
ELS-FREQ-18			Linear Static	GRA-HEAT	0,5
ELS-FREQ-18			Linear Static	GRA-COOL	0,
ELS-FREQ-19			Linear Static	PP	1,
ELS-FREQ-19			Linear Static	CM-TUBERIA	1,
ELS-FREQ-19	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-19			Linear Static	SCU	0,
ELS-FREQ-19			Linear Static	VTSSC	0,
ELS-FREQ-19			Linear Static	VTSCSC	0,2
ELS-FREQ-19			Linear Static	VV	0,
ELS-FREQ-19			Linear Static	VLSSC	0,
ELS-FREQ-19			Linear Static	VLCS	0,
ELS-FREQ-19			Linear Static	TU-DIL	0,175
ELS-FREQ-19			Linear Static	TU-CON	0,
ELS-FREQ-19			Linear Static	GRA-HEAT	0,
ELS-FREQ-19			Linear Static	GRA-COOL	0,5
ELS-FREQ-20	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-20			Linear Static	CM-TUBERIA	1,
ELS-FREQ-20			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-20			Linear Static	SCU	0,
ELS-FREQ-20			Linear Static	VTSSC	0,
ELS-FREQ-20			Linear Static	VTSCSC	0,2
ELS-FREQ-20			Linear Static	VV	0,
ELS-FREQ-20			Linear Static	VLSSC	0,
ELS-FREQ-20			Linear Static	VLCS	0,
ELS-FREQ-20			Linear Static	TU-DIL	0,
ELS-FREQ-20			Linear Static	TU-CON	0,175
ELS-FREQ-20			Linear Static	GRA-HEAT	0,
ELS-FREQ-20	Linear Add	No	Linear Static	GRA-COOL	0,5
ELS-FREQ-21			Linear Static	PP	1,
ELS-FREQ-21			Linear Static	CM-TUBERIA	1,
ELS-FREQ-21			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-21			Linear Static	SCU	0,
ELS-FREQ-21			Linear Static	VTSSC	0,
ELS-FREQ-21			Linear Static	VTSCSC	0,2
ELS-FREQ-21			Linear Static	VV	0,
ELS-FREQ-21			Linear Static	VLSSC	0,
ELS-FREQ-21			Linear Static	VLCS	0,
ELS-FREQ-21			Linear Static	TU-DIL	0,5
ELS-FREQ-21			Linear Static	TU-CON	0,
ELS-FREQ-21	Linear Add	No	Linear Static	GRA-HEAT	0,375
ELS-FREQ-21			Linear Static	GRA-COOL	0,
ELS-FREQ-22			Linear Static	PP	1,
ELS-FREQ-22			Linear Static	CM-TUBERIA	1,
ELS-FREQ-22			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-22	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-22			Linear Static	VTSSC	0,
ELS-FREQ-22			Linear Static	VTSCSC	0,2
ELS-FREQ-22			Linear Static	VV	0,
ELS-FREQ-22			Linear Static	VLSSC	0,
ELS-FREQ-22			Linear Static	VLCSC	0,
ELS-FREQ-22			Linear Static	TU-DIL	0,
ELS-FREQ-22			Linear Static	TU-CON	0,5
ELS-FREQ-22			Linear Static	GRA-HEAT	0,375
ELS-FREQ-22			Linear Static	GRA-COOL	0,
ELS-FREQ-23			Linear Static	PP	1,
ELS-FREQ-23			Linear Static	CM-TUBERIA	1,
ELS-FREQ-23	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-23			Linear Static	SCU	0,
ELS-FREQ-23			Linear Static	VTSSC	0,
ELS-FREQ-23			Linear Static	VTSCSC	0,2
ELS-FREQ-23			Linear Static	VV	0,
ELS-FREQ-23			Linear Static	VLSSC	0,
ELS-FREQ-23			Linear Static	VLCSC	0,
ELS-FREQ-23			Linear Static	TU-DIL	0,5
ELS-FREQ-23			Linear Static	TU-CON	0,
ELS-FREQ-23			Linear Static	GRA-HEAT	0,
ELS-FREQ-23			Linear Static	GRA-COOL	0,375
ELS-FREQ-24			Linear Static	PP	1,
ELS-FREQ-24	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-FREQ-24			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-24			Linear Static	SCU	0,
ELS-FREQ-24			Linear Static	VTSSC	0,
ELS-FREQ-24			Linear Static	VTSCSC	0,2
ELS-FREQ-24			Linear Static	VV	0,
ELS-FREQ-24			Linear Static	VLSSC	0,
ELS-FREQ-24			Linear Static	VLCSC	0,
ELS-FREQ-24			Linear Static	TU-DIL	0,
ELS-FREQ-24			Linear Static	TU-CON	0,5
ELS-FREQ-24			Linear Static	GRA-HEAT	0,
ELS-FREQ-24			Linear Static	GRA-COOL	0,375
ELS-FREQ-25	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-25			Linear Static	CM-TUBERIA	1,
ELS-FREQ-25			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-25			Linear Static	SCU	0,
ELS-FREQ-25			Linear Static	VTSSC	0,
ELS-FREQ-25			Linear Static	VTSCSC	0,2
ELS-FREQ-25			Linear Static	VV	0,2
ELS-FREQ-25			Linear Static	VLSSC	0,
ELS-FREQ-25			Linear Static	VLCSC	0,
ELS-FREQ-25			Linear Static	TU-DIL	0,175
ELS-FREQ-25			Linear Static	TU-CON	0,
ELS-FREQ-25			Linear Static	GRA-HEAT	0,5
ELS-FREQ-25	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-FREQ-26			Linear Static	PP	1,
ELS-FREQ-26			Linear Static	CM-TUBERIA	1,
ELS-FREQ-26			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-26	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-26			Linear Static	VTSSC	0,
ELS-FREQ-26			Linear Static	VTSCSC	0,2
ELS-FREQ-26			Linear Static	VV	0,2
ELS-FREQ-26			Linear Static	VLSSC	0,
ELS-FREQ-26			Linear Static	VLCSC	0,
ELS-FREQ-26			Linear Static	TU-DIL	0,
ELS-FREQ-26			Linear Static	TU-CON	0,175
ELS-FREQ-26			Linear Static	GRA-HEAT	0,5
ELS-FREQ-26			Linear Static	GRA-COOL	0,
ELS-FREQ-27			Linear Static	PP	1,
ELS-FREQ-27			Linear Static	CM-TUBERIA	1,
ELS-FREQ-27			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-27			Linear Static	SCU	0,
ELS-FREQ-27			Linear Static	VTSSC	0,
ELS-FREQ-27	Linear Add	No	Linear Static	VTSCSC	0,2
ELS-FREQ-27			Linear Static	VV	0,2
ELS-FREQ-27			Linear Static	VLSSC	0,
ELS-FREQ-27			Linear Static	VLCSC	0,
ELS-FREQ-27			Linear Static	TU-DIL	0,175
ELS-FREQ-27			Linear Static	TU-CON	0,
ELS-FREQ-27			Linear Static	GRA-HEAT	0,
ELS-FREQ-27			Linear Static	GRA-COOL	0,5
ELS-FREQ-28			Linear Static	PP	1,
ELS-FREQ-28			Linear Static	CM-TUBERIA	1,
ELS-FREQ-28			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-28			Linear Static	SCU	0,
ELS-FREQ-28			Linear Static	VTSSC	0,
ELS-FREQ-28			Linear Static	VTSCSC	0,2
ELS-FREQ-28			Linear Static	VV	0,2
ELS-FREQ-28	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-28			Linear Static	VLCSC	0,
ELS-FREQ-28			Linear Static	TU-DIL	0,
ELS-FREQ-28			Linear Static	TU-CON	0,175
ELS-FREQ-28			Linear Static	GRA-HEAT	0,
ELS-FREQ-28			Linear Static	GRA-COOL	0,5
ELS-FREQ-29			Linear Static	PP	1,
ELS-FREQ-29			Linear Static	CM-TUBERIA	1,
ELS-FREQ-29			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-29			Linear Static	SCU	0,
ELS-FREQ-29			Linear Static	VTSSC	0,
ELS-FREQ-29			Linear Static	VTSCSC	0,2
ELS-FREQ-29			Linear Static	VV	0,2
ELS-FREQ-29			Linear Static	VLSSC	0,
ELS-FREQ-29			Linear Static	VLCSC	0,
ELS-FREQ-29	Linear Add	No	Linear Static	TU-DIL	0,5
ELS-FREQ-29			Linear Static	TU-CON	0,
ELS-FREQ-29			Linear Static	GRA-HEAT	0,375
ELS-FREQ-29			Linear Static	GRA-COOL	0,
ELS-FREQ-30			Linear Static	PP	1,
ELS-FREQ-30			Linear Static	CM-TUBERIA	1,
ELS-FREQ-30			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-30	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-30			Linear Static	VTSSC	0,
ELS-FREQ-30			Linear Static	VTSCSC	0,2
ELS-FREQ-30			Linear Static	VV	0,2
ELS-FREQ-30			Linear Static	VLSSC	0,
ELS-FREQ-30			Linear Static	VLCSC	0,
ELS-FREQ-30			Linear Static	TU-DIL	0,
ELS-FREQ-30			Linear Static	TU-CON	0,5
ELS-FREQ-30			Linear Static	GRA-HEAT	0,375
ELS-FREQ-30			Linear Static	GRA-COOL	0,
ELS-FREQ-31			Linear Static	PP	1,
ELS-FREQ-31			Linear Static	CM-TUBERIA	1,
ELS-FREQ-31			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-31			Linear Static	SCU	0,
ELS-FREQ-31			Linear Static	VTSSC	0,
ELS-FREQ-31	Linear Add	No	Linear Static	VTSCSC	0,2
ELS-FREQ-31			Linear Static	VV	0,2
ELS-FREQ-31			Linear Static	VLSSC	0,
ELS-FREQ-31			Linear Static	VLCSC	0,
ELS-FREQ-31			Linear Static	TU-DIL	0,5
ELS-FREQ-31			Linear Static	TU-CON	0,
ELS-FREQ-31			Linear Static	GRA-HEAT	0,
ELS-FREQ-31			Linear Static	GRA-COOL	0,375
ELS-FREQ-32			Linear Static	PP	1,
ELS-FREQ-32			Linear Static	CM-TUBERIA	1,
ELS-FREQ-32			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-32			Linear Static	SCU	0,
ELS-FREQ-32			Linear Static	VTSSC	0,
ELS-FREQ-32			Linear Static	VTSCSC	0,2
ELS-FREQ-32			Linear Static	VV	0,2
ELS-FREQ-32	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-32			Linear Static	VLCSC	0,
ELS-FREQ-32			Linear Static	TU-DIL	0,
ELS-FREQ-32			Linear Static	TU-CON	0,5
ELS-FREQ-32			Linear Static	GRA-HEAT	0,
ELS-FREQ-32			Linear Static	GRA-COOL	0,375
ELS-FREQ-33			Linear Static	PP	1,
ELS-FREQ-33			Linear Static	CM-TUBERIA	1,
ELS-FREQ-33			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-33			Linear Static	SCU	0,
ELS-FREQ-33			Linear Static	VTSSC	0,2
ELS-FREQ-33			Linear Static	VTSCSC	0,
ELS-FREQ-33			Linear Static	VV	0,
ELS-FREQ-33			Linear Static	VLSSC	0,
ELS-FREQ-33			Linear Static	VLCSC	0,
ELS-FREQ-33	Linear Add	No	Linear Static	TU-DIL	0,175
ELS-FREQ-33			Linear Static	TU-CON	0,
ELS-FREQ-33			Linear Static	GRA-HEAT	0,5
ELS-FREQ-33			Linear Static	GRA-COOL	0,
ELS-FREQ-34			Linear Static	PP	1,
ELS-FREQ-34			Linear Static	CM-TUBERIA	1,
ELS-FREQ-34			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-34	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-34			Linear Static	VTSSC	0,2
ELS-FREQ-34			Linear Static	VTSCSC	0,
ELS-FREQ-34			Linear Static	VV	0,
ELS-FREQ-34			Linear Static	VLSSC	0,
ELS-FREQ-34			Linear Static	VLCSC	0,
ELS-FREQ-34			Linear Static	TU-DIL	0,
ELS-FREQ-34			Linear Static	TU-CON	0,175
ELS-FREQ-34			Linear Static	GRA-HEAT	0,5
ELS-FREQ-34			Linear Static	GRA-COOL	0,
ELS-FREQ-35			Linear Static	PP	1,
ELS-FREQ-35			Linear Static	CM-TUBERIA	1,
ELS-FREQ-35			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-35			Linear Static	SCU	0,
ELS-FREQ-35			Linear Static	VTSSC	0,2
ELS-FREQ-35	Linear Add	No	Linear Static	VTSCSC	0,
ELS-FREQ-35			Linear Static	VV	0,
ELS-FREQ-35			Linear Static	VLSSC	0,
ELS-FREQ-35			Linear Static	VLCSC	0,
ELS-FREQ-35			Linear Static	TU-DIL	0,175
ELS-FREQ-35			Linear Static	TU-CON	0,
ELS-FREQ-35			Linear Static	GRA-HEAT	0,
ELS-FREQ-35			Linear Static	GRA-COOL	0,5
ELS-FREQ-36			Linear Static	PP	1,
ELS-FREQ-36			Linear Static	CM-TUBERIA	1,
ELS-FREQ-36			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-36			Linear Static	SCU	0,
ELS-FREQ-36			Linear Static	VTSSC	0,2
ELS-FREQ-36			Linear Static	VTSCSC	0,
ELS-FREQ-36			Linear Static	VV	0,
ELS-FREQ-36	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-36			Linear Static	VLCSC	0,
ELS-FREQ-36			Linear Static	TU-DIL	0,
ELS-FREQ-36			Linear Static	TU-CON	0,175
ELS-FREQ-36			Linear Static	GRA-HEAT	0,
ELS-FREQ-36			Linear Static	GRA-COOL	0,5
ELS-FREQ-37			Linear Static	PP	1,
ELS-FREQ-37			Linear Static	CM-TUBERIA	1,
ELS-FREQ-37			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-37			Linear Static	SCU	0,
ELS-FREQ-37			Linear Static	VTSSC	0,2
ELS-FREQ-37			Linear Static	VTSCSC	0,
ELS-FREQ-37			Linear Static	VV	0,
ELS-FREQ-37			Linear Static	VLSSC	0,
ELS-FREQ-37			Linear Static	VLCSC	0,
ELS-FREQ-37	Linear Add	No	Linear Static	TU-DIL	0,5
ELS-FREQ-37			Linear Static	TU-CON	0,
ELS-FREQ-37			Linear Static	GRA-HEAT	0,375
ELS-FREQ-37			Linear Static	GRA-COOL	0,
ELS-FREQ-38			Linear Static	PP	1,
ELS-FREQ-38			Linear Static	CM-TUBERIA	1,
ELS-FREQ-38			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-38	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-38			Linear Static	VTSSC	0,2
ELS-FREQ-38			Linear Static	VTSCSC	0,
ELS-FREQ-38			Linear Static	VV	0,
ELS-FREQ-38			Linear Static	VLSSC	0,
ELS-FREQ-38			Linear Static	VLCSC	0,
ELS-FREQ-38			Linear Static	TU-DIL	0,
ELS-FREQ-38			Linear Static	TU-CON	0,5
ELS-FREQ-38			Linear Static	GRA-HEAT	0,375
ELS-FREQ-38			Linear Static	GRA-COOL	0,
ELS-FREQ-39			Linear Static	PP	1,
ELS-FREQ-39			Linear Static	CM-TUBERIA	1,
ELS-FREQ-39	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-39			Linear Static	SCU	0,
ELS-FREQ-39			Linear Static	VTSSC	0,2
ELS-FREQ-39			Linear Static	VTSCSC	0,
ELS-FREQ-39			Linear Static	VV	0,
ELS-FREQ-39			Linear Static	VLSSC	0,
ELS-FREQ-39			Linear Static	VLCSC	0,
ELS-FREQ-39			Linear Static	TU-DIL	0,5
ELS-FREQ-39			Linear Static	TU-CON	0,
ELS-FREQ-39			Linear Static	GRA-HEAT	0,
ELS-FREQ-39			Linear Static	GRA-COOL	0,375
ELS-FREQ-40			Linear Static	PP	1,
ELS-FREQ-40	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-FREQ-40			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-40			Linear Static	SCU	0,
ELS-FREQ-40			Linear Static	VTSSC	0,2
ELS-FREQ-40			Linear Static	VTSCSC	0,
ELS-FREQ-40			Linear Static	VV	0,
ELS-FREQ-40			Linear Static	VLSSC	0,
ELS-FREQ-40			Linear Static	VLCSC	0,
ELS-FREQ-40			Linear Static	TU-DIL	0,
ELS-FREQ-40			Linear Static	TU-CON	0,5
ELS-FREQ-40			Linear Static	GRA-HEAT	0,
ELS-FREQ-40			Linear Static	GRA-COOL	0,375
ELS-FREQ-41	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-41			Linear Static	CM-TUBERIA	1,
ELS-FREQ-41			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-41			Linear Static	SCU	0,
ELS-FREQ-41			Linear Static	VTSSC	0,2
ELS-FREQ-41			Linear Static	VTSCSC	0,
ELS-FREQ-41			Linear Static	VV	0,2
ELS-FREQ-41			Linear Static	VLSSC	0,
ELS-FREQ-41			Linear Static	VLCSC	0,
ELS-FREQ-41			Linear Static	TU-DIL	0,175
ELS-FREQ-41			Linear Static	TU-CON	0,
ELS-FREQ-41			Linear Static	GRA-HEAT	0,5
ELS-FREQ-41	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-FREQ-42			Linear Static	PP	1,
ELS-FREQ-42			Linear Static	CM-TUBERIA	1,
ELS-FREQ-42			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-42	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-42			Linear Static	VTSSC	0,2
ELS-FREQ-42			Linear Static	VTSCSC	0,
ELS-FREQ-42			Linear Static	VV	0,2
ELS-FREQ-42			Linear Static	VLSSC	0,
ELS-FREQ-42			Linear Static	VLCS	0,
ELS-FREQ-42			Linear Static	TU-DIL	0,
ELS-FREQ-42			Linear Static	TU-CON	0,175
ELS-FREQ-42			Linear Static	GRA-HEAT	0,5
ELS-FREQ-42			Linear Static	GRA-COOL	0,
ELS-FREQ-43			Linear Static	PP	1,
ELS-FREQ-43			Linear Static	CM-TUBERIA	1,
ELS-FREQ-43			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-43			Linear Static	SCU	0,
ELS-FREQ-43			Linear Static	VTSSC	0,2
ELS-FREQ-43	Linear Add	No	Linear Static	VTSCSC	0,
ELS-FREQ-43			Linear Static	VV	0,2
ELS-FREQ-43			Linear Static	VLSSC	0,
ELS-FREQ-43			Linear Static	VLCS	0,
ELS-FREQ-43			Linear Static	TU-DIL	0,175
ELS-FREQ-43			Linear Static	TU-CON	0,
ELS-FREQ-43			Linear Static	GRA-HEAT	0,
ELS-FREQ-43			Linear Static	GRA-COOL	0,5
ELS-FREQ-44			Linear Static	PP	1,
ELS-FREQ-44			Linear Static	CM-TUBERIA	1,
ELS-FREQ-44			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-44			Linear Static	SCU	0,
ELS-FREQ-44			Linear Static	VTSSC	0,2
ELS-FREQ-44			Linear Static	VTSCSC	0,
ELS-FREQ-44			Linear Static	VV	0,2
ELS-FREQ-44	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-44			Linear Static	VLCS	0,
ELS-FREQ-44			Linear Static	TU-DIL	0,
ELS-FREQ-44			Linear Static	TU-CON	0,175
ELS-FREQ-44			Linear Static	GRA-HEAT	0,
ELS-FREQ-44			Linear Static	GRA-COOL	0,5
ELS-FREQ-45			Linear Static	PP	1,
ELS-FREQ-45			Linear Static	CM-TUBERIA	1,
ELS-FREQ-45			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-45			Linear Static	SCU	0,
ELS-FREQ-45			Linear Static	VTSSC	0,2
ELS-FREQ-45			Linear Static	VTSCSC	0,
ELS-FREQ-45			Linear Static	VV	0,2
ELS-FREQ-45			Linear Static	VLSSC	0,
ELS-FREQ-45			Linear Static	VLCS	0,
ELS-FREQ-45	Linear Add	No	Linear Static	TU-DIL	0,5
ELS-FREQ-45			Linear Static	TU-CON	0,
ELS-FREQ-45			Linear Static	GRA-HEAT	0,375
ELS-FREQ-45			Linear Static	GRA-COOL	0,
ELS-FREQ-46			Linear Static	PP	1,
ELS-FREQ-46			Linear Static	CM-TUBERIA	1,
ELS-FREQ-46			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-46	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-46			Linear Static	VTSSC	0,2
ELS-FREQ-46			Linear Static	VTSCSC	0,
ELS-FREQ-46			Linear Static	VV	0,2
ELS-FREQ-46			Linear Static	VLSSC	0,
ELS-FREQ-46			Linear Static	VLCSC	0,
ELS-FREQ-46			Linear Static	TU-DIL	0,
ELS-FREQ-46			Linear Static	TU-CON	0,5
ELS-FREQ-46			Linear Static	GRA-HEAT	0,375
ELS-FREQ-46			Linear Static	GRA-COOL	0,
ELS-FREQ-47			Linear Static	PP	1,
ELS-FREQ-47			Linear Static	CM-TUBERIA	1,
ELS-FREQ-47	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-47			Linear Static	SCU	0,
ELS-FREQ-47			Linear Static	VTSSC	0,2
ELS-FREQ-47			Linear Static	VTSCSC	0,
ELS-FREQ-47			Linear Static	VV	0,2
ELS-FREQ-47			Linear Static	VLSSC	0,
ELS-FREQ-47			Linear Static	VLCSC	0,
ELS-FREQ-47			Linear Static	TU-DIL	0,5
ELS-FREQ-47			Linear Static	TU-CON	0,
ELS-FREQ-47			Linear Static	GRA-HEAT	0,
ELS-FREQ-47			Linear Static	GRA-COOL	0,375
ELS-FREQ-48			Linear Static	PP	1,
ELS-FREQ-48	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-FREQ-48			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-48			Linear Static	SCU	0,
ELS-FREQ-48			Linear Static	VTSSC	0,2
ELS-FREQ-48			Linear Static	VTSCSC	0,
ELS-FREQ-48			Linear Static	VV	0,2
ELS-FREQ-48			Linear Static	VLSSC	0,
ELS-FREQ-48			Linear Static	VLCSC	0,
ELS-FREQ-48			Linear Static	TU-DIL	0,
ELS-FREQ-48			Linear Static	TU-CON	0,5
ELS-FREQ-48			Linear Static	GRA-HEAT	0,
ELS-FREQ-48			Linear Static	GRA-COOL	0,375
ELS-FREQ-49	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-49			Linear Static	CM-TUBERIA	1,
ELS-FREQ-49			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-49			Linear Static	SCU	0,
ELS-FREQ-49			Linear Static	VTSSC	0,
ELS-FREQ-49			Linear Static	VTSCSC	0,
ELS-FREQ-49			Linear Static	VV	0,
ELS-FREQ-49			Linear Static	VLSSC	0,2
ELS-FREQ-49			Linear Static	VLCSC	0,
ELS-FREQ-49			Linear Static	TU-DIL	0,175
ELS-FREQ-49			Linear Static	TU-CON	0,
ELS-FREQ-49			Linear Static	GRA-HEAT	0,5
ELS-FREQ-49	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-FREQ-50			Linear Static	PP	1,
ELS-FREQ-50			Linear Static	CM-TUBERIA	1,
ELS-FREQ-50			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-50			Linear Static	SCU	0,
ELS-FREQ-50			Linear Static	VTSSC	0,
ELS-FREQ-50			Linear Static	VTSCSC	0,
ELS-FREQ-50			Linear Static	VV	0,
ELS-FREQ-50			Linear Static	VLSSC	0,2
ELS-FREQ-50			Linear Static	VLCS	0,
ELS-FREQ-50			Linear Static	TU-DIL	0,
ELS-FREQ-50			Linear Static	TU-CON	0,175
ELS-FREQ-50			Linear Static	GRA-HEAT	0,5
ELS-FREQ-50			Linear Static	GRA-COOL	0,
ELS-FREQ-51	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-51			Linear Static	CM-TUBERIA	1,
ELS-FREQ-51			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-51			Linear Static	SCU	0,
ELS-FREQ-51			Linear Static	VTSSC	0,
ELS-FREQ-51			Linear Static	VTSCSC	0,
ELS-FREQ-51			Linear Static	VV	0,
ELS-FREQ-51			Linear Static	VLSSC	0,2
ELS-FREQ-51			Linear Static	VLCS	0,
ELS-FREQ-51			Linear Static	TU-DIL	0,175
ELS-FREQ-51			Linear Static	TU-CON	0,
ELS-FREQ-51			Linear Static	GRA-HEAT	0,
ELS-FREQ-51			Linear Static	GRA-COOL	0,5
ELS-FREQ-52	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-52			Linear Static	CM-TUBERIA	1,
ELS-FREQ-52			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-52			Linear Static	SCU	0,
ELS-FREQ-52			Linear Static	VTSSC	0,
ELS-FREQ-52			Linear Static	VTSCSC	0,
ELS-FREQ-52			Linear Static	VV	0,
ELS-FREQ-52			Linear Static	VLSSC	0,2
ELS-FREQ-52			Linear Static	VLCS	0,
ELS-FREQ-52			Linear Static	TU-DIL	0,
ELS-FREQ-52			Linear Static	TU-CON	0,175
ELS-FREQ-52			Linear Static	GRA-HEAT	0,
ELS-FREQ-52			Linear Static	GRA-COOL	0,5
ELS-FREQ-53	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-53			Linear Static	CM-TUBERIA	1,
ELS-FREQ-53			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-53			Linear Static	SCU	0,
ELS-FREQ-53			Linear Static	VTSSC	0,
ELS-FREQ-53			Linear Static	VTSCSC	0,
ELS-FREQ-53			Linear Static	VV	0,
ELS-FREQ-53			Linear Static	VLSSC	0,2
ELS-FREQ-53			Linear Static	VLCS	0,
ELS-FREQ-53			Linear Static	TU-DIL	0,5
ELS-FREQ-53			Linear Static	TU-CON	0,
ELS-FREQ-53			Linear Static	GRA-HEAT	0,375
ELS-FREQ-53			Linear Static	GRA-COOL	0,
ELS-FREQ-54	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-54			Linear Static	CM-TUBERIA	1,
ELS-FREQ-54			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-54	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-54			Linear Static	VTSSC	0,
ELS-FREQ-54			Linear Static	VTSCC	0,
ELS-FREQ-54			Linear Static	VV	0,
ELS-FREQ-54			Linear Static	VLSSC	0,2
ELS-FREQ-54			Linear Static	VLCSC	0,
ELS-FREQ-54			Linear Static	TU-DIL	0,
ELS-FREQ-54			Linear Static	TU-CON	0,5
ELS-FREQ-54			Linear Static	GRA-HEAT	0,375
ELS-FREQ-54			Linear Static	GRA-COOL	0,
ELS-FREQ-55			Linear Static	PP	1,
ELS-FREQ-55			Linear Static	CM-TUBERIA	1,
ELS-FREQ-55			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-55	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-55			Linear Static	VTSSC	0,
ELS-FREQ-55			Linear Static	VTSCC	0,
ELS-FREQ-55			Linear Static	VV	0,
ELS-FREQ-55			Linear Static	VLSSC	0,2
ELS-FREQ-55			Linear Static	VLCSC	0,
ELS-FREQ-55			Linear Static	TU-DIL	0,5
ELS-FREQ-55			Linear Static	TU-CON	0,
ELS-FREQ-55			Linear Static	GRA-HEAT	0,
ELS-FREQ-55			Linear Static	GRA-COOL	0,375
ELS-FREQ-56			Linear Static	PP	1,
ELS-FREQ-56			Linear Static	CM-TUBERIA	1,
ELS-FREQ-56			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-56	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-56			Linear Static	VTSSC	0,
ELS-FREQ-56			Linear Static	VTSCC	0,
ELS-FREQ-56			Linear Static	VV	0,
ELS-FREQ-56			Linear Static	VLSSC	0,2
ELS-FREQ-56			Linear Static	VLCSC	0,
ELS-FREQ-56			Linear Static	TU-DIL	0,
ELS-FREQ-56			Linear Static	TU-CON	0,5
ELS-FREQ-56			Linear Static	GRA-HEAT	0,
ELS-FREQ-56			Linear Static	GRA-COOL	0,375
ELS-FREQ-57			Linear Static	PP	1,
ELS-FREQ-57			Linear Static	CM-TUBERIA	1,
ELS-FREQ-57			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-57	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-57			Linear Static	VTSSC	0,
ELS-FREQ-57			Linear Static	VTSCC	0,
ELS-FREQ-57			Linear Static	VV	0,
ELS-FREQ-57			Linear Static	VLSSC	0,
ELS-FREQ-57			Linear Static	VLCSC	0,2
ELS-FREQ-57			Linear Static	TU-DIL	0,175
ELS-FREQ-57			Linear Static	TU-CON	0,
ELS-FREQ-57			Linear Static	GRA-HEAT	0,5
ELS-FREQ-57			Linear Static	GRA-COOL	0,
ELS-FREQ-58			Linear Static	PP	1,
ELS-FREQ-58			Linear Static	CM-TUBERIA	1,
ELS-FREQ-58			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-58	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-58			Linear Static	VTSSC	0,
ELS-FREQ-58			Linear Static	VTSCSC	0,
ELS-FREQ-58			Linear Static	VV	0,
ELS-FREQ-58			Linear Static	VLSSC	0,
ELS-FREQ-58			Linear Static	VLCSC	0,2
ELS-FREQ-58			Linear Static	TU-DIL	0,
ELS-FREQ-58			Linear Static	TU-CON	0,175
ELS-FREQ-58			Linear Static	GRA-HEAT	0,5
ELS-FREQ-58			Linear Static	GRA-COOL	0,
ELS-FREQ-59			Linear Static	PP	1,
ELS-FREQ-59			Linear Static	CM-TUBERIA	1,
ELS-FREQ-59			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-59			Linear Static	SCU	0,
ELS-FREQ-59			Linear Static	VTSSC	0,
ELS-FREQ-59	Linear Add	No	Linear Static	VTSCSC	0,
ELS-FREQ-59			Linear Static	VV	0,
ELS-FREQ-59			Linear Static	VLSSC	0,
ELS-FREQ-59			Linear Static	VLCSC	0,2
ELS-FREQ-59			Linear Static	TU-DIL	0,175
ELS-FREQ-59			Linear Static	TU-CON	0,
ELS-FREQ-59			Linear Static	GRA-HEAT	0,
ELS-FREQ-59			Linear Static	GRA-COOL	0,5
ELS-FREQ-60			Linear Static	PP	1,
ELS-FREQ-60			Linear Static	CM-TUBERIA	1,
ELS-FREQ-60			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-60			Linear Static	SCU	0,
ELS-FREQ-60			Linear Static	VTSSC	0,
ELS-FREQ-60			Linear Static	VTSCSC	0,
ELS-FREQ-60			Linear Static	VV	0,
ELS-FREQ-60	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-60			Linear Static	VLCSC	0,2
ELS-FREQ-60			Linear Static	TU-DIL	0,
ELS-FREQ-60			Linear Static	TU-CON	0,175
ELS-FREQ-60			Linear Static	GRA-HEAT	0,
ELS-FREQ-60			Linear Static	GRA-COOL	0,5
ELS-FREQ-61			Linear Static	PP	1,
ELS-FREQ-61			Linear Static	CM-TUBERIA	1,
ELS-FREQ-61			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-61			Linear Static	SCU	0,
ELS-FREQ-61			Linear Static	VTSSC	0,
ELS-FREQ-61			Linear Static	VTSCSC	0,
ELS-FREQ-61			Linear Static	VV	0,
ELS-FREQ-61			Linear Static	VLSSC	0,
ELS-FREQ-61			Linear Static	VLCSC	0,2
ELS-FREQ-61	Linear Add	No	Linear Static	TU-DIL	0,5
ELS-FREQ-61			Linear Static	TU-CON	0,
ELS-FREQ-61			Linear Static	GRA-HEAT	0,375
ELS-FREQ-61			Linear Static	GRA-COOL	0,
ELS-FREQ-62			Linear Static	PP	1,
ELS-FREQ-62			Linear Static	CM-TUBERIA	1,
ELS-FREQ-62			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-62	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-62			Linear Static	VTSSC	0,
ELS-FREQ-62			Linear Static	VTSCSC	0,
ELS-FREQ-62			Linear Static	VV	0,
ELS-FREQ-62			Linear Static	VLSSC	0,
ELS-FREQ-62			Linear Static	VLCSC	0,2
ELS-FREQ-62			Linear Static	TU-DIL	0,
ELS-FREQ-62			Linear Static	TU-CON	0,5
ELS-FREQ-62			Linear Static	GRA-HEAT	0,375
ELS-FREQ-62			Linear Static	GRA-COOL	0,
ELS-FREQ-63	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-63			Linear Static	CM-TUBERIA	1,
ELS-FREQ-63			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-63			Linear Static	SCU	0,
ELS-FREQ-63			Linear Static	VTSSC	0,
ELS-FREQ-63			Linear Static	VTSCSC	0,
ELS-FREQ-63			Linear Static	VV	0,
ELS-FREQ-63			Linear Static	VLSSC	0,
ELS-FREQ-63			Linear Static	VLCSC	0,2
ELS-FREQ-63			Linear Static	TU-DIL	0,5
ELS-FREQ-63	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-63			Linear Static	GRA-HEAT	0,
ELS-FREQ-63			Linear Static	GRA-COOL	0,375
ELS-FREQ-64			Linear Static	PP	1,
ELS-FREQ-64			Linear Static	CM-TUBERIA	1,
ELS-FREQ-64			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-64			Linear Static	SCU	0,
ELS-FREQ-64			Linear Static	VTSSC	0,
ELS-FREQ-64			Linear Static	VTSCSC	0,
ELS-FREQ-64			Linear Static	VV	0,
ELS-FREQ-64	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-64			Linear Static	VLCSC	0,2
ELS-FREQ-64			Linear Static	TU-DIL	0,
ELS-FREQ-64			Linear Static	TU-CON	0,5
ELS-FREQ-64			Linear Static	GRA-HEAT	0,
ELS-FREQ-64			Linear Static	GRA-COOL	0,375
ELS-FREQ-65			Linear Static	PP	1,
ELS-FREQ-65			Linear Static	CM-TUBERIA	1,
ELS-FREQ-65			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-65			Linear Static	SCU	0,
ELS-FREQ-65	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-65			Linear Static	VTSCSC	0,
ELS-FREQ-65			Linear Static	VV	0,
ELS-FREQ-65			Linear Static	VLSSC	0,
ELS-FREQ-65			Linear Static	VLCSC	0,
ELS-FREQ-65			Linear Static	TU-DIL	0,21
ELS-FREQ-65			Linear Static	TU-CON	0,
ELS-FREQ-65			Linear Static	GRA-HEAT	0,6
ELS-FREQ-65			Linear Static	GRA-COOL	0,
ELS-FREQ-66			Linear Static	PP	1,
ELS-FREQ-66	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-FREQ-66			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-66	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-66			Linear Static	VTSSC	0,
ELS-FREQ-66			Linear Static	VTSCSC	0,
ELS-FREQ-66			Linear Static	VV	0,
ELS-FREQ-66			Linear Static	VLSSC	0,
ELS-FREQ-66			Linear Static	VLCSC	0,
ELS-FREQ-66			Linear Static	TU-DIL	0,
ELS-FREQ-66			Linear Static	TU-CON	0,21
ELS-FREQ-66			Linear Static	GRA-HEAT	0,6
ELS-FREQ-66			Linear Static	GRA-COOL	0,
ELS-FREQ-67			Linear Static	PP	1,
ELS-FREQ-67			Linear Static	CM-TUBERIA	1,
ELS-FREQ-67			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-67	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-67			Linear Static	VTSSC	0,
ELS-FREQ-67			Linear Static	VTSCSC	0,
ELS-FREQ-67			Linear Static	VV	0,
ELS-FREQ-67			Linear Static	VLSSC	0,
ELS-FREQ-67			Linear Static	VLCSC	0,
ELS-FREQ-67			Linear Static	TU-DIL	0,21
ELS-FREQ-67			Linear Static	TU-CON	0,
ELS-FREQ-67			Linear Static	GRA-HEAT	0,
ELS-FREQ-67			Linear Static	GRA-COOL	0,6
ELS-FREQ-68			Linear Static	PP	1,
ELS-FREQ-68			Linear Static	CM-TUBERIA	1,
ELS-FREQ-68			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-68	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-68			Linear Static	VTSSC	0,
ELS-FREQ-68			Linear Static	VTSCSC	0,
ELS-FREQ-68			Linear Static	VV	0,
ELS-FREQ-68			Linear Static	VLSSC	0,
ELS-FREQ-68			Linear Static	VLCSC	0,
ELS-FREQ-68			Linear Static	TU-DIL	0,
ELS-FREQ-68			Linear Static	TU-CON	0,21
ELS-FREQ-68			Linear Static	GRA-HEAT	0,
ELS-FREQ-68			Linear Static	GRA-COOL	0,6
ELS-FREQ-69			Linear Static	PP	1,
ELS-FREQ-69			Linear Static	CM-TUBERIA	1,
ELS-FREQ-69			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-69	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-69			Linear Static	VTSSC	0,
ELS-FREQ-69			Linear Static	VTSCSC	0,
ELS-FREQ-69			Linear Static	VV	0,
ELS-FREQ-69			Linear Static	VLSSC	0,
ELS-FREQ-69			Linear Static	VLCSC	0,
ELS-FREQ-69			Linear Static	TU-DIL	0,6
ELS-FREQ-69			Linear Static	TU-CON	0,
ELS-FREQ-69			Linear Static	GRA-HEAT	0,45
ELS-FREQ-69			Linear Static	GRA-COOL	0,
ELS-FREQ-70			Linear Static	PP	1,
ELS-FREQ-70			Linear Static	CM-TUBERIA	1,
ELS-FREQ-70			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-70	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-70			Linear Static	VTSSC	0,
ELS-FREQ-70			Linear Static	VTSCSC	0,
ELS-FREQ-70			Linear Static	VV	0,
ELS-FREQ-70			Linear Static	VLSSC	0,
ELS-FREQ-70			Linear Static	VLCSC	0,
ELS-FREQ-70			Linear Static	TU-DIL	0,
ELS-FREQ-70			Linear Static	TU-CON	0,6
ELS-FREQ-70			Linear Static	GRA-HEAT	0,45
ELS-FREQ-70			Linear Static	GRA-COOL	0,
ELS-FREQ-71			Linear Static	PP	1,
ELS-FREQ-71			Linear Static	CM-TUBERIA	1,
ELS-FREQ-71			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-71	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-71			Linear Static	VTSSC	0,
ELS-FREQ-71			Linear Static	VTSCSC	0,
ELS-FREQ-71			Linear Static	VV	0,
ELS-FREQ-71			Linear Static	VLSSC	0,
ELS-FREQ-71			Linear Static	VLCSC	0,
ELS-FREQ-71			Linear Static	TU-DIL	0,6
ELS-FREQ-71			Linear Static	TU-CON	0,
ELS-FREQ-71			Linear Static	GRA-HEAT	0,
ELS-FREQ-71			Linear Static	GRA-COOL	0,45
ELS-FREQ-72			Linear Static	PP	1,
ELS-FREQ-72			Linear Static	CM-TUBERIA	1,
ELS-FREQ-72			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-72	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-72			Linear Static	VTSSC	0,
ELS-FREQ-72			Linear Static	VTSCSC	0,
ELS-FREQ-72			Linear Static	VV	0,
ELS-FREQ-72			Linear Static	VLSSC	0,
ELS-FREQ-72			Linear Static	VLCSC	0,
ELS-FREQ-72			Linear Static	TU-DIL	0,
ELS-FREQ-72			Linear Static	TU-CON	0,6
ELS-FREQ-72			Linear Static	GRA-HEAT	0,
ELS-FREQ-72			Linear Static	GRA-COOL	0,45
ELS-CUASI-1			Linear Static	PP	1,
ELS-CUASI-1			Linear Static	CM-TUBERIA	1,
ELS-CUASI-1			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-1	Linear Add	No	Linear Static	SCU	0,
ELS-CUASI-1			Linear Static	VTSSC	0,
ELS-CUASI-1			Linear Static	VTSCSC	0,
ELS-CUASI-1			Linear Static	VV	0,
ELS-CUASI-1			Linear Static	VLSSC	0,
ELS-CUASI-1			Linear Static	VLCSC	0,
ELS-CUASI-1			Linear Static	TU-DIL	0,175
ELS-CUASI-1			Linear Static	TU-CON	0,
ELS-CUASI-1			Linear Static	GRA-HEAT	0,5
ELS-CUASI-1			Linear Static	GRA-COOL	0,
ELS-CUASI-2			Linear Static	PP	1,
ELS-CUASI-2			Linear Static	CM-TUBERIA	1,
ELS-CUASI-2			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CUASI-2	Linear Add	No	Linear Static	SCU	0,
ELS-CUASI-2			Linear Static	VTSSC	0,
ELS-CUASI-2			Linear Static	VTSCSC	0,
ELS-CUASI-2			Linear Static	VV	0,
ELS-CUASI-2			Linear Static	VLSSC	0,
ELS-CUASI-2			Linear Static	VLCSC	0,
ELS-CUASI-2			Linear Static	TU-DIL	0,
ELS-CUASI-2			Linear Static	TU-CON	0,175
ELS-CUASI-2			Linear Static	GRA-HEAT	0,5
ELS-CUASI-2			Linear Static	GRA-COOL	0,
ELS-CUASI-3			Linear Static	PP	1,
ELS-CUASI-3			Linear Static	CM-TUBERIA	1,
ELS-CUASI-3	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CUASI-3			Linear Static	SCU	0,
ELS-CUASI-3			Linear Static	VTSSC	0,
ELS-CUASI-3			Linear Static	VTSCSC	0,
ELS-CUASI-3			Linear Static	VV	0,
ELS-CUASI-3			Linear Static	VLSSC	0,
ELS-CUASI-3			Linear Static	VLCSC	0,
ELS-CUASI-3			Linear Static	TU-DIL	0,175
ELS-CUASI-3			Linear Static	TU-CON	0,
ELS-CUASI-3			Linear Static	GRA-HEAT	0,
ELS-CUASI-3			Linear Static	GRA-COOL	0,5
ELS-CUASI-4			Linear Static	PP	1,
ELS-CUASI-4	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELS-CUASI-4			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CUASI-4			Linear Static	SCU	0,
ELS-CUASI-4			Linear Static	VTSSC	0,
ELS-CUASI-4			Linear Static	VTSCSC	0,
ELS-CUASI-4			Linear Static	VV	0,
ELS-CUASI-4			Linear Static	VLSSC	0,
ELS-CUASI-4			Linear Static	VLCSC	0,
ELS-CUASI-4			Linear Static	TU-DIL	0,
ELS-CUASI-4			Linear Static	TU-CON	0,175
ELS-CUASI-4			Linear Static	GRA-HEAT	0,
ELS-CUASI-4			Linear Static	GRA-COOL	0,5
ELS-CUASI-5	Linear Add	No	Linear Static	PP	1,
ELS-CUASI-5			Linear Static	CM-TUBERIA	1,
ELS-CUASI-5			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CUASI-5			Linear Static	SCU	0,
ELS-CUASI-5			Linear Static	VTSSC	0,
ELS-CUASI-5			Linear Static	VTSCSC	0,
ELS-CUASI-5			Linear Static	VV	0,
ELS-CUASI-5			Linear Static	VLSSC	0,
ELS-CUASI-5			Linear Static	VLCSC	0,
ELS-CUASI-5			Linear Static	TU-DIL	0,5
ELS-CUASI-5			Linear Static	TU-CON	0,
ELS-CUASI-5			Linear Static	GRA-HEAT	0,375
ELS-CUASI-5	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CUASI-6			Linear Static	PP	1,
ELS-CUASI-6			Linear Static	CM-TUBERIA	1,
ELS-CUASI-6			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CUASI-6	Linear Add	No	Linear Static	SCU	0,
ELS-CUASI-6			Linear Static	VTSSC	0,
ELS-CUASI-6			Linear Static	VTSCSC	0,
ELS-CUASI-6			Linear Static	VV	0,
ELS-CUASI-6			Linear Static	VLSSC	0,
ELS-CUASI-6			Linear Static	VLCSC	0,
ELS-CUASI-6			Linear Static	TU-DIL	0,
ELS-CUASI-6			Linear Static	TU-CON	0,5
ELS-CUASI-6			Linear Static	GRA-HEAT	0,375
ELS-CUASI-6			Linear Static	GRA-COOL	0,
ELS-CUASI-7	Linear Add	No	Linear Static	PP	1,
ELS-CUASI-7			Linear Static	CM-TUBERIA	1,
ELS-CUASI-7			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-7			Linear Static	SCU	0,
ELS-CUASI-7			Linear Static	VTSSC	0,
ELS-CUASI-7			Linear Static	VTSCSC	0,
ELS-CUASI-7			Linear Static	VV	0,
ELS-CUASI-7			Linear Static	VLSSC	0,
ELS-CUASI-7			Linear Static	VLCSC	0,
ELS-CUASI-7			Linear Static	TU-DIL	0,5
ELS-CUASI-7	Linear Add	No	Linear Static	TU-CON	0,
ELS-CUASI-7			Linear Static	GRA-HEAT	0,
ELS-CUASI-7			Linear Static	GRA-COOL	0,375
ELS-CUASI-8			Linear Static	PP	1,
ELS-CUASI-8			Linear Static	CM-TUBERIA	1,
ELS-CUASI-8			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-8			Linear Static	SCU	0,
ELS-CUASI-8			Linear Static	VTSSC	0,
ELS-CUASI-8			Linear Static	VTSCSC	0,
ELS-CUASI-8			Linear Static	VV	0,
ELS-CUASI-8	Linear Add	No	Linear Static	VLSSC	0,
ELS-CUASI-8			Linear Static	VLCSC	0,
ELS-CUASI-8			Linear Static	TU-DIL	0,
ELS-CUASI-8			Linear Static	TU-CON	0,5
ELS-CUASI-8			Linear Static	GRA-HEAT	0,
ELS-CUASI-8			Linear Static	GRA-COOL	0,375
ELU-1			Linear Static	PP	1,35
ELU-1			Linear Static	CM-TUBERIA	1,35
ELU-1			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-1			Linear Static	SCU	1,35
ELU-1	Linear Add	No	Linear Static	VTSSC	0,
ELU-1			Linear Static	VTSCSC	0,
ELU-1			Linear Static	VV	0,
ELU-1			Linear Static	VLSSC	0,
ELU-1			Linear Static	VLCSC	0,
ELU-1			Linear Static	TU-DIL	0,315
ELU-1			Linear Static	TU-CON	0,
ELU-1			Linear Static	GRA-HEAT	0,9
ELU-1			Linear Static	GRA-COOL	0,
ELU-2			Linear Static	PP	1,35
ELU-2	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-2			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-2	Linear Add	No	Linear Static	SCU	1,35
ELU-2			Linear Static	VTSSC	0,
ELU-2			Linear Static	VTSCSC	0,
ELU-2			Linear Static	VV	0,
ELU-2			Linear Static	VLSSC	0,
ELU-2			Linear Static	VLCSC	0,
ELU-2			Linear Static	TU-DIL	0,
ELU-2			Linear Static	TU-CON	0,315
ELU-2			Linear Static	GRA-HEAT	0,9
ELU-2			Linear Static	GRA-COOL	0,
ELU-3	Linear Add	No	Linear Static	PP	1,35
ELU-3			Linear Static	CM-TUBERIA	1,35
ELU-3			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-3			Linear Static	SCU	1,35
ELU-3			Linear Static	VTSSC	0,
ELU-3			Linear Static	VTSCSC	0,
ELU-3			Linear Static	VV	0,
ELU-3			Linear Static	VLSSC	0,
ELU-3			Linear Static	VLCSC	0,
ELU-3			Linear Static	TU-DIL	0,315
ELU-3	Linear Add	No	Linear Static	TU-CON	0,
ELU-3			Linear Static	GRA-HEAT	0,
ELU-3			Linear Static	GRA-COOL	0,9
ELU-4			Linear Static	PP	1,35
ELU-4			Linear Static	CM-TUBERIA	1,35
ELU-4			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-4			Linear Static	SCU	1,35
ELU-4			Linear Static	VTSSC	0,
ELU-4			Linear Static	VTSCSC	0,
ELU-4			Linear Static	VV	0,
ELU-4	Linear Add	No	Linear Static	VLSSC	0,
ELU-4			Linear Static	VLCSC	0,
ELU-4			Linear Static	TU-DIL	0,
ELU-4			Linear Static	TU-CON	0,315
ELU-4			Linear Static	GRA-HEAT	0,
ELU-4			Linear Static	GRA-COOL	0,9
ELU-5			Linear Static	PP	1,35
ELU-5			Linear Static	CM-TUBERIA	1,35
ELU-5			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-5			Linear Static	SCU	1,35
ELU-5	Linear Add	No	Linear Static	VTSSC	0,
ELU-5			Linear Static	VTSCSC	0,
ELU-5			Linear Static	VV	0,
ELU-5			Linear Static	VLSSC	0,
ELU-5			Linear Static	VLCSC	0,
ELU-5			Linear Static	TU-DIL	0,9
ELU-5			Linear Static	TU-CON	0,
ELU-5			Linear Static	GRA-HEAT	0,675
ELU-5			Linear Static	GRA-COOL	0,
ELU-6			Linear Static	PP	1,35
ELU-6	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-6			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-6	Linear Add	No	Linear Static	SCU	1,35
ELU-6			Linear Static	VTSSC	0,
ELU-6			Linear Static	VTSCSC	0,
ELU-6			Linear Static	VV	0,
ELU-6			Linear Static	VLSSC	0,
ELU-6			Linear Static	VLCSC	0,
ELU-6			Linear Static	TU-DIL	0,
ELU-6			Linear Static	TU-CON	0,9
ELU-6			Linear Static	GRA-HEAT	0,675
ELU-6			Linear Static	GRA-COOL	0,
ELU-7	Linear Add	No	Linear Static	PP	1,35
ELU-7			Linear Static	CM-TUBERIA	1,35
ELU-7			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-7			Linear Static	SCU	1,35
ELU-7			Linear Static	VTSSC	0,
ELU-7			Linear Static	VTSCSC	0,
ELU-7			Linear Static	VV	0,
ELU-7			Linear Static	VLSSC	0,
ELU-7			Linear Static	VLCSC	0,
ELU-7			Linear Static	TU-DIL	0,9
ELU-7	Linear Add	No	Linear Static	TU-CON	0,
ELU-7			Linear Static	GRA-HEAT	0,
ELU-7			Linear Static	GRA-COOL	0,675
ELU-8			Linear Static	PP	1,35
ELU-8			Linear Static	CM-TUBERIA	1,35
ELU-8			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-8			Linear Static	SCU	1,35
ELU-8			Linear Static	VTSSC	0,
ELU-8			Linear Static	VTSCSC	0,
ELU-8			Linear Static	VV	0,
ELU-8	Linear Add	No	Linear Static	VLSSC	0,
ELU-8			Linear Static	VLCSC	0,
ELU-8			Linear Static	TU-DIL	0,
ELU-8			Linear Static	TU-CON	0,9
ELU-8			Linear Static	GRA-HEAT	0,
ELU-8			Linear Static	GRA-COOL	0,675
ELU-9			Linear Static	PP	1,35
ELU-9			Linear Static	CM-TUBERIA	1,35
ELU-9			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-9			Linear Static	SCU	1,35
ELU-9	Linear Add	No	Linear Static	VTSSC	0,
ELU-9			Linear Static	VTSCSC	0,45
ELU-9			Linear Static	VV	0,
ELU-9			Linear Static	VLSSC	0,
ELU-9			Linear Static	VLCSC	0,
ELU-9			Linear Static	TU-DIL	0,315
ELU-9			Linear Static	TU-CON	0,
ELU-9			Linear Static	GRA-HEAT	0,9
ELU-9			Linear Static	GRA-COOL	0,
ELU-10			Linear Static	PP	1,35
ELU-10	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-10			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-10			Linear Static	SCU	1,35
ELU-10			Linear Static	VTSSC	0,
ELU-10			Linear Static	VTSCSC	0,45
ELU-10			Linear Static	VV	0,
ELU-10			Linear Static	VLSSC	0,
ELU-10			Linear Static	VLCS	0,
ELU-10			Linear Static	TU-DIL	0,
ELU-10			Linear Static	TU-CON	0,315
ELU-10			Linear Static	GRA-HEAT	0,9
ELU-10			Linear Static	GRA-COOL	0,
ELU-11	Linear Add	No	Linear Static	PP	1,35
ELU-11			Linear Static	CM-TUBERIA	1,35
ELU-11			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-11			Linear Static	SCU	1,35
ELU-11			Linear Static	VTSSC	0,
ELU-11			Linear Static	VTSCSC	0,45
ELU-11			Linear Static	VV	0,
ELU-11			Linear Static	VLSSC	0,
ELU-11			Linear Static	VLCS	0,
ELU-11			Linear Static	TU-DIL	0,315
ELU-11			Linear Static	TU-CON	0,
ELU-11			Linear Static	GRA-HEAT	0,
ELU-11			Linear Static	GRA-COOL	0,9
ELU-12	Linear Add	No	Linear Static	PP	1,35
ELU-12			Linear Static	CM-TUBERIA	1,35
ELU-12			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-12			Linear Static	SCU	1,35
ELU-12			Linear Static	VTSSC	0,
ELU-12			Linear Static	VTSCSC	0,45
ELU-12			Linear Static	VV	0,
ELU-12			Linear Static	VLSSC	0,
ELU-12			Linear Static	VLCS	0,
ELU-12			Linear Static	TU-DIL	0,
ELU-12			Linear Static	TU-CON	0,315
ELU-12			Linear Static	GRA-HEAT	0,
ELU-12			Linear Static	GRA-COOL	0,9
ELU-13	Linear Add	No	Linear Static	PP	1,35
ELU-13			Linear Static	CM-TUBERIA	1,35
ELU-13			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-13			Linear Static	SCU	1,35
ELU-13			Linear Static	VTSSC	0,
ELU-13			Linear Static	VTSCSC	0,45
ELU-13			Linear Static	VV	0,
ELU-13			Linear Static	VLSSC	0,
ELU-13			Linear Static	VLCS	0,
ELU-13			Linear Static	TU-DIL	0,9
ELU-13			Linear Static	TU-CON	0,
ELU-13			Linear Static	GRA-HEAT	0,675
ELU-13			Linear Static	GRA-COOL	0,
ELU-14	Linear Add	No	Linear Static	PP	1,35
ELU-14			Linear Static	CM-TUBERIA	1,35
ELU-14			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-14	Linear Add	No	Linear Static	SCU	1,35
ELU-14			Linear Static	VTSSC	0,
ELU-14			Linear Static	VTSCC	0,45
ELU-14			Linear Static	VV	0,
ELU-14			Linear Static	VLSSC	0,
ELU-14			Linear Static	VLCSC	0,
ELU-14			Linear Static	TU-DIL	0,
ELU-14			Linear Static	TU-CON	0,9
ELU-14			Linear Static	GRA-HEAT	0,675
ELU-14			Linear Static	GRA-COOL	0,
ELU-15	Linear Add	No	Linear Static	PP	1,35
ELU-15			Linear Static	CM-TUBERIA	1,35
ELU-15			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-15			Linear Static	SCU	1,35
ELU-15			Linear Static	VTSSC	0,
ELU-15			Linear Static	VTSCC	0,45
ELU-15			Linear Static	VV	0,
ELU-15			Linear Static	VLSSC	0,
ELU-15			Linear Static	VLCSC	0,
ELU-15			Linear Static	TU-DIL	0,9
ELU-15	Linear Add	No	Linear Static	TU-CON	0,
ELU-15			Linear Static	GRA-HEAT	0,
ELU-15			Linear Static	GRA-COOL	0,675
ELU-16			Linear Static	PP	1,35
ELU-16			Linear Static	CM-TUBERIA	1,35
ELU-16			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-16			Linear Static	SCU	1,35
ELU-16			Linear Static	VTSSC	0,
ELU-16			Linear Static	VTSCC	0,45
ELU-16			Linear Static	VV	0,
ELU-16	Linear Add	No	Linear Static	VLSSC	0,
ELU-16			Linear Static	VLCSC	0,
ELU-16			Linear Static	TU-DIL	0,
ELU-16			Linear Static	TU-CON	0,9
ELU-16			Linear Static	GRA-HEAT	0,
ELU-16			Linear Static	GRA-COOL	0,675
ELU-17			Linear Static	PP	1,35
ELU-17			Linear Static	CM-TUBERIA	1,35
ELU-17			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-17			Linear Static	SCU	1,35
ELU-17	Linear Add	No	Linear Static	VTSSC	0,
ELU-17			Linear Static	VTSCC	0,45
ELU-17			Linear Static	VV	0,45
ELU-17			Linear Static	VLSSC	0,
ELU-17			Linear Static	VLCSC	0,
ELU-17			Linear Static	TU-DIL	0,315
ELU-17			Linear Static	TU-CON	0,
ELU-17			Linear Static	GRA-HEAT	0,9
ELU-17			Linear Static	GRA-COOL	0,
ELU-18			Linear Static	PP	1,35
ELU-18	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-18			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-18	Linear Add	No	Linear Static	SCU	1,35
ELU-18			Linear Static	VTSSC	0,
ELU-18			Linear Static	VTSCSC	0,45
ELU-18			Linear Static	VV	0,45
ELU-18			Linear Static	VLSSC	0,
ELU-18			Linear Static	VLCSC	0,
ELU-18			Linear Static	TU-DIL	0,
ELU-18			Linear Static	TU-CON	0,315
ELU-18			Linear Static	GRA-HEAT	0,9
ELU-18			Linear Static	GRA-COOL	0,
ELU-19	Linear Add	No	Linear Static	PP	1,35
ELU-19			Linear Static	CM-TUBERIA	1,35
ELU-19			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-19			Linear Static	SCU	1,35
ELU-19			Linear Static	VTSSC	0,
ELU-19			Linear Static	VTSCSC	0,45
ELU-19			Linear Static	VV	0,45
ELU-19			Linear Static	VLSSC	0,
ELU-19			Linear Static	VLCSC	0,
ELU-19			Linear Static	TU-DIL	0,315
ELU-19	Linear Add	No	Linear Static	TU-CON	0,
ELU-19			Linear Static	GRA-HEAT	0,
ELU-19			Linear Static	GRA-COOL	0,9
ELU-20			Linear Static	PP	1,35
ELU-20			Linear Static	CM-TUBERIA	1,35
ELU-20			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-20			Linear Static	SCU	1,35
ELU-20			Linear Static	VTSSC	0,
ELU-20			Linear Static	VTSCSC	0,45
ELU-20			Linear Static	VV	0,45
ELU-20	Linear Add	No	Linear Static	VLSSC	0,
ELU-20			Linear Static	VLCSC	0,
ELU-20			Linear Static	TU-DIL	0,
ELU-20			Linear Static	TU-CON	0,315
ELU-20			Linear Static	GRA-HEAT	0,
ELU-20			Linear Static	GRA-COOL	0,9
ELU-21			Linear Static	PP	1,35
ELU-21			Linear Static	CM-TUBERIA	1,35
ELU-21			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-21			Linear Static	SCU	1,35
ELU-21	Linear Add	No	Linear Static	VTSSC	0,
ELU-21			Linear Static	VTSCSC	0,45
ELU-21			Linear Static	VV	0,45
ELU-21			Linear Static	VLSSC	0,
ELU-21			Linear Static	VLCSC	0,
ELU-21			Linear Static	TU-DIL	0,9
ELU-21			Linear Static	TU-CON	0,
ELU-21			Linear Static	GRA-HEAT	0,675
ELU-21			Linear Static	GRA-COOL	0,
ELU-22			Linear Static	PP	1,35
ELU-22	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-22			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-22	Linear Add	No	Linear Static	SCU	1,35
ELU-22			Linear Static	VTSSC	0,
ELU-22			Linear Static	VTSCC	0,45
ELU-22			Linear Static	VV	0,45
ELU-22			Linear Static	VLSSC	0,
ELU-22			Linear Static	VLCSC	0,
ELU-22			Linear Static	TU-DIL	0,
ELU-22			Linear Static	TU-CON	0,9
ELU-22			Linear Static	GRA-HEAT	0,675
ELU-22			Linear Static	GRA-COOL	0,
ELU-23			Linear Static	PP	1,35
ELU-23			Linear Static	CM-TUBERIA	1,35
ELU-23	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-23			Linear Static	SCU	1,35
ELU-23			Linear Static	VTSSC	0,
ELU-23			Linear Static	VTSCC	0,45
ELU-23			Linear Static	VV	0,45
ELU-23			Linear Static	VLSSC	0,
ELU-23			Linear Static	VLCSC	0,
ELU-23			Linear Static	TU-DIL	0,9
ELU-23			Linear Static	TU-CON	0,
ELU-23			Linear Static	GRA-HEAT	0,
ELU-23			Linear Static	GRA-COOL	0,675
ELU-24			Linear Static	PP	1,35
ELU-24	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-24			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-24			Linear Static	SCU	1,35
ELU-24			Linear Static	VTSSC	0,
ELU-24			Linear Static	VTSCC	0,45
ELU-24			Linear Static	VV	0,45
ELU-24			Linear Static	VLSSC	0,
ELU-24			Linear Static	VLCSC	0,
ELU-24			Linear Static	TU-DIL	0,
ELU-24			Linear Static	TU-CON	0,9
ELU-24			Linear Static	GRA-HEAT	0,
ELU-24			Linear Static	GRA-COOL	0,675
ELU-25	Linear Add	No	Linear Static	PP	1,35
ELU-25			Linear Static	CM-TUBERIA	1,35
ELU-25			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-25			Linear Static	SCU	0,
ELU-25			Linear Static	VTSSC	0,45
ELU-25			Linear Static	VTSCC	0,
ELU-25			Linear Static	VV	0,
ELU-25			Linear Static	VLSSC	0,
ELU-25			Linear Static	VLCSC	0,
ELU-25			Linear Static	TU-DIL	0,315
ELU-25			Linear Static	TU-CON	0,
ELU-25			Linear Static	GRA-HEAT	0,9
ELU-25	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-26			Linear Static	PP	1,35
ELU-26			Linear Static	CM-TUBERIA	1,35
ELU-26			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-26	Linear Add	No	Linear Static	SCU	0,
ELU-26			Linear Static	VTSSC	0,45
ELU-26			Linear Static	VTSCSC	0,
ELU-26			Linear Static	VV	0,
ELU-26			Linear Static	VLSSC	0,
ELU-26			Linear Static	VLCS	0,
ELU-26			Linear Static	TU-DIL	0,
ELU-26			Linear Static	TU-CON	0,315
ELU-26			Linear Static	GRA-HEAT	0,9
ELU-26			Linear Static	GRA-COOL	0,
ELU-27			Linear Static	PP	1,35
ELU-27			Linear Static	CM-TUBERIA	1,35
ELU-27	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-27			Linear Static	SCU	0,
ELU-27			Linear Static	VTSSC	0,45
ELU-27			Linear Static	VTSCSC	0,
ELU-27			Linear Static	VV	0,
ELU-27			Linear Static	VLSSC	0,
ELU-27			Linear Static	VLCS	0,
ELU-27			Linear Static	TU-DIL	0,315
ELU-27			Linear Static	TU-CON	0,
ELU-27			Linear Static	GRA-HEAT	0,
ELU-27			Linear Static	GRA-COOL	0,9
ELU-28			Linear Static	PP	1,35
ELU-28	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-28			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-28			Linear Static	SCU	0,
ELU-28			Linear Static	VTSSC	0,45
ELU-28			Linear Static	VTSCSC	0,
ELU-28			Linear Static	VV	0,
ELU-28			Linear Static	VLSSC	0,
ELU-28			Linear Static	VLCS	0,
ELU-28			Linear Static	TU-DIL	0,
ELU-28			Linear Static	TU-CON	0,315
ELU-28			Linear Static	GRA-HEAT	0,
ELU-28			Linear Static	GRA-COOL	0,9
ELU-29			Linear Static	PP	1,35
ELU-29	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-29			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-29			Linear Static	SCU	0,
ELU-29			Linear Static	VTSSC	0,45
ELU-29			Linear Static	VTSCSC	0,
ELU-29			Linear Static	VV	0,
ELU-29			Linear Static	VLSSC	0,
ELU-29			Linear Static	VLCS	0,
ELU-29			Linear Static	TU-DIL	0,9
ELU-29			Linear Static	TU-CON	0,
ELU-29			Linear Static	GRA-HEAT	0,675
ELU-29			Linear Static	GRA-COOL	0,
ELU-30			Linear Static	PP	1,35
ELU-30	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-30			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-30	Linear Add	No	Linear Static	SCU	0,
ELU-30			Linear Static	VTSSC	0,45
ELU-30			Linear Static	VTSCSC	0,
ELU-30			Linear Static	VV	0,
ELU-30			Linear Static	VLSSC	0,
ELU-30			Linear Static	VLCSC	0,
ELU-30			Linear Static	TU-DIL	0,
ELU-30			Linear Static	TU-CON	0,9
ELU-30			Linear Static	GRA-HEAT	0,675
ELU-30			Linear Static	GRA-COOL	0,
ELU-31	Linear Add	No	Linear Static	PP	1,35
ELU-31			Linear Static	CM-TUBERIA	1,35
ELU-31			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-31			Linear Static	SCU	0,
ELU-31			Linear Static	VTSSC	0,45
ELU-31			Linear Static	VTSCSC	0,
ELU-31			Linear Static	VV	0,
ELU-31			Linear Static	VLSSC	0,
ELU-31			Linear Static	VLCSC	0,
ELU-31			Linear Static	TU-DIL	0,9
ELU-31	Linear Add	No	Linear Static	TU-CON	0,
ELU-31			Linear Static	GRA-HEAT	0,
ELU-31			Linear Static	GRA-COOL	0,675
ELU-32			Linear Static	PP	1,35
ELU-32			Linear Static	CM-TUBERIA	1,35
ELU-32			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-32			Linear Static	SCU	0,
ELU-32			Linear Static	VTSSC	0,45
ELU-32			Linear Static	VTSCSC	0,
ELU-32			Linear Static	VV	0,
ELU-32	Linear Add	No	Linear Static	VLSSC	0,
ELU-32			Linear Static	VLCSC	0,
ELU-32			Linear Static	TU-DIL	0,
ELU-32			Linear Static	TU-CON	0,9
ELU-32			Linear Static	GRA-HEAT	0,
ELU-32			Linear Static	GRA-COOL	0,675
ELU-33			Linear Static	PP	1,35
ELU-33			Linear Static	CM-TUBERIA	1,35
ELU-33			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-33			Linear Static	SCU	0,
ELU-33	Linear Add	No	Linear Static	VTSSC	0,45
ELU-33			Linear Static	VTSCSC	0,
ELU-33			Linear Static	VV	0,45
ELU-33			Linear Static	VLSSC	0,
ELU-33			Linear Static	VLCSC	0,
ELU-33			Linear Static	TU-DIL	0,315
ELU-33			Linear Static	TU-CON	0,
ELU-33			Linear Static	GRA-HEAT	0,9
ELU-33			Linear Static	GRA-COOL	0,
ELU-34			Linear Static	PP	1,35
ELU-34	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-34			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-34	Linear Add	No	Linear Static	SCU	0,
ELU-34			Linear Static	VTSSC	0,45
ELU-34			Linear Static	VTSCSC	0,
ELU-34			Linear Static	VV	0,45
ELU-34			Linear Static	VLSSC	0,
ELU-34			Linear Static	VLCSC	0,
ELU-34			Linear Static	TU-DIL	0,
ELU-34			Linear Static	TU-CON	0,315
ELU-34			Linear Static	GRA-HEAT	0,9
ELU-34			Linear Static	GRA-COOL	0,
ELU-35			Linear Static	PP	1,35
ELU-35			Linear Static	CM-TUBERIA	1,35
ELU-35	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-35			Linear Static	SCU	0,
ELU-35			Linear Static	VTSSC	0,45
ELU-35			Linear Static	VTSCSC	0,
ELU-35			Linear Static	VV	0,45
ELU-35			Linear Static	VLSSC	0,
ELU-35			Linear Static	VLCSC	0,
ELU-35			Linear Static	TU-DIL	0,315
ELU-35			Linear Static	TU-CON	0,
ELU-35			Linear Static	GRA-HEAT	0,
ELU-35			Linear Static	GRA-COOL	0,9
ELU-36			Linear Static	PP	1,35
ELU-36	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-36			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-36			Linear Static	SCU	0,
ELU-36			Linear Static	VTSSC	0,45
ELU-36			Linear Static	VTSCSC	0,
ELU-36			Linear Static	VV	0,45
ELU-36			Linear Static	VLSSC	0,
ELU-36			Linear Static	VLCSC	0,
ELU-36			Linear Static	TU-DIL	0,
ELU-36			Linear Static	TU-CON	0,315
ELU-36			Linear Static	GRA-HEAT	0,
ELU-36			Linear Static	GRA-COOL	0,9
ELU-37	Linear Add	No	Linear Static	PP	1,35
ELU-37			Linear Static	CM-TUBERIA	1,35
ELU-37			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-37			Linear Static	SCU	0,
ELU-37			Linear Static	VTSSC	0,45
ELU-37			Linear Static	VTSCSC	0,
ELU-37			Linear Static	VV	0,45
ELU-37			Linear Static	VLSSC	0,
ELU-37			Linear Static	VLCSC	0,
ELU-37			Linear Static	TU-DIL	0,9
ELU-37			Linear Static	TU-CON	0,
ELU-37			Linear Static	GRA-HEAT	0,675
ELU-37	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-38			Linear Static	PP	1,35
ELU-38			Linear Static	CM-TUBERIA	1,35
ELU-38			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-38	Linear Add	No	Linear Static	SCU	0,
ELU-38			Linear Static	VTSSC	0,45
ELU-38			Linear Static	VTSCSC	0,
ELU-38			Linear Static	VV	0,45
ELU-38			Linear Static	VLSSC	0,
ELU-38			Linear Static	VLCSC	0,
ELU-38			Linear Static	TU-DIL	0,
ELU-38			Linear Static	TU-CON	0,9
ELU-38			Linear Static	GRA-HEAT	0,675
ELU-38			Linear Static	GRA-COOL	0,
ELU-39	Linear Add	No	Linear Static	PP	1,35
ELU-39			Linear Static	CM-TUBERIA	1,35
ELU-39			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-39			Linear Static	SCU	0,
ELU-39			Linear Static	VTSSC	0,45
ELU-39			Linear Static	VTSCSC	0,
ELU-39			Linear Static	VV	0,45
ELU-39			Linear Static	VLSSC	0,
ELU-39			Linear Static	VLCSC	0,
ELU-39			Linear Static	TU-DIL	0,9
ELU-39	Linear Add	No	Linear Static	TU-CON	0,
ELU-39			Linear Static	GRA-HEAT	0,
ELU-39			Linear Static	GRA-COOL	0,675
ELU-40			Linear Static	PP	1,35
ELU-40			Linear Static	CM-TUBERIA	1,35
ELU-40			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-40			Linear Static	SCU	0,
ELU-40			Linear Static	VTSSC	0,45
ELU-40			Linear Static	VTSCSC	0,
ELU-40			Linear Static	VV	0,45
ELU-40	Linear Add	No	Linear Static	VLSSC	0,
ELU-40			Linear Static	VLCSC	0,
ELU-40			Linear Static	TU-DIL	0,
ELU-40			Linear Static	TU-CON	0,9
ELU-40			Linear Static	GRA-HEAT	0,
ELU-40			Linear Static	GRA-COOL	0,675
ELU-41			Linear Static	PP	1,35
ELU-41			Linear Static	CM-TUBERIA	1,35
ELU-41			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-41			Linear Static	SCU	0,
ELU-41	Linear Add	No	Linear Static	VTSSC	0,
ELU-41			Linear Static	VTSCSC	0,
ELU-41			Linear Static	VV	0,
ELU-41			Linear Static	VLSSC	0,45
ELU-41			Linear Static	VLCSC	0,
ELU-41			Linear Static	TU-DIL	0,315
ELU-41			Linear Static	TU-CON	0,
ELU-41			Linear Static	GRA-HEAT	0,9
ELU-41			Linear Static	GRA-COOL	0,
ELU-42			Linear Static	PP	1,35
ELU-42	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-42			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-42	Linear Add	No	Linear Static	SCU	0,
ELU-42			Linear Static	VTSSC	0,
ELU-42			Linear Static	VTSCSC	0,
ELU-42			Linear Static	VV	0,
ELU-42			Linear Static	VLSSC	0,45
ELU-42			Linear Static	VLCS	0,
ELU-42			Linear Static	TU-DIL	0,
ELU-42			Linear Static	TU-CON	0,315
ELU-42			Linear Static	GRA-HEAT	0,9
ELU-42			Linear Static	GRA-COOL	0,
ELU-43	Linear Add	No	Linear Static	PP	1,35
ELU-43			Linear Static	CM-TUBERIA	1,35
ELU-43			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-43			Linear Static	SCU	0,
ELU-43			Linear Static	VTSSC	0,
ELU-43			Linear Static	VTSCSC	0,
ELU-43			Linear Static	VV	0,
ELU-43			Linear Static	VLSSC	0,45
ELU-43			Linear Static	VLCS	0,
ELU-43			Linear Static	TU-DIL	0,315
ELU-43	Linear Add	No	Linear Static	TU-CON	0,
ELU-43			Linear Static	GRA-HEAT	0,
ELU-43			Linear Static	GRA-COOL	0,9
ELU-44			Linear Static	PP	1,35
ELU-44			Linear Static	CM-TUBERIA	1,35
ELU-44			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-44			Linear Static	SCU	0,
ELU-44			Linear Static	VTSSC	0,
ELU-44			Linear Static	VTSCSC	0,
ELU-44			Linear Static	VV	0,
ELU-44	Linear Add	No	Linear Static	VLSSC	0,45
ELU-44			Linear Static	VLCS	0,
ELU-44			Linear Static	TU-DIL	0,
ELU-44			Linear Static	TU-CON	0,315
ELU-44			Linear Static	GRA-HEAT	0,
ELU-44			Linear Static	GRA-COOL	0,9
ELU-45			Linear Static	PP	1,35
ELU-45			Linear Static	CM-TUBERIA	1,35
ELU-45			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-45			Linear Static	SCU	0,
ELU-45	Linear Add	No	Linear Static	VTSSC	0,
ELU-45			Linear Static	VTSCSC	0,
ELU-45			Linear Static	VV	0,
ELU-45			Linear Static	VLSSC	0,45
ELU-45			Linear Static	VLCS	0,
ELU-45			Linear Static	TU-DIL	0,9
ELU-45			Linear Static	TU-CON	0,
ELU-45			Linear Static	GRA-HEAT	0,675
ELU-45			Linear Static	GRA-COOL	0,
ELU-46			Linear Static	PP	1,35
ELU-46	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-46			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-46	Linear Add	No	Linear Static	SCU	0,
ELU-46			Linear Static	VTSSC	0,
ELU-46			Linear Static	VTSCC	0,
ELU-46			Linear Static	VV	0,
ELU-46			Linear Static	VLSSC	0,45
ELU-46			Linear Static	VLCSC	0,
ELU-46			Linear Static	TU-DIL	0,
ELU-46			Linear Static	TU-CON	0,9
ELU-46			Linear Static	GRA-HEAT	0,675
ELU-46			Linear Static	GRA-COOL	0,
ELU-47			Linear Static	PP	1,35
ELU-47			Linear Static	CM-TUBERIA	1,35
ELU-47	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-47			Linear Static	SCU	0,
ELU-47			Linear Static	VTSSC	0,
ELU-47			Linear Static	VTSCC	0,
ELU-47			Linear Static	VV	0,
ELU-47			Linear Static	VLSSC	0,45
ELU-47			Linear Static	VLCSC	0,
ELU-47			Linear Static	TU-DIL	0,9
ELU-47			Linear Static	TU-CON	0,
ELU-47			Linear Static	GRA-HEAT	0,
ELU-47			Linear Static	GRA-COOL	0,675
ELU-48			Linear Static	PP	1,35
ELU-48	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-48			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-48			Linear Static	SCU	0,
ELU-48			Linear Static	VTSSC	0,
ELU-48			Linear Static	VTSCC	0,
ELU-48			Linear Static	VV	0,
ELU-48			Linear Static	VLSSC	0,45
ELU-48			Linear Static	VLCSC	0,
ELU-48			Linear Static	TU-DIL	0,
ELU-48			Linear Static	TU-CON	0,9
ELU-48			Linear Static	GRA-HEAT	0,
ELU-48			Linear Static	GRA-COOL	0,675
ELU-49	Linear Add	No	Linear Static	PP	1,35
ELU-49			Linear Static	CM-TUBERIA	1,35
ELU-49			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-49			Linear Static	SCU	1,35
ELU-49			Linear Static	VTSSC	0,
ELU-49			Linear Static	VTSCC	0,
ELU-49			Linear Static	VV	0,
ELU-49			Linear Static	VLSSC	0,
ELU-49			Linear Static	VLCSC	0,45
ELU-49			Linear Static	TU-DIL	0,315
ELU-49			Linear Static	TU-CON	0,
ELU-49			Linear Static	GRA-HEAT	0,9
ELU-49	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-50			Linear Static	PP	1,35
ELU-50			Linear Static	CM-TUBERIA	1,35
ELU-50			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-50			Linear Static	SCU	1,35
ELU-50			Linear Static	VTSSC	0,
ELU-50			Linear Static	VTSCSC	0,
ELU-50			Linear Static	VV	0,
ELU-50			Linear Static	VLSSC	0,
ELU-50			Linear Static	VLCS	0,45
ELU-50			Linear Static	TU-DIL	0,
ELU-50			Linear Static	TU-CON	0,315
ELU-50			Linear Static	GRA-HEAT	0,9
ELU-50			Linear Static	GRA-COOL	0,
ELU-51	Linear Add	No	Linear Static	PP	1,35
ELU-51			Linear Static	CM-TUBERIA	1,35
ELU-51			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-51			Linear Static	SCU	1,35
ELU-51			Linear Static	VTSSC	0,
ELU-51			Linear Static	VTSCSC	0,
ELU-51			Linear Static	VV	0,
ELU-51			Linear Static	VLSSC	0,
ELU-51			Linear Static	VLCS	0,45
ELU-51			Linear Static	TU-DIL	0,315
ELU-51			Linear Static	TU-CON	0,
ELU-51			Linear Static	GRA-HEAT	0,
ELU-51			Linear Static	GRA-COOL	0,9
ELU-52	Linear Add	No	Linear Static	PP	1,35
ELU-52			Linear Static	CM-TUBERIA	1,35
ELU-52			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-52			Linear Static	SCU	1,35
ELU-52			Linear Static	VTSSC	0,
ELU-52			Linear Static	VTSCSC	0,
ELU-52			Linear Static	VV	0,
ELU-52			Linear Static	VLSSC	0,
ELU-52			Linear Static	VLCS	0,45
ELU-52			Linear Static	TU-DIL	0,
ELU-52			Linear Static	TU-CON	0,315
ELU-52			Linear Static	GRA-HEAT	0,
ELU-52			Linear Static	GRA-COOL	0,9
ELU-53	Linear Add	No	Linear Static	PP	1,35
ELU-53			Linear Static	CM-TUBERIA	1,35
ELU-53			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-53			Linear Static	SCU	1,35
ELU-53			Linear Static	VTSSC	0,
ELU-53			Linear Static	VTSCSC	0,
ELU-53			Linear Static	VV	0,
ELU-53			Linear Static	VLSSC	0,
ELU-53			Linear Static	VLCS	0,45
ELU-53			Linear Static	TU-DIL	0,9
ELU-53			Linear Static	TU-CON	0,
ELU-53			Linear Static	GRA-HEAT	0,675
ELU-53			Linear Static	GRA-COOL	0,
ELU-54	Linear Add	No	Linear Static	PP	1,35
ELU-54			Linear Static	CM-TUBERIA	1,35
ELU-54			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-54	Linear Add	No	Linear Static	SCU	1,35
ELU-54			Linear Static	VTSSC	0,
ELU-54			Linear Static	VTSCSC	0,
ELU-54			Linear Static	VV	0,
ELU-54			Linear Static	VLSSC	0,
ELU-54			Linear Static	VLCSC	0,45
ELU-54			Linear Static	TU-DIL	0,
ELU-54			Linear Static	TU-CON	0,9
ELU-54			Linear Static	GRA-HEAT	0,675
ELU-54			Linear Static	GRA-COOL	0,
ELU-55	Linear Add	No	Linear Static	PP	1,35
ELU-55			Linear Static	CM-TUBERIA	1,35
ELU-55			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-55			Linear Static	SCU	1,35
ELU-55			Linear Static	VTSSC	0,
ELU-55			Linear Static	VTSCSC	0,
ELU-55			Linear Static	VV	0,
ELU-55			Linear Static	VLSSC	0,
ELU-55			Linear Static	VLCSC	0,45
ELU-55			Linear Static	TU-DIL	0,9
ELU-55	Linear Add	No	Linear Static	TU-CON	0,
ELU-55			Linear Static	GRA-HEAT	0,
ELU-55			Linear Static	GRA-COOL	0,675
ELU-56			Linear Static	PP	1,35
ELU-56			Linear Static	CM-TUBERIA	1,35
ELU-56			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-56			Linear Static	SCU	1,35
ELU-56			Linear Static	VTSSC	0,
ELU-56			Linear Static	VTSCSC	0,
ELU-56			Linear Static	VV	0,
ELU-56	Linear Add	No	Linear Static	VLSSC	0,
ELU-56			Linear Static	VLCSC	0,45
ELU-56			Linear Static	TU-DIL	0,
ELU-56			Linear Static	TU-CON	0,9
ELU-56			Linear Static	GRA-HEAT	0,
ELU-56			Linear Static	GRA-COOL	0,675
ELU-57			Linear Static	PP	1,
ELU-57			Linear Static	CM-TUBERIA	1,
ELU-57			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-57			Linear Static	SCU	1,35
ELU-57	Linear Add	No	Linear Static	VTSSC	0,
ELU-57			Linear Static	VTSCSC	0,
ELU-57			Linear Static	VV	0,
ELU-57			Linear Static	VLSSC	0,
ELU-57			Linear Static	VLCSC	0,
ELU-57			Linear Static	TU-DIL	0,315
ELU-57			Linear Static	TU-CON	0,
ELU-57			Linear Static	GRA-HEAT	0,9
ELU-57			Linear Static	GRA-COOL	0,
ELU-58			Linear Static	PP	1,
ELU-58	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-58			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-58	Linear Add	No	Linear Static	SCU	1,35
ELU-58			Linear Static	VTSSC	0,
ELU-58			Linear Static	VTSCSC	0,
ELU-58			Linear Static	VV	0,
ELU-58			Linear Static	VLSSC	0,
ELU-58			Linear Static	VLCSC	0,
ELU-58			Linear Static	TU-DIL	0,
ELU-58			Linear Static	TU-CON	0,315
ELU-58			Linear Static	GRA-HEAT	0,9
ELU-58			Linear Static	GRA-COOL	0,
ELU-59			Linear Static	PP	1,
ELU-59			Linear Static	CM-TUBERIA	1,
ELU-59			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-59			Linear Static	SCU	1,35
ELU-59			Linear Static	VTSSC	0,
ELU-59			Linear Static	VTSCSC	0,
ELU-59			Linear Static	VV	0,
ELU-59			Linear Static	VLSSC	0,
ELU-59			Linear Static	VLCSC	0,
ELU-59			Linear Static	TU-DIL	0,315
ELU-59			Linear Static	TU-CON	0,
ELU-59			Linear Static	GRA-HEAT	0,
ELU-59			Linear Static	GRA-COOL	0,9
ELU-60	Linear Add	No	Linear Static	PP	1,
ELU-60			Linear Static	CM-TUBERIA	1,
ELU-60			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-60			Linear Static	SCU	1,35
ELU-60			Linear Static	VTSSC	0,
ELU-60			Linear Static	VTSCSC	0,
ELU-60			Linear Static	VV	0,
ELU-60			Linear Static	VLSSC	0,
ELU-60			Linear Static	VLCSC	0,
ELU-60			Linear Static	TU-DIL	0,
ELU-60			Linear Static	TU-CON	0,315
ELU-60			Linear Static	GRA-HEAT	0,
ELU-60			Linear Static	GRA-COOL	0,9
ELU-61			Linear Static	PP	1,
ELU-61			Linear Static	CM-TUBERIA	1,
ELU-61			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-61			Linear Static	SCU	1,35
ELU-61			Linear Static	VTSSC	0,
ELU-61			Linear Static	VTSCSC	0,
ELU-61			Linear Static	VV	0,
ELU-61			Linear Static	VLSSC	0,
ELU-61			Linear Static	VLCSC	0,
ELU-61			Linear Static	TU-DIL	0,9
ELU-61			Linear Static	TU-CON	0,
ELU-61			Linear Static	GRA-HEAT	0,675
ELU-61			Linear Static	GRA-COOL	0,
ELU-62	Linear Add	No	Linear Static	PP	1,
ELU-62			Linear Static	CM-TUBERIA	1,
ELU-62			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-62	Linear Add	No	Linear Static	SCU	1,35
ELU-62			Linear Static	VTSSC	0,
ELU-62			Linear Static	VTSCSC	0,
ELU-62			Linear Static	VV	0,
ELU-62			Linear Static	VLSSC	0,
ELU-62			Linear Static	VLCSC	0,
ELU-62			Linear Static	TU-DIL	0,
ELU-62			Linear Static	TU-CON	0,9
ELU-62			Linear Static	GRA-HEAT	0,675
ELU-62			Linear Static	GRA-COOL	0,
ELU-63			Linear Static	PP	1,
ELU-63			Linear Static	CM-TUBERIA	1,
ELU-63	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELU-63			Linear Static	SCU	1,35
ELU-63			Linear Static	VTSSC	0,
ELU-63			Linear Static	VTSCSC	0,
ELU-63			Linear Static	VV	0,
ELU-63			Linear Static	VLSSC	0,
ELU-63			Linear Static	VLCSC	0,
ELU-63			Linear Static	TU-DIL	0,9
ELU-63			Linear Static	TU-CON	0,
ELU-63			Linear Static	GRA-HEAT	0,
ELU-63			Linear Static	GRA-COOL	0,675
ELU-64			Linear Static	PP	1,
ELU-64	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-64			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-64			Linear Static	SCU	1,35
ELU-64			Linear Static	VTSSC	0,
ELU-64			Linear Static	VTSCSC	0,
ELU-64			Linear Static	VV	0,
ELU-64			Linear Static	VLSSC	0,
ELU-64			Linear Static	VLCSC	0,
ELU-64			Linear Static	TU-DIL	0,
ELU-64			Linear Static	TU-CON	0,9
ELU-64			Linear Static	GRA-HEAT	0,
ELU-64			Linear Static	GRA-COOL	0,675
ELU-65	Linear Add	No	Linear Static	PP	1,
ELU-65			Linear Static	CM-TUBERIA	1,
ELU-65			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-65			Linear Static	SCU	1,35
ELU-65			Linear Static	VTSSC	0,
ELU-65			Linear Static	VTSCSC	0,45
ELU-65			Linear Static	VV	0,
ELU-65			Linear Static	VLSSC	0,
ELU-65			Linear Static	VLCSC	0,
ELU-65			Linear Static	TU-DIL	0,315
ELU-65			Linear Static	TU-CON	0,
ELU-65			Linear Static	GRA-HEAT	0,9
ELU-65	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-66			Linear Static	PP	1,
ELU-66			Linear Static	CM-TUBERIA	1,
ELU-66			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-66	Linear Add	No	Linear Static	SCU	1,35
ELU-66			Linear Static	VTSSC	0,
ELU-66			Linear Static	VTCSC	0,45
ELU-66			Linear Static	VV	0,
ELU-66			Linear Static	VLSSC	0,
ELU-66			Linear Static	VLCSC	0,
ELU-66			Linear Static	TU-DIL	0,
ELU-66			Linear Static	TU-CON	0,315
ELU-66			Linear Static	GRA-HEAT	0,9
ELU-66			Linear Static	GRA-COOL	0,
ELU-67			Linear Static	PP	1,
ELU-67			Linear Static	CM-TUBERIA	1,
ELU-67			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-67			Linear Static	SCU	1,35
ELU-67			Linear Static	VTSSC	0,
ELU-67	Linear Add	No	Linear Static	VTCSC	0,45
ELU-67			Linear Static	VV	0,
ELU-67			Linear Static	VLSSC	0,
ELU-67			Linear Static	VLCSC	0,
ELU-67			Linear Static	TU-DIL	0,315
ELU-67			Linear Static	TU-CON	0,
ELU-67			Linear Static	GRA-HEAT	0,
ELU-67			Linear Static	GRA-COOL	0,9
ELU-68			Linear Static	PP	1,
ELU-68			Linear Static	CM-TUBERIA	1,
ELU-68			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-68			Linear Static	SCU	1,35
ELU-68			Linear Static	VTSSC	0,
ELU-68			Linear Static	VTCSC	0,45
ELU-68	Linear Add	No	Linear Static	VV	0,
ELU-68			Linear Static	VLSSC	0,
ELU-68			Linear Static	VLCSC	0,
ELU-68			Linear Static	TU-DIL	0,
ELU-68			Linear Static	TU-CON	0,315
ELU-68			Linear Static	GRA-HEAT	0,
ELU-68			Linear Static	GRA-COOL	0,9
ELU-69			Linear Static	PP	1,
ELU-69			Linear Static	CM-TUBERIA	1,
ELU-69			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-69			Linear Static	SCU	1,35
ELU-69			Linear Static	VTSSC	0,
ELU-69			Linear Static	VTCSC	0,45
ELU-69			Linear Static	VV	0,
ELU-69	Linear Add	No	Linear Static	VLSSC	0,
ELU-69			Linear Static	VLCSC	0,
ELU-69			Linear Static	TU-DIL	0,9
ELU-69			Linear Static	TU-CON	0,
ELU-69			Linear Static	GRA-HEAT	0,675
ELU-69			Linear Static	GRA-COOL	0,
ELU-70			Linear Static	PP	1,
ELU-70			Linear Static	CM-TUBERIA	1,
ELU-70			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-70	Linear Add	No	Linear Static	SCU	1,35
ELU-70			Linear Static	VTSSC	0,
ELU-70			Linear Static	VTSCSC	0,45
ELU-70			Linear Static	VV	0,
ELU-70			Linear Static	VLSSC	0,
ELU-70			Linear Static	VLCSC	0,
ELU-70			Linear Static	TU-DIL	0,
ELU-70			Linear Static	TU-CON	0,9
ELU-70			Linear Static	GRA-HEAT	0,675
ELU-70			Linear Static	GRA-COOL	0,
ELU-71			Linear Static	PP	1,
ELU-71			Linear Static	CM-TUBERIA	1,
ELU-71			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-71			Linear Static	SCU	1,35
ELU-71			Linear Static	VTSSC	0,
ELU-71	Linear Add	No	Linear Static	VTSCSC	0,45
ELU-71			Linear Static	VV	0,
ELU-71			Linear Static	VLSSC	0,
ELU-71			Linear Static	VLCSC	0,
ELU-71			Linear Static	TU-DIL	0,9
ELU-71			Linear Static	TU-CON	0,
ELU-71			Linear Static	GRA-HEAT	0,
ELU-71			Linear Static	GRA-COOL	0,675
ELU-72			Linear Static	PP	1,
ELU-72			Linear Static	CM-TUBERIA	1,
ELU-72			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-72			Linear Static	SCU	1,35
ELU-72			Linear Static	VTSSC	0,
ELU-72			Linear Static	VTSCSC	0,45
ELU-72			Linear Static	VV	0,
ELU-72	Linear Add	No	Linear Static	VLSSC	0,
ELU-72			Linear Static	VLCSC	0,
ELU-72			Linear Static	TU-DIL	0,
ELU-72			Linear Static	TU-CON	0,9
ELU-72			Linear Static	GRA-HEAT	0,
ELU-72			Linear Static	GRA-COOL	0,675
ELU-73			Linear Static	PP	1,
ELU-73			Linear Static	CM-TUBERIA	1,
ELU-73			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-73			Linear Static	SCU	1,35
ELU-73			Linear Static	VTSSC	0,
ELU-73			Linear Static	VTSCSC	0,45
ELU-73			Linear Static	VV	0,45
ELU-73			Linear Static	VLSSC	0,
ELU-73			Linear Static	VLCSC	0,
ELU-73	Linear Add	No	Linear Static	TU-DIL	0,315
ELU-73			Linear Static	TU-CON	0,
ELU-73			Linear Static	GRA-HEAT	0,9
ELU-73			Linear Static	GRA-COOL	0,
ELU-74			Linear Static	PP	1,
ELU-74			Linear Static	CM-TUBERIA	1,
ELU-74			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-74	Linear Add	No	Linear Static	SCU	1,35
ELU-74			Linear Static	VTSSC	0,
ELU-74			Linear Static	VTSCSC	0,45
ELU-74			Linear Static	VV	0,45
ELU-74			Linear Static	VLSSC	0,
ELU-74			Linear Static	VLCS	0,
ELU-74			Linear Static	TU-DIL	0,
ELU-74			Linear Static	TU-CON	0,315
ELU-74			Linear Static	GRA-HEAT	0,9
ELU-74			Linear Static	GRA-COOL	0,
ELU-75			Linear Static	PP	1,
ELU-75			Linear Static	CM-TUBERIA	1,
ELU-75	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,
ELU-75			Linear Static	SCU	1,35
ELU-75			Linear Static	VTSSC	0,
ELU-75			Linear Static	VTSCSC	0,45
ELU-75			Linear Static	VV	0,45
ELU-75			Linear Static	VLSSC	0,
ELU-75			Linear Static	VLCS	0,
ELU-75			Linear Static	TU-DIL	0,315
ELU-75			Linear Static	TU-CON	0,
ELU-75			Linear Static	GRA-HEAT	0,
ELU-75			Linear Static	GRA-COOL	0,9
ELU-76			Linear Static	PP	1,
ELU-76	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-76			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-76			Linear Static	SCU	1,35
ELU-76			Linear Static	VTSSC	0,
ELU-76			Linear Static	VTSCSC	0,45
ELU-76			Linear Static	VV	0,45
ELU-76			Linear Static	VLSSC	0,
ELU-76			Linear Static	VLCS	0,
ELU-76			Linear Static	TU-DIL	0,
ELU-76			Linear Static	TU-CON	0,315
ELU-76			Linear Static	GRA-HEAT	0,
ELU-76			Linear Static	GRA-COOL	0,9
ELU-77			Linear Static	PP	1,
ELU-77	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-77			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-77			Linear Static	SCU	1,35
ELU-77			Linear Static	VTSSC	0,
ELU-77			Linear Static	VTSCSC	0,45
ELU-77			Linear Static	VV	0,45
ELU-77			Linear Static	VLSSC	0,
ELU-77			Linear Static	VLCS	0,
ELU-77			Linear Static	TU-DIL	0,9
ELU-77			Linear Static	TU-CON	0,
ELU-77			Linear Static	GRA-HEAT	0,675
ELU-77			Linear Static	GRA-COOL	0,
ELU-78			Linear Static	PP	1,
ELU-78	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-78			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-78	Linear Add	No	Linear Static	SCU	1,35
ELU-78			Linear Static	VTSSC	0,
ELU-78			Linear Static	VTSCSC	0,45
ELU-78			Linear Static	VV	0,45
ELU-78			Linear Static	VLSSC	0,
ELU-78			Linear Static	VLCSC	0,
ELU-78			Linear Static	TU-DIL	0,
ELU-78			Linear Static	TU-CON	0,9
ELU-78			Linear Static	GRA-HEAT	0,675
ELU-78			Linear Static	GRA-COOL	0,
ELU-79			Linear Static	PP	1,
ELU-79			Linear Static	CM-TUBERIA	1,
ELU-79	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELU-79			Linear Static	SCU	1,35
ELU-79			Linear Static	VTSSC	0,
ELU-79			Linear Static	VTSCSC	0,45
ELU-79			Linear Static	VV	0,45
ELU-79			Linear Static	VLSSC	0,
ELU-79			Linear Static	VLCSC	0,
ELU-79			Linear Static	TU-DIL	0,9
ELU-79			Linear Static	TU-CON	0,
ELU-79			Linear Static	GRA-HEAT	0,
ELU-79			Linear Static	GRA-COOL	0,675
ELU-80			Linear Static	PP	1,
ELU-80	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-80			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-80			Linear Static	SCU	1,35
ELU-80			Linear Static	VTSSC	0,
ELU-80			Linear Static	VTSCSC	0,45
ELU-80			Linear Static	VV	0,45
ELU-80			Linear Static	VLSSC	0,
ELU-80			Linear Static	VLCSC	0,
ELU-80			Linear Static	TU-DIL	0,
ELU-80			Linear Static	TU-CON	0,9
ELU-80			Linear Static	GRA-HEAT	0,
ELU-80			Linear Static	GRA-COOL	0,675
ELU-81	Linear Add	No	Linear Static	PP	1,
ELU-81			Linear Static	CM-TUBERIA	1,
ELU-81			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-81			Linear Static	SCU	0,
ELU-81			Linear Static	VTSSC	0,45
ELU-81			Linear Static	VTSCSC	0,
ELU-81			Linear Static	VV	0,
ELU-81			Linear Static	VLSSC	0,
ELU-81			Linear Static	VLCSC	0,
ELU-81			Linear Static	TU-DIL	0,315
ELU-81			Linear Static	TU-CON	0,
ELU-81			Linear Static	GRA-HEAT	0,9
ELU-81	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-82			Linear Static	PP	1,
ELU-82			Linear Static	CM-TUBERIA	1,
ELU-82			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-82	Linear Add	No	Linear Static	SCU	0,
ELU-82			Linear Static	VTSSC	0,45
ELU-82			Linear Static	VTSCSC	0,
ELU-82			Linear Static	VV	0,
ELU-82			Linear Static	VLSSC	0,
ELU-82			Linear Static	VLCS	0,
ELU-82			Linear Static	TU-DIL	0,
ELU-82			Linear Static	TU-CON	0,315
ELU-82			Linear Static	GRA-HEAT	0,9
ELU-82			Linear Static	GRA-COOL	0,
ELU-83			Linear Static	PP	1,
ELU-83			Linear Static	CM-TUBERIA	1,
ELU-83	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,
ELU-83			Linear Static	SCU	0,
ELU-83			Linear Static	VTSSC	0,45
ELU-83			Linear Static	VTSCSC	0,
ELU-83			Linear Static	VV	0,
ELU-83			Linear Static	VLSSC	0,
ELU-83			Linear Static	VLCS	0,
ELU-83			Linear Static	TU-DIL	0,315
ELU-83			Linear Static	TU-CON	0,
ELU-83			Linear Static	GRA-HEAT	0,
ELU-83			Linear Static	GRA-COOL	0,9
ELU-84			Linear Static	PP	1,
ELU-84	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-84			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-84			Linear Static	SCU	0,
ELU-84			Linear Static	VTSSC	0,45
ELU-84			Linear Static	VTSCSC	0,
ELU-84			Linear Static	VV	0,
ELU-84			Linear Static	VLSSC	0,
ELU-84			Linear Static	VLCS	0,
ELU-84			Linear Static	TU-DIL	0,
ELU-84			Linear Static	TU-CON	0,315
ELU-84			Linear Static	GRA-HEAT	0,
ELU-84			Linear Static	GRA-COOL	0,9
ELU-85	Linear Add	No	Linear Static	PP	1,
ELU-85			Linear Static	CM-TUBERIA	1,
ELU-85			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-85			Linear Static	SCU	0,
ELU-85			Linear Static	VTSSC	0,45
ELU-85			Linear Static	VTSCSC	0,
ELU-85			Linear Static	VV	0,
ELU-85			Linear Static	VLSSC	0,
ELU-85			Linear Static	VLCS	0,
ELU-85			Linear Static	TU-DIL	0,9
ELU-85			Linear Static	TU-CON	0,
ELU-85			Linear Static	GRA-HEAT	0,675
ELU-85	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-86			Linear Static	PP	1,
ELU-86			Linear Static	CM-TUBERIA	1,
ELU-86	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,
ELU-86			Linear Static	SCU	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-86	Linear Add	No	Linear Static	SCU	0,
ELU-86			Linear Static	VTSSC	0,45
ELU-86			Linear Static	VTSCSC	0,
ELU-86			Linear Static	VV	0,
ELU-86			Linear Static	VLSSC	0,
ELU-86			Linear Static	VLCSC	0,
ELU-86			Linear Static	TU-DIL	0,
ELU-86			Linear Static	TU-CON	0,9
ELU-86			Linear Static	GRA-HEAT	0,675
ELU-86			Linear Static	GRA-COOL	0,
ELU-87			Linear Static	PP	1,
ELU-87			Linear Static	CM-TUBERIA	1,
ELU-87			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-87			Linear Static	SCU	0,
ELU-87			Linear Static	VTSSC	0,45
ELU-87	Linear Add	No	Linear Static	VTSCSC	0,
ELU-87			Linear Static	VV	0,
ELU-87			Linear Static	VLSSC	0,
ELU-87			Linear Static	VLCSC	0,
ELU-87			Linear Static	TU-DIL	0,9
ELU-87			Linear Static	TU-CON	0,
ELU-87			Linear Static	GRA-HEAT	0,
ELU-87			Linear Static	GRA-COOL	0,675
ELU-88			Linear Static	PP	1,
ELU-88			Linear Static	CM-TUBERIA	1,
ELU-88			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-88			Linear Static	SCU	0,
ELU-88			Linear Static	VTSSC	0,45
ELU-88			Linear Static	VTSCSC	0,
ELU-88			Linear Static	VV	0,
ELU-88	Linear Add	No	Linear Static	VLSSC	0,
ELU-88			Linear Static	VLCSC	0,
ELU-88			Linear Static	TU-DIL	0,
ELU-88			Linear Static	TU-CON	0,9
ELU-88			Linear Static	GRA-HEAT	0,
ELU-88			Linear Static	GRA-COOL	0,675
ELU-89			Linear Static	PP	1,
ELU-89			Linear Static	CM-TUBERIA	1,
ELU-89			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-89			Linear Static	SCU	0,
ELU-89			Linear Static	VTSSC	0,45
ELU-89			Linear Static	VTSCSC	0,
ELU-89			Linear Static	VV	0,45
ELU-89			Linear Static	VLSSC	0,
ELU-89			Linear Static	VLCSC	0,
ELU-89	Linear Add	No	Linear Static	TU-DIL	0,315
ELU-89			Linear Static	TU-CON	0,
ELU-89			Linear Static	GRA-HEAT	0,9
ELU-89			Linear Static	GRA-COOL	0,
ELU-90			Linear Static	PP	1,
ELU-90			Linear Static	CM-TUBERIA	1,
ELU-90			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-90	Linear Add	No	Linear Static	SCU	0,
ELU-90			Linear Static	VTSSC	0,45
ELU-90			Linear Static	VTSCSC	0,
ELU-90			Linear Static	VV	0,45
ELU-90			Linear Static	VLSSC	0,
ELU-90			Linear Static	VLCS	0,
ELU-90			Linear Static	TU-DIL	0,
ELU-90			Linear Static	TU-CON	0,315
ELU-90			Linear Static	GRA-HEAT	0,9
ELU-90			Linear Static	GRA-COOL	0,
ELU-91			Linear Static	PP	1,
ELU-91			Linear Static	CM-TUBERIA	1,
ELU-91			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-91			Linear Static	SCU	0,
ELU-91			Linear Static	VTSSC	0,45
ELU-91	Linear Add	No	Linear Static	VTSCSC	0,
ELU-91			Linear Static	VV	0,45
ELU-91			Linear Static	VLSSC	0,
ELU-91			Linear Static	VLCS	0,
ELU-91			Linear Static	TU-DIL	0,315
ELU-91			Linear Static	TU-CON	0,
ELU-91			Linear Static	GRA-HEAT	0,
ELU-91			Linear Static	GRA-COOL	0,9
ELU-92			Linear Static	PP	1,
ELU-92			Linear Static	CM-TUBERIA	1,
ELU-92			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-92			Linear Static	SCU	0,
ELU-92			Linear Static	VTSSC	0,45
ELU-92			Linear Static	VTSCSC	0,
ELU-92			Linear Static	VV	0,45
ELU-92	Linear Add	No	Linear Static	VLSSC	0,
ELU-92			Linear Static	VLCS	0,
ELU-92			Linear Static	TU-DIL	0,
ELU-92			Linear Static	TU-CON	0,315
ELU-92			Linear Static	GRA-HEAT	0,
ELU-92			Linear Static	GRA-COOL	0,9
ELU-93			Linear Static	PP	1,
ELU-93			Linear Static	CM-TUBERIA	1,
ELU-93			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-93			Linear Static	SCU	0,
ELU-93			Linear Static	VTSSC	0,45
ELU-93			Linear Static	VTSCSC	0,
ELU-93			Linear Static	VV	0,45
ELU-93			Linear Static	VLSSC	0,
ELU-93			Linear Static	VLCS	0,
ELU-93	Linear Add	No	Linear Static	TU-DIL	0,9
ELU-93			Linear Static	TU-CON	0,
ELU-93			Linear Static	GRA-HEAT	0,675
ELU-93			Linear Static	GRA-COOL	0,
ELU-94			Linear Static	PP	1,
ELU-94			Linear Static	CM-TUBERIA	1,
ELU-94			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-94	Linear Add	No	Linear Static	SCU	0,
ELU-94			Linear Static	VTSSC	0,45
ELU-94			Linear Static	VTSCC	0,
ELU-94			Linear Static	VV	0,45
ELU-94			Linear Static	VLSSC	0,
ELU-94			Linear Static	VLCSC	0,
ELU-94			Linear Static	TU-DIL	0,
ELU-94			Linear Static	TU-CON	0,9
ELU-94			Linear Static	GRA-HEAT	0,675
ELU-94			Linear Static	GRA-COOL	0,
ELU-95	Linear Add	No	Linear Static	PP	1,
ELU-95			Linear Static	CM-TUBERIA	1,
ELU-95			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-95			Linear Static	SCU	0,
ELU-95			Linear Static	VTSSC	0,45
ELU-95			Linear Static	VTSCC	0,
ELU-95			Linear Static	VV	0,45
ELU-95			Linear Static	VLSSC	0,
ELU-95			Linear Static	VLCSC	0,
ELU-95			Linear Static	TU-DIL	0,9
ELU-95	Linear Add	No	Linear Static	TU-CON	0,
ELU-95			Linear Static	GRA-HEAT	0,
ELU-95			Linear Static	GRA-COOL	0,675
ELU-96			Linear Static	PP	1,
ELU-96			Linear Static	CM-TUBERIA	1,
ELU-96			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-96			Linear Static	SCU	0,
ELU-96			Linear Static	VTSSC	0,45
ELU-96			Linear Static	VTSCC	0,
ELU-96			Linear Static	VV	0,45
ELU-96	Linear Add	No	Linear Static	VLSSC	0,
ELU-96			Linear Static	VLCSC	0,
ELU-96			Linear Static	TU-DIL	0,
ELU-96			Linear Static	TU-CON	0,9
ELU-96			Linear Static	GRA-HEAT	0,
ELU-96			Linear Static	GRA-COOL	0,675
ELU-97			Linear Static	PP	1,
ELU-97			Linear Static	CM-TUBERIA	1,
ELU-97			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-97			Linear Static	SCU	0,
ELU-97	Linear Add	No	Linear Static	VTSSC	0,
ELU-97			Linear Static	VTSCC	0,
ELU-97			Linear Static	VV	0,
ELU-97			Linear Static	VLSSC	0,45
ELU-97			Linear Static	VLCSC	0,
ELU-97			Linear Static	TU-DIL	0,315
ELU-97			Linear Static	TU-CON	0,
ELU-97			Linear Static	GRA-HEAT	0,9
ELU-97			Linear Static	GRA-COOL	0,
ELU-98			Linear Static	PP	1,
ELU-98	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-98			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-98	Linear Add	No	Linear Static	SCU	0,
ELU-98			Linear Static	VTSSC	0,
ELU-98			Linear Static	VTSCSC	0,
ELU-98			Linear Static	VV	0,
ELU-98			Linear Static	VLSSC	0,45
ELU-98			Linear Static	VLCS	0,
ELU-98			Linear Static	TU-DIL	0,
ELU-98			Linear Static	TU-CON	0,315
ELU-98			Linear Static	GRA-HEAT	0,9
ELU-98			Linear Static	GRA-COOL	0,
ELU-99			Linear Static	PP	1,
ELU-99			Linear Static	CM-TUBERIA	1,
ELU-99			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-99			Linear Static	SCU	0,
ELU-99			Linear Static	VTSSC	0,
ELU-99			Linear Static	VTSCSC	0,
ELU-99			Linear Static	VV	0,
ELU-99			Linear Static	VLSSC	0,45
ELU-99			Linear Static	VLCS	0,
ELU-99			Linear Static	TU-DIL	0,315
ELU-99			Linear Static	TU-CON	0,
ELU-99	Linear Add	No	Linear Static	GRA-HEAT	0,
ELU-99			Linear Static	GRA-COOL	0,9
ELU-100			Linear Static	PP	1,
ELU-100			Linear Static	CM-TUBERIA	1,
ELU-100			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-100			Linear Static	SCU	0,
ELU-100			Linear Static	VTSSC	0,
ELU-100			Linear Static	VTSCSC	0,
ELU-100			Linear Static	VV	0,
ELU-100			Linear Static	VLSSC	0,45
ELU-100			Linear Static	VLCS	0,
ELU-100			Linear Static	TU-DIL	0,
ELU-100			Linear Static	TU-CON	0,315
ELU-100			Linear Static	GRA-HEAT	0,
ELU-100			Linear Static	GRA-COOL	0,9
ELU-101			Linear Static	PP	1,
ELU-101			Linear Static	CM-TUBERIA	1,
ELU-101			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-101	Linear Add	No	Linear Static	SCU	0,
ELU-101			Linear Static	VTSSC	0,
ELU-101			Linear Static	VTSCSC	0,
ELU-101			Linear Static	VV	0,
ELU-101			Linear Static	VLSSC	0,45
ELU-101			Linear Static	VLCS	0,
ELU-101			Linear Static	TU-DIL	0,9
ELU-101			Linear Static	TU-CON	0,
ELU-101			Linear Static	GRA-HEAT	0,675
ELU-101			Linear Static	GRA-COOL	0,
ELU-102			Linear Static	PP	1,
ELU-102			Linear Static	CM-TUBERIA	1,
ELU-102			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-102	Linear Add	No	Linear Static	SCU	0,
ELU-102			Linear Static	VTSSC	0,
ELU-102			Linear Static	VTSCC	0,
ELU-102			Linear Static	VV	0,
ELU-102			Linear Static	VLSSC	0,45
ELU-102			Linear Static	VLCSC	0,
ELU-102			Linear Static	TU-DIL	0,
ELU-102			Linear Static	TU-CON	0,9
ELU-102			Linear Static	GRA-HEAT	0,675
ELU-102			Linear Static	GRA-COOL	0,
ELU-103	Linear Add	No	Linear Static	PP	1,
ELU-103			Linear Static	CM-TUBERIA	1,
ELU-103			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-103			Linear Static	SCU	0,
ELU-103			Linear Static	VTSSC	0,
ELU-103			Linear Static	VTSCC	0,
ELU-103			Linear Static	VV	0,
ELU-103			Linear Static	VLSSC	0,45
ELU-103			Linear Static	VLCSC	0,
ELU-103			Linear Static	TU-DIL	0,9
ELU-103	Linear Add	No	Linear Static	TU-CON	0,
ELU-103			Linear Static	GRA-HEAT	0,
ELU-103			Linear Static	GRA-COOL	0,675
ELU-104			Linear Static	PP	1,
ELU-104			Linear Static	CM-TUBERIA	1,
ELU-104			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-104			Linear Static	SCU	0,
ELU-104			Linear Static	VTSSC	0,
ELU-104			Linear Static	VTSCC	0,
ELU-104			Linear Static	VV	0,
ELU-104	Linear Add	No	Linear Static	VLSSC	0,45
ELU-104			Linear Static	VLCSC	0,
ELU-104			Linear Static	TU-DIL	0,
ELU-104			Linear Static	TU-CON	0,9
ELU-104			Linear Static	GRA-HEAT	0,
ELU-104			Linear Static	GRA-COOL	0,675
ELU-105			Linear Static	PP	1,
ELU-105			Linear Static	CM-TUBERIA	1,
ELU-105			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-105			Linear Static	SCU	1,35
ELU-105	Linear Add	No	Linear Static	VTSSC	0,
ELU-105			Linear Static	VTSCC	0,
ELU-105			Linear Static	VV	0,
ELU-105			Linear Static	VLSSC	0,
ELU-105			Linear Static	VLCSC	0,45
ELU-105			Linear Static	TU-DIL	0,315
ELU-105			Linear Static	TU-CON	0,
ELU-105			Linear Static	GRA-HEAT	0,9
ELU-105			Linear Static	GRA-COOL	0,
ELU-106			Linear Static	PP	1,
ELU-106	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-106			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-106	Linear Add	No	Linear Static	SCU	1,35
ELU-106			Linear Static	VTSSC	0,
ELU-106			Linear Static	VTSCSC	0,
ELU-106			Linear Static	VV	0,
ELU-106			Linear Static	VLSSC	0,
ELU-106			Linear Static	VLCSC	0,45
ELU-106			Linear Static	TU-DIL	0,
ELU-106			Linear Static	TU-CON	0,315
ELU-106			Linear Static	GRA-HEAT	0,9
ELU-106			Linear Static	GRA-COOL	0,
ELU-107	Linear Add	No	Linear Static	PP	1,
ELU-107			Linear Static	CM-TUBERIA	1,
ELU-107			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-107			Linear Static	SCU	1,35
ELU-107			Linear Static	VTSSC	0,
ELU-107			Linear Static	VTSCSC	0,
ELU-107			Linear Static	VV	0,
ELU-107			Linear Static	VLSSC	0,
ELU-107			Linear Static	VLCSC	0,45
ELU-107			Linear Static	TU-DIL	0,315
ELU-107	Linear Add	No	Linear Static	TU-CON	0,
ELU-107			Linear Static	GRA-HEAT	0,
ELU-107			Linear Static	GRA-COOL	0,9
ELU-108			Linear Static	PP	1,
ELU-108			Linear Static	CM-TUBERIA	1,
ELU-108			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-108			Linear Static	SCU	1,35
ELU-108			Linear Static	VTSSC	0,
ELU-108			Linear Static	VTSCSC	0,
ELU-108			Linear Static	VV	0,
ELU-108	Linear Add	No	Linear Static	VLSSC	0,
ELU-108			Linear Static	VLCSC	0,45
ELU-108			Linear Static	TU-DIL	0,
ELU-108			Linear Static	TU-CON	0,315
ELU-108			Linear Static	GRA-HEAT	0,
ELU-108			Linear Static	GRA-COOL	0,9
ELU-109			Linear Static	PP	1,
ELU-109			Linear Static	CM-TUBERIA	1,
ELU-109			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-109			Linear Static	SCU	1,35
ELU-109	Linear Add	No	Linear Static	VTSSC	0,
ELU-109			Linear Static	VTSCSC	0,
ELU-109			Linear Static	VV	0,
ELU-109			Linear Static	VLSSC	0,
ELU-109			Linear Static	VLCSC	0,45
ELU-109			Linear Static	TU-DIL	0,9
ELU-109			Linear Static	TU-CON	0,
ELU-109			Linear Static	GRA-HEAT	0,675
ELU-109			Linear Static	GRA-COOL	0,
ELU-110			Linear Static	PP	1,
ELU-110	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-110			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-110	Linear Add	No	Linear Static	SCU	1,35
ELU-110			Linear Static	VTSSC	0,
ELU-110			Linear Static	VTSCC	0,
ELU-110			Linear Static	VV	0,
ELU-110			Linear Static	VLSSC	0,
ELU-110			Linear Static	VLCSC	0,45
ELU-110			Linear Static	TU-DIL	0,
ELU-110			Linear Static	TU-CON	0,9
ELU-110			Linear Static	GRA-HEAT	0,675
ELU-110			Linear Static	GRA-COOL	0,
ELU-111			Linear Static	PP	1,
ELU-111			Linear Static	CM-TUBERIA	1,
ELU-111			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-111			Linear Static	SCU	1,35
ELU-111			Linear Static	VTSSC	0,
ELU-111	Linear Add	No	Linear Static	VTSCC	0,
ELU-111			Linear Static	VV	0,
ELU-111			Linear Static	VLSSC	0,
ELU-111			Linear Static	VLCSC	0,45
ELU-111			Linear Static	TU-DIL	0,9
ELU-111			Linear Static	TU-CON	0,
ELU-111			Linear Static	GRA-HEAT	0,
ELU-111			Linear Static	GRA-COOL	0,675
ELU-112			Linear Static	PP	1,
ELU-112			Linear Static	CM-TUBERIA	1,
ELU-112			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-112			Linear Static	SCU	1,35
ELU-112			Linear Static	VTSSC	0,
ELU-112			Linear Static	VTSCC	0,
ELU-112			Linear Static	VV	0,
ELU-112	Linear Add	No	Linear Static	VLSSC	0,
ELU-112			Linear Static	VLCSC	0,45
ELU-112			Linear Static	TU-DIL	0,
ELU-112			Linear Static	TU-CON	0,9
ELU-112			Linear Static	GRA-HEAT	0,
ELU-112			Linear Static	GRA-COOL	0,675
ELU-113			Linear Static	PP	1,35
ELU-113			Linear Static	CM-TUBERIA	1,35
ELU-113			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-113			Linear Static	SCU	0,54
ELU-113			Linear Static	VTSSC	0,
ELU-113			Linear Static	VTSCC	0,
ELU-113			Linear Static	VV	0,
ELU-113			Linear Static	VLSSC	0,
ELU-113			Linear Static	VLCSC	0,
ELU-113	Linear Add	No	Linear Static	TU-DIL	0,315
ELU-113			Linear Static	TU-CON	0,
ELU-113			Linear Static	GRA-HEAT	0,9
ELU-113			Linear Static	GRA-COOL	0,
ELU-114			Linear Static	PP	1,35
ELU-114			Linear Static	CM-TUBERIA	1,35
ELU-114			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-114	Linear Add	No	Linear Static	SCU	0,54
ELU-114			Linear Static	VTSSC	0,
ELU-114			Linear Static	VTSCSC	0,
ELU-114			Linear Static	VV	0,
ELU-114			Linear Static	VLSSC	0,
ELU-114			Linear Static	VLCS	0,
ELU-114			Linear Static	TU-DIL	0,
ELU-114			Linear Static	TU-CON	0,315
ELU-114			Linear Static	GRA-HEAT	0,9
ELU-114			Linear Static	GRA-COOL	0,
ELU-115	Linear Add	No	Linear Static	PP	1,35
ELU-115			Linear Static	CM-TUBERIA	1,35
ELU-115			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-115			Linear Static	SCU	0,54
ELU-115			Linear Static	VTSSC	0,
ELU-115			Linear Static	VTSCSC	0,
ELU-115			Linear Static	VV	0,
ELU-115			Linear Static	VLSSC	0,
ELU-115			Linear Static	VLCS	0,
ELU-115			Linear Static	TU-DIL	0,315
ELU-115	Linear Add	No	Linear Static	TU-CON	0,
ELU-115			Linear Static	GRA-HEAT	0,
ELU-115			Linear Static	GRA-COOL	0,9
ELU-116			Linear Static	PP	1,35
ELU-116			Linear Static	CM-TUBERIA	1,35
ELU-116			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-116			Linear Static	SCU	0,54
ELU-116			Linear Static	VTSSC	0,
ELU-116			Linear Static	VTSCSC	0,
ELU-116			Linear Static	VV	0,
ELU-116	Linear Add	No	Linear Static	VLSSC	0,
ELU-116			Linear Static	VLCS	0,
ELU-116			Linear Static	TU-DIL	0,
ELU-116			Linear Static	TU-CON	0,315
ELU-116			Linear Static	GRA-HEAT	0,
ELU-116			Linear Static	GRA-COOL	0,9
ELU-117			Linear Static	PP	1,35
ELU-117			Linear Static	CM-TUBERIA	1,35
ELU-117			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-117			Linear Static	SCU	0,54
ELU-117	Linear Add	No	Linear Static	VTSSC	0,
ELU-117			Linear Static	VTSCSC	0,
ELU-117			Linear Static	VV	0,
ELU-117			Linear Static	VLSSC	0,
ELU-117			Linear Static	VLCS	0,
ELU-117			Linear Static	TU-DIL	0,9
ELU-117			Linear Static	TU-CON	0,
ELU-117			Linear Static	GRA-HEAT	0,675
ELU-117			Linear Static	GRA-COOL	0,
ELU-118			Linear Static	PP	1,35
ELU-118	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-118			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-118	Linear Add	No	Linear Static	SCU	0,54
ELU-118			Linear Static	VTSSC	0,
ELU-118			Linear Static	VTSCSC	0,
ELU-118			Linear Static	VV	0,
ELU-118			Linear Static	VLSSC	0,
ELU-118			Linear Static	VLCSC	0,
ELU-118			Linear Static	TU-DIL	0,
ELU-118			Linear Static	TU-CON	0,9
ELU-118			Linear Static	GRA-HEAT	0,675
ELU-118			Linear Static	GRA-COOL	0,
ELU-119			Linear Static	PP	1,35
ELU-119			Linear Static	CM-TUBERIA	1,35
ELU-119			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-119	Linear Add	No	Linear Static	SCU	0,54
ELU-119			Linear Static	VTSSC	0,
ELU-119			Linear Static	VTSCSC	0,
ELU-119			Linear Static	VV	0,
ELU-119			Linear Static	VLSSC	0,
ELU-119			Linear Static	VLCSC	0,
ELU-119			Linear Static	TU-DIL	0,9
ELU-119			Linear Static	TU-CON	0,
ELU-119			Linear Static	GRA-HEAT	0,
ELU-119			Linear Static	GRA-COOL	0,675
ELU-120			Linear Static	PP	1,35
ELU-120			Linear Static	CM-TUBERIA	1,35
ELU-120			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-120	Linear Add	No	Linear Static	SCU	0,54
ELU-120			Linear Static	VTSSC	0,
ELU-120			Linear Static	VTSCSC	0,
ELU-120			Linear Static	VV	0,
ELU-120			Linear Static	VLSSC	0,
ELU-120			Linear Static	VLCSC	0,
ELU-120			Linear Static	TU-DIL	0,
ELU-120			Linear Static	TU-CON	0,9
ELU-120			Linear Static	GRA-HEAT	0,
ELU-120			Linear Static	GRA-COOL	0,675
ELU-121			Linear Static	PP	1,35
ELU-121			Linear Static	CM-TUBERIA	1,35
ELU-121			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-121	Linear Add	No	Linear Static	SCU	0,54
ELU-121			Linear Static	VTSSC	0,
ELU-121			Linear Static	VTSCSC	1,5
ELU-121			Linear Static	VV	0,
ELU-121			Linear Static	VLSSC	0,
ELU-121			Linear Static	VLCSC	0,
ELU-121			Linear Static	TU-DIL	0,315
ELU-121			Linear Static	TU-CON	0,
ELU-121			Linear Static	GRA-HEAT	0,9
ELU-121			Linear Static	GRA-COOL	0,
ELU-122			Linear Static	PP	1,35
ELU-122			Linear Static	CM-TUBERIA	1,35
ELU-122			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-122	Linear Add	No	Linear Static	SCU	0,54
ELU-122			Linear Static	VTSSC	0,
ELU-122			Linear Static	VTSCSC	1,5
ELU-122			Linear Static	VV	0,
ELU-122			Linear Static	VLSSC	0,
ELU-122			Linear Static	VLCS	0,
ELU-122			Linear Static	TU-DIL	0,
ELU-122			Linear Static	TU-CON	0,315
ELU-122			Linear Static	GRA-HEAT	0,9
ELU-122			Linear Static	GRA-COOL	0,
ELU-123			Linear Static	PP	1,35
ELU-123			Linear Static	CM-TUBERIA	1,35
ELU-123			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-123	Linear Add	No	Linear Static	SCU	0,54
ELU-123			Linear Static	VTSSC	0,
ELU-123			Linear Static	VTSCSC	1,5
ELU-123			Linear Static	VV	0,
ELU-123			Linear Static	VLSSC	0,
ELU-123			Linear Static	VLCS	0,
ELU-123			Linear Static	TU-DIL	0,315
ELU-123			Linear Static	TU-CON	0,
ELU-123			Linear Static	GRA-HEAT	0,
ELU-123			Linear Static	GRA-COOL	0,9
ELU-124			Linear Static	PP	1,35
ELU-124			Linear Static	CM-TUBERIA	1,35
ELU-124			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-124	Linear Add	No	Linear Static	SCU	0,54
ELU-124			Linear Static	VTSSC	0,
ELU-124			Linear Static	VTSCSC	1,5
ELU-124			Linear Static	VV	0,
ELU-124			Linear Static	VLSSC	0,
ELU-124			Linear Static	VLCS	0,
ELU-124			Linear Static	TU-DIL	0,
ELU-124			Linear Static	TU-CON	0,315
ELU-124			Linear Static	GRA-HEAT	0,
ELU-124			Linear Static	GRA-COOL	0,9
ELU-125			Linear Static	PP	1,35
ELU-125			Linear Static	CM-TUBERIA	1,35
ELU-125			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-125	Linear Add	No	Linear Static	SCU	0,54
ELU-125			Linear Static	VTSSC	0,
ELU-125			Linear Static	VTSCSC	1,5
ELU-125			Linear Static	VV	0,
ELU-125			Linear Static	VLSSC	0,
ELU-125			Linear Static	VLCS	0,
ELU-125			Linear Static	TU-DIL	0,9
ELU-125			Linear Static	TU-CON	0,
ELU-125			Linear Static	GRA-HEAT	0,675
ELU-125			Linear Static	GRA-COOL	0,
ELU-126			Linear Static	PP	1,35
ELU-126			Linear Static	CM-TUBERIA	1,35
ELU-126			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-126	Linear Add	No	Linear Static	SCU	0,54
ELU-126			Linear Static	VTSSC	0,
ELU-126			Linear Static	VTSCSC	1,5
ELU-126			Linear Static	VV	0,
ELU-126			Linear Static	VLSSC	0,
ELU-126			Linear Static	VLCSC	0,
ELU-126			Linear Static	TU-DIL	0,
ELU-126			Linear Static	TU-CON	0,9
ELU-126			Linear Static	GRA-HEAT	0,675
ELU-126			Linear Static	GRA-COOL	0,
ELU-127			Linear Static	PP	1,35
ELU-127			Linear Static	CM-TUBERIA	1,35
ELU-127			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-127			Linear Static	SCU	0,54
ELU-127			Linear Static	VTSSC	0,
ELU-127	Linear Add	No	Linear Static	VTSCSC	1,5
ELU-127			Linear Static	VV	0,
ELU-127			Linear Static	VLSSC	0,
ELU-127			Linear Static	VLCSC	0,
ELU-127			Linear Static	TU-DIL	0,9
ELU-127			Linear Static	TU-CON	0,
ELU-127			Linear Static	GRA-HEAT	0,
ELU-127			Linear Static	GRA-COOL	0,675
ELU-128			Linear Static	PP	1,35
ELU-128			Linear Static	CM-TUBERIA	1,35
ELU-128			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-128			Linear Static	SCU	0,54
ELU-128			Linear Static	VTSSC	0,
ELU-128			Linear Static	VTSCSC	1,5
ELU-128			Linear Static	VV	0,
ELU-128	Linear Add	No	Linear Static	VLSSC	0,
ELU-128			Linear Static	VLCSC	0,
ELU-128			Linear Static	TU-DIL	0,
ELU-128			Linear Static	TU-CON	0,9
ELU-128			Linear Static	GRA-HEAT	0,
ELU-128			Linear Static	GRA-COOL	0,675
ELU-129			Linear Static	PP	1,35
ELU-129			Linear Static	CM-TUBERIA	1,35
ELU-129			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-129			Linear Static	SCU	0,54
ELU-129			Linear Static	VTSSC	0,
ELU-129			Linear Static	VTSCSC	1,5
ELU-129			Linear Static	VV	1,5
ELU-129			Linear Static	VLSSC	0,
ELU-129			Linear Static	VLCSC	0,
ELU-129	Linear Add	No	Linear Static	TU-DIL	0,315
ELU-129			Linear Static	TU-CON	0,
ELU-129			Linear Static	GRA-HEAT	0,9
ELU-129			Linear Static	GRA-COOL	0,
ELU-130			Linear Static	PP	1,35
ELU-130			Linear Static	CM-TUBERIA	1,35
ELU-130			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-130			Linear Static	SCU	0,54
ELU-130			Linear Static	VTSSC	0,
ELU-130			Linear Static	VTSCSC	1,5
ELU-130			Linear Static	VV	1,5
ELU-130			Linear Static	VLSSC	0,
ELU-130			Linear Static	VLCS	0,
ELU-130			Linear Static	TU-DIL	0,
ELU-130			Linear Static	TU-CON	0,315
ELU-130			Linear Static	GRA-HEAT	0,9
ELU-130			Linear Static	GRA-COOL	0,
ELU-131	Linear Add	No	Linear Static	PP	1,35
ELU-131			Linear Static	CM-TUBERIA	1,35
ELU-131			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-131			Linear Static	SCU	0,54
ELU-131			Linear Static	VTSSC	0,
ELU-131			Linear Static	VTSCSC	1,5
ELU-131			Linear Static	VV	1,5
ELU-131			Linear Static	VLSSC	0,
ELU-131			Linear Static	VLCS	0,
ELU-131			Linear Static	TU-DIL	0,315
ELU-131			Linear Static	TU-CON	0,
ELU-131			Linear Static	GRA-HEAT	0,
ELU-131			Linear Static	GRA-COOL	0,9
ELU-132	Linear Add	No	Linear Static	PP	1,35
ELU-132			Linear Static	CM-TUBERIA	1,35
ELU-132			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-132			Linear Static	SCU	0,54
ELU-132			Linear Static	VTSSC	0,
ELU-132			Linear Static	VTSCSC	1,5
ELU-132			Linear Static	VV	1,5
ELU-132			Linear Static	VLSSC	0,
ELU-132			Linear Static	VLCS	0,
ELU-132			Linear Static	TU-DIL	0,
ELU-132			Linear Static	TU-CON	0,315
ELU-132			Linear Static	GRA-HEAT	0,
ELU-132			Linear Static	GRA-COOL	0,9
ELU-133	Linear Add	No	Linear Static	PP	1,35
ELU-133			Linear Static	CM-TUBERIA	1,35
ELU-133			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-133			Linear Static	SCU	0,54
ELU-133			Linear Static	VTSSC	0,
ELU-133			Linear Static	VTSCSC	1,5
ELU-133			Linear Static	VV	1,5
ELU-133			Linear Static	VLSSC	0,
ELU-133			Linear Static	VLCS	0,
ELU-133			Linear Static	TU-DIL	0,9
ELU-133			Linear Static	TU-CON	0,
ELU-133			Linear Static	GRA-HEAT	0,675
ELU-133			Linear Static	GRA-COOL	0,
ELU-134	Linear Add	No	Linear Static	PP	1,35
ELU-134			Linear Static	CM-TUBERIA	1,35
ELU-134			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-134	Linear Add	No	Linear Static	SCU	0,54
ELU-134			Linear Static	VTSSC	0,
ELU-134			Linear Static	VTSCSC	1,5
ELU-134			Linear Static	VV	1,5
ELU-134			Linear Static	VLSSC	0,
ELU-134			Linear Static	VLCSC	0,
ELU-134			Linear Static	TU-DIL	0,
ELU-134			Linear Static	TU-CON	0,9
ELU-134			Linear Static	GRA-HEAT	0,675
ELU-134			Linear Static	GRA-COOL	0,
ELU-135	Linear Add	No	Linear Static	PP	1,35
ELU-135			Linear Static	CM-TUBERIA	1,35
ELU-135			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-135			Linear Static	SCU	0,54
ELU-135			Linear Static	VTSSC	0,
ELU-135			Linear Static	VTSCSC	1,5
ELU-135			Linear Static	VV	1,5
ELU-135			Linear Static	VLSSC	0,
ELU-135			Linear Static	VLCSC	0,
ELU-135			Linear Static	TU-DIL	0,9
ELU-135	Linear Add	No	Linear Static	TU-CON	0,
ELU-135			Linear Static	GRA-HEAT	0,
ELU-135			Linear Static	GRA-COOL	0,675
ELU-136			Linear Static	PP	1,35
ELU-136			Linear Static	CM-TUBERIA	1,35
ELU-136			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-136			Linear Static	SCU	0,54
ELU-136			Linear Static	VTSSC	0,
ELU-136			Linear Static	VTSCSC	1,5
ELU-136			Linear Static	VV	1,5
ELU-136	Linear Add	No	Linear Static	VLSSC	0,
ELU-136			Linear Static	VLCSC	0,
ELU-136			Linear Static	TU-DIL	0,
ELU-136			Linear Static	TU-CON	0,9
ELU-136			Linear Static	GRA-HEAT	0,
ELU-136			Linear Static	GRA-COOL	0,675
ELU-137			Linear Static	PP	1,35
ELU-137			Linear Static	CM-TUBERIA	1,35
ELU-137			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-137			Linear Static	SCU	0,
ELU-137	Linear Add	No	Linear Static	VTSSC	1,5
ELU-137			Linear Static	VTSCSC	0,
ELU-137			Linear Static	VV	0,
ELU-137			Linear Static	VLSSC	0,
ELU-137			Linear Static	VLCSC	0,
ELU-137			Linear Static	TU-DIL	0,315
ELU-137			Linear Static	TU-CON	0,
ELU-137			Linear Static	GRA-HEAT	0,9
ELU-137			Linear Static	GRA-COOL	0,
ELU-138			Linear Static	PP	1,35
ELU-138	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-138			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-138	Linear Add	No	Linear Static	SCU	0,
ELU-138			Linear Static	VTSSC	1,5
ELU-138			Linear Static	VTSCSC	0,
ELU-138			Linear Static	VV	0,
ELU-138			Linear Static	VLSSC	0,
ELU-138			Linear Static	VLCSC	0,
ELU-138			Linear Static	TU-DIL	0,
ELU-138			Linear Static	TU-CON	0,315
ELU-138			Linear Static	GRA-HEAT	0,9
ELU-138			Linear Static	GRA-COOL	0,
ELU-139			Linear Static	PP	1,35
ELU-139			Linear Static	CM-TUBERIA	1,35
ELU-139			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-139			Linear Static	SCU	0,
ELU-139			Linear Static	VTSSC	1,5
ELU-139	Linear Add	No	Linear Static	VTSCSC	0,
ELU-139			Linear Static	VV	0,
ELU-139			Linear Static	VLSSC	0,
ELU-139			Linear Static	VLCSC	0,
ELU-139			Linear Static	TU-DIL	0,315
ELU-139			Linear Static	TU-CON	0,
ELU-139			Linear Static	GRA-HEAT	0,
ELU-139			Linear Static	GRA-COOL	0,9
ELU-140			Linear Static	PP	1,35
ELU-140			Linear Static	CM-TUBERIA	1,35
ELU-140			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-140			Linear Static	SCU	0,
ELU-140			Linear Static	VTSSC	1,5
ELU-140			Linear Static	VTSCSC	0,
ELU-140			Linear Static	VV	0,
ELU-140	Linear Add	No	Linear Static	VLSSC	0,
ELU-140			Linear Static	VLCSC	0,
ELU-140			Linear Static	TU-DIL	0,
ELU-140			Linear Static	TU-CON	0,315
ELU-140			Linear Static	GRA-HEAT	0,
ELU-140			Linear Static	GRA-COOL	0,9
ELU-141			Linear Static	PP	1,35
ELU-141			Linear Static	CM-TUBERIA	1,35
ELU-141			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-141			Linear Static	SCU	0,
ELU-141			Linear Static	VTSSC	1,5
ELU-141			Linear Static	VTSCSC	0,
ELU-141			Linear Static	VV	0,
ELU-141			Linear Static	VLSSC	0,
ELU-141			Linear Static	VLCSC	0,
ELU-141	Linear Add	No	Linear Static	TU-DIL	0,9
ELU-141			Linear Static	TU-CON	0,
ELU-141			Linear Static	GRA-HEAT	0,675
ELU-141			Linear Static	GRA-COOL	0,
ELU-142			Linear Static	PP	1,35
ELU-142			Linear Static	CM-TUBERIA	1,35
ELU-142			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-142	Linear Add	No	Linear Static	SCU	0,
ELU-142			Linear Static	VTSSC	1,5
ELU-142			Linear Static	VTSCC	0,
ELU-142			Linear Static	VV	0,
ELU-142			Linear Static	VLSSC	0,
ELU-142			Linear Static	VLCSC	0,
ELU-142			Linear Static	TU-DIL	0,
ELU-142			Linear Static	TU-CON	0,9
ELU-142			Linear Static	GRA-HEAT	0,675
ELU-142			Linear Static	GRA-COOL	0,
ELU-143	Linear Add	No	Linear Static	PP	1,35
ELU-143			Linear Static	CM-TUBERIA	1,35
ELU-143			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-143			Linear Static	SCU	0,
ELU-143			Linear Static	VTSSC	1,5
ELU-143			Linear Static	VTSCC	0,
ELU-143			Linear Static	VV	0,
ELU-143			Linear Static	VLSSC	0,
ELU-143			Linear Static	VLCSC	0,
ELU-143			Linear Static	TU-DIL	0,9
ELU-143	Linear Add	No	Linear Static	TU-CON	0,
ELU-143			Linear Static	GRA-HEAT	0,
ELU-143			Linear Static	GRA-COOL	0,675
ELU-144			Linear Static	PP	1,35
ELU-144			Linear Static	CM-TUBERIA	1,35
ELU-144			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-144			Linear Static	SCU	0,
ELU-144			Linear Static	VTSSC	1,5
ELU-144			Linear Static	VTSCC	0,
ELU-144			Linear Static	VV	0,
ELU-144	Linear Add	No	Linear Static	VLSSC	0,
ELU-144			Linear Static	VLCSC	0,
ELU-144			Linear Static	TU-DIL	0,
ELU-144			Linear Static	TU-CON	0,9
ELU-144			Linear Static	GRA-HEAT	0,
ELU-144			Linear Static	GRA-COOL	0,675
ELU-145			Linear Static	PP	1,35
ELU-145			Linear Static	CM-TUBERIA	1,35
ELU-145			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-145			Linear Static	SCU	0,
ELU-145	Linear Add	No	Linear Static	VTSSC	1,5
ELU-145			Linear Static	VTSCC	0,
ELU-145			Linear Static	VV	1,5
ELU-145			Linear Static	VLSSC	0,
ELU-145			Linear Static	VLCSC	0,
ELU-145			Linear Static	TU-DIL	0,315
ELU-145			Linear Static	TU-CON	0,
ELU-145			Linear Static	GRA-HEAT	0,9
ELU-145			Linear Static	GRA-COOL	0,
ELU-146			Linear Static	PP	1,35
ELU-146	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-146			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-146	Linear Add	No	Linear Static	SCU	0,
ELU-146			Linear Static	VTSSC	1,5
ELU-146			Linear Static	VTSCSC	0,
ELU-146			Linear Static	VV	1,5
ELU-146			Linear Static	VLSSC	0,
ELU-146			Linear Static	VLCSC	0,
ELU-146			Linear Static	TU-DIL	0,
ELU-146			Linear Static	TU-CON	0,315
ELU-146			Linear Static	GRA-HEAT	0,9
ELU-146			Linear Static	GRA-COOL	0,
ELU-147			Linear Static	PP	1,35
ELU-147			Linear Static	CM-TUBERIA	1,35
ELU-147			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-147	Linear Add	No	Linear Static	SCU	0,
ELU-147			Linear Static	VTSSC	1,5
ELU-147			Linear Static	VTSCSC	0,
ELU-147			Linear Static	VV	1,5
ELU-147			Linear Static	VLSSC	0,
ELU-147			Linear Static	VLCSC	0,
ELU-147			Linear Static	TU-DIL	0,315
ELU-147			Linear Static	TU-CON	0,
ELU-147			Linear Static	GRA-HEAT	0,
ELU-147			Linear Static	GRA-COOL	0,9
ELU-148			Linear Static	PP	1,35
ELU-148			Linear Static	CM-TUBERIA	1,35
ELU-148			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-148	Linear Add	No	Linear Static	SCU	0,
ELU-148			Linear Static	VTSSC	1,5
ELU-148			Linear Static	VTSCSC	0,
ELU-148			Linear Static	VV	1,5
ELU-148			Linear Static	VLSSC	0,
ELU-148			Linear Static	VLCSC	0,
ELU-148			Linear Static	TU-DIL	0,
ELU-148			Linear Static	TU-CON	0,315
ELU-148			Linear Static	GRA-HEAT	0,
ELU-148			Linear Static	GRA-COOL	0,9
ELU-149			Linear Static	PP	1,35
ELU-149			Linear Static	CM-TUBERIA	1,35
ELU-149			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-149	Linear Add	No	Linear Static	SCU	0,
ELU-149			Linear Static	VTSSC	1,5
ELU-149			Linear Static	VTSCSC	0,
ELU-149			Linear Static	VV	1,5
ELU-149			Linear Static	VLSSC	0,
ELU-149			Linear Static	VLCSC	0,
ELU-149			Linear Static	TU-DIL	0,9
ELU-149			Linear Static	TU-CON	0,
ELU-149			Linear Static	GRA-HEAT	0,675
ELU-149			Linear Static	GRA-COOL	0,
ELU-150			Linear Static	PP	1,35
ELU-150			Linear Static	CM-TUBERIA	1,35
ELU-150			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-150	Linear Add	No	Linear Static	SCU	0,
ELU-150			Linear Static	VTSSC	1,5
ELU-150			Linear Static	VTSCC	0,
ELU-150			Linear Static	VV	1,5
ELU-150			Linear Static	VLSSC	0,
ELU-150			Linear Static	VLCSC	0,
ELU-150			Linear Static	TU-DIL	0,
ELU-150			Linear Static	TU-CON	0,9
ELU-150			Linear Static	GRA-HEAT	0,675
ELU-150			Linear Static	GRA-COOL	0,
ELU-151	Linear Add	No	Linear Static	PP	1,35
ELU-151			Linear Static	CM-TUBERIA	1,35
ELU-151			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-151			Linear Static	SCU	0,
ELU-151			Linear Static	VTSSC	1,5
ELU-151			Linear Static	VTSCC	0,
ELU-151			Linear Static	VV	1,5
ELU-151			Linear Static	VLSSC	0,
ELU-151			Linear Static	VLCSC	0,
ELU-151			Linear Static	TU-DIL	0,9
ELU-151	Linear Add	No	Linear Static	TU-CON	0,
ELU-151			Linear Static	GRA-HEAT	0,
ELU-151			Linear Static	GRA-COOL	0,675
ELU-152			Linear Static	PP	1,35
ELU-152			Linear Static	CM-TUBERIA	1,35
ELU-152			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-152			Linear Static	SCU	0,
ELU-152			Linear Static	VTSSC	1,5
ELU-152			Linear Static	VTSCC	0,
ELU-152			Linear Static	VV	1,5
ELU-152	Linear Add	No	Linear Static	VLSSC	0,
ELU-152			Linear Static	VLCSC	0,
ELU-152			Linear Static	TU-DIL	0,
ELU-152			Linear Static	TU-CON	0,9
ELU-152			Linear Static	GRA-HEAT	0,
ELU-152			Linear Static	GRA-COOL	0,675
ELU-153			Linear Static	PP	1,35
ELU-153			Linear Static	CM-TUBERIA	1,35
ELU-153			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-153			Linear Static	SCU	0,
ELU-153	Linear Add	No	Linear Static	VTSSC	0,
ELU-153			Linear Static	VTSCC	0,
ELU-153			Linear Static	VV	0,
ELU-153			Linear Static	VLSSC	1,5
ELU-153			Linear Static	VLCSC	0,
ELU-153			Linear Static	TU-DIL	0,315
ELU-153			Linear Static	TU-CON	0,
ELU-153			Linear Static	GRA-HEAT	0,9
ELU-153			Linear Static	GRA-COOL	0,
ELU-154			Linear Static	PP	1,35
ELU-154	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-154			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-154	Linear Add	No	Linear Static	SCU	0,
ELU-154			Linear Static	VTSSC	0,
ELU-154			Linear Static	VTSCSC	0,
ELU-154			Linear Static	VV	0,
ELU-154			Linear Static	VLSSC	1,5
ELU-154			Linear Static	VLCSC	0,
ELU-154			Linear Static	TU-DIL	0,
ELU-154			Linear Static	TU-CON	0,315
ELU-154			Linear Static	GRA-HEAT	0,9
ELU-154			Linear Static	GRA-COOL	0,
ELU-155			Linear Static	PP	1,35
ELU-155			Linear Static	CM-TUBERIA	1,35
ELU-155			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-155			Linear Static	SCU	0,
ELU-155			Linear Static	VTSSC	0,
ELU-155	Linear Add	No	Linear Static	VTSCSC	0,
ELU-155			Linear Static	VV	0,
ELU-155			Linear Static	VLSSC	1,5
ELU-155			Linear Static	VLCSC	0,
ELU-155			Linear Static	TU-DIL	0,315
ELU-155			Linear Static	TU-CON	0,
ELU-155			Linear Static	GRA-HEAT	0,
ELU-155			Linear Static	GRA-COOL	0,9
ELU-156			Linear Static	PP	1,35
ELU-156			Linear Static	CM-TUBERIA	1,35
ELU-156			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-156			Linear Static	SCU	0,
ELU-156			Linear Static	VTSSC	0,
ELU-156			Linear Static	VTSCSC	0,
ELU-156			Linear Static	VV	0,
ELU-156	Linear Add	No	Linear Static	VLSSC	1,5
ELU-156			Linear Static	VLCSC	0,
ELU-156			Linear Static	TU-DIL	0,
ELU-156			Linear Static	TU-CON	0,315
ELU-156			Linear Static	GRA-HEAT	0,
ELU-156			Linear Static	GRA-COOL	0,9
ELU-157			Linear Static	PP	1,35
ELU-157			Linear Static	CM-TUBERIA	1,35
ELU-157			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-157			Linear Static	SCU	0,
ELU-157			Linear Static	VTSSC	0,
ELU-157			Linear Static	VTSCSC	0,
ELU-157			Linear Static	VV	0,
ELU-157			Linear Static	VLSSC	1,5
ELU-157			Linear Static	VLCSC	0,
ELU-157	Linear Add	No	Linear Static	TU-DIL	0,9
ELU-157			Linear Static	TU-CON	0,
ELU-157			Linear Static	GRA-HEAT	0,675
ELU-157			Linear Static	GRA-COOL	0,
ELU-158			Linear Static	PP	1,35
ELU-158			Linear Static	CM-TUBERIA	1,35
ELU-158			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-158	Linear Add	No	Linear Static	SCU	0,
ELU-158			Linear Static	VTSSC	0,
ELU-158			Linear Static	VTSCC	0,
ELU-158			Linear Static	VV	0,
ELU-158			Linear Static	VLSSC	1,5
ELU-158			Linear Static	VLCSC	0,
ELU-158			Linear Static	TU-DIL	0,
ELU-158			Linear Static	TU-CON	0,9
ELU-158			Linear Static	GRA-HEAT	0,675
ELU-158			Linear Static	GRA-COOL	0,
ELU-159			Linear Static	PP	1,35
ELU-159			Linear Static	CM-TUBERIA	1,35
ELU-159			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-159			Linear Static	SCU	0,
ELU-159			Linear Static	VTSSC	0,
ELU-159	Linear Add	No	Linear Static	VTSCC	0,
ELU-159			Linear Static	VV	0,
ELU-159			Linear Static	VLSSC	1,5
ELU-159			Linear Static	VLCSC	0,
ELU-159			Linear Static	TU-DIL	0,9
ELU-159			Linear Static	TU-CON	0,
ELU-159			Linear Static	GRA-HEAT	0,
ELU-159			Linear Static	GRA-COOL	0,675
ELU-160			Linear Static	PP	1,35
ELU-160			Linear Static	CM-TUBERIA	1,35
ELU-160			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-160			Linear Static	SCU	0,
ELU-160			Linear Static	VTSSC	0,
ELU-160			Linear Static	VTSCC	0,
ELU-160			Linear Static	VV	0,
ELU-160	Linear Add	No	Linear Static	VLSSC	1,5
ELU-160			Linear Static	VLCSC	0,
ELU-160			Linear Static	TU-DIL	0,
ELU-160			Linear Static	TU-CON	0,9
ELU-160			Linear Static	GRA-HEAT	0,
ELU-160			Linear Static	GRA-COOL	0,675
ELU-161			Linear Static	PP	1,35
ELU-161			Linear Static	CM-TUBERIA	1,35
ELU-161			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-161			Linear Static	SCU	0,54
ELU-161			Linear Static	VTSSC	0,
ELU-161			Linear Static	VTSCC	0,
ELU-161			Linear Static	VV	0,
ELU-161			Linear Static	VLSSC	0,
ELU-161			Linear Static	VLCSC	1,5
ELU-161	Linear Add	No	Linear Static	TU-DIL	0,315
ELU-161			Linear Static	TU-CON	0,
ELU-161			Linear Static	GRA-HEAT	0,9
ELU-161			Linear Static	GRA-COOL	0,
ELU-162			Linear Static	PP	1,35
ELU-162			Linear Static	CM-TUBERIA	1,35
ELU-162			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-162			Linear Static	SCU	0,54
ELU-162			Linear Static	VTSSC	0,
ELU-162			Linear Static	VTSCSC	0,
ELU-162			Linear Static	VV	0,
ELU-162			Linear Static	VLSSC	0,
ELU-162			Linear Static	VLCSC	1,5
ELU-162			Linear Static	TU-DIL	0,
ELU-162			Linear Static	TU-CON	0,315
ELU-162			Linear Static	GRA-HEAT	0,9
ELU-162			Linear Static	GRA-COOL	0,
ELU-163	Linear Add	No	Linear Static	PP	1,35
ELU-163			Linear Static	CM-TUBERIA	1,35
ELU-163			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-163			Linear Static	SCU	0,54
ELU-163			Linear Static	VTSSC	0,
ELU-163			Linear Static	VTSCSC	0,
ELU-163			Linear Static	VV	0,
ELU-163			Linear Static	VLSSC	0,
ELU-163			Linear Static	VLCSC	1,5
ELU-163			Linear Static	TU-DIL	0,315
ELU-163			Linear Static	TU-CON	0,
ELU-163			Linear Static	GRA-HEAT	0,
ELU-163			Linear Static	GRA-COOL	0,9
ELU-164	Linear Add	No	Linear Static	PP	1,35
ELU-164			Linear Static	CM-TUBERIA	1,35
ELU-164			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-164			Linear Static	SCU	0,54
ELU-164			Linear Static	VTSSC	0,
ELU-164			Linear Static	VTSCSC	0,
ELU-164			Linear Static	VV	0,
ELU-164			Linear Static	VLSSC	0,
ELU-164			Linear Static	VLCSC	1,5
ELU-164			Linear Static	TU-DIL	0,
ELU-164			Linear Static	TU-CON	0,315
ELU-164			Linear Static	GRA-HEAT	0,
ELU-164			Linear Static	GRA-COOL	0,9
ELU-165	Linear Add	No	Linear Static	PP	1,35
ELU-165			Linear Static	CM-TUBERIA	1,35
ELU-165			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-165			Linear Static	SCU	0,54
ELU-165			Linear Static	VTSSC	0,
ELU-165			Linear Static	VTSCSC	0,
ELU-165			Linear Static	VV	0,
ELU-165			Linear Static	VLSSC	0,
ELU-165			Linear Static	VLCSC	1,5
ELU-165			Linear Static	TU-DIL	0,9
ELU-165			Linear Static	TU-CON	0,
ELU-165			Linear Static	GRA-HEAT	0,675
ELU-165			Linear Static	GRA-COOL	0,
ELU-166	Linear Add	No	Linear Static	PP	1,35
ELU-166			Linear Static	CM-TUBERIA	1,35
ELU-166			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-166	Linear Add	No	Linear Static	SCU	0,54
ELU-166			Linear Static	VTSSC	0,
ELU-166			Linear Static	VTSCC	0,
ELU-166			Linear Static	VV	0,
ELU-166			Linear Static	VLSSC	0,
ELU-166			Linear Static	VLCSC	1,5
ELU-166			Linear Static	TU-DIL	0,
ELU-166			Linear Static	TU-CON	0,9
ELU-166			Linear Static	GRA-HEAT	0,675
ELU-166			Linear Static	GRA-COOL	0,
ELU-167			Linear Static	PP	1,35
ELU-167			Linear Static	CM-TUBERIA	1,35
ELU-167			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-167			Linear Static	SCU	0,54
ELU-167			Linear Static	VTSSC	0,
ELU-167	Linear Add	No	Linear Static	VTSCC	0,
ELU-167			Linear Static	VV	0,
ELU-167			Linear Static	VLSSC	0,
ELU-167			Linear Static	VLCSC	1,5
ELU-167			Linear Static	TU-DIL	0,9
ELU-167			Linear Static	TU-CON	0,
ELU-167			Linear Static	GRA-HEAT	0,
ELU-167			Linear Static	GRA-COOL	0,675
ELU-168			Linear Static	PP	1,35
ELU-168			Linear Static	CM-TUBERIA	1,35
ELU-168			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-168			Linear Static	SCU	0,54
ELU-168			Linear Static	VTSSC	0,
ELU-168			Linear Static	VTSCC	0,
ELU-168			Linear Static	VV	0,
ELU-168	Linear Add	No	Linear Static	VLSSC	0,
ELU-168			Linear Static	VLCSC	1,5
ELU-168			Linear Static	TU-DIL	0,
ELU-168			Linear Static	TU-CON	0,9
ELU-168			Linear Static	GRA-HEAT	0,
ELU-168			Linear Static	GRA-COOL	0,675
ELU-169			Linear Static	PP	1,
ELU-169			Linear Static	CM-TUBERIA	1,
ELU-169			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-169			Linear Static	SCU	0,54
ELU-169			Linear Static	VTSSC	0,
ELU-169			Linear Static	VTSCC	0,
ELU-169			Linear Static	VV	0,
ELU-169			Linear Static	VLSSC	0,
ELU-169			Linear Static	VLCSC	0,
ELU-169	Linear Add	No	Linear Static	TU-DIL	0,315
ELU-169			Linear Static	TU-CON	0,
ELU-169			Linear Static	GRA-HEAT	0,9
ELU-169			Linear Static	GRA-COOL	0,
ELU-170			Linear Static	PP	1,
ELU-170			Linear Static	CM-TUBERIA	1,
ELU-170			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-170	Linear Add	No	Linear Static	SCU	0,54
ELU-170			Linear Static	VTSSC	0,
ELU-170			Linear Static	VTSCSC	0,
ELU-170			Linear Static	VV	0,
ELU-170			Linear Static	VLSSC	0,
ELU-170			Linear Static	VLCS	0,
ELU-170			Linear Static	TU-DIL	0,
ELU-170			Linear Static	TU-CON	0,315
ELU-170			Linear Static	GRA-HEAT	0,9
ELU-170			Linear Static	GRA-COOL	0,
ELU-171			Linear Static	PP	1,
ELU-171			Linear Static	CM-TUBERIA	1,
ELU-171			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-171	Linear Add	No	Linear Static	SCU	0,54
ELU-171			Linear Static	VTSSC	0,
ELU-171			Linear Static	VTSCSC	0,
ELU-171			Linear Static	VV	0,
ELU-171			Linear Static	VLSSC	0,
ELU-171			Linear Static	VLCS	0,
ELU-171			Linear Static	TU-DIL	0,315
ELU-171			Linear Static	TU-CON	0,
ELU-171			Linear Static	GRA-HEAT	0,
ELU-171			Linear Static	GRA-COOL	0,9
ELU-172			Linear Static	PP	1,
ELU-172			Linear Static	CM-TUBERIA	1,
ELU-172			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-172	Linear Add	No	Linear Static	SCU	0,54
ELU-172			Linear Static	VTSSC	0,
ELU-172			Linear Static	VTSCSC	0,
ELU-172			Linear Static	VV	0,
ELU-172			Linear Static	VLSSC	0,
ELU-172			Linear Static	VLCS	0,
ELU-172			Linear Static	TU-DIL	0,
ELU-172			Linear Static	TU-CON	0,315
ELU-172			Linear Static	GRA-HEAT	0,
ELU-172			Linear Static	GRA-COOL	0,9
ELU-173			Linear Static	PP	1,
ELU-173			Linear Static	CM-TUBERIA	1,
ELU-173			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-173	Linear Add	No	Linear Static	SCU	0,54
ELU-173			Linear Static	VTSSC	0,
ELU-173			Linear Static	VTSCSC	0,
ELU-173			Linear Static	VV	0,
ELU-173			Linear Static	VLSSC	0,
ELU-173			Linear Static	VLCS	0,
ELU-173			Linear Static	TU-DIL	0,9
ELU-173			Linear Static	TU-CON	0,
ELU-173			Linear Static	GRA-HEAT	0,675
ELU-173			Linear Static	GRA-COOL	0,
ELU-174			Linear Static	PP	1,
ELU-174			Linear Static	CM-TUBERIA	1,
ELU-174			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-174	Linear Add	No	Linear Static	SCU	0,54
ELU-174			Linear Static	VTSSC	0,
ELU-174			Linear Static	VTSCSC	0,
ELU-174			Linear Static	VV	0,
ELU-174			Linear Static	VLSSC	0,
ELU-174			Linear Static	VLCSC	0,
ELU-174			Linear Static	TU-DIL	0,
ELU-174			Linear Static	TU-CON	0,9
ELU-174			Linear Static	GRA-HEAT	0,675
ELU-174			Linear Static	GRA-COOL	0,
ELU-175			Linear Static	PP	1,
ELU-175			Linear Static	CM-TUBERIA	1,
ELU-175			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-175	Linear Add	No	Linear Static	SCU	0,54
ELU-175			Linear Static	VTSSC	0,
ELU-175			Linear Static	VTSCSC	0,
ELU-175			Linear Static	VV	0,
ELU-175			Linear Static	VLSSC	0,
ELU-175			Linear Static	VLCSC	0,
ELU-175			Linear Static	TU-DIL	0,9
ELU-175			Linear Static	TU-CON	0,
ELU-175			Linear Static	GRA-HEAT	0,
ELU-175			Linear Static	GRA-COOL	0,675
ELU-176			Linear Static	PP	1,
ELU-176			Linear Static	CM-TUBERIA	1,
ELU-176			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-176	Linear Add	No	Linear Static	SCU	0,54
ELU-176			Linear Static	VTSSC	0,
ELU-176			Linear Static	VTSCSC	0,
ELU-176			Linear Static	VV	0,
ELU-176			Linear Static	VLSSC	0,
ELU-176			Linear Static	VLCSC	0,
ELU-176			Linear Static	TU-DIL	0,
ELU-176			Linear Static	TU-CON	0,9
ELU-176			Linear Static	GRA-HEAT	0,
ELU-176			Linear Static	GRA-COOL	0,675
ELU-177			Linear Static	PP	1,
ELU-177			Linear Static	CM-TUBERIA	1,
ELU-177			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-177	Linear Add	No	Linear Static	SCU	0,54
ELU-177			Linear Static	VTSSC	0,
ELU-177			Linear Static	VTSCSC	1,5
ELU-177			Linear Static	VV	0,
ELU-177			Linear Static	VLSSC	0,
ELU-177			Linear Static	VLCSC	0,
ELU-177			Linear Static	TU-DIL	0,315
ELU-177			Linear Static	TU-CON	0,
ELU-177			Linear Static	GRA-HEAT	0,9
ELU-177			Linear Static	GRA-COOL	0,
ELU-178			Linear Static	PP	1,
ELU-178			Linear Static	CM-TUBERIA	1,
ELU-178			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-178	Linear Add	No	Linear Static	SCU	0,54
ELU-178			Linear Static	VTSSC	0,
ELU-178			Linear Static	VTSCSC	1,5
ELU-178			Linear Static	VV	0,
ELU-178			Linear Static	VLSSC	0,
ELU-178			Linear Static	VLCS	0,
ELU-178			Linear Static	TU-DIL	0,
ELU-178			Linear Static	TU-CON	0,315
ELU-178			Linear Static	GRA-HEAT	0,9
ELU-178			Linear Static	GRA-COOL	0,
ELU-179			Linear Static	PP	1,
ELU-179			Linear Static	CM-TUBERIA	1,
ELU-179			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-179			Linear Static	SCU	0,54
ELU-179			Linear Static	VTSSC	0,
ELU-179			Linear Static	VTSCSC	1,5
ELU-179			Linear Static	VV	0,
ELU-179			Linear Static	VLSSC	0,
ELU-179			Linear Static	VLCS	0,
ELU-179			Linear Static	TU-DIL	0,315
ELU-179			Linear Static	TU-CON	0,
ELU-179			Linear Static	GRA-HEAT	0,
ELU-179			Linear Static	GRA-COOL	0,9
ELU-180	Linear Add	No	Linear Static	PP	1,
ELU-180			Linear Static	CM-TUBERIA	1,
ELU-180			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-180			Linear Static	SCU	0,54
ELU-180			Linear Static	VTSSC	0,
ELU-180			Linear Static	VTSCSC	1,5
ELU-180			Linear Static	VV	0,
ELU-180			Linear Static	VLSSC	0,
ELU-180			Linear Static	VLCS	0,
ELU-180			Linear Static	TU-DIL	0,
ELU-180			Linear Static	TU-CON	0,315
ELU-180			Linear Static	GRA-HEAT	0,
ELU-180			Linear Static	GRA-COOL	0,9
ELU-181			Linear Static	PP	1,
ELU-181			Linear Static	CM-TUBERIA	1,
ELU-181			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-181			Linear Static	SCU	0,54
ELU-181			Linear Static	VTSSC	0,
ELU-181			Linear Static	VTSCSC	1,5
ELU-181			Linear Static	VV	0,
ELU-181			Linear Static	VLSSC	0,
ELU-181			Linear Static	VLCS	0,
ELU-181			Linear Static	TU-DIL	0,9
ELU-181			Linear Static	TU-CON	0,
ELU-181			Linear Static	GRA-HEAT	0,675
ELU-181			Linear Static	GRA-COOL	0,
ELU-182	Linear Add	No	Linear Static	PP	1,
ELU-182			Linear Static	CM-TUBERIA	1,
ELU-182			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-182	Linear Add	No	Linear Static	SCU	0,54
ELU-182			Linear Static	VTSSC	0,
ELU-182			Linear Static	VTSCSC	1,5
ELU-182			Linear Static	VV	0,
ELU-182			Linear Static	VLSSC	0,
ELU-182			Linear Static	VLCSC	0,
ELU-182			Linear Static	TU-DIL	0,
ELU-182			Linear Static	TU-CON	0,9
ELU-182			Linear Static	GRA-HEAT	0,675
ELU-182			Linear Static	GRA-COOL	0,
ELU-183			Linear Static	PP	1,
ELU-183			Linear Static	CM-TUBERIA	1,
ELU-183	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELU-183			Linear Static	SCU	0,54
ELU-183			Linear Static	VTSSC	0,
ELU-183			Linear Static	VTSCSC	1,5
ELU-183			Linear Static	VV	0,
ELU-183			Linear Static	VLSSC	0,
ELU-183			Linear Static	VLCSC	0,
ELU-183			Linear Static	TU-DIL	0,9
ELU-183			Linear Static	TU-CON	0,
ELU-183			Linear Static	GRA-HEAT	0,
ELU-183			Linear Static	GRA-COOL	0,675
ELU-184			Linear Static	PP	1,
ELU-184	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-184			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-184			Linear Static	SCU	0,54
ELU-184			Linear Static	VTSSC	0,
ELU-184			Linear Static	VTSCSC	1,5
ELU-184			Linear Static	VV	0,
ELU-184			Linear Static	VLSSC	0,
ELU-184			Linear Static	VLCSC	0,
ELU-184			Linear Static	TU-DIL	0,
ELU-184			Linear Static	TU-CON	0,9
ELU-184			Linear Static	GRA-HEAT	0,
ELU-184			Linear Static	GRA-COOL	0,675
ELU-185	Linear Add	No	Linear Static	PP	1,
ELU-185			Linear Static	CM-TUBERIA	1,
ELU-185			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-185			Linear Static	SCU	0,54
ELU-185			Linear Static	VTSSC	0,
ELU-185			Linear Static	VTSCSC	1,5
ELU-185			Linear Static	VV	1,5
ELU-185			Linear Static	VLSSC	0,
ELU-185			Linear Static	VLCSC	0,
ELU-185			Linear Static	TU-DIL	0,315
ELU-185			Linear Static	TU-CON	0,
ELU-185			Linear Static	GRA-HEAT	0,9
ELU-185	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-186			Linear Static	PP	1,
ELU-186			Linear Static	CM-TUBERIA	1,
ELU-186			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-186	Linear Add	No	Linear Static	SCU	0,54
ELU-186			Linear Static	VTSSC	0,
ELU-186			Linear Static	VTSCSC	1,5
ELU-186			Linear Static	VV	1,5
ELU-186			Linear Static	VLSSC	0,
ELU-186			Linear Static	VLCSC	0,
ELU-186			Linear Static	TU-DIL	0,
ELU-186			Linear Static	TU-CON	0,315
ELU-186			Linear Static	GRA-HEAT	0,9
ELU-186			Linear Static	GRA-COOL	0,
ELU-187			Linear Static	PP	1,
ELU-187			Linear Static	CM-TUBERIA	1,
ELU-187			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-187			Linear Static	SCU	0,54
ELU-187			Linear Static	VTSSC	0,
ELU-187	Linear Add	No	Linear Static	VTSCSC	1,5
ELU-187			Linear Static	VV	1,5
ELU-187			Linear Static	VLSSC	0,
ELU-187			Linear Static	VLCSC	0,
ELU-187			Linear Static	TU-DIL	0,315
ELU-187			Linear Static	TU-CON	0,
ELU-187			Linear Static	GRA-HEAT	0,
ELU-187			Linear Static	GRA-COOL	0,9
ELU-188			Linear Static	PP	1,
ELU-188			Linear Static	CM-TUBERIA	1,
ELU-188			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-188			Linear Static	SCU	0,54
ELU-188			Linear Static	VTSSC	0,
ELU-188			Linear Static	VTSCSC	1,5
ELU-188			Linear Static	VV	1,5
ELU-188	Linear Add	No	Linear Static	VLSSC	0,
ELU-188			Linear Static	VLCSC	0,
ELU-188			Linear Static	TU-DIL	0,
ELU-188			Linear Static	TU-CON	0,315
ELU-188			Linear Static	GRA-HEAT	0,
ELU-188			Linear Static	GRA-COOL	0,9
ELU-189			Linear Static	PP	1,
ELU-189			Linear Static	CM-TUBERIA	1,
ELU-189			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-189			Linear Static	SCU	0,54
ELU-189			Linear Static	VTSSC	0,
ELU-189			Linear Static	VTSCSC	1,5
ELU-189			Linear Static	VV	1,5
ELU-189			Linear Static	VLSSC	0,
ELU-189			Linear Static	VLCSC	0,
ELU-189	Linear Add	No	Linear Static	TU-DIL	0,9
ELU-189			Linear Static	TU-CON	0,
ELU-189			Linear Static	GRA-HEAT	0,675
ELU-189			Linear Static	GRA-COOL	0,
ELU-190			Linear Static	PP	1,
ELU-190			Linear Static	CM-TUBERIA	1,
ELU-190			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-190	Linear Add	No	Linear Static	SCU	0,54
ELU-190			Linear Static	VTSSC	0,
ELU-190			Linear Static	VTSCSC	1,5
ELU-190			Linear Static	VV	1,5
ELU-190			Linear Static	VLSSC	0,
ELU-190			Linear Static	VLCSC	0,
ELU-190			Linear Static	TU-DIL	0,
ELU-190			Linear Static	TU-CON	0,9
ELU-190			Linear Static	GRA-HEAT	0,675
ELU-190			Linear Static	GRA-COOL	0,
ELU-191			Linear Static	PP	1,
ELU-191			Linear Static	CM-TUBERIA	1,
ELU-191			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-191			Linear Static	SCU	0,54
ELU-191			Linear Static	VTSSC	0,
ELU-191			Linear Static	VTSCSC	1,5
ELU-191			Linear Static	VV	1,5
ELU-191			Linear Static	VLSSC	0,
ELU-191			Linear Static	VLCSC	0,
ELU-191			Linear Static	TU-DIL	0,9
ELU-191			Linear Static	TU-CON	0,
ELU-191			Linear Static	GRA-HEAT	0,
ELU-191			Linear Static	GRA-COOL	0,675
ELU-192	Linear Add	No	Linear Static	PP	1,
ELU-192			Linear Static	CM-TUBERIA	1,
ELU-192			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-192			Linear Static	SCU	0,54
ELU-192			Linear Static	VTSSC	0,
ELU-192			Linear Static	VTSCSC	1,5
ELU-192			Linear Static	VV	1,5
ELU-192			Linear Static	VLSSC	0,
ELU-192			Linear Static	VLCSC	0,
ELU-192			Linear Static	TU-DIL	0,
ELU-192			Linear Static	TU-CON	0,9
ELU-192			Linear Static	GRA-HEAT	0,
ELU-192			Linear Static	GRA-COOL	0,675
ELU-193			Linear Static	PP	1,
ELU-193			Linear Static	CM-TUBERIA	1,
ELU-193			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-193			Linear Static	SCU	0,
ELU-193			Linear Static	VTSSC	1,5
ELU-193			Linear Static	VTSCSC	0,
ELU-193			Linear Static	VV	0,
ELU-193			Linear Static	VLSSC	0,
ELU-193			Linear Static	VLCSC	0,
ELU-193			Linear Static	TU-DIL	0,315
ELU-193			Linear Static	TU-CON	0,
ELU-193			Linear Static	GRA-HEAT	0,9
ELU-193			Linear Static	GRA-COOL	0,
ELU-194	Linear Add	No	Linear Static	PP	1,
ELU-194			Linear Static	CM-TUBERIA	1,
ELU-194			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-194	Linear Add	No	Linear Static	SCU	0,
ELU-194			Linear Static	VTSSC	1,5
ELU-194			Linear Static	VTSCSC	0,
ELU-194			Linear Static	VV	0,
ELU-194			Linear Static	VLSSC	0,
ELU-194			Linear Static	VLCSC	0,
ELU-194			Linear Static	TU-DIL	0,
ELU-194			Linear Static	TU-CON	0,315
ELU-194			Linear Static	GRA-HEAT	0,9
ELU-194			Linear Static	GRA-COOL	0,
ELU-195			Linear Static	PP	1,
ELU-195			Linear Static	CM-TUBERIA	1,
ELU-195			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-195			Linear Static	SCU	0,
ELU-195			Linear Static	VTSSC	1,5
ELU-195	Linear Add	No	Linear Static	VTSCSC	0,
ELU-195			Linear Static	VV	0,
ELU-195			Linear Static	VLSSC	0,
ELU-195			Linear Static	VLCSC	0,
ELU-195			Linear Static	TU-DIL	0,315
ELU-195			Linear Static	TU-CON	0,
ELU-195			Linear Static	GRA-HEAT	0,
ELU-195			Linear Static	GRA-COOL	0,9
ELU-196			Linear Static	PP	1,
ELU-196			Linear Static	CM-TUBERIA	1,
ELU-196			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-196			Linear Static	SCU	0,
ELU-196			Linear Static	VTSSC	1,5
ELU-196			Linear Static	VTSCSC	0,
ELU-196			Linear Static	VV	0,
ELU-196	Linear Add	No	Linear Static	VLSSC	0,
ELU-196			Linear Static	VLCSC	0,
ELU-196			Linear Static	TU-DIL	0,
ELU-196			Linear Static	TU-CON	0,315
ELU-196			Linear Static	GRA-HEAT	0,
ELU-196			Linear Static	GRA-COOL	0,9
ELU-197			Linear Static	PP	1,
ELU-197			Linear Static	CM-TUBERIA	1,
ELU-197			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-197			Linear Static	SCU	0,
ELU-197			Linear Static	VTSSC	1,5
ELU-197			Linear Static	VTSCSC	0,
ELU-197			Linear Static	VV	0,
ELU-197			Linear Static	VLSSC	0,
ELU-197			Linear Static	VLCSC	0,
ELU-197	Linear Add	No	Linear Static	TU-DIL	0,9
ELU-197			Linear Static	TU-CON	0,
ELU-197			Linear Static	GRA-HEAT	0,675
ELU-197			Linear Static	GRA-COOL	0,
ELU-198			Linear Static	PP	1,
ELU-198			Linear Static	CM-TUBERIA	1,
ELU-198			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-198	Linear Add	No	Linear Static	SCU	0,
ELU-198			Linear Static	VTSSC	1,5
ELU-198			Linear Static	VTSCSC	0,
ELU-198			Linear Static	VV	0,
ELU-198			Linear Static	VLSSC	0,
ELU-198			Linear Static	VLCSC	0,
ELU-198			Linear Static	TU-DIL	0,
ELU-198			Linear Static	TU-CON	0,9
ELU-198			Linear Static	GRA-HEAT	0,675
ELU-198			Linear Static	GRA-COOL	0,
ELU-199	Linear Add	No	Linear Static	PP	1,
ELU-199			Linear Static	CM-TUBERIA	1,
ELU-199			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-199			Linear Static	SCU	0,
ELU-199			Linear Static	VTSSC	1,5
ELU-199			Linear Static	VTSCSC	0,
ELU-199			Linear Static	VV	0,
ELU-199			Linear Static	VLSSC	0,
ELU-199			Linear Static	VLCSC	0,
ELU-199			Linear Static	TU-DIL	0,9
ELU-199	Linear Add	No	Linear Static	TU-CON	0,
ELU-199			Linear Static	GRA-HEAT	0,
ELU-199			Linear Static	GRA-COOL	0,675
ELU-200			Linear Static	PP	1,
ELU-200			Linear Static	CM-TUBERIA	1,
ELU-200			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-200			Linear Static	SCU	0,
ELU-200			Linear Static	VTSSC	1,5
ELU-200			Linear Static	VTSCSC	0,
ELU-200			Linear Static	VV	0,
ELU-200	Linear Add	No	Linear Static	VLSSC	0,
ELU-200			Linear Static	VLCSC	0,
ELU-200			Linear Static	TU-DIL	0,
ELU-200			Linear Static	TU-CON	0,9
ELU-200			Linear Static	GRA-HEAT	0,
ELU-200			Linear Static	GRA-COOL	0,675
ELU-201			Linear Static	PP	1,
ELU-201			Linear Static	CM-TUBERIA	1,
ELU-201			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-201			Linear Static	SCU	0,
ELU-201	Linear Add	No	Linear Static	VTSSC	1,5
ELU-201			Linear Static	VTSCSC	0,
ELU-201			Linear Static	VV	1,5
ELU-201			Linear Static	VLSSC	0,
ELU-201			Linear Static	VLCSC	0,
ELU-201			Linear Static	TU-DIL	0,315
ELU-201			Linear Static	TU-CON	0,
ELU-201			Linear Static	GRA-HEAT	0,9
ELU-201			Linear Static	GRA-COOL	0,
ELU-202			Linear Static	PP	1,
ELU-202	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-202			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-202			Linear Static	SCU	0,
ELU-202			Linear Static	VTSSC	1,5
ELU-202			Linear Static	VTSCSC	0,
ELU-202			Linear Static	VV	1,5
ELU-202			Linear Static	VLSSC	0,
ELU-202			Linear Static	VLCS	0,
ELU-202			Linear Static	TU-DIL	0,
ELU-202			Linear Static	TU-CON	0,315
ELU-202			Linear Static	GRA-HEAT	0,9
ELU-202			Linear Static	GRA-COOL	0,
ELU-203	Linear Add	No	Linear Static	PP	1,
ELU-203			Linear Static	CM-TUBERIA	1,
ELU-203			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-203			Linear Static	SCU	0,
ELU-203			Linear Static	VTSSC	1,5
ELU-203			Linear Static	VTSCSC	0,
ELU-203			Linear Static	VV	1,5
ELU-203			Linear Static	VLSSC	0,
ELU-203			Linear Static	VLCS	0,
ELU-203			Linear Static	TU-DIL	0,315
ELU-203			Linear Static	TU-CON	0,
ELU-203			Linear Static	GRA-HEAT	0,
ELU-203			Linear Static	GRA-COOL	0,9
ELU-204	Linear Add	No	Linear Static	PP	1,
ELU-204			Linear Static	CM-TUBERIA	1,
ELU-204			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-204			Linear Static	SCU	0,
ELU-204			Linear Static	VTSSC	1,5
ELU-204			Linear Static	VTSCSC	0,
ELU-204			Linear Static	VV	1,5
ELU-204			Linear Static	VLSSC	0,
ELU-204			Linear Static	VLCS	0,
ELU-204			Linear Static	TU-DIL	0,
ELU-204			Linear Static	TU-CON	0,315
ELU-204			Linear Static	GRA-HEAT	0,
ELU-204			Linear Static	GRA-COOL	0,9
ELU-205	Linear Add	No	Linear Static	PP	1,
ELU-205			Linear Static	CM-TUBERIA	1,
ELU-205			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-205			Linear Static	SCU	0,
ELU-205			Linear Static	VTSSC	1,5
ELU-205			Linear Static	VTSCSC	0,
ELU-205			Linear Static	VV	1,5
ELU-205			Linear Static	VLSSC	0,
ELU-205			Linear Static	VLCS	0,
ELU-205			Linear Static	TU-DIL	0,9
ELU-205			Linear Static	TU-CON	0,
ELU-205			Linear Static	GRA-HEAT	0,675
ELU-205			Linear Static	GRA-COOL	0,
ELU-206	Linear Add	No	Linear Static	PP	1,
ELU-206			Linear Static	CM-TUBERIA	1,
ELU-206			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-206	Linear Add	No	Linear Static	SCU	0,
ELU-206			Linear Static	VTSSC	1,5
ELU-206			Linear Static	VTSCSC	0,
ELU-206			Linear Static	VV	1,5
ELU-206			Linear Static	VLSSC	0,
ELU-206			Linear Static	VLCSC	0,
ELU-206			Linear Static	TU-DIL	0,
ELU-206			Linear Static	TU-CON	0,9
ELU-206			Linear Static	GRA-HEAT	0,675
ELU-206			Linear Static	GRA-COOL	0,
ELU-207	Linear Add	No	Linear Static	PP	1,
ELU-207			Linear Static	CM-TUBERIA	1,
ELU-207			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-207			Linear Static	SCU	0,
ELU-207			Linear Static	VTSSC	1,5
ELU-207			Linear Static	VTSCSC	0,
ELU-207			Linear Static	VV	1,5
ELU-207			Linear Static	VLSSC	0,
ELU-207			Linear Static	VLCSC	0,
ELU-207			Linear Static	TU-DIL	0,9
ELU-207	Linear Add	No	Linear Static	TU-CON	0,
ELU-207			Linear Static	GRA-HEAT	0,
ELU-207			Linear Static	GRA-COOL	0,675
ELU-208			Linear Static	PP	1,
ELU-208			Linear Static	CM-TUBERIA	1,
ELU-208			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-208			Linear Static	SCU	0,
ELU-208			Linear Static	VTSSC	1,5
ELU-208			Linear Static	VTSCSC	0,
ELU-208			Linear Static	VV	1,5
ELU-208	Linear Add	No	Linear Static	VLSSC	0,
ELU-208			Linear Static	VLCSC	0,
ELU-208			Linear Static	TU-DIL	0,
ELU-208			Linear Static	TU-CON	0,9
ELU-208			Linear Static	GRA-HEAT	0,
ELU-208			Linear Static	GRA-COOL	0,675
ELU-209			Linear Static	PP	1,
ELU-209			Linear Static	CM-TUBERIA	1,
ELU-209			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-209			Linear Static	SCU	0,
ELU-209	Linear Add	No	Linear Static	VTSSC	0,
ELU-209			Linear Static	VTSCSC	0,
ELU-209			Linear Static	VV	0,
ELU-209			Linear Static	VLSSC	1,5
ELU-209			Linear Static	VLCSC	0,
ELU-209			Linear Static	TU-DIL	0,315
ELU-209			Linear Static	TU-CON	0,
ELU-209			Linear Static	GRA-HEAT	0,9
ELU-209			Linear Static	GRA-COOL	0,
ELU-210			Linear Static	PP	1,
ELU-210	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-210			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-210			Linear Static	SCU	0,
ELU-210			Linear Static	VTSSC	0,
ELU-210			Linear Static	VTSCSC	0,
ELU-210			Linear Static	VV	0,
ELU-210			Linear Static	VLSSC	1,5
ELU-210			Linear Static	VLCS	0,
ELU-210			Linear Static	TU-DIL	0,
ELU-210			Linear Static	TU-CON	0,315
ELU-210			Linear Static	GRA-HEAT	0,9
ELU-210			Linear Static	GRA-COOL	0,
ELU-211	Linear Add	No	Linear Static	PP	1,
ELU-211			Linear Static	CM-TUBERIA	1,
ELU-211			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-211			Linear Static	SCU	0,
ELU-211			Linear Static	VTSSC	0,
ELU-211			Linear Static	VTSCSC	0,
ELU-211			Linear Static	VV	0,
ELU-211			Linear Static	VLSSC	1,5
ELU-211			Linear Static	VLCS	0,
ELU-211			Linear Static	TU-DIL	0,315
ELU-211			Linear Static	TU-CON	0,
ELU-211			Linear Static	GRA-HEAT	0,
ELU-211			Linear Static	GRA-COOL	0,9
ELU-212	Linear Add	No	Linear Static	PP	1,
ELU-212			Linear Static	CM-TUBERIA	1,
ELU-212			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-212			Linear Static	SCU	0,
ELU-212			Linear Static	VTSSC	0,
ELU-212			Linear Static	VTSCSC	0,
ELU-212			Linear Static	VV	0,
ELU-212			Linear Static	VLSSC	1,5
ELU-212			Linear Static	VLCS	0,
ELU-212			Linear Static	TU-DIL	0,
ELU-212			Linear Static	TU-CON	0,315
ELU-212			Linear Static	GRA-HEAT	0,
ELU-212			Linear Static	GRA-COOL	0,9
ELU-213	Linear Add	No	Linear Static	PP	1,
ELU-213			Linear Static	CM-TUBERIA	1,
ELU-213			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-213			Linear Static	SCU	0,
ELU-213			Linear Static	VTSSC	0,
ELU-213			Linear Static	VTSCSC	0,
ELU-213			Linear Static	VV	0,
ELU-213			Linear Static	VLSSC	1,5
ELU-213			Linear Static	VLCS	0,
ELU-213			Linear Static	TU-DIL	0,9
ELU-213			Linear Static	TU-CON	0,
ELU-213			Linear Static	GRA-HEAT	0,675
ELU-213			Linear Static	GRA-COOL	0,
ELU-214	Linear Add	No	Linear Static	PP	1,
ELU-214			Linear Static	CM-TUBERIA	1,
ELU-214			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-214	Linear Add	No	Linear Static	SCU	0,
ELU-214			Linear Static	VTSSC	0,
ELU-214			Linear Static	VTSCSC	0,
ELU-214			Linear Static	VV	0,
ELU-214			Linear Static	VLSSC	1,5
ELU-214			Linear Static	VLCSC	0,
ELU-214			Linear Static	TU-DIL	0,
ELU-214			Linear Static	TU-CON	0,9
ELU-214			Linear Static	GRA-HEAT	0,675
ELU-214			Linear Static	GRA-COOL	0,
ELU-215	Linear Add	No	Linear Static	PP	1,
ELU-215			Linear Static	CM-TUBERIA	1,
ELU-215			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-215			Linear Static	SCU	0,
ELU-215			Linear Static	VTSSC	0,
ELU-215			Linear Static	VTSCSC	0,
ELU-215			Linear Static	VV	0,
ELU-215			Linear Static	VLSSC	1,5
ELU-215			Linear Static	VLCSC	0,
ELU-215			Linear Static	TU-DIL	0,9
ELU-215	Linear Add	No	Linear Static	TU-CON	0,
ELU-215			Linear Static	GRA-HEAT	0,
ELU-215			Linear Static	GRA-COOL	0,675
ELU-216			Linear Static	PP	1,
ELU-216			Linear Static	CM-TUBERIA	1,
ELU-216			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-216			Linear Static	SCU	0,
ELU-216			Linear Static	VTSSC	0,
ELU-216			Linear Static	VTSCSC	0,
ELU-216			Linear Static	VV	0,
ELU-216	Linear Add	No	Linear Static	VLSSC	1,5
ELU-216			Linear Static	VLCSC	0,
ELU-216			Linear Static	TU-DIL	0,
ELU-216			Linear Static	TU-CON	0,9
ELU-216			Linear Static	GRA-HEAT	0,
ELU-216			Linear Static	GRA-COOL	0,675
ELU-217			Linear Static	PP	1,
ELU-217			Linear Static	CM-TUBERIA	1,
ELU-217			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-217			Linear Static	SCU	0,54
ELU-217	Linear Add	No	Linear Static	VTSSC	0,
ELU-217			Linear Static	VTSCSC	0,
ELU-217			Linear Static	VV	0,
ELU-217			Linear Static	VLSSC	0,
ELU-217			Linear Static	VLCSC	1,5
ELU-217			Linear Static	TU-DIL	0,315
ELU-217			Linear Static	TU-CON	0,
ELU-217			Linear Static	GRA-HEAT	0,9
ELU-217			Linear Static	GRA-COOL	0,
ELU-218			Linear Static	PP	1,
ELU-218	Linear Add	No	Linear Static	CM-TUBERIA	1,
ELU-218			Linear Static	CM- TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-218	Linear Add	No	Linear Static	SCU	0,54
ELU-218			Linear Static	VTSSC	0,
ELU-218			Linear Static	VTSCSC	0,
ELU-218			Linear Static	VV	0,
ELU-218			Linear Static	VLSSC	0,
ELU-218			Linear Static	VLCS	1,5
ELU-218			Linear Static	TU-DIL	0,
ELU-218			Linear Static	TU-CON	0,315
ELU-218			Linear Static	GRA-HEAT	0,9
ELU-218			Linear Static	GRA-COOL	0,
ELU-219			Linear Static	PP	1,
ELU-219			Linear Static	CM-TUBERIA	1,
ELU-219			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-219	Linear Add	No	Linear Static	SCU	0,54
ELU-219			Linear Static	VTSSC	0,
ELU-219			Linear Static	VTSCSC	0,
ELU-219			Linear Static	VV	0,
ELU-219			Linear Static	VLSSC	0,
ELU-219			Linear Static	VLCS	1,5
ELU-219			Linear Static	TU-DIL	0,315
ELU-219			Linear Static	TU-CON	0,
ELU-219			Linear Static	GRA-HEAT	0,
ELU-219			Linear Static	GRA-COOL	0,9
ELU-220			Linear Static	PP	1,
ELU-220			Linear Static	CM-TUBERIA	1,
ELU-220			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-220	Linear Add	No	Linear Static	SCU	0,54
ELU-220			Linear Static	VTSSC	0,
ELU-220			Linear Static	VTSCSC	0,
ELU-220			Linear Static	VV	0,
ELU-220			Linear Static	VLSSC	0,
ELU-220			Linear Static	VLCS	1,5
ELU-220			Linear Static	TU-DIL	0,
ELU-220			Linear Static	TU-CON	0,315
ELU-220			Linear Static	GRA-HEAT	0,
ELU-220			Linear Static	GRA-COOL	0,9
ELU-221			Linear Static	PP	1,
ELU-221			Linear Static	CM-TUBERIA	1,
ELU-221			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-221	Linear Add	No	Linear Static	SCU	0,54
ELU-221			Linear Static	VTSSC	0,
ELU-221			Linear Static	VTSCSC	0,
ELU-221			Linear Static	VV	0,
ELU-221			Linear Static	VLSSC	0,
ELU-221			Linear Static	VLCS	1,5
ELU-221			Linear Static	TU-DIL	0,9
ELU-221			Linear Static	TU-CON	0,
ELU-221			Linear Static	GRA-HEAT	0,675
ELU-221			Linear Static	GRA-COOL	0,
ELU-222			Linear Static	PP	1,
ELU-222			Linear Static	CM-TUBERIA	1,
ELU-222			Linear Static	CM-TRAMEX+REJILLA	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-222	Linear Add	No	Linear Static	SCU	0,54
ELU-222			Linear Static	VTSSC	0,
ELU-222			Linear Static	VTSCSC	0,
ELU-222			Linear Static	VV	0,
ELU-222			Linear Static	VLSSC	0,
ELU-222			Linear Static	VLCSC	1,5
ELU-222			Linear Static	TU-DIL	0,
ELU-222			Linear Static	TU-CON	0,9
ELU-222			Linear Static	GRA-HEAT	0,675
ELU-222			Linear Static	GRA-COOL	0,
ELU-223			Linear Static	PP	1,
ELU-223			Linear Static	CM-TUBERIA	1,
ELU-223			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-223			Linear Static	SCU	0,54
ELU-223			Linear Static	VTSSC	0,
ELU-223	Linear Add	No	Linear Static	VTSCSC	0,
ELU-223			Linear Static	VV	0,
ELU-223			Linear Static	VLSSC	0,
ELU-223			Linear Static	VLCSC	1,5
ELU-223			Linear Static	TU-DIL	0,9
ELU-223			Linear Static	TU-CON	0,
ELU-223			Linear Static	GRA-HEAT	0,
ELU-223			Linear Static	GRA-COOL	0,675
ELU-224			Linear Static	PP	1,
ELU-224			Linear Static	CM-TUBERIA	1,
ELU-224			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-224			Linear Static	SCU	0,54
ELU-224			Linear Static	VTSSC	0,
ELU-224			Linear Static	VTSCSC	0,
ELU-224			Linear Static	VV	0,
ELU-224			Linear Static	VLSSC	0,
ELU-224			Linear Static	VLCSC	1,5
ELU-224			Linear Static	TU-DIL	0,
ELU-224			Linear Static	TU-CON	0,9
ELU-224			Linear Static	GRA-HEAT	0,
ELU-224			Linear Static	GRA-COOL	0,675
ELU-225	Linear Add	No	Linear Static	PP	1,35
ELU-225			Linear Static	CM-TUBERIA	1,35
ELU-225			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-225			Linear Static	SCU	0,54
ELU-225			Linear Static	VTSSC	0,
ELU-225			Linear Static	VTSCSC	0,
ELU-225			Linear Static	VV	0,
ELU-225			Linear Static	VLSSC	0,
ELU-225			Linear Static	VLCSC	0,
ELU-225			Linear Static	TU-DIL	0,525
ELU-225			Linear Static	TU-CON	0,
ELU-225			Linear Static	GRA-HEAT	1,5
ELU-225			Linear Static	GRA-COOL	0,
ELU-226			Linear Static	PP	1,35
ELU-226			Linear Static	CM-TUBERIA	1,35
ELU-226			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-226	Linear Add	No	Linear Static	SCU	0,54
ELU-226			Linear Static	VTSSC	0,
ELU-226			Linear Static	VTSCSC	0,
ELU-226			Linear Static	VV	0,
ELU-226			Linear Static	VLSSC	0,
ELU-226			Linear Static	VLCSC	0,
ELU-226			Linear Static	TU-DIL	0,
ELU-226			Linear Static	TU-CON	0,525
ELU-226			Linear Static	GRA-HEAT	1,5
ELU-226			Linear Static	GRA-COOL	0,
ELU-227			Linear Static	PP	1,35
ELU-227			Linear Static	CM-TUBERIA	1,35
ELU-227			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-227	Linear Add	No	Linear Static	SCU	0,54
ELU-227			Linear Static	VTSSC	0,
ELU-227			Linear Static	VTSCSC	0,
ELU-227			Linear Static	VV	0,
ELU-227			Linear Static	VLSSC	0,
ELU-227			Linear Static	VLCSC	0,
ELU-227			Linear Static	TU-DIL	0,525
ELU-227			Linear Static	TU-CON	0,
ELU-227			Linear Static	GRA-HEAT	0,
ELU-227			Linear Static	GRA-COOL	1,5
ELU-228			Linear Static	PP	1,35
ELU-228			Linear Static	CM-TUBERIA	1,35
ELU-228			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-228	Linear Add	No	Linear Static	SCU	0,54
ELU-228			Linear Static	VTSSC	0,
ELU-228			Linear Static	VTSCSC	0,
ELU-228			Linear Static	VV	0,
ELU-228			Linear Static	VLSSC	0,
ELU-228			Linear Static	VLCSC	0,
ELU-228			Linear Static	TU-DIL	0,
ELU-228			Linear Static	TU-CON	0,525
ELU-228			Linear Static	GRA-HEAT	0,
ELU-228			Linear Static	GRA-COOL	1,5
ELU-229			Linear Static	PP	1,35
ELU-229			Linear Static	CM-TUBERIA	1,35
ELU-229			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-229	Linear Add	No	Linear Static	SCU	0,54
ELU-229			Linear Static	VTSSC	0,
ELU-229			Linear Static	VTSCSC	0,
ELU-229			Linear Static	VV	0,
ELU-229			Linear Static	VLSSC	0,
ELU-229			Linear Static	VLCSC	0,
ELU-229			Linear Static	TU-DIL	1,5
ELU-229			Linear Static	TU-CON	0,
ELU-229			Linear Static	GRA-HEAT	1,125
ELU-229			Linear Static	GRA-COOL	0,
ELU-230			Linear Static	PP	1,35
ELU-230			Linear Static	CM-TUBERIA	1,35
ELU-230			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-230	Linear Add	No	Linear Static	SCU	0,54
ELU-230			Linear Static	VTSSC	0,
ELU-230			Linear Static	VTSCSC	0,
ELU-230			Linear Static	VV	0,
ELU-230			Linear Static	VLSSC	0,
ELU-230			Linear Static	VLCSC	0,
ELU-230			Linear Static	TU-DIL	0,
ELU-230			Linear Static	TU-CON	1,5
ELU-230			Linear Static	GRA-HEAT	1,125
ELU-230			Linear Static	GRA-COOL	0,
ELU-231			Linear Static	PP	1,35
ELU-231			Linear Static	CM-TUBERIA	1,35
ELU-231			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-231			Linear Static	SCU	0,54
ELU-231			Linear Static	VTSSC	0,
ELU-231	Linear Add	No	Linear Static	VTSCSC	0,
ELU-231			Linear Static	VV	0,
ELU-231			Linear Static	VLSSC	0,
ELU-231			Linear Static	VLCSC	0,
ELU-231			Linear Static	TU-DIL	1,5
ELU-231			Linear Static	TU-CON	0,
ELU-231			Linear Static	GRA-HEAT	0,
ELU-231			Linear Static	GRA-COOL	1,125
ELU-232			Linear Static	PP	1,35
ELU-232			Linear Static	CM-TUBERIA	1,35
ELU-232			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-232			Linear Static	SCU	0,54
ELU-232			Linear Static	VTSSC	0,
ELU-232			Linear Static	VTSCSC	0,
ELU-232			Linear Static	VV	0,
ELU-232	Linear Add	No	Linear Static	VLSSC	0,
ELU-232			Linear Static	VLCSC	0,
ELU-232			Linear Static	TU-DIL	0,
ELU-232			Linear Static	TU-CON	1,5
ELU-232			Linear Static	GRA-HEAT	0,
ELU-232			Linear Static	GRA-COOL	1,125
ELU-233			Linear Static	PP	1,35
ELU-233			Linear Static	CM-TUBERIA	1,35
ELU-233			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-233			Linear Static	SCU	0,54
ELU-233			Linear Static	VTSSC	0,
ELU-233			Linear Static	VTSCSC	0,45
ELU-233			Linear Static	VV	0,
ELU-233			Linear Static	VLSSC	0,
ELU-233			Linear Static	VLCSC	0,
ELU-233	Linear Add	No	Linear Static	TU-DIL	0,525
ELU-233			Linear Static	TU-CON	0,
ELU-233			Linear Static	GRA-HEAT	1,5
ELU-233			Linear Static	GRA-COOL	0,
ELU-234			Linear Static	PP	1,35
ELU-234			Linear Static	CM-TUBERIA	1,35
ELU-234			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-234	Linear Add	No	Linear Static	SCU	0,54
ELU-234			Linear Static	VTSSC	0,
ELU-234			Linear Static	VTSCSC	0,45
ELU-234			Linear Static	VV	0,
ELU-234			Linear Static	VLSSC	0,
ELU-234			Linear Static	VLCSC	0,
ELU-234			Linear Static	TU-DIL	0,
ELU-234			Linear Static	TU-CON	0,525
ELU-234			Linear Static	GRA-HEAT	1,5
ELU-234			Linear Static	GRA-COOL	0,
ELU-235			Linear Static	PP	1,35
ELU-235			Linear Static	CM-TUBERIA	1,35
ELU-235	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-235			Linear Static	SCU	0,54
ELU-235			Linear Static	VTSSC	0,
ELU-235			Linear Static	VTSCSC	0,45
ELU-235			Linear Static	VV	0,
ELU-235			Linear Static	VLSSC	0,
ELU-235			Linear Static	VLCSC	0,
ELU-235			Linear Static	TU-DIL	0,525
ELU-235			Linear Static	TU-CON	0,
ELU-235			Linear Static	GRA-HEAT	0,
ELU-235			Linear Static	GRA-COOL	1,5
ELU-236			Linear Static	PP	1,35
ELU-236	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-236			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-236			Linear Static	SCU	0,54
ELU-236			Linear Static	VTSSC	0,
ELU-236			Linear Static	VTSCSC	0,45
ELU-236			Linear Static	VV	0,
ELU-236			Linear Static	VLSSC	0,
ELU-236			Linear Static	VLCSC	0,
ELU-236			Linear Static	TU-DIL	0,
ELU-236			Linear Static	TU-CON	0,525
ELU-236			Linear Static	GRA-HEAT	0,
ELU-236			Linear Static	GRA-COOL	1,5
ELU-237	Linear Add	No	Linear Static	PP	1,35
ELU-237			Linear Static	CM-TUBERIA	1,35
ELU-237			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-237			Linear Static	SCU	0,54
ELU-237			Linear Static	VTSSC	0,
ELU-237			Linear Static	VTSCSC	0,45
ELU-237			Linear Static	VV	0,
ELU-237			Linear Static	VLSSC	0,
ELU-237			Linear Static	VLCSC	0,
ELU-237			Linear Static	TU-DIL	1,5
ELU-237			Linear Static	TU-CON	0,
ELU-237			Linear Static	GRA-HEAT	1,125
ELU-237	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-238			Linear Static	PP	1,35
ELU-238			Linear Static	CM-TUBERIA	1,35
ELU-238			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-238	Linear Add	No	Linear Static	SCU	0,54
ELU-238			Linear Static	VTSSC	0,
ELU-238			Linear Static	VTSCSC	0,45
ELU-238			Linear Static	VV	0,
ELU-238			Linear Static	VLSSC	0,
ELU-238			Linear Static	VLCSC	0,
ELU-238			Linear Static	TU-DIL	0,
ELU-238			Linear Static	TU-CON	1,5
ELU-238			Linear Static	GRA-HEAT	1,125
ELU-238			Linear Static	GRA-COOL	0,
ELU-239			Linear Static	PP	1,35
ELU-239			Linear Static	CM-TUBERIA	1,35
ELU-239			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-239			Linear Static	SCU	0,54
ELU-239			Linear Static	VTSSC	0,
ELU-239	Linear Add	No	Linear Static	VTSCSC	0,45
ELU-239			Linear Static	VV	0,
ELU-239			Linear Static	VLSSC	0,
ELU-239			Linear Static	VLCSC	0,
ELU-239			Linear Static	TU-DIL	1,5
ELU-239			Linear Static	TU-CON	0,
ELU-239			Linear Static	GRA-HEAT	0,
ELU-239			Linear Static	GRA-COOL	1,125
ELU-240			Linear Static	PP	1,35
ELU-240			Linear Static	CM-TUBERIA	1,35
ELU-240			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-240			Linear Static	SCU	0,54
ELU-240			Linear Static	VTSSC	0,
ELU-240			Linear Static	VTSCSC	0,45
ELU-240			Linear Static	VV	0,
ELU-240	Linear Add	No	Linear Static	VLSSC	0,
ELU-240			Linear Static	VLCSC	0,
ELU-240			Linear Static	TU-DIL	0,
ELU-240			Linear Static	TU-CON	1,5
ELU-240			Linear Static	GRA-HEAT	0,
ELU-240			Linear Static	GRA-COOL	1,125
ELU-241			Linear Static	PP	1,35
ELU-241			Linear Static	CM-TUBERIA	1,35
ELU-241			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-241			Linear Static	SCU	0,54
ELU-241			Linear Static	VTSSC	0,
ELU-241			Linear Static	VTSCSC	0,45
ELU-241			Linear Static	VV	0,45
ELU-241			Linear Static	VLSSC	0,
ELU-241			Linear Static	VLCSC	0,
ELU-241	Linear Add	No	Linear Static	TU-DIL	0,525
ELU-241			Linear Static	TU-CON	0,
ELU-241			Linear Static	GRA-HEAT	1,5
ELU-241			Linear Static	GRA-COOL	0,
ELU-242			Linear Static	PP	1,35
ELU-242			Linear Static	CM-TUBERIA	1,35
ELU-242			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-242			Linear Static	SCU	0,54
ELU-242			Linear Static	VTSSC	0,
ELU-242			Linear Static	VTSCSC	0,45
ELU-242			Linear Static	VV	0,45
ELU-242			Linear Static	VLSSC	0,
ELU-242			Linear Static	VLCS	0,
ELU-242			Linear Static	TU-DIL	0,
ELU-242			Linear Static	TU-CON	0,525
ELU-242			Linear Static	GRA-HEAT	1,5
ELU-242			Linear Static	GRA-COOL	0,
ELU-243	Linear Add	No	Linear Static	PP	1,35
ELU-243			Linear Static	CM-TUBERIA	1,35
ELU-243			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-243			Linear Static	SCU	0,54
ELU-243			Linear Static	VTSSC	0,
ELU-243			Linear Static	VTSCSC	0,45
ELU-243			Linear Static	VV	0,45
ELU-243			Linear Static	VLSSC	0,
ELU-243			Linear Static	VLCS	0,
ELU-243			Linear Static	TU-DIL	0,525
ELU-243			Linear Static	TU-CON	0,
ELU-243			Linear Static	GRA-HEAT	0,
ELU-243			Linear Static	GRA-COOL	1,5
ELU-244	Linear Add	No	Linear Static	PP	1,35
ELU-244			Linear Static	CM-TUBERIA	1,35
ELU-244			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-244			Linear Static	SCU	0,54
ELU-244			Linear Static	VTSSC	0,
ELU-244			Linear Static	VTSCSC	0,45
ELU-244			Linear Static	VV	0,45
ELU-244			Linear Static	VLSSC	0,
ELU-244			Linear Static	VLCS	0,
ELU-244			Linear Static	TU-DIL	0,
ELU-244			Linear Static	TU-CON	0,525
ELU-244			Linear Static	GRA-HEAT	0,
ELU-244			Linear Static	GRA-COOL	1,5
ELU-245	Linear Add	No	Linear Static	PP	1,35
ELU-245			Linear Static	CM-TUBERIA	1,35
ELU-245			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-245			Linear Static	SCU	0,54
ELU-245			Linear Static	VTSSC	0,
ELU-245			Linear Static	VTSCSC	0,45
ELU-245			Linear Static	VV	0,45
ELU-245			Linear Static	VLSSC	0,
ELU-245			Linear Static	VLCS	0,
ELU-245			Linear Static	TU-DIL	1,5
ELU-245			Linear Static	TU-CON	0,
ELU-245			Linear Static	GRA-HEAT	1,125
ELU-245			Linear Static	GRA-COOL	0,
ELU-246	Linear Add	No	Linear Static	PP	1,35
ELU-246			Linear Static	CM-TUBERIA	1,35
ELU-246			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-246	Linear Add	No	Linear Static	SCU	0,54
ELU-246			Linear Static	VTSSC	0,
ELU-246			Linear Static	VTSCSC	0,45
ELU-246			Linear Static	VV	0,45
ELU-246			Linear Static	VLSSC	0,
ELU-246			Linear Static	VLCSC	0,
ELU-246			Linear Static	TU-DIL	0,
ELU-246			Linear Static	TU-CON	1,5
ELU-246			Linear Static	GRA-HEAT	1,125
ELU-246			Linear Static	GRA-COOL	0,
ELU-247			Linear Static	PP	1,35
ELU-247			Linear Static	CM-TUBERIA	1,35
ELU-247			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-247			Linear Static	SCU	0,54
ELU-247			Linear Static	VTSSC	0,
ELU-247	Linear Add	No	Linear Static	VTSCSC	0,45
ELU-247			Linear Static	VV	0,45
ELU-247			Linear Static	VLSSC	0,
ELU-247			Linear Static	VLCSC	0,
ELU-247			Linear Static	TU-DIL	1,5
ELU-247			Linear Static	TU-CON	0,
ELU-247			Linear Static	GRA-HEAT	0,
ELU-247			Linear Static	GRA-COOL	1,125
ELU-248			Linear Static	PP	1,35
ELU-248			Linear Static	CM-TUBERIA	1,35
ELU-248			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-248			Linear Static	SCU	0,54
ELU-248			Linear Static	VTSSC	0,
ELU-248			Linear Static	VTSCSC	0,45
ELU-248			Linear Static	VV	0,45
ELU-248	Linear Add	No	Linear Static	VLSSC	0,
ELU-248			Linear Static	VLCSC	0,
ELU-248			Linear Static	TU-DIL	0,
ELU-248			Linear Static	TU-CON	1,5
ELU-248			Linear Static	GRA-HEAT	0,
ELU-248			Linear Static	GRA-COOL	1,125
ELU-249			Linear Static	PP	1,35
ELU-249			Linear Static	CM-TUBERIA	1,35
ELU-249			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-249			Linear Static	SCU	0,
ELU-249			Linear Static	VTSSC	0,45
ELU-249			Linear Static	VTSCSC	0,
ELU-249			Linear Static	VV	0,
ELU-249			Linear Static	VLSSC	0,
ELU-249			Linear Static	VLCSC	0,
ELU-249	Linear Add	No	Linear Static	TU-DIL	0,525
ELU-249			Linear Static	TU-CON	0,
ELU-249			Linear Static	GRA-HEAT	1,5
ELU-249			Linear Static	GRA-COOL	0,
ELU-250			Linear Static	PP	1,35
ELU-250			Linear Static	CM-TUBERIA	1,35
ELU-250			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-250	Linear Add	No	Linear Static	SCU	0,
ELU-250			Linear Static	VTSSC	0,45
ELU-250			Linear Static	VTSCSC	0,
ELU-250			Linear Static	VV	0,
ELU-250			Linear Static	VLSSC	0,
ELU-250			Linear Static	VLCSC	0,
ELU-250			Linear Static	TU-DIL	0,
ELU-250			Linear Static	TU-CON	0,525
ELU-250			Linear Static	GRA-HEAT	1,5
ELU-250			Linear Static	GRA-COOL	0,
ELU-251			Linear Static	PP	1,35
ELU-251			Linear Static	CM-TUBERIA	1,35
ELU-251			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-251			Linear Static	SCU	0,
ELU-251			Linear Static	VTSSC	0,45
ELU-251	Linear Add	No	Linear Static	VTSCSC	0,
ELU-251			Linear Static	VV	0,
ELU-251			Linear Static	VLSSC	0,
ELU-251			Linear Static	VLCSC	0,
ELU-251			Linear Static	TU-DIL	0,525
ELU-251			Linear Static	TU-CON	0,
ELU-251			Linear Static	GRA-HEAT	0,
ELU-251			Linear Static	GRA-COOL	1,5
ELU-252			Linear Static	PP	1,35
ELU-252			Linear Static	CM-TUBERIA	1,35
ELU-252			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-252			Linear Static	SCU	0,
ELU-252			Linear Static	VTSSC	0,45
ELU-252			Linear Static	VTSCSC	0,
ELU-252			Linear Static	VV	0,
ELU-252	Linear Add	No	Linear Static	VLSSC	0,
ELU-252			Linear Static	VLCSC	0,
ELU-252			Linear Static	TU-DIL	0,
ELU-252			Linear Static	TU-CON	0,525
ELU-252			Linear Static	GRA-HEAT	0,
ELU-252			Linear Static	GRA-COOL	1,5
ELU-253			Linear Static	PP	1,35
ELU-253			Linear Static	CM-TUBERIA	1,35
ELU-253			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-253			Linear Static	SCU	0,
ELU-253			Linear Static	VTSSC	0,45
ELU-253			Linear Static	VTSCSC	0,
ELU-253			Linear Static	VV	0,
ELU-253			Linear Static	VLSSC	0,
ELU-253			Linear Static	VLCSC	0,
ELU-253	Linear Add	No	Linear Static	TU-DIL	1,5
ELU-253			Linear Static	TU-CON	0,
ELU-253			Linear Static	GRA-HEAT	1,125
ELU-253			Linear Static	GRA-COOL	0,
ELU-254			Linear Static	PP	1,35
ELU-254			Linear Static	CM-TUBERIA	1,35
ELU-254			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-254	Linear Add	No	Linear Static	SCU	0,
ELU-254			Linear Static	VTSSC	0,45
ELU-254			Linear Static	VTSCC	0,
ELU-254			Linear Static	VV	0,
ELU-254			Linear Static	VLSSC	0,
ELU-254			Linear Static	VLCSC	0,
ELU-254			Linear Static	TU-DIL	0,
ELU-254			Linear Static	TU-CON	1,5
ELU-254			Linear Static	GRA-HEAT	1,125
ELU-254			Linear Static	GRA-COOL	0,
ELU-255	Linear Add	No	Linear Static	PP	1,35
ELU-255			Linear Static	CM-TUBERIA	1,35
ELU-255			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-255			Linear Static	SCU	0,
ELU-255			Linear Static	VTSSC	0,45
ELU-255			Linear Static	VTSCC	0,
ELU-255			Linear Static	VV	0,
ELU-255			Linear Static	VLSSC	0,
ELU-255			Linear Static	VLCSC	0,
ELU-255			Linear Static	TU-DIL	1,5
ELU-255	Linear Add	No	Linear Static	TU-CON	0,
ELU-255			Linear Static	GRA-HEAT	0,
ELU-255			Linear Static	GRA-COOL	1,125
ELU-256			Linear Static	PP	1,35
ELU-256			Linear Static	CM-TUBERIA	1,35
ELU-256			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-256			Linear Static	SCU	0,
ELU-256			Linear Static	VTSSC	0,45
ELU-256			Linear Static	VTSCC	0,
ELU-256			Linear Static	VV	0,
ELU-256	Linear Add	No	Linear Static	VLSSC	0,
ELU-256			Linear Static	VLCSC	0,
ELU-256			Linear Static	TU-DIL	0,
ELU-256			Linear Static	TU-CON	1,5
ELU-256			Linear Static	GRA-HEAT	0,
ELU-256			Linear Static	GRA-COOL	1,125
ELU-257			Linear Static	PP	1,35
ELU-257			Linear Static	CM-TUBERIA	1,35
ELU-257			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-257			Linear Static	SCU	0,
ELU-257	Linear Add	No	Linear Static	VTSSC	0,45
ELU-257			Linear Static	VTSCC	0,
ELU-257			Linear Static	VV	0,45
ELU-257			Linear Static	VLSSC	0,
ELU-257			Linear Static	VLCSC	0,
ELU-257			Linear Static	TU-DIL	0,525
ELU-257			Linear Static	TU-CON	0,
ELU-257			Linear Static	GRA-HEAT	1,5
ELU-257			Linear Static	GRA-COOL	0,
ELU-258			Linear Static	PP	1,35
ELU-258	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-258			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-258	Linear Add	No	Linear Static	SCU	0,
ELU-258			Linear Static	VTSSC	0,45
ELU-258			Linear Static	VTSCSC	0,
ELU-258			Linear Static	VV	0,45
ELU-258			Linear Static	VLSSC	0,
ELU-258			Linear Static	VLCSC	0,
ELU-258			Linear Static	TU-DIL	0,
ELU-258			Linear Static	TU-CON	0,525
ELU-258			Linear Static	GRA-HEAT	1,5
ELU-258			Linear Static	GRA-COOL	0,
ELU-259			Linear Static	PP	1,35
ELU-259			Linear Static	CM-TUBERIA	1,35
ELU-259			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-259			Linear Static	SCU	0,
ELU-259			Linear Static	VTSSC	0,45
ELU-259	Linear Add	No	Linear Static	VTSCSC	0,
ELU-259			Linear Static	VV	0,45
ELU-259			Linear Static	VLSSC	0,
ELU-259			Linear Static	VLCSC	0,
ELU-259			Linear Static	TU-DIL	0,525
ELU-259			Linear Static	TU-CON	0,
ELU-259			Linear Static	GRA-HEAT	0,
ELU-259			Linear Static	GRA-COOL	1,5
ELU-260			Linear Static	PP	1,35
ELU-260			Linear Static	CM-TUBERIA	1,35
ELU-260			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-260			Linear Static	SCU	0,
ELU-260			Linear Static	VTSSC	0,45
ELU-260			Linear Static	VTSCSC	0,
ELU-260			Linear Static	VV	0,45
ELU-260	Linear Add	No	Linear Static	VLSSC	0,
ELU-260			Linear Static	VLCSC	0,
ELU-260			Linear Static	TU-DIL	0,
ELU-260			Linear Static	TU-CON	0,525
ELU-260			Linear Static	GRA-HEAT	0,
ELU-260			Linear Static	GRA-COOL	1,5
ELU-261			Linear Static	PP	1,35
ELU-261			Linear Static	CM-TUBERIA	1,35
ELU-261			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-261			Linear Static	SCU	0,
ELU-261			Linear Static	VTSSC	0,45
ELU-261			Linear Static	VTSCSC	0,
ELU-261			Linear Static	VV	0,45
ELU-261			Linear Static	VLSSC	0,
ELU-261			Linear Static	VLCSC	0,
ELU-261	Linear Add	No	Linear Static	TU-DIL	1,5
ELU-261			Linear Static	TU-CON	0,
ELU-261			Linear Static	GRA-HEAT	1,125
ELU-261			Linear Static	GRA-COOL	0,
ELU-262			Linear Static	PP	1,35
ELU-262			Linear Static	CM-TUBERIA	1,35
ELU-262			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-262	Linear Add	No	Linear Static	SCU	0,
ELU-262			Linear Static	VTSSC	0,45
ELU-262			Linear Static	VTSCC	0,
ELU-262			Linear Static	VV	0,45
ELU-262			Linear Static	VLSSC	0,
ELU-262			Linear Static	VLCSC	0,
ELU-262			Linear Static	TU-DIL	0,
ELU-262			Linear Static	TU-CON	1,5
ELU-262			Linear Static	GRA-HEAT	1,125
ELU-262			Linear Static	GRA-COOL	0,
ELU-263			Linear Static	PP	1,35
ELU-263			Linear Static	CM-TUBERIA	1,35
ELU-263			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-263			Linear Static	SCU	0,
ELU-263			Linear Static	VTSSC	0,45
ELU-263	Linear Add	No	Linear Static	VTSCC	0,
ELU-263			Linear Static	VV	0,45
ELU-263			Linear Static	VLSSC	0,
ELU-263			Linear Static	VLCSC	0,
ELU-263			Linear Static	TU-DIL	1,5
ELU-263			Linear Static	TU-CON	0,
ELU-263			Linear Static	GRA-HEAT	0,
ELU-263			Linear Static	GRA-COOL	1,125
ELU-264			Linear Static	PP	1,35
ELU-264			Linear Static	CM-TUBERIA	1,35
ELU-264			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-264			Linear Static	SCU	0,
ELU-264			Linear Static	VTSSC	0,45
ELU-264			Linear Static	VTSCC	0,
ELU-264			Linear Static	VV	0,45
ELU-264	Linear Add	No	Linear Static	VLSSC	0,
ELU-264			Linear Static	VLCSC	0,
ELU-264			Linear Static	TU-DIL	0,
ELU-264			Linear Static	TU-CON	1,5
ELU-264			Linear Static	GRA-HEAT	0,
ELU-264			Linear Static	GRA-COOL	1,125
ELU-265			Linear Static	PP	1,35
ELU-265			Linear Static	CM-TUBERIA	1,35
ELU-265			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-265			Linear Static	SCU	0,
ELU-265			Linear Static	VTSSC	0,
ELU-265			Linear Static	VTSCC	0,
ELU-265			Linear Static	VV	0,
ELU-265			Linear Static	VLSSC	0,45
ELU-265			Linear Static	VLCSC	0,
ELU-265	Linear Add	No	Linear Static	TU-DIL	0,525
ELU-265			Linear Static	TU-CON	0,
ELU-265			Linear Static	GRA-HEAT	1,5
ELU-265			Linear Static	GRA-COOL	0,
ELU-266			Linear Static	PP	1,35
ELU-266			Linear Static	CM-TUBERIA	1,35
ELU-266			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-266	Linear Add	No	Linear Static	SCU	0,
ELU-266			Linear Static	VTSSC	0,
ELU-266			Linear Static	VTSCSC	0,
ELU-266			Linear Static	VV	0,
ELU-266			Linear Static	VLSSC	0,45
ELU-266			Linear Static	VLCSC	0,
ELU-266			Linear Static	TU-DIL	0,
ELU-266			Linear Static	TU-CON	0,525
ELU-266			Linear Static	GRA-HEAT	1,5
ELU-266			Linear Static	GRA-COOL	0,
ELU-267			Linear Static	PP	1,35
ELU-267			Linear Static	CM-TUBERIA	1,35
ELU-267			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-267			Linear Static	SCU	0,
ELU-267			Linear Static	VTSSC	0,
ELU-267			Linear Static	VTSCSC	0,
ELU-267			Linear Static	VV	0,
ELU-267			Linear Static	VLSSC	0,45
ELU-267			Linear Static	VLCSC	0,
ELU-267			Linear Static	TU-DIL	0,525
ELU-267			Linear Static	TU-CON	0,
ELU-267			Linear Static	GRA-HEAT	0,
ELU-267			Linear Static	GRA-COOL	1,5
ELU-268	Linear Add	No	Linear Static	PP	1,35
ELU-268			Linear Static	CM-TUBERIA	1,35
ELU-268			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-268			Linear Static	SCU	0,
ELU-268			Linear Static	VTSSC	0,
ELU-268			Linear Static	VTSCSC	0,
ELU-268			Linear Static	VV	0,
ELU-268			Linear Static	VLSSC	0,45
ELU-268			Linear Static	VLCSC	0,
ELU-268			Linear Static	TU-DIL	0,
ELU-268			Linear Static	TU-CON	0,525
ELU-268			Linear Static	GRA-HEAT	0,
ELU-268			Linear Static	GRA-COOL	1,5
ELU-269			Linear Static	PP	1,35
ELU-269			Linear Static	CM-TUBERIA	1,35
ELU-269			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-269			Linear Static	SCU	0,
ELU-269			Linear Static	VTSSC	0,
ELU-269			Linear Static	VTSCSC	0,
ELU-269			Linear Static	VV	0,
ELU-269			Linear Static	VLSSC	0,45
ELU-269			Linear Static	VLCSC	0,
ELU-269			Linear Static	TU-DIL	1,5
ELU-269			Linear Static	TU-CON	0,
ELU-269			Linear Static	GRA-HEAT	1,125
ELU-269			Linear Static	GRA-COOL	0,
ELU-270	Linear Add	No	Linear Static	PP	1,35
ELU-270			Linear Static	CM-TUBERIA	1,35
ELU-270			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-270	Linear Add	No	Linear Static	SCU	0,
ELU-270			Linear Static	VTSSC	0,
ELU-270			Linear Static	VTSCC	0,
ELU-270			Linear Static	VV	0,
ELU-270			Linear Static	VLSSC	0,45
ELU-270			Linear Static	VLCSC	0,
ELU-270			Linear Static	TU-DIL	0,
ELU-270			Linear Static	TU-CON	1,5
ELU-270			Linear Static	GRA-HEAT	1,125
ELU-270			Linear Static	GRA-COOL	0,
ELU-271	Linear Add	No	Linear Static	PP	1,35
ELU-271			Linear Static	CM-TUBERIA	1,35
ELU-271			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-271			Linear Static	SCU	0,
ELU-271			Linear Static	VTSSC	0,
ELU-271			Linear Static	VTSCC	0,
ELU-271			Linear Static	VV	0,
ELU-271			Linear Static	VLSSC	0,45
ELU-271			Linear Static	VLCSC	0,
ELU-271			Linear Static	TU-DIL	1,5
ELU-271	Linear Add	No	Linear Static	TU-CON	0,
ELU-271			Linear Static	GRA-HEAT	0,
ELU-271			Linear Static	GRA-COOL	1,125
ELU-272			Linear Static	PP	1,35
ELU-272			Linear Static	CM-TUBERIA	1,35
ELU-272			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-272			Linear Static	SCU	0,
ELU-272			Linear Static	VTSSC	0,
ELU-272			Linear Static	VTSCC	0,
ELU-272			Linear Static	VV	0,
ELU-272	Linear Add	No	Linear Static	VLSSC	0,45
ELU-272			Linear Static	VLCSC	0,
ELU-272			Linear Static	TU-DIL	0,
ELU-272			Linear Static	TU-CON	1,5
ELU-272			Linear Static	GRA-HEAT	0,
ELU-272			Linear Static	GRA-COOL	1,125
ELU-273			Linear Static	PP	1,35
ELU-273			Linear Static	CM-TUBERIA	1,35
ELU-273			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-273			Linear Static	SCU	0,54
ELU-273	Linear Add	No	Linear Static	VTSSC	0,
ELU-273			Linear Static	VTSCC	0,
ELU-273			Linear Static	VV	0,
ELU-273			Linear Static	VLSSC	0,
ELU-273			Linear Static	VLCSC	0,45
ELU-273			Linear Static	TU-DIL	0,525
ELU-273			Linear Static	TU-CON	0,
ELU-273			Linear Static	GRA-HEAT	1,5
ELU-273			Linear Static	GRA-COOL	0,
ELU-274			Linear Static	PP	1,35
ELU-274	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-274			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-274	Linear Add	No	Linear Static	SCU	0,54
ELU-274			Linear Static	VTSSC	0,
ELU-274			Linear Static	VTSCSC	0,
ELU-274			Linear Static	VV	0,
ELU-274			Linear Static	VLSSC	0,
ELU-274			Linear Static	VLCS	0,45
ELU-274			Linear Static	TU-DIL	0,
ELU-274			Linear Static	TU-CON	0,525
ELU-274			Linear Static	GRA-HEAT	1,5
ELU-274			Linear Static	GRA-COOL	0,
ELU-275			Linear Static	PP	1,35
ELU-275			Linear Static	CM-TUBERIA	1,35
ELU-275	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-275			Linear Static	SCU	0,54
ELU-275			Linear Static	VTSSC	0,
ELU-275			Linear Static	VTSCSC	0,
ELU-275			Linear Static	VV	0,
ELU-275			Linear Static	VLSSC	0,
ELU-275			Linear Static	VLCS	0,45
ELU-275			Linear Static	TU-DIL	0,525
ELU-275			Linear Static	TU-CON	0,
ELU-275			Linear Static	GRA-HEAT	0,
ELU-275			Linear Static	GRA-COOL	1,5
ELU-276			Linear Static	PP	1,35
ELU-276	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-276			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-276			Linear Static	SCU	0,54
ELU-276			Linear Static	VTSSC	0,
ELU-276			Linear Static	VTSCSC	0,
ELU-276			Linear Static	VV	0,
ELU-276			Linear Static	VLSSC	0,
ELU-276			Linear Static	VLCS	0,45
ELU-276			Linear Static	TU-DIL	0,
ELU-276			Linear Static	TU-CON	0,525
ELU-276			Linear Static	GRA-HEAT	0,
ELU-276			Linear Static	GRA-COOL	1,5
ELU-277	Linear Add	No	Linear Static	PP	1,35
ELU-277			Linear Static	CM-TUBERIA	1,35
ELU-277			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-277			Linear Static	SCU	0,54
ELU-277			Linear Static	VTSSC	0,
ELU-277			Linear Static	VTSCSC	0,
ELU-277			Linear Static	VV	0,
ELU-277			Linear Static	VLSSC	0,
ELU-277			Linear Static	VLCS	0,45
ELU-277			Linear Static	TU-DIL	1,5
ELU-277			Linear Static	TU-CON	0,
ELU-277			Linear Static	GRA-HEAT	1,125
ELU-277	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-278			Linear Static	PP	1,35
ELU-278			Linear Static	CM-TUBERIA	1,35
ELU-278			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-278	Linear Add	No	Linear Static	SCU	0,54
ELU-278			Linear Static	VTSSC	0,
ELU-278			Linear Static	VTSCSC	0,
ELU-278			Linear Static	VV	0,
ELU-278			Linear Static	VLSSC	0,
ELU-278			Linear Static	VLCSC	0,45
ELU-278			Linear Static	TU-DIL	0,
ELU-278			Linear Static	TU-CON	1,5
ELU-278			Linear Static	GRA-HEAT	1,125
ELU-278			Linear Static	GRA-COOL	0,
ELU-279			Linear Static	PP	1,35
ELU-279			Linear Static	CM-TUBERIA	1,35
ELU-279			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-279			Linear Static	SCU	0,54
ELU-279			Linear Static	VTSSC	0,
ELU-279	Linear Add	No	Linear Static	VTSCSC	0,
ELU-279			Linear Static	VV	0,
ELU-279			Linear Static	VLSSC	0,
ELU-279			Linear Static	VLCSC	0,45
ELU-279			Linear Static	TU-DIL	1,5
ELU-279			Linear Static	TU-CON	0,
ELU-279			Linear Static	GRA-HEAT	0,
ELU-279			Linear Static	GRA-COOL	1,125
ELU-280			Linear Static	PP	1,35
ELU-280			Linear Static	CM-TUBERIA	1,35
ELU-280			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-280			Linear Static	SCU	0,54
ELU-280			Linear Static	VTSSC	0,
ELU-280			Linear Static	VTSCSC	0,
ELU-280			Linear Static	VV	0,
ELU-280	Linear Add	No	Linear Static	VLSSC	0,
ELU-280			Linear Static	VLCSC	0,45
ELU-280			Linear Static	TU-DIL	0,
ELU-280			Linear Static	TU-CON	1,5
ELU-280			Linear Static	GRA-HEAT	0,
ELU-280			Linear Static	GRA-COOL	1,125
ELU-281			Linear Static	PP	1,35
ELU-281			Linear Static	CM-TUBERIA	1,35
ELU-281			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-281			Linear Static	SCU	0,54
ELU-281			Linear Static	VTSSC	0,
ELU-281			Linear Static	VTSCSC	0,
ELU-281			Linear Static	VV	0,
ELU-281			Linear Static	VLSSC	0,
ELU-281			Linear Static	VLCSC	0,
ELU-281	Linear Add	No	Linear Static	TU-DIL	0,525
ELU-281			Linear Static	TU-CON	0,
ELU-281			Linear Static	GRA-HEAT	1,5
ELU-281			Linear Static	GRA-COOL	0,
ELU-282			Linear Static	PP	1,35
ELU-282			Linear Static	CM-TUBERIA	1,35
ELU-282			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-282	Linear Add	No	Linear Static	SCU	0,54
ELU-282			Linear Static	VTSSC	0,
ELU-282			Linear Static	VTSCSC	0,
ELU-282			Linear Static	VV	0,
ELU-282			Linear Static	VLSSC	0,
ELU-282			Linear Static	VLCS	0,
ELU-282			Linear Static	TU-DIL	0,
ELU-282			Linear Static	TU-CON	0,525
ELU-282			Linear Static	GRA-HEAT	1,5
ELU-282			Linear Static	GRA-COOL	0,
ELU-283			Linear Static	PP	1,35
ELU-283			Linear Static	CM-TUBERIA	1,35
ELU-283	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-283			Linear Static	SCU	0,54
ELU-283			Linear Static	VTSSC	0,
ELU-283			Linear Static	VTSCSC	0,
ELU-283			Linear Static	VV	0,
ELU-283			Linear Static	VLSSC	0,
ELU-283			Linear Static	VLCS	0,
ELU-283			Linear Static	TU-DIL	0,525
ELU-283			Linear Static	TU-CON	0,
ELU-283			Linear Static	GRA-HEAT	0,
ELU-283			Linear Static	GRA-COOL	1,5
ELU-284			Linear Static	PP	1,35
ELU-284	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-284			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-284			Linear Static	SCU	0,54
ELU-284			Linear Static	VTSSC	0,
ELU-284			Linear Static	VTSCSC	0,
ELU-284			Linear Static	VV	0,
ELU-284			Linear Static	VLSSC	0,
ELU-284			Linear Static	VLCS	0,
ELU-284			Linear Static	TU-DIL	0,
ELU-284			Linear Static	TU-CON	0,525
ELU-284			Linear Static	GRA-HEAT	0,
ELU-284			Linear Static	GRA-COOL	1,5
ELU-285	Linear Add	No	Linear Static	PP	1,35
ELU-285			Linear Static	CM-TUBERIA	1,35
ELU-285			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-285			Linear Static	SCU	0,54
ELU-285			Linear Static	VTSSC	0,
ELU-285			Linear Static	VTSCSC	0,
ELU-285			Linear Static	VV	0,
ELU-285			Linear Static	VLSSC	0,
ELU-285			Linear Static	VLCS	0,
ELU-285			Linear Static	TU-DIL	1,5
ELU-285			Linear Static	TU-CON	0,
ELU-285			Linear Static	GRA-HEAT	1,125
ELU-285	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-286			Linear Static	PP	1,35
ELU-286			Linear Static	CM-TUBERIA	1,35
ELU-286			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-286	Linear Add	No	Linear Static	SCU	0,54
ELU-286			Linear Static	VTSSC	0,
ELU-286			Linear Static	VTSCSC	0,
ELU-286			Linear Static	VV	0,
ELU-286			Linear Static	VLSSC	0,
ELU-286			Linear Static	VLCSC	0,
ELU-286			Linear Static	TU-DIL	0,
ELU-286			Linear Static	TU-CON	1,5
ELU-286			Linear Static	GRA-HEAT	1,125
ELU-286			Linear Static	GRA-COOL	0,
ELU-287			Linear Static	PP	1,35
ELU-287			Linear Static	CM-TUBERIA	1,35
ELU-287			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-287			Linear Static	SCU	0,54
ELU-287			Linear Static	VTSSC	0,
ELU-287	Linear Add	No	Linear Static	VTSCSC	0,
ELU-287			Linear Static	VV	0,
ELU-287			Linear Static	VLSSC	0,
ELU-287			Linear Static	VLCSC	0,
ELU-287			Linear Static	TU-DIL	1,5
ELU-287			Linear Static	TU-CON	0,
ELU-287			Linear Static	GRA-HEAT	0,
ELU-287			Linear Static	GRA-COOL	1,125
ELU-288			Linear Static	PP	1,35
ELU-288			Linear Static	CM-TUBERIA	1,35
ELU-288			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-288			Linear Static	SCU	0,54
ELU-288			Linear Static	VTSSC	0,
ELU-288			Linear Static	VTSCSC	0,
ELU-288			Linear Static	VV	0,
ELU-288	Linear Add	No	Linear Static	VLSSC	0,
ELU-288			Linear Static	VLCSC	0,
ELU-288			Linear Static	TU-DIL	0,
ELU-288			Linear Static	TU-CON	1,5
ELU-288			Linear Static	GRA-HEAT	0,
ELU-288			Linear Static	GRA-COOL	1,125
ELU-289			Linear Static	PP	1,35
ELU-289			Linear Static	CM-TUBERIA	1,35
ELU-289			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-289			Linear Static	SCU	0,54
ELU-289			Linear Static	VTSSC	0,
ELU-289			Linear Static	VTSCSC	0,45
ELU-289			Linear Static	VV	0,
ELU-289			Linear Static	VLSSC	0,
ELU-289			Linear Static	VLCSC	0,
ELU-289	Linear Add	No	Linear Static	TU-DIL	0,525
ELU-289			Linear Static	TU-CON	0,
ELU-289			Linear Static	GRA-HEAT	1,5
ELU-289			Linear Static	GRA-COOL	0,
ELU-290			Linear Static	PP	1,35
ELU-290			Linear Static	CM-TUBERIA	1,35
ELU-290			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-290			Linear Static	SCU	0,54
ELU-290			Linear Static	VTSSC	0,
ELU-290			Linear Static	VTSCSC	0,45
ELU-290			Linear Static	VV	0,
ELU-290			Linear Static	VLSSC	0,
ELU-290			Linear Static	VLCS	0,
ELU-290			Linear Static	TU-DIL	0,
ELU-290			Linear Static	TU-CON	0,525
ELU-290			Linear Static	GRA-HEAT	1,5
ELU-290			Linear Static	GRA-COOL	0,
ELU-291	Linear Add	No	Linear Static	PP	1,35
ELU-291			Linear Static	CM-TUBERIA	1,35
ELU-291			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-291			Linear Static	SCU	0,54
ELU-291			Linear Static	VTSSC	0,
ELU-291			Linear Static	VTSCSC	0,45
ELU-291			Linear Static	VV	0,
ELU-291			Linear Static	VLSSC	0,
ELU-291			Linear Static	VLCS	0,
ELU-291			Linear Static	TU-DIL	0,525
ELU-291			Linear Static	TU-CON	0,
ELU-291			Linear Static	GRA-HEAT	0,
ELU-291			Linear Static	GRA-COOL	1,5
ELU-292	Linear Add	No	Linear Static	PP	1,35
ELU-292			Linear Static	CM-TUBERIA	1,35
ELU-292			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-292			Linear Static	SCU	0,54
ELU-292			Linear Static	VTSSC	0,
ELU-292			Linear Static	VTSCSC	0,45
ELU-292			Linear Static	VV	0,
ELU-292			Linear Static	VLSSC	0,
ELU-292			Linear Static	VLCS	0,
ELU-292			Linear Static	TU-DIL	0,
ELU-292			Linear Static	TU-CON	0,525
ELU-292			Linear Static	GRA-HEAT	0,
ELU-292			Linear Static	GRA-COOL	1,5
ELU-293	Linear Add	No	Linear Static	PP	1,35
ELU-293			Linear Static	CM-TUBERIA	1,35
ELU-293			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-293			Linear Static	SCU	0,54
ELU-293			Linear Static	VTSSC	0,
ELU-293			Linear Static	VTSCSC	0,45
ELU-293			Linear Static	VV	0,
ELU-293			Linear Static	VLSSC	0,
ELU-293			Linear Static	VLCS	0,
ELU-293			Linear Static	TU-DIL	1,5
ELU-293			Linear Static	TU-CON	0,
ELU-293			Linear Static	GRA-HEAT	1,125
ELU-293			Linear Static	GRA-COOL	0,
ELU-294	Linear Add	No	Linear Static	PP	1,35
ELU-294			Linear Static	CM-TUBERIA	1,35
ELU-294			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-294	Linear Add	No	Linear Static	SCU	0,54
ELU-294			Linear Static	VTSSC	0,
ELU-294			Linear Static	VTSCSC	0,45
ELU-294			Linear Static	VV	0,
ELU-294			Linear Static	VLSSC	0,
ELU-294			Linear Static	VLCSC	0,
ELU-294			Linear Static	TU-DIL	0,
ELU-294			Linear Static	TU-CON	1,5
ELU-294			Linear Static	GRA-HEAT	1,125
ELU-294			Linear Static	GRA-COOL	0,
ELU-295	Linear Add	No	Linear Static	PP	1,35
ELU-295			Linear Static	CM-TUBERIA	1,35
ELU-295			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-295			Linear Static	SCU	0,54
ELU-295			Linear Static	VTSSC	0,
ELU-295			Linear Static	VTSCSC	0,45
ELU-295			Linear Static	VV	0,
ELU-295			Linear Static	VLSSC	0,
ELU-295			Linear Static	VLCSC	0,
ELU-295			Linear Static	TU-DIL	1,5
ELU-295	Linear Add	No	Linear Static	TU-CON	0,
ELU-295			Linear Static	GRA-HEAT	0,
ELU-295			Linear Static	GRA-COOL	1,125
ELU-296			Linear Static	PP	1,35
ELU-296			Linear Static	CM-TUBERIA	1,35
ELU-296			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-296			Linear Static	SCU	0,54
ELU-296			Linear Static	VTSSC	0,
ELU-296			Linear Static	VTSCSC	0,45
ELU-296			Linear Static	VV	0,
ELU-296	Linear Add	No	Linear Static	VLSSC	0,
ELU-296			Linear Static	VLCSC	0,
ELU-296			Linear Static	TU-DIL	0,
ELU-296			Linear Static	TU-CON	1,5
ELU-296			Linear Static	GRA-HEAT	0,
ELU-296			Linear Static	GRA-COOL	1,125
ELU-297			Linear Static	PP	1,35
ELU-297			Linear Static	CM-TUBERIA	1,35
ELU-297			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-297			Linear Static	SCU	0,54
ELU-297	Linear Add	No	Linear Static	VTSSC	0,
ELU-297			Linear Static	VTSCSC	0,45
ELU-297			Linear Static	VV	0,45
ELU-297			Linear Static	VLSSC	0,
ELU-297			Linear Static	VLCSC	0,
ELU-297			Linear Static	TU-DIL	0,525
ELU-297			Linear Static	TU-CON	0,
ELU-297			Linear Static	GRA-HEAT	1,5
ELU-297			Linear Static	GRA-COOL	0,
ELU-298			Linear Static	PP	1,35
ELU-298	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-298			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-298	Linear Add	No	Linear Static	SCU	0,54
ELU-298			Linear Static	VTSSC	0,
ELU-298			Linear Static	VTSCSC	0,45
ELU-298			Linear Static	VV	0,45
ELU-298			Linear Static	VLSSC	0,
ELU-298			Linear Static	VLCSC	0,
ELU-298			Linear Static	TU-DIL	0,
ELU-298			Linear Static	TU-CON	0,525
ELU-298			Linear Static	GRA-HEAT	1,5
ELU-298			Linear Static	GRA-COOL	0,
ELU-299			Linear Static	PP	1,35
ELU-299			Linear Static	CM-TUBERIA	1,35
ELU-299			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-299			Linear Static	SCU	0,54
ELU-299			Linear Static	VTSSC	0,
ELU-299	Linear Add	No	Linear Static	VTSCSC	0,45
ELU-299			Linear Static	VV	0,45
ELU-299			Linear Static	VLSSC	0,
ELU-299			Linear Static	VLCSC	0,
ELU-299			Linear Static	TU-DIL	0,525
ELU-299			Linear Static	TU-CON	0,
ELU-299			Linear Static	GRA-HEAT	0,
ELU-299			Linear Static	GRA-COOL	1,5
ELU-300			Linear Static	PP	1,35
ELU-300			Linear Static	CM-TUBERIA	1,35
ELU-300			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-300			Linear Static	SCU	0,54
ELU-300			Linear Static	VTSSC	0,
ELU-300			Linear Static	VTSCSC	0,45
ELU-300			Linear Static	VV	0,45
ELU-300	Linear Add	No	Linear Static	VLSSC	0,
ELU-300			Linear Static	VLCSC	0,
ELU-300			Linear Static	TU-DIL	0,
ELU-300			Linear Static	TU-CON	0,525
ELU-300			Linear Static	GRA-HEAT	0,
ELU-300			Linear Static	GRA-COOL	1,5
ELU-301			Linear Static	PP	1,35
ELU-301			Linear Static	CM-TUBERIA	1,35
ELU-301			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-301			Linear Static	SCU	0,54
ELU-301			Linear Static	VTSSC	0,
ELU-301			Linear Static	VTSCSC	0,45
ELU-301			Linear Static	VV	0,45
ELU-301			Linear Static	VLSSC	0,
ELU-301			Linear Static	VLCSC	0,
ELU-301	Linear Add	No	Linear Static	TU-DIL	1,5
ELU-301			Linear Static	TU-CON	0,
ELU-301			Linear Static	GRA-HEAT	1,125
ELU-301			Linear Static	GRA-COOL	0,
ELU-302			Linear Static	PP	1,35
ELU-302			Linear Static	CM-TUBERIA	1,35
ELU-302			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-302	Linear Add	No	Linear Static	SCU	0,54
ELU-302			Linear Static	VTSSC	0,
ELU-302			Linear Static	VTSCSC	0,45
ELU-302			Linear Static	VV	0,45
ELU-302			Linear Static	VLSSC	0,
ELU-302			Linear Static	VLCSC	0,
ELU-302			Linear Static	TU-DIL	0,
ELU-302			Linear Static	TU-CON	1,5
ELU-302			Linear Static	GRA-HEAT	1,125
ELU-302			Linear Static	GRA-COOL	0,
ELU-303			Linear Static	PP	1,35
ELU-303			Linear Static	CM-TUBERIA	1,35
ELU-303			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-303			Linear Static	SCU	0,54
ELU-303			Linear Static	VTSSC	0,
ELU-303	Linear Add	No	Linear Static	VTSCSC	0,45
ELU-303			Linear Static	VV	0,45
ELU-303			Linear Static	VLSSC	0,
ELU-303			Linear Static	VLCSC	0,
ELU-303			Linear Static	TU-DIL	1,5
ELU-303			Linear Static	TU-CON	0,
ELU-303			Linear Static	GRA-HEAT	0,
ELU-303			Linear Static	GRA-COOL	1,125
ELU-304			Linear Static	PP	1,35
ELU-304			Linear Static	CM-TUBERIA	1,35
ELU-304			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-304			Linear Static	SCU	0,54
ELU-304			Linear Static	VTSSC	0,
ELU-304			Linear Static	VTSCSC	0,45
ELU-304			Linear Static	VV	0,45
ELU-304	Linear Add	No	Linear Static	VLSSC	0,
ELU-304			Linear Static	VLCSC	0,
ELU-304			Linear Static	TU-DIL	0,
ELU-304			Linear Static	TU-CON	1,5
ELU-304			Linear Static	GRA-HEAT	0,
ELU-304			Linear Static	GRA-COOL	1,125
ELU-305			Linear Static	PP	1,35
ELU-305			Linear Static	CM-TUBERIA	1,35
ELU-305			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-305			Linear Static	SCU	0,
ELU-305			Linear Static	VTSSC	0,45
ELU-305			Linear Static	VTSCSC	0,
ELU-305			Linear Static	VV	0,
ELU-305			Linear Static	VLSSC	0,
ELU-305			Linear Static	VLCSC	0,
ELU-305	Linear Add	No	Linear Static	TU-DIL	0,525
ELU-305			Linear Static	TU-CON	0,
ELU-305			Linear Static	GRA-HEAT	1,5
ELU-305			Linear Static	GRA-COOL	0,
ELU-306			Linear Static	PP	1,35
ELU-306			Linear Static	CM-TUBERIA	1,35
ELU-306			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-306	Linear Add	No	Linear Static	SCU	0,
ELU-306			Linear Static	VTSSC	0,45
ELU-306			Linear Static	VTSCSC	0,
ELU-306			Linear Static	VV	0,
ELU-306			Linear Static	VLSSC	0,
ELU-306			Linear Static	VLCS	0,
ELU-306			Linear Static	TU-DIL	0,
ELU-306			Linear Static	TU-CON	0,525
ELU-306			Linear Static	GRA-HEAT	1,5
ELU-306			Linear Static	GRA-COOL	0,
ELU-307			Linear Static	PP	1,35
ELU-307			Linear Static	CM-TUBERIA	1,35
ELU-307			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-307			Linear Static	SCU	0,
ELU-307			Linear Static	VTSSC	0,45
ELU-307	Linear Add	No	Linear Static	VTSCSC	0,
ELU-307			Linear Static	VV	0,
ELU-307			Linear Static	VLSSC	0,
ELU-307			Linear Static	VLCS	0,
ELU-307			Linear Static	TU-DIL	0,525
ELU-307			Linear Static	TU-CON	0,
ELU-307			Linear Static	GRA-HEAT	0,
ELU-307			Linear Static	GRA-COOL	1,5
ELU-308			Linear Static	PP	1,35
ELU-308			Linear Static	CM-TUBERIA	1,35
ELU-308			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-308			Linear Static	SCU	0,
ELU-308			Linear Static	VTSSC	0,45
ELU-308			Linear Static	VTSCSC	0,
ELU-308			Linear Static	VV	0,
ELU-308	Linear Add	No	Linear Static	VLSSC	0,
ELU-308			Linear Static	VLCS	0,
ELU-308			Linear Static	TU-DIL	0,
ELU-308			Linear Static	TU-CON	0,525
ELU-308			Linear Static	GRA-HEAT	0,
ELU-308			Linear Static	GRA-COOL	1,5
ELU-309			Linear Static	PP	1,35
ELU-309			Linear Static	CM-TUBERIA	1,35
ELU-309			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-309			Linear Static	SCU	0,
ELU-309			Linear Static	VTSSC	0,45
ELU-309			Linear Static	VTSCSC	0,
ELU-309			Linear Static	VV	0,
ELU-309			Linear Static	VLSSC	0,
ELU-309			Linear Static	VLCS	0,
ELU-309	Linear Add	No	Linear Static	TU-DIL	1,5
ELU-309			Linear Static	TU-CON	0,
ELU-309			Linear Static	GRA-HEAT	1,125
ELU-309			Linear Static	GRA-COOL	0,
ELU-310			Linear Static	PP	1,35
ELU-310			Linear Static	CM-TUBERIA	1,35
ELU-310			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-310	Linear Add	No	Linear Static	SCU	0,
ELU-310			Linear Static	VTSSC	0,45
ELU-310			Linear Static	VTSCSC	0,
ELU-310			Linear Static	VV	0,
ELU-310			Linear Static	VLSSC	0,
ELU-310			Linear Static	VLCSC	0,
ELU-310			Linear Static	TU-DIL	0,
ELU-310			Linear Static	TU-CON	1,5
ELU-310			Linear Static	GRA-HEAT	1,125
ELU-310			Linear Static	GRA-COOL	0,
ELU-311	Linear Add	No	Linear Static	PP	1,35
ELU-311			Linear Static	CM-TUBERIA	1,35
ELU-311			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-311			Linear Static	SCU	0,
ELU-311			Linear Static	VTSSC	0,45
ELU-311			Linear Static	VTSCSC	0,
ELU-311			Linear Static	VV	0,
ELU-311			Linear Static	VLSSC	0,
ELU-311			Linear Static	VLCSC	0,
ELU-311			Linear Static	TU-DIL	1,5
ELU-311	Linear Add	No	Linear Static	TU-CON	0,
ELU-311			Linear Static	GRA-HEAT	0,
ELU-311			Linear Static	GRA-COOL	1,125
ELU-312			Linear Static	PP	1,35
ELU-312			Linear Static	CM-TUBERIA	1,35
ELU-312			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-312			Linear Static	SCU	0,
ELU-312			Linear Static	VTSSC	0,45
ELU-312			Linear Static	VTSCSC	0,
ELU-312			Linear Static	VV	0,
ELU-312	Linear Add	No	Linear Static	VLSSC	0,
ELU-312			Linear Static	VLCSC	0,
ELU-312			Linear Static	TU-DIL	0,
ELU-312			Linear Static	TU-CON	1,5
ELU-312			Linear Static	GRA-HEAT	0,
ELU-312			Linear Static	GRA-COOL	1,125
ELU-313			Linear Static	PP	1,35
ELU-313			Linear Static	CM-TUBERIA	1,35
ELU-313			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-313			Linear Static	SCU	0,
ELU-313	Linear Add	No	Linear Static	VTSSC	0,45
ELU-313			Linear Static	VTSCSC	0,
ELU-313			Linear Static	VV	0,45
ELU-313			Linear Static	VLSSC	0,
ELU-313			Linear Static	VLCSC	0,
ELU-313			Linear Static	TU-DIL	0,525
ELU-313			Linear Static	TU-CON	0,
ELU-313			Linear Static	GRA-HEAT	1,5
ELU-313			Linear Static	GRA-COOL	0,
ELU-314			Linear Static	PP	1,35
ELU-314	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-314			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-314	Linear Add	No	Linear Static	SCU	0,
ELU-314			Linear Static	VTSSC	0,45
ELU-314			Linear Static	VTSCSC	0,
ELU-314			Linear Static	VV	0,45
ELU-314			Linear Static	VLSSC	0,
ELU-314			Linear Static	VLCSC	0,
ELU-314			Linear Static	TU-DIL	0,
ELU-314			Linear Static	TU-CON	0,525
ELU-314			Linear Static	GRA-HEAT	1,5
ELU-314			Linear Static	GRA-COOL	0,
ELU-315			Linear Static	PP	1,35
ELU-315			Linear Static	CM-TUBERIA	1,35
ELU-315	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-315			Linear Static	SCU	0,
ELU-315			Linear Static	VTSSC	0,45
ELU-315			Linear Static	VTSCSC	0,
ELU-315			Linear Static	VV	0,45
ELU-315			Linear Static	VLSSC	0,
ELU-315			Linear Static	VLCSC	0,
ELU-315			Linear Static	TU-DIL	0,525
ELU-315			Linear Static	TU-CON	0,
ELU-315			Linear Static	GRA-HEAT	0,
ELU-315			Linear Static	GRA-COOL	1,5
ELU-316			Linear Static	PP	1,35
ELU-316	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-316			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-316			Linear Static	SCU	0,
ELU-316			Linear Static	VTSSC	0,45
ELU-316			Linear Static	VTSCSC	0,
ELU-316			Linear Static	VV	0,45
ELU-316			Linear Static	VLSSC	0,
ELU-316			Linear Static	VLCSC	0,
ELU-316			Linear Static	TU-DIL	0,
ELU-316			Linear Static	TU-CON	0,525
ELU-316			Linear Static	GRA-HEAT	0,
ELU-316			Linear Static	GRA-COOL	1,5
ELU-317	Linear Add	No	Linear Static	PP	1,35
ELU-317			Linear Static	CM-TUBERIA	1,35
ELU-317			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-317			Linear Static	SCU	0,
ELU-317			Linear Static	VTSSC	0,45
ELU-317			Linear Static	VTSCSC	0,
ELU-317			Linear Static	VV	0,45
ELU-317			Linear Static	VLSSC	0,
ELU-317			Linear Static	VLCSC	0,
ELU-317			Linear Static	TU-DIL	1,5
ELU-317			Linear Static	TU-CON	0,
ELU-317			Linear Static	GRA-HEAT	1,125
ELU-317	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-318			Linear Static	PP	1,35
ELU-318			Linear Static	CM-TUBERIA	1,35
ELU-318			Linear Static	CM- TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-318	Linear Add	No	Linear Static	SCU	0,
ELU-318			Linear Static	VTSSC	0,45
ELU-318			Linear Static	VTSCC	0,
ELU-318			Linear Static	VV	0,45
ELU-318			Linear Static	VLSSC	0,
ELU-318			Linear Static	VLCSC	0,
ELU-318			Linear Static	TU-DIL	0,
ELU-318			Linear Static	TU-CON	1,5
ELU-318			Linear Static	GRA-HEAT	1,125
ELU-318			Linear Static	GRA-COOL	0,
ELU-319	Linear Add	No	Linear Static	PP	1,35
ELU-319			Linear Static	CM-TUBERIA	1,35
ELU-319			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-319			Linear Static	SCU	0,
ELU-319			Linear Static	VTSSC	0,45
ELU-319			Linear Static	VTSCC	0,
ELU-319			Linear Static	VV	0,45
ELU-319			Linear Static	VLSSC	0,
ELU-319			Linear Static	VLCSC	0,
ELU-319			Linear Static	TU-DIL	1,5
ELU-319	Linear Add	No	Linear Static	TU-CON	0,
ELU-319			Linear Static	GRA-HEAT	0,
ELU-319			Linear Static	GRA-COOL	1,125
ELU-320			Linear Static	PP	1,35
ELU-320			Linear Static	CM-TUBERIA	1,35
ELU-320			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-320			Linear Static	SCU	0,
ELU-320			Linear Static	VTSSC	0,45
ELU-320			Linear Static	VTSCC	0,
ELU-320			Linear Static	VV	0,45
ELU-320	Linear Add	No	Linear Static	VLSSC	0,
ELU-320			Linear Static	VLCSC	0,
ELU-320			Linear Static	TU-DIL	0,
ELU-320			Linear Static	TU-CON	1,5
ELU-320			Linear Static	GRA-HEAT	0,
ELU-320			Linear Static	GRA-COOL	1,125
ELU-321			Linear Static	PP	1,35
ELU-321			Linear Static	CM-TUBERIA	1,35
ELU-321			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-321			Linear Static	SCU	0,
ELU-321	Linear Add	No	Linear Static	VTSSC	0,
ELU-321			Linear Static	VTSCC	0,
ELU-321			Linear Static	VV	0,
ELU-321			Linear Static	VLSSC	0,45
ELU-321			Linear Static	VLCSC	0,
ELU-321			Linear Static	TU-DIL	0,525
ELU-321			Linear Static	TU-CON	0,
ELU-321			Linear Static	GRA-HEAT	1,5
ELU-321			Linear Static	GRA-COOL	0,
ELU-322			Linear Static	PP	1,35
ELU-322	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-322			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-322	Linear Add	No	Linear Static	SCU	0,
ELU-322			Linear Static	VTSSC	0,
ELU-322			Linear Static	VTSCSC	0,
ELU-322			Linear Static	VV	0,
ELU-322			Linear Static	VLSSC	0,45
ELU-322			Linear Static	VLCS	0,
ELU-322			Linear Static	TU-DIL	0,
ELU-322			Linear Static	TU-CON	0,525
ELU-322			Linear Static	GRA-HEAT	1,5
ELU-322			Linear Static	GRA-COOL	0,
ELU-323			Linear Static	PP	1,35
ELU-323			Linear Static	CM-TUBERIA	1,35
ELU-323			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-323	Linear Add	No	Linear Static	SCU	0,
ELU-323			Linear Static	VTSSC	0,
ELU-323			Linear Static	VTSCSC	0,
ELU-323			Linear Static	VV	0,
ELU-323			Linear Static	VLSSC	0,45
ELU-323			Linear Static	VLCS	0,
ELU-323			Linear Static	TU-DIL	0,525
ELU-323			Linear Static	TU-CON	0,
ELU-323			Linear Static	GRA-HEAT	0,
ELU-323			Linear Static	GRA-COOL	1,5
ELU-324			Linear Static	PP	1,35
ELU-324			Linear Static	CM-TUBERIA	1,35
ELU-324			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-324	Linear Add	No	Linear Static	SCU	0,
ELU-324			Linear Static	VTSSC	0,
ELU-324			Linear Static	VTSCSC	0,
ELU-324			Linear Static	VV	0,
ELU-324			Linear Static	VLSSC	0,45
ELU-324			Linear Static	VLCS	0,
ELU-324			Linear Static	TU-DIL	0,
ELU-324			Linear Static	TU-CON	0,525
ELU-324			Linear Static	GRA-HEAT	0,
ELU-324			Linear Static	GRA-COOL	1,5
ELU-325			Linear Static	PP	1,35
ELU-325			Linear Static	CM-TUBERIA	1,35
ELU-325			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-325	Linear Add	No	Linear Static	SCU	0,
ELU-325			Linear Static	VTSSC	0,
ELU-325			Linear Static	VTSCSC	0,
ELU-325			Linear Static	VV	0,
ELU-325			Linear Static	VLSSC	0,45
ELU-325			Linear Static	VLCS	0,
ELU-325			Linear Static	TU-DIL	1,5
ELU-325			Linear Static	TU-CON	0,
ELU-325			Linear Static	GRA-HEAT	1,125
ELU-325			Linear Static	GRA-COOL	0,
ELU-326			Linear Static	PP	1,35
ELU-326			Linear Static	CM-TUBERIA	1,35
ELU-326			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-326	Linear Add	No	Linear Static	SCU	0,
ELU-326			Linear Static	VTSSC	0,
ELU-326			Linear Static	VTSCC	0,
ELU-326			Linear Static	VV	0,
ELU-326			Linear Static	VLSSC	0,45
ELU-326			Linear Static	VLCSC	0,
ELU-326			Linear Static	TU-DIL	0,
ELU-326			Linear Static	TU-CON	1,5
ELU-326			Linear Static	GRA-HEAT	1,125
ELU-326			Linear Static	GRA-COOL	0,
ELU-327			Linear Static	PP	1,35
ELU-327			Linear Static	CM-TUBERIA	1,35
ELU-327			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-327			Linear Static	SCU	0,
ELU-327			Linear Static	VTSSC	0,
ELU-327	Linear Add	No	Linear Static	VTSCC	0,
ELU-327			Linear Static	VV	0,
ELU-327			Linear Static	VLSSC	0,45
ELU-327			Linear Static	VLCSC	0,
ELU-327			Linear Static	TU-DIL	1,5
ELU-327			Linear Static	TU-CON	0,
ELU-327			Linear Static	GRA-HEAT	0,
ELU-327			Linear Static	GRA-COOL	1,125
ELU-328			Linear Static	PP	1,35
ELU-328			Linear Static	CM-TUBERIA	1,35
ELU-328			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-328			Linear Static	SCU	0,
ELU-328			Linear Static	VTSSC	0,
ELU-328			Linear Static	VTSCC	0,
ELU-328			Linear Static	VV	0,
ELU-328	Linear Add	No	Linear Static	VLSSC	0,45
ELU-328			Linear Static	VLCSC	0,
ELU-328			Linear Static	TU-DIL	0,
ELU-328			Linear Static	TU-CON	1,5
ELU-328			Linear Static	GRA-HEAT	0,
ELU-328			Linear Static	GRA-COOL	1,125
ELU-329			Linear Static	PP	1,35
ELU-329			Linear Static	CM-TUBERIA	1,35
ELU-329			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-329			Linear Static	SCU	0,54
ELU-329			Linear Static	VTSSC	0,
ELU-329			Linear Static	VTSCC	0,
ELU-329			Linear Static	VV	0,
ELU-329			Linear Static	VLSSC	0,
ELU-329			Linear Static	VLCSC	0,45
ELU-329	Linear Add	No	Linear Static	TU-DIL	0,525
ELU-329			Linear Static	TU-CON	0,
ELU-329			Linear Static	GRA-HEAT	1,5
ELU-329			Linear Static	GRA-COOL	0,
ELU-330			Linear Static	PP	1,35
ELU-330			Linear Static	CM-TUBERIA	1,35
ELU-330			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-330	Linear Add	No	Linear Static	SCU	0,54
ELU-330			Linear Static	VTSSC	0,
ELU-330			Linear Static	VTSCSC	0,
ELU-330			Linear Static	VV	0,
ELU-330			Linear Static	VLSSC	0,
ELU-330			Linear Static	VLCS	0,45
ELU-330			Linear Static	TU-DIL	0,
ELU-330			Linear Static	TU-CON	0,525
ELU-330			Linear Static	GRA-HEAT	1,5
ELU-330			Linear Static	GRA-COOL	0,
ELU-331			Linear Static	PP	1,35
ELU-331			Linear Static	CM-TUBERIA	1,35
ELU-331	Linear Add	No	Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-331			Linear Static	SCU	0,54
ELU-331			Linear Static	VTSSC	0,
ELU-331			Linear Static	VTSCSC	0,
ELU-331			Linear Static	VV	0,
ELU-331			Linear Static	VLSSC	0,
ELU-331			Linear Static	VLCS	0,45
ELU-331			Linear Static	TU-DIL	0,525
ELU-331			Linear Static	TU-CON	0,
ELU-331			Linear Static	GRA-HEAT	0,
ELU-331			Linear Static	GRA-COOL	1,5
ELU-332			Linear Static	PP	1,35
ELU-332	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-332			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-332			Linear Static	SCU	0,54
ELU-332			Linear Static	VTSSC	0,
ELU-332			Linear Static	VTSCSC	0,
ELU-332			Linear Static	VV	0,
ELU-332			Linear Static	VLSSC	0,
ELU-332			Linear Static	VLCS	0,45
ELU-332			Linear Static	TU-DIL	0,
ELU-332			Linear Static	TU-CON	0,525
ELU-332			Linear Static	GRA-HEAT	0,
ELU-332			Linear Static	GRA-COOL	1,5
ELU-333	Linear Add	No	Linear Static	PP	1,35
ELU-333			Linear Static	CM-TUBERIA	1,35
ELU-333			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-333			Linear Static	SCU	0,54
ELU-333			Linear Static	VTSSC	0,
ELU-333			Linear Static	VTSCSC	0,
ELU-333			Linear Static	VV	0,
ELU-333			Linear Static	VLSSC	0,
ELU-333			Linear Static	VLCS	0,45
ELU-333			Linear Static	TU-DIL	1,5
ELU-333			Linear Static	TU-CON	0,
ELU-333			Linear Static	GRA-HEAT	1,125
ELU-333	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-334			Linear Static	PP	1,35
ELU-334			Linear Static	CM-TUBERIA	1,35
ELU-334			Linear Static	CM-TRAMEX+REJILLA	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-334	Linear Add	No	Linear Static	SCU	0,54
ELU-334			Linear Static	VTSSC	0,
ELU-334			Linear Static	VTSCSC	0,
ELU-334			Linear Static	VV	0,
ELU-334			Linear Static	VLSSC	0,
ELU-334			Linear Static	VLCSC	0,45
ELU-334			Linear Static	TU-DIL	0,
ELU-334			Linear Static	TU-CON	1,5
ELU-334			Linear Static	GRA-HEAT	1,125
ELU-334			Linear Static	GRA-COOL	0,
ELU-335	Linear Add	No	Linear Static	PP	1,35
ELU-335			Linear Static	CM-TUBERIA	1,35
ELU-335			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-335			Linear Static	SCU	0,54
ELU-335			Linear Static	VTSSC	0,
ELU-335			Linear Static	VTSCSC	0,
ELU-335			Linear Static	VV	0,
ELU-335			Linear Static	VLSSC	0,
ELU-335			Linear Static	VLCSC	0,45
ELU-335			Linear Static	TU-DIL	1,5
ELU-335	Linear Add	No	Linear Static	TU-CON	0,
ELU-335			Linear Static	GRA-HEAT	0,
ELU-335			Linear Static	GRA-COOL	1,125
ELU-336			Linear Static	PP	1,35
ELU-336			Linear Static	CM-TUBERIA	1,35
ELU-336			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-336			Linear Static	SCU	0,54
ELU-336			Linear Static	VTSSC	0,
ELU-336			Linear Static	VTSCSC	0,
ELU-336			Linear Static	VV	0,
ELU-336	Envelope	No	Linear Static	VLSSC	0,
ELU-336			Linear Static	VLCSC	0,45
ELU-336			Linear Static	TU-DIL	0,
ELU-336			Linear Static	TU-CON	1,5
ELU-336			Linear Static	GRA-HEAT	0,
ELU-336			Linear Static	GRA-COOL	1,125
ENV-ELS-CHK			Response Combo	ELS-CHK-1	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-2	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-3	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-4	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-5	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-6	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-7	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-8	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-9	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-10	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-11	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-12	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-13	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-14	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-15	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-16	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-17	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-CHK			Response Combo	ELS-CHK-18	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-19	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-20	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-21	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-22	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-23	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-24	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-25	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-26	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-27	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-28	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-29	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-30	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-31	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-32	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-33	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-34	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-35	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-36	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-37	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-38	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-39	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-40	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-41	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-42	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-43	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-44	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-45	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-46	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-47	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-48	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-49	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-50	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-51	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-52	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-53	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-54	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-55	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-56	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-57	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-58	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-59	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-60	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-61	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-62	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-63	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-64	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-65	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-66	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-67	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-68	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-69	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-70	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-71	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-72	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-CHK			Response Combo	ELS-CHK-73	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-74	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-75	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-76	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-77	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-78	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-79	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-80	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-81	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-82	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-83	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-84	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-85	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-86	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-87	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-88	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-89	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-90	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-91	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-92	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-93	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-94	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-95	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-96	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-97	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-98	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-99	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-100	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-101	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-102	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-103	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-104	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-105	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-106	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-107	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-108	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-109	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-110	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-111	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-112	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-113	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-114	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-115	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-116	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-117	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-118	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-119	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-120	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-121	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-122	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-123	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-124	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-125	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-126	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-127	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-CHK	Envelope	No	Response Combo	ELS-CHK-128	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-129	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-130	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-131	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-132	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-133	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-134	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-135	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-136	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-137	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-138	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-139	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-140	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-141	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-142	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-143	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-144	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-145	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-146	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-147	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-148	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-149	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-150	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-151	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-152	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-153	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-154	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-155	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-156	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-157	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-158	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-159	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-160	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-161	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-162	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-163	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-164	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-165	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-166	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-167	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-168	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-1	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-2	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-3	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-4	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-5	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-6	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-7	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-8	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-9	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-10	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-11	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-12	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-13	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-14	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-FREQ			Response Combo	ELS-FREQ-15	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-16	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-17	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-18	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-19	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-20	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-21	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-22	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-23	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-24	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-25	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-26	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-27	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-28	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-29	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-30	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-31	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-32	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-33	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-34	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-35	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-36	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-37	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-38	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-39	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-40	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-41	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-42	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-43	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-44	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-45	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-46	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-47	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-48	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-49	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-50	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-51	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-52	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-53	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-54	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-55	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-56	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-57	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-58	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-59	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-60	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-61	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-62	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-63	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-64	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-65	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-66	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-67	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-68	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-69	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-FREQ	Envelope	No	Response Combo	ELS-FREQ-70	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-71	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-72	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-1	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-2	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-3	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-4	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-5	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-6	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-7	1,
ENV-ELS-CUASI	Envelope	No	Response Combo	ELS-CUASI-8	1,
ENV-ELU			Response Combo	ELU-1	1,
ENV-ELU			Response Combo	ELU-2	1,
ENV-ELU			Response Combo	ELU-3	1,
ENV-ELU			Response Combo	ELU-4	1,
ENV-ELU			Response Combo	ELU-5	1,
ENV-ELU			Response Combo	ELU-6	1,
ENV-ELU			Response Combo	ELU-7	1,
ENV-ELU			Response Combo	ELU-8	1,
ENV-ELU			Response Combo	ELU-9	1,
ENV-ELU			Response Combo	ELU-10	1,
ENV-ELU			Response Combo	ELU-11	1,
ENV-ELU			Response Combo	ELU-12	1,
ENV-ELU			Response Combo	ELU-13	1,
ENV-ELU			Response Combo	ELU-14	1,
ENV-ELU			Response Combo	ELU-15	1,
ENV-ELU			Response Combo	ELU-16	1,
ENV-ELU			Response Combo	ELU-17	1,
ENV-ELU			Response Combo	ELU-18	1,
ENV-ELU			Response Combo	ELU-19	1,
ENV-ELU			Response Combo	ELU-20	1,
ENV-ELU			Response Combo	ELU-21	1,
ENV-ELU			Response Combo	ELU-22	1,
ENV-ELU			Response Combo	ELU-23	1,
ENV-ELU			Response Combo	ELU-24	1,
ENV-ELU			Response Combo	ELU-25	1,
ENV-ELU			Response Combo	ELU-26	1,
ENV-ELU			Response Combo	ELU-27	1,
ENV-ELU			Response Combo	ELU-28	1,
ENV-ELU			Response Combo	ELU-29	1,
ENV-ELU			Response Combo	ELU-30	1,
ENV-ELU			Response Combo	ELU-31	1,
ENV-ELU			Response Combo	ELU-32	1,
ENV-ELU			Response Combo	ELU-33	1,
ENV-ELU			Response Combo	ELU-34	1,
ENV-ELU			Response Combo	ELU-35	1,
ENV-ELU			Response Combo	ELU-36	1,
ENV-ELU			Response Combo	ELU-37	1,
ENV-ELU			Response Combo	ELU-38	1,
ENV-ELU			Response Combo	ELU-39	1,
ENV-ELU			Response Combo	ELU-40	1,
ENV-ELU			Response Combo	ELU-41	1,
ENV-ELU			Response Combo	ELU-42	1,
ENV-ELU			Response Combo	ELU-43	1,
ENV-ELU			Response Combo	ELU-44	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-45	1,
ENV-ELU			Response Combo	ELU-46	1,
ENV-ELU			Response Combo	ELU-47	1,
ENV-ELU			Response Combo	ELU-48	1,
ENV-ELU			Response Combo	ELU-49	1,
ENV-ELU			Response Combo	ELU-50	1,
ENV-ELU			Response Combo	ELU-51	1,
ENV-ELU			Response Combo	ELU-52	1,
ENV-ELU			Response Combo	ELU-53	1,
ENV-ELU			Response Combo	ELU-54	1,
ENV-ELU			Response Combo	ELU-55	1,
ENV-ELU			Response Combo	ELU-56	1,
ENV-ELU			Response Combo	ELU-57	1,
ENV-ELU			Response Combo	ELU-58	1,
ENV-ELU			Response Combo	ELU-59	1,
ENV-ELU			Response Combo	ELU-60	1,
ENV-ELU			Response Combo	ELU-61	1,
ENV-ELU			Response Combo	ELU-62	1,
ENV-ELU			Response Combo	ELU-63	1,
ENV-ELU			Response Combo	ELU-64	1,
ENV-ELU			Response Combo	ELU-65	1,
ENV-ELU			Response Combo	ELU-66	1,
ENV-ELU			Response Combo	ELU-67	1,
ENV-ELU			Response Combo	ELU-68	1,
ENV-ELU			Response Combo	ELU-69	1,
ENV-ELU			Response Combo	ELU-70	1,
ENV-ELU			Response Combo	ELU-71	1,
ENV-ELU			Response Combo	ELU-72	1,
ENV-ELU			Response Combo	ELU-73	1,
ENV-ELU			Response Combo	ELU-74	1,
ENV-ELU			Response Combo	ELU-75	1,
ENV-ELU			Response Combo	ELU-76	1,
ENV-ELU			Response Combo	ELU-77	1,
ENV-ELU			Response Combo	ELU-78	1,
ENV-ELU			Response Combo	ELU-79	1,
ENV-ELU			Response Combo	ELU-80	1,
ENV-ELU			Response Combo	ELU-81	1,
ENV-ELU			Response Combo	ELU-82	1,
ENV-ELU			Response Combo	ELU-83	1,
ENV-ELU			Response Combo	ELU-84	1,
ENV-ELU			Response Combo	ELU-85	1,
ENV-ELU			Response Combo	ELU-86	1,
ENV-ELU			Response Combo	ELU-87	1,
ENV-ELU			Response Combo	ELU-88	1,
ENV-ELU			Response Combo	ELU-89	1,
ENV-ELU			Response Combo	ELU-90	1,
ENV-ELU			Response Combo	ELU-91	1,
ENV-ELU			Response Combo	ELU-92	1,
ENV-ELU			Response Combo	ELU-93	1,
ENV-ELU			Response Combo	ELU-94	1,
ENV-ELU			Response Combo	ELU-95	1,
ENV-ELU			Response Combo	ELU-96	1,
ENV-ELU			Response Combo	ELU-97	1,
ENV-ELU			Response Combo	ELU-98	1,
ENV-ELU			Response Combo	ELU-99	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-100	1,
ENV-ELU			Response Combo	ELU-101	1,
ENV-ELU			Response Combo	ELU-102	1,
ENV-ELU			Response Combo	ELU-103	1,
ENV-ELU			Response Combo	ELU-104	1,
ENV-ELU			Response Combo	ELU-105	1,
ENV-ELU			Response Combo	ELU-106	1,
ENV-ELU			Response Combo	ELU-107	1,
ENV-ELU			Response Combo	ELU-108	1,
ENV-ELU			Response Combo	ELU-109	1,
ENV-ELU			Response Combo	ELU-110	1,
ENV-ELU			Response Combo	ELU-111	1,
ENV-ELU			Response Combo	ELU-112	1,
ENV-ELU			Response Combo	ELU-113	1,
ENV-ELU			Response Combo	ELU-114	1,
ENV-ELU			Response Combo	ELU-115	1,
ENV-ELU			Response Combo	ELU-116	1,
ENV-ELU			Response Combo	ELU-117	1,
ENV-ELU			Response Combo	ELU-118	1,
ENV-ELU			Response Combo	ELU-119	1,
ENV-ELU			Response Combo	ELU-120	1,
ENV-ELU			Response Combo	ELU-121	1,
ENV-ELU			Response Combo	ELU-122	1,
ENV-ELU			Response Combo	ELU-123	1,
ENV-ELU			Response Combo	ELU-124	1,
ENV-ELU			Response Combo	ELU-125	1,
ENV-ELU			Response Combo	ELU-126	1,
ENV-ELU			Response Combo	ELU-127	1,
ENV-ELU			Response Combo	ELU-128	1,
ENV-ELU			Response Combo	ELU-129	1,
ENV-ELU			Response Combo	ELU-130	1,
ENV-ELU			Response Combo	ELU-131	1,
ENV-ELU			Response Combo	ELU-132	1,
ENV-ELU			Response Combo	ELU-133	1,
ENV-ELU			Response Combo	ELU-134	1,
ENV-ELU			Response Combo	ELU-135	1,
ENV-ELU			Response Combo	ELU-136	1,
ENV-ELU			Response Combo	ELU-137	1,
ENV-ELU			Response Combo	ELU-138	1,
ENV-ELU			Response Combo	ELU-139	1,
ENV-ELU			Response Combo	ELU-140	1,
ENV-ELU			Response Combo	ELU-141	1,
ENV-ELU			Response Combo	ELU-142	1,
ENV-ELU			Response Combo	ELU-143	1,
ENV-ELU			Response Combo	ELU-144	1,
ENV-ELU			Response Combo	ELU-145	1,
ENV-ELU			Response Combo	ELU-146	1,
ENV-ELU			Response Combo	ELU-147	1,
ENV-ELU			Response Combo	ELU-148	1,
ENV-ELU			Response Combo	ELU-149	1,
ENV-ELU			Response Combo	ELU-150	1,
ENV-ELU			Response Combo	ELU-151	1,
ENV-ELU			Response Combo	ELU-152	1,
ENV-ELU			Response Combo	ELU-153	1,
ENV-ELU			Response Combo	ELU-154	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-155	1,
ENV-ELU			Response Combo	ELU-156	1,
ENV-ELU			Response Combo	ELU-157	1,
ENV-ELU			Response Combo	ELU-158	1,
ENV-ELU			Response Combo	ELU-159	1,
ENV-ELU			Response Combo	ELU-160	1,
ENV-ELU			Response Combo	ELU-161	1,
ENV-ELU			Response Combo	ELU-162	1,
ENV-ELU			Response Combo	ELU-163	1,
ENV-ELU			Response Combo	ELU-164	1,
ENV-ELU			Response Combo	ELU-165	1,
ENV-ELU			Response Combo	ELU-166	1,
ENV-ELU			Response Combo	ELU-167	1,
ENV-ELU			Response Combo	ELU-168	1,
ENV-ELU			Response Combo	ELU-169	1,
ENV-ELU			Response Combo	ELU-170	1,
ENV-ELU			Response Combo	ELU-171	1,
ENV-ELU			Response Combo	ELU-172	1,
ENV-ELU			Response Combo	ELU-173	1,
ENV-ELU			Response Combo	ELU-174	1,
ENV-ELU			Response Combo	ELU-175	1,
ENV-ELU			Response Combo	ELU-176	1,
ENV-ELU			Response Combo	ELU-177	1,
ENV-ELU			Response Combo	ELU-178	1,
ENV-ELU			Response Combo	ELU-179	1,
ENV-ELU			Response Combo	ELU-180	1,
ENV-ELU			Response Combo	ELU-181	1,
ENV-ELU			Response Combo	ELU-182	1,
ENV-ELU			Response Combo	ELU-183	1,
ENV-ELU			Response Combo	ELU-184	1,
ENV-ELU			Response Combo	ELU-185	1,
ENV-ELU			Response Combo	ELU-186	1,
ENV-ELU			Response Combo	ELU-187	1,
ENV-ELU			Response Combo	ELU-188	1,
ENV-ELU			Response Combo	ELU-189	1,
ENV-ELU			Response Combo	ELU-190	1,
ENV-ELU			Response Combo	ELU-191	1,
ENV-ELU			Response Combo	ELU-192	1,
ENV-ELU			Response Combo	ELU-193	1,
ENV-ELU			Response Combo	ELU-194	1,
ENV-ELU			Response Combo	ELU-195	1,
ENV-ELU			Response Combo	ELU-196	1,
ENV-ELU			Response Combo	ELU-197	1,
ENV-ELU			Response Combo	ELU-198	1,
ENV-ELU			Response Combo	ELU-199	1,
ENV-ELU			Response Combo	ELU-200	1,
ENV-ELU			Response Combo	ELU-201	1,
ENV-ELU			Response Combo	ELU-202	1,
ENV-ELU			Response Combo	ELU-203	1,
ENV-ELU			Response Combo	ELU-204	1,
ENV-ELU			Response Combo	ELU-205	1,
ENV-ELU			Response Combo	ELU-206	1,
ENV-ELU			Response Combo	ELU-207	1,
ENV-ELU			Response Combo	ELU-208	1,
ENV-ELU			Response Combo	ELU-209	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-210	1,
ENV-ELU			Response Combo	ELU-211	1,
ENV-ELU			Response Combo	ELU-212	1,
ENV-ELU			Response Combo	ELU-213	1,
ENV-ELU			Response Combo	ELU-214	1,
ENV-ELU			Response Combo	ELU-215	1,
ENV-ELU			Response Combo	ELU-216	1,
ENV-ELU			Response Combo	ELU-217	1,
ENV-ELU			Response Combo	ELU-218	1,
ENV-ELU			Response Combo	ELU-219	1,
ENV-ELU			Response Combo	ELU-220	1,
ENV-ELU			Response Combo	ELU-221	1,
ENV-ELU			Response Combo	ELU-222	1,
ENV-ELU			Response Combo	ELU-223	1,
ENV-ELU			Response Combo	ELU-224	1,
ENV-ELU			Response Combo	ELU-225	1,
ENV-ELU			Response Combo	ELU-226	1,
ENV-ELU			Response Combo	ELU-227	1,
ENV-ELU			Response Combo	ELU-228	1,
ENV-ELU			Response Combo	ELU-229	1,
ENV-ELU			Response Combo	ELU-230	1,
ENV-ELU			Response Combo	ELU-231	1,
ENV-ELU			Response Combo	ELU-232	1,
ENV-ELU			Response Combo	ELU-233	1,
ENV-ELU			Response Combo	ELU-234	1,
ENV-ELU			Response Combo	ELU-235	1,
ENV-ELU			Response Combo	ELU-236	1,
ENV-ELU			Response Combo	ELU-237	1,
ENV-ELU			Response Combo	ELU-238	1,
ENV-ELU			Response Combo	ELU-239	1,
ENV-ELU			Response Combo	ELU-240	1,
ENV-ELU			Response Combo	ELU-241	1,
ENV-ELU			Response Combo	ELU-242	1,
ENV-ELU			Response Combo	ELU-243	1,
ENV-ELU			Response Combo	ELU-244	1,
ENV-ELU			Response Combo	ELU-245	1,
ENV-ELU			Response Combo	ELU-246	1,
ENV-ELU			Response Combo	ELU-247	1,
ENV-ELU			Response Combo	ELU-248	1,
ENV-ELU			Response Combo	ELU-249	1,
ENV-ELU			Response Combo	ELU-250	1,
ENV-ELU			Response Combo	ELU-251	1,
ENV-ELU			Response Combo	ELU-252	1,
ENV-ELU			Response Combo	ELU-253	1,
ENV-ELU			Response Combo	ELU-254	1,
ENV-ELU			Response Combo	ELU-255	1,
ENV-ELU			Response Combo	ELU-256	1,
ENV-ELU			Response Combo	ELU-257	1,
ENV-ELU			Response Combo	ELU-258	1,
ENV-ELU			Response Combo	ELU-259	1,
ENV-ELU			Response Combo	ELU-260	1,
ENV-ELU			Response Combo	ELU-261	1,
ENV-ELU			Response Combo	ELU-262	1,
ENV-ELU			Response Combo	ELU-263	1,
ENV-ELU			Response Combo	ELU-264	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-265	1,
ENV-ELU			Response Combo	ELU-266	1,
ENV-ELU			Response Combo	ELU-267	1,
ENV-ELU			Response Combo	ELU-268	1,
ENV-ELU			Response Combo	ELU-269	1,
ENV-ELU			Response Combo	ELU-270	1,
ENV-ELU			Response Combo	ELU-271	1,
ENV-ELU			Response Combo	ELU-272	1,
ENV-ELU			Response Combo	ELU-273	1,
ENV-ELU			Response Combo	ELU-274	1,
ENV-ELU			Response Combo	ELU-275	1,
ENV-ELU			Response Combo	ELU-276	1,
ENV-ELU			Response Combo	ELU-277	1,
ENV-ELU			Response Combo	ELU-278	1,
ENV-ELU			Response Combo	ELU-279	1,
ENV-ELU			Response Combo	ELU-280	1,
ENV-ELU			Response Combo	ELU-281	1,
ENV-ELU			Response Combo	ELU-282	1,
ENV-ELU			Response Combo	ELU-283	1,
ENV-ELU			Response Combo	ELU-284	1,
ENV-ELU			Response Combo	ELU-285	1,
ENV-ELU			Response Combo	ELU-286	1,
ENV-ELU			Response Combo	ELU-287	1,
ENV-ELU			Response Combo	ELU-288	1,
ENV-ELU			Response Combo	ELU-289	1,
ENV-ELU			Response Combo	ELU-290	1,
ENV-ELU			Response Combo	ELU-291	1,
ENV-ELU			Response Combo	ELU-292	1,
ENV-ELU			Response Combo	ELU-293	1,
ENV-ELU			Response Combo	ELU-294	1,
ENV-ELU			Response Combo	ELU-295	1,
ENV-ELU			Response Combo	ELU-296	1,
ENV-ELU			Response Combo	ELU-297	1,
ENV-ELU			Response Combo	ELU-298	1,
ENV-ELU			Response Combo	ELU-299	1,
ENV-ELU			Response Combo	ELU-300	1,
ENV-ELU			Response Combo	ELU-301	1,
ENV-ELU			Response Combo	ELU-302	1,
ENV-ELU			Response Combo	ELU-303	1,
ENV-ELU			Response Combo	ELU-304	1,
ENV-ELU			Response Combo	ELU-305	1,
ENV-ELU			Response Combo	ELU-306	1,
ENV-ELU			Response Combo	ELU-307	1,
ENV-ELU			Response Combo	ELU-308	1,
ENV-ELU			Response Combo	ELU-309	1,
ENV-ELU			Response Combo	ELU-310	1,
ENV-ELU			Response Combo	ELU-311	1,
ENV-ELU			Response Combo	ELU-312	1,
ENV-ELU			Response Combo	ELU-313	1,
ENV-ELU			Response Combo	ELU-314	1,
ENV-ELU			Response Combo	ELU-315	1,
ENV-ELU			Response Combo	ELU-316	1,
ENV-ELU			Response Combo	ELU-317	1,
ENV-ELU			Response Combo	ELU-318	1,
ENV-ELU			Response Combo	ELU-319	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-320	1,
ENV-ELU			Response Combo	ELU-321	1,
ENV-ELU			Response Combo	ELU-322	1,
ENV-ELU			Response Combo	ELU-323	1,
ENV-ELU			Response Combo	ELU-324	1,
ENV-ELU			Response Combo	ELU-325	1,
ENV-ELU			Response Combo	ELU-326	1,
ENV-ELU			Response Combo	ELU-327	1,
ENV-ELU			Response Combo	ELU-328	1,
ENV-ELU			Response Combo	ELU-329	1,
ENV-ELU			Response Combo	ELU-330	1,
ENV-ELU			Response Combo	ELU-331	1,
ENV-ELU			Response Combo	ELU-332	1,
ENV-ELU			Response Combo	ELU-333	1,
ENV-ELU			Response Combo	ELU-334	1,
ENV-ELU			Response Combo	ELU-335	1,
ENV-ELU			Response Combo	ELU-336	1,

Table: Frame Loads - Point, Part 1 of 2

Table: Frame Loads - Point, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDist
145	CM-TUBERIA	GLOBAL	Force	Gravity	RelDist	0,774
146	CM-TUBERIA	GLOBAL	Force	Gravity	RelDist	0,8
147	CM-TUBERIA	GLOBAL	Force	Gravity	RelDist	0,8
148	CM-TUBERIA	GLOBAL	Force	Gravity	RelDist	0,774

Table: Frame Loads - Point, Part 2 of 2

Table: Frame Loads - Point, Part 2 of 2

Frame	LoadPat	AbsDist m	Force KN
145	CM-TUBERIA	0,8127	3,95
146	CM-TUBERIA	0,84	3,95
147	CM-TUBERIA	0,84	3,95
148	CM-TUBERIA	0,8127	3,95

Table: Frame Loads - Distributed, Part 1 of 2

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
1	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
1	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
1	SCU	GLOBAL	Force	Gravity	RelDist	0,
1	SCU	GLOBAL	Force	X	RelDist	0,
2	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
2	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
2	SCU	GLOBAL	Force	Gravity	RelDist	0,
2	SCU	GLOBAL	Force	X	RelDist	0,
3	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
3	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
3	SCU	GLOBAL	Force	Gravity	RelDist	0,
3	SCU	GLOBAL	Force	X	RelDist	0,
4	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
4	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
4	SCU	GLOBAL	Force	Gravity	RelDist	0,
4	SCU	GLOBAL	Force	X	RelDist	0,
5	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
5	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
5	SCU	GLOBAL	Force	Gravity	RelDist	0,
5	SCU	GLOBAL	Force	X	RelDist	0,
6	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
6	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
6	SCU	GLOBAL	Force	Gravity	RelDist	0,
6	SCU	GLOBAL	Force	X	RelDist	0,
7	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
7	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
7	SCU	GLOBAL	Force	Gravity	RelDist	0,
7	SCU	GLOBAL	Force	X	RelDist	0,
8	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
8	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
8	SCU	GLOBAL	Force	Gravity	RelDist	0,
8	SCU	GLOBAL	Force	X	RelDist	0,
9	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
9	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
9	SCU	GLOBAL	Force	Gravity	RelDist	0,
9	SCU	GLOBAL	Force	X	RelDist	0,
10	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
10	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
10	SCU	GLOBAL	Force	Gravity	RelDist	0,
10	SCU	GLOBAL	Force	X	RelDist	0,
11	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
11	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					
11	SCU	GLOBAL	Force	Gravity	RelDist	0,
11	SCU	GLOBAL	Force	X	RelDist	0,
12	CM-	GLOBAL	Force	Gravity	RelDist	0,
	TRAMEX+REJILLA					

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
12	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
12	SCU	GLOBAL	Force	Gravity	RelDist	0,
12	SCU	GLOBAL	Force	X	RelDist	0,
13	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
13	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
13	SCU	GLOBAL	Force	Gravity	RelDist	0,
13	SCU	GLOBAL	Force	X	RelDist	0,
14	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
14	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
14	SCU	GLOBAL	Force	Gravity	RelDist	0,
14	SCU	GLOBAL	Force	X	RelDist	0,
15	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
16	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
17	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
18	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
19	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
20	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
21	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
22	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
23	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
24	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
25	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
26	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
27	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
28	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
29	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
30	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
31	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
32	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
33	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
34	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
35	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
36	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
37	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
38	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
39	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
40	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
41	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
42	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
43	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
44	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
45	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
46	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
47	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
48	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
49	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
50	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
51	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
52	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
53	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
54	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
55	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
56	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
57	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
58	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
58	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
58	SCU	GLOBAL	Force	Gravity	RelDist	0,
58	SCU	GLOBAL	Force	X	RelDist	0,
59	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
59	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
59	SCU	GLOBAL	Force	Gravity	RelDist	0,
59	SCU	GLOBAL	Force	X	RelDist	0,
60	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
60	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
60	SCU	GLOBAL	Force	Gravity	RelDist	0,
60	SCU	GLOBAL	Force	X	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
61	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
61	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
61	SCU	GLOBAL	Force	Gravity	RelDist	0,
61	SCU	GLOBAL	Force	X	RelDist	0,
62	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
62	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
62	SCU	GLOBAL	Force	Gravity	RelDist	0,
62	SCU	GLOBAL	Force	X	RelDist	0,
63	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
63	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
63	SCU	GLOBAL	Force	Gravity	RelDist	0,
63	SCU	GLOBAL	Force	X	RelDist	0,
64	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
64	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
64	SCU	GLOBAL	Force	Gravity	RelDist	0,
64	SCU	GLOBAL	Force	X	RelDist	0,
65	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
65	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
65	SCU	GLOBAL	Force	Gravity	RelDist	0,
65	SCU	GLOBAL	Force	X	RelDist	0,
66	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
66	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
66	SCU	GLOBAL	Force	Gravity	RelDist	0,
66	SCU	GLOBAL	Force	X	RelDist	0,
67	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
67	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
67	SCU	GLOBAL	Force	Gravity	RelDist	0,
67	SCU	GLOBAL	Force	X	RelDist	0,
68	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
68	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
68	SCU	GLOBAL	Force	Gravity	RelDist	0,
68	SCU	GLOBAL	Force	X	RelDist	0,
69	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
69	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
69	SCU	GLOBAL	Force	Gravity	RelDist	0,
69	SCU	GLOBAL	Force	X	RelDist	0,
70	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
70	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
70	SCU	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
70	SCU	GLOBAL	Force	X	RelDist	0,
71	CM-	GLOBAL	Force	Gravity	RelDist	0,
71	TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
	CM-					
71	TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
	CM-					
71	SCU	GLOBAL	Force	Gravity	RelDist	0,
71	SCU	GLOBAL	Force	X	RelDist	0,
72	CM-	GLOBAL	Force	Gravity	RelDist	0,
72	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	CM-					
73	CM-	GLOBAL	Force	Gravity	RelDist	0,
73	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
74	CM-	GLOBAL	Force	Gravity	RelDist	0,
74	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
75	CM-	GLOBAL	Force	Gravity	RelDist	0,
75	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
76	CM-	GLOBAL	Force	Gravity	RelDist	0,
76	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
77	CM-	GLOBAL	Force	Gravity	RelDist	0,
77	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
78	CM-	GLOBAL	Force	Gravity	RelDist	0,
78	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
79	CM-	GLOBAL	Force	Gravity	RelDist	0,
79	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
80	CM-	GLOBAL	Force	Gravity	RelDist	0,
80	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
81	CM-	GLOBAL	Force	Gravity	RelDist	0,
81	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
82	CM-	GLOBAL	Force	Gravity	RelDist	0,
82	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
83	CM-	GLOBAL	Force	Gravity	RelDist	0,
83	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
84	CM-	GLOBAL	Force	Gravity	RelDist	0,
84	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
85	CM-	GLOBAL	Force	Gravity	RelDist	0,
85	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
86	CM-	GLOBAL	Force	Gravity	RelDist	0,
86	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
87	CM-	GLOBAL	Force	Gravity	RelDist	0,
87	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
88	CM-	GLOBAL	Force	Gravity	RelDist	0,
88	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
89	CM-	GLOBAL	Force	Gravity	RelDist	0,
89	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					
90	CM-	GLOBAL	Force	Gravity	RelDist	0,
90	TRAMEX+REJILLA	GLOBAL	Force	Y	RelDist	0,
	SCU					

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
91	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
92	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
93	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
94	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
95	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
96	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
97	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
98	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
99	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
100	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
101	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
102	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
103	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
104	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
105	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
106	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
107	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
108	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
109	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
110	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
111	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
112	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
113	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
114	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
149	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
150	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
151	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
154	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
155	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
156	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
157	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
158	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
159	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
162	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
163	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
164	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
139	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
153	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
160	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
168	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
175	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
176	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 2 of 2

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
1	CM- TRAMEX+REJILLA	1,	0,22	0,22
1	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
1	SCU	1,	2,63	2,63
1	SCU	1,	0,26	0,26
2	CM- TRAMEX+REJILLA	1,	0,22	0,22
2	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
2	SCU	1,	2,63	2,63
2	SCU	1,	0,26	0,26
3	CM- TRAMEX+REJILLA	1,	0,22	0,22
3	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
3	SCU	1,	2,63	2,63
3	SCU	1,	0,26	0,26
4	CM- TRAMEX+REJILLA	1,	0,22	0,22
4	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
4	SCU	1,	2,63	2,63
4	SCU	1,	0,26	0,26
5	CM- TRAMEX+REJILLA	1,	0,22	0,22
5	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
5	SCU	1,	2,63	2,63
5	SCU	1,	0,26	0,26
6	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
6	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
6	SCU	1,	2,63	2,63
6	SCU	1,	0,26	0,26
7	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
7	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
7	SCU	1,	2,63	2,63
7	SCU	1,	0,26	0,26
8	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
8	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
8	SCU	1,	2,63	2,63
8	SCU	1,	0,26	0,26
9	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
9	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
9	SCU	1,	2,63	2,63
9	SCU	1,	0,26	0,26
10	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
10	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
10	SCU	1,	2,63	2,63
10	SCU	1,	0,26	0,26
11	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
11	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
11	SCU	1,	2,63	2,63
11	SCU	1,	0,26	0,26
12	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
12	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
12	SCU	1,	2,63	2,63
12	SCU	1,	0,26	0,26
13	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
13	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
13	SCU	1,	2,63	2,63
13	SCU	1,	0,26	0,26
14	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
14	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
14	SCU	1,	2,63	2,63
14	SCU	1,	0,26	0,26
15	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
16	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
17	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
18	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
19	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
20	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
21	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
22	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
23	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
24	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
25	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
26	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
27	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
28	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
29	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
30	CM- TRAMEX+REJILLA	1,	0,13	0,13
31	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
32	CM- TRAMEX+REJILLA	1,	0,13	0,13
33	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
34	CM- TRAMEX+REJILLA	1,	0,13	0,13
35	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
36	CM- TRAMEX+REJILLA	1,	0,13	0,13
37	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
38	CM- TRAMEX+REJILLA	1,	0,13	0,13
39	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
40	CM- TRAMEX+REJILLA	1,	0,13	0,13
41	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
42	CM- TRAMEX+REJILLA	1,	0,13	0,13
43	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
44	CM- TRAMEX+REJILLA	1,	0,13	0,13
45	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
46	CM- TRAMEX+REJILLA	1,	0,13	0,13
47	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
48	CM- TRAMEX+REJILLA	1,	0,13	0,13
49	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
50	CM- TRAMEX+REJILLA	1,	0,13	0,13
51	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
52	CM- TRAMEX+REJILLA	1,	0,13	0,13
53	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
54	CM- TRAMEX+REJILLA	1,	0,13	0,13
55	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
56	CM- TRAMEX+REJILLA	1,	0,13	0,13
57	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
58	CM- TRAMEX+REJILLA	1,	0,22	0,22
58	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
58	SCU	1,	2,63	2,63
58	SCU	1,	0,26	0,26
59	CM- TRAMEX+REJILLA	1,	0,22	0,22
59	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
59	SCU	1,	2,63	2,63
59	SCU	1,	0,26	0,26
60	CM- TRAMEX+REJILLA	1,	0,22	0,22
60	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
60	SCU	1,	2,63	2,63
60	SCU	1,	0,26	0,26
61	CM- TRAMEX+REJILLA	1,	0,22	0,22
61	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
61	SCU	1,	2,63	2,63
61	SCU	1,	0,26	0,26
62	CM- TRAMEX+REJILLA	1,	0,22	0,22
62	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
62	SCU	1,	2,63	2,63
62	SCU	1,	0,26	0,26
63	CM- TRAMEX+REJILLA	1,	0,22	0,22
63	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
63	SCU	1,	2,63	2,63

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
63	SCU	1,	0,26	0,26
64	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
64	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
64	SCU	1,	2,63	2,63
64	SCU	1,	0,26	0,26
65	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
65	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
65	SCU	1,	2,63	2,63
65	SCU	1,	0,26	0,26
66	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
66	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
66	SCU	1,	2,63	2,63
66	SCU	1,	0,26	0,26
67	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
67	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
67	SCU	1,	2,63	2,63
67	SCU	1,	0,26	0,26
68	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
68	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
68	SCU	1,	2,63	2,63
68	SCU	1,	0,26	0,26
69	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
69	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
69	SCU	1,	2,63	2,63
69	SCU	1,	0,26	0,26
70	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
70	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
70	SCU	1,	2,63	2,63
70	SCU	1,	0,26	0,26
71	CM-	1,	0,22	0,22
	TRAMEX+REJILLA			
71	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
71	SCU	1,	2,63	2,63
71	SCU	1,	0,26	0,26
72	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
72	SCU	1,	1,5	1,5
73	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
73	SCU	1,	1,5	1,5
74	CM-	1,	7,000E-02	7,000E-02
	TRAMEX+REJILLA			
74	SCU	1,	1,5	1,5

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
75	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
75	SCU	1,	1,5	1,5
76	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
76	SCU	1,	1,5	1,5
77	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
77	SCU	1,	1,5	1,5
78	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
78	SCU	1,	1,5	1,5
79	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
79	SCU	1,	1,5	1,5
80	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
80	SCU	1,	1,5	1,5
81	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
81	SCU	1,	1,5	1,5
82	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
82	SCU	1,	1,5	1,5
83	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
83	SCU	1,	1,5	1,5
84	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
84	SCU	1,	1,5	1,5
85	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
85	SCU	1,	1,5	1,5
86	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
87	CM- TRAMEX+REJILLA	1,	0,13	0,13
88	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
89	CM- TRAMEX+REJILLA	1,	0,13	0,13
90	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
91	CM- TRAMEX+REJILLA	1,	0,13	0,13
92	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
93	CM- TRAMEX+REJILLA	1,	0,13	0,13
94	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
95	CM- TRAMEX+REJILLA	1,	0,13	0,13
96	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
97	CM- TRAMEX+REJILLA	1,	0,13	0,13
98	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
99	CM- TRAMEX+REJILLA	1,	0,13	0,13
100	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
101	CM- TRAMEX+REJILLA	1,	0,13	0,13
102	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
103	CM- TRAMEX+REJILLA	1,	0,13	0,13
104	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
105	CM- TRAMEX+REJILLA	1,	0,13	0,13
106	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
107	CM- TRAMEX+REJILLA	1,	0,13	0,13
108	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
109	CM- TRAMEX+REJILLA	1,	0,13	0,13
110	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
111	CM- TRAMEX+REJILLA	1,	0,13	0,13
112	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
113	CM- TRAMEX+REJILLA	1,	0,13	0,13
114	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
149	CM- TRAMEX+REJILLA	1,	0,22	0,22
150	CM- TRAMEX+REJILLA	1,	0,22	0,22
151	CM- TRAMEX+REJILLA	1,	0,22	0,22
154	CM- TRAMEX+REJILLA	1,	0,22	0,22
155	CM- TRAMEX+REJILLA	1,	0,22	0,22
156	CM- TRAMEX+REJILLA	1,	0,22	0,22
157	CM- TRAMEX+REJILLA	1,	0,22	0,22
158	CM- TRAMEX+REJILLA	1,	0,22	0,22
159	CM- TRAMEX+REJILLA	1,	0,22	0,22
162	CM- TRAMEX+REJILLA	1,	0,22	0,22
163	CM- TRAMEX+REJILLA	1,	0,22	0,22
164	CM- TRAMEX+REJILLA	1,	0,22	0,22
139	CM- TRAMEX+REJILLA	1,	0,22	0,22
153	CM- TRAMEX+REJILLA	1,	0,22	0,22

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
160	CM- TRAMEX+REJILLA	1,	0,22	0,22
168	CM- TRAMEX+REJILLA	1,	0,22	0,22
175	CM- TRAMEX+REJILLA	1,	0,22	0,22
176	CM- TRAMEX+REJILLA	1,	0,22	0,22

Table: Link Property Definitions 01 - General, Part 1 of 3

Table: Link Property Definitions 01 - General, Part 1 of 3

Link	LinkType	Mass KN-s2/m	Weight KN	RotInert1 KN-m-s2	RotInert2 KN-m-s2	RotInert3 KN-m-s2	DefLength m
APOYO	Linear	0,	0,	0,	0,	0,	1,
RIGID	Linear	0,	0,	0,	0,	0,	1,

Table: Link Property Definitions 01 - General, Part 2 of 3

Table: Link Property Definitions 01 - General, Part 2 of 3

Link	DefArea m2	PDM2I	PDM2J	PDM3I	PDM3J	Color
APOYO	1,	0,	0,	0,	0,	Cyan
RIGID	1,	0,	0,	0,	0,	Green

Table: Link Property Definitions 01 - General, Part 3 of 3

Table: Link Property Definitions 01 - General, Part 3 of 3

Link	GUID	Notes
APOYO		Added 07/11/2018 16:44:24
RIGID		Added 07/11/2018 16:42:43

Table: Frame Loads - Temperature

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
1	TU-DIL	Temperature	41,62	None
1	TU-CON	Temperature	-13,13	None
1	GRA-HEAT	Temperature	1,	GRA-HEAT
1	GRA-COOL	Temperature	1,	GRA-COOL
2	TU-DIL	Temperature	41,62	None
2	TU-CON	Temperature	-13,13	None
2	GRA-HEAT	Temperature	1,	GRA-HEAT
2	GRA-COOL	Temperature	1,	GRA-COOL
3	TU-DIL	Temperature	41,62	None
3	TU-CON	Temperature	-13,13	None
3	GRA-HEAT	Temperature	1,	GRA-HEAT
3	GRA-COOL	Temperature	1,	GRA-COOL
4	TU-DIL	Temperature	41,62	None
4	TU-CON	Temperature	-13,13	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
4	GRA-HEAT	Temperature	1,	GRA-HEAT
4	GRA-COOL	Temperature	1,	GRA-COOL
5	TU-DIL	Temperature	41,62	None
5	TU-CON	Temperature	-13,13	None
5	GRA-HEAT	Temperature	1,	GRA-HEAT
5	GRA-COOL	Temperature	1,	GRA-COOL
6	TU-DIL	Temperature	41,62	None
6	TU-CON	Temperature	-13,13	None
6	GRA-HEAT	Temperature	1,	GRA-HEAT
6	GRA-COOL	Temperature	1,	GRA-COOL
7	TU-DIL	Temperature	41,62	None
7	TU-CON	Temperature	-13,13	None
7	GRA-HEAT	Temperature	1,	GRA-HEAT
7	GRA-COOL	Temperature	1,	GRA-COOL
8	TU-DIL	Temperature	41,62	None
8	TU-CON	Temperature	-13,13	None
8	GRA-HEAT	Temperature	1,	GRA-HEAT
8	GRA-COOL	Temperature	1,	GRA-COOL
9	TU-DIL	Temperature	41,62	None
9	TU-CON	Temperature	-13,13	None
9	GRA-HEAT	Temperature	1,	GRA-HEAT
9	GRA-COOL	Temperature	1,	GRA-COOL
10	TU-DIL	Temperature	41,62	None
10	TU-CON	Temperature	-13,13	None
10	GRA-HEAT	Temperature	1,	GRA-HEAT
10	GRA-COOL	Temperature	1,	GRA-COOL
11	TU-DIL	Temperature	41,62	None
11	TU-CON	Temperature	-13,13	None
11	GRA-HEAT	Temperature	1,	GRA-HEAT
11	GRA-COOL	Temperature	1,	GRA-COOL
12	TU-DIL	Temperature	41,62	None
12	TU-CON	Temperature	-13,13	None
12	GRA-HEAT	Temperature	1,	GRA-HEAT
12	GRA-COOL	Temperature	1,	GRA-COOL
13	TU-DIL	Temperature	41,62	None
13	TU-CON	Temperature	-13,13	None
13	GRA-HEAT	Temperature	1,	GRA-HEAT
13	GRA-COOL	Temperature	1,	GRA-COOL
14	TU-DIL	Temperature	41,62	None
14	TU-CON	Temperature	-13,13	None
14	GRA-HEAT	Temperature	1,	GRA-HEAT
14	GRA-COOL	Temperature	1,	GRA-COOL
15	TU-DIL	Temperature	41,62	None
15	TU-CON	Temperature	-13,13	None
15	GRA-HEAT	Temperature	1,	GRA-HEAT
15	GRA-COOL	Temperature	1,	GRA-COOL
16	TU-DIL	Temperature	41,62	None
16	TU-CON	Temperature	-13,13	None
16	GRA-HEAT	Temperature	1,	GRA-HEAT
16	GRA-COOL	Temperature	1,	GRA-COOL
17	TU-DIL	Temperature	41,62	None
17	TU-CON	Temperature	-13,13	None
17	GRA-HEAT	Temperature	1,	GRA-HEAT
17	GRA-COOL	Temperature	1,	GRA-COOL
18	TU-DIL	Temperature	41,62	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
18	TU-CON	Temperature	-13,13	None
18	GRA-HEAT	Temperature	1,	GRA-HEAT
18	GRA-COOL	Temperature	1,	GRA-COOL
19	TU-DIL	Temperature	41,62	None
19	TU-CON	Temperature	-13,13	None
19	GRA-HEAT	Temperature	1,	GRA-HEAT
19	GRA-COOL	Temperature	1,	GRA-COOL
20	TU-DIL	Temperature	41,62	None
20	TU-CON	Temperature	-13,13	None
20	GRA-HEAT	Temperature	1,	GRA-HEAT
20	GRA-COOL	Temperature	1,	GRA-COOL
21	TU-DIL	Temperature	41,62	None
21	TU-CON	Temperature	-13,13	None
21	GRA-HEAT	Temperature	1,	GRA-HEAT
21	GRA-COOL	Temperature	1,	GRA-COOL
22	TU-DIL	Temperature	41,62	None
22	TU-CON	Temperature	-13,13	None
22	GRA-HEAT	Temperature	1,	GRA-HEAT
22	GRA-COOL	Temperature	1,	GRA-COOL
23	TU-DIL	Temperature	41,62	None
23	TU-CON	Temperature	-13,13	None
23	GRA-HEAT	Temperature	1,	GRA-HEAT
23	GRA-COOL	Temperature	1,	GRA-COOL
24	TU-DIL	Temperature	41,62	None
24	TU-CON	Temperature	-13,13	None
24	GRA-HEAT	Temperature	1,	GRA-HEAT
24	GRA-COOL	Temperature	1,	GRA-COOL
25	TU-DIL	Temperature	41,62	None
25	TU-CON	Temperature	-13,13	None
25	GRA-HEAT	Temperature	1,	GRA-HEAT
25	GRA-COOL	Temperature	1,	GRA-COOL
26	TU-DIL	Temperature	41,62	None
26	TU-CON	Temperature	-13,13	None
26	GRA-HEAT	Temperature	1,	GRA-HEAT
26	GRA-COOL	Temperature	1,	GRA-COOL
27	TU-DIL	Temperature	41,62	None
27	TU-CON	Temperature	-13,13	None
27	GRA-HEAT	Temperature	1,	GRA-HEAT
27	GRA-COOL	Temperature	1,	GRA-COOL
28	TU-DIL	Temperature	41,62	None
28	TU-CON	Temperature	-13,13	None
28	GRA-HEAT	Temperature	1,	GRA-HEAT
28	GRA-COOL	Temperature	1,	GRA-COOL
29	TU-DIL	Temperature	41,62	None
29	TU-CON	Temperature	-13,13	None
29	GRA-HEAT	Temperature	1,	GRA-HEAT
29	GRA-COOL	Temperature	1,	GRA-COOL
30	TU-DIL	Temperature	41,62	None
30	TU-CON	Temperature	-13,13	None
30	GRA-HEAT	Temperature	1,	GRA-HEAT
30	GRA-COOL	Temperature	1,	GRA-COOL
31	TU-DIL	Temperature	41,62	None
31	TU-CON	Temperature	-13,13	None
31	GRA-HEAT	Temperature	1,	GRA-HEAT
31	GRA-COOL	Temperature	1,	GRA-COOL

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
32	TU-DIL	Temperature	41,62	None
32	TU-CON	Temperature	-13,13	None
32	GRA-HEAT	Temperature	1,	GRA-HEAT
32	GRA-COOL	Temperature	1,	GRA-COOL
33	TU-DIL	Temperature	41,62	None
33	TU-CON	Temperature	-13,13	None
33	GRA-HEAT	Temperature	1,	GRA-HEAT
33	GRA-COOL	Temperature	1,	GRA-COOL
34	TU-DIL	Temperature	41,62	None
34	TU-CON	Temperature	-13,13	None
34	GRA-HEAT	Temperature	1,	GRA-HEAT
34	GRA-COOL	Temperature	1,	GRA-COOL
35	TU-DIL	Temperature	41,62	None
35	TU-CON	Temperature	-13,13	None
35	GRA-HEAT	Temperature	1,	GRA-HEAT
35	GRA-COOL	Temperature	1,	GRA-COOL
36	TU-DIL	Temperature	41,62	None
36	TU-CON	Temperature	-13,13	None
36	GRA-HEAT	Temperature	1,	GRA-HEAT
36	GRA-COOL	Temperature	1,	GRA-COOL
37	TU-DIL	Temperature	41,62	None
37	TU-CON	Temperature	-13,13	None
37	GRA-HEAT	Temperature	1,	GRA-HEAT
37	GRA-COOL	Temperature	1,	GRA-COOL
38	TU-DIL	Temperature	41,62	None
38	TU-CON	Temperature	-13,13	None
38	GRA-HEAT	Temperature	1,	GRA-HEAT
38	GRA-COOL	Temperature	1,	GRA-COOL
39	TU-DIL	Temperature	41,62	None
39	TU-CON	Temperature	-13,13	None
39	GRA-HEAT	Temperature	1,	GRA-HEAT
39	GRA-COOL	Temperature	1,	GRA-COOL
40	TU-DIL	Temperature	41,62	None
40	TU-CON	Temperature	-13,13	None
40	GRA-HEAT	Temperature	1,	GRA-HEAT
40	GRA-COOL	Temperature	1,	GRA-COOL
41	TU-DIL	Temperature	41,62	None
41	TU-CON	Temperature	-13,13	None
41	GRA-HEAT	Temperature	1,	GRA-HEAT
41	GRA-COOL	Temperature	1,	GRA-COOL
42	TU-DIL	Temperature	41,62	None
42	TU-CON	Temperature	-13,13	None
42	GRA-HEAT	Temperature	1,	GRA-HEAT
42	GRA-COOL	Temperature	1,	GRA-COOL
43	TU-DIL	Temperature	41,62	None
43	TU-CON	Temperature	-13,13	None
43	GRA-HEAT	Temperature	1,	GRA-HEAT
43	GRA-COOL	Temperature	1,	GRA-COOL
44	TU-DIL	Temperature	41,62	None
44	TU-CON	Temperature	-13,13	None
44	GRA-HEAT	Temperature	1,	GRA-HEAT
44	GRA-COOL	Temperature	1,	GRA-COOL
45	TU-DIL	Temperature	41,62	None
45	TU-CON	Temperature	-13,13	None
45	GRA-HEAT	Temperature	1,	GRA-HEAT

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
45	GRA-COOL	Temperature	1,	GRA-COOL
46	TU-DIL	Temperature	41,62	None
46	TU-CON	Temperature	-13,13	None
46	GRA-HEAT	Temperature	1,	GRA-HEAT
46	GRA-COOL	Temperature	1,	GRA-COOL
47	TU-DIL	Temperature	41,62	None
47	TU-CON	Temperature	-13,13	None
47	GRA-HEAT	Temperature	1,	GRA-HEAT
47	GRA-COOL	Temperature	1,	GRA-COOL
48	TU-DIL	Temperature	41,62	None
48	TU-CON	Temperature	-13,13	None
48	GRA-HEAT	Temperature	1,	GRA-HEAT
48	GRA-COOL	Temperature	1,	GRA-COOL
49	TU-DIL	Temperature	41,62	None
49	TU-CON	Temperature	-13,13	None
49	GRA-HEAT	Temperature	1,	GRA-HEAT
49	GRA-COOL	Temperature	1,	GRA-COOL
50	TU-DIL	Temperature	41,62	None
50	TU-CON	Temperature	-13,13	None
50	GRA-HEAT	Temperature	1,	GRA-HEAT
50	GRA-COOL	Temperature	1,	GRA-COOL
51	TU-DIL	Temperature	41,62	None
51	TU-CON	Temperature	-13,13	None
51	GRA-HEAT	Temperature	1,	GRA-HEAT
51	GRA-COOL	Temperature	1,	GRA-COOL
52	TU-DIL	Temperature	41,62	None
52	TU-CON	Temperature	-13,13	None
52	GRA-HEAT	Temperature	1,	GRA-HEAT
52	GRA-COOL	Temperature	1,	GRA-COOL
53	TU-DIL	Temperature	41,62	None
53	TU-CON	Temperature	-13,13	None
53	GRA-HEAT	Temperature	1,	GRA-HEAT
53	GRA-COOL	Temperature	1,	GRA-COOL
54	TU-DIL	Temperature	41,62	None
54	TU-CON	Temperature	-13,13	None
54	GRA-HEAT	Temperature	1,	GRA-HEAT
54	GRA-COOL	Temperature	1,	GRA-COOL
55	TU-DIL	Temperature	41,62	None
55	TU-CON	Temperature	-13,13	None
55	GRA-HEAT	Temperature	1,	GRA-HEAT
55	GRA-COOL	Temperature	1,	GRA-COOL
56	TU-DIL	Temperature	41,62	None
56	TU-CON	Temperature	-13,13	None
56	GRA-HEAT	Temperature	1,	GRA-HEAT
56	GRA-COOL	Temperature	1,	GRA-COOL
57	TU-DIL	Temperature	41,62	None
57	TU-CON	Temperature	-13,13	None
57	GRA-HEAT	Temperature	1,	GRA-HEAT
57	GRA-COOL	Temperature	1,	GRA-COOL
58	TU-DIL	Temperature	41,62	None
58	TU-CON	Temperature	-13,13	None
58	GRA-HEAT	Temperature	1,	GRA-HEAT
58	GRA-COOL	Temperature	1,	GRA-COOL
59	TU-DIL	Temperature	41,62	None
59	TU-CON	Temperature	-13,13	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
59	GRA-HEAT	Temperature	1,	GRA-HEAT
59	GRA-COOL	Temperature	1,	GRA-COOL
60	TU-DIL	Temperature	41,62	None
60	TU-CON	Temperature	-13,13	None
60	GRA-HEAT	Temperature	1,	GRA-HEAT
60	GRA-COOL	Temperature	1,	GRA-COOL
61	TU-DIL	Temperature	41,62	None
61	TU-CON	Temperature	-13,13	None
61	GRA-HEAT	Temperature	1,	GRA-HEAT
61	GRA-COOL	Temperature	1,	GRA-COOL
62	TU-DIL	Temperature	41,62	None
62	TU-CON	Temperature	-13,13	None
62	GRA-HEAT	Temperature	1,	GRA-HEAT
62	GRA-COOL	Temperature	1,	GRA-COOL
63	TU-DIL	Temperature	41,62	None
63	TU-CON	Temperature	-13,13	None
63	GRA-HEAT	Temperature	1,	GRA-HEAT
63	GRA-COOL	Temperature	1,	GRA-COOL
64	TU-DIL	Temperature	41,62	None
64	TU-CON	Temperature	-13,13	None
64	GRA-HEAT	Temperature	1,	GRA-HEAT
64	GRA-COOL	Temperature	1,	GRA-COOL
65	TU-DIL	Temperature	41,62	None
65	TU-CON	Temperature	-13,13	None
65	GRA-HEAT	Temperature	1,	GRA-HEAT
65	GRA-COOL	Temperature	1,	GRA-COOL
66	TU-DIL	Temperature	41,62	None
66	TU-CON	Temperature	-13,13	None
66	GRA-HEAT	Temperature	1,	GRA-HEAT
66	GRA-COOL	Temperature	1,	GRA-COOL
67	TU-DIL	Temperature	41,62	None
67	TU-CON	Temperature	-13,13	None
67	GRA-HEAT	Temperature	1,	GRA-HEAT
67	GRA-COOL	Temperature	1,	GRA-COOL
68	TU-DIL	Temperature	41,62	None
68	TU-CON	Temperature	-13,13	None
68	GRA-HEAT	Temperature	1,	GRA-HEAT
68	GRA-COOL	Temperature	1,	GRA-COOL
69	TU-DIL	Temperature	41,62	None
69	TU-CON	Temperature	-13,13	None
69	GRA-HEAT	Temperature	1,	GRA-HEAT
69	GRA-COOL	Temperature	1,	GRA-COOL
70	TU-DIL	Temperature	41,62	None
70	TU-CON	Temperature	-13,13	None
70	GRA-HEAT	Temperature	1,	GRA-HEAT
70	GRA-COOL	Temperature	1,	GRA-COOL
71	TU-DIL	Temperature	41,62	None
71	TU-CON	Temperature	-13,13	None
71	GRA-HEAT	Temperature	1,	GRA-HEAT
71	GRA-COOL	Temperature	1,	GRA-COOL
72	TU-DIL	Temperature	41,62	None
72	TU-CON	Temperature	-13,13	None
72	GRA-HEAT	Temperature	1,	GRA-HEAT
72	GRA-COOL	Temperature	1,	GRA-COOL
73	TU-DIL	Temperature	41,62	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
73	TU-CON	Temperature	-13,13	None
73	GRA-HEAT	Temperature	1,	GRA-HEAT
73	GRA-COOL	Temperature	1,	GRA-COOL
74	TU-DIL	Temperature	41,62	None
74	TU-CON	Temperature	-13,13	None
74	GRA-HEAT	Temperature	1,	GRA-HEAT
74	GRA-COOL	Temperature	1,	GRA-COOL
75	TU-DIL	Temperature	41,62	None
75	TU-CON	Temperature	-13,13	None
75	GRA-HEAT	Temperature	1,	GRA-HEAT
75	GRA-COOL	Temperature	1,	GRA-COOL
76	TU-DIL	Temperature	41,62	None
76	TU-CON	Temperature	-13,13	None
76	GRA-HEAT	Temperature	1,	GRA-HEAT
76	GRA-COOL	Temperature	1,	GRA-COOL
77	TU-DIL	Temperature	41,62	None
77	TU-CON	Temperature	-13,13	None
77	GRA-HEAT	Temperature	1,	GRA-HEAT
77	GRA-COOL	Temperature	1,	GRA-COOL
78	TU-DIL	Temperature	41,62	None
78	TU-CON	Temperature	-13,13	None
78	GRA-HEAT	Temperature	1,	GRA-HEAT
78	GRA-COOL	Temperature	1,	GRA-COOL
79	TU-DIL	Temperature	41,62	None
79	TU-CON	Temperature	-13,13	None
79	GRA-HEAT	Temperature	1,	GRA-HEAT
79	GRA-COOL	Temperature	1,	GRA-COOL
80	TU-DIL	Temperature	41,62	None
80	TU-CON	Temperature	-13,13	None
80	GRA-HEAT	Temperature	1,	GRA-HEAT
80	GRA-COOL	Temperature	1,	GRA-COOL
81	TU-DIL	Temperature	41,62	None
81	TU-CON	Temperature	-13,13	None
81	GRA-HEAT	Temperature	1,	GRA-HEAT
81	GRA-COOL	Temperature	1,	GRA-COOL
82	TU-DIL	Temperature	41,62	None
82	TU-CON	Temperature	-13,13	None
82	GRA-HEAT	Temperature	1,	GRA-HEAT
82	GRA-COOL	Temperature	1,	GRA-COOL
83	TU-DIL	Temperature	41,62	None
83	TU-CON	Temperature	-13,13	None
83	GRA-HEAT	Temperature	1,	GRA-HEAT
83	GRA-COOL	Temperature	1,	GRA-COOL
84	TU-DIL	Temperature	41,62	None
84	TU-CON	Temperature	-13,13	None
84	GRA-HEAT	Temperature	1,	GRA-HEAT
84	GRA-COOL	Temperature	1,	GRA-COOL
85	TU-DIL	Temperature	41,62	None
85	TU-CON	Temperature	-13,13	None
85	GRA-HEAT	Temperature	1,	GRA-HEAT
85	GRA-COOL	Temperature	1,	GRA-COOL
86	TU-DIL	Temperature	41,62	None
86	TU-CON	Temperature	-13,13	None
86	GRA-HEAT	Temperature	1,	GRA-HEAT
86	GRA-COOL	Temperature	1,	GRA-COOL

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
87	TU-DIL	Temperature	41,62	None
87	TU-CON	Temperature	-13,13	None
87	GRA-HEAT	Temperature	1,	GRA-HEAT
87	GRA-COOL	Temperature	1,	GRA-COOL
88	TU-DIL	Temperature	41,62	None
88	TU-CON	Temperature	-13,13	None
88	GRA-HEAT	Temperature	1,	GRA-HEAT
88	GRA-COOL	Temperature	1,	GRA-COOL
89	TU-DIL	Temperature	41,62	None
89	TU-CON	Temperature	-13,13	None
89	GRA-HEAT	Temperature	1,	GRA-HEAT
89	GRA-COOL	Temperature	1,	GRA-COOL
90	TU-DIL	Temperature	41,62	None
90	TU-CON	Temperature	-13,13	None
90	GRA-HEAT	Temperature	1,	GRA-HEAT
90	GRA-COOL	Temperature	1,	GRA-COOL
91	TU-DIL	Temperature	41,62	None
91	TU-CON	Temperature	-13,13	None
91	GRA-HEAT	Temperature	1,	GRA-HEAT
91	GRA-COOL	Temperature	1,	GRA-COOL
92	TU-DIL	Temperature	41,62	None
92	TU-CON	Temperature	-13,13	None
92	GRA-HEAT	Temperature	1,	GRA-HEAT
92	GRA-COOL	Temperature	1,	GRA-COOL
93	TU-DIL	Temperature	41,62	None
93	TU-CON	Temperature	-13,13	None
93	GRA-HEAT	Temperature	1,	GRA-HEAT
93	GRA-COOL	Temperature	1,	GRA-COOL
94	TU-DIL	Temperature	41,62	None
94	TU-CON	Temperature	-13,13	None
94	GRA-HEAT	Temperature	1,	GRA-HEAT
94	GRA-COOL	Temperature	1,	GRA-COOL
95	TU-DIL	Temperature	41,62	None
95	TU-CON	Temperature	-13,13	None
95	GRA-HEAT	Temperature	1,	GRA-HEAT
95	GRA-COOL	Temperature	1,	GRA-COOL
96	TU-DIL	Temperature	41,62	None
96	TU-CON	Temperature	-13,13	None
96	GRA-HEAT	Temperature	1,	GRA-HEAT
96	GRA-COOL	Temperature	1,	GRA-COOL
97	TU-DIL	Temperature	41,62	None
97	TU-CON	Temperature	-13,13	None
97	GRA-HEAT	Temperature	1,	GRA-HEAT
97	GRA-COOL	Temperature	1,	GRA-COOL
98	TU-DIL	Temperature	41,62	None
98	TU-CON	Temperature	-13,13	None
98	GRA-HEAT	Temperature	1,	GRA-HEAT
98	GRA-COOL	Temperature	1,	GRA-COOL
99	TU-DIL	Temperature	41,62	None
99	TU-CON	Temperature	-13,13	None
99	GRA-HEAT	Temperature	1,	GRA-HEAT
99	GRA-COOL	Temperature	1,	GRA-COOL
100	TU-DIL	Temperature	41,62	None
100	TU-CON	Temperature	-13,13	None
100	GRA-HEAT	Temperature	1,	GRA-HEAT

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
100	GRA-COOL	Temperature	1,	GRA-COOL
101	TU-DIL	Temperature	41,62	None
101	TU-CON	Temperature	-13,13	None
101	GRA-HEAT	Temperature	1,	GRA-HEAT
101	GRA-COOL	Temperature	1,	GRA-COOL
102	TU-DIL	Temperature	41,62	None
102	TU-CON	Temperature	-13,13	None
102	GRA-HEAT	Temperature	1,	GRA-HEAT
102	GRA-COOL	Temperature	1,	GRA-COOL
103	TU-DIL	Temperature	41,62	None
103	TU-CON	Temperature	-13,13	None
103	GRA-HEAT	Temperature	1,	GRA-HEAT
103	GRA-COOL	Temperature	1,	GRA-COOL
104	TU-DIL	Temperature	41,62	None
104	TU-CON	Temperature	-13,13	None
104	GRA-HEAT	Temperature	1,	GRA-HEAT
104	GRA-COOL	Temperature	1,	GRA-COOL
105	TU-DIL	Temperature	41,62	None
105	TU-CON	Temperature	-13,13	None
105	GRA-HEAT	Temperature	1,	GRA-HEAT
105	GRA-COOL	Temperature	1,	GRA-COOL
106	TU-DIL	Temperature	41,62	None
106	TU-CON	Temperature	-13,13	None
106	GRA-HEAT	Temperature	1,	GRA-HEAT
106	GRA-COOL	Temperature	1,	GRA-COOL
107	TU-DIL	Temperature	41,62	None
107	TU-CON	Temperature	-13,13	None
107	GRA-HEAT	Temperature	1,	GRA-HEAT
107	GRA-COOL	Temperature	1,	GRA-COOL
108	TU-DIL	Temperature	41,62	None
108	TU-CON	Temperature	-13,13	None
108	GRA-HEAT	Temperature	1,	GRA-HEAT
108	GRA-COOL	Temperature	1,	GRA-COOL
109	TU-DIL	Temperature	41,62	None
109	TU-CON	Temperature	-13,13	None
109	GRA-HEAT	Temperature	1,	GRA-HEAT
109	GRA-COOL	Temperature	1,	GRA-COOL
110	TU-DIL	Temperature	41,62	None
110	TU-CON	Temperature	-13,13	None
110	GRA-HEAT	Temperature	1,	GRA-HEAT
110	GRA-COOL	Temperature	1,	GRA-COOL
111	TU-DIL	Temperature	41,62	None
111	TU-CON	Temperature	-13,13	None
111	GRA-HEAT	Temperature	1,	GRA-HEAT
111	GRA-COOL	Temperature	1,	GRA-COOL
112	TU-DIL	Temperature	41,62	None
112	TU-CON	Temperature	-13,13	None
112	GRA-HEAT	Temperature	1,	GRA-HEAT
112	GRA-COOL	Temperature	1,	GRA-COOL
113	TU-DIL	Temperature	41,62	None
113	TU-CON	Temperature	-13,13	None
113	GRA-HEAT	Temperature	1,	GRA-HEAT
113	GRA-COOL	Temperature	1,	GRA-COOL
114	TU-DIL	Temperature	41,62	None
114	TU-CON	Temperature	-13,13	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
114	GRA-HEAT	Temperature	1,	GRA-HEAT
114	GRA-COOL	Temperature	1,	GRA-COOL
115	TU-DIL	Temperature	41,62	None
115	TU-CON	Temperature	-13,13	None
115	GRA-HEAT	Temperature	1,	GRA-HEAT
115	GRA-COOL	Temperature	1,	GRA-COOL
116	TU-DIL	Temperature	41,62	None
116	TU-CON	Temperature	-13,13	None
116	GRA-HEAT	Temperature	1,	GRA-HEAT
116	GRA-COOL	Temperature	1,	GRA-COOL
117	TU-DIL	Temperature	41,62	None
117	TU-CON	Temperature	-13,13	None
117	GRA-HEAT	Temperature	1,	GRA-HEAT
117	GRA-COOL	Temperature	1,	GRA-COOL
118	TU-DIL	Temperature	41,62	None
118	TU-CON	Temperature	-13,13	None
118	GRA-HEAT	Temperature	1,	GRA-HEAT
118	GRA-COOL	Temperature	1,	GRA-COOL
119	TU-DIL	Temperature	41,62	None
119	TU-CON	Temperature	-13,13	None
119	GRA-HEAT	Temperature	1,	GRA-HEAT
119	GRA-COOL	Temperature	1,	GRA-COOL
120	TU-DIL	Temperature	41,62	None
120	TU-CON	Temperature	-13,13	None
120	GRA-HEAT	Temperature	1,	GRA-HEAT
120	GRA-COOL	Temperature	1,	GRA-COOL
121	TU-DIL	Temperature	41,62	None
121	TU-CON	Temperature	-13,13	None
121	GRA-HEAT	Temperature	1,	GRA-HEAT
121	GRA-COOL	Temperature	1,	GRA-COOL
122	TU-DIL	Temperature	41,62	None
122	TU-CON	Temperature	-13,13	None
122	GRA-HEAT	Temperature	1,	GRA-HEAT
122	GRA-COOL	Temperature	1,	GRA-COOL
123	TU-DIL	Temperature	41,62	None
123	TU-CON	Temperature	-13,13	None
123	GRA-HEAT	Temperature	1,	GRA-HEAT
123	GRA-COOL	Temperature	1,	GRA-COOL
124	TU-DIL	Temperature	41,62	None
124	TU-CON	Temperature	-13,13	None
124	GRA-HEAT	Temperature	1,	GRA-HEAT
124	GRA-COOL	Temperature	1,	GRA-COOL
125	TU-DIL	Temperature	41,62	None
125	TU-CON	Temperature	-13,13	None
125	GRA-HEAT	Temperature	1,	GRA-HEAT
125	GRA-COOL	Temperature	1,	GRA-COOL
126	TU-DIL	Temperature	41,62	None
126	TU-CON	Temperature	-13,13	None
126	GRA-HEAT	Temperature	1,	GRA-HEAT
126	GRA-COOL	Temperature	1,	GRA-COOL
127	TU-DIL	Temperature	41,62	None
127	TU-CON	Temperature	-13,13	None
127	GRA-HEAT	Temperature	1,	GRA-HEAT
127	GRA-COOL	Temperature	1,	GRA-COOL
128	TU-DIL	Temperature	41,62	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
128	TU-CON	Temperature	-13,13	None
128	GRA-HEAT	Temperature	1,	GRA-HEAT
128	GRA-COOL	Temperature	1,	GRA-COOL
129	TU-DIL	Temperature	41,62	None
129	TU-CON	Temperature	-13,13	None
129	GRA-HEAT	Temperature	1,	GRA-HEAT
129	GRA-COOL	Temperature	1,	GRA-COOL
130	TU-DIL	Temperature	41,62	None
130	TU-CON	Temperature	-13,13	None
130	GRA-HEAT	Temperature	1,	GRA-HEAT
130	GRA-COOL	Temperature	1,	GRA-COOL
131	TU-DIL	Temperature	41,62	None
131	TU-CON	Temperature	-13,13	None
131	GRA-HEAT	Temperature	1,	GRA-HEAT
131	GRA-COOL	Temperature	1,	GRA-COOL
133	TU-DIL	Temperature	41,62	None
133	TU-CON	Temperature	-13,13	None
133	GRA-HEAT	Temperature	1,	GRA-HEAT
133	GRA-COOL	Temperature	1,	GRA-COOL
134	TU-DIL	Temperature	41,62	None
134	TU-CON	Temperature	-13,13	None
134	GRA-HEAT	Temperature	1,	GRA-HEAT
134	GRA-COOL	Temperature	1,	GRA-COOL
135	TU-DIL	Temperature	41,62	None
135	TU-CON	Temperature	-13,13	None
135	GRA-HEAT	Temperature	1,	GRA-HEAT
135	GRA-COOL	Temperature	1,	GRA-COOL
136	TU-DIL	Temperature	41,62	None
136	TU-CON	Temperature	-13,13	None
136	GRA-HEAT	Temperature	1,	GRA-HEAT
136	GRA-COOL	Temperature	1,	GRA-COOL
137	TU-DIL	Temperature	41,62	None
137	TU-CON	Temperature	-13,13	None
137	GRA-HEAT	Temperature	1,	GRA-HEAT
137	GRA-COOL	Temperature	1,	GRA-COOL
138	TU-DIL	Temperature	41,62	None
138	TU-CON	Temperature	-13,13	None
138	GRA-HEAT	Temperature	1,	GRA-HEAT
138	GRA-COOL	Temperature	1,	GRA-COOL
141	TU-DIL	Temperature	41,62	None
141	TU-CON	Temperature	-13,13	None
141	GRA-HEAT	Temperature	1,	GRA-HEAT
141	GRA-COOL	Temperature	1,	GRA-COOL
142	TU-DIL	Temperature	41,62	None
142	TU-CON	Temperature	-13,13	None
142	GRA-HEAT	Temperature	1,	GRA-HEAT
142	GRA-COOL	Temperature	1,	GRA-COOL
143	TU-DIL	Temperature	41,62	None
143	TU-CON	Temperature	-13,13	None
143	GRA-HEAT	Temperature	1,	GRA-HEAT
143	GRA-COOL	Temperature	1,	GRA-COOL
144	TU-DIL	Temperature	41,62	None
144	TU-CON	Temperature	-13,13	None
144	GRA-HEAT	Temperature	1,	GRA-HEAT
144	GRA-COOL	Temperature	1,	GRA-COOL

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
145	TU-DIL	Temperature	41,62	None
145	TU-CON	Temperature	-13,13	None
145	GRA-HEAT	Temperature	1,	GRA-HEAT
145	GRA-COOL	Temperature	1,	GRA-COOL
146	TU-DIL	Temperature	41,62	None
146	TU-CON	Temperature	-13,13	None
146	GRA-HEAT	Temperature	1,	GRA-HEAT
146	GRA-COOL	Temperature	1,	GRA-COOL
147	TU-DIL	Temperature	41,62	None
147	TU-CON	Temperature	-13,13	None
147	GRA-HEAT	Temperature	1,	GRA-HEAT
147	GRA-COOL	Temperature	1,	GRA-COOL
148	TU-DIL	Temperature	41,62	None
148	TU-CON	Temperature	-13,13	None
148	GRA-HEAT	Temperature	1,	GRA-HEAT
148	GRA-COOL	Temperature	1,	GRA-COOL
149	TU-DIL	Temperature	41,62	None
149	TU-CON	Temperature	-13,13	None
149	GRA-HEAT	Temperature	1,	GRA-HEAT
149	GRA-COOL	Temperature	1,	GRA-COOL
150	TU-DIL	Temperature	41,62	None
150	TU-CON	Temperature	-13,13	None
150	GRA-HEAT	Temperature	1,	GRA-HEAT
150	GRA-COOL	Temperature	1,	GRA-COOL
151	TU-DIL	Temperature	41,62	None
151	TU-CON	Temperature	-13,13	None
151	GRA-HEAT	Temperature	1,	GRA-HEAT
151	GRA-COOL	Temperature	1,	GRA-COOL
154	TU-DIL	Temperature	41,62	None
154	TU-CON	Temperature	-13,13	None
154	GRA-HEAT	Temperature	1,	GRA-HEAT
154	GRA-COOL	Temperature	1,	GRA-COOL
155	TU-DIL	Temperature	41,62	None
155	TU-CON	Temperature	-13,13	None
155	GRA-HEAT	Temperature	1,	GRA-HEAT
155	GRA-COOL	Temperature	1,	GRA-COOL
156	TU-DIL	Temperature	41,62	None
156	TU-CON	Temperature	-13,13	None
156	GRA-HEAT	Temperature	1,	GRA-HEAT
156	GRA-COOL	Temperature	1,	GRA-COOL
157	TU-DIL	Temperature	41,62	None
157	TU-CON	Temperature	-13,13	None
157	GRA-HEAT	Temperature	1,	GRA-HEAT
157	GRA-COOL	Temperature	1,	GRA-COOL
158	TU-DIL	Temperature	41,62	None
158	TU-CON	Temperature	-13,13	None
158	GRA-HEAT	Temperature	1,	GRA-HEAT
158	GRA-COOL	Temperature	1,	GRA-COOL
159	TU-DIL	Temperature	41,62	None
159	TU-CON	Temperature	-13,13	None
159	GRA-HEAT	Temperature	1,	GRA-HEAT
159	GRA-COOL	Temperature	1,	GRA-COOL
162	TU-DIL	Temperature	41,62	None
162	TU-CON	Temperature	-13,13	None
162	GRA-HEAT	Temperature	1,	GRA-HEAT

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
162	GRA-COOL	Temperature	1,	GRA-COOL
163	TU-DIL	Temperature	41,62	None
163	TU-CON	Temperature	-13,13	None
163	GRA-HEAT	Temperature	1,	GRA-HEAT
163	GRA-COOL	Temperature	1,	GRA-COOL
164	TU-DIL	Temperature	41,62	None
164	TU-CON	Temperature	-13,13	None
164	GRA-HEAT	Temperature	1,	GRA-HEAT
164	GRA-COOL	Temperature	1,	GRA-COOL
139	TU-DIL	Temperature	41,62	None
139	TU-CON	Temperature	-13,13	None
139	GRA-HEAT	Temperature	1,	GRA-HEAT
139	GRA-COOL	Temperature	1,	GRA-COOL
153	TU-DIL	Temperature	41,62	None
153	TU-CON	Temperature	-13,13	None
153	GRA-HEAT	Temperature	1,	GRA-HEAT
153	GRA-COOL	Temperature	1,	GRA-COOL
160	TU-DIL	Temperature	41,62	None
160	TU-CON	Temperature	-13,13	None
160	GRA-HEAT	Temperature	1,	GRA-HEAT
160	GRA-COOL	Temperature	1,	GRA-COOL
168	TU-DIL	Temperature	41,62	None
168	TU-CON	Temperature	-13,13	None
168	GRA-HEAT	Temperature	1,	GRA-HEAT
168	GRA-COOL	Temperature	1,	GRA-COOL
169	TU-DIL	Temperature	41,62	None
169	TU-CON	Temperature	-13,13	None
169	GRA-HEAT	Temperature	1,	GRA-HEAT
169	GRA-COOL	Temperature	1,	GRA-COOL
170	TU-DIL	Temperature	41,62	None
170	TU-CON	Temperature	-13,13	None
170	GRA-HEAT	Temperature	1,	GRA-HEAT
170	GRA-COOL	Temperature	1,	GRA-COOL
171	TU-DIL	Temperature	41,62	None
171	TU-CON	Temperature	-13,13	None
171	GRA-HEAT	Temperature	1,	GRA-HEAT
171	GRA-COOL	Temperature	1,	GRA-COOL
172	TU-DIL	Temperature	41,62	None
172	TU-CON	Temperature	-13,13	None
172	GRA-HEAT	Temperature	1,	GRA-HEAT
172	GRA-COOL	Temperature	1,	GRA-COOL
173	TU-DIL	Temperature	41,62	None
173	TU-CON	Temperature	-13,13	None
173	GRA-HEAT	Temperature	1,	GRA-HEAT
173	GRA-COOL	Temperature	1,	GRA-COOL
174	TU-DIL	Temperature	41,62	None
174	TU-CON	Temperature	-13,13	None
174	GRA-HEAT	Temperature	1,	GRA-HEAT
174	GRA-COOL	Temperature	1,	GRA-COOL
175	TU-DIL	Temperature	41,62	None
175	TU-CON	Temperature	-13,13	None
175	GRA-HEAT	Temperature	1,	GRA-HEAT
175	GRA-COOL	Temperature	1,	GRA-COOL
176	TU-DIL	Temperature	41,62	None
176	TU-CON	Temperature	-13,13	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
176	GRA-HEAT	Temperature	1,	GRA-HEAT
176	GRA-COOL	Temperature	1,	GRA-COOL

Table: Joint Loads - Force, Part 1 of 2

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
1	VTSSC	GLOBAL	0,	8,54	5,54	0,	0,
1	VTCSC	GLOBAL	0,	12,79	7,38	0,	0,
1	VLSSC	GLOBAL	3,99	0,	0,	0,	0,
1	VLCSC	GLOBAL	5,98	0,	0,	0,	0,
1	VV	GLOBAL	0,	0,	4,9	0,	0,
15	VTSSC	GLOBAL	0,	8,54	5,54	0,	0,
15	VTCSC	GLOBAL	0,	12,79	7,38	0,	0,
15	VLSSC	GLOBAL	3,99	0,	0,	0,	0,
15	VLCSC	GLOBAL	5,98	0,	0,	0,	0,
15	VV	GLOBAL	0,	0,	4,9	0,	0,
31	VTSSC	GLOBAL	0,	8,54	-5,54	0,	0,
31	VTCSC	GLOBAL	0,	12,79	-7,38	0,	0,
31	VLSSC	GLOBAL	3,99	0,	0,	0,	0,
31	VLCSC	GLOBAL	5,98	0,	0,	0,	0,
31	VV	GLOBAL	0,	0,	1,63	0,	0,
45	VTSSC	GLOBAL	0,	8,54	-5,54	0,	0,
45	VTCSC	GLOBAL	0,	12,79	-7,38	0,	0,
45	VLSSC	GLOBAL	3,99	0,	0,	0,	0,
45	VLCSC	GLOBAL	5,98	0,	0,	0,	0,
45	VV	GLOBAL	0,	0,	1,63	0,	0,

Table: Joint Loads - Force, Part 2 of 2

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m
1	VTSSC	0,
1	VTCSC	0,
1	VLSSC	0,
1	VLCSC	0,
1	VV	0,
15	VTSSC	0,
15	VTCSC	0,
15	VLSSC	0,
15	VLCSC	0,
15	VV	0,
31	VTSSC	0,
31	VTCSC	0,
31	VLSSC	0,
31	VLCSC	0,
31	VV	0,
45	VTSSC	0,
45	VTCSC	0,
45	VLSSC	0,
45	VLCSC	0,

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m
45	VV	0,

Table: Joint Pattern Assignments

Table: Joint Pattern Assignments

Joint	Pattern	Value
1	GRA-HEAT	4,769
1	GRA-COOL	7,272
2	GRA-HEAT	4,769
2	GRA-COOL	7,272
3	GRA-HEAT	4,769
3	GRA-COOL	7,272
4	GRA-HEAT	4,769
4	GRA-COOL	7,272
5	GRA-HEAT	4,769
5	GRA-COOL	7,272
6	GRA-HEAT	4,769
6	GRA-COOL	7,272
7	GRA-HEAT	4,769
7	GRA-COOL	7,272
8	GRA-HEAT	4,769
8	GRA-COOL	7,272
9	GRA-HEAT	4,769
9	GRA-COOL	7,272
10	GRA-HEAT	4,769
10	GRA-COOL	7,272
11	GRA-HEAT	4,769
11	GRA-COOL	7,272
12	GRA-HEAT	4,769
12	GRA-COOL	7,272
13	GRA-HEAT	4,769
13	GRA-COOL	7,272
14	GRA-HEAT	4,769
14	GRA-COOL	7,272
15	GRA-HEAT	4,769
15	GRA-COOL	7,272
16	GRA-HEAT	12,60244
16	GRA-COOL	-0,001197
17	GRA-HEAT	12,60244
17	GRA-COOL	-0,001197
18	GRA-HEAT	12,60244
18	GRA-COOL	-0,001197
19	GRA-HEAT	12,60244
19	GRA-COOL	-0,001197
20	GRA-HEAT	12,60244
20	GRA-COOL	-0,001197
21	GRA-HEAT	12,60244
21	GRA-COOL	-0,001197
22	GRA-HEAT	12,60244
22	GRA-COOL	-0,001197
23	GRA-HEAT	12,60244
23	GRA-COOL	-0,001197
24	GRA-HEAT	12,60244

Table: Joint Pattern Assignments

Joint	Pattern	Value
24	GRA-COOL	-0,001197
25	GRA-HEAT	12,60244
25	GRA-COOL	-0,001197
26	GRA-HEAT	12,60244
26	GRA-COOL	-0,001197
27	GRA-HEAT	12,60244
27	GRA-COOL	-0,001197
28	GRA-HEAT	12,60244
28	GRA-COOL	-0,001197
29	GRA-HEAT	12,60244
29	GRA-COOL	-0,001197
30	GRA-HEAT	12,60244
30	GRA-COOL	-0,001197
31	GRA-HEAT	4,769
31	GRA-COOL	7,272
32	GRA-HEAT	4,769
32	GRA-COOL	7,272
33	GRA-HEAT	4,769
33	GRA-COOL	7,272
34	GRA-HEAT	4,769
34	GRA-COOL	7,272
35	GRA-HEAT	4,769
35	GRA-COOL	7,272
36	GRA-HEAT	4,769
36	GRA-COOL	7,272
37	GRA-HEAT	4,769
37	GRA-COOL	7,272
38	GRA-HEAT	4,769
38	GRA-COOL	7,272
39	GRA-HEAT	4,769
39	GRA-COOL	7,272
40	GRA-HEAT	4,769
40	GRA-COOL	7,272
41	GRA-HEAT	4,769
41	GRA-COOL	7,272
42	GRA-HEAT	4,769
42	GRA-COOL	7,272
43	GRA-HEAT	4,769
43	GRA-COOL	7,272
44	GRA-HEAT	4,769
44	GRA-COOL	7,272
45	GRA-HEAT	4,769
45	GRA-COOL	7,272
46	GRA-HEAT	12,60244
46	GRA-COOL	-0,001197
47	GRA-HEAT	12,60244
47	GRA-COOL	-0,001197
48	GRA-HEAT	12,60244
48	GRA-COOL	-0,001197
49	GRA-HEAT	12,60244
49	GRA-COOL	-0,001197
50	GRA-HEAT	12,60244
50	GRA-COOL	-0,001197
51	GRA-HEAT	12,60244
51	GRA-COOL	-0,001197

Table: Joint Pattern Assignments

Joint	Pattern	Value
52	GRA-HEAT	12,60244
52	GRA-COOL	-0,001197
53	GRA-HEAT	12,60244
53	GRA-COOL	-0,001197
54	GRA-HEAT	12,60244
54	GRA-COOL	-0,001197
55	GRA-HEAT	12,60244
55	GRA-COOL	-0,001197
56	GRA-HEAT	12,60244
56	GRA-COOL	-0,001197
57	GRA-HEAT	12,60244
57	GRA-COOL	-0,001197
58	GRA-HEAT	12,60244
58	GRA-COOL	-0,001197
59	GRA-HEAT	12,60244
59	GRA-COOL	-0,001197
60	GRA-HEAT	12,60244
60	GRA-COOL	-0,001197
91	GRA-HEAT	0,00045
91	GRA-COOL	11,699506
92	GRA-HEAT	0,00045
92	GRA-COOL	11,699506
93	GRA-HEAT	0,00045
93	GRA-COOL	11,699506
94	GRA-HEAT	0,00045
94	GRA-COOL	11,699506
97	GRA-HEAT	0,00045
97	GRA-COOL	11,699506
98	GRA-HEAT	0,00045
98	GRA-COOL	11,699506
99	GRA-HEAT	0,00045
99	GRA-COOL	11,699506
100	GRA-HEAT	0,00045
100	GRA-COOL	11,699506
101	GRA-HEAT	0,00045
101	GRA-COOL	11,699506
102	GRA-HEAT	0,00045
102	GRA-COOL	11,699506
103	GRA-HEAT	0,00045
103	GRA-COOL	11,699506
104	GRA-HEAT	0,00045
104	GRA-COOL	11,699506
105	GRA-HEAT	0,00045
105	GRA-COOL	11,699506
106	GRA-HEAT	0,00045
106	GRA-COOL	11,699506
107	GRA-HEAT	0,00045
107	GRA-COOL	11,699506
108	GRA-HEAT	0,00045
108	GRA-COOL	11,699506
61	GRA-HEAT	0,00045
61	GRA-COOL	11,699506
62	GRA-HEAT	0,00045
62	GRA-COOL	11,699506
63	GRA-HEAT	0,00045

Table: Joint Pattern Assignments

Joint	Pattern	Value
63	GRA-COOL	11,699506
64	GRA-HEAT	0,00045
64	GRA-COOL	11,699506

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 1 of 2

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1	HE140B	Beam	No Messages	0,116856	PMM
2	HE140B	Beam	No Messages	0,083047	PMM
3	HE140B	Beam	No Messages	0,070691	PMM
4	HE140B	Beam	No Messages	0,060694	PMM
5	HE140B	Beam	No Messages	0,044994	PMM
6	HE140B	Beam	No Messages	0,054956	PMM
7	HE140B	Beam	No Messages	0,062126	PMM
8	HE140B	Beam	No Messages	0,062023	PMM
9	HE140B	Beam	No Messages	0,054935	PMM
10	HE140B	Beam	No Messages	0,044704	PMM
11	HE140B	Beam	No Messages	0,061245	PMM
12	HE140B	Beam	No Messages	0,070545	PMM
13	HE140B	Beam	No Messages	0,083024	PMM
14	HE140B	Beam	No Messages	0,116948	PMM
15	HE140B	Beam	No Messages	0,066046	PMM
16	HE140B	Beam	No Messages	0,099633	PMM
17	HE140B	Beam	No Messages	0,131757	PMM
18	HE140B	Beam	No Messages	0,147197	PMM
19	HE140B	Beam	No Messages	0,169551	PMM
20	HE140B	Beam	No Messages	0,196524	PMM
21	HE140B	Beam	No Messages	0,202388	PMM
22	HE140B	Beam	No Messages	0,202339	PMM
23	HE140B	Beam	No Messages	0,197036	PMM
24	HE140B	Beam	No Messages	0,169734	PMM
25	HE140B	Beam	No Messages	0,146934	PMM
26	HE140B	Beam	No Messages	0,130857	PMM
27	HE140B	Beam	No Messages	0,099048	PMM
28	HE140B	Beam	No Messages	0,066048	PMM
29	TUBO100X100X8	Column	No Messages	0,004214	PMM
30	TUBO100X100X8	Brace	No Messages	0,017566	PMM
31	TUBO100X100X8	Column	No Messages	0,024173	PMM
32	TUBO100X100X8	Brace	No Messages	0,021786	PMM
33	TUBO100X100X8	Column	No Messages	0,027029	PMM
34	TUBO100X100X8	Brace	No Messages	0,034953	PMM
35	TUBO100X100X8	Column	No Messages	0,049478	PMM
36	TUBO100X100X8	Brace	No Messages	0,038158	PMM
37	TUBO100X100X8	Column	No Messages	0,042488	PMM
38	TUBO100X100X8	Brace	No Messages	0,055148	PMM
39	TUBO100X100X8	Column	No Messages	0,062714	PMM
40	TUBO100X100X8	Brace	No Messages	0,054762	PMM
41	TUBO100X100X8	Column	No Messages	0,07779	PMM
42	TUBO100X100X8	Brace	No Messages	0,072733	PMM
43	TUBO100X100X8	Column	No Messages	0,117261	PMM
44	TUBO100X100X8	Brace	No Messages	0,017862	PMM
45	TUBO100X100X8	Column	No Messages	0,02387	PMM

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
46	TUBO100X100X8	Brace	No Messages	0,022194	PMM
47	TUBO100X100X8	Column	No Messages	0,027463	PMM
48	TUBO100X100X8	Brace	No Messages	0,035419	PMM
49	TUBO100X100X8	Column	No Messages	0,049933	PMM
50	TUBO100X100X8	Brace	No Messages	0,038252	PMM
51	TUBO100X100X8	Column	No Messages	0,043001	PMM
52	TUBO100X100X8	Brace	No Messages	0,054976	PMM
53	TUBO100X100X8	Column	No Messages	0,062487	PMM
54	TUBO100X100X8	Brace	No Messages	0,054439	PMM
55	TUBO100X100X8	Column	No Messages	0,077452	PMM
56	TUBO100X100X8	Brace	No Messages	0,072453	PMM
57	TUBO100X100X8	Column	No Messages	0,11695	PMM
58	HE140B	Beam	No Messages	0,155626	PMM
59	HE140B	Beam	No Messages	0,132694	PMM
60	HE140B	Beam	No Messages	0,126121	PMM
61	HE140B	Beam	No Messages	0,109965	PMM
62	HE140B	Beam	No Messages	0,145116	PMM
63	HE140B	Beam	No Messages	0,167083	PMM
64	HE140B	Beam	No Messages	0,179283	PMM
65	HE140B	Beam	No Messages	0,179639	PMM
66	HE140B	Beam	No Messages	0,166124	PMM
67	HE140B	Beam	No Messages	0,142645	PMM
68	HE140B	Beam	No Messages	0,106053	PMM
69	HE140B	Beam	No Messages	0,125655	PMM
70	HE140B	Beam	No Messages	0,132917	PMM
71	HE140B	Beam	No Messages	0,155355	PMM
72	HE140B	Beam	No Messages	0,104051	PMM
73	HE140B	Beam	No Messages	0,156138	PMM
74	HE140B	Beam	No Messages	0,199135	PMM
75	HE140B	Beam	No Messages	0,257169	PMM
76	HE140B	Beam	No Messages	0,283263	PMM
77	HE140B	Beam	No Messages	0,329461	PMM
78	HE140B	Beam	No Messages	0,342413	PMM
79	HE140B	Beam	No Messages	0,342326	PMM
80	HE140B	Beam	No Messages	0,330796	PMM
81	HE140B	Beam	No Messages	0,283502	PMM
82	HE140B	Beam	No Messages	0,256349	PMM
83	HE140B	Beam	No Messages	0,196839	PMM
84	HE140B	Beam	No Messages	0,154631	PMM
85	HE140B	Beam	No Messages	0,103596	PMM
86	TUBO100X100X8	Column	No Messages	0,01379	PMM
87	TUBO100X100X8	Brace	No Messages	0,043433	PMM
88	TUBO100X100X8	Column	No Messages	0,044318	PMM
89	TUBO100X100X8	Brace	No Messages	0,067377	PMM
90	TUBO100X100X8	Column	No Messages	0,066892	PMM
91	TUBO100X100X8	Brace	No Messages	0,073273	PMM
92	TUBO100X100X8	Column	No Messages	0,223154	PMM
93	TUBO100X100X8	Brace	No Messages	0,055816	PMM
94	TUBO100X100X8	Column	No Messages	0,139862	PMM
95	TUBO100X100X8	Brace	No Messages	0,075275	PMM
96	TUBO100X100X8	Column	No Messages	0,132725	PMM
97	TUBO100X100X8	Brace	No Messages	0,091677	PMM
98	TUBO100X100X8	Column	No Messages	0,1503	PMM
99	TUBO100X100X8	Brace	No Messages	0,120441	PMM
100	TUBO100X100X8	Column	No Messages	0,191357	PMM

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
101	TUBO100X100X8	Brace	No Messages	0,043745	PMM
102	TUBO100X100X8	Column	No Messages	0,044581	PMM
103	TUBO100X100X8	Brace	No Messages	0,067479	PMM
104	TUBO100X100X8	Column	No Messages	0,068091	PMM
105	TUBO100X100X8	Brace	No Messages	0,073315	PMM
106	TUBO100X100X8	Column	No Messages	0,223107	PMM
107	TUBO100X100X8	Brace	No Messages	0,057169	PMM
108	TUBO100X100X8	Column	No Messages	0,141275	PMM
109	TUBO100X100X8	Brace	No Messages	0,074209	PMM
110	TUBO100X100X8	Column	No Messages	0,131839	PMM
111	TUBO100X100X8	Brace	No Messages	0,090599	PMM
112	TUBO100X100X8	Column	No Messages	0,149333	PMM
113	TUBO100X100X8	Brace	No Messages	0,119603	PMM
114	TUBO100X100X8	Column	No Messages	0,19055	PMM
115	HE140B	Beam	No Messages	0,142936	PMM
116	HE140B	Beam	No Messages	0,194903	PMM
117	HE140B	Beam	No Messages	0,17753	PMM
118	HE140B	Beam	No Messages	0,141357	PMM
119	HE140B	Beam	No Messages	0,140427	PMM
120	HE140B	Beam	No Messages	0,001298	PMM
121	HE140B	Beam	No Messages	0,003207	PMM
122	HE140B	Beam	No Messages	0,001126	Major Shear
123	HE140B	Beam	No Messages	0,003208	PMM
124	HE140B	Beam	No Messages	0,001302	PMM
125	HE140B	Beam	No Messages	0,140473	PMM
126	HE140B	Beam	No Messages	0,141745	PMM
127	HE140B	Beam	No Messages	0,17771	PMM
128	HE140B	Beam	No Messages	0,194946	PMM
129	HE140B	Beam	No Messages	0,142979	PMM
130	HE140B	Beam	No Messages	0,062729	PMM
131	HE140B	Beam	No Messages	0,063104	PMM
133	HE140B	Beam	No Messages	0,06226	PMM
134	HE140B	Beam	No Messages	0,068336	PMM
135	TUBO100X100X8	Column	No Messages	0,255136	PMM
136	TUBO100X100X8	Column	No Messages	0,576736	PMM
137	TUBO100X100X8	Column	No Messages	0,241586	PMM
138	TUBO100X100X8	Column	No Messages	0,53872	PMM
141	TUBO100X100X8	Column	No Messages	0,240257	PMM
142	TUBO100X100X8	Column	No Messages	0,534227	PMM
143	TUBO100X100X8	Column	No Messages	0,252866	PMM
144	TUBO100X100X8	Column	No Messages	0,576467	PMM
145	HE140B	Beam	No Messages	0,031412	PMM
146	HE140B	Beam	No Messages	0,031043	PMM
147	HE140B	Beam	No Messages	0,025609	PMM
148	HE140B	Beam	No Messages	0,034342	PMM
149	HE140B	Beam	No Messages	0,101762	PMM
150	HE140B	Beam	No Messages	0,055829	PMM
151	HE140B	Beam	No Messages	0,03749	PMM
154	HE140B	Beam	No Messages	0,038918	PMM
155	HE140B	Beam	No Messages	0,057908	PMM
156	HE140B	Beam	No Messages	0,101511	PMM
157	HE140B	Beam	No Messages	0,206681	PMM
158	HE140B	Beam	No Messages	0,104431	PMM
159	HE140B	Beam	No Messages	0,08109	PMM
162	HE140B	Beam	No Messages	0,081557	PMM

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
163	HE140B	Beam	No Messages	0,104456	PMM
164	HE140B	Beam	No Messages	0,207579	PMM
139	HE140B	Beam	No Messages	0,084752	PMM
153	HE140B	Beam	No Messages	0,082898	PMM
160	HE140B	Beam	No Messages	0,04342	PMM
168	HE140B	Beam	No Messages	0,038871	PMM
169	HE140B	Beam	No Messages	0,023113	PMM
170	HE140B	Beam	No Messages	0,021013	PMM
171	UPN80	Column	No Messages	0,362021	PMM
172	UPN80	Column	No Messages	0,349618	PMM
173	UPN80	Column	No Messages	0,366556	PMM
174	UPN80	Column	No Messages	0,363228	PMM
175	HE140B	Beam	No Messages	0,085462	PMM
176	HE140B	Beam	No Messages	0,028222	PMM

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 2 of 2

Table: Steel Design 1 - Summary Data - Eurocode 3-2005,
Part 2 of 2

Frame	Combo	Location m
1	ELU-106	0,
2	ELU-50	0,8
3	ELU-52	0,8
4	ELU-50	0,
5	ELU-254	0,
6	ELU-254	0,
7	ELU-14	0,
8	ELU-14	0,
9	ELU-254	0,
10	ELU-254	0,
11	ELU-2	0,8
12	ELU-4	0,
13	ELU-2	0,4
14	ELU-58	1,2
15	ELU-1	0,
16	ELU-3	0,8
17	ELU-3	0,4
18	ELU-3	0,
19	ELU-3	0,4
20	ELU-3	0,
21	ELU-3	0,
22	ELU-3	0,
23	ELU-3	0,
24	ELU-51	0,
25	ELU-51	0,
26	ELU-51	0,
27	ELU-51	0,
28	ELU-49	0,8
29	ELU-10	0,
30	ELU-4	0,
31	ELU-3	1,1072
32	ELU-3	1,63276
33	ELU-7	1,1072

Table: Steel Design 1 - Summary Data - Eurocode 3-2005,
Part 2 of 2

Frame	Combo	Location m
34	ELU-8	1,63276
35	ELU-11	1,1072
36	ELU-50	0,
37	ELU-1	1,1072
38	ELU-51	0,
39	ELU-7	1,1072
40	ELU-7	1,63276
41	ELU-1	1,1072
42	ELU-1	1,63276
43	ELU-1	1,1072
44	ELU-12	0,
45	ELU-11	1,1072
46	ELU-11	1,63276
47	ELU-15	1,1072
48	ELU-16	1,63276
49	ELU-11	1,1072
50	ELU-2	0,
51	ELU-9	1,1072
52	ELU-3	0,
53	ELU-7	1,1072
54	ELU-7	1,63276
55	ELU-1	1,1072
56	ELU-1	1,63276
57	ELU-1	1,1072
58	ELU-52	0,4
59	ELU-50	0,8
60	ELU-52	0,8
61	ELU-54	0,
62	ELU-54	0,
63	ELU-54	0,
64	ELU-54	0,
65	ELU-54	0,
66	ELU-54	0,
67	ELU-54	0,
68	ELU-54	0,
69	ELU-4	0,
70	ELU-10	0,4
71	ELU-4	0,8
72	ELU-9	0,
73	ELU-11	0,
74	ELU-11	0,
75	ELU-11	0,
76	ELU-11	0,8
77	ELU-3	0,4
78	ELU-11	0,
79	ELU-11	0,
80	ELU-11	0,
81	ELU-11	0,
82	ELU-11	0,4
83	ELU-11	0,8
84	ELU-11	0,8
85	ELU-9	0,8
86	ELU-51	0,
87	ELU-4	0,

**Table: Steel Design 1 - Summary Data - Eurocode 3-2005,
Part 2 of 2**

Frame	Combo	Location m
88	ELU-67	1,1072
89	ELU-2	1,63276
90	ELU-13	1,1072
91	ELU-2	0,
92	ELU-65	1,1072
93	ELU-15	1,63276
94	ELU-12	1,1072
95	ELU-13	1,63276
96	ELU-13	1,1072
97	ELU-15	1,63276
98	ELU-10	1,1072
99	ELU-9	1,63276
100	ELU-9	1,1072
101	ELU-12	0,
102	ELU-59	1,1072
103	ELU-50	1,63276
104	ELU-53	1,1072
105	ELU-10	0,
106	ELU-65	1,1072
107	ELU-55	1,63276
108	ELU-4	1,1072
109	ELU-13	1,63276
110	ELU-13	1,1072
111	ELU-15	1,63276
112	ELU-10	1,1072
113	ELU-9	1,63276
114	ELU-9	1,1072
115	ELU-109	1,05
116	ELU-52	0,
117	ELU-49	0,
118	ELU-49	1,05
119	ELU-106	0,7
120	ELU-50	0,
121	ELU-107	0,
122	ELU-1	1,05
123	ELU-59	0,
124	ELU-2	0,
125	ELU-58	0,7
126	ELU-1	1,05
127	ELU-1	0,
128	ELU-4	0,
129	ELU-61	1,05
130	ELU-108	0,
131	ELU-108	0,
133	ELU-108	1,05
134	ELU-59	0,
135	ELU-54	0,674
136	ELU-54	0,674
137	ELU-56	0,
138	ELU-56	0,
141	ELU-8	0,
142	ELU-16	0,
143	ELU-6	0,674
144	ELU-14	0,674

**Table: Steel Design 1 - Summary Data - Eurocode 3-2005,
Part 2 of 2**

Frame	Combo	Location m
145	ELU-106	0,
146	ELU-110	1,05
147	ELU-62	1,05
148	ELU-58	0,
149	ELU-50	0,
150	ELU-50	0,35333
151	ELU-52	0,5
154	ELU-4	0,
155	ELU-2	0,77
156	ELU-2	1,44
157	ELU-50	0,
158	ELU-50	0,35333
159	ELU-54	0,
162	ELU-6	0,
163	ELU-2	0,77
164	ELU-2	1,44
139	ELU-52	0,77
153	ELU-6	0,
160	ELU-52	0,77
168	ELU-4	0,
169	ELU-12	0,
170	ELU-4	0,
171	ELU-52	0,674
172	ELU-12	0,674
173	ELU-12	0,674
174	ELU-4	0,674
175	ELU-6	0,
176	ELU-254	0,

APÉNDICE Nº 3: LISTADO DE CÁLCULO DE LA PASARELA SOBRE EL CANAL DE DESCARGA

Table: Material Properties 01 - General

Table: Material Properties 01 - General			
Material	Type	SymType	TempDepen d
C25/30	Concrete	Isotropic	No
S275	Steel	Isotropic	No

Table: Material Properties 03a - Steel Data, Part 1 of 2

Table: Material Properties 03a - Steel Data, Part 1 of 2								
Material	Fy KN/m2	Fu KN/m2	EffFy KN/m2	EffFu KN/m2	SSCurveOpt	SSHysType	SHard	SMax
S275	275000,	430000,	302500,	473000,	Simple	Kinematic	0,015	0,11

Table: Material Properties 03a - Steel Data, Part 2 of 2

Table: Material Properties 03a - Steel Data, Part 2 of 2		
Material	SRup	FinalSlope
S275	0,17	-0,1

Table: Frame Section Properties 01 - General, Part 1 of 7

Table: Frame Section Properties 01 - General, Part 1 of 7						
SectionName	Material	Shape	t3	t2	tf	tw
			m	m	m	m
HE100B	S275	I/Wide Flange	0,1	0,1	0,01	0,006
HE140B	S275	I/Wide Flange	0,14	0,14	0,012	0,007
TUBO100X100X8	S275	Box/Tube	0,1	0,1	0,008	0,008
UPN80	S275	Channel	0.08	0.045	0.008	0.006

Table: Frame Section Properties 01 - General, Part 2 of 7

Table: Frame Section Properties 01 - General, Part 2 of 7							
SectionName	t2b m	tfb m	Area m2	TorsConst m4	I33 m4	I22 m4	I23 m4
HE100B	0,1	0,01	0,0026	9,330E-08	4,500E-06	1,670E-06	0,
HE140B	0,14	0,012	0,0043	2,020E-07	0,000015	5,500E-06	0,
TUBO100X100X8			0,002944	6,230E-06	4,184E-06	4,184E-06	0,
UPN80			0,001102	1,997E-08	1,058E-06	1,940E-07	0,

Table: Frame Section Properties 01 - General, Part 3 of 7

Table: Frame Section Properties 01 - General, Part 3 of 7							
SectionName	AS2 m2	AS3 m2	S33 m3	S22 m3	Z33 m3	Z22 m3	R33 m
HE100B	0,0006	0,001667	0,00009	0,000033	0,000104	0,000051	0,041603
HE140B	0,00098	0,0028	0,000216	0,000079	0,000245	0,00012	0,059239
TUBO100X100X8	0,0016	0,0016	0,000084	0,000084	0,000102	0,000102	0,037699
UPN80	0,00048	0,0006	0,000026	6,348E-06	0,000033	0,000013	0,030985

Table: Frame Section Properties 01 - General, Part 4 of 7

Table: Frame Section Properties 01 - General, Part 4 of 7							
SectionName	R22	EccV2	ConcCol	ConcBeam	Color	TotalWt	TotalMass
	m	m				KN	KN-s2/m
HE100B	0,025344		No	No	Red	1,079	0,11
HE140B	0,035764		No	No	Green	28,266	2,88
TUBO100X100X8	0,037699		No	No	Cyan	13,366	1,36
UPN80	0,013268	0,07159	No	No	Yellow	0,229	2,332E-02

Table: Frame Section Properties 01 - General, Part 5 of 7

Table: Frame Section Properties 01 - General, Part 5 of 7							
SectionName	FromFile	AMod	A2Mod	A3Mod	JMod	I2Mod	I3Mod
HE100B	Yes	1,	1,	1,	1,	1,	1,
HE140B	Yes	1,	1,	1,	1,	1,	1,
TUBO100X100X8	Yes	1,	1,	1,	1,	1,	1,
UPN80	Yes	1,	1,	1,	1,	1,	1,

Table: Frame Section Properties 01 - General, Part 6 of 7

Table: Frame Section Properties 01 - General, Part 6 of 7				
SectionName	MMod	WMod	SeclnFile	FileName
HE100B	1,	1,	HE100B	c:\program files\computers and structures\sap2000 18\euro.pro
HE140B	1,	1,	HE140B	c:\program files\computers and structures\sap2000 18\euro.pro
TUBO100X100X8	1,	1,	TUBO100X100X8	c:\program files\computers and structures\sap2000 19\euro.pro
UPN80	1,	1,	UPN80	c:\program files\computers and structures\sap2000 18\euro.pro

Table: Frame Section Properties 01 - General, Part 7 of 7

Table: Frame Section Properties 01 - General, Part 7 of 7		
SectionName	GUID	Notes
HE100B		Imported 05/11/2018 16:54:25 from Euro.pro
HE140B		Imported 05/11/2018 16:54:15 from Euro.pro
TUBO100X100X8		Imported 15/11/2018 17:12:41 from Euro.pro
UPN80		Imported 05/11/2018 16:54:33 from Euro.pro

Table: Link Property Definitions 02 - Linear

Table: Link Property Definitions 02 - Linear					
Link	DOF	Fixed	TransKE	TransCE	DJ
			KN/m	KN-s/m	m
APOYO	U1	Yes			
APOYO	U2	No	750,	0,	0,

Table: Link Property Definitions 02 - Linear

Link	DOF	Fixed	TransKE KN/m	TransCE KN-s/m	DJ m
APOYO	U3	No	750,	0,	0,
RIGID	U1	Yes			
RIGID	U2	Yes			
RIGID	U3	Yes			
RIGID	R1	Yes			
RIGID	R2	Yes			
RIGID	R3	Yes			

Table: Link Property Definitions 01 - General, Part 1 of 3

Table: Link Property Definitions 01 - General, Part 1 of 3

Link	LinkType	Mass KN-s2/m	Weight KN	RotInert1 KN-m-s2	RotInert2 KN-m-s2	RotInert3 KN-m-s2	DefLength m
APOYO	Linear	0,	0,	0,	0,	0,	1,
RIGID	Linear	0,	0,	0,	0,	0,	1,

Table: Link Property Definitions 01 - General, Part 2 of 3

Table: Link Property Definitions 01 - General, Part 2 of 3

Link	DefArea m2	PDM2I	PDM2J	PDM3I	PDM3J	Color
APOYO	1,	0,	0,	0,	0,	Cyan
RIGID	1,	0,	0,	0,	0,	Green

Table: Link Property Definitions 01 - General, Part 3 of 3

Table: Link Property Definitions 01 - General, Part 3 of 3

Link	GUID	Notes
APOYO		Added 07/11/2018 16:44:24
RIGID		Added 07/11/2018 16:42:43

Table: Joint Pattern Definitions

Table: Joint
Pattern Definitions

Pattern
GRA-HEAT
GRA-COOL

Table: Load Pattern Definitions

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
PP	Dead	1,	
CM-TUBERIA	Dead	0,	
CM- TRAMEX+REJILLA	Dead	0,	
SCU	Live	0,	

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
VTSSC	Live	0,	
VTCSC	Live	0,	
VV	Live	0,	
VLSSC	Live	0,	
VLCSC	Live	0,	
TU-DIL	Live	0,	
TU-CON	Live	0,	
GRA-HEAT	Live	0,	
GRA-COOL	Live	0,	

Table: Load Case Definitions

Table: Load Case Definitions

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	DesTypeOpt	DesignType
PP	LinStatic	Zero				Prog Det	Dead
CM-TUBERIA	LinStatic	Zero				Prog Det	Dead
CM-TRAMEX+R EJILLA	LinStatic	Zero				Prog Det	Dead
SCU	LinStatic	Zero				Prog Det	Live
VTSSC	LinStatic	Zero				Prog Det	Live
VTCSC	LinStatic	Zero				Prog Det	Live
VV	LinStatic	Zero				Prog Det	Live
VLSSC	LinStatic	Zero				Prog Det	Live
VLCSC	LinStatic	Zero				Prog Det	Live
TU-DIL	LinStatic	Zero				Prog Det	Live
TU-CON	LinStatic	Zero				Prog Det	Live
GRA-HEAT	LinStatic	Zero				Prog Det	Live
GRA-COOL	LinStatic	Zero				Prog Det	Live
MODAL	LinModal	Zero				Prog Det	Dead

Table: Joint Pattern Assignments

Table: Joint Pattern Assignments

Joint	Pattern	Value
1	GRA-HEAT	4,768
1	GRA-COOL	7,272
2	GRA-HEAT	4,768
2	GRA-COOL	7,272
3	GRA-HEAT	4,768
3	GRA-COOL	7,272
4	GRA-HEAT	4,768
4	GRA-COOL	7,272
5	GRA-HEAT	4,768
5	GRA-COOL	7,272
6	GRA-HEAT	4,768
6	GRA-COOL	7,272
7	GRA-HEAT	4,768
7	GRA-COOL	7,272
8	GRA-HEAT	4,768
8	GRA-COOL	7,272

Table: Joint Pattern Assignments

Joint	Pattern	Value
9	GRA-HEAT	4,768
9	GRA-COOL	7,272
10	GRA-HEAT	4,768
10	GRA-COOL	7,272
11	GRA-HEAT	4,768
11	GRA-COOL	7,272
16	GRA-HEAT	12,601108
16	GRA-COOL	-0,001197
17	GRA-HEAT	12,601108
17	GRA-COOL	-0,001197
18	GRA-HEAT	12,601108
18	GRA-COOL	-0,001197
19	GRA-HEAT	12,601108
19	GRA-COOL	-0,001197
20	GRA-HEAT	12,601108
20	GRA-COOL	-0,001197
21	GRA-HEAT	12,601108
21	GRA-COOL	-0,001197
22	GRA-HEAT	12,601108
22	GRA-COOL	-0,001197
23	GRA-HEAT	12,601108
23	GRA-COOL	-0,001197
24	GRA-HEAT	12,601108
24	GRA-COOL	-0,001197
25	GRA-HEAT	12,601108
25	GRA-COOL	-0,001197
26	GRA-HEAT	12,601108
26	GRA-COOL	-0,001197
31	GRA-HEAT	4,768
31	GRA-COOL	7,272
32	GRA-HEAT	4,768
32	GRA-COOL	7,272
33	GRA-HEAT	4,768
33	GRA-COOL	7,272
34	GRA-HEAT	4,768
34	GRA-COOL	7,272
35	GRA-HEAT	4,768
35	GRA-COOL	7,272
36	GRA-HEAT	4,768
36	GRA-COOL	7,272
37	GRA-HEAT	4,768
37	GRA-COOL	7,272
38	GRA-HEAT	4,768
38	GRA-COOL	7,272
39	GRA-HEAT	4,768
39	GRA-COOL	7,272
40	GRA-HEAT	4,768
40	GRA-COOL	7,272
41	GRA-HEAT	4,768
41	GRA-COOL	7,272
46	GRA-HEAT	12,601108
46	GRA-COOL	-0,001197
47	GRA-HEAT	12,601108
47	GRA-COOL	-0,001197
48	GRA-HEAT	12,601108

Table: Joint Pattern Assignments

Joint	Pattern	Value
48	GRA-COOL	-0,001197
49	GRA-HEAT	12,601108
49	GRA-COOL	-0,001197
50	GRA-HEAT	12,601108
50	GRA-COOL	-0,001197
51	GRA-HEAT	12,601108
51	GRA-COOL	-0,001197
52	GRA-HEAT	12,601108
52	GRA-COOL	-0,001197
53	GRA-HEAT	12,601108
53	GRA-COOL	-0,001197
54	GRA-HEAT	12,601108
54	GRA-COOL	-0,001197
55	GRA-HEAT	12,601108
55	GRA-COOL	-0,001197
56	GRA-HEAT	12,601108
56	GRA-COOL	-0,001197
91	GRA-HEAT	-0,000348
91	GRA-COOL	11,699506
92	GRA-HEAT	-0,000348
92	GRA-COOL	11,699506
97	GRA-HEAT	-0,000348
97	GRA-COOL	11,699506
98	GRA-HEAT	-0,000348
98	GRA-COOL	11,699506
101	GRA-HEAT	-0,000348
101	GRA-COOL	11,699506
102	GRA-HEAT	-0,000348
102	GRA-COOL	11,699506
103	GRA-HEAT	-0,000348
103	GRA-COOL	11,699506
104	GRA-HEAT	-0,000348
104	GRA-COOL	11,699506
105	GRA-HEAT	-0,000348
105	GRA-COOL	11,699506
106	GRA-HEAT	-0,000348
106	GRA-COOL	11,699506
61	GRA-HEAT	-0,000348
61	GRA-COOL	11,699506
62	GRA-HEAT	-0,000348
62	GRA-COOL	11,699506
63	GRA-HEAT	-0,000348
63	GRA-COOL	11,699506
64	GRA-HEAT	-0,000348
64	GRA-COOL	11,699506
66	GRA-HEAT	4,272771
66	GRA-COOL	7,73183
68	GRA-HEAT	4,272771
68	GRA-COOL	7,73183
70	GRA-HEAT	4,272771
70	GRA-COOL	7,73183
12	GRA-HEAT	-0,000348
12	GRA-COOL	11,699506
13	GRA-HEAT	-0,000348
13	GRA-COOL	11,699506

Table: Joint Pattern Assignments

Joint	Pattern	Value
14	GRA-HEAT	-0,000348
14	GRA-COOL	11,699506
15	GRA-HEAT	-0,000348
15	GRA-COOL	11,699506
27	GRA-HEAT	4,272771
27	GRA-COOL	7,73183
28	GRA-HEAT	4,272771
28	GRA-COOL	7,73183
29	GRA-HEAT	4,272771
29	GRA-COOL	7,73183
30	GRA-HEAT	-0,000348
30	GRA-COOL	11,699506
42	GRA-HEAT	-0,000348
42	GRA-COOL	11,699506

Table: Combination Definitions

Table: Combination Definitions

Table: Combination Definitions					
ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-1	Linear Add	No	Linear Static	PP	1,
ELS-CHK-1			Linear Static	CM-TUBERIA	1,
ELS-CHK-1			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-1			Linear Static	SCU	1,
ELS-CHK-1			Linear Static	VTSSC	0,
ELS-CHK-1			Linear Static	VTCSC	0,
ELS-CHK-1			Linear Static	VV	0,
ELS-CHK-1			Linear Static	VLSSC	0,
ELS-CHK-1			Linear Static	VLCSC	0,
ELS-CHK-1			Linear Static	TU-DIL	0,21
ELS-CHK-1			Linear Static	TU-CON	0,
ELS-CHK-1			Linear Static	GRA-HEAT	0,6
ELS-CHK-1			Linear Static	GRA-COOL	0,
ELS-CHK-2	Linear Add	No	Linear Static	PP	1,
ELS-CHK-2			Linear Static	CM-TUBERIA	1,
ELS-CHK-2			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-2			Linear Static	SCU	1,
ELS-CHK-2			Linear Static	VTSSC	0,
ELS-CHK-2			Linear Static	VTCSC	0,
ELS-CHK-2			Linear Static	VV	0,
ELS-CHK-2			Linear Static	VLSSC	0,
ELS-CHK-2			Linear Static	VLCSC	0,
ELS-CHK-2			Linear Static	TU-DIL	0,
ELS-CHK-2			Linear Static	TU-CON	0,21
ELS-CHK-2			Linear Static	GRA-HEAT	0,6
ELS-CHK-2			Linear Static	GRA-COOL	0,
ELS-CHK-3	Linear Add	No	Linear Static	PP	1,
ELS-CHK-3			Linear Static	CM-TUBERIA	1,
ELS-CHK-3			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-3			Linear Static	SCU	1,
ELS-CHK-3			Linear Static	VTSSC	0,
ELS-CHK-3			Linear Static	VTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-3	Linear Add	No	Linear Static	VV	0,
ELS-CHK-3			Linear Static	VLSSC	0,
ELS-CHK-3			Linear Static	VLSC	0,
ELS-CHK-3			Linear Static	TU-DIL	0,21
ELS-CHK-3			Linear Static	TU-CON	0,
ELS-CHK-3			Linear Static	GRA-HEAT	0,
ELS-CHK-3			Linear Static	GRA-COOL	0,6
ELS-CHK-4			Linear Static	PP	1,
ELS-CHK-4			Linear Static	CM-TUBERIA	1,
ELS-CHK-4			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-4	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-4			Linear Static	VTSSC	0,
ELS-CHK-4			Linear Static	VTSC	0,
ELS-CHK-4			Linear Static	VV	0,
ELS-CHK-4			Linear Static	VLSSC	0,
ELS-CHK-4			Linear Static	VLSC	0,
ELS-CHK-4			Linear Static	TU-DIL	0,
ELS-CHK-4			Linear Static	TU-CON	0,21
ELS-CHK-4			Linear Static	GRA-HEAT	0,
ELS-CHK-4			Linear Static	GRA-COOL	0,6
ELS-CHK-5	Linear Add	No	Linear Static	PP	1,
ELS-CHK-5			Linear Static	CM-TUBERIA	1,
ELS-CHK-5			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-5			Linear Static	SCU	1,
ELS-CHK-5			Linear Static	VTSSC	0,
ELS-CHK-5			Linear Static	VTSC	0,
ELS-CHK-5			Linear Static	VV	0,
ELS-CHK-5			Linear Static	VLSSC	0,
ELS-CHK-5			Linear Static	VLSC	0,
ELS-CHK-5			Linear Static	TU-DIL	0,6
ELS-CHK-5	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-5			Linear Static	GRA-HEAT	0,45
ELS-CHK-5			Linear Static	GRA-COOL	0,
ELS-CHK-6			Linear Static	PP	1,
ELS-CHK-6			Linear Static	CM-TUBERIA	1,
ELS-CHK-6			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-6			Linear Static	SCU	1,
ELS-CHK-6			Linear Static	VTSSC	0,
ELS-CHK-6			Linear Static	VTSC	0,
ELS-CHK-6			Linear Static	VV	0,
ELS-CHK-6	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-6			Linear Static	VLSC	0,
ELS-CHK-6			Linear Static	TU-DIL	0,
ELS-CHK-6			Linear Static	TU-CON	0,6
ELS-CHK-6			Linear Static	GRA-HEAT	0,45
ELS-CHK-6			Linear Static	GRA-COOL	0,
ELS-CHK-7			Linear Static	PP	1,
ELS-CHK-7			Linear Static	CM-TUBERIA	1,
ELS-CHK-7			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-7			Linear Static	SCU	1,
ELS-CHK-7	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-7			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-7	Linear Add	No	Linear Static	VV	0,
ELS-CHK-7			Linear Static	VLSSC	0,
ELS-CHK-7			Linear Static	VLCSC	0,
ELS-CHK-7			Linear Static	TU-DIL	0,6
ELS-CHK-7			Linear Static	TU-CON	0,
ELS-CHK-7			Linear Static	GRA-HEAT	0,
ELS-CHK-7			Linear Static	GRA-COOL	0,45
ELS-CHK-8			Linear Static	PP	1,
ELS-CHK-8			Linear Static	CM-TUBERIA	1,
ELS-CHK-8			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-8	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-8			Linear Static	VTSSC	0,
ELS-CHK-8			Linear Static	VTSCC	0,
ELS-CHK-8			Linear Static	VV	0,
ELS-CHK-8			Linear Static	VLSSC	0,
ELS-CHK-8			Linear Static	VLCSC	0,
ELS-CHK-8			Linear Static	TU-DIL	0,
ELS-CHK-8			Linear Static	TU-CON	0,6
ELS-CHK-8			Linear Static	GRA-HEAT	0,
ELS-CHK-8			Linear Static	GRA-COOL	0,45
ELS-CHK-9	Linear Add	No	Linear Static	PP	1,
ELS-CHK-9			Linear Static	CM-TUBERIA	1,
ELS-CHK-9			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-9			Linear Static	SCU	1,
ELS-CHK-9			Linear Static	VTSSC	0,
ELS-CHK-9			Linear Static	VTSCC	0,3
ELS-CHK-9			Linear Static	VV	0,
ELS-CHK-9			Linear Static	VLSSC	0,
ELS-CHK-9			Linear Static	VLCSC	0,
ELS-CHK-9			Linear Static	TU-DIL	0,21
ELS-CHK-9	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-9			Linear Static	GRA-HEAT	0,6
ELS-CHK-9			Linear Static	GRA-COOL	0,
ELS-CHK-10			Linear Static	PP	1,
ELS-CHK-10			Linear Static	CM-TUBERIA	1,
ELS-CHK-10			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-10			Linear Static	SCU	1,
ELS-CHK-10			Linear Static	VTSSC	0,
ELS-CHK-10			Linear Static	VTSCC	0,3
ELS-CHK-10			Linear Static	VV	0,
ELS-CHK-10	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-10			Linear Static	VLCSC	0,
ELS-CHK-10			Linear Static	TU-DIL	0,
ELS-CHK-10			Linear Static	TU-CON	0,21
ELS-CHK-10			Linear Static	GRA-HEAT	0,6
ELS-CHK-10			Linear Static	GRA-COOL	0,
ELS-CHK-11			Linear Static	PP	1,
ELS-CHK-11			Linear Static	CM-TUBERIA	1,
ELS-CHK-11			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-11			Linear Static	SCU	1,
ELS-CHK-11	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-11			Linear Static	VTSCC	0,3

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-11	Linear Add	No	Linear Static	VV	0,
ELS-CHK-11			Linear Static	VLSSC	0,
ELS-CHK-11			Linear Static	VLSCC	0,
ELS-CHK-11			Linear Static	TU-DIL	0,21
ELS-CHK-11			Linear Static	TU-CON	0,
ELS-CHK-11			Linear Static	GRA-HEAT	0,
ELS-CHK-11			Linear Static	GRA-COOL	0,6
ELS-CHK-12			Linear Static	PP	1,
ELS-CHK-12			Linear Static	CM-TUBERIA	1,
ELS-CHK-12			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-12	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-12			Linear Static	VTSSC	0,
ELS-CHK-12			Linear Static	VTSCC	0,3
ELS-CHK-12			Linear Static	VV	0,
ELS-CHK-12			Linear Static	VLSSC	0,
ELS-CHK-12			Linear Static	VLSCC	0,
ELS-CHK-12			Linear Static	TU-DIL	0,
ELS-CHK-12			Linear Static	TU-CON	0,21
ELS-CHK-12			Linear Static	GRA-HEAT	0,
ELS-CHK-12			Linear Static	GRA-COOL	0,6
ELS-CHK-13	Linear Add	No	Linear Static	PP	1,
ELS-CHK-13			Linear Static	CM-TUBERIA	1,
ELS-CHK-13			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-13			Linear Static	SCU	1,
ELS-CHK-13			Linear Static	VTSSC	0,
ELS-CHK-13			Linear Static	VTSCC	0,3
ELS-CHK-13			Linear Static	VV	0,
ELS-CHK-13			Linear Static	VLSSC	0,
ELS-CHK-13			Linear Static	VLSCC	0,
ELS-CHK-13			Linear Static	TU-DIL	0,6
ELS-CHK-13	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-13			Linear Static	GRA-HEAT	0,45
ELS-CHK-13			Linear Static	GRA-COOL	0,
ELS-CHK-14			Linear Static	PP	1,
ELS-CHK-14			Linear Static	CM-TUBERIA	1,
ELS-CHK-14			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-14			Linear Static	SCU	1,
ELS-CHK-14			Linear Static	VTSSC	0,
ELS-CHK-14			Linear Static	VTSCC	0,3
ELS-CHK-14			Linear Static	VV	0,
ELS-CHK-14	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-14			Linear Static	VLSCC	0,
ELS-CHK-14			Linear Static	TU-DIL	0,
ELS-CHK-14			Linear Static	TU-CON	0,6
ELS-CHK-14			Linear Static	GRA-HEAT	0,45
ELS-CHK-14			Linear Static	GRA-COOL	0,
ELS-CHK-15			Linear Static	PP	1,
ELS-CHK-15			Linear Static	CM-TUBERIA	1,
ELS-CHK-15			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-15			Linear Static	SCU	1,
ELS-CHK-15	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-15			Linear Static	VTSCC	0,3

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-15	Linear Add	No	Linear Static	VV	0,
ELS-CHK-15			Linear Static	VLSSC	0,
ELS-CHK-15			Linear Static	VLCSC	0,
ELS-CHK-15			Linear Static	TU-DIL	0,6
ELS-CHK-15			Linear Static	TU-CON	0,
ELS-CHK-15			Linear Static	GRA-HEAT	0,
ELS-CHK-15			Linear Static	GRA-COOL	0,45
ELS-CHK-16			Linear Static	PP	1,
ELS-CHK-16			Linear Static	CM-TUBERIA	1,
ELS-CHK-16	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-16			Linear Static	SCU	1,
ELS-CHK-16			Linear Static	VTSSC	0,
ELS-CHK-16			Linear Static	VTSCC	0,3
ELS-CHK-16			Linear Static	VV	0,
ELS-CHK-16			Linear Static	VLSSC	0,
ELS-CHK-16			Linear Static	VLCSC	0,
ELS-CHK-16			Linear Static	TU-DIL	0,
ELS-CHK-16			Linear Static	TU-CON	0,6
ELS-CHK-16	Linear Add	No	Linear Static	GRA-HEAT	0,
ELS-CHK-16			Linear Static	GRA-COOL	0,45
ELS-CHK-17			Linear Static	PP	1,
ELS-CHK-17			Linear Static	CM-TUBERIA	1,
ELS-CHK-17			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-17			Linear Static	SCU	1,
ELS-CHK-17			Linear Static	VTSSC	0,
ELS-CHK-17			Linear Static	VTSCC	0,3
ELS-CHK-17			Linear Static	VV	0,3
ELS-CHK-17	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-17			Linear Static	VLCSC	0,
ELS-CHK-17			Linear Static	TU-DIL	0,21
ELS-CHK-17			Linear Static	TU-CON	0,
ELS-CHK-17			Linear Static	GRA-HEAT	0,6
ELS-CHK-17			Linear Static	GRA-COOL	0,
ELS-CHK-18			Linear Static	PP	1,
ELS-CHK-18			Linear Static	CM-TUBERIA	1,
ELS-CHK-18			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-18	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-18			Linear Static	VTSSC	0,
ELS-CHK-18			Linear Static	VTSCC	0,3
ELS-CHK-18			Linear Static	VV	0,3
ELS-CHK-18			Linear Static	VLSSC	0,
ELS-CHK-18			Linear Static	VLCSC	0,
ELS-CHK-18			Linear Static	TU-DIL	0,
ELS-CHK-18			Linear Static	TU-CON	0,21
ELS-CHK-18			Linear Static	GRA-HEAT	0,6
ELS-CHK-18	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-19			Linear Static	PP	1,
ELS-CHK-19			Linear Static	CM-TUBERIA	1,
ELS-CHK-19			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-19			Linear Static	SCU	1,
ELS-CHK-19			Linear Static	VTSSC	0,
ELS-CHK-19			Linear Static	VTSCC	0,3

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-19	Linear Add	No	Linear Static	VV	0,3
ELS-CHK-19			Linear Static	VLSSC	0,
ELS-CHK-19			Linear Static	VLSCC	0,
ELS-CHK-19			Linear Static	TU-DIL	0,21
ELS-CHK-19			Linear Static	TU-CON	0,
ELS-CHK-19			Linear Static	GRA-HEAT	0,
ELS-CHK-19			Linear Static	GRA-COOL	0,6
ELS-CHK-20			Linear Static	PP	1,
ELS-CHK-20			Linear Static	CM-TUBERIA	1,
ELS-CHK-20			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-20	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-20			Linear Static	VTSSC	0,
ELS-CHK-20			Linear Static	VTSCC	0,3
ELS-CHK-20			Linear Static	VV	0,3
ELS-CHK-20			Linear Static	VLSSC	0,
ELS-CHK-20			Linear Static	VLSCC	0,
ELS-CHK-20			Linear Static	TU-DIL	0,
ELS-CHK-20			Linear Static	TU-CON	0,21
ELS-CHK-20			Linear Static	GRA-HEAT	0,
ELS-CHK-20			Linear Static	GRA-COOL	0,6
ELS-CHK-21	Linear Add	No	Linear Static	PP	1,
ELS-CHK-21			Linear Static	CM-TUBERIA	1,
ELS-CHK-21			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-21			Linear Static	SCU	1,
ELS-CHK-21			Linear Static	VTSSC	0,
ELS-CHK-21			Linear Static	VTSCC	0,3
ELS-CHK-21			Linear Static	VV	0,3
ELS-CHK-21			Linear Static	VLSSC	0,
ELS-CHK-21			Linear Static	VLSCC	0,
ELS-CHK-21			Linear Static	TU-DIL	0,6
ELS-CHK-21	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-21			Linear Static	GRA-HEAT	0,45
ELS-CHK-21			Linear Static	GRA-COOL	0,
ELS-CHK-22			Linear Static	PP	1,
ELS-CHK-22			Linear Static	CM-TUBERIA	1,
ELS-CHK-22			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-22			Linear Static	SCU	1,
ELS-CHK-22			Linear Static	VTSSC	0,
ELS-CHK-22			Linear Static	VTSCC	0,3
ELS-CHK-22			Linear Static	VV	0,3
ELS-CHK-22	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-22			Linear Static	VLSCC	0,
ELS-CHK-22			Linear Static	TU-DIL	0,
ELS-CHK-22			Linear Static	TU-CON	0,6
ELS-CHK-22			Linear Static	GRA-HEAT	0,45
ELS-CHK-22			Linear Static	GRA-COOL	0,
ELS-CHK-23			Linear Static	PP	1,
ELS-CHK-23			Linear Static	CM-TUBERIA	1,
ELS-CHK-23			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-23			Linear Static	SCU	1,
ELS-CHK-23	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-23			Linear Static	VTSCC	0,3

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-23	Linear Add	No	Linear Static	VV	0,3
ELS-CHK-23			Linear Static	VLSSC	0,
ELS-CHK-23			Linear Static	VLCSC	0,
ELS-CHK-23			Linear Static	TU-DIL	0,6
ELS-CHK-23			Linear Static	TU-CON	0,
ELS-CHK-23			Linear Static	GRA-HEAT	0,
ELS-CHK-23			Linear Static	GRA-COOL	0,45
ELS-CHK-24			Linear Static	PP	1,
ELS-CHK-24			Linear Static	CM-TUBERIA	1,
ELS-CHK-24	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-24			Linear Static	SCU	1,
ELS-CHK-24			Linear Static	VTSSC	0,
ELS-CHK-24			Linear Static	VTSCC	0,3
ELS-CHK-24			Linear Static	VV	0,3
ELS-CHK-24			Linear Static	VLSSC	0,
ELS-CHK-24			Linear Static	VLCSC	0,
ELS-CHK-24			Linear Static	TU-DIL	0,
ELS-CHK-24			Linear Static	TU-CON	0,6
ELS-CHK-24	Linear Add	No	Linear Static	GRA-HEAT	0,
ELS-CHK-24			Linear Static	GRA-COOL	0,45
ELS-CHK-25			Linear Static	PP	1,
ELS-CHK-25			Linear Static	CM-TUBERIA	1,
ELS-CHK-25			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-25			Linear Static	SCU	0,
ELS-CHK-25			Linear Static	VTSSC	0,3
ELS-CHK-25			Linear Static	VTSCC	0,
ELS-CHK-25			Linear Static	VV	0,
ELS-CHK-25	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-25			Linear Static	VLCSC	0,
ELS-CHK-25			Linear Static	TU-DIL	0,21
ELS-CHK-25			Linear Static	TU-CON	0,
ELS-CHK-25			Linear Static	GRA-HEAT	0,6
ELS-CHK-25			Linear Static	GRA-COOL	0,
ELS-CHK-26			Linear Static	PP	1,
ELS-CHK-26			Linear Static	CM-TUBERIA	1,
ELS-CHK-26			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-26	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-26			Linear Static	VTSSC	0,3
ELS-CHK-26			Linear Static	VTSCC	0,
ELS-CHK-26			Linear Static	VV	0,
ELS-CHK-26			Linear Static	VLSSC	0,
ELS-CHK-26			Linear Static	VLCSC	0,
ELS-CHK-26			Linear Static	TU-DIL	0,
ELS-CHK-26			Linear Static	TU-CON	0,21
ELS-CHK-26			Linear Static	GRA-HEAT	0,6
ELS-CHK-26	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-27			Linear Static	PP	1,
ELS-CHK-27			Linear Static	CM-TUBERIA	1,
ELS-CHK-27			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-27			Linear Static	SCU	0,
ELS-CHK-27			Linear Static	VTSSC	0,3
ELS-CHK-27			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-27	Linear Add	No	Linear Static	VV	0,
ELS-CHK-27			Linear Static	VLSSC	0,
ELS-CHK-27			Linear Static	VLSCC	0,
ELS-CHK-27			Linear Static	TU-DIL	0,21
ELS-CHK-27			Linear Static	TU-CON	0,
ELS-CHK-27			Linear Static	GRA-HEAT	0,
ELS-CHK-27			Linear Static	GRA-COOL	0,6
ELS-CHK-28			Linear Static	PP	1,
ELS-CHK-28			Linear Static	CM-TUBERIA	1,
ELS-CHK-28			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-28	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-28			Linear Static	VTSSC	0,3
ELS-CHK-28			Linear Static	VTSCC	0,
ELS-CHK-28			Linear Static	VV	0,
ELS-CHK-28			Linear Static	VLSSC	0,
ELS-CHK-28			Linear Static	VLSCC	0,
ELS-CHK-28			Linear Static	TU-DIL	0,
ELS-CHK-28			Linear Static	TU-CON	0,21
ELS-CHK-28			Linear Static	GRA-HEAT	0,
ELS-CHK-28			Linear Static	GRA-COOL	0,6
ELS-CHK-29	Linear Add	No	Linear Static	PP	1,
ELS-CHK-29			Linear Static	CM-TUBERIA	1,
ELS-CHK-29			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-29			Linear Static	SCU	0,
ELS-CHK-29			Linear Static	VTSSC	0,3
ELS-CHK-29			Linear Static	VTSCC	0,
ELS-CHK-29			Linear Static	VV	0,
ELS-CHK-29			Linear Static	VLSSC	0,
ELS-CHK-29			Linear Static	VLSCC	0,
ELS-CHK-29			Linear Static	TU-DIL	0,6
ELS-CHK-29	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-29			Linear Static	GRA-HEAT	0,45
ELS-CHK-29			Linear Static	GRA-COOL	0,
ELS-CHK-30			Linear Static	PP	1,
ELS-CHK-30			Linear Static	CM-TUBERIA	1,
ELS-CHK-30			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-30			Linear Static	SCU	0,
ELS-CHK-30			Linear Static	VTSSC	0,3
ELS-CHK-30			Linear Static	VTSCC	0,
ELS-CHK-30			Linear Static	VV	0,
ELS-CHK-30	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-30			Linear Static	VLSCC	0,
ELS-CHK-30			Linear Static	TU-DIL	0,
ELS-CHK-30			Linear Static	TU-CON	0,6
ELS-CHK-30			Linear Static	GRA-HEAT	0,45
ELS-CHK-30			Linear Static	GRA-COOL	0,
ELS-CHK-31			Linear Static	PP	1,
ELS-CHK-31			Linear Static	CM-TUBERIA	1,
ELS-CHK-31			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-31			Linear Static	SCU	0,
ELS-CHK-31	Linear Add	No	Linear Static	VTSSC	0,3
ELS-CHK-31			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-31	Linear Add	No	Linear Static	VV	0,
ELS-CHK-31			Linear Static	VLSSC	0,
ELS-CHK-31			Linear Static	VLCSC	0,
ELS-CHK-31			Linear Static	TU-DIL	0,6
ELS-CHK-31			Linear Static	TU-CON	0,
ELS-CHK-31			Linear Static	GRA-HEAT	0,
ELS-CHK-31			Linear Static	GRA-COOL	0,45
ELS-CHK-32			Linear Static	PP	1,
ELS-CHK-32			Linear Static	CM-TUBERIA	1,
ELS-CHK-32			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-32	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-32			Linear Static	VTSSC	0,3
ELS-CHK-32			Linear Static	VTSCC	0,
ELS-CHK-32			Linear Static	VV	0,
ELS-CHK-32			Linear Static	VLSSC	0,
ELS-CHK-32			Linear Static	VLCSC	0,
ELS-CHK-32			Linear Static	TU-DIL	0,
ELS-CHK-32			Linear Static	TU-CON	0,6
ELS-CHK-32			Linear Static	GRA-HEAT	0,
ELS-CHK-32			Linear Static	GRA-COOL	0,45
ELS-CHK-33	Linear Add	No	Linear Static	PP	1,
ELS-CHK-33			Linear Static	CM-TUBERIA	1,
ELS-CHK-33			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-33			Linear Static	SCU	0,
ELS-CHK-33			Linear Static	VTSSC	0,3
ELS-CHK-33			Linear Static	VTSCC	0,
ELS-CHK-33			Linear Static	VV	0,3
ELS-CHK-33			Linear Static	VLSSC	0,
ELS-CHK-33			Linear Static	VLCSC	0,
ELS-CHK-33			Linear Static	TU-DIL	0,21
ELS-CHK-33	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-33			Linear Static	GRA-HEAT	0,6
ELS-CHK-33			Linear Static	GRA-COOL	0,
ELS-CHK-34			Linear Static	PP	1,
ELS-CHK-34			Linear Static	CM-TUBERIA	1,
ELS-CHK-34			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-34			Linear Static	SCU	0,
ELS-CHK-34			Linear Static	VTSSC	0,3
ELS-CHK-34			Linear Static	VTSCC	0,
ELS-CHK-34			Linear Static	VV	0,3
ELS-CHK-34	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-34			Linear Static	VLCSC	0,
ELS-CHK-34			Linear Static	TU-DIL	0,
ELS-CHK-34			Linear Static	TU-CON	0,21
ELS-CHK-34			Linear Static	GRA-HEAT	0,6
ELS-CHK-34			Linear Static	GRA-COOL	0,
ELS-CHK-35			Linear Static	PP	1,
ELS-CHK-35			Linear Static	CM-TUBERIA	1,
ELS-CHK-35			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-35			Linear Static	SCU	0,
ELS-CHK-35	Linear Add	No	Linear Static	VTSSC	0,3
ELS-CHK-35			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-35	Linear Add	No	Linear Static	VV	0,3
ELS-CHK-35			Linear Static	VLSSC	0,
ELS-CHK-35			Linear Static	VLSC	0,
ELS-CHK-35			Linear Static	TU-DIL	0,21
ELS-CHK-35			Linear Static	TU-CON	0,
ELS-CHK-35			Linear Static	GRA-HEAT	0,
ELS-CHK-35			Linear Static	GRA-COOL	0,6
ELS-CHK-36			Linear Static	PP	1,
ELS-CHK-36			Linear Static	CM-TUBERIA	1,
ELS-CHK-36			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-36	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-36			Linear Static	VTSSC	0,3
ELS-CHK-36			Linear Static	VTSC	0,
ELS-CHK-36			Linear Static	VV	0,3
ELS-CHK-36			Linear Static	VLSSC	0,
ELS-CHK-36			Linear Static	VLSC	0,
ELS-CHK-36			Linear Static	TU-DIL	0,
ELS-CHK-36			Linear Static	TU-CON	0,21
ELS-CHK-36			Linear Static	GRA-HEAT	0,
ELS-CHK-36			Linear Static	GRA-COOL	0,6
ELS-CHK-37	Linear Add	No	Linear Static	PP	1,
ELS-CHK-37			Linear Static	CM-TUBERIA	1,
ELS-CHK-37			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-37			Linear Static	SCU	0,
ELS-CHK-37			Linear Static	VTSSC	0,3
ELS-CHK-37			Linear Static	VTSC	0,
ELS-CHK-37			Linear Static	VV	0,3
ELS-CHK-37			Linear Static	VLSSC	0,
ELS-CHK-37			Linear Static	VLSC	0,
ELS-CHK-37			Linear Static	TU-DIL	0,6
ELS-CHK-37	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-37			Linear Static	GRA-HEAT	0,45
ELS-CHK-37			Linear Static	GRA-COOL	0,
ELS-CHK-38			Linear Static	PP	1,
ELS-CHK-38			Linear Static	CM-TUBERIA	1,
ELS-CHK-38			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-38			Linear Static	SCU	0,
ELS-CHK-38			Linear Static	VTSSC	0,3
ELS-CHK-38			Linear Static	VTSC	0,
ELS-CHK-38			Linear Static	VV	0,3
ELS-CHK-38	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-38			Linear Static	VLSC	0,
ELS-CHK-38			Linear Static	TU-DIL	0,
ELS-CHK-38			Linear Static	TU-CON	0,6
ELS-CHK-38			Linear Static	GRA-HEAT	0,45
ELS-CHK-38			Linear Static	GRA-COOL	0,
ELS-CHK-39			Linear Static	PP	1,
ELS-CHK-39			Linear Static	CM-TUBERIA	1,
ELS-CHK-39			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-39			Linear Static	SCU	0,
ELS-CHK-39	Linear Add	No	Linear Static	VTSSC	0,3
ELS-CHK-39			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-39	Linear Add	No	Linear Static	VV	0,3
ELS-CHK-39			Linear Static	VLSSC	0,
ELS-CHK-39			Linear Static	VLCSC	0,
ELS-CHK-39			Linear Static	TU-DIL	0,6
ELS-CHK-39			Linear Static	TU-CON	0,
ELS-CHK-39			Linear Static	GRA-HEAT	0,
ELS-CHK-39			Linear Static	GRA-COOL	0,45
ELS-CHK-40			Linear Static	PP	1,
ELS-CHK-40			Linear Static	CM-TUBERIA	1,
ELS-CHK-40	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-40			Linear Static	SCU	0,
ELS-CHK-40			Linear Static	VTSSC	0,3
ELS-CHK-40			Linear Static	VTSCC	0,
ELS-CHK-40			Linear Static	VV	0,3
ELS-CHK-40			Linear Static	VLSSC	0,
ELS-CHK-40			Linear Static	VLCSC	0,
ELS-CHK-40			Linear Static	TU-DIL	0,
ELS-CHK-40			Linear Static	TU-CON	0,6
ELS-CHK-40	Linear Add	No	Linear Static	GRA-HEAT	0,
ELS-CHK-40			Linear Static	GRA-COOL	0,45
ELS-CHK-41			Linear Static	PP	1,
ELS-CHK-41			Linear Static	CM-TUBERIA	1,
ELS-CHK-41			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-41			Linear Static	SCU	0,
ELS-CHK-41			Linear Static	VTSSC	0,
ELS-CHK-41			Linear Static	VTSCC	0,
ELS-CHK-41			Linear Static	VV	0,
ELS-CHK-41	Linear Add	No	Linear Static	VLSSC	0,3
ELS-CHK-41			Linear Static	VLCSC	0,
ELS-CHK-41			Linear Static	TU-DIL	0,21
ELS-CHK-41			Linear Static	TU-CON	0,
ELS-CHK-41			Linear Static	GRA-HEAT	0,6
ELS-CHK-41			Linear Static	GRA-COOL	0,
ELS-CHK-42			Linear Static	PP	1,
ELS-CHK-42			Linear Static	CM-TUBERIA	1,
ELS-CHK-42			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-42	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-42			Linear Static	VTSSC	0,
ELS-CHK-42			Linear Static	VTSCC	0,
ELS-CHK-42			Linear Static	VV	0,
ELS-CHK-42			Linear Static	VLSSC	0,3
ELS-CHK-42			Linear Static	VLCSC	0,
ELS-CHK-42			Linear Static	TU-DIL	0,
ELS-CHK-42			Linear Static	TU-CON	0,21
ELS-CHK-42			Linear Static	GRA-HEAT	0,6
ELS-CHK-42	Linear Add	No	Linear Static	GRA-COOL	0,
ELS-CHK-43			Linear Static	PP	1,
ELS-CHK-43			Linear Static	CM-TUBERIA	1,
ELS-CHK-43			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-43			Linear Static	SCU	0,
ELS-CHK-43			Linear Static	VTSSC	0,
ELS-CHK-43			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-43	Linear Add	No	Linear Static	VV	0,
ELS-CHK-43			Linear Static	VLSSC	0,3
ELS-CHK-43			Linear Static	VLSCC	0,
ELS-CHK-43			Linear Static	TU-DIL	0,21
ELS-CHK-43			Linear Static	TU-CON	0,
ELS-CHK-43			Linear Static	GRA-HEAT	0,
ELS-CHK-43			Linear Static	GRA-COOL	0,6
ELS-CHK-44			Linear Static	PP	1,
ELS-CHK-44			Linear Static	CM-TUBERIA	1,
ELS-CHK-44			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-44	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-44			Linear Static	VTSSC	0,
ELS-CHK-44			Linear Static	VTSCC	0,
ELS-CHK-44			Linear Static	VV	0,
ELS-CHK-44			Linear Static	VLSSC	0,3
ELS-CHK-44			Linear Static	VLSCC	0,
ELS-CHK-44			Linear Static	TU-DIL	0,
ELS-CHK-44			Linear Static	TU-CON	0,21
ELS-CHK-44			Linear Static	GRA-HEAT	0,
ELS-CHK-44			Linear Static	GRA-COOL	0,6
ELS-CHK-45	Linear Add	No	Linear Static	PP	1,
ELS-CHK-45			Linear Static	CM-TUBERIA	1,
ELS-CHK-45			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-45			Linear Static	SCU	0,
ELS-CHK-45			Linear Static	VTSSC	0,
ELS-CHK-45			Linear Static	VTSCC	0,
ELS-CHK-45			Linear Static	VV	0,
ELS-CHK-45			Linear Static	VLSSC	0,3
ELS-CHK-45			Linear Static	VLSCC	0,
ELS-CHK-45			Linear Static	TU-DIL	0,6
ELS-CHK-45	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-45			Linear Static	GRA-HEAT	0,45
ELS-CHK-45			Linear Static	GRA-COOL	0,
ELS-CHK-46			Linear Static	PP	1,
ELS-CHK-46			Linear Static	CM-TUBERIA	1,
ELS-CHK-46			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-46			Linear Static	SCU	0,
ELS-CHK-46			Linear Static	VTSSC	0,
ELS-CHK-46			Linear Static	VTSCC	0,
ELS-CHK-46			Linear Static	VV	0,
ELS-CHK-46	Linear Add	No	Linear Static	VLSSC	0,3
ELS-CHK-46			Linear Static	VLSCC	0,
ELS-CHK-46			Linear Static	TU-DIL	0,
ELS-CHK-46			Linear Static	TU-CON	0,6
ELS-CHK-46			Linear Static	GRA-HEAT	0,45
ELS-CHK-46			Linear Static	GRA-COOL	0,
ELS-CHK-47			Linear Static	PP	1,
ELS-CHK-47			Linear Static	CM-TUBERIA	1,
ELS-CHK-47			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-47			Linear Static	SCU	0,
ELS-CHK-47	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-47			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-47	Linear Add	No	Linear Static	VV	0,
ELS-CHK-47			Linear Static	VLSSC	0,3
ELS-CHK-47			Linear Static	VLCSC	0,
ELS-CHK-47			Linear Static	TU-DIL	0,6
ELS-CHK-47			Linear Static	TU-CON	0,
ELS-CHK-47			Linear Static	GRA-HEAT	0,
ELS-CHK-47			Linear Static	GRA-COOL	0,45
ELS-CHK-48			Linear Static	PP	1,
ELS-CHK-48			Linear Static	CM-TUBERIA	1,
ELS-CHK-48			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-48	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-48			Linear Static	VTSSC	0,
ELS-CHK-48			Linear Static	VTSCC	0,
ELS-CHK-48			Linear Static	VV	0,
ELS-CHK-48			Linear Static	VLSSC	0,3
ELS-CHK-48			Linear Static	VLCSC	0,
ELS-CHK-48			Linear Static	TU-DIL	0,
ELS-CHK-48			Linear Static	TU-CON	0,6
ELS-CHK-48			Linear Static	GRA-HEAT	0,
ELS-CHK-48			Linear Static	GRA-COOL	0,45
ELS-CHK-49	Linear Add	No	Linear Static	PP	1,
ELS-CHK-49			Linear Static	CM-TUBERIA	1,
ELS-CHK-49			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-49			Linear Static	SCU	1,
ELS-CHK-49			Linear Static	VTSSC	0,
ELS-CHK-49			Linear Static	VTSCC	0,
ELS-CHK-49			Linear Static	VV	0,
ELS-CHK-49			Linear Static	VLSSC	0,
ELS-CHK-49			Linear Static	VLCSC	0,3
ELS-CHK-49			Linear Static	TU-DIL	0,21
ELS-CHK-49	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-49			Linear Static	GRA-HEAT	0,6
ELS-CHK-49			Linear Static	GRA-COOL	0,
ELS-CHK-50			Linear Static	PP	1,
ELS-CHK-50			Linear Static	CM-TUBERIA	1,
ELS-CHK-50			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-50			Linear Static	SCU	1,
ELS-CHK-50			Linear Static	VTSSC	0,
ELS-CHK-50			Linear Static	VTSCC	0,
ELS-CHK-50			Linear Static	VV	0,
ELS-CHK-50	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-50			Linear Static	VLCSC	0,3
ELS-CHK-50			Linear Static	TU-DIL	0,
ELS-CHK-50			Linear Static	TU-CON	0,21
ELS-CHK-50			Linear Static	GRA-HEAT	0,6
ELS-CHK-50			Linear Static	GRA-COOL	0,
ELS-CHK-51			Linear Static	PP	1,
ELS-CHK-51			Linear Static	CM-TUBERIA	1,
ELS-CHK-51			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-51			Linear Static	SCU	1,
ELS-CHK-51	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-51			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-51	Linear Add	No	Linear Static	VV	0,
ELS-CHK-51			Linear Static	VLSSC	0,
ELS-CHK-51			Linear Static	VLSCC	0,3
ELS-CHK-51			Linear Static	TU-DIL	0,21
ELS-CHK-51			Linear Static	TU-CON	0,
ELS-CHK-51			Linear Static	GRA-HEAT	0,
ELS-CHK-51			Linear Static	GRA-COOL	0,6
ELS-CHK-52			Linear Static	PP	1,
ELS-CHK-52			Linear Static	CM-TUBERIA	1,
ELS-CHK-52			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-52	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-52			Linear Static	VTSSC	0,
ELS-CHK-52			Linear Static	VTSCC	0,
ELS-CHK-52			Linear Static	VV	0,
ELS-CHK-52			Linear Static	VLSSC	0,
ELS-CHK-52			Linear Static	VLSCC	0,3
ELS-CHK-52			Linear Static	TU-DIL	0,
ELS-CHK-52			Linear Static	TU-CON	0,21
ELS-CHK-52			Linear Static	GRA-HEAT	0,
ELS-CHK-52			Linear Static	GRA-COOL	0,6
ELS-CHK-53	Linear Add	No	Linear Static	PP	1,
ELS-CHK-53			Linear Static	CM-TUBERIA	1,
ELS-CHK-53			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-53			Linear Static	SCU	1,
ELS-CHK-53			Linear Static	VTSSC	0,
ELS-CHK-53			Linear Static	VTSCC	0,
ELS-CHK-53			Linear Static	VV	0,
ELS-CHK-53			Linear Static	VLSSC	0,
ELS-CHK-53			Linear Static	VLSCC	0,3
ELS-CHK-53			Linear Static	TU-DIL	0,6
ELS-CHK-53	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-53			Linear Static	GRA-HEAT	0,45
ELS-CHK-53			Linear Static	GRA-COOL	0,
ELS-CHK-54			Linear Static	PP	1,
ELS-CHK-54			Linear Static	CM-TUBERIA	1,
ELS-CHK-54			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-54			Linear Static	SCU	1,
ELS-CHK-54			Linear Static	VTSSC	0,
ELS-CHK-54			Linear Static	VTSCC	0,
ELS-CHK-54			Linear Static	VV	0,
ELS-CHK-54	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-54			Linear Static	VLSCC	0,3
ELS-CHK-54			Linear Static	TU-DIL	0,
ELS-CHK-54			Linear Static	TU-CON	0,6
ELS-CHK-54			Linear Static	GRA-HEAT	0,45
ELS-CHK-54			Linear Static	GRA-COOL	0,
ELS-CHK-55			Linear Static	PP	1,
ELS-CHK-55			Linear Static	CM-TUBERIA	1,
ELS-CHK-55			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-55			Linear Static	SCU	1,
ELS-CHK-55	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-55			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-55	Linear Add	No	Linear Static	VV	0,
ELS-CHK-55			Linear Static	VLSSC	0,
ELS-CHK-55			Linear Static	VLCSC	0,3
ELS-CHK-55			Linear Static	TU-DIL	0,6
ELS-CHK-55			Linear Static	TU-CON	0,
ELS-CHK-55			Linear Static	GRA-HEAT	0,
ELS-CHK-55			Linear Static	GRA-COOL	0,45
ELS-CHK-56			Linear Static	PP	1,
ELS-CHK-56			Linear Static	CM-TUBERIA	1,
ELS-CHK-56			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-56	Linear Add	No	Linear Static	SCU	1,
ELS-CHK-56			Linear Static	VTSSC	0,
ELS-CHK-56			Linear Static	VTSCC	0,
ELS-CHK-56			Linear Static	VV	0,
ELS-CHK-56			Linear Static	VLSSC	0,
ELS-CHK-56			Linear Static	VLCSC	0,3
ELS-CHK-56			Linear Static	TU-DIL	0,
ELS-CHK-56			Linear Static	TU-CON	0,6
ELS-CHK-56			Linear Static	GRA-HEAT	0,
ELS-CHK-56			Linear Static	GRA-COOL	0,45
ELS-CHK-57	Linear Add	No	Linear Static	PP	1,
ELS-CHK-57			Linear Static	CM-TUBERIA	1,
ELS-CHK-57			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-57			Linear Static	SCU	0,4
ELS-CHK-57			Linear Static	VTSSC	0,
ELS-CHK-57			Linear Static	VTSCC	0,
ELS-CHK-57			Linear Static	VV	0,
ELS-CHK-57			Linear Static	VLSSC	0,
ELS-CHK-57			Linear Static	VLCSC	0,
ELS-CHK-57			Linear Static	TU-DIL	0,21
ELS-CHK-57	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-57			Linear Static	GRA-HEAT	0,6
ELS-CHK-57			Linear Static	GRA-COOL	0,
ELS-CHK-58			Linear Static	PP	1,
ELS-CHK-58			Linear Static	CM-TUBERIA	1,
ELS-CHK-58			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-58			Linear Static	SCU	0,4
ELS-CHK-58			Linear Static	VTSSC	0,
ELS-CHK-58			Linear Static	VTSCC	0,
ELS-CHK-58			Linear Static	VV	0,
ELS-CHK-58	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-58			Linear Static	VLCSC	0,
ELS-CHK-58			Linear Static	TU-DIL	0,
ELS-CHK-58			Linear Static	TU-CON	0,21
ELS-CHK-58			Linear Static	GRA-HEAT	0,6
ELS-CHK-58			Linear Static	GRA-COOL	0,
ELS-CHK-59			Linear Static	PP	1,
ELS-CHK-59			Linear Static	CM-TUBERIA	1,
ELS-CHK-59			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-59			Linear Static	SCU	0,4
ELS-CHK-59	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-59			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-59	Linear Add	No	Linear Static	VV	0,
ELS-CHK-59			Linear Static	VLSSC	0,
ELS-CHK-59			Linear Static	VLSCC	0,
ELS-CHK-59			Linear Static	TU-DIL	0,21
ELS-CHK-59			Linear Static	TU-CON	0,
ELS-CHK-59			Linear Static	GRA-HEAT	0,
ELS-CHK-59			Linear Static	GRA-COOL	0,6
ELS-CHK-60			Linear Static	PP	1,
ELS-CHK-60			Linear Static	CM-TUBERIA	1,
ELS-CHK-60			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-60	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-60			Linear Static	VTSSC	0,
ELS-CHK-60			Linear Static	VTSCC	0,
ELS-CHK-60			Linear Static	VV	0,
ELS-CHK-60			Linear Static	VLSSC	0,
ELS-CHK-60			Linear Static	VLSCC	0,
ELS-CHK-60			Linear Static	TU-DIL	0,
ELS-CHK-60			Linear Static	TU-CON	0,21
ELS-CHK-60			Linear Static	GRA-HEAT	0,
ELS-CHK-60			Linear Static	GRA-COOL	0,6
ELS-CHK-61	Linear Add	No	Linear Static	PP	1,
ELS-CHK-61			Linear Static	CM-TUBERIA	1,
ELS-CHK-61			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-61			Linear Static	SCU	0,4
ELS-CHK-61			Linear Static	VTSSC	0,
ELS-CHK-61			Linear Static	VTSCC	0,
ELS-CHK-61			Linear Static	VV	0,
ELS-CHK-61			Linear Static	VLSSC	0,
ELS-CHK-61			Linear Static	VLSCC	0,
ELS-CHK-61			Linear Static	TU-DIL	0,6
ELS-CHK-61	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-61			Linear Static	GRA-HEAT	0,45
ELS-CHK-61			Linear Static	GRA-COOL	0,
ELS-CHK-62			Linear Static	PP	1,
ELS-CHK-62			Linear Static	CM-TUBERIA	1,
ELS-CHK-62			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-62			Linear Static	SCU	0,4
ELS-CHK-62			Linear Static	VTSSC	0,
ELS-CHK-62			Linear Static	VTSCC	0,
ELS-CHK-62			Linear Static	VV	0,
ELS-CHK-62	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-62			Linear Static	VLSCC	0,
ELS-CHK-62			Linear Static	TU-DIL	0,
ELS-CHK-62			Linear Static	TU-CON	0,6
ELS-CHK-62			Linear Static	GRA-HEAT	0,45
ELS-CHK-62			Linear Static	GRA-COOL	0,
ELS-CHK-63			Linear Static	PP	1,
ELS-CHK-63			Linear Static	CM-TUBERIA	1,
ELS-CHK-63			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-63			Linear Static	SCU	0,4
ELS-CHK-63	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-63			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-63	Linear Add	No	Linear Static	VV	0,
ELS-CHK-63			Linear Static	VLSSC	0,
ELS-CHK-63			Linear Static	VLCSC	0,
ELS-CHK-63			Linear Static	TU-DIL	0,6
ELS-CHK-63			Linear Static	TU-CON	0,
ELS-CHK-63			Linear Static	GRA-HEAT	0,
ELS-CHK-63			Linear Static	GRA-COOL	0,45
ELS-CHK-64			Linear Static	PP	1,
ELS-CHK-64			Linear Static	CM-TUBERIA	1,
ELS-CHK-64			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-64	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-64			Linear Static	VTSSC	0,
ELS-CHK-64			Linear Static	VTSCC	0,
ELS-CHK-64			Linear Static	VV	0,
ELS-CHK-64			Linear Static	VLSSC	0,
ELS-CHK-64			Linear Static	VLCSC	0,
ELS-CHK-64			Linear Static	TU-DIL	0,
ELS-CHK-64			Linear Static	TU-CON	0,6
ELS-CHK-64			Linear Static	GRA-HEAT	0,
ELS-CHK-64			Linear Static	GRA-COOL	0,45
ELS-CHK-65	Linear Add	No	Linear Static	PP	1,
ELS-CHK-65			Linear Static	CM-TUBERIA	1,
ELS-CHK-65			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-65			Linear Static	SCU	0,4
ELS-CHK-65			Linear Static	VTSSC	0,
ELS-CHK-65			Linear Static	VTSCC	1,
ELS-CHK-65			Linear Static	VV	0,
ELS-CHK-65			Linear Static	VLSSC	0,
ELS-CHK-65			Linear Static	VLCSC	0,
ELS-CHK-65			Linear Static	TU-DIL	0,21
ELS-CHK-65	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-65			Linear Static	GRA-HEAT	0,6
ELS-CHK-65			Linear Static	GRA-COOL	0,
ELS-CHK-66			Linear Static	PP	1,
ELS-CHK-66			Linear Static	CM-TUBERIA	1,
ELS-CHK-66			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-66			Linear Static	SCU	0,4
ELS-CHK-66			Linear Static	VTSSC	0,
ELS-CHK-66			Linear Static	VTSCC	1,
ELS-CHK-66			Linear Static	VV	0,
ELS-CHK-66	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-66			Linear Static	VLCSC	0,
ELS-CHK-66			Linear Static	TU-DIL	0,
ELS-CHK-66			Linear Static	TU-CON	0,21
ELS-CHK-66			Linear Static	GRA-HEAT	0,6
ELS-CHK-66			Linear Static	GRA-COOL	0,
ELS-CHK-67			Linear Static	PP	1,
ELS-CHK-67			Linear Static	CM-TUBERIA	1,
ELS-CHK-67			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-67			Linear Static	SCU	0,4
ELS-CHK-67	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-67			Linear Static	VTSCC	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-67	Linear Add	No	Linear Static	VV	0,
ELS-CHK-67			Linear Static	VLSSC	0,
ELS-CHK-67			Linear Static	VLSCC	0,
ELS-CHK-67			Linear Static	TU-DIL	0,21
ELS-CHK-67			Linear Static	TU-CON	0,
ELS-CHK-67			Linear Static	GRA-HEAT	0,
ELS-CHK-67			Linear Static	GRA-COOL	0,6
ELS-CHK-68			Linear Static	PP	1,
ELS-CHK-68			Linear Static	CM-TUBERIA	1,
ELS-CHK-68			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-68	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-68			Linear Static	VTSSC	0,
ELS-CHK-68			Linear Static	VTSCC	1,
ELS-CHK-68			Linear Static	VV	0,
ELS-CHK-68			Linear Static	VLSSC	0,
ELS-CHK-68			Linear Static	VLSCC	0,
ELS-CHK-68			Linear Static	TU-DIL	0,
ELS-CHK-68			Linear Static	TU-CON	0,21
ELS-CHK-68			Linear Static	GRA-HEAT	0,
ELS-CHK-68			Linear Static	GRA-COOL	0,6
ELS-CHK-69	Linear Add	No	Linear Static	PP	1,
ELS-CHK-69			Linear Static	CM-TUBERIA	1,
ELS-CHK-69			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-69			Linear Static	SCU	0,4
ELS-CHK-69			Linear Static	VTSSC	0,
ELS-CHK-69			Linear Static	VTSCC	1,
ELS-CHK-69			Linear Static	VV	0,
ELS-CHK-69			Linear Static	VLSSC	0,
ELS-CHK-69			Linear Static	VLSCC	0,
ELS-CHK-69			Linear Static	TU-DIL	0,6
ELS-CHK-69	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-69			Linear Static	GRA-HEAT	0,45
ELS-CHK-69			Linear Static	GRA-COOL	0,
ELS-CHK-70			Linear Static	PP	1,
ELS-CHK-70			Linear Static	CM-TUBERIA	1,
ELS-CHK-70			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-70			Linear Static	SCU	0,4
ELS-CHK-70			Linear Static	VTSSC	0,
ELS-CHK-70			Linear Static	VTSCC	1,
ELS-CHK-70			Linear Static	VV	0,
ELS-CHK-70	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-70			Linear Static	VLSCC	0,
ELS-CHK-70			Linear Static	TU-DIL	0,
ELS-CHK-70			Linear Static	TU-CON	0,6
ELS-CHK-70			Linear Static	GRA-HEAT	0,45
ELS-CHK-70			Linear Static	GRA-COOL	0,
ELS-CHK-71			Linear Static	PP	1,
ELS-CHK-71			Linear Static	CM-TUBERIA	1,
ELS-CHK-71			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-71			Linear Static	SCU	0,4
ELS-CHK-71	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-71			Linear Static	VTSCC	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-71	Linear Add	No	Linear Static	VV	0,
ELS-CHK-71			Linear Static	VLSSC	0,
ELS-CHK-71			Linear Static	VLCSC	0,
ELS-CHK-71			Linear Static	TU-DIL	0,6
ELS-CHK-71			Linear Static	TU-CON	0,
ELS-CHK-71			Linear Static	GRA-HEAT	0,
ELS-CHK-71			Linear Static	GRA-COOL	0,45
ELS-CHK-72			Linear Static	PP	1,
ELS-CHK-72			Linear Static	CM-TUBERIA	1,
ELS-CHK-72			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-72	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-72			Linear Static	VTSSC	0,
ELS-CHK-72			Linear Static	VTSCC	1,
ELS-CHK-72			Linear Static	VV	0,
ELS-CHK-72			Linear Static	VLSSC	0,
ELS-CHK-72			Linear Static	VLCSC	0,
ELS-CHK-72			Linear Static	TU-DIL	0,
ELS-CHK-72			Linear Static	TU-CON	0,6
ELS-CHK-72			Linear Static	GRA-HEAT	0,
ELS-CHK-72			Linear Static	GRA-COOL	0,45
ELS-CHK-73	Linear Add	No	Linear Static	PP	1,
ELS-CHK-73			Linear Static	CM-TUBERIA	1,
ELS-CHK-73			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-73			Linear Static	SCU	0,4
ELS-CHK-73			Linear Static	VTSSC	0,
ELS-CHK-73			Linear Static	VTSCC	1,
ELS-CHK-73			Linear Static	VV	1,
ELS-CHK-73			Linear Static	VLSSC	0,
ELS-CHK-73			Linear Static	VLCSC	0,
ELS-CHK-73			Linear Static	TU-DIL	0,21
ELS-CHK-73	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-73			Linear Static	GRA-HEAT	0,6
ELS-CHK-73			Linear Static	GRA-COOL	0,
ELS-CHK-74			Linear Static	PP	1,
ELS-CHK-74			Linear Static	CM-TUBERIA	1,
ELS-CHK-74			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-74			Linear Static	SCU	0,4
ELS-CHK-74			Linear Static	VTSSC	0,
ELS-CHK-74			Linear Static	VTSCC	1,
ELS-CHK-74			Linear Static	VV	1,
ELS-CHK-74	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-74			Linear Static	VLCSC	0,
ELS-CHK-74			Linear Static	TU-DIL	0,
ELS-CHK-74			Linear Static	TU-CON	0,21
ELS-CHK-74			Linear Static	GRA-HEAT	0,6
ELS-CHK-74			Linear Static	GRA-COOL	0,
ELS-CHK-75			Linear Static	PP	1,
ELS-CHK-75			Linear Static	CM-TUBERIA	1,
ELS-CHK-75			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-75			Linear Static	SCU	0,4
ELS-CHK-75	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-75			Linear Static	VTSCC	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-75	Linear Add	No	Linear Static	VV	1,
ELS-CHK-75			Linear Static	VLSSC	0,
ELS-CHK-75			Linear Static	VLSCC	0,
ELS-CHK-75			Linear Static	TU-DIL	0,21
ELS-CHK-75			Linear Static	TU-CON	0,
ELS-CHK-75			Linear Static	GRA-HEAT	0,
ELS-CHK-75			Linear Static	GRA-COOL	0,6
ELS-CHK-76			Linear Static	PP	1,
ELS-CHK-76			Linear Static	CM-TUBERIA	1,
ELS-CHK-76			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-76	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-76			Linear Static	VTSSC	0,
ELS-CHK-76			Linear Static	VTSCC	1,
ELS-CHK-76			Linear Static	VV	1,
ELS-CHK-76			Linear Static	VLSSC	0,
ELS-CHK-76			Linear Static	VLSCC	0,
ELS-CHK-76			Linear Static	TU-DIL	0,
ELS-CHK-76			Linear Static	TU-CON	0,21
ELS-CHK-76			Linear Static	GRA-HEAT	0,
ELS-CHK-76			Linear Static	GRA-COOL	0,6
ELS-CHK-77	Linear Add	No	Linear Static	PP	1,
ELS-CHK-77			Linear Static	CM-TUBERIA	1,
ELS-CHK-77			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-77			Linear Static	SCU	0,4
ELS-CHK-77			Linear Static	VTSSC	0,
ELS-CHK-77			Linear Static	VTSCC	1,
ELS-CHK-77			Linear Static	VV	1,
ELS-CHK-77			Linear Static	VLSSC	0,
ELS-CHK-77			Linear Static	VLSCC	0,
ELS-CHK-77			Linear Static	TU-DIL	0,6
ELS-CHK-77	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-77			Linear Static	GRA-HEAT	0,45
ELS-CHK-77			Linear Static	GRA-COOL	0,
ELS-CHK-78			Linear Static	PP	1,
ELS-CHK-78			Linear Static	CM-TUBERIA	1,
ELS-CHK-78			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-78			Linear Static	SCU	0,4
ELS-CHK-78			Linear Static	VTSSC	0,
ELS-CHK-78			Linear Static	VTSCC	1,
ELS-CHK-78			Linear Static	VV	1,
ELS-CHK-78	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-78			Linear Static	VLSCC	0,
ELS-CHK-78			Linear Static	TU-DIL	0,
ELS-CHK-78			Linear Static	TU-CON	0,6
ELS-CHK-78			Linear Static	GRA-HEAT	0,45
ELS-CHK-78			Linear Static	GRA-COOL	0,
ELS-CHK-79			Linear Static	PP	1,
ELS-CHK-79			Linear Static	CM-TUBERIA	1,
ELS-CHK-79			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-79			Linear Static	SCU	0,4
ELS-CHK-79	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-79			Linear Static	VTSCC	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-79	Linear Add	No	Linear Static	VV	1,
ELS-CHK-79			Linear Static	VLSSC	0,
ELS-CHK-79			Linear Static	VLCSC	0,
ELS-CHK-79			Linear Static	TU-DIL	0,6
ELS-CHK-79			Linear Static	TU-CON	0,
ELS-CHK-79			Linear Static	GRA-HEAT	0,
ELS-CHK-79			Linear Static	GRA-COOL	0,45
ELS-CHK-80			Linear Static	PP	1,
ELS-CHK-80			Linear Static	CM-TUBERIA	1,
ELS-CHK-80			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-80	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-80			Linear Static	VTSSC	0,
ELS-CHK-80			Linear Static	VTSCC	1,
ELS-CHK-80			Linear Static	VV	1,
ELS-CHK-80			Linear Static	VLSSC	0,
ELS-CHK-80			Linear Static	VLCSC	0,
ELS-CHK-80			Linear Static	TU-DIL	0,
ELS-CHK-80			Linear Static	TU-CON	0,6
ELS-CHK-80			Linear Static	GRA-HEAT	0,
ELS-CHK-80			Linear Static	GRA-COOL	0,45
ELS-CHK-81	Linear Add	No	Linear Static	PP	1,
ELS-CHK-81			Linear Static	CM-TUBERIA	1,
ELS-CHK-81			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-81			Linear Static	SCU	0,
ELS-CHK-81			Linear Static	VTSSC	1,
ELS-CHK-81			Linear Static	VTSCC	0,
ELS-CHK-81			Linear Static	VV	0,
ELS-CHK-81			Linear Static	VLSSC	0,
ELS-CHK-81			Linear Static	VLCSC	0,
ELS-CHK-81			Linear Static	TU-DIL	0,21
ELS-CHK-81	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-81			Linear Static	GRA-HEAT	0,6
ELS-CHK-81			Linear Static	GRA-COOL	0,
ELS-CHK-82			Linear Static	PP	1,
ELS-CHK-82			Linear Static	CM-TUBERIA	1,
ELS-CHK-82			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-82			Linear Static	SCU	0,
ELS-CHK-82			Linear Static	VTSSC	1,
ELS-CHK-82			Linear Static	VTSCC	0,
ELS-CHK-82			Linear Static	VV	0,
ELS-CHK-82	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-82			Linear Static	VLCSC	0,
ELS-CHK-82			Linear Static	TU-DIL	0,
ELS-CHK-82			Linear Static	TU-CON	0,21
ELS-CHK-82			Linear Static	GRA-HEAT	0,6
ELS-CHK-82			Linear Static	GRA-COOL	0,
ELS-CHK-83			Linear Static	PP	1,
ELS-CHK-83			Linear Static	CM-TUBERIA	1,
ELS-CHK-83			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-83			Linear Static	SCU	0,
ELS-CHK-83	Linear Add	No	Linear Static	VTSSC	1,
ELS-CHK-83			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-83	Linear Add	No	Linear Static	VV	0,
ELS-CHK-83			Linear Static	VLSSC	0,
ELS-CHK-83			Linear Static	VLSCC	0,
ELS-CHK-83			Linear Static	TU-DIL	0,21
ELS-CHK-83			Linear Static	TU-CON	0,
ELS-CHK-83			Linear Static	GRA-HEAT	0,
ELS-CHK-83			Linear Static	GRA-COOL	0,6
ELS-CHK-84			Linear Static	PP	1,
ELS-CHK-84			Linear Static	CM-TUBERIA	1,
ELS-CHK-84			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-84	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-84			Linear Static	VTSSC	1,
ELS-CHK-84			Linear Static	VTSCC	0,
ELS-CHK-84			Linear Static	VV	0,
ELS-CHK-84			Linear Static	VLSSC	0,
ELS-CHK-84			Linear Static	VLSCC	0,
ELS-CHK-84			Linear Static	TU-DIL	0,
ELS-CHK-84			Linear Static	TU-CON	0,21
ELS-CHK-84			Linear Static	GRA-HEAT	0,
ELS-CHK-84			Linear Static	GRA-COOL	0,6
ELS-CHK-85	Linear Add	No	Linear Static	PP	1,
ELS-CHK-85			Linear Static	CM-TUBERIA	1,
ELS-CHK-85			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-85			Linear Static	SCU	0,
ELS-CHK-85			Linear Static	VTSSC	1,
ELS-CHK-85			Linear Static	VTSCC	0,
ELS-CHK-85			Linear Static	VV	0,
ELS-CHK-85			Linear Static	VLSSC	0,
ELS-CHK-85			Linear Static	VLSCC	0,
ELS-CHK-85			Linear Static	TU-DIL	0,6
ELS-CHK-85	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-85			Linear Static	GRA-HEAT	0,45
ELS-CHK-85			Linear Static	GRA-COOL	0,
ELS-CHK-86			Linear Static	PP	1,
ELS-CHK-86			Linear Static	CM-TUBERIA	1,
ELS-CHK-86			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-86			Linear Static	SCU	0,
ELS-CHK-86			Linear Static	VTSSC	1,
ELS-CHK-86			Linear Static	VTSCC	0,
ELS-CHK-86			Linear Static	VV	0,
ELS-CHK-86	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-86			Linear Static	VLSCC	0,
ELS-CHK-86			Linear Static	TU-DIL	0,
ELS-CHK-86			Linear Static	TU-CON	0,6
ELS-CHK-86			Linear Static	GRA-HEAT	0,45
ELS-CHK-86			Linear Static	GRA-COOL	0,
ELS-CHK-87			Linear Static	PP	1,
ELS-CHK-87			Linear Static	CM-TUBERIA	1,
ELS-CHK-87			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-87			Linear Static	SCU	0,
ELS-CHK-87	Linear Add	No	Linear Static	VTSSC	1,
ELS-CHK-87			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-87	Linear Add	No	Linear Static	VV	0,
ELS-CHK-87			Linear Static	VLSSC	0,
ELS-CHK-87			Linear Static	VLCSC	0,
ELS-CHK-87			Linear Static	TU-DIL	0,6
ELS-CHK-87			Linear Static	TU-CON	0,
ELS-CHK-87			Linear Static	GRA-HEAT	0,
ELS-CHK-87			Linear Static	GRA-COOL	0,45
ELS-CHK-88			Linear Static	PP	1,
ELS-CHK-88			Linear Static	CM-TUBERIA	1,
ELS-CHK-88			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-88	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-88			Linear Static	VTSSC	1,
ELS-CHK-88			Linear Static	VTSCC	0,
ELS-CHK-88			Linear Static	VV	0,
ELS-CHK-88			Linear Static	VLSSC	0,
ELS-CHK-88			Linear Static	VLCSC	0,
ELS-CHK-88			Linear Static	TU-DIL	0,
ELS-CHK-88			Linear Static	TU-CON	0,6
ELS-CHK-88			Linear Static	GRA-HEAT	0,
ELS-CHK-88			Linear Static	GRA-COOL	0,45
ELS-CHK-89	Linear Add	No	Linear Static	PP	1,
ELS-CHK-89			Linear Static	CM-TUBERIA	1,
ELS-CHK-89			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-89			Linear Static	SCU	0,
ELS-CHK-89			Linear Static	VTSSC	1,
ELS-CHK-89			Linear Static	VTSCC	0,
ELS-CHK-89			Linear Static	VV	1,
ELS-CHK-89			Linear Static	VLSSC	0,
ELS-CHK-89			Linear Static	VLCSC	0,
ELS-CHK-89			Linear Static	TU-DIL	0,21
ELS-CHK-89	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-89			Linear Static	GRA-HEAT	0,6
ELS-CHK-89			Linear Static	GRA-COOL	0,
ELS-CHK-90			Linear Static	PP	1,
ELS-CHK-90			Linear Static	CM-TUBERIA	1,
ELS-CHK-90			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-90			Linear Static	SCU	0,
ELS-CHK-90			Linear Static	VTSSC	1,
ELS-CHK-90			Linear Static	VTSCC	0,
ELS-CHK-90			Linear Static	VV	1,
ELS-CHK-90	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-90			Linear Static	VLCSC	0,
ELS-CHK-90			Linear Static	TU-DIL	0,
ELS-CHK-90			Linear Static	TU-CON	0,21
ELS-CHK-90			Linear Static	GRA-HEAT	0,6
ELS-CHK-90			Linear Static	GRA-COOL	0,
ELS-CHK-91			Linear Static	PP	1,
ELS-CHK-91			Linear Static	CM-TUBERIA	1,
ELS-CHK-91			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-91			Linear Static	SCU	0,
ELS-CHK-91	Linear Add	No	Linear Static	VTSSC	1,
ELS-CHK-91			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-91	Linear Add	No	Linear Static	VV	1,
ELS-CHK-91			Linear Static	VLSSC	0,
ELS-CHK-91			Linear Static	VLSCC	0,
ELS-CHK-91			Linear Static	TU-DIL	0,21
ELS-CHK-91			Linear Static	TU-CON	0,
ELS-CHK-91			Linear Static	GRA-HEAT	0,
ELS-CHK-91			Linear Static	GRA-COOL	0,6
ELS-CHK-92			Linear Static	PP	1,
ELS-CHK-92			Linear Static	CM-TUBERIA	1,
ELS-CHK-92			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-92	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-92			Linear Static	VTSSC	1,
ELS-CHK-92			Linear Static	VTSCC	0,
ELS-CHK-92			Linear Static	VV	1,
ELS-CHK-92			Linear Static	VLSSC	0,
ELS-CHK-92			Linear Static	VLSCC	0,
ELS-CHK-92			Linear Static	TU-DIL	0,
ELS-CHK-92			Linear Static	TU-CON	0,21
ELS-CHK-92			Linear Static	GRA-HEAT	0,
ELS-CHK-92			Linear Static	GRA-COOL	0,6
ELS-CHK-93	Linear Add	No	Linear Static	PP	1,
ELS-CHK-93			Linear Static	CM-TUBERIA	1,
ELS-CHK-93			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-93			Linear Static	SCU	0,
ELS-CHK-93			Linear Static	VTSSC	1,
ELS-CHK-93			Linear Static	VTSCC	0,
ELS-CHK-93			Linear Static	VV	1,
ELS-CHK-93			Linear Static	VLSSC	0,
ELS-CHK-93			Linear Static	VLSCC	0,
ELS-CHK-93			Linear Static	TU-DIL	0,6
ELS-CHK-93	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-93			Linear Static	GRA-HEAT	0,45
ELS-CHK-93			Linear Static	GRA-COOL	0,
ELS-CHK-94			Linear Static	PP	1,
ELS-CHK-94			Linear Static	CM-TUBERIA	1,
ELS-CHK-94			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-94			Linear Static	SCU	0,
ELS-CHK-94			Linear Static	VTSSC	1,
ELS-CHK-94			Linear Static	VTSCC	0,
ELS-CHK-94			Linear Static	VV	1,
ELS-CHK-94	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-94			Linear Static	VLSCC	0,
ELS-CHK-94			Linear Static	TU-DIL	0,
ELS-CHK-94			Linear Static	TU-CON	0,6
ELS-CHK-94			Linear Static	GRA-HEAT	0,45
ELS-CHK-94			Linear Static	GRA-COOL	0,
ELS-CHK-95			Linear Static	PP	1,
ELS-CHK-95			Linear Static	CM-TUBERIA	1,
ELS-CHK-95			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-95			Linear Static	SCU	0,
ELS-CHK-95	Linear Add	No	Linear Static	VTSSC	1,
ELS-CHK-95			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-95	Linear Add	No	Linear Static	VV	1,
ELS-CHK-95			Linear Static	VLSSC	0,
ELS-CHK-95			Linear Static	VLCSC	0,
ELS-CHK-95			Linear Static	TU-DIL	0,6
ELS-CHK-95			Linear Static	TU-CON	0,
ELS-CHK-95			Linear Static	GRA-HEAT	0,
ELS-CHK-95			Linear Static	GRA-COOL	0,45
ELS-CHK-96			Linear Static	PP	1,
ELS-CHK-96			Linear Static	CM-TUBERIA	1,
ELS-CHK-96			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-96	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-96			Linear Static	VTSSC	1,
ELS-CHK-96			Linear Static	UTCSC	0,
ELS-CHK-96			Linear Static	VV	1,
ELS-CHK-96			Linear Static	VLSSC	0,
ELS-CHK-96			Linear Static	VLCSC	0,
ELS-CHK-96			Linear Static	TU-DIL	0,
ELS-CHK-96			Linear Static	TU-CON	0,6
ELS-CHK-96			Linear Static	GRA-HEAT	0,
ELS-CHK-96			Linear Static	GRA-COOL	0,45
ELS-CHK-97	Linear Add	No	Linear Static	PP	1,
ELS-CHK-97			Linear Static	CM-TUBERIA	1,
ELS-CHK-97			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-97			Linear Static	SCU	0,
ELS-CHK-97			Linear Static	VTSSC	0,
ELS-CHK-97			Linear Static	UTCSC	0,
ELS-CHK-97			Linear Static	VV	0,
ELS-CHK-97			Linear Static	VLSSC	1,
ELS-CHK-97			Linear Static	VLCSC	0,
ELS-CHK-97			Linear Static	TU-DIL	0,21
ELS-CHK-97	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-97			Linear Static	GRA-HEAT	0,6
ELS-CHK-97			Linear Static	GRA-COOL	0,
ELS-CHK-98			Linear Static	PP	1,
ELS-CHK-98			Linear Static	CM-TUBERIA	1,
ELS-CHK-98			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-98			Linear Static	SCU	0,
ELS-CHK-98			Linear Static	VTSSC	0,
ELS-CHK-98			Linear Static	UTCSC	0,
ELS-CHK-98			Linear Static	VV	0,
ELS-CHK-98	Linear Add	No	Linear Static	VLSSC	1,
ELS-CHK-98			Linear Static	VLCSC	0,
ELS-CHK-98			Linear Static	TU-DIL	0,
ELS-CHK-98			Linear Static	TU-CON	0,21
ELS-CHK-98			Linear Static	GRA-HEAT	0,6
ELS-CHK-98			Linear Static	GRA-COOL	0,
ELS-CHK-99			Linear Static	PP	1,
ELS-CHK-99			Linear Static	CM-TUBERIA	1,
ELS-CHK-99			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-99			Linear Static	SCU	0,
ELS-CHK-99	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-99			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-99	Linear Add	No	Linear Static	VV	0,
ELS-CHK-99			Linear Static	VLSSC	1,
ELS-CHK-99			Linear Static	VLSCC	0,
ELS-CHK-99			Linear Static	TU-DIL	0,21
ELS-CHK-99			Linear Static	TU-CON	0,
ELS-CHK-99			Linear Static	GRA-HEAT	0,
ELS-CHK-99			Linear Static	GRA-COOL	0,6
ELS-CHK-100			Linear Static	PP	1,
ELS-CHK-100			Linear Static	CM-TUBERIA	1,
ELS-CHK-100			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-100	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-100			Linear Static	VTSSC	0,
ELS-CHK-100			Linear Static	VTSCC	0,
ELS-CHK-100			Linear Static	VV	0,
ELS-CHK-100			Linear Static	VLSSC	1,
ELS-CHK-100			Linear Static	VLSCC	0,
ELS-CHK-100			Linear Static	TU-DIL	0,
ELS-CHK-100			Linear Static	TU-CON	0,21
ELS-CHK-100			Linear Static	GRA-HEAT	0,
ELS-CHK-100			Linear Static	GRA-COOL	0,6
ELS-CHK-101	Linear Add	No	Linear Static	PP	1,
ELS-CHK-101			Linear Static	CM-TUBERIA	1,
ELS-CHK-101			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-101			Linear Static	SCU	0,
ELS-CHK-101			Linear Static	VTSSC	0,
ELS-CHK-101			Linear Static	VTSCC	0,
ELS-CHK-101			Linear Static	VV	0,
ELS-CHK-101			Linear Static	VLSSC	1,
ELS-CHK-101			Linear Static	VLSCC	0,
ELS-CHK-101			Linear Static	TU-DIL	0,6
ELS-CHK-101	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-101			Linear Static	GRA-HEAT	0,45
ELS-CHK-101			Linear Static	GRA-COOL	0,
ELS-CHK-102			Linear Static	PP	1,
ELS-CHK-102			Linear Static	CM-TUBERIA	1,
ELS-CHK-102			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-102			Linear Static	SCU	0,
ELS-CHK-102			Linear Static	VTSSC	0,
ELS-CHK-102			Linear Static	VTSCC	0,
ELS-CHK-102			Linear Static	VV	0,
ELS-CHK-102	Linear Add	No	Linear Static	VLSSC	1,
ELS-CHK-102			Linear Static	VLSCC	0,
ELS-CHK-102			Linear Static	TU-DIL	0,
ELS-CHK-102			Linear Static	TU-CON	0,6
ELS-CHK-102			Linear Static	GRA-HEAT	0,45
ELS-CHK-102			Linear Static	GRA-COOL	0,
ELS-CHK-103			Linear Static	PP	1,
ELS-CHK-103			Linear Static	CM-TUBERIA	1,
ELS-CHK-103			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-103			Linear Static	SCU	0,
ELS-CHK-103	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-103			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-103	Linear Add	No	Linear Static	VV	0,
ELS-CHK-103			Linear Static	VLSSC	1,
ELS-CHK-103			Linear Static	VLCSC	0,
ELS-CHK-103			Linear Static	TU-DIL	0,6
ELS-CHK-103			Linear Static	TU-CON	0,
ELS-CHK-103			Linear Static	GRA-HEAT	0,
ELS-CHK-103			Linear Static	GRA-COOL	0,45
ELS-CHK-104			Linear Static	PP	1,
ELS-CHK-104			Linear Static	CM-TUBERIA	1,
ELS-CHK-104			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-104	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-104			Linear Static	VTSSC	0,
ELS-CHK-104			Linear Static	VTSCC	0,
ELS-CHK-104			Linear Static	VV	0,
ELS-CHK-104			Linear Static	VLSSC	1,
ELS-CHK-104			Linear Static	VLCSC	0,
ELS-CHK-104			Linear Static	TU-DIL	0,
ELS-CHK-104			Linear Static	TU-CON	0,6
ELS-CHK-104			Linear Static	GRA-HEAT	0,
ELS-CHK-104			Linear Static	GRA-COOL	0,45
ELS-CHK-105	Linear Add	No	Linear Static	PP	1,
ELS-CHK-105			Linear Static	CM-TUBERIA	1,
ELS-CHK-105			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-105			Linear Static	SCU	0,4
ELS-CHK-105			Linear Static	VTSSC	0,
ELS-CHK-105			Linear Static	VTSCC	0,
ELS-CHK-105			Linear Static	VV	0,
ELS-CHK-105			Linear Static	VLSSC	0,
ELS-CHK-105			Linear Static	VLCSC	1,
ELS-CHK-105			Linear Static	TU-DIL	0,21
ELS-CHK-105	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-105			Linear Static	GRA-HEAT	0,6
ELS-CHK-105			Linear Static	GRA-COOL	0,
ELS-CHK-106			Linear Static	PP	1,
ELS-CHK-106			Linear Static	CM-TUBERIA	1,
ELS-CHK-106			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-106			Linear Static	SCU	0,4
ELS-CHK-106			Linear Static	VTSSC	0,
ELS-CHK-106			Linear Static	VTSCC	0,
ELS-CHK-106			Linear Static	VV	0,
ELS-CHK-106	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-106			Linear Static	VLCSC	1,
ELS-CHK-106			Linear Static	TU-DIL	0,
ELS-CHK-106			Linear Static	TU-CON	0,21
ELS-CHK-106			Linear Static	GRA-HEAT	0,6
ELS-CHK-106			Linear Static	GRA-COOL	0,
ELS-CHK-107			Linear Static	PP	1,
ELS-CHK-107			Linear Static	CM-TUBERIA	1,
ELS-CHK-107			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-107			Linear Static	SCU	0,4
ELS-CHK-107	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-107			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-107	Linear Add	No	Linear Static	VV	0,
ELS-CHK-107			Linear Static	VLSSC	0,
ELS-CHK-107			Linear Static	VLSC	1,
ELS-CHK-107			Linear Static	TU-DIL	0,21
ELS-CHK-107			Linear Static	TU-CON	0,
ELS-CHK-107			Linear Static	GRA-HEAT	0,
ELS-CHK-107			Linear Static	GRA-COOL	0,6
ELS-CHK-108			Linear Static	PP	1,
ELS-CHK-108			Linear Static	CM-TUBERIA	1,
ELS-CHK-108			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-108	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-108			Linear Static	VTSSC	0,
ELS-CHK-108			Linear Static	VTSC	0,
ELS-CHK-108			Linear Static	VV	0,
ELS-CHK-108			Linear Static	VLSSC	0,
ELS-CHK-108			Linear Static	VLSC	1,
ELS-CHK-108			Linear Static	TU-DIL	0,
ELS-CHK-108			Linear Static	TU-CON	0,21
ELS-CHK-108			Linear Static	GRA-HEAT	0,
ELS-CHK-108			Linear Static	GRA-COOL	0,6
ELS-CHK-109	Linear Add	No	Linear Static	PP	1,
ELS-CHK-109			Linear Static	CM-TUBERIA	1,
ELS-CHK-109			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-109			Linear Static	SCU	0,4
ELS-CHK-109			Linear Static	VTSSC	0,
ELS-CHK-109			Linear Static	VTSC	0,
ELS-CHK-109			Linear Static	VV	0,
ELS-CHK-109			Linear Static	VLSSC	0,
ELS-CHK-109			Linear Static	VLSC	1,
ELS-CHK-109			Linear Static	TU-DIL	0,6
ELS-CHK-109	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-109			Linear Static	GRA-HEAT	0,45
ELS-CHK-109			Linear Static	GRA-COOL	0,
ELS-CHK-110			Linear Static	PP	1,
ELS-CHK-110			Linear Static	CM-TUBERIA	1,
ELS-CHK-110			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-110			Linear Static	SCU	0,4
ELS-CHK-110			Linear Static	VTSSC	0,
ELS-CHK-110			Linear Static	VTSC	0,
ELS-CHK-110			Linear Static	VV	0,
ELS-CHK-110	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-110			Linear Static	VLSC	1,
ELS-CHK-110			Linear Static	TU-DIL	0,
ELS-CHK-110			Linear Static	TU-CON	0,6
ELS-CHK-110			Linear Static	GRA-HEAT	0,45
ELS-CHK-110			Linear Static	GRA-COOL	0,
ELS-CHK-111			Linear Static	PP	1,
ELS-CHK-111			Linear Static	CM-TUBERIA	1,
ELS-CHK-111			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-111			Linear Static	SCU	0,4
ELS-CHK-111	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-111			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-111	Linear Add	No	Linear Static	VV	0,
ELS-CHK-111			Linear Static	VLSSC	0,
ELS-CHK-111			Linear Static	VLCSC	1,
ELS-CHK-111			Linear Static	TU-DIL	0,6
ELS-CHK-111			Linear Static	TU-CON	0,
ELS-CHK-111			Linear Static	GRA-HEAT	0,
ELS-CHK-111			Linear Static	GRA-COOL	0,45
ELS-CHK-112			Linear Static	PP	1,
ELS-CHK-112			Linear Static	CM-TUBERIA	1,
ELS-CHK-112			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-112	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-112			Linear Static	VTSSC	0,
ELS-CHK-112			Linear Static	VTSCC	0,
ELS-CHK-112			Linear Static	VV	0,
ELS-CHK-112			Linear Static	VLSSC	0,
ELS-CHK-112			Linear Static	VLCSC	1,
ELS-CHK-112			Linear Static	TU-DIL	0,
ELS-CHK-112			Linear Static	TU-CON	0,6
ELS-CHK-112			Linear Static	GRA-HEAT	0,
ELS-CHK-112			Linear Static	GRA-COOL	0,45
ELS-CHK-113	Linear Add	No	Linear Static	PP	1,
ELS-CHK-113			Linear Static	CM-TUBERIA	1,
ELS-CHK-113			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-113			Linear Static	SCU	0,4
ELS-CHK-113			Linear Static	VTSSC	0,
ELS-CHK-113			Linear Static	VTSCC	0,
ELS-CHK-113			Linear Static	VV	0,
ELS-CHK-113			Linear Static	VLSSC	0,
ELS-CHK-113			Linear Static	VLCSC	0,
ELS-CHK-113			Linear Static	TU-DIL	0,35
ELS-CHK-113	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-113			Linear Static	GRA-HEAT	1,
ELS-CHK-113			Linear Static	GRA-COOL	0,
ELS-CHK-114			Linear Static	PP	1,
ELS-CHK-114			Linear Static	CM-TUBERIA	1,
ELS-CHK-114			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-114			Linear Static	SCU	0,4
ELS-CHK-114			Linear Static	VTSSC	0,
ELS-CHK-114			Linear Static	VTSCC	0,
ELS-CHK-114			Linear Static	VV	0,
ELS-CHK-114	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-114			Linear Static	VLCSC	0,
ELS-CHK-114			Linear Static	TU-DIL	0,
ELS-CHK-114			Linear Static	TU-CON	0,35
ELS-CHK-114			Linear Static	GRA-HEAT	1,
ELS-CHK-114			Linear Static	GRA-COOL	0,
ELS-CHK-115			Linear Static	PP	1,
ELS-CHK-115			Linear Static	CM-TUBERIA	1,
ELS-CHK-115			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-115			Linear Static	SCU	0,4
ELS-CHK-115	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-115			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-115	Linear Add	No	Linear Static	VV	0,
ELS-CHK-115			Linear Static	VLSSC	0,
ELS-CHK-115			Linear Static	VLSCC	0,
ELS-CHK-115			Linear Static	TU-DIL	0,35
ELS-CHK-115			Linear Static	TU-CON	0,
ELS-CHK-115			Linear Static	GRA-HEAT	0,
ELS-CHK-115			Linear Static	GRA-COOL	1,
ELS-CHK-116			Linear Static	PP	1,
ELS-CHK-116			Linear Static	CM-TUBERIA	1,
ELS-CHK-116			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-116	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-116			Linear Static	VTSSC	0,
ELS-CHK-116			Linear Static	VTSCC	0,
ELS-CHK-116			Linear Static	VV	0,
ELS-CHK-116			Linear Static	VLSSC	0,
ELS-CHK-116			Linear Static	VLSCC	0,
ELS-CHK-116			Linear Static	TU-DIL	0,
ELS-CHK-116			Linear Static	TU-CON	0,35
ELS-CHK-116			Linear Static	GRA-HEAT	0,
ELS-CHK-116			Linear Static	GRA-COOL	1,
ELS-CHK-117	Linear Add	No	Linear Static	PP	1,
ELS-CHK-117			Linear Static	CM-TUBERIA	1,
ELS-CHK-117			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-117			Linear Static	SCU	0,4
ELS-CHK-117			Linear Static	VTSSC	0,
ELS-CHK-117			Linear Static	VTSCC	0,
ELS-CHK-117			Linear Static	VV	0,
ELS-CHK-117			Linear Static	VLSSC	0,
ELS-CHK-117			Linear Static	VLSCC	0,
ELS-CHK-117			Linear Static	TU-DIL	1,
ELS-CHK-117	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-117			Linear Static	GRA-HEAT	0,75
ELS-CHK-117			Linear Static	GRA-COOL	0,
ELS-CHK-118			Linear Static	PP	1,
ELS-CHK-118			Linear Static	CM-TUBERIA	1,
ELS-CHK-118			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-118			Linear Static	SCU	0,4
ELS-CHK-118			Linear Static	VTSSC	0,
ELS-CHK-118			Linear Static	VTSCC	0,
ELS-CHK-118			Linear Static	VV	0,
ELS-CHK-118	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-118			Linear Static	VLSCC	0,
ELS-CHK-118			Linear Static	TU-DIL	0,
ELS-CHK-118			Linear Static	TU-CON	1,
ELS-CHK-118			Linear Static	GRA-HEAT	0,75
ELS-CHK-118			Linear Static	GRA-COOL	0,
ELS-CHK-119			Linear Static	PP	1,
ELS-CHK-119			Linear Static	CM-TUBERIA	1,
ELS-CHK-119			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-119			Linear Static	SCU	0,4
ELS-CHK-119	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-119			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-119	Linear Add	No	Linear Static	VV	0,
ELS-CHK-119			Linear Static	VLSSC	0,
ELS-CHK-119			Linear Static	VLCSC	0,
ELS-CHK-119			Linear Static	TU-DIL	1,
ELS-CHK-119			Linear Static	TU-CON	0,
ELS-CHK-119			Linear Static	GRA-HEAT	0,
ELS-CHK-119			Linear Static	GRA-COOL	0,75
ELS-CHK-120			Linear Static	PP	1,
ELS-CHK-120			Linear Static	CM-TUBERIA	1,
ELS-CHK-120			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-120	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-120			Linear Static	VTSSC	0,
ELS-CHK-120			Linear Static	VTSCC	0,
ELS-CHK-120			Linear Static	VV	0,
ELS-CHK-120			Linear Static	VLSSC	0,
ELS-CHK-120			Linear Static	VLCSC	0,
ELS-CHK-120			Linear Static	TU-DIL	0,
ELS-CHK-120			Linear Static	TU-CON	1,
ELS-CHK-120			Linear Static	GRA-HEAT	0,
ELS-CHK-120			Linear Static	GRA-COOL	0,75
ELS-CHK-121	Linear Add	No	Linear Static	PP	1,
ELS-CHK-121			Linear Static	CM-TUBERIA	1,
ELS-CHK-121			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-121			Linear Static	SCU	0,4
ELS-CHK-121			Linear Static	VTSSC	0,
ELS-CHK-121			Linear Static	VTSCC	0,3
ELS-CHK-121			Linear Static	VV	0,
ELS-CHK-121			Linear Static	VLSSC	0,
ELS-CHK-121			Linear Static	VLCSC	0,
ELS-CHK-121			Linear Static	TU-DIL	0,35
ELS-CHK-121	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-121			Linear Static	GRA-HEAT	1,
ELS-CHK-121			Linear Static	GRA-COOL	0,
ELS-CHK-122			Linear Static	PP	1,
ELS-CHK-122			Linear Static	CM-TUBERIA	1,
ELS-CHK-122			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-122			Linear Static	SCU	0,4
ELS-CHK-122			Linear Static	VTSSC	0,
ELS-CHK-122			Linear Static	VTSCC	0,3
ELS-CHK-122			Linear Static	VV	0,
ELS-CHK-122	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-122			Linear Static	VLCSC	0,
ELS-CHK-122			Linear Static	TU-DIL	0,
ELS-CHK-122			Linear Static	TU-CON	0,35
ELS-CHK-122			Linear Static	GRA-HEAT	1,
ELS-CHK-122			Linear Static	GRA-COOL	0,
ELS-CHK-123			Linear Static	PP	1,
ELS-CHK-123			Linear Static	CM-TUBERIA	1,
ELS-CHK-123			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-123			Linear Static	SCU	0,4
ELS-CHK-123	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-123			Linear Static	VTSCC	0,3

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-123	Linear Add	No	Linear Static	VV	0,
ELS-CHK-123			Linear Static	VLSSC	0,
ELS-CHK-123			Linear Static	VLSCC	0,
ELS-CHK-123			Linear Static	TU-DIL	0,35
ELS-CHK-123			Linear Static	TU-CON	0,
ELS-CHK-123			Linear Static	GRA-HEAT	0,
ELS-CHK-123			Linear Static	GRA-COOL	1,
ELS-CHK-124			Linear Static	PP	1,
ELS-CHK-124			Linear Static	CM-TUBERIA	1,
ELS-CHK-124			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-124	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-124			Linear Static	VTSSC	0,
ELS-CHK-124			Linear Static	VTSCC	0,3
ELS-CHK-124			Linear Static	VV	0,
ELS-CHK-124			Linear Static	VLSSC	0,
ELS-CHK-124			Linear Static	VLSCC	0,
ELS-CHK-124			Linear Static	TU-DIL	0,
ELS-CHK-124			Linear Static	TU-CON	0,35
ELS-CHK-124			Linear Static	GRA-HEAT	0,
ELS-CHK-124			Linear Static	GRA-COOL	1,
ELS-CHK-125	Linear Add	No	Linear Static	PP	1,
ELS-CHK-125			Linear Static	CM-TUBERIA	1,
ELS-CHK-125			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-125			Linear Static	SCU	0,4
ELS-CHK-125			Linear Static	VTSSC	0,
ELS-CHK-125			Linear Static	VTSCC	0,3
ELS-CHK-125			Linear Static	VV	0,
ELS-CHK-125			Linear Static	VLSSC	0,
ELS-CHK-125			Linear Static	VLSCC	0,
ELS-CHK-125			Linear Static	TU-DIL	1,
ELS-CHK-125	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-125			Linear Static	GRA-HEAT	0,75
ELS-CHK-125			Linear Static	GRA-COOL	0,
ELS-CHK-126			Linear Static	PP	1,
ELS-CHK-126			Linear Static	CM-TUBERIA	1,
ELS-CHK-126			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-126			Linear Static	SCU	0,4
ELS-CHK-126			Linear Static	VTSSC	0,
ELS-CHK-126			Linear Static	VTSCC	0,3
ELS-CHK-126			Linear Static	VV	0,
ELS-CHK-126	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-126			Linear Static	VLSCC	0,
ELS-CHK-126			Linear Static	TU-DIL	0,
ELS-CHK-126			Linear Static	TU-CON	1,
ELS-CHK-126			Linear Static	GRA-HEAT	0,75
ELS-CHK-126			Linear Static	GRA-COOL	0,
ELS-CHK-127			Linear Static	PP	1,
ELS-CHK-127			Linear Static	CM-TUBERIA	1,
ELS-CHK-127			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-127			Linear Static	SCU	0,4
ELS-CHK-127			Linear Static	VTSSC	0,
ELS-CHK-127			Linear Static	VTSCC	0,3

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-127	Linear Add	No	Linear Static	VV	0,
ELS-CHK-127			Linear Static	VLSSC	0,
ELS-CHK-127			Linear Static	VLCSC	0,
ELS-CHK-127			Linear Static	TU-DIL	1,
ELS-CHK-127			Linear Static	TU-CON	0,
ELS-CHK-127			Linear Static	GRA-HEAT	0,
ELS-CHK-127			Linear Static	GRA-COOL	0,75
ELS-CHK-128			Linear Static	PP	1,
ELS-CHK-128			Linear Static	CM-TUBERIA	1,
ELS-CHK-128			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-128	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-128			Linear Static	VTSSC	0,
ELS-CHK-128			Linear Static	VTSCC	0,3
ELS-CHK-128			Linear Static	VV	0,
ELS-CHK-128			Linear Static	VLSSC	0,
ELS-CHK-128			Linear Static	VLCSC	0,
ELS-CHK-128			Linear Static	TU-DIL	0,
ELS-CHK-128			Linear Static	TU-CON	1,
ELS-CHK-128			Linear Static	GRA-HEAT	0,
ELS-CHK-128			Linear Static	GRA-COOL	0,75
ELS-CHK-129	Linear Add	No	Linear Static	PP	1,
ELS-CHK-129			Linear Static	CM-TUBERIA	1,
ELS-CHK-129			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-129			Linear Static	SCU	0,4
ELS-CHK-129			Linear Static	VTSSC	0,
ELS-CHK-129			Linear Static	VTSCC	0,3
ELS-CHK-129			Linear Static	VV	0,3
ELS-CHK-129			Linear Static	VLSSC	0,
ELS-CHK-129			Linear Static	VLCSC	0,
ELS-CHK-129			Linear Static	TU-DIL	0,35
ELS-CHK-129	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-129			Linear Static	GRA-HEAT	1,
ELS-CHK-129			Linear Static	GRA-COOL	0,
ELS-CHK-130			Linear Static	PP	1,
ELS-CHK-130			Linear Static	CM-TUBERIA	1,
ELS-CHK-130			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-130			Linear Static	SCU	0,4
ELS-CHK-130			Linear Static	VTSSC	0,
ELS-CHK-130			Linear Static	VTSCC	0,3
ELS-CHK-130			Linear Static	VV	0,3
ELS-CHK-130	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-130			Linear Static	VLCSC	0,
ELS-CHK-130			Linear Static	TU-DIL	0,
ELS-CHK-130			Linear Static	TU-CON	0,35
ELS-CHK-130			Linear Static	GRA-HEAT	1,
ELS-CHK-130			Linear Static	GRA-COOL	0,
ELS-CHK-131			Linear Static	PP	1,
ELS-CHK-131			Linear Static	CM-TUBERIA	1,
ELS-CHK-131			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-131			Linear Static	SCU	0,4
ELS-CHK-131	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-131			Linear Static	VTSCC	0,3

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-131	Linear Add	No	Linear Static	VV	0,3
ELS-CHK-131			Linear Static	VLSSC	0,
ELS-CHK-131			Linear Static	VLCSC	0,
ELS-CHK-131			Linear Static	TU-DIL	0,35
ELS-CHK-131			Linear Static	TU-CON	0,
ELS-CHK-131			Linear Static	GRA-HEAT	0,
ELS-CHK-131			Linear Static	GRA-COOL	1,
ELS-CHK-132			Linear Static	PP	1,
ELS-CHK-132			Linear Static	CM-TUBERIA	1,
ELS-CHK-132			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-132	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-132			Linear Static	VTSSC	0,
ELS-CHK-132			Linear Static	VTSCC	0,3
ELS-CHK-132			Linear Static	VV	0,3
ELS-CHK-132			Linear Static	VLSSC	0,
ELS-CHK-132			Linear Static	VLCSC	0,
ELS-CHK-132			Linear Static	TU-DIL	0,
ELS-CHK-132			Linear Static	TU-CON	0,35
ELS-CHK-132			Linear Static	GRA-HEAT	0,
ELS-CHK-132			Linear Static	GRA-COOL	1,
ELS-CHK-133	Linear Add	No	Linear Static	PP	1,
ELS-CHK-133			Linear Static	CM-TUBERIA	1,
ELS-CHK-133			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-133			Linear Static	SCU	0,4
ELS-CHK-133			Linear Static	VTSSC	0,
ELS-CHK-133			Linear Static	VTSCC	0,3
ELS-CHK-133			Linear Static	VV	0,3
ELS-CHK-133			Linear Static	VLSSC	0,
ELS-CHK-133			Linear Static	VLCSC	0,
ELS-CHK-133			Linear Static	TU-DIL	1,
ELS-CHK-133	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-133			Linear Static	GRA-HEAT	0,75
ELS-CHK-133			Linear Static	GRA-COOL	0,
ELS-CHK-134			Linear Static	PP	1,
ELS-CHK-134			Linear Static	CM-TUBERIA	1,
ELS-CHK-134			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-134			Linear Static	SCU	0,4
ELS-CHK-134			Linear Static	VTSSC	0,
ELS-CHK-134			Linear Static	VTSCC	0,3
ELS-CHK-134			Linear Static	VV	0,3
ELS-CHK-134	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-134			Linear Static	VLCSC	0,
ELS-CHK-134			Linear Static	TU-DIL	0,
ELS-CHK-134			Linear Static	TU-CON	1,
ELS-CHK-134			Linear Static	GRA-HEAT	0,75
ELS-CHK-134			Linear Static	GRA-COOL	0,
ELS-CHK-135			Linear Static	PP	1,
ELS-CHK-135			Linear Static	CM-TUBERIA	1,
ELS-CHK-135			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-135			Linear Static	SCU	0,4
ELS-CHK-135			Linear Static	VTSSC	0,
ELS-CHK-135			Linear Static	VTSCC	0,3

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-135	Linear Add	No	Linear Static	VV	0,3
ELS-CHK-135			Linear Static	VLSSC	0,
ELS-CHK-135			Linear Static	VLCSC	0,
ELS-CHK-135			Linear Static	TU-DIL	1,
ELS-CHK-135			Linear Static	TU-CON	0,
ELS-CHK-135			Linear Static	GRA-HEAT	0,
ELS-CHK-135			Linear Static	GRA-COOL	0,75
ELS-CHK-136			Linear Static	PP	1,
ELS-CHK-136			Linear Static	CM-TUBERIA	1,
ELS-CHK-136			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-136	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-136			Linear Static	VTSSC	0,
ELS-CHK-136			Linear Static	VTSCC	0,3
ELS-CHK-136			Linear Static	VV	0,3
ELS-CHK-136			Linear Static	VLSSC	0,
ELS-CHK-136			Linear Static	VLCSC	0,
ELS-CHK-136			Linear Static	TU-DIL	0,
ELS-CHK-136			Linear Static	TU-CON	1,
ELS-CHK-136			Linear Static	GRA-HEAT	0,
ELS-CHK-136			Linear Static	GRA-COOL	0,75
ELS-CHK-137	Linear Add	No	Linear Static	PP	1,
ELS-CHK-137			Linear Static	CM-TUBERIA	1,
ELS-CHK-137			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-137			Linear Static	SCU	0,
ELS-CHK-137			Linear Static	VTSSC	0,3
ELS-CHK-137			Linear Static	VTSCC	0,
ELS-CHK-137			Linear Static	VV	0,
ELS-CHK-137			Linear Static	VLSSC	0,
ELS-CHK-137			Linear Static	VLCSC	0,
ELS-CHK-137			Linear Static	TU-DIL	0,35
ELS-CHK-137	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-137			Linear Static	GRA-HEAT	1,
ELS-CHK-137			Linear Static	GRA-COOL	0,
ELS-CHK-138			Linear Static	PP	1,
ELS-CHK-138			Linear Static	CM-TUBERIA	1,
ELS-CHK-138			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-138			Linear Static	SCU	0,
ELS-CHK-138			Linear Static	VTSSC	0,3
ELS-CHK-138			Linear Static	VTSCC	0,
ELS-CHK-138			Linear Static	VV	0,
ELS-CHK-138	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-138			Linear Static	VLCSC	0,
ELS-CHK-138			Linear Static	TU-DIL	0,
ELS-CHK-138			Linear Static	TU-CON	0,35
ELS-CHK-138			Linear Static	GRA-HEAT	1,
ELS-CHK-138			Linear Static	GRA-COOL	0,
ELS-CHK-139			Linear Static	PP	1,
ELS-CHK-139			Linear Static	CM-TUBERIA	1,
ELS-CHK-139			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-139			Linear Static	SCU	0,
ELS-CHK-139	Linear Add	No	Linear Static	VTSSC	0,3
ELS-CHK-139			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-139	Linear Add	No	Linear Static	VV	0,
ELS-CHK-139			Linear Static	VLSSC	0,
ELS-CHK-139			Linear Static	VLSCC	0,
ELS-CHK-139			Linear Static	TU-DIL	0,35
ELS-CHK-139			Linear Static	TU-CON	0,
ELS-CHK-139			Linear Static	GRA-HEAT	0,
ELS-CHK-139			Linear Static	GRA-COOL	1,
ELS-CHK-140			Linear Static	PP	1,
ELS-CHK-140			Linear Static	CM-TUBERIA	1,
ELS-CHK-140			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-140	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-140			Linear Static	VTSSC	0,3
ELS-CHK-140			Linear Static	VTSCC	0,
ELS-CHK-140			Linear Static	VV	0,
ELS-CHK-140			Linear Static	VLSSC	0,
ELS-CHK-140			Linear Static	VLSCC	0,
ELS-CHK-140			Linear Static	TU-DIL	0,
ELS-CHK-140			Linear Static	TU-CON	0,35
ELS-CHK-140			Linear Static	GRA-HEAT	0,
ELS-CHK-140			Linear Static	GRA-COOL	1,
ELS-CHK-141	Linear Add	No	Linear Static	PP	1,
ELS-CHK-141			Linear Static	CM-TUBERIA	1,
ELS-CHK-141			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-141			Linear Static	SCU	0,
ELS-CHK-141			Linear Static	VTSSC	0,3
ELS-CHK-141			Linear Static	VTSCC	0,
ELS-CHK-141			Linear Static	VV	0,
ELS-CHK-141			Linear Static	VLSSC	0,
ELS-CHK-141			Linear Static	VLSCC	0,
ELS-CHK-141			Linear Static	TU-DIL	1,
ELS-CHK-141	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-141			Linear Static	GRA-HEAT	0,75
ELS-CHK-141			Linear Static	GRA-COOL	0,
ELS-CHK-142			Linear Static	PP	1,
ELS-CHK-142			Linear Static	CM-TUBERIA	1,
ELS-CHK-142			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-142			Linear Static	SCU	0,
ELS-CHK-142			Linear Static	VTSSC	0,3
ELS-CHK-142			Linear Static	VTSCC	0,
ELS-CHK-142			Linear Static	VV	0,
ELS-CHK-142	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-142			Linear Static	VLSCC	0,
ELS-CHK-142			Linear Static	TU-DIL	0,
ELS-CHK-142			Linear Static	TU-CON	1,
ELS-CHK-142			Linear Static	GRA-HEAT	0,75
ELS-CHK-142			Linear Static	GRA-COOL	0,
ELS-CHK-143			Linear Static	PP	1,
ELS-CHK-143			Linear Static	CM-TUBERIA	1,
ELS-CHK-143			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-143			Linear Static	SCU	0,
ELS-CHK-143	Linear Add	No	Linear Static	VTSSC	0,3
ELS-CHK-143			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-143	Linear Add	No	Linear Static	VV	0,
ELS-CHK-143			Linear Static	VLSSC	0,
ELS-CHK-143			Linear Static	VLCSC	0,
ELS-CHK-143			Linear Static	TU-DIL	1,
ELS-CHK-143			Linear Static	TU-CON	0,
ELS-CHK-143			Linear Static	GRA-HEAT	0,
ELS-CHK-143			Linear Static	GRA-COOL	0,75
ELS-CHK-144			Linear Static	PP	1,
ELS-CHK-144			Linear Static	CM-TUBERIA	1,
ELS-CHK-144			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-144	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-144			Linear Static	VTSSC	0,3
ELS-CHK-144			Linear Static	VTSCC	0,
ELS-CHK-144			Linear Static	VV	0,
ELS-CHK-144			Linear Static	VLSSC	0,
ELS-CHK-144			Linear Static	VLCSC	0,
ELS-CHK-144			Linear Static	TU-DIL	0,
ELS-CHK-144			Linear Static	TU-CON	1,
ELS-CHK-144			Linear Static	GRA-HEAT	0,
ELS-CHK-144			Linear Static	GRA-COOL	0,75
ELS-CHK-145	Linear Add	No	Linear Static	PP	1,
ELS-CHK-145			Linear Static	CM-TUBERIA	1,
ELS-CHK-145			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-145			Linear Static	SCU	0,
ELS-CHK-145			Linear Static	VTSSC	0,3
ELS-CHK-145			Linear Static	VTSCC	0,
ELS-CHK-145			Linear Static	VV	0,3
ELS-CHK-145			Linear Static	VLSSC	0,
ELS-CHK-145			Linear Static	VLCSC	0,
ELS-CHK-145			Linear Static	TU-DIL	0,35
ELS-CHK-145	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-145			Linear Static	GRA-HEAT	1,
ELS-CHK-145			Linear Static	GRA-COOL	0,
ELS-CHK-146			Linear Static	PP	1,
ELS-CHK-146			Linear Static	CM-TUBERIA	1,
ELS-CHK-146			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-146			Linear Static	SCU	0,
ELS-CHK-146			Linear Static	VTSSC	0,3
ELS-CHK-146			Linear Static	VTSCC	0,
ELS-CHK-146			Linear Static	VV	0,3
ELS-CHK-146	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-146			Linear Static	VLCSC	0,
ELS-CHK-146			Linear Static	TU-DIL	0,
ELS-CHK-146			Linear Static	TU-CON	0,35
ELS-CHK-146			Linear Static	GRA-HEAT	1,
ELS-CHK-146			Linear Static	GRA-COOL	0,
ELS-CHK-147			Linear Static	PP	1,
ELS-CHK-147			Linear Static	CM-TUBERIA	1,
ELS-CHK-147			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-147			Linear Static	SCU	0,
ELS-CHK-147	Linear Add	No	Linear Static	VTSSC	0,3
ELS-CHK-147			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-147	Linear Add	No	Linear Static	VV	0,3
ELS-CHK-147			Linear Static	VLSSC	0,
ELS-CHK-147			Linear Static	VLCSC	0,
ELS-CHK-147			Linear Static	TU-DIL	0,35
ELS-CHK-147			Linear Static	TU-CON	0,
ELS-CHK-147			Linear Static	GRA-HEAT	0,
ELS-CHK-147			Linear Static	GRA-COOL	1,
ELS-CHK-148			Linear Static	PP	1,
ELS-CHK-148			Linear Static	CM-TUBERIA	1,
ELS-CHK-148			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-148	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-148			Linear Static	VTSSC	0,3
ELS-CHK-148			Linear Static	VTSCSC	0,
ELS-CHK-148			Linear Static	VV	0,3
ELS-CHK-148			Linear Static	VLSSC	0,
ELS-CHK-148			Linear Static	VLCSC	0,
ELS-CHK-148			Linear Static	TU-DIL	0,
ELS-CHK-148			Linear Static	TU-CON	0,35
ELS-CHK-148			Linear Static	GRA-HEAT	0,
ELS-CHK-148			Linear Static	GRA-COOL	1,
ELS-CHK-149	Linear Add	No	Linear Static	PP	1,
ELS-CHK-149			Linear Static	CM-TUBERIA	1,
ELS-CHK-149			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-149			Linear Static	SCU	0,
ELS-CHK-149			Linear Static	VTSSC	0,3
ELS-CHK-149			Linear Static	VTSCSC	0,
ELS-CHK-149			Linear Static	VV	0,3
ELS-CHK-149			Linear Static	VLSSC	0,
ELS-CHK-149			Linear Static	VLCSC	0,
ELS-CHK-149			Linear Static	TU-DIL	1,
ELS-CHK-149	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-149			Linear Static	GRA-HEAT	0,75
ELS-CHK-149			Linear Static	GRA-COOL	0,
ELS-CHK-150			Linear Static	PP	1,
ELS-CHK-150			Linear Static	CM-TUBERIA	1,
ELS-CHK-150			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-150			Linear Static	SCU	0,
ELS-CHK-150			Linear Static	VTSSC	0,3
ELS-CHK-150			Linear Static	VTSCSC	0,
ELS-CHK-150			Linear Static	VV	0,3
ELS-CHK-150	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-150			Linear Static	VLCSC	0,
ELS-CHK-150			Linear Static	TU-DIL	0,
ELS-CHK-150			Linear Static	TU-CON	1,
ELS-CHK-150			Linear Static	GRA-HEAT	0,75
ELS-CHK-150			Linear Static	GRA-COOL	0,
ELS-CHK-151			Linear Static	PP	1,
ELS-CHK-151			Linear Static	CM-TUBERIA	1,
ELS-CHK-151			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-151			Linear Static	SCU	0,
ELS-CHK-151	Linear Add	No	Linear Static	VTSSC	0,3
ELS-CHK-151			Linear Static	VTSCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-151	Linear Add	No	Linear Static	VV	0,3
ELS-CHK-151			Linear Static	VLSSC	0,
ELS-CHK-151			Linear Static	VLCSC	0,
ELS-CHK-151			Linear Static	TU-DIL	1,
ELS-CHK-151			Linear Static	TU-CON	0,
ELS-CHK-151			Linear Static	GRA-HEAT	0,
ELS-CHK-151			Linear Static	GRA-COOL	0,75
ELS-CHK-152			Linear Static	PP	1,
ELS-CHK-152			Linear Static	CM-TUBERIA	1,
ELS-CHK-152			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-152	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-152			Linear Static	VTSSC	0,3
ELS-CHK-152			Linear Static	VTSCC	0,
ELS-CHK-152			Linear Static	VV	0,3
ELS-CHK-152			Linear Static	VLSSC	0,
ELS-CHK-152			Linear Static	VLCSC	0,
ELS-CHK-152			Linear Static	TU-DIL	0,
ELS-CHK-152			Linear Static	TU-CON	1,
ELS-CHK-152			Linear Static	GRA-HEAT	0,
ELS-CHK-152			Linear Static	GRA-COOL	0,75
ELS-CHK-153	Linear Add	No	Linear Static	PP	1,
ELS-CHK-153			Linear Static	CM-TUBERIA	1,
ELS-CHK-153			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-153			Linear Static	SCU	0,
ELS-CHK-153			Linear Static	VTSSC	0,
ELS-CHK-153			Linear Static	VTSCC	0,
ELS-CHK-153			Linear Static	VV	0,
ELS-CHK-153			Linear Static	VLSSC	0,3
ELS-CHK-153			Linear Static	VLCSC	0,
ELS-CHK-153			Linear Static	TU-DIL	0,35
ELS-CHK-153	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-153			Linear Static	GRA-HEAT	1,
ELS-CHK-153			Linear Static	GRA-COOL	0,
ELS-CHK-154			Linear Static	PP	1,
ELS-CHK-154			Linear Static	CM-TUBERIA	1,
ELS-CHK-154			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-154			Linear Static	SCU	0,
ELS-CHK-154			Linear Static	VTSSC	0,
ELS-CHK-154			Linear Static	VTSCC	0,
ELS-CHK-154			Linear Static	VV	0,
ELS-CHK-154	Linear Add	No	Linear Static	VLSSC	0,3
ELS-CHK-154			Linear Static	VLCSC	0,
ELS-CHK-154			Linear Static	TU-DIL	0,
ELS-CHK-154			Linear Static	TU-CON	0,35
ELS-CHK-154			Linear Static	GRA-HEAT	1,
ELS-CHK-154			Linear Static	GRA-COOL	0,
ELS-CHK-155			Linear Static	PP	1,
ELS-CHK-155			Linear Static	CM-TUBERIA	1,
ELS-CHK-155			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-155			Linear Static	SCU	0,
ELS-CHK-155	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-155			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-155	Linear Add	No	Linear Static	VV	0,
ELS-CHK-155			Linear Static	VLSSC	0,3
ELS-CHK-155			Linear Static	VLSC	0,
ELS-CHK-155			Linear Static	TU-DIL	0,35
ELS-CHK-155			Linear Static	TU-CON	0,
ELS-CHK-155			Linear Static	GRA-HEAT	0,
ELS-CHK-155			Linear Static	GRA-COOL	1,
ELS-CHK-156			Linear Static	PP	1,
ELS-CHK-156			Linear Static	CM-TUBERIA	1,
ELS-CHK-156			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-156	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-156			Linear Static	VTSSC	0,
ELS-CHK-156			Linear Static	VTSC	0,
ELS-CHK-156			Linear Static	VV	0,
ELS-CHK-156			Linear Static	VLSSC	0,3
ELS-CHK-156			Linear Static	VLSC	0,
ELS-CHK-156			Linear Static	TU-DIL	0,
ELS-CHK-156			Linear Static	TU-CON	0,35
ELS-CHK-156			Linear Static	GRA-HEAT	0,
ELS-CHK-156			Linear Static	GRA-COOL	1,
ELS-CHK-157	Linear Add	No	Linear Static	PP	1,
ELS-CHK-157			Linear Static	CM-TUBERIA	1,
ELS-CHK-157			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-157			Linear Static	SCU	0,
ELS-CHK-157			Linear Static	VTSSC	0,
ELS-CHK-157			Linear Static	VTSC	0,
ELS-CHK-157			Linear Static	VV	0,
ELS-CHK-157			Linear Static	VLSSC	0,3
ELS-CHK-157			Linear Static	VLSC	0,
ELS-CHK-157			Linear Static	TU-DIL	1,
ELS-CHK-157	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-157			Linear Static	GRA-HEAT	0,75
ELS-CHK-157			Linear Static	GRA-COOL	0,
ELS-CHK-158			Linear Static	PP	1,
ELS-CHK-158			Linear Static	CM-TUBERIA	1,
ELS-CHK-158			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-158			Linear Static	SCU	0,
ELS-CHK-158			Linear Static	VTSSC	0,
ELS-CHK-158			Linear Static	VTSC	0,
ELS-CHK-158			Linear Static	VV	0,
ELS-CHK-158	Linear Add	No	Linear Static	VLSSC	0,3
ELS-CHK-158			Linear Static	VLSC	0,
ELS-CHK-158			Linear Static	TU-DIL	0,
ELS-CHK-158			Linear Static	TU-CON	1,
ELS-CHK-158			Linear Static	GRA-HEAT	0,75
ELS-CHK-158			Linear Static	GRA-COOL	0,
ELS-CHK-159			Linear Static	PP	1,
ELS-CHK-159			Linear Static	CM-TUBERIA	1,
ELS-CHK-159			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-159			Linear Static	SCU	0,
ELS-CHK-159	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-159			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-159	Linear Add	No	Linear Static	VV	0,
ELS-CHK-159			Linear Static	VLSSC	0,3
ELS-CHK-159			Linear Static	VLCSC	0,
ELS-CHK-159			Linear Static	TU-DIL	1,
ELS-CHK-159			Linear Static	TU-CON	0,
ELS-CHK-159			Linear Static	GRA-HEAT	0,
ELS-CHK-159			Linear Static	GRA-COOL	0,75
ELS-CHK-160			Linear Static	PP	1,
ELS-CHK-160			Linear Static	CM-TUBERIA	1,
ELS-CHK-160			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-160	Linear Add	No	Linear Static	SCU	0,
ELS-CHK-160			Linear Static	VTSSC	0,
ELS-CHK-160			Linear Static	VTSCC	0,
ELS-CHK-160			Linear Static	VV	0,
ELS-CHK-160			Linear Static	VLSSC	0,3
ELS-CHK-160			Linear Static	VLCSC	0,
ELS-CHK-160			Linear Static	TU-DIL	0,
ELS-CHK-160			Linear Static	TU-CON	1,
ELS-CHK-160			Linear Static	GRA-HEAT	0,
ELS-CHK-160			Linear Static	GRA-COOL	0,75
ELS-CHK-161	Linear Add	No	Linear Static	PP	1,
ELS-CHK-161			Linear Static	CM-TUBERIA	1,
ELS-CHK-161			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-161			Linear Static	SCU	0,4
ELS-CHK-161			Linear Static	VTSSC	0,
ELS-CHK-161			Linear Static	VTSCC	0,
ELS-CHK-161			Linear Static	VV	0,
ELS-CHK-161			Linear Static	VLSSC	0,
ELS-CHK-161			Linear Static	VLCSC	0,3
ELS-CHK-161			Linear Static	TU-DIL	0,35
ELS-CHK-161	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-161			Linear Static	GRA-HEAT	1,
ELS-CHK-161			Linear Static	GRA-COOL	0,
ELS-CHK-162			Linear Static	PP	1,
ELS-CHK-162			Linear Static	CM-TUBERIA	1,
ELS-CHK-162			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-162			Linear Static	SCU	0,4
ELS-CHK-162			Linear Static	VTSSC	0,
ELS-CHK-162			Linear Static	VTSCC	0,
ELS-CHK-162			Linear Static	VV	0,
ELS-CHK-162	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-162			Linear Static	VLCSC	0,3
ELS-CHK-162			Linear Static	TU-DIL	0,
ELS-CHK-162			Linear Static	TU-CON	0,35
ELS-CHK-162			Linear Static	GRA-HEAT	1,
ELS-CHK-162			Linear Static	GRA-COOL	0,
ELS-CHK-163			Linear Static	PP	1,
ELS-CHK-163			Linear Static	CM-TUBERIA	1,
ELS-CHK-163			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-163			Linear Static	SCU	0,4
ELS-CHK-163	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-163			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-163	Linear Add	No	Linear Static	VV	0,
ELS-CHK-163			Linear Static	VLSSC	0,
ELS-CHK-163			Linear Static	VLSC	0,3
ELS-CHK-163			Linear Static	TU-DIL	0,35
ELS-CHK-163			Linear Static	TU-CON	0,
ELS-CHK-163			Linear Static	GRA-HEAT	0,
ELS-CHK-163			Linear Static	GRA-COOL	1,
ELS-CHK-164			Linear Static	PP	1,
ELS-CHK-164			Linear Static	CM-TUBERIA	1,
ELS-CHK-164			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-164	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-164			Linear Static	VTSSC	0,
ELS-CHK-164			Linear Static	VTSC	0,
ELS-CHK-164			Linear Static	VV	0,
ELS-CHK-164			Linear Static	VLSSC	0,
ELS-CHK-164			Linear Static	VLSC	0,3
ELS-CHK-164			Linear Static	TU-DIL	0,
ELS-CHK-164			Linear Static	TU-CON	0,35
ELS-CHK-164			Linear Static	GRA-HEAT	0,
ELS-CHK-164			Linear Static	GRA-COOL	1,
ELS-CHK-165	Linear Add	No	Linear Static	PP	1,
ELS-CHK-165			Linear Static	CM-TUBERIA	1,
ELS-CHK-165			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-165			Linear Static	SCU	0,4
ELS-CHK-165			Linear Static	VTSSC	0,
ELS-CHK-165			Linear Static	VTSC	0,
ELS-CHK-165			Linear Static	VV	0,
ELS-CHK-165			Linear Static	VLSSC	0,
ELS-CHK-165			Linear Static	VLSC	0,3
ELS-CHK-165			Linear Static	TU-DIL	1,
ELS-CHK-165	Linear Add	No	Linear Static	TU-CON	0,
ELS-CHK-165			Linear Static	GRA-HEAT	0,75
ELS-CHK-165			Linear Static	GRA-COOL	0,
ELS-CHK-166			Linear Static	PP	1,
ELS-CHK-166			Linear Static	CM-TUBERIA	1,
ELS-CHK-166			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-166			Linear Static	SCU	0,4
ELS-CHK-166			Linear Static	VTSSC	0,
ELS-CHK-166			Linear Static	VTSC	0,
ELS-CHK-166			Linear Static	VV	0,
ELS-CHK-166	Linear Add	No	Linear Static	VLSSC	0,
ELS-CHK-166			Linear Static	VLSC	0,3
ELS-CHK-166			Linear Static	TU-DIL	0,
ELS-CHK-166			Linear Static	TU-CON	1,
ELS-CHK-166			Linear Static	GRA-HEAT	0,75
ELS-CHK-166			Linear Static	GRA-COOL	0,
ELS-CHK-167			Linear Static	PP	1,
ELS-CHK-167			Linear Static	CM-TUBERIA	1,
ELS-CHK-167			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CHK-167			Linear Static	SCU	0,4
ELS-CHK-167	Linear Add	No	Linear Static	VTSSC	0,
ELS-CHK-167			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CHK-167	Linear Add	No	Linear Static	VV	0,
ELS-CHK-167			Linear Static	VLSSC	0,
ELS-CHK-167			Linear Static	VLCSC	0,3
ELS-CHK-167			Linear Static	TU-DIL	1,
ELS-CHK-167			Linear Static	TU-CON	0,
ELS-CHK-167			Linear Static	GRA-HEAT	0,
ELS-CHK-167			Linear Static	GRA-COOL	0,75
ELS-CHK-168			Linear Static	PP	1,
ELS-CHK-168			Linear Static	CM-TUBERIA	1,
ELS-CHK-168			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-CHK-168	Linear Add	No	Linear Static	SCU	0,4
ELS-CHK-168			Linear Static	VTSSC	0,
ELS-CHK-168			Linear Static	VTSCC	0,
ELS-CHK-168			Linear Static	VV	0,
ELS-CHK-168			Linear Static	VLSSC	0,
ELS-CHK-168			Linear Static	VLCSC	0,3
ELS-CHK-168			Linear Static	TU-DIL	0,
ELS-CHK-168			Linear Static	TU-CON	1,
ELS-CHK-168			Linear Static	GRA-HEAT	0,
ELS-CHK-168			Linear Static	GRA-COOL	0,75
ELS-FREQ-1	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-1			Linear Static	CM-TUBERIA	1,
ELS-FREQ-1			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-1			Linear Static	SCU	0,4
ELS-FREQ-1			Linear Static	VTSSC	0,
ELS-FREQ-1			Linear Static	VTSCC	0,
ELS-FREQ-1			Linear Static	VV	0,
ELS-FREQ-1			Linear Static	VLSSC	0,
ELS-FREQ-1			Linear Static	VLCSC	0,
ELS-FREQ-1			Linear Static	TU-DIL	0,175
ELS-FREQ-1	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-1			Linear Static	GRA-HEAT	0,5
ELS-FREQ-1			Linear Static	GRA-COOL	0,
ELS-FREQ-2			Linear Static	PP	1,
ELS-FREQ-2			Linear Static	CM-TUBERIA	1,
ELS-FREQ-2			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-2			Linear Static	SCU	0,4
ELS-FREQ-2			Linear Static	VTSSC	0,
ELS-FREQ-2			Linear Static	VTSCC	0,
ELS-FREQ-2			Linear Static	VV	0,
ELS-FREQ-2	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-2			Linear Static	VLCSC	0,
ELS-FREQ-2			Linear Static	TU-DIL	0,
ELS-FREQ-2			Linear Static	TU-CON	0,175
ELS-FREQ-2			Linear Static	GRA-HEAT	0,5
ELS-FREQ-2			Linear Static	GRA-COOL	0,
ELS-FREQ-3			Linear Static	PP	1,
ELS-FREQ-3			Linear Static	CM-TUBERIA	1,
ELS-FREQ-3			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-3			Linear Static	SCU	0,4
ELS-FREQ-3	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-3			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-3	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-3			Linear Static	VLSSC	0,
ELS-FREQ-3			Linear Static	VLCS	0,
ELS-FREQ-3			Linear Static	TU-DIL	0,175
ELS-FREQ-3			Linear Static	TU-CON	0,
ELS-FREQ-3			Linear Static	GRA-HEAT	0,
ELS-FREQ-3			Linear Static	GRA-COOL	0,5
ELS-FREQ-4			Linear Static	PP	1,
ELS-FREQ-4			Linear Static	CM-TUBERIA	1,
ELS-FREQ-4			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-4	Linear Add	No	Linear Static	SCU	0,4
ELS-FREQ-4			Linear Static	VTSSC	0,
ELS-FREQ-4			Linear Static	VTCS	0,
ELS-FREQ-4			Linear Static	VV	0,
ELS-FREQ-4			Linear Static	VLSSC	0,
ELS-FREQ-4			Linear Static	VLCS	0,
ELS-FREQ-4			Linear Static	TU-DIL	0,
ELS-FREQ-4			Linear Static	TU-CON	0,175
ELS-FREQ-4			Linear Static	GRA-HEAT	0,
ELS-FREQ-4			Linear Static	GRA-COOL	0,5
ELS-FREQ-5	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-5			Linear Static	CM-TUBERIA	1,
ELS-FREQ-5			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-5			Linear Static	SCU	0,4
ELS-FREQ-5			Linear Static	VTSSC	0,
ELS-FREQ-5			Linear Static	VTCS	0,
ELS-FREQ-5			Linear Static	VV	0,
ELS-FREQ-5			Linear Static	VLSSC	0,
ELS-FREQ-5			Linear Static	VLCS	0,
ELS-FREQ-5			Linear Static	TU-DIL	0,5
ELS-FREQ-5	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-5			Linear Static	GRA-HEAT	0,375
ELS-FREQ-5			Linear Static	GRA-COOL	0,
ELS-FREQ-6			Linear Static	PP	1,
ELS-FREQ-6			Linear Static	CM-TUBERIA	1,
ELS-FREQ-6			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-6			Linear Static	SCU	0,4
ELS-FREQ-6			Linear Static	VTSSC	0,
ELS-FREQ-6			Linear Static	VTCS	0,
ELS-FREQ-6			Linear Static	VV	0,
ELS-FREQ-6	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-6			Linear Static	VLCS	0,
ELS-FREQ-6			Linear Static	TU-DIL	0,
ELS-FREQ-6			Linear Static	TU-CON	0,5
ELS-FREQ-6			Linear Static	GRA-HEAT	0,375
ELS-FREQ-6			Linear Static	GRA-COOL	0,
ELS-FREQ-7			Linear Static	PP	1,
ELS-FREQ-7			Linear Static	CM-TUBERIA	1,
ELS-FREQ-7			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-7			Linear Static	SCU	0,4
ELS-FREQ-7	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-7			Linear Static	VTCS	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-7	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-7			Linear Static	VLSSC	0,
ELS-FREQ-7			Linear Static	VLCSC	0,
ELS-FREQ-7			Linear Static	TU-DIL	0,5
ELS-FREQ-7			Linear Static	TU-CON	0,
ELS-FREQ-7			Linear Static	GRA-HEAT	0,
ELS-FREQ-7			Linear Static	GRA-COOL	0,375
ELS-FREQ-8			Linear Static	PP	1,
ELS-FREQ-8			Linear Static	CM-TUBERIA	1,
ELS-FREQ-8			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-8	Linear Add	No	Linear Static	SCU	0,4
ELS-FREQ-8			Linear Static	VTSSC	0,
ELS-FREQ-8			Linear Static	VTSCC	0,
ELS-FREQ-8			Linear Static	VV	0,
ELS-FREQ-8			Linear Static	VLSSC	0,
ELS-FREQ-8			Linear Static	VLCSC	0,
ELS-FREQ-8			Linear Static	TU-DIL	0,
ELS-FREQ-8			Linear Static	TU-CON	0,5
ELS-FREQ-8			Linear Static	GRA-HEAT	0,
ELS-FREQ-8			Linear Static	GRA-COOL	0,375
ELS-FREQ-9	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-9			Linear Static	CM-TUBERIA	1,
ELS-FREQ-9			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-9			Linear Static	SCU	0,
ELS-FREQ-9			Linear Static	VTSSC	0,
ELS-FREQ-9			Linear Static	VTSCC	0,
ELS-FREQ-9			Linear Static	VV	0,
ELS-FREQ-9			Linear Static	VLSSC	0,
ELS-FREQ-9			Linear Static	VLCSC	0,
ELS-FREQ-9			Linear Static	TU-DIL	0,175
ELS-FREQ-9	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-9			Linear Static	GRA-HEAT	0,5
ELS-FREQ-9			Linear Static	GRA-COOL	0,
ELS-FREQ-10			Linear Static	PP	1,
ELS-FREQ-10			Linear Static	CM-TUBERIA	1,
ELS-FREQ-10			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-10			Linear Static	SCU	0,
ELS-FREQ-10			Linear Static	VTSSC	0,
ELS-FREQ-10			Linear Static	VTSCC	0,
ELS-FREQ-10			Linear Static	VV	0,
ELS-FREQ-10	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-10			Linear Static	VLCSC	0,
ELS-FREQ-10			Linear Static	TU-DIL	0,
ELS-FREQ-10			Linear Static	TU-CON	0,175
ELS-FREQ-10			Linear Static	GRA-HEAT	0,5
ELS-FREQ-10			Linear Static	GRA-COOL	0,
ELS-FREQ-11			Linear Static	PP	1,
ELS-FREQ-11			Linear Static	CM-TUBERIA	1,
ELS-FREQ-11			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-11			Linear Static	SCU	0,
ELS-FREQ-11	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-11			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-11	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-11			Linear Static	VLSSC	0,
ELS-FREQ-11			Linear Static	VLSCC	0,
ELS-FREQ-11			Linear Static	TU-DIL	0,175
ELS-FREQ-11			Linear Static	TU-CON	0,
ELS-FREQ-11			Linear Static	GRA-HEAT	0,
ELS-FREQ-11			Linear Static	GRA-COOL	0,5
ELS-FREQ-12			Linear Static	PP	1,
ELS-FREQ-12			Linear Static	CM-TUBERIA	1,
ELS-FREQ-12			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-12	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-12			Linear Static	VTSSC	0,
ELS-FREQ-12			Linear Static	VTSCC	0,
ELS-FREQ-12			Linear Static	VV	0,
ELS-FREQ-12			Linear Static	VLSSC	0,
ELS-FREQ-12			Linear Static	VLSCC	0,
ELS-FREQ-12			Linear Static	TU-DIL	0,
ELS-FREQ-12			Linear Static	TU-CON	0,175
ELS-FREQ-12			Linear Static	GRA-HEAT	0,
ELS-FREQ-12			Linear Static	GRA-COOL	0,5
ELS-FREQ-13	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-13			Linear Static	CM-TUBERIA	1,
ELS-FREQ-13			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-13			Linear Static	SCU	0,
ELS-FREQ-13			Linear Static	VTSSC	0,
ELS-FREQ-13			Linear Static	VTSCC	0,
ELS-FREQ-13			Linear Static	VV	0,
ELS-FREQ-13			Linear Static	VLSSC	0,
ELS-FREQ-13			Linear Static	VLSCC	0,
ELS-FREQ-13			Linear Static	TU-DIL	0,5
ELS-FREQ-13	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-13			Linear Static	GRA-HEAT	0,375
ELS-FREQ-13			Linear Static	GRA-COOL	0,
ELS-FREQ-14			Linear Static	PP	1,
ELS-FREQ-14			Linear Static	CM-TUBERIA	1,
ELS-FREQ-14			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-14			Linear Static	SCU	0,
ELS-FREQ-14			Linear Static	VTSSC	0,
ELS-FREQ-14			Linear Static	VTSCC	0,
ELS-FREQ-14			Linear Static	VV	0,
ELS-FREQ-14	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-14			Linear Static	VLSCC	0,
ELS-FREQ-14			Linear Static	TU-DIL	0,
ELS-FREQ-14			Linear Static	TU-CON	0,5
ELS-FREQ-14			Linear Static	GRA-HEAT	0,375
ELS-FREQ-14			Linear Static	GRA-COOL	0,
ELS-FREQ-15			Linear Static	PP	1,
ELS-FREQ-15			Linear Static	CM-TUBERIA	1,
ELS-FREQ-15			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-15			Linear Static	SCU	0,
ELS-FREQ-15	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-15			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-15	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-15			Linear Static	VLSSC	0,
ELS-FREQ-15			Linear Static	VLCSC	0,
ELS-FREQ-15			Linear Static	TU-DIL	0,5
ELS-FREQ-15			Linear Static	TU-CON	0,
ELS-FREQ-15			Linear Static	GRA-HEAT	0,
ELS-FREQ-15			Linear Static	GRA-COOL	0,375
ELS-FREQ-16			Linear Static	PP	1,
ELS-FREQ-16			Linear Static	CM-TUBERIA	1,
ELS-FREQ-16			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-16	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-16			Linear Static	VTSSC	0,
ELS-FREQ-16			Linear Static	VTSCC	0,
ELS-FREQ-16			Linear Static	VV	0,
ELS-FREQ-16			Linear Static	VLSSC	0,
ELS-FREQ-16			Linear Static	VLCSC	0,
ELS-FREQ-16			Linear Static	TU-DIL	0,
ELS-FREQ-16			Linear Static	TU-CON	0,5
ELS-FREQ-16			Linear Static	GRA-HEAT	0,
ELS-FREQ-16			Linear Static	GRA-COOL	0,375
ELS-FREQ-17	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-17			Linear Static	CM-TUBERIA	1,
ELS-FREQ-17			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-17			Linear Static	SCU	0,
ELS-FREQ-17			Linear Static	VTSSC	0,
ELS-FREQ-17			Linear Static	VTSCC	0,2
ELS-FREQ-17			Linear Static	VV	0,
ELS-FREQ-17			Linear Static	VLSSC	0,
ELS-FREQ-17			Linear Static	VLCSC	0,
ELS-FREQ-17			Linear Static	TU-DIL	0,175
ELS-FREQ-17	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-17			Linear Static	GRA-HEAT	0,5
ELS-FREQ-17			Linear Static	GRA-COOL	0,
ELS-FREQ-18			Linear Static	PP	1,
ELS-FREQ-18			Linear Static	CM-TUBERIA	1,
ELS-FREQ-18			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-18			Linear Static	SCU	0,
ELS-FREQ-18			Linear Static	VTSSC	0,
ELS-FREQ-18			Linear Static	VTSCC	0,2
ELS-FREQ-18			Linear Static	VV	0,
ELS-FREQ-18	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-18			Linear Static	VLCSC	0,
ELS-FREQ-18			Linear Static	TU-DIL	0,
ELS-FREQ-18			Linear Static	TU-CON	0,175
ELS-FREQ-18			Linear Static	GRA-HEAT	0,5
ELS-FREQ-18			Linear Static	GRA-COOL	0,
ELS-FREQ-19			Linear Static	PP	1,
ELS-FREQ-19			Linear Static	CM-TUBERIA	1,
ELS-FREQ-19			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-19			Linear Static	SCU	0,
ELS-FREQ-19	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-19			Linear Static	VTSCC	0,2

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-19	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-19			Linear Static	VLSSC	0,
ELS-FREQ-19			Linear Static	VLSCC	0,
ELS-FREQ-19			Linear Static	TU-DIL	0,175
ELS-FREQ-19			Linear Static	TU-CON	0,
ELS-FREQ-19			Linear Static	GRA-HEAT	0,
ELS-FREQ-19			Linear Static	GRA-COOL	0,5
ELS-FREQ-20			Linear Static	PP	1,
ELS-FREQ-20			Linear Static	CM-TUBERIA	1,
ELS-FREQ-20			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-20	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-20			Linear Static	VTSSC	0,
ELS-FREQ-20			Linear Static	VTSCC	0,2
ELS-FREQ-20			Linear Static	VV	0,
ELS-FREQ-20			Linear Static	VLSSC	0,
ELS-FREQ-20			Linear Static	VLSCC	0,
ELS-FREQ-20			Linear Static	TU-DIL	0,
ELS-FREQ-20			Linear Static	TU-CON	0,175
ELS-FREQ-20			Linear Static	GRA-HEAT	0,
ELS-FREQ-20			Linear Static	GRA-COOL	0,5
ELS-FREQ-21	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-21			Linear Static	CM-TUBERIA	1,
ELS-FREQ-21			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-21			Linear Static	SCU	0,
ELS-FREQ-21			Linear Static	VTSSC	0,
ELS-FREQ-21			Linear Static	VTSCC	0,2
ELS-FREQ-21			Linear Static	VV	0,
ELS-FREQ-21			Linear Static	VLSSC	0,
ELS-FREQ-21			Linear Static	VLSCC	0,
ELS-FREQ-21			Linear Static	TU-DIL	0,5
ELS-FREQ-21	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-21			Linear Static	GRA-HEAT	0,375
ELS-FREQ-21			Linear Static	GRA-COOL	0,
ELS-FREQ-22			Linear Static	PP	1,
ELS-FREQ-22			Linear Static	CM-TUBERIA	1,
ELS-FREQ-22			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-22			Linear Static	SCU	0,
ELS-FREQ-22			Linear Static	VTSSC	0,
ELS-FREQ-22			Linear Static	VTSCC	0,2
ELS-FREQ-22			Linear Static	VV	0,
ELS-FREQ-22	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-22			Linear Static	VLSCC	0,
ELS-FREQ-22			Linear Static	TU-DIL	0,
ELS-FREQ-22			Linear Static	TU-CON	0,5
ELS-FREQ-22			Linear Static	GRA-HEAT	0,375
ELS-FREQ-22			Linear Static	GRA-COOL	0,
ELS-FREQ-23			Linear Static	PP	1,
ELS-FREQ-23			Linear Static	CM-TUBERIA	1,
ELS-FREQ-23			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-23			Linear Static	SCU	0,
ELS-FREQ-23	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-23			Linear Static	VTSCC	0,2

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-23	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-23			Linear Static	VLSSC	0,
ELS-FREQ-23			Linear Static	VLCSC	0,
ELS-FREQ-23			Linear Static	TU-DIL	0,5
ELS-FREQ-23			Linear Static	TU-CON	0,
ELS-FREQ-23			Linear Static	GRA-HEAT	0,
ELS-FREQ-23			Linear Static	GRA-COOL	0,375
ELS-FREQ-24			Linear Static	PP	1,
ELS-FREQ-24			Linear Static	CM-TUBERIA	1,
ELS-FREQ-24			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-24	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-24			Linear Static	VTSSC	0,
ELS-FREQ-24			Linear Static	VTSCC	0,2
ELS-FREQ-24			Linear Static	VV	0,
ELS-FREQ-24			Linear Static	VLSSC	0,
ELS-FREQ-24			Linear Static	VLCSC	0,
ELS-FREQ-24			Linear Static	TU-DIL	0,
ELS-FREQ-24			Linear Static	TU-CON	0,5
ELS-FREQ-24			Linear Static	GRA-HEAT	0,
ELS-FREQ-24			Linear Static	GRA-COOL	0,375
ELS-FREQ-25	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-25			Linear Static	CM-TUBERIA	1,
ELS-FREQ-25			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-25			Linear Static	SCU	0,
ELS-FREQ-25			Linear Static	VTSSC	0,
ELS-FREQ-25			Linear Static	VTSCC	0,2
ELS-FREQ-25			Linear Static	VV	0,2
ELS-FREQ-25			Linear Static	VLSSC	0,
ELS-FREQ-25			Linear Static	VLCSC	0,
ELS-FREQ-25			Linear Static	TU-DIL	0,175
ELS-FREQ-25	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-25			Linear Static	GRA-HEAT	0,5
ELS-FREQ-25			Linear Static	GRA-COOL	0,
ELS-FREQ-26			Linear Static	PP	1,
ELS-FREQ-26			Linear Static	CM-TUBERIA	1,
ELS-FREQ-26			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-26			Linear Static	SCU	0,
ELS-FREQ-26			Linear Static	VTSSC	0,
ELS-FREQ-26			Linear Static	VTSCC	0,2
ELS-FREQ-26			Linear Static	VV	0,2
ELS-FREQ-26	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-26			Linear Static	VLCSC	0,
ELS-FREQ-26			Linear Static	TU-DIL	0,
ELS-FREQ-26			Linear Static	TU-CON	0,175
ELS-FREQ-26			Linear Static	GRA-HEAT	0,5
ELS-FREQ-26			Linear Static	GRA-COOL	0,
ELS-FREQ-27			Linear Static	PP	1,
ELS-FREQ-27			Linear Static	CM-TUBERIA	1,
ELS-FREQ-27			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-27			Linear Static	SCU	0,
ELS-FREQ-27	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-27			Linear Static	VTSCC	0,2

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-27	Linear Add	No	Linear Static	VV	0,2
ELS-FREQ-27			Linear Static	VLSSC	0,
ELS-FREQ-27			Linear Static	VLSCC	0,
ELS-FREQ-27			Linear Static	TU-DIL	0,175
ELS-FREQ-27			Linear Static	TU-CON	0,
ELS-FREQ-27			Linear Static	GRA-HEAT	0,
ELS-FREQ-27			Linear Static	GRA-COOL	0,5
ELS-FREQ-28			Linear Static	PP	1,
ELS-FREQ-28			Linear Static	CM-TUBERIA	1,
ELS-FREQ-28			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-28	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-28			Linear Static	VTSSC	0,
ELS-FREQ-28			Linear Static	VTSCC	0,2
ELS-FREQ-28			Linear Static	VV	0,2
ELS-FREQ-28			Linear Static	VLSSC	0,
ELS-FREQ-28			Linear Static	VLSCC	0,
ELS-FREQ-28			Linear Static	TU-DIL	0,
ELS-FREQ-28			Linear Static	TU-CON	0,175
ELS-FREQ-28			Linear Static	GRA-HEAT	0,
ELS-FREQ-28			Linear Static	GRA-COOL	0,5
ELS-FREQ-29	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-29			Linear Static	CM-TUBERIA	1,
ELS-FREQ-29			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-29			Linear Static	SCU	0,
ELS-FREQ-29			Linear Static	VTSSC	0,
ELS-FREQ-29			Linear Static	VTSCC	0,2
ELS-FREQ-29			Linear Static	VV	0,2
ELS-FREQ-29			Linear Static	VLSSC	0,
ELS-FREQ-29			Linear Static	VLSCC	0,
ELS-FREQ-29			Linear Static	TU-DIL	0,5
ELS-FREQ-29	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-29			Linear Static	GRA-HEAT	0,375
ELS-FREQ-29			Linear Static	GRA-COOL	0,
ELS-FREQ-30			Linear Static	PP	1,
ELS-FREQ-30			Linear Static	CM-TUBERIA	1,
ELS-FREQ-30			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-30			Linear Static	SCU	0,
ELS-FREQ-30			Linear Static	VTSSC	0,
ELS-FREQ-30			Linear Static	VTSCC	0,2
ELS-FREQ-30			Linear Static	VV	0,2
ELS-FREQ-30	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-30			Linear Static	VLSCC	0,
ELS-FREQ-30			Linear Static	TU-DIL	0,
ELS-FREQ-30			Linear Static	TU-CON	0,5
ELS-FREQ-30			Linear Static	GRA-HEAT	0,375
ELS-FREQ-30			Linear Static	GRA-COOL	0,
ELS-FREQ-31			Linear Static	PP	1,
ELS-FREQ-31			Linear Static	CM-TUBERIA	1,
ELS-FREQ-31			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-31			Linear Static	SCU	0,
ELS-FREQ-31	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-31			Linear Static	VTSCC	0,2

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-31	Linear Add	No	Linear Static	VV	0,2
ELS-FREQ-31			Linear Static	VLSSC	0,
ELS-FREQ-31			Linear Static	VLCSC	0,
ELS-FREQ-31			Linear Static	TU-DIL	0,5
ELS-FREQ-31			Linear Static	TU-CON	0,
ELS-FREQ-31			Linear Static	GRA-HEAT	0,
ELS-FREQ-31			Linear Static	GRA-COOL	0,375
ELS-FREQ-32			Linear Static	PP	1,
ELS-FREQ-32			Linear Static	CM-TUBERIA	1,
ELS-FREQ-32			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-32	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-32			Linear Static	VTSSC	0,
ELS-FREQ-32			Linear Static	VTSCC	0,2
ELS-FREQ-32			Linear Static	VV	0,2
ELS-FREQ-32			Linear Static	VLSSC	0,
ELS-FREQ-32			Linear Static	VLCSC	0,
ELS-FREQ-32			Linear Static	TU-DIL	0,
ELS-FREQ-32			Linear Static	TU-CON	0,5
ELS-FREQ-32			Linear Static	GRA-HEAT	0,
ELS-FREQ-32			Linear Static	GRA-COOL	0,375
ELS-FREQ-33	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-33			Linear Static	CM-TUBERIA	1,
ELS-FREQ-33			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-33			Linear Static	SCU	0,
ELS-FREQ-33			Linear Static	VTSSC	0,2
ELS-FREQ-33			Linear Static	VTSCC	0,
ELS-FREQ-33			Linear Static	VV	0,
ELS-FREQ-33			Linear Static	VLSSC	0,
ELS-FREQ-33			Linear Static	VLCSC	0,
ELS-FREQ-33			Linear Static	TU-DIL	0,175
ELS-FREQ-33	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-33			Linear Static	GRA-HEAT	0,5
ELS-FREQ-33			Linear Static	GRA-COOL	0,
ELS-FREQ-34			Linear Static	PP	1,
ELS-FREQ-34			Linear Static	CM-TUBERIA	1,
ELS-FREQ-34			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-34			Linear Static	SCU	0,
ELS-FREQ-34			Linear Static	VTSSC	0,2
ELS-FREQ-34			Linear Static	VTSCC	0,
ELS-FREQ-34			Linear Static	VV	0,
ELS-FREQ-34	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-34			Linear Static	VLCSC	0,
ELS-FREQ-34			Linear Static	TU-DIL	0,
ELS-FREQ-34			Linear Static	TU-CON	0,175
ELS-FREQ-34			Linear Static	GRA-HEAT	0,5
ELS-FREQ-34			Linear Static	GRA-COOL	0,
ELS-FREQ-35			Linear Static	PP	1,
ELS-FREQ-35			Linear Static	CM-TUBERIA	1,
ELS-FREQ-35			Linear Static	CM- TRAMEX+REJILLA	1,
ELS-FREQ-35			Linear Static	SCU	0,
ELS-FREQ-35	Linear Add	No	Linear Static	VTSSC	0,2
ELS-FREQ-35			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-35	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-35			Linear Static	VLSSC	0,
ELS-FREQ-35			Linear Static	VLSCC	0,
ELS-FREQ-35			Linear Static	TU-DIL	0,175
ELS-FREQ-35			Linear Static	TU-CON	0,
ELS-FREQ-35			Linear Static	GRA-HEAT	0,
ELS-FREQ-35			Linear Static	GRA-COOL	0,5
ELS-FREQ-36			Linear Static	PP	1,
ELS-FREQ-36			Linear Static	CM-TUBERIA	1,
ELS-FREQ-36			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-36	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-36			Linear Static	VTSSC	0,2
ELS-FREQ-36			Linear Static	VTSCC	0,
ELS-FREQ-36			Linear Static	VV	0,
ELS-FREQ-36			Linear Static	VLSSC	0,
ELS-FREQ-36			Linear Static	VLSCC	0,
ELS-FREQ-36			Linear Static	TU-DIL	0,
ELS-FREQ-36			Linear Static	TU-CON	0,175
ELS-FREQ-36			Linear Static	GRA-HEAT	0,
ELS-FREQ-36			Linear Static	GRA-COOL	0,5
ELS-FREQ-37	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-37			Linear Static	CM-TUBERIA	1,
ELS-FREQ-37			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-37			Linear Static	SCU	0,
ELS-FREQ-37			Linear Static	VTSSC	0,2
ELS-FREQ-37			Linear Static	VTSCC	0,
ELS-FREQ-37			Linear Static	VV	0,
ELS-FREQ-37			Linear Static	VLSSC	0,
ELS-FREQ-37			Linear Static	VLSCC	0,
ELS-FREQ-37			Linear Static	TU-DIL	0,5
ELS-FREQ-37	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-37			Linear Static	GRA-HEAT	0,375
ELS-FREQ-37			Linear Static	GRA-COOL	0,
ELS-FREQ-38			Linear Static	PP	1,
ELS-FREQ-38			Linear Static	CM-TUBERIA	1,
ELS-FREQ-38			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-38			Linear Static	SCU	0,
ELS-FREQ-38			Linear Static	VTSSC	0,2
ELS-FREQ-38			Linear Static	VTSCC	0,
ELS-FREQ-38			Linear Static	VV	0,
ELS-FREQ-38	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-38			Linear Static	VLSCC	0,
ELS-FREQ-38			Linear Static	TU-DIL	0,
ELS-FREQ-38			Linear Static	TU-CON	0,5
ELS-FREQ-38			Linear Static	GRA-HEAT	0,375
ELS-FREQ-38			Linear Static	GRA-COOL	0,
ELS-FREQ-39			Linear Static	PP	1,
ELS-FREQ-39			Linear Static	CM-TUBERIA	1,
ELS-FREQ-39			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-39			Linear Static	SCU	0,
ELS-FREQ-39	Linear Add	No	Linear Static	VTSSC	0,2
ELS-FREQ-39			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-39	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-39			Linear Static	VLSSC	0,
ELS-FREQ-39			Linear Static	VLCSC	0,
ELS-FREQ-39			Linear Static	TU-DIL	0,5
ELS-FREQ-39			Linear Static	TU-CON	0,
ELS-FREQ-39			Linear Static	GRA-HEAT	0,
ELS-FREQ-39			Linear Static	GRA-COOL	0,375
ELS-FREQ-40			Linear Static	PP	1,
ELS-FREQ-40			Linear Static	CM-TUBERIA	1,
ELS-FREQ-40			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-40	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-40			Linear Static	VTSSC	0,2
ELS-FREQ-40			Linear Static	VTSCC	0,
ELS-FREQ-40			Linear Static	VV	0,
ELS-FREQ-40			Linear Static	VLSSC	0,
ELS-FREQ-40			Linear Static	VLCSC	0,
ELS-FREQ-40			Linear Static	TU-DIL	0,
ELS-FREQ-40			Linear Static	TU-CON	0,5
ELS-FREQ-40			Linear Static	GRA-HEAT	0,
ELS-FREQ-40			Linear Static	GRA-COOL	0,375
ELS-FREQ-41	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-41			Linear Static	CM-TUBERIA	1,
ELS-FREQ-41			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-41			Linear Static	SCU	0,
ELS-FREQ-41			Linear Static	VTSSC	0,2
ELS-FREQ-41			Linear Static	VTSCC	0,
ELS-FREQ-41			Linear Static	VV	0,2
ELS-FREQ-41			Linear Static	VLSSC	0,
ELS-FREQ-41			Linear Static	VLCSC	0,
ELS-FREQ-41			Linear Static	TU-DIL	0,175
ELS-FREQ-41	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-41			Linear Static	GRA-HEAT	0,5
ELS-FREQ-41			Linear Static	GRA-COOL	0,
ELS-FREQ-42			Linear Static	PP	1,
ELS-FREQ-42			Linear Static	CM-TUBERIA	1,
ELS-FREQ-42			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-42			Linear Static	SCU	0,
ELS-FREQ-42			Linear Static	VTSSC	0,2
ELS-FREQ-42			Linear Static	VTSCC	0,
ELS-FREQ-42			Linear Static	VV	0,2
ELS-FREQ-42	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-42			Linear Static	VLCSC	0,
ELS-FREQ-42			Linear Static	TU-DIL	0,
ELS-FREQ-42			Linear Static	TU-CON	0,175
ELS-FREQ-42			Linear Static	GRA-HEAT	0,5
ELS-FREQ-42			Linear Static	GRA-COOL	0,
ELS-FREQ-43			Linear Static	PP	1,
ELS-FREQ-43			Linear Static	CM-TUBERIA	1,
ELS-FREQ-43			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-43			Linear Static	SCU	0,
ELS-FREQ-43	Linear Add	No	Linear Static	VTSSC	0,2
ELS-FREQ-43			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-43	Linear Add	No	Linear Static	VV	0,2
ELS-FREQ-43			Linear Static	VLSSC	0,
ELS-FREQ-43			Linear Static	VLSCC	0,
ELS-FREQ-43			Linear Static	TU-DIL	0,175
ELS-FREQ-43			Linear Static	TU-CON	0,
ELS-FREQ-43			Linear Static	GRA-HEAT	0,
ELS-FREQ-43			Linear Static	GRA-COOL	0,5
ELS-FREQ-44			Linear Static	PP	1,
ELS-FREQ-44			Linear Static	CM-TUBERIA	1,
ELS-FREQ-44			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-44	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-44			Linear Static	VTSSC	0,2
ELS-FREQ-44			Linear Static	VTSCC	0,
ELS-FREQ-44			Linear Static	VV	0,2
ELS-FREQ-44			Linear Static	VLSSC	0,
ELS-FREQ-44			Linear Static	VLSCC	0,
ELS-FREQ-44			Linear Static	TU-DIL	0,
ELS-FREQ-44			Linear Static	TU-CON	0,175
ELS-FREQ-44			Linear Static	GRA-HEAT	0,
ELS-FREQ-44			Linear Static	GRA-COOL	0,5
ELS-FREQ-45	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-45			Linear Static	CM-TUBERIA	1,
ELS-FREQ-45			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-45			Linear Static	SCU	0,
ELS-FREQ-45			Linear Static	VTSSC	0,2
ELS-FREQ-45			Linear Static	VTSCC	0,
ELS-FREQ-45			Linear Static	VV	0,2
ELS-FREQ-45			Linear Static	VLSSC	0,
ELS-FREQ-45			Linear Static	VLSCC	0,
ELS-FREQ-45			Linear Static	TU-DIL	0,5
ELS-FREQ-45	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-45			Linear Static	GRA-HEAT	0,375
ELS-FREQ-45			Linear Static	GRA-COOL	0,
ELS-FREQ-46			Linear Static	PP	1,
ELS-FREQ-46			Linear Static	CM-TUBERIA	1,
ELS-FREQ-46			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-46			Linear Static	SCU	0,
ELS-FREQ-46			Linear Static	VTSSC	0,2
ELS-FREQ-46			Linear Static	VTSCC	0,
ELS-FREQ-46			Linear Static	VV	0,2
ELS-FREQ-46	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-46			Linear Static	VLSCC	0,
ELS-FREQ-46			Linear Static	TU-DIL	0,
ELS-FREQ-46			Linear Static	TU-CON	0,5
ELS-FREQ-46			Linear Static	GRA-HEAT	0,375
ELS-FREQ-46			Linear Static	GRA-COOL	0,
ELS-FREQ-47			Linear Static	PP	1,
ELS-FREQ-47			Linear Static	CM-TUBERIA	1,
ELS-FREQ-47			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-47			Linear Static	SCU	0,
ELS-FREQ-47	Linear Add	No	Linear Static	VTSSC	0,2
ELS-FREQ-47			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-47	Linear Add	No	Linear Static	VV	0,2
ELS-FREQ-47			Linear Static	VLSSC	0,
ELS-FREQ-47			Linear Static	VLCSC	0,
ELS-FREQ-47			Linear Static	TU-DIL	0,5
ELS-FREQ-47			Linear Static	TU-CON	0,
ELS-FREQ-47			Linear Static	GRA-HEAT	0,
ELS-FREQ-47			Linear Static	GRA-COOL	0,375
ELS-FREQ-48			Linear Static	PP	1,
ELS-FREQ-48			Linear Static	CM-TUBERIA	1,
ELS-FREQ-48			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-48	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-48			Linear Static	VTSSC	0,2
ELS-FREQ-48			Linear Static	VTSCC	0,
ELS-FREQ-48			Linear Static	VV	0,2
ELS-FREQ-48			Linear Static	VLSSC	0,
ELS-FREQ-48			Linear Static	VLCSC	0,
ELS-FREQ-48			Linear Static	TU-DIL	0,
ELS-FREQ-48			Linear Static	TU-CON	0,5
ELS-FREQ-48			Linear Static	GRA-HEAT	0,
ELS-FREQ-48			Linear Static	GRA-COOL	0,375
ELS-FREQ-49	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-49			Linear Static	CM-TUBERIA	1,
ELS-FREQ-49			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-49			Linear Static	SCU	0,
ELS-FREQ-49			Linear Static	VTSSC	0,
ELS-FREQ-49			Linear Static	VTSCC	0,
ELS-FREQ-49			Linear Static	VV	0,
ELS-FREQ-49			Linear Static	VLSSC	0,2
ELS-FREQ-49			Linear Static	VLCSC	0,
ELS-FREQ-49			Linear Static	TU-DIL	0,175
ELS-FREQ-49	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-49			Linear Static	GRA-HEAT	0,5
ELS-FREQ-49			Linear Static	GRA-COOL	0,
ELS-FREQ-50			Linear Static	PP	1,
ELS-FREQ-50			Linear Static	CM-TUBERIA	1,
ELS-FREQ-50			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-50			Linear Static	SCU	0,
ELS-FREQ-50			Linear Static	VTSSC	0,
ELS-FREQ-50			Linear Static	VTSCC	0,
ELS-FREQ-50			Linear Static	VV	0,
ELS-FREQ-50	Linear Add	No	Linear Static	VLSSC	0,2
ELS-FREQ-50			Linear Static	VLCSC	0,
ELS-FREQ-50			Linear Static	TU-DIL	0,
ELS-FREQ-50			Linear Static	TU-CON	0,175
ELS-FREQ-50			Linear Static	GRA-HEAT	0,5
ELS-FREQ-50			Linear Static	GRA-COOL	0,
ELS-FREQ-51			Linear Static	PP	1,
ELS-FREQ-51			Linear Static	CM-TUBERIA	1,
ELS-FREQ-51			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-51			Linear Static	SCU	0,
ELS-FREQ-51	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-51			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-51	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-51			Linear Static	VLSSC	0,2
ELS-FREQ-51			Linear Static	VLSCC	0,
ELS-FREQ-51			Linear Static	TU-DIL	0,175
ELS-FREQ-51			Linear Static	TU-CON	0,
ELS-FREQ-51			Linear Static	GRA-HEAT	0,
ELS-FREQ-51			Linear Static	GRA-COOL	0,5
ELS-FREQ-52			Linear Static	PP	1,
ELS-FREQ-52			Linear Static	CM-TUBERIA	1,
ELS-FREQ-52			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-52	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-52			Linear Static	VTSSC	0,
ELS-FREQ-52			Linear Static	VTSCC	0,
ELS-FREQ-52			Linear Static	VV	0,
ELS-FREQ-52			Linear Static	VLSSC	0,2
ELS-FREQ-52			Linear Static	VLSCC	0,
ELS-FREQ-52			Linear Static	TU-DIL	0,
ELS-FREQ-52			Linear Static	TU-CON	0,175
ELS-FREQ-52			Linear Static	GRA-HEAT	0,
ELS-FREQ-52			Linear Static	GRA-COOL	0,5
ELS-FREQ-53	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-53			Linear Static	CM-TUBERIA	1,
ELS-FREQ-53			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-53			Linear Static	SCU	0,
ELS-FREQ-53			Linear Static	VTSSC	0,
ELS-FREQ-53			Linear Static	VTSCC	0,
ELS-FREQ-53			Linear Static	VV	0,
ELS-FREQ-53			Linear Static	VLSSC	0,2
ELS-FREQ-53			Linear Static	VLSCC	0,
ELS-FREQ-53			Linear Static	TU-DIL	0,5
ELS-FREQ-53	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-53			Linear Static	GRA-HEAT	0,375
ELS-FREQ-53			Linear Static	GRA-COOL	0,
ELS-FREQ-54			Linear Static	PP	1,
ELS-FREQ-54			Linear Static	CM-TUBERIA	1,
ELS-FREQ-54			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-54			Linear Static	SCU	0,
ELS-FREQ-54			Linear Static	VTSSC	0,
ELS-FREQ-54			Linear Static	VTSCC	0,
ELS-FREQ-54			Linear Static	VV	0,
ELS-FREQ-54	Linear Add	No	Linear Static	VLSSC	0,2
ELS-FREQ-54			Linear Static	VLSCC	0,
ELS-FREQ-54			Linear Static	TU-DIL	0,
ELS-FREQ-54			Linear Static	TU-CON	0,5
ELS-FREQ-54			Linear Static	GRA-HEAT	0,375
ELS-FREQ-54			Linear Static	GRA-COOL	0,
ELS-FREQ-55			Linear Static	PP	1,
ELS-FREQ-55			Linear Static	CM-TUBERIA	1,
ELS-FREQ-55			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-55			Linear Static	SCU	0,
ELS-FREQ-55	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-55			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-55	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-55			Linear Static	VLSSC	0,2
ELS-FREQ-55			Linear Static	VLCSC	0,
ELS-FREQ-55			Linear Static	TU-DIL	0,5
ELS-FREQ-55			Linear Static	TU-CON	0,
ELS-FREQ-55			Linear Static	GRA-HEAT	0,
ELS-FREQ-55			Linear Static	GRA-COOL	0,375
ELS-FREQ-56			Linear Static	PP	1,
ELS-FREQ-56			Linear Static	CM-TUBERIA	1,
ELS-FREQ-56			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-56	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-56			Linear Static	VTSSC	0,
ELS-FREQ-56			Linear Static	VTSCC	0,
ELS-FREQ-56			Linear Static	VV	0,
ELS-FREQ-56			Linear Static	VLSSC	0,2
ELS-FREQ-56			Linear Static	VLCSC	0,
ELS-FREQ-56			Linear Static	TU-DIL	0,
ELS-FREQ-56			Linear Static	TU-CON	0,5
ELS-FREQ-56			Linear Static	GRA-HEAT	0,
ELS-FREQ-56			Linear Static	GRA-COOL	0,375
ELS-FREQ-57	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-57			Linear Static	CM-TUBERIA	1,
ELS-FREQ-57			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-57			Linear Static	SCU	0,
ELS-FREQ-57			Linear Static	VTSSC	0,
ELS-FREQ-57			Linear Static	VTSCC	0,
ELS-FREQ-57			Linear Static	VV	0,
ELS-FREQ-57			Linear Static	VLSSC	0,
ELS-FREQ-57			Linear Static	VLCSC	0,2
ELS-FREQ-57			Linear Static	TU-DIL	0,175
ELS-FREQ-57	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-57			Linear Static	GRA-HEAT	0,5
ELS-FREQ-57			Linear Static	GRA-COOL	0,
ELS-FREQ-58			Linear Static	PP	1,
ELS-FREQ-58			Linear Static	CM-TUBERIA	1,
ELS-FREQ-58			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-58			Linear Static	SCU	0,
ELS-FREQ-58			Linear Static	VTSSC	0,
ELS-FREQ-58			Linear Static	VTSCC	0,
ELS-FREQ-58			Linear Static	VV	0,
ELS-FREQ-58	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-58			Linear Static	VLCSC	0,2
ELS-FREQ-58			Linear Static	TU-DIL	0,
ELS-FREQ-58			Linear Static	TU-CON	0,175
ELS-FREQ-58			Linear Static	GRA-HEAT	0,5
ELS-FREQ-58			Linear Static	GRA-COOL	0,
ELS-FREQ-59			Linear Static	PP	1,
ELS-FREQ-59			Linear Static	CM-TUBERIA	1,
ELS-FREQ-59			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-59			Linear Static	SCU	0,
ELS-FREQ-59	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-59			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-59	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-59			Linear Static	VLSSC	0,
ELS-FREQ-59			Linear Static	VLSCC	0,2
ELS-FREQ-59			Linear Static	TU-DIL	0,175
ELS-FREQ-59			Linear Static	TU-CON	0,
ELS-FREQ-59			Linear Static	GRA-HEAT	0,
ELS-FREQ-59			Linear Static	GRA-COOL	0,5
ELS-FREQ-60			Linear Static	PP	1,
ELS-FREQ-60			Linear Static	CM-TUBERIA	1,
ELS-FREQ-60			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-60	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-60			Linear Static	VTSSC	0,
ELS-FREQ-60			Linear Static	VTSCC	0,
ELS-FREQ-60			Linear Static	VV	0,
ELS-FREQ-60			Linear Static	VLSSC	0,
ELS-FREQ-60			Linear Static	VLSCC	0,2
ELS-FREQ-60			Linear Static	TU-DIL	0,
ELS-FREQ-60			Linear Static	TU-CON	0,175
ELS-FREQ-60			Linear Static	GRA-HEAT	0,
ELS-FREQ-60			Linear Static	GRA-COOL	0,5
ELS-FREQ-61	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-61			Linear Static	CM-TUBERIA	1,
ELS-FREQ-61			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-61			Linear Static	SCU	0,
ELS-FREQ-61			Linear Static	VTSSC	0,
ELS-FREQ-61			Linear Static	VTSCC	0,
ELS-FREQ-61			Linear Static	VV	0,
ELS-FREQ-61			Linear Static	VLSSC	0,
ELS-FREQ-61			Linear Static	VLSCC	0,2
ELS-FREQ-61			Linear Static	TU-DIL	0,5
ELS-FREQ-61	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-61			Linear Static	GRA-HEAT	0,375
ELS-FREQ-61			Linear Static	GRA-COOL	0,
ELS-FREQ-62			Linear Static	PP	1,
ELS-FREQ-62			Linear Static	CM-TUBERIA	1,
ELS-FREQ-62			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-62			Linear Static	SCU	0,
ELS-FREQ-62			Linear Static	VTSSC	0,
ELS-FREQ-62			Linear Static	VTSCC	0,
ELS-FREQ-62			Linear Static	VV	0,
ELS-FREQ-62	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-62			Linear Static	VLSCC	0,2
ELS-FREQ-62			Linear Static	TU-DIL	0,
ELS-FREQ-62			Linear Static	TU-CON	0,5
ELS-FREQ-62			Linear Static	GRA-HEAT	0,375
ELS-FREQ-62			Linear Static	GRA-COOL	0,
ELS-FREQ-63			Linear Static	PP	1,
ELS-FREQ-63			Linear Static	CM-TUBERIA	1,
ELS-FREQ-63			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-63			Linear Static	SCU	0,
ELS-FREQ-63	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-63			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-63	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-63			Linear Static	VLSSC	0,
ELS-FREQ-63			Linear Static	VLCSC	0,2
ELS-FREQ-63			Linear Static	TU-DIL	0,5
ELS-FREQ-63			Linear Static	TU-CON	0,
ELS-FREQ-63			Linear Static	GRA-HEAT	0,
ELS-FREQ-63			Linear Static	GRA-COOL	0,375
ELS-FREQ-64			Linear Static	PP	1,
ELS-FREQ-64			Linear Static	CM-TUBERIA	1,
ELS-FREQ-64			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-64	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-64			Linear Static	VTSSC	0,
ELS-FREQ-64			Linear Static	VTSCC	0,
ELS-FREQ-64			Linear Static	VV	0,
ELS-FREQ-64			Linear Static	VLSSC	0,
ELS-FREQ-64			Linear Static	VLCSC	0,2
ELS-FREQ-64			Linear Static	TU-DIL	0,
ELS-FREQ-64			Linear Static	TU-CON	0,5
ELS-FREQ-64			Linear Static	GRA-HEAT	0,
ELS-FREQ-64			Linear Static	GRA-COOL	0,375
ELS-FREQ-65	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-65			Linear Static	CM-TUBERIA	1,
ELS-FREQ-65			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-65			Linear Static	SCU	0,
ELS-FREQ-65			Linear Static	VTSSC	0,
ELS-FREQ-65			Linear Static	VTSCC	0,
ELS-FREQ-65			Linear Static	VV	0,
ELS-FREQ-65			Linear Static	VLSSC	0,
ELS-FREQ-65			Linear Static	VLCSC	0,
ELS-FREQ-65			Linear Static	TU-DIL	0,21
ELS-FREQ-65	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-65			Linear Static	GRA-HEAT	0,6
ELS-FREQ-65			Linear Static	GRA-COOL	0,
ELS-FREQ-66			Linear Static	PP	1,
ELS-FREQ-66			Linear Static	CM-TUBERIA	1,
ELS-FREQ-66			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-66			Linear Static	SCU	0,
ELS-FREQ-66			Linear Static	VTSSC	0,
ELS-FREQ-66			Linear Static	VTSCC	0,
ELS-FREQ-66			Linear Static	VV	0,
ELS-FREQ-66	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-66			Linear Static	VLCSC	0,
ELS-FREQ-66			Linear Static	TU-DIL	0,
ELS-FREQ-66			Linear Static	TU-CON	0,21
ELS-FREQ-66			Linear Static	GRA-HEAT	0,6
ELS-FREQ-66			Linear Static	GRA-COOL	0,
ELS-FREQ-67			Linear Static	PP	1,
ELS-FREQ-67			Linear Static	CM-TUBERIA	1,
ELS-FREQ-67			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-67			Linear Static	SCU	0,
ELS-FREQ-67	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-67			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-67	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-67			Linear Static	VLSSC	0,
ELS-FREQ-67			Linear Static	VLSCC	0,
ELS-FREQ-67			Linear Static	TU-DIL	0,21
ELS-FREQ-67			Linear Static	TU-CON	0,
ELS-FREQ-67			Linear Static	GRA-HEAT	0,
ELS-FREQ-67			Linear Static	GRA-COOL	0,6
ELS-FREQ-68			Linear Static	PP	1,
ELS-FREQ-68			Linear Static	CM-TUBERIA	1,
ELS-FREQ-68			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-68	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-68			Linear Static	VTSSC	0,
ELS-FREQ-68			Linear Static	VTSCC	0,
ELS-FREQ-68			Linear Static	VV	0,
ELS-FREQ-68			Linear Static	VLSSC	0,
ELS-FREQ-68			Linear Static	VLSCC	0,
ELS-FREQ-68			Linear Static	TU-DIL	0,
ELS-FREQ-68			Linear Static	TU-CON	0,21
ELS-FREQ-68			Linear Static	GRA-HEAT	0,
ELS-FREQ-68			Linear Static	GRA-COOL	0,6
ELS-FREQ-69	Linear Add	No	Linear Static	PP	1,
ELS-FREQ-69			Linear Static	CM-TUBERIA	1,
ELS-FREQ-69			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-69			Linear Static	SCU	0,
ELS-FREQ-69			Linear Static	VTSSC	0,
ELS-FREQ-69			Linear Static	VTSCC	0,
ELS-FREQ-69			Linear Static	VV	0,
ELS-FREQ-69			Linear Static	VLSSC	0,
ELS-FREQ-69			Linear Static	VLSCC	0,
ELS-FREQ-69			Linear Static	TU-DIL	0,6
ELS-FREQ-69	Linear Add	No	Linear Static	TU-CON	0,
ELS-FREQ-69			Linear Static	GRA-HEAT	0,45
ELS-FREQ-69			Linear Static	GRA-COOL	0,
ELS-FREQ-70			Linear Static	PP	1,
ELS-FREQ-70			Linear Static	CM-TUBERIA	1,
ELS-FREQ-70			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-70			Linear Static	SCU	0,
ELS-FREQ-70			Linear Static	VTSSC	0,
ELS-FREQ-70			Linear Static	VTSCC	0,
ELS-FREQ-70			Linear Static	VV	0,
ELS-FREQ-70	Linear Add	No	Linear Static	VLSSC	0,
ELS-FREQ-70			Linear Static	VLSCC	0,
ELS-FREQ-70			Linear Static	TU-DIL	0,
ELS-FREQ-70			Linear Static	TU-CON	0,6
ELS-FREQ-70			Linear Static	GRA-HEAT	0,45
ELS-FREQ-70			Linear Static	GRA-COOL	0,
ELS-FREQ-71			Linear Static	PP	1,
ELS-FREQ-71			Linear Static	CM-TUBERIA	1,
ELS-FREQ-71			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-71			Linear Static	SCU	0,
ELS-FREQ-71	Linear Add	No	Linear Static	VTSSC	0,
ELS-FREQ-71			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-FREQ-71	Linear Add	No	Linear Static	VV	0,
ELS-FREQ-71			Linear Static	VLSSC	0,
ELS-FREQ-71			Linear Static	VLCSC	0,
ELS-FREQ-71			Linear Static	TU-DIL	0,6
ELS-FREQ-71			Linear Static	TU-CON	0,
ELS-FREQ-71			Linear Static	GRA-HEAT	0,
ELS-FREQ-71			Linear Static	GRA-COOL	0,45
ELS-FREQ-72			Linear Static	PP	1,
ELS-FREQ-72			Linear Static	CM-TUBERIA	1,
ELS-FREQ-72			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-FREQ-72	Linear Add	No	Linear Static	SCU	0,
ELS-FREQ-72			Linear Static	VTSSC	0,
ELS-FREQ-72			Linear Static	VTSCC	0,
ELS-FREQ-72			Linear Static	VV	0,
ELS-FREQ-72			Linear Static	VLSSC	0,
ELS-FREQ-72			Linear Static	VLCSC	0,
ELS-FREQ-72			Linear Static	TU-DIL	0,
ELS-FREQ-72			Linear Static	TU-CON	0,6
ELS-FREQ-72			Linear Static	GRA-HEAT	0,
ELS-FREQ-72			Linear Static	GRA-COOL	0,45
ELS-CUASI-1	Linear Add	No	Linear Static	PP	1,
ELS-CUASI-1			Linear Static	CM-TUBERIA	1,
ELS-CUASI-1			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-1			Linear Static	SCU	0,
ELS-CUASI-1			Linear Static	VTSSC	0,
ELS-CUASI-1			Linear Static	VTSCC	0,
ELS-CUASI-1			Linear Static	VV	0,
ELS-CUASI-1			Linear Static	VLSSC	0,
ELS-CUASI-1			Linear Static	VLCSC	0,
ELS-CUASI-1			Linear Static	TU-DIL	0,175
ELS-CUASI-1	Linear Add	No	Linear Static	TU-CON	0,
ELS-CUASI-1			Linear Static	GRA-HEAT	0,5
ELS-CUASI-1			Linear Static	GRA-COOL	0,
ELS-CUASI-2			Linear Static	PP	1,
ELS-CUASI-2			Linear Static	CM-TUBERIA	1,
ELS-CUASI-2			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-2			Linear Static	SCU	0,
ELS-CUASI-2			Linear Static	VTSSC	0,
ELS-CUASI-2			Linear Static	VTSCC	0,
ELS-CUASI-2			Linear Static	VV	0,
ELS-CUASI-2	Linear Add	No	Linear Static	VLSSC	0,
ELS-CUASI-2			Linear Static	VLCSC	0,
ELS-CUASI-2			Linear Static	TU-DIL	0,
ELS-CUASI-2			Linear Static	TU-CON	0,175
ELS-CUASI-2			Linear Static	GRA-HEAT	0,5
ELS-CUASI-2			Linear Static	GRA-COOL	0,
ELS-CUASI-3			Linear Static	PP	1,
ELS-CUASI-3			Linear Static	CM-TUBERIA	1,
ELS-CUASI-3			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-3			Linear Static	SCU	0,
ELS-CUASI-3	Linear Add	No	Linear Static	VTSSC	0,
ELS-CUASI-3			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CUASI-3	Linear Add	No	Linear Static	VV	0,
ELS-CUASI-3			Linear Static	VLSSC	0,
ELS-CUASI-3			Linear Static	VLSCC	0,
ELS-CUASI-3			Linear Static	TU-DIL	0,175
ELS-CUASI-3			Linear Static	TU-CON	0,
ELS-CUASI-3			Linear Static	GRA-HEAT	0,
ELS-CUASI-3			Linear Static	GRA-COOL	0,5
ELS-CUASI-4			Linear Static	PP	1,
ELS-CUASI-4			Linear Static	CM-TUBERIA	1,
ELS-CUASI-4			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-4	Linear Add	No	Linear Static	SCU	0,
ELS-CUASI-4			Linear Static	VTSSC	0,
ELS-CUASI-4			Linear Static	VTSCC	0,
ELS-CUASI-4			Linear Static	VV	0,
ELS-CUASI-4			Linear Static	VLSSC	0,
ELS-CUASI-4			Linear Static	VLSCC	0,
ELS-CUASI-4			Linear Static	TU-DIL	0,
ELS-CUASI-4			Linear Static	TU-CON	0,175
ELS-CUASI-4			Linear Static	GRA-HEAT	0,
ELS-CUASI-4			Linear Static	GRA-COOL	0,5
ELS-CUASI-5	Linear Add	No	Linear Static	PP	1,
ELS-CUASI-5			Linear Static	CM-TUBERIA	1,
ELS-CUASI-5			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-5			Linear Static	SCU	0,
ELS-CUASI-5			Linear Static	VTSSC	0,
ELS-CUASI-5			Linear Static	VTSCC	0,
ELS-CUASI-5			Linear Static	VV	0,
ELS-CUASI-5			Linear Static	VLSSC	0,
ELS-CUASI-5			Linear Static	VLSCC	0,
ELS-CUASI-5			Linear Static	TU-DIL	0,5
ELS-CUASI-5	Linear Add	No	Linear Static	TU-CON	0,
ELS-CUASI-5			Linear Static	GRA-HEAT	0,375
ELS-CUASI-5			Linear Static	GRA-COOL	0,
ELS-CUASI-6			Linear Static	PP	1,
ELS-CUASI-6			Linear Static	CM-TUBERIA	1,
ELS-CUASI-6			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-6			Linear Static	SCU	0,
ELS-CUASI-6			Linear Static	VTSSC	0,
ELS-CUASI-6			Linear Static	VTSCC	0,
ELS-CUASI-6			Linear Static	VV	0,
ELS-CUASI-6	Linear Add	No	Linear Static	VLSSC	0,
ELS-CUASI-6			Linear Static	VLSCC	0,
ELS-CUASI-6			Linear Static	TU-DIL	0,
ELS-CUASI-6			Linear Static	TU-CON	0,5
ELS-CUASI-6			Linear Static	GRA-HEAT	0,375
ELS-CUASI-6			Linear Static	GRA-COOL	0,
ELS-CUASI-7			Linear Static	PP	1,
ELS-CUASI-7			Linear Static	CM-TUBERIA	1,
ELS-CUASI-7			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-7			Linear Static	SCU	0,
ELS-CUASI-7	Linear Add	No	Linear Static	VTSSC	0,
ELS-CUASI-7			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-CUASI-7	Linear Add	No	Linear Static	VV	0,
ELS-CUASI-7			Linear Static	VLSSC	0,
ELS-CUASI-7			Linear Static	VLCSC	0,
ELS-CUASI-7			Linear Static	TU-DIL	0,5
ELS-CUASI-7			Linear Static	TU-CON	0,
ELS-CUASI-7			Linear Static	GRA-HEAT	0,
ELS-CUASI-7			Linear Static	GRA-COOL	0,375
ELS-CUASI-8			Linear Static	PP	1,
ELS-CUASI-8			Linear Static	CM-TUBERIA	1,
ELS-CUASI-8			Linear Static	CM-TRAMEX+REJILLA	1,
ELS-CUASI-8	Linear Add	No	Linear Static	SCU	0,
ELS-CUASI-8			Linear Static	VTSSC	0,
ELS-CUASI-8			Linear Static	VTSCC	0,
ELS-CUASI-8			Linear Static	VV	0,
ELS-CUASI-8			Linear Static	VLSSC	0,
ELS-CUASI-8			Linear Static	VLCSC	0,
ELS-CUASI-8			Linear Static	TU-DIL	0,
ELS-CUASI-8			Linear Static	TU-CON	0,5
ELS-CUASI-8			Linear Static	GRA-HEAT	0,
ELS-CUASI-8			Linear Static	GRA-COOL	0,375
ELU-1	Linear Add	No	Linear Static	PP	1,35
ELU-1			Linear Static	CM-TUBERIA	1,35
ELU-1			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-1			Linear Static	SCU	1,35
ELU-1			Linear Static	VTSSC	0,
ELU-1			Linear Static	VTSCC	0,
ELU-1			Linear Static	VV	0,
ELU-1			Linear Static	VLSSC	0,
ELU-1			Linear Static	VLCSC	0,
ELU-1			Linear Static	TU-DIL	0,315
ELU-1	Linear Add	No	Linear Static	TU-CON	0,
ELU-1			Linear Static	GRA-HEAT	0,9
ELU-1			Linear Static	GRA-COOL	0,
ELU-2			Linear Static	PP	1,35
ELU-2			Linear Static	CM-TUBERIA	1,35
ELU-2			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-2			Linear Static	SCU	1,35
ELU-2			Linear Static	VTSSC	0,
ELU-2			Linear Static	VTSCC	0,
ELU-2			Linear Static	VV	0,
ELU-2	Linear Add	No	Linear Static	VLSSC	0,
ELU-2			Linear Static	VLCSC	0,
ELU-2			Linear Static	TU-DIL	0,
ELU-2			Linear Static	TU-CON	0,315
ELU-2			Linear Static	GRA-HEAT	0,9
ELU-2			Linear Static	GRA-COOL	0,
ELU-3			Linear Static	PP	1,35
ELU-3			Linear Static	CM-TUBERIA	1,35
ELU-3			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-3			Linear Static	SCU	1,35
ELU-3	Linear Add	No	Linear Static	VTSSC	0,
ELU-3			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-3	Linear Add	No	Linear Static	VV	0,
ELU-3			Linear Static	VLSSC	0,
ELU-3			Linear Static	VLCS	0,
ELU-3			Linear Static	TU-DIL	0,315
ELU-3			Linear Static	TU-CON	0,
ELU-3			Linear Static	GRA-HEAT	0,
ELU-3			Linear Static	GRA-COOL	0,9
ELU-4			Linear Static	PP	1,35
ELU-4			Linear Static	CM-TUBERIA	1,35
ELU-4			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-4	Linear Add	No	Linear Static	SCU	1,35
ELU-4			Linear Static	VTSSC	0,
ELU-4			Linear Static	VTCS	0,
ELU-4			Linear Static	VV	0,
ELU-4			Linear Static	VLSSC	0,
ELU-4			Linear Static	VLCS	0,
ELU-4			Linear Static	TU-DIL	0,
ELU-4			Linear Static	TU-CON	0,315
ELU-4			Linear Static	GRA-HEAT	0,
ELU-4			Linear Static	GRA-COOL	0,9
ELU-5	Linear Add	No	Linear Static	PP	1,35
ELU-5			Linear Static	CM-TUBERIA	1,35
ELU-5			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-5			Linear Static	SCU	1,35
ELU-5			Linear Static	VTSSC	0,
ELU-5			Linear Static	VTCS	0,
ELU-5			Linear Static	VV	0,
ELU-5			Linear Static	VLSSC	0,
ELU-5			Linear Static	VLCS	0,
ELU-5			Linear Static	TU-DIL	0,9
ELU-5	Linear Add	No	Linear Static	TU-CON	0,
ELU-5			Linear Static	GRA-HEAT	0,675
ELU-5			Linear Static	GRA-COOL	0,
ELU-6			Linear Static	PP	1,35
ELU-6			Linear Static	CM-TUBERIA	1,35
ELU-6			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-6			Linear Static	SCU	1,35
ELU-6			Linear Static	VTSSC	0,
ELU-6			Linear Static	VTCS	0,
ELU-6			Linear Static	VV	0,
ELU-6	Linear Add	No	Linear Static	VLSSC	0,
ELU-6			Linear Static	VLCS	0,
ELU-6			Linear Static	TU-DIL	0,
ELU-6			Linear Static	TU-CON	0,9
ELU-6			Linear Static	GRA-HEAT	0,675
ELU-6			Linear Static	GRA-COOL	0,
ELU-7			Linear Static	PP	1,35
ELU-7			Linear Static	CM-TUBERIA	1,35
ELU-7			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-7			Linear Static	SCU	1,35
ELU-7	Linear Add	No	Linear Static	VTSSC	0,
ELU-7			Linear Static	VTCS	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-7	Linear Add	No	Linear Static	VV	0,
ELU-7			Linear Static	VLSSC	0,
ELU-7			Linear Static	VLCSC	0,
ELU-7			Linear Static	TU-DIL	0,9
ELU-7			Linear Static	TU-CON	0,
ELU-7			Linear Static	GRA-HEAT	0,
ELU-7			Linear Static	GRA-COOL	0,675
ELU-8			Linear Static	PP	1,35
ELU-8			Linear Static	CM-TUBERIA	1,35
ELU-8			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-8	Linear Add	No	Linear Static	SCU	1,35
ELU-8			Linear Static	VTSSC	0,
ELU-8			Linear Static	VTSCC	0,
ELU-8			Linear Static	VV	0,
ELU-8			Linear Static	VLSSC	0,
ELU-8			Linear Static	VLCSC	0,
ELU-8			Linear Static	TU-DIL	0,
ELU-8			Linear Static	TU-CON	0,9
ELU-8			Linear Static	GRA-HEAT	0,
ELU-8			Linear Static	GRA-COOL	0,675
ELU-9	Linear Add	No	Linear Static	PP	1,35
ELU-9			Linear Static	CM-TUBERIA	1,35
ELU-9			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-9			Linear Static	SCU	1,35
ELU-9			Linear Static	VTSSC	0,
ELU-9			Linear Static	VTSCC	0,45
ELU-9			Linear Static	VV	0,
ELU-9			Linear Static	VLSSC	0,
ELU-9			Linear Static	VLCSC	0,
ELU-9			Linear Static	TU-DIL	0,315
ELU-9	Linear Add	No	Linear Static	TU-CON	0,
ELU-9			Linear Static	GRA-HEAT	0,9
ELU-9			Linear Static	GRA-COOL	0,
ELU-10			Linear Static	PP	1,35
ELU-10			Linear Static	CM-TUBERIA	1,35
ELU-10			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-10			Linear Static	SCU	1,35
ELU-10			Linear Static	VTSSC	0,
ELU-10			Linear Static	VTSCC	0,45
ELU-10			Linear Static	VV	0,
ELU-10	Linear Add	No	Linear Static	VLSSC	0,
ELU-10			Linear Static	VLCSC	0,
ELU-10			Linear Static	TU-DIL	0,
ELU-10			Linear Static	TU-CON	0,315
ELU-10			Linear Static	GRA-HEAT	0,9
ELU-10			Linear Static	GRA-COOL	0,
ELU-11			Linear Static	PP	1,35
ELU-11			Linear Static	CM-TUBERIA	1,35
ELU-11			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-11			Linear Static	SCU	1,35
ELU-11	Linear Add	No	Linear Static	VTSSC	0,
ELU-11			Linear Static	VTSCC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-11	Linear Add	No	Linear Static	VV	0,
ELU-11			Linear Static	VLSSC	0,
ELU-11			Linear Static	VLSC	0,
ELU-11			Linear Static	TU-DIL	0,315
ELU-11			Linear Static	TU-CON	0,
ELU-11			Linear Static	GRA-HEAT	0,
ELU-11			Linear Static	GRA-COOL	0,9
ELU-12			Linear Static	PP	1,35
ELU-12			Linear Static	CM-TUBERIA	1,35
ELU-12			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-12	Linear Add	No	Linear Static	SCU	1,35
ELU-12			Linear Static	VTSSC	0,
ELU-12			Linear Static	VTSC	0,45
ELU-12			Linear Static	VV	0,
ELU-12			Linear Static	VLSSC	0,
ELU-12			Linear Static	VLSC	0,
ELU-12			Linear Static	TU-DIL	0,
ELU-12			Linear Static	TU-CON	0,315
ELU-12			Linear Static	GRA-HEAT	0,
ELU-12			Linear Static	GRA-COOL	0,9
ELU-13	Linear Add	No	Linear Static	PP	1,35
ELU-13			Linear Static	CM-TUBERIA	1,35
ELU-13			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-13			Linear Static	SCU	1,35
ELU-13			Linear Static	VTSSC	0,
ELU-13			Linear Static	VTSC	0,45
ELU-13			Linear Static	VV	0,
ELU-13			Linear Static	VLSSC	0,
ELU-13			Linear Static	VLSC	0,
ELU-13			Linear Static	TU-DIL	0,9
ELU-13	Linear Add	No	Linear Static	TU-CON	0,
ELU-13			Linear Static	GRA-HEAT	0,675
ELU-13			Linear Static	GRA-COOL	0,
ELU-14			Linear Static	PP	1,35
ELU-14			Linear Static	CM-TUBERIA	1,35
ELU-14			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-14			Linear Static	SCU	1,35
ELU-14			Linear Static	VTSSC	0,
ELU-14			Linear Static	VTSC	0,45
ELU-14			Linear Static	VV	0,
ELU-14	Linear Add	No	Linear Static	VLSSC	0,
ELU-14			Linear Static	VLSC	0,
ELU-14			Linear Static	TU-DIL	0,
ELU-14			Linear Static	TU-CON	0,9
ELU-14			Linear Static	GRA-HEAT	0,675
ELU-14			Linear Static	GRA-COOL	0,
ELU-15			Linear Static	PP	1,35
ELU-15			Linear Static	CM-TUBERIA	1,35
ELU-15			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-15			Linear Static	SCU	1,35
ELU-15			Linear Static	VTSSC	0,
ELU-15			Linear Static	VTSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-15	Linear Add	No	Linear Static	VV	0,
ELU-15			Linear Static	VLSSC	0,
ELU-15			Linear Static	VLCSC	0,
ELU-15			Linear Static	TU-DIL	0,9
ELU-15			Linear Static	TU-CON	0,
ELU-15			Linear Static	GRA-HEAT	0,
ELU-15			Linear Static	GRA-COOL	0,675
ELU-16			Linear Static	PP	1,35
ELU-16			Linear Static	CM-TUBERIA	1,35
ELU-16			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-16	Linear Add	No	Linear Static	SCU	1,35
ELU-16			Linear Static	VTSSC	0,
ELU-16			Linear Static	VTSCC	0,45
ELU-16			Linear Static	VV	0,
ELU-16			Linear Static	VLSSC	0,
ELU-16			Linear Static	VLCSC	0,
ELU-16			Linear Static	TU-DIL	0,
ELU-16			Linear Static	TU-CON	0,9
ELU-16			Linear Static	GRA-HEAT	0,
ELU-16			Linear Static	GRA-COOL	0,675
ELU-17	Linear Add	No	Linear Static	PP	1,35
ELU-17			Linear Static	CM-TUBERIA	1,35
ELU-17			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-17			Linear Static	SCU	1,35
ELU-17			Linear Static	VTSSC	0,
ELU-17			Linear Static	VTSCC	0,45
ELU-17			Linear Static	VV	0,45
ELU-17			Linear Static	VLSSC	0,
ELU-17			Linear Static	VLCSC	0,
ELU-17			Linear Static	TU-DIL	0,315
ELU-17	Linear Add	No	Linear Static	TU-CON	0,
ELU-17			Linear Static	GRA-HEAT	0,9
ELU-17			Linear Static	GRA-COOL	0,
ELU-18			Linear Static	PP	1,35
ELU-18			Linear Static	CM-TUBERIA	1,35
ELU-18			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-18			Linear Static	SCU	1,35
ELU-18			Linear Static	VTSSC	0,
ELU-18			Linear Static	VTSCC	0,45
ELU-18			Linear Static	VV	0,45
ELU-18	Linear Add	No	Linear Static	VLSSC	0,
ELU-18			Linear Static	VLCSC	0,
ELU-18			Linear Static	TU-DIL	0,
ELU-18			Linear Static	TU-CON	0,315
ELU-18			Linear Static	GRA-HEAT	0,9
ELU-18			Linear Static	GRA-COOL	0,
ELU-19			Linear Static	PP	1,35
ELU-19			Linear Static	CM-TUBERIA	1,35
ELU-19			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-19			Linear Static	SCU	1,35
ELU-19	Linear Add	No	Linear Static	VTSSC	0,
ELU-19			Linear Static	VTSCC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-19	Linear Add	No	Linear Static	VV	0,45
ELU-19			Linear Static	VLSSC	0,
ELU-19			Linear Static	VLSC	0,
ELU-19			Linear Static	TU-DIL	0,315
ELU-19			Linear Static	TU-CON	0,
ELU-19			Linear Static	GRA-HEAT	0,
ELU-19			Linear Static	GRA-COOL	0,9
ELU-20			Linear Static	PP	1,35
ELU-20			Linear Static	CM-TUBERIA	1,35
ELU-20			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-20	Linear Add	No	Linear Static	SCU	1,35
ELU-20			Linear Static	VTSSC	0,
ELU-20			Linear Static	VTSC	0,45
ELU-20			Linear Static	VV	0,45
ELU-20			Linear Static	VLSSC	0,
ELU-20			Linear Static	VLSC	0,
ELU-20			Linear Static	TU-DIL	0,
ELU-20			Linear Static	TU-CON	0,315
ELU-20			Linear Static	GRA-HEAT	0,
ELU-20			Linear Static	GRA-COOL	0,9
ELU-21	Linear Add	No	Linear Static	PP	1,35
ELU-21			Linear Static	CM-TUBERIA	1,35
ELU-21			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-21			Linear Static	SCU	1,35
ELU-21			Linear Static	VTSSC	0,
ELU-21			Linear Static	VTSC	0,45
ELU-21			Linear Static	VV	0,45
ELU-21			Linear Static	VLSSC	0,
ELU-21			Linear Static	VLSC	0,
ELU-21			Linear Static	TU-DIL	0,9
ELU-21	Linear Add	No	Linear Static	TU-CON	0,
ELU-21			Linear Static	GRA-HEAT	0,675
ELU-21			Linear Static	GRA-COOL	0,
ELU-22			Linear Static	PP	1,35
ELU-22			Linear Static	CM-TUBERIA	1,35
ELU-22			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-22			Linear Static	SCU	1,35
ELU-22			Linear Static	VTSSC	0,
ELU-22			Linear Static	VTSC	0,45
ELU-22			Linear Static	VV	0,45
ELU-22	Linear Add	No	Linear Static	VLSSC	0,
ELU-22			Linear Static	VLSC	0,
ELU-22			Linear Static	TU-DIL	0,
ELU-22			Linear Static	TU-CON	0,9
ELU-22			Linear Static	GRA-HEAT	0,675
ELU-22			Linear Static	GRA-COOL	0,
ELU-23			Linear Static	PP	1,35
ELU-23			Linear Static	CM-TUBERIA	1,35
ELU-23			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-23			Linear Static	SCU	1,35
ELU-23	Linear Add	No	Linear Static	VTSSC	0,
ELU-23			Linear Static	VTSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-23	Linear Add	No	Linear Static	VV	0,45
ELU-23			Linear Static	VLSSC	0,
ELU-23			Linear Static	VLCSC	0,
ELU-23			Linear Static	TU-DIL	0,9
ELU-23			Linear Static	TU-CON	0,
ELU-23			Linear Static	GRA-HEAT	0,
ELU-23			Linear Static	GRA-COOL	0,675
ELU-24			Linear Static	PP	1,35
ELU-24			Linear Static	CM-TUBERIA	1,35
ELU-24			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-24	Linear Add	No	Linear Static	SCU	1,35
ELU-24			Linear Static	VTSSC	0,
ELU-24			Linear Static	VTSCC	0,45
ELU-24			Linear Static	VV	0,45
ELU-24			Linear Static	VLSSC	0,
ELU-24			Linear Static	VLCSC	0,
ELU-24			Linear Static	TU-DIL	0,
ELU-24			Linear Static	TU-CON	0,9
ELU-24			Linear Static	GRA-HEAT	0,
ELU-24			Linear Static	GRA-COOL	0,675
ELU-25	Linear Add	No	Linear Static	PP	1,35
ELU-25			Linear Static	CM-TUBERIA	1,35
ELU-25			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-25			Linear Static	SCU	0,
ELU-25			Linear Static	VTSSC	0,45
ELU-25			Linear Static	VTSCC	0,
ELU-25			Linear Static	VV	0,
ELU-25			Linear Static	VLSSC	0,
ELU-25			Linear Static	VLCSC	0,
ELU-25			Linear Static	TU-DIL	0,315
ELU-25	Linear Add	No	Linear Static	TU-CON	0,
ELU-25			Linear Static	GRA-HEAT	0,9
ELU-25			Linear Static	GRA-COOL	0,
ELU-26			Linear Static	PP	1,35
ELU-26			Linear Static	CM-TUBERIA	1,35
ELU-26			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-26			Linear Static	SCU	0,
ELU-26			Linear Static	VTSSC	0,45
ELU-26			Linear Static	VTSCC	0,
ELU-26			Linear Static	VV	0,
ELU-26	Linear Add	No	Linear Static	VLSSC	0,
ELU-26			Linear Static	VLCSC	0,
ELU-26			Linear Static	TU-DIL	0,
ELU-26			Linear Static	TU-CON	0,315
ELU-26			Linear Static	GRA-HEAT	0,9
ELU-26			Linear Static	GRA-COOL	0,
ELU-27			Linear Static	PP	1,35
ELU-27			Linear Static	CM-TUBERIA	1,35
ELU-27			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-27			Linear Static	SCU	0,
ELU-27	Linear Add	No	Linear Static	VTSSC	0,45
ELU-27			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-27	Linear Add	No	Linear Static	VV	0,
ELU-27			Linear Static	VLSSC	0,
ELU-27			Linear Static	VLSCC	0,
ELU-27			Linear Static	TU-DIL	0,315
ELU-27			Linear Static	TU-CON	0,
ELU-27			Linear Static	GRA-HEAT	0,
ELU-27			Linear Static	GRA-COOL	0,9
ELU-28			Linear Static	PP	1,35
ELU-28			Linear Static	CM-TUBERIA	1,35
ELU-28			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-28	Linear Add	No	Linear Static	SCU	0,
ELU-28			Linear Static	VTSSC	0,45
ELU-28			Linear Static	VTSCC	0,
ELU-28			Linear Static	VV	0,
ELU-28			Linear Static	VLSSC	0,
ELU-28			Linear Static	VLSCC	0,
ELU-28			Linear Static	TU-DIL	0,
ELU-28			Linear Static	TU-CON	0,315
ELU-28			Linear Static	GRA-HEAT	0,
ELU-28			Linear Static	GRA-COOL	0,9
ELU-29	Linear Add	No	Linear Static	PP	1,35
ELU-29			Linear Static	CM-TUBERIA	1,35
ELU-29			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-29			Linear Static	SCU	0,
ELU-29			Linear Static	VTSSC	0,45
ELU-29			Linear Static	VTSCC	0,
ELU-29			Linear Static	VV	0,
ELU-29			Linear Static	VLSSC	0,
ELU-29			Linear Static	VLSCC	0,
ELU-29			Linear Static	TU-DIL	0,9
ELU-29	Linear Add	No	Linear Static	TU-CON	0,
ELU-29			Linear Static	GRA-HEAT	0,675
ELU-29			Linear Static	GRA-COOL	0,
ELU-30			Linear Static	PP	1,35
ELU-30			Linear Static	CM-TUBERIA	1,35
ELU-30			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-30			Linear Static	SCU	0,
ELU-30			Linear Static	VTSSC	0,45
ELU-30			Linear Static	VTSCC	0,
ELU-30			Linear Static	VV	0,
ELU-30	Linear Add	No	Linear Static	VLSSC	0,
ELU-30			Linear Static	VLSCC	0,
ELU-30			Linear Static	TU-DIL	0,
ELU-30			Linear Static	TU-CON	0,9
ELU-30			Linear Static	GRA-HEAT	0,675
ELU-30			Linear Static	GRA-COOL	0,
ELU-31			Linear Static	PP	1,35
ELU-31			Linear Static	CM-TUBERIA	1,35
ELU-31			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-31			Linear Static	SCU	0,
ELU-31	Linear Add	No	Linear Static	VTSSC	0,45
ELU-31			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-31	Linear Add	No	Linear Static	VV	0,
ELU-31			Linear Static	VLSSC	0,
ELU-31			Linear Static	VLCSC	0,
ELU-31			Linear Static	TU-DIL	0,9
ELU-31			Linear Static	TU-CON	0,
ELU-31			Linear Static	GRA-HEAT	0,
ELU-31			Linear Static	GRA-COOL	0,675
ELU-32			Linear Static	PP	1,35
ELU-32			Linear Static	CM-TUBERIA	1,35
ELU-32			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-32	Linear Add	No	Linear Static	SCU	0,
ELU-32			Linear Static	VTSSC	0,45
ELU-32			Linear Static	VTSCC	0,
ELU-32			Linear Static	VV	0,
ELU-32			Linear Static	VLSSC	0,
ELU-32			Linear Static	VLCSC	0,
ELU-32			Linear Static	TU-DIL	0,
ELU-32			Linear Static	TU-CON	0,9
ELU-32			Linear Static	GRA-HEAT	0,
ELU-32			Linear Static	GRA-COOL	0,675
ELU-33	Linear Add	No	Linear Static	PP	1,35
ELU-33			Linear Static	CM-TUBERIA	1,35
ELU-33			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-33			Linear Static	SCU	0,
ELU-33			Linear Static	VTSSC	0,45
ELU-33			Linear Static	VTSCC	0,
ELU-33			Linear Static	VV	0,45
ELU-33			Linear Static	VLSSC	0,
ELU-33			Linear Static	VLCSC	0,
ELU-33			Linear Static	TU-DIL	0,315
ELU-33	Linear Add	No	Linear Static	TU-CON	0,
ELU-33			Linear Static	GRA-HEAT	0,9
ELU-33			Linear Static	GRA-COOL	0,
ELU-34			Linear Static	PP	1,35
ELU-34			Linear Static	CM-TUBERIA	1,35
ELU-34			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-34			Linear Static	SCU	0,
ELU-34			Linear Static	VTSSC	0,45
ELU-34			Linear Static	VTSCC	0,
ELU-34			Linear Static	VV	0,45
ELU-34	Linear Add	No	Linear Static	VLSSC	0,
ELU-34			Linear Static	VLCSC	0,
ELU-34			Linear Static	TU-DIL	0,
ELU-34			Linear Static	TU-CON	0,315
ELU-34			Linear Static	GRA-HEAT	0,9
ELU-34			Linear Static	GRA-COOL	0,
ELU-35			Linear Static	PP	1,35
ELU-35			Linear Static	CM-TUBERIA	1,35
ELU-35			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-35			Linear Static	SCU	0,
ELU-35	Linear Add	No	Linear Static	VTSSC	0,45
ELU-35			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-35	Linear Add	No	Linear Static	VV	0,45
ELU-35			Linear Static	VLSSC	0,
ELU-35			Linear Static	VLSC	0,
ELU-35			Linear Static	TU-DIL	0,315
ELU-35			Linear Static	TU-CON	0,
ELU-35			Linear Static	GRA-HEAT	0,
ELU-35			Linear Static	GRA-COOL	0,9
ELU-36			Linear Static	PP	1,35
ELU-36			Linear Static	CM-TUBERIA	1,35
ELU-36			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-36	Linear Add	No	Linear Static	SCU	0,
ELU-36			Linear Static	VTSSC	0,45
ELU-36			Linear Static	VTSC	0,
ELU-36			Linear Static	VV	0,45
ELU-36			Linear Static	VLSSC	0,
ELU-36			Linear Static	VLSC	0,
ELU-36			Linear Static	TU-DIL	0,
ELU-36			Linear Static	TU-CON	0,315
ELU-36			Linear Static	GRA-HEAT	0,
ELU-36			Linear Static	GRA-COOL	0,9
ELU-37	Linear Add	No	Linear Static	PP	1,35
ELU-37			Linear Static	CM-TUBERIA	1,35
ELU-37			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-37			Linear Static	SCU	0,
ELU-37			Linear Static	VTSSC	0,45
ELU-37			Linear Static	VTSC	0,
ELU-37			Linear Static	VV	0,45
ELU-37			Linear Static	VLSSC	0,
ELU-37			Linear Static	VLSC	0,
ELU-37			Linear Static	TU-DIL	0,9
ELU-37	Linear Add	No	Linear Static	TU-CON	0,
ELU-37			Linear Static	GRA-HEAT	0,675
ELU-37			Linear Static	GRA-COOL	0,
ELU-38			Linear Static	PP	1,35
ELU-38			Linear Static	CM-TUBERIA	1,35
ELU-38			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-38			Linear Static	SCU	0,
ELU-38			Linear Static	VTSSC	0,45
ELU-38			Linear Static	VTSC	0,
ELU-38			Linear Static	VV	0,45
ELU-38	Linear Add	No	Linear Static	VLSSC	0,
ELU-38			Linear Static	VLSC	0,
ELU-38			Linear Static	TU-DIL	0,
ELU-38			Linear Static	TU-CON	0,9
ELU-38			Linear Static	GRA-HEAT	0,675
ELU-38			Linear Static	GRA-COOL	0,
ELU-39			Linear Static	PP	1,35
ELU-39			Linear Static	CM-TUBERIA	1,35
ELU-39			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-39			Linear Static	SCU	0,
ELU-39	Linear Add	No	Linear Static	VTSSC	0,45
ELU-39			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-39	Linear Add	No	Linear Static	VV	0,45
ELU-39			Linear Static	VLSSC	0,
ELU-39			Linear Static	VLCSC	0,
ELU-39			Linear Static	TU-DIL	0,9
ELU-39			Linear Static	TU-CON	0,
ELU-39			Linear Static	GRA-HEAT	0,
ELU-39			Linear Static	GRA-COOL	0,675
ELU-40			Linear Static	PP	1,35
ELU-40			Linear Static	CM-TUBERIA	1,35
ELU-40			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-40	Linear Add	No	Linear Static	SCU	0,
ELU-40			Linear Static	VTSSC	0,45
ELU-40			Linear Static	UTCSC	0,
ELU-40			Linear Static	VV	0,45
ELU-40			Linear Static	VLSSC	0,
ELU-40			Linear Static	VLCSC	0,
ELU-40			Linear Static	TU-DIL	0,
ELU-40			Linear Static	TU-CON	0,9
ELU-40			Linear Static	GRA-HEAT	0,
ELU-40			Linear Static	GRA-COOL	0,675
ELU-41	Linear Add	No	Linear Static	PP	1,35
ELU-41			Linear Static	CM-TUBERIA	1,35
ELU-41			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-41			Linear Static	SCU	0,
ELU-41			Linear Static	VTSSC	0,
ELU-41			Linear Static	UTCSC	0,
ELU-41			Linear Static	VV	0,
ELU-41			Linear Static	VLSSC	0,45
ELU-41			Linear Static	VLCSC	0,
ELU-41			Linear Static	TU-DIL	0,315
ELU-41	Linear Add	No	Linear Static	TU-CON	0,
ELU-41			Linear Static	GRA-HEAT	0,9
ELU-41			Linear Static	GRA-COOL	0,
ELU-42			Linear Static	PP	1,35
ELU-42			Linear Static	CM-TUBERIA	1,35
ELU-42			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-42			Linear Static	SCU	0,
ELU-42			Linear Static	VTSSC	0,
ELU-42			Linear Static	UTCSC	0,
ELU-42			Linear Static	VV	0,
ELU-42	Linear Add	No	Linear Static	VLSSC	0,45
ELU-42			Linear Static	VLCSC	0,
ELU-42			Linear Static	TU-DIL	0,
ELU-42			Linear Static	TU-CON	0,315
ELU-42			Linear Static	GRA-HEAT	0,9
ELU-42			Linear Static	GRA-COOL	0,
ELU-43			Linear Static	PP	1,35
ELU-43			Linear Static	CM-TUBERIA	1,35
ELU-43			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-43			Linear Static	SCU	0,
ELU-43	Linear Add	No	Linear Static	VTSSC	0,
ELU-43			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-43	Linear Add	No	Linear Static	VV	0,
ELU-43			Linear Static	VLSSC	0,45
ELU-43			Linear Static	VLSC	0,
ELU-43			Linear Static	TU-DIL	0,315
ELU-43			Linear Static	TU-CON	0,
ELU-43			Linear Static	GRA-HEAT	0,
ELU-43			Linear Static	GRA-COOL	0,9
ELU-44			Linear Static	PP	1,35
ELU-44			Linear Static	CM-TUBERIA	1,35
ELU-44			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-44	Linear Add	No	Linear Static	SCU	0,
ELU-44			Linear Static	VTSSC	0,
ELU-44			Linear Static	VTSC	0,
ELU-44			Linear Static	VV	0,
ELU-44			Linear Static	VLSSC	0,45
ELU-44			Linear Static	VLSC	0,
ELU-44			Linear Static	TU-DIL	0,
ELU-44			Linear Static	TU-CON	0,315
ELU-44			Linear Static	GRA-HEAT	0,
ELU-44			Linear Static	GRA-COOL	0,9
ELU-45	Linear Add	No	Linear Static	PP	1,35
ELU-45			Linear Static	CM-TUBERIA	1,35
ELU-45			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-45			Linear Static	SCU	0,
ELU-45			Linear Static	VTSSC	0,
ELU-45			Linear Static	VTSC	0,
ELU-45			Linear Static	VV	0,
ELU-45			Linear Static	VLSSC	0,45
ELU-45			Linear Static	VLSC	0,
ELU-45			Linear Static	TU-DIL	0,9
ELU-45	Linear Add	No	Linear Static	TU-CON	0,
ELU-45			Linear Static	GRA-HEAT	0,675
ELU-45			Linear Static	GRA-COOL	0,
ELU-46			Linear Static	PP	1,35
ELU-46			Linear Static	CM-TUBERIA	1,35
ELU-46			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-46			Linear Static	SCU	0,
ELU-46			Linear Static	VTSSC	0,
ELU-46			Linear Static	VTSC	0,
ELU-46			Linear Static	VV	0,
ELU-46	Linear Add	No	Linear Static	VLSSC	0,45
ELU-46			Linear Static	VLSC	0,
ELU-46			Linear Static	TU-DIL	0,
ELU-46			Linear Static	TU-CON	0,9
ELU-46			Linear Static	GRA-HEAT	0,675
ELU-46			Linear Static	GRA-COOL	0,
ELU-47			Linear Static	PP	1,35
ELU-47			Linear Static	CM-TUBERIA	1,35
ELU-47			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-47			Linear Static	SCU	0,
ELU-47	Linear Add	No	Linear Static	VTSSC	0,
ELU-47			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-47	Linear Add	No	Linear Static	VV	0,
ELU-47			Linear Static	VLSSC	0,45
ELU-47			Linear Static	VLCSC	0,
ELU-47			Linear Static	TU-DIL	0,9
ELU-47			Linear Static	TU-CON	0,
ELU-47			Linear Static	GRA-HEAT	0,
ELU-47			Linear Static	GRA-COOL	0,675
ELU-48			Linear Static	PP	1,35
ELU-48			Linear Static	CM-TUBERIA	1,35
ELU-48			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-48	Linear Add	No	Linear Static	SCU	0,
ELU-48			Linear Static	VTSSC	0,
ELU-48			Linear Static	UTCSC	0,
ELU-48			Linear Static	VV	0,
ELU-48			Linear Static	VLSSC	0,45
ELU-48			Linear Static	VLCSC	0,
ELU-48			Linear Static	TU-DIL	0,
ELU-48			Linear Static	TU-CON	0,9
ELU-48			Linear Static	GRA-HEAT	0,
ELU-48			Linear Static	GRA-COOL	0,675
ELU-49	Linear Add	No	Linear Static	PP	1,35
ELU-49			Linear Static	CM-TUBERIA	1,35
ELU-49			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-49			Linear Static	SCU	1,35
ELU-49			Linear Static	VTSSC	0,
ELU-49			Linear Static	UTCSC	0,
ELU-49			Linear Static	VV	0,
ELU-49			Linear Static	VLSSC	0,
ELU-49			Linear Static	VLCSC	0,45
ELU-49			Linear Static	TU-DIL	0,315
ELU-49	Linear Add	No	Linear Static	TU-CON	0,
ELU-49			Linear Static	GRA-HEAT	0,9
ELU-49			Linear Static	GRA-COOL	0,
ELU-50			Linear Static	PP	1,35
ELU-50			Linear Static	CM-TUBERIA	1,35
ELU-50			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-50			Linear Static	SCU	1,35
ELU-50			Linear Static	VTSSC	0,
ELU-50			Linear Static	UTCSC	0,
ELU-50			Linear Static	VV	0,
ELU-50	Linear Add	No	Linear Static	VLSSC	0,
ELU-50			Linear Static	VLCSC	0,45
ELU-50			Linear Static	TU-DIL	0,
ELU-50			Linear Static	TU-CON	0,315
ELU-50			Linear Static	GRA-HEAT	0,9
ELU-50			Linear Static	GRA-COOL	0,
ELU-51			Linear Static	PP	1,35
ELU-51			Linear Static	CM-TUBERIA	1,35
ELU-51			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-51			Linear Static	SCU	1,35
ELU-51	Linear Add	No	Linear Static	VTSSC	0,
ELU-51			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-51	Linear Add	No	Linear Static	VV	0,
ELU-51			Linear Static	VLSSC	0,
ELU-51			Linear Static	VLSCC	0,45
ELU-51			Linear Static	TU-DIL	0,315
ELU-51			Linear Static	TU-CON	0,
ELU-51			Linear Static	GRA-HEAT	0,
ELU-51			Linear Static	GRA-COOL	0,9
ELU-52			Linear Static	PP	1,35
ELU-52			Linear Static	CM-TUBERIA	1,35
ELU-52			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-52	Linear Add	No	Linear Static	SCU	1,35
ELU-52			Linear Static	VTSSC	0,
ELU-52			Linear Static	VTSCC	0,
ELU-52			Linear Static	VV	0,
ELU-52			Linear Static	VLSSC	0,
ELU-52			Linear Static	VLSCC	0,45
ELU-52			Linear Static	TU-DIL	0,
ELU-52			Linear Static	TU-CON	0,315
ELU-52			Linear Static	GRA-HEAT	0,
ELU-52			Linear Static	GRA-COOL	0,9
ELU-53	Linear Add	No	Linear Static	PP	1,35
ELU-53			Linear Static	CM-TUBERIA	1,35
ELU-53			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-53			Linear Static	SCU	1,35
ELU-53			Linear Static	VTSSC	0,
ELU-53			Linear Static	VTSCC	0,
ELU-53			Linear Static	VV	0,
ELU-53			Linear Static	VLSSC	0,
ELU-53			Linear Static	VLSCC	0,45
ELU-53			Linear Static	TU-DIL	0,9
ELU-53	Linear Add	No	Linear Static	TU-CON	0,
ELU-53			Linear Static	GRA-HEAT	0,675
ELU-53			Linear Static	GRA-COOL	0,
ELU-54			Linear Static	PP	1,35
ELU-54			Linear Static	CM-TUBERIA	1,35
ELU-54			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-54			Linear Static	SCU	1,35
ELU-54			Linear Static	VTSSC	0,
ELU-54			Linear Static	VTSCC	0,
ELU-54			Linear Static	VV	0,
ELU-54	Linear Add	No	Linear Static	VLSSC	0,
ELU-54			Linear Static	VLSCC	0,45
ELU-54			Linear Static	TU-DIL	0,
ELU-54			Linear Static	TU-CON	0,9
ELU-54			Linear Static	GRA-HEAT	0,675
ELU-54			Linear Static	GRA-COOL	0,
ELU-55			Linear Static	PP	1,35
ELU-55			Linear Static	CM-TUBERIA	1,35
ELU-55			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-55			Linear Static	SCU	1,35
ELU-55	Linear Add	No	Linear Static	VTSSC	0,
ELU-55			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-55	Linear Add	No	Linear Static	VV	0,
ELU-55			Linear Static	VLSSC	0,
ELU-55			Linear Static	VLCSC	0,45
ELU-55			Linear Static	TU-DIL	0,9
ELU-55			Linear Static	TU-CON	0,
ELU-55			Linear Static	GRA-HEAT	0,
ELU-55			Linear Static	GRA-COOL	0,675
ELU-56			Linear Static	PP	1,35
ELU-56			Linear Static	CM-TUBERIA	1,35
ELU-56			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-56	Linear Add	No	Linear Static	SCU	1,35
ELU-56			Linear Static	VTSSC	0,
ELU-56			Linear Static	VTSCC	0,
ELU-56			Linear Static	VV	0,
ELU-56			Linear Static	VLSSC	0,
ELU-56			Linear Static	VLCSC	0,45
ELU-56			Linear Static	TU-DIL	0,
ELU-56			Linear Static	TU-CON	0,9
ELU-56			Linear Static	GRA-HEAT	0,
ELU-56			Linear Static	GRA-COOL	0,675
ELU-57	Linear Add	No	Linear Static	PP	1,
ELU-57			Linear Static	CM-TUBERIA	1,
ELU-57			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-57			Linear Static	SCU	1,35
ELU-57			Linear Static	VTSSC	0,
ELU-57			Linear Static	VTSCC	0,
ELU-57			Linear Static	VV	0,
ELU-57			Linear Static	VLSSC	0,
ELU-57			Linear Static	VLCSC	0,
ELU-57			Linear Static	TU-DIL	0,315
ELU-57	Linear Add	No	Linear Static	TU-CON	0,
ELU-57			Linear Static	GRA-HEAT	0,9
ELU-57			Linear Static	GRA-COOL	0,
ELU-58			Linear Static	PP	1,
ELU-58			Linear Static	CM-TUBERIA	1,
ELU-58			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-58			Linear Static	SCU	1,35
ELU-58			Linear Static	VTSSC	0,
ELU-58			Linear Static	VTSCC	0,
ELU-58			Linear Static	VV	0,
ELU-58	Linear Add	No	Linear Static	VLSSC	0,
ELU-58			Linear Static	VLCSC	0,
ELU-58			Linear Static	TU-DIL	0,
ELU-58			Linear Static	TU-CON	0,315
ELU-58			Linear Static	GRA-HEAT	0,9
ELU-58			Linear Static	GRA-COOL	0,
ELU-59			Linear Static	PP	1,
ELU-59			Linear Static	CM-TUBERIA	1,
ELU-59			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-59			Linear Static	SCU	1,35
ELU-59	Linear Add	No	Linear Static	VTSSC	0,
ELU-59			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-59	Linear Add	No	Linear Static	VV	0,
ELU-59			Linear Static	VLSSC	0,
ELU-59			Linear Static	VLSC	0,
ELU-59			Linear Static	TU-DIL	0,315
ELU-59			Linear Static	TU-CON	0,
ELU-59			Linear Static	GRA-HEAT	0,
ELU-59			Linear Static	GRA-COOL	0,9
ELU-60			Linear Static	PP	1,
ELU-60			Linear Static	CM-TUBERIA	1,
ELU-60			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-60	Linear Add	No	Linear Static	SCU	1,35
ELU-60			Linear Static	VTSSC	0,
ELU-60			Linear Static	VTSC	0,
ELU-60			Linear Static	VV	0,
ELU-60			Linear Static	VLSSC	0,
ELU-60			Linear Static	VLSC	0,
ELU-60			Linear Static	TU-DIL	0,
ELU-60			Linear Static	TU-CON	0,315
ELU-60			Linear Static	GRA-HEAT	0,
ELU-60			Linear Static	GRA-COOL	0,9
ELU-61	Linear Add	No	Linear Static	PP	1,
ELU-61			Linear Static	CM-TUBERIA	1,
ELU-61			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-61			Linear Static	SCU	1,35
ELU-61			Linear Static	VTSSC	0,
ELU-61			Linear Static	VTSC	0,
ELU-61			Linear Static	VV	0,
ELU-61			Linear Static	VLSSC	0,
ELU-61			Linear Static	VLSC	0,
ELU-61			Linear Static	TU-DIL	0,9
ELU-61	Linear Add	No	Linear Static	TU-CON	0,
ELU-61			Linear Static	GRA-HEAT	0,675
ELU-61			Linear Static	GRA-COOL	0,
ELU-62			Linear Static	PP	1,
ELU-62			Linear Static	CM-TUBERIA	1,
ELU-62			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-62			Linear Static	SCU	1,35
ELU-62			Linear Static	VTSSC	0,
ELU-62			Linear Static	VTSC	0,
ELU-62			Linear Static	VV	0,
ELU-62	Linear Add	No	Linear Static	VLSSC	0,
ELU-62			Linear Static	VLSC	0,
ELU-62			Linear Static	TU-DIL	0,
ELU-62			Linear Static	TU-CON	0,9
ELU-62			Linear Static	GRA-HEAT	0,675
ELU-62			Linear Static	GRA-COOL	0,
ELU-63			Linear Static	PP	1,
ELU-63			Linear Static	CM-TUBERIA	1,
ELU-63			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-63			Linear Static	SCU	1,35
ELU-63	Linear Add	No	Linear Static	VTSSC	0,
ELU-63			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-63	Linear Add	No	Linear Static	VV	0,
ELU-63			Linear Static	VLSSC	0,
ELU-63			Linear Static	VLCSC	0,
ELU-63			Linear Static	TU-DIL	0,9
ELU-63			Linear Static	TU-CON	0,
ELU-63			Linear Static	GRA-HEAT	0,
ELU-63			Linear Static	GRA-COOL	0,675
ELU-64			Linear Static	PP	1,
ELU-64			Linear Static	CM-TUBERIA	1,
ELU-64			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-64	Linear Add	No	Linear Static	SCU	1,35
ELU-64			Linear Static	VTSSC	0,
ELU-64			Linear Static	VTSCC	0,
ELU-64			Linear Static	VV	0,
ELU-64			Linear Static	VLSSC	0,
ELU-64			Linear Static	VLCSC	0,
ELU-64			Linear Static	TU-DIL	0,
ELU-64			Linear Static	TU-CON	0,9
ELU-64			Linear Static	GRA-HEAT	0,
ELU-64			Linear Static	GRA-COOL	0,675
ELU-65	Linear Add	No	Linear Static	PP	1,
ELU-65			Linear Static	CM-TUBERIA	1,
ELU-65			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-65			Linear Static	SCU	1,35
ELU-65			Linear Static	VTSSC	0,
ELU-65			Linear Static	VTSCC	0,45
ELU-65			Linear Static	VV	0,
ELU-65			Linear Static	VLSSC	0,
ELU-65			Linear Static	VLCSC	0,
ELU-65			Linear Static	TU-DIL	0,315
ELU-65	Linear Add	No	Linear Static	TU-CON	0,
ELU-65			Linear Static	GRA-HEAT	0,9
ELU-65			Linear Static	GRA-COOL	0,
ELU-66			Linear Static	PP	1,
ELU-66			Linear Static	CM-TUBERIA	1,
ELU-66			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-66			Linear Static	SCU	1,35
ELU-66			Linear Static	VTSSC	0,
ELU-66			Linear Static	VTSCC	0,45
ELU-66			Linear Static	VV	0,
ELU-66	Linear Add	No	Linear Static	VLSSC	0,
ELU-66			Linear Static	VLCSC	0,
ELU-66			Linear Static	TU-DIL	0,
ELU-66			Linear Static	TU-CON	0,315
ELU-66			Linear Static	GRA-HEAT	0,9
ELU-66			Linear Static	GRA-COOL	0,
ELU-67			Linear Static	PP	1,
ELU-67			Linear Static	CM-TUBERIA	1,
ELU-67			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-67			Linear Static	SCU	1,35
ELU-67	Linear Add	No	Linear Static	VTSSC	0,
ELU-67			Linear Static	VTSCC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-67	Linear Add	No	Linear Static	VV	0,
ELU-67			Linear Static	VLSSC	0,
ELU-67			Linear Static	VLSC	0,
ELU-67			Linear Static	TU-DIL	0,315
ELU-67			Linear Static	TU-CON	0,
ELU-67			Linear Static	GRA-HEAT	0,
ELU-67			Linear Static	GRA-COOL	0,9
ELU-68			Linear Static	PP	1,
ELU-68			Linear Static	CM-TUBERIA	1,
ELU-68			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-68	Linear Add	No	Linear Static	SCU	1,35
ELU-68			Linear Static	VTSSC	0,
ELU-68			Linear Static	VTSC	0,45
ELU-68			Linear Static	VV	0,
ELU-68			Linear Static	VLSSC	0,
ELU-68			Linear Static	VLSC	0,
ELU-68			Linear Static	TU-DIL	0,
ELU-68			Linear Static	TU-CON	0,315
ELU-68			Linear Static	GRA-HEAT	0,
ELU-68			Linear Static	GRA-COOL	0,9
ELU-69	Linear Add	No	Linear Static	PP	1,
ELU-69			Linear Static	CM-TUBERIA	1,
ELU-69			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-69			Linear Static	SCU	1,35
ELU-69			Linear Static	VTSSC	0,
ELU-69			Linear Static	VTSC	0,45
ELU-69			Linear Static	VV	0,
ELU-69			Linear Static	VLSSC	0,
ELU-69			Linear Static	VLSC	0,
ELU-69			Linear Static	TU-DIL	0,9
ELU-69	Linear Add	No	Linear Static	TU-CON	0,
ELU-69			Linear Static	GRA-HEAT	0,675
ELU-69			Linear Static	GRA-COOL	0,
ELU-70			Linear Static	PP	1,
ELU-70			Linear Static	CM-TUBERIA	1,
ELU-70			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-70			Linear Static	SCU	1,35
ELU-70			Linear Static	VTSSC	0,
ELU-70			Linear Static	VTSC	0,45
ELU-70			Linear Static	VV	0,
ELU-70	Linear Add	No	Linear Static	VLSSC	0,
ELU-70			Linear Static	VLSC	0,
ELU-70			Linear Static	TU-DIL	0,
ELU-70			Linear Static	TU-CON	0,9
ELU-70			Linear Static	GRA-HEAT	0,675
ELU-70			Linear Static	GRA-COOL	0,
ELU-71			Linear Static	PP	1,
ELU-71			Linear Static	CM-TUBERIA	1,
ELU-71			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-71			Linear Static	SCU	1,35
ELU-71	Linear Add	No	Linear Static	VTSSC	0,
ELU-71			Linear Static	VTSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-71	Linear Add	No	Linear Static	VV	0,
ELU-71			Linear Static	VLSSC	0,
ELU-71			Linear Static	VLCSC	0,
ELU-71			Linear Static	TU-DIL	0,9
ELU-71			Linear Static	TU-CON	0,
ELU-71			Linear Static	GRA-HEAT	0,
ELU-71			Linear Static	GRA-COOL	0,675
ELU-72			Linear Static	PP	1,
ELU-72			Linear Static	CM-TUBERIA	1,
ELU-72			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-72	Linear Add	No	Linear Static	SCU	1,35
ELU-72			Linear Static	VTSSC	0,
ELU-72			Linear Static	VTSCC	0,45
ELU-72			Linear Static	VV	0,
ELU-72			Linear Static	VLSSC	0,
ELU-72			Linear Static	VLCSC	0,
ELU-72			Linear Static	TU-DIL	0,
ELU-72			Linear Static	TU-CON	0,9
ELU-72			Linear Static	GRA-HEAT	0,
ELU-72			Linear Static	GRA-COOL	0,675
ELU-73	Linear Add	No	Linear Static	PP	1,
ELU-73			Linear Static	CM-TUBERIA	1,
ELU-73			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-73			Linear Static	SCU	1,35
ELU-73			Linear Static	VTSSC	0,
ELU-73			Linear Static	VTSCC	0,45
ELU-73			Linear Static	VV	0,45
ELU-73			Linear Static	VLSSC	0,
ELU-73			Linear Static	VLCSC	0,
ELU-73			Linear Static	TU-DIL	0,315
ELU-73	Linear Add	No	Linear Static	TU-CON	0,
ELU-73			Linear Static	GRA-HEAT	0,9
ELU-73			Linear Static	GRA-COOL	0,
ELU-74			Linear Static	PP	1,
ELU-74			Linear Static	CM-TUBERIA	1,
ELU-74			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-74			Linear Static	SCU	1,35
ELU-74			Linear Static	VTSSC	0,
ELU-74			Linear Static	VTSCC	0,45
ELU-74			Linear Static	VV	0,45
ELU-74	Linear Add	No	Linear Static	VLSSC	0,
ELU-74			Linear Static	VLCSC	0,
ELU-74			Linear Static	TU-DIL	0,
ELU-74			Linear Static	TU-CON	0,315
ELU-74			Linear Static	GRA-HEAT	0,9
ELU-74			Linear Static	GRA-COOL	0,
ELU-75			Linear Static	PP	1,
ELU-75			Linear Static	CM-TUBERIA	1,
ELU-75			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-75			Linear Static	SCU	1,35
ELU-75	Linear Add	No	Linear Static	VTSSC	0,
ELU-75			Linear Static	VTSCC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-75	Linear Add	No	Linear Static	VV	0,45
ELU-75			Linear Static	VLSSC	0,
ELU-75			Linear Static	VLSC	0,
ELU-75			Linear Static	TU-DIL	0,315
ELU-75			Linear Static	TU-CON	0,
ELU-75			Linear Static	GRA-HEAT	0,
ELU-75			Linear Static	GRA-COOL	0,9
ELU-76			Linear Static	PP	1,
ELU-76			Linear Static	CM-TUBERIA	1,
ELU-76			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-76	Linear Add	No	Linear Static	SCU	1,35
ELU-76			Linear Static	VTSSC	0,
ELU-76			Linear Static	VTSC	0,45
ELU-76			Linear Static	VV	0,45
ELU-76			Linear Static	VLSSC	0,
ELU-76			Linear Static	VLSC	0,
ELU-76			Linear Static	TU-DIL	0,
ELU-76			Linear Static	TU-CON	0,315
ELU-76			Linear Static	GRA-HEAT	0,
ELU-76			Linear Static	GRA-COOL	0,9
ELU-77	Linear Add	No	Linear Static	PP	1,
ELU-77			Linear Static	CM-TUBERIA	1,
ELU-77			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-77			Linear Static	SCU	1,35
ELU-77			Linear Static	VTSSC	0,
ELU-77			Linear Static	VTSC	0,45
ELU-77			Linear Static	VV	0,45
ELU-77			Linear Static	VLSSC	0,
ELU-77			Linear Static	VLSC	0,
ELU-77			Linear Static	TU-DIL	0,9
ELU-77	Linear Add	No	Linear Static	TU-CON	0,
ELU-77			Linear Static	GRA-HEAT	0,675
ELU-77			Linear Static	GRA-COOL	0,
ELU-78			Linear Static	PP	1,
ELU-78			Linear Static	CM-TUBERIA	1,
ELU-78			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-78			Linear Static	SCU	1,35
ELU-78			Linear Static	VTSSC	0,
ELU-78			Linear Static	VTSC	0,45
ELU-78			Linear Static	VV	0,45
ELU-78	Linear Add	No	Linear Static	VLSSC	0,
ELU-78			Linear Static	VLSC	0,
ELU-78			Linear Static	TU-DIL	0,
ELU-78			Linear Static	TU-CON	0,9
ELU-78			Linear Static	GRA-HEAT	0,675
ELU-78			Linear Static	GRA-COOL	0,
ELU-79			Linear Static	PP	1,
ELU-79			Linear Static	CM-TUBERIA	1,
ELU-79			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-79			Linear Static	SCU	1,35
ELU-79	Linear Add	No	Linear Static	VTSSC	0,
ELU-79			Linear Static	VTSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-79	Linear Add	No	Linear Static	VV	0,45
ELU-79			Linear Static	VLSSC	0,
ELU-79			Linear Static	VLCSC	0,
ELU-79			Linear Static	TU-DIL	0,9
ELU-79			Linear Static	TU-CON	0,
ELU-79			Linear Static	GRA-HEAT	0,
ELU-79			Linear Static	GRA-COOL	0,675
ELU-80			Linear Static	PP	1,
ELU-80			Linear Static	CM-TUBERIA	1,
ELU-80			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-80	Linear Add	No	Linear Static	SCU	1,35
ELU-80			Linear Static	VTSSC	0,
ELU-80			Linear Static	VTSCC	0,45
ELU-80			Linear Static	VV	0,45
ELU-80			Linear Static	VLSSC	0,
ELU-80			Linear Static	VLCSC	0,
ELU-80			Linear Static	TU-DIL	0,
ELU-80			Linear Static	TU-CON	0,9
ELU-80			Linear Static	GRA-HEAT	0,
ELU-80			Linear Static	GRA-COOL	0,675
ELU-81	Linear Add	No	Linear Static	PP	1,
ELU-81			Linear Static	CM-TUBERIA	1,
ELU-81			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-81			Linear Static	SCU	0,
ELU-81			Linear Static	VTSSC	0,45
ELU-81			Linear Static	VTSCC	0,
ELU-81			Linear Static	VV	0,
ELU-81			Linear Static	VLSSC	0,
ELU-81			Linear Static	VLCSC	0,
ELU-81			Linear Static	TU-DIL	0,315
ELU-81	Linear Add	No	Linear Static	TU-CON	0,
ELU-81			Linear Static	GRA-HEAT	0,9
ELU-81			Linear Static	GRA-COOL	0,
ELU-82			Linear Static	PP	1,
ELU-82			Linear Static	CM-TUBERIA	1,
ELU-82			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-82			Linear Static	SCU	0,
ELU-82			Linear Static	VTSSC	0,45
ELU-82			Linear Static	VTSCC	0,
ELU-82			Linear Static	VV	0,
ELU-82	Linear Add	No	Linear Static	VLSSC	0,
ELU-82			Linear Static	VLCSC	0,
ELU-82			Linear Static	TU-DIL	0,
ELU-82			Linear Static	TU-CON	0,315
ELU-82			Linear Static	GRA-HEAT	0,9
ELU-82			Linear Static	GRA-COOL	0,
ELU-83			Linear Static	PP	1,
ELU-83			Linear Static	CM-TUBERIA	1,
ELU-83			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-83			Linear Static	SCU	0,
ELU-83	Linear Add	No	Linear Static	VTSSC	0,45
ELU-83			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-83	Linear Add	No	Linear Static	VV	0,
ELU-83			Linear Static	VLSSC	0,
ELU-83			Linear Static	VLSCC	0,
ELU-83			Linear Static	TU-DIL	0,315
ELU-83			Linear Static	TU-CON	0,
ELU-83			Linear Static	GRA-HEAT	0,
ELU-83			Linear Static	GRA-COOL	0,9
ELU-84			Linear Static	PP	1,
ELU-84			Linear Static	CM-TUBERIA	1,
ELU-84			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-84	Linear Add	No	Linear Static	SCU	0,
ELU-84			Linear Static	VTSSC	0,45
ELU-84			Linear Static	VTSCC	0,
ELU-84			Linear Static	VV	0,
ELU-84			Linear Static	VLSSC	0,
ELU-84			Linear Static	VLSCC	0,
ELU-84			Linear Static	TU-DIL	0,
ELU-84			Linear Static	TU-CON	0,315
ELU-84			Linear Static	GRA-HEAT	0,
ELU-84			Linear Static	GRA-COOL	0,9
ELU-85	Linear Add	No	Linear Static	PP	1,
ELU-85			Linear Static	CM-TUBERIA	1,
ELU-85			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-85			Linear Static	SCU	0,
ELU-85			Linear Static	VTSSC	0,45
ELU-85			Linear Static	VTSCC	0,
ELU-85			Linear Static	VV	0,
ELU-85			Linear Static	VLSSC	0,
ELU-85			Linear Static	VLSCC	0,
ELU-85			Linear Static	TU-DIL	0,9
ELU-85	Linear Add	No	Linear Static	TU-CON	0,
ELU-85			Linear Static	GRA-HEAT	0,675
ELU-85			Linear Static	GRA-COOL	0,
ELU-86			Linear Static	PP	1,
ELU-86			Linear Static	CM-TUBERIA	1,
ELU-86			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-86			Linear Static	SCU	0,
ELU-86			Linear Static	VTSSC	0,45
ELU-86			Linear Static	VTSCC	0,
ELU-86			Linear Static	VV	0,
ELU-86	Linear Add	No	Linear Static	VLSSC	0,
ELU-86			Linear Static	VLSCC	0,
ELU-86			Linear Static	TU-DIL	0,
ELU-86			Linear Static	TU-CON	0,9
ELU-86			Linear Static	GRA-HEAT	0,675
ELU-86			Linear Static	GRA-COOL	0,
ELU-87			Linear Static	PP	1,
ELU-87			Linear Static	CM-TUBERIA	1,
ELU-87			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-87			Linear Static	SCU	0,
ELU-87	Linear Add	No	Linear Static	VTSSC	0,45
ELU-87			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-87	Linear Add	No	Linear Static	VV	0,
ELU-87			Linear Static	VLSSC	0,
ELU-87			Linear Static	VLCSC	0,
ELU-87			Linear Static	TU-DIL	0,9
ELU-87			Linear Static	TU-CON	0,
ELU-87			Linear Static	GRA-HEAT	0,
ELU-87			Linear Static	GRA-COOL	0,675
ELU-88			Linear Static	PP	1,
ELU-88			Linear Static	CM-TUBERIA	1,
ELU-88			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-88	Linear Add	No	Linear Static	SCU	0,
ELU-88			Linear Static	VTSSC	0,45
ELU-88			Linear Static	VTSCC	0,
ELU-88			Linear Static	VV	0,
ELU-88			Linear Static	VLSSC	0,
ELU-88			Linear Static	VLCSC	0,
ELU-88			Linear Static	TU-DIL	0,
ELU-88			Linear Static	TU-CON	0,9
ELU-88			Linear Static	GRA-HEAT	0,
ELU-88			Linear Static	GRA-COOL	0,675
ELU-89	Linear Add	No	Linear Static	PP	1,
ELU-89			Linear Static	CM-TUBERIA	1,
ELU-89			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-89			Linear Static	SCU	0,
ELU-89			Linear Static	VTSSC	0,45
ELU-89			Linear Static	VTSCC	0,
ELU-89			Linear Static	VV	0,45
ELU-89			Linear Static	VLSSC	0,
ELU-89			Linear Static	VLCSC	0,
ELU-89			Linear Static	TU-DIL	0,315
ELU-89	Linear Add	No	Linear Static	TU-CON	0,
ELU-89			Linear Static	GRA-HEAT	0,9
ELU-89			Linear Static	GRA-COOL	0,
ELU-90			Linear Static	PP	1,
ELU-90			Linear Static	CM-TUBERIA	1,
ELU-90			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-90			Linear Static	SCU	0,
ELU-90			Linear Static	VTSSC	0,45
ELU-90			Linear Static	VTSCC	0,
ELU-90			Linear Static	VV	0,45
ELU-90	Linear Add	No	Linear Static	VLSSC	0,
ELU-90			Linear Static	VLCSC	0,
ELU-90			Linear Static	TU-DIL	0,
ELU-90			Linear Static	TU-CON	0,315
ELU-90			Linear Static	GRA-HEAT	0,9
ELU-90			Linear Static	GRA-COOL	0,
ELU-91			Linear Static	PP	1,
ELU-91			Linear Static	CM-TUBERIA	1,
ELU-91			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-91			Linear Static	SCU	0,
ELU-91	Linear Add	No	Linear Static	VTSSC	0,45
ELU-91			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-91	Linear Add	No	Linear Static	VV	0,45
ELU-91			Linear Static	VLSSC	0,
ELU-91			Linear Static	VLSC	0,
ELU-91			Linear Static	TU-DIL	0,315
ELU-91			Linear Static	TU-CON	0,
ELU-91			Linear Static	GRA-HEAT	0,
ELU-91			Linear Static	GRA-COOL	0,9
ELU-92			Linear Static	PP	1,
ELU-92			Linear Static	CM-TUBERIA	1,
ELU-92			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-92	Linear Add	No	Linear Static	SCU	0,
ELU-92			Linear Static	VTSSC	0,45
ELU-92			Linear Static	VTSC	0,
ELU-92			Linear Static	VV	0,45
ELU-92			Linear Static	VLSSC	0,
ELU-92			Linear Static	VLSC	0,
ELU-92			Linear Static	TU-DIL	0,
ELU-92			Linear Static	TU-CON	0,315
ELU-92			Linear Static	GRA-HEAT	0,
ELU-92			Linear Static	GRA-COOL	0,9
ELU-93	Linear Add	No	Linear Static	PP	1,
ELU-93			Linear Static	CM-TUBERIA	1,
ELU-93			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-93			Linear Static	SCU	0,
ELU-93			Linear Static	VTSSC	0,45
ELU-93			Linear Static	VTSC	0,
ELU-93			Linear Static	VV	0,45
ELU-93			Linear Static	VLSSC	0,
ELU-93			Linear Static	VLSC	0,
ELU-93			Linear Static	TU-DIL	0,9
ELU-93	Linear Add	No	Linear Static	TU-CON	0,
ELU-93			Linear Static	GRA-HEAT	0,675
ELU-93			Linear Static	GRA-COOL	0,
ELU-94			Linear Static	PP	1,
ELU-94			Linear Static	CM-TUBERIA	1,
ELU-94			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-94			Linear Static	SCU	0,
ELU-94			Linear Static	VTSSC	0,45
ELU-94			Linear Static	VTSC	0,
ELU-94			Linear Static	VV	0,45
ELU-94	Linear Add	No	Linear Static	VLSSC	0,
ELU-94			Linear Static	VLSC	0,
ELU-94			Linear Static	TU-DIL	0,
ELU-94			Linear Static	TU-CON	0,9
ELU-94			Linear Static	GRA-HEAT	0,675
ELU-94			Linear Static	GRA-COOL	0,
ELU-95			Linear Static	PP	1,
ELU-95			Linear Static	CM-TUBERIA	1,
ELU-95			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-95			Linear Static	SCU	0,
ELU-95	Linear Add	No	Linear Static	VTSSC	0,45
ELU-95			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-95	Linear Add	No	Linear Static	VV	0,45
ELU-95			Linear Static	VLSSC	0,
ELU-95			Linear Static	VLCSC	0,
ELU-95			Linear Static	TU-DIL	0,9
ELU-95			Linear Static	TU-CON	0,
ELU-95			Linear Static	GRA-HEAT	0,
ELU-95			Linear Static	GRA-COOL	0,675
ELU-96			Linear Static	PP	1,
ELU-96			Linear Static	CM-TUBERIA	1,
ELU-96			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-96	Linear Add	No	Linear Static	SCU	0,
ELU-96			Linear Static	VTSSC	0,45
ELU-96			Linear Static	UTCSC	0,
ELU-96			Linear Static	VV	0,45
ELU-96			Linear Static	VLSSC	0,
ELU-96			Linear Static	VLCSC	0,
ELU-96			Linear Static	TU-DIL	0,
ELU-96			Linear Static	TU-CON	0,9
ELU-96			Linear Static	GRA-HEAT	0,
ELU-96			Linear Static	GRA-COOL	0,675
ELU-97	Linear Add	No	Linear Static	PP	1,
ELU-97			Linear Static	CM-TUBERIA	1,
ELU-97			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-97			Linear Static	SCU	0,
ELU-97			Linear Static	VTSSC	0,
ELU-97			Linear Static	UTCSC	0,
ELU-97			Linear Static	VV	0,
ELU-97			Linear Static	VLSSC	0,45
ELU-97			Linear Static	VLCSC	0,
ELU-97			Linear Static	TU-DIL	0,315
ELU-97	Linear Add	No	Linear Static	TU-CON	0,
ELU-97			Linear Static	GRA-HEAT	0,9
ELU-97			Linear Static	GRA-COOL	0,
ELU-98			Linear Static	PP	1,
ELU-98			Linear Static	CM-TUBERIA	1,
ELU-98			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-98			Linear Static	SCU	0,
ELU-98			Linear Static	VTSSC	0,
ELU-98			Linear Static	UTCSC	0,
ELU-98			Linear Static	VV	0,
ELU-98	Linear Add	No	Linear Static	VLSSC	0,45
ELU-98			Linear Static	VLCSC	0,
ELU-98			Linear Static	TU-DIL	0,
ELU-98			Linear Static	TU-CON	0,315
ELU-98			Linear Static	GRA-HEAT	0,9
ELU-98			Linear Static	GRA-COOL	0,
ELU-99			Linear Static	PP	1,
ELU-99			Linear Static	CM-TUBERIA	1,
ELU-99			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-99			Linear Static	SCU	0,
ELU-99	Linear Add	No	Linear Static	VTSSC	0,
ELU-99			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-99	Linear Add	No	Linear Static	VV	0,
ELU-99			Linear Static	VLSSC	0,45
ELU-99			Linear Static	VLSC	0,
ELU-99			Linear Static	TU-DIL	0,315
ELU-99			Linear Static	TU-CON	0,
ELU-99			Linear Static	GRA-HEAT	0,
ELU-99			Linear Static	GRA-COOL	0,9
ELU-100			Linear Static	PP	1,
ELU-100			Linear Static	CM-TUBERIA	1,
ELU-100			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-100	Linear Add	No	Linear Static	SCU	0,
ELU-100			Linear Static	VTSSC	0,
ELU-100			Linear Static	VTSC	0,
ELU-100			Linear Static	VV	0,
ELU-100			Linear Static	VLSSC	0,45
ELU-100			Linear Static	VLSC	0,
ELU-100			Linear Static	TU-DIL	0,
ELU-100			Linear Static	TU-CON	0,315
ELU-100			Linear Static	GRA-HEAT	0,
ELU-100			Linear Static	GRA-COOL	0,9
ELU-101	Linear Add	No	Linear Static	PP	1,
ELU-101			Linear Static	CM-TUBERIA	1,
ELU-101			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-101			Linear Static	SCU	0,
ELU-101			Linear Static	VTSSC	0,
ELU-101			Linear Static	VTSC	0,
ELU-101			Linear Static	VV	0,
ELU-101			Linear Static	VLSSC	0,45
ELU-101			Linear Static	VLSC	0,
ELU-101			Linear Static	TU-DIL	0,9
ELU-101	Linear Add	No	Linear Static	TU-CON	0,
ELU-101			Linear Static	GRA-HEAT	0,675
ELU-101			Linear Static	GRA-COOL	0,
ELU-102			Linear Static	PP	1,
ELU-102			Linear Static	CM-TUBERIA	1,
ELU-102			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-102			Linear Static	SCU	0,
ELU-102			Linear Static	VTSSC	0,
ELU-102			Linear Static	VTSC	0,
ELU-102			Linear Static	VV	0,
ELU-102	Linear Add	No	Linear Static	VLSSC	0,45
ELU-102			Linear Static	VLSC	0,
ELU-102			Linear Static	TU-DIL	0,
ELU-102			Linear Static	TU-CON	0,9
ELU-102			Linear Static	GRA-HEAT	0,675
ELU-102			Linear Static	GRA-COOL	0,
ELU-103			Linear Static	PP	1,
ELU-103			Linear Static	CM-TUBERIA	1,
ELU-103			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-103			Linear Static	SCU	0,
ELU-103	Linear Add	No	Linear Static	VTSSC	0,
ELU-103			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-103	Linear Add	No	Linear Static	VV	0,
ELU-103			Linear Static	VLSSC	0,45
ELU-103			Linear Static	VLCSC	0,
ELU-103			Linear Static	TU-DIL	0,9
ELU-103			Linear Static	TU-CON	0,
ELU-103			Linear Static	GRA-HEAT	0,
ELU-103			Linear Static	GRA-COOL	0,675
ELU-104			Linear Static	PP	1,
ELU-104			Linear Static	CM-TUBERIA	1,
ELU-104	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELU-104			Linear Static	SCU	0,
ELU-104			Linear Static	VTSSC	0,
ELU-104			Linear Static	UTCSC	0,
ELU-104			Linear Static	VV	0,
ELU-104			Linear Static	VLSSC	0,45
ELU-104			Linear Static	VLCSC	0,
ELU-104			Linear Static	TU-DIL	0,
ELU-104			Linear Static	TU-CON	0,9
ELU-104	Linear Add	No	Linear Static	GRA-HEAT	0,
ELU-104			Linear Static	GRA-COOL	0,675
ELU-105			Linear Static	PP	1,
ELU-105			Linear Static	CM-TUBERIA	1,
ELU-105			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-105			Linear Static	SCU	1,35
ELU-105			Linear Static	VTSSC	0,
ELU-105			Linear Static	UTCSC	0,
ELU-105			Linear Static	VV	0,
ELU-105	Linear Add	No	Linear Static	VLSSC	0,
ELU-105			Linear Static	VLCSC	0,45
ELU-105			Linear Static	TU-DIL	0,315
ELU-105			Linear Static	TU-CON	0,
ELU-105			Linear Static	GRA-HEAT	0,9
ELU-105			Linear Static	GRA-COOL	0,
ELU-106			Linear Static	PP	1,
ELU-106			Linear Static	CM-TUBERIA	1,
ELU-106			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-106	Linear Add	No	Linear Static	SCU	1,35
ELU-106			Linear Static	VTSSC	0,
ELU-106			Linear Static	UTCSC	0,
ELU-106			Linear Static	VV	0,
ELU-106			Linear Static	VLSSC	0,
ELU-106			Linear Static	VLCSC	0,45
ELU-106			Linear Static	TU-DIL	0,
ELU-106			Linear Static	TU-CON	0,315
ELU-106			Linear Static	GRA-HEAT	0,9
ELU-106	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-107			Linear Static	PP	1,
ELU-107			Linear Static	CM-TUBERIA	1,
ELU-107			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-107			Linear Static	SCU	1,35
ELU-107			Linear Static	VTSSC	0,
ELU-107			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-107	Linear Add	No	Linear Static	VV	0,
ELU-107			Linear Static	VLSSC	0,
ELU-107			Linear Static	VLSC	0,45
ELU-107			Linear Static	TU-DIL	0,315
ELU-107			Linear Static	TU-CON	0,
ELU-107			Linear Static	GRA-HEAT	0,
ELU-107			Linear Static	GRA-COOL	0,9
ELU-108			Linear Static	PP	1,
ELU-108			Linear Static	CM-TUBERIA	1,
ELU-108			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-108	Linear Add	No	Linear Static	SCU	1,35
ELU-108			Linear Static	VTSSC	0,
ELU-108			Linear Static	VTSC	0,
ELU-108			Linear Static	VV	0,
ELU-108			Linear Static	VLSSC	0,
ELU-108			Linear Static	VLSC	0,45
ELU-108			Linear Static	TU-DIL	0,
ELU-108			Linear Static	TU-CON	0,315
ELU-108			Linear Static	GRA-HEAT	0,
ELU-108			Linear Static	GRA-COOL	0,9
ELU-109	Linear Add	No	Linear Static	PP	1,
ELU-109			Linear Static	CM-TUBERIA	1,
ELU-109			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-109			Linear Static	SCU	1,35
ELU-109			Linear Static	VTSSC	0,
ELU-109			Linear Static	VTSC	0,
ELU-109			Linear Static	VV	0,
ELU-109			Linear Static	VLSSC	0,
ELU-109			Linear Static	VLSC	0,45
ELU-109			Linear Static	TU-DIL	0,9
ELU-109	Linear Add	No	Linear Static	TU-CON	0,
ELU-109			Linear Static	GRA-HEAT	0,675
ELU-109			Linear Static	GRA-COOL	0,
ELU-110			Linear Static	PP	1,
ELU-110			Linear Static	CM-TUBERIA	1,
ELU-110			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-110			Linear Static	SCU	1,35
ELU-110			Linear Static	VTSSC	0,
ELU-110			Linear Static	VTSC	0,
ELU-110			Linear Static	VV	0,
ELU-110	Linear Add	No	Linear Static	VLSSC	0,
ELU-110			Linear Static	VLSC	0,45
ELU-110			Linear Static	TU-DIL	0,
ELU-110			Linear Static	TU-CON	0,9
ELU-110			Linear Static	GRA-HEAT	0,675
ELU-110			Linear Static	GRA-COOL	0,
ELU-111			Linear Static	PP	1,
ELU-111			Linear Static	CM-TUBERIA	1,
ELU-111			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-111			Linear Static	SCU	1,35
ELU-111	Linear Add	No	Linear Static	VTSSC	0,
ELU-111			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-111	Linear Add	No	Linear Static	VV	0,
ELU-111			Linear Static	VLSSC	0,
ELU-111			Linear Static	VLCSC	0,45
ELU-111			Linear Static	TU-DIL	0,9
ELU-111			Linear Static	TU-CON	0,
ELU-111			Linear Static	GRA-HEAT	0,
ELU-111			Linear Static	GRA-COOL	0,675
ELU-112			Linear Static	PP	1,
ELU-112			Linear Static	CM-TUBERIA	1,
ELU-112			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-112	Linear Add	No	Linear Static	SCU	1,35
ELU-112			Linear Static	VTSSC	0,
ELU-112			Linear Static	VTSCC	0,
ELU-112			Linear Static	VV	0,
ELU-112			Linear Static	VLSSC	0,
ELU-112			Linear Static	VLCSC	0,45
ELU-112			Linear Static	TU-DIL	0,
ELU-112			Linear Static	TU-CON	0,9
ELU-112			Linear Static	GRA-HEAT	0,
ELU-112			Linear Static	GRA-COOL	0,675
ELU-113	Linear Add	No	Linear Static	PP	1,35
ELU-113			Linear Static	CM-TUBERIA	1,35
ELU-113			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-113			Linear Static	SCU	0,54
ELU-113			Linear Static	VTSSC	0,
ELU-113			Linear Static	VTSCC	0,
ELU-113			Linear Static	VV	0,
ELU-113			Linear Static	VLSSC	0,
ELU-113			Linear Static	VLCSC	0,
ELU-113			Linear Static	TU-DIL	0,315
ELU-113	Linear Add	No	Linear Static	TU-CON	0,
ELU-113			Linear Static	GRA-HEAT	0,9
ELU-113			Linear Static	GRA-COOL	0,
ELU-114			Linear Static	PP	1,35
ELU-114			Linear Static	CM-TUBERIA	1,35
ELU-114			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-114			Linear Static	SCU	0,54
ELU-114			Linear Static	VTSSC	0,
ELU-114			Linear Static	VTSCC	0,
ELU-114			Linear Static	VV	0,
ELU-114	Linear Add	No	Linear Static	VLSSC	0,
ELU-114			Linear Static	VLCSC	0,
ELU-114			Linear Static	TU-DIL	0,
ELU-114			Linear Static	TU-CON	0,315
ELU-114			Linear Static	GRA-HEAT	0,9
ELU-114			Linear Static	GRA-COOL	0,
ELU-115			Linear Static	PP	1,35
ELU-115			Linear Static	CM-TUBERIA	1,35
ELU-115			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-115			Linear Static	SCU	0,54
ELU-115	Linear Add	No	Linear Static	VTSSC	0,
ELU-115			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-115	Linear Add	No	Linear Static	VV	0,
ELU-115			Linear Static	VLSSC	0,
ELU-115			Linear Static	VLSC	0,
ELU-115			Linear Static	TU-DIL	0,315
ELU-115			Linear Static	TU-CON	0,
ELU-115			Linear Static	GRA-HEAT	0,
ELU-115			Linear Static	GRA-COOL	0,9
ELU-116			Linear Static	PP	1,35
ELU-116			Linear Static	CM-TUBERIA	1,35
ELU-116			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-116	Linear Add	No	Linear Static	SCU	0,54
ELU-116			Linear Static	VTSSC	0,
ELU-116			Linear Static	VTSC	0,
ELU-116			Linear Static	VV	0,
ELU-116			Linear Static	VLSSC	0,
ELU-116			Linear Static	VLSC	0,
ELU-116			Linear Static	TU-DIL	0,
ELU-116			Linear Static	TU-CON	0,315
ELU-116			Linear Static	GRA-HEAT	0,
ELU-116			Linear Static	GRA-COOL	0,9
ELU-117	Linear Add	No	Linear Static	PP	1,35
ELU-117			Linear Static	CM-TUBERIA	1,35
ELU-117			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-117			Linear Static	SCU	0,54
ELU-117			Linear Static	VTSSC	0,
ELU-117			Linear Static	VTSC	0,
ELU-117			Linear Static	VV	0,
ELU-117			Linear Static	VLSSC	0,
ELU-117			Linear Static	VLSC	0,
ELU-117			Linear Static	TU-DIL	0,9
ELU-117	Linear Add	No	Linear Static	TU-CON	0,
ELU-117			Linear Static	GRA-HEAT	0,675
ELU-117			Linear Static	GRA-COOL	0,
ELU-118			Linear Static	PP	1,35
ELU-118			Linear Static	CM-TUBERIA	1,35
ELU-118			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-118			Linear Static	SCU	0,54
ELU-118			Linear Static	VTSSC	0,
ELU-118			Linear Static	VTSC	0,
ELU-118			Linear Static	VV	0,
ELU-118	Linear Add	No	Linear Static	VLSSC	0,
ELU-118			Linear Static	VLSC	0,
ELU-118			Linear Static	TU-DIL	0,
ELU-118			Linear Static	TU-CON	0,9
ELU-118			Linear Static	GRA-HEAT	0,675
ELU-118			Linear Static	GRA-COOL	0,
ELU-119			Linear Static	PP	1,35
ELU-119			Linear Static	CM-TUBERIA	1,35
ELU-119			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-119			Linear Static	SCU	0,54
ELU-119	Linear Add	No	Linear Static	VTSSC	0,
ELU-119			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-119	Linear Add	No	Linear Static	VV	0,
ELU-119			Linear Static	VLSSC	0,
ELU-119			Linear Static	VLCSC	0,
ELU-119			Linear Static	TU-DIL	0,9
ELU-119			Linear Static	TU-CON	0,
ELU-119			Linear Static	GRA-HEAT	0,
ELU-119			Linear Static	GRA-COOL	0,675
ELU-120			Linear Static	PP	1,35
ELU-120			Linear Static	CM-TUBERIA	1,35
ELU-120			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-120	Linear Add	No	Linear Static	SCU	0,54
ELU-120			Linear Static	VTSSC	0,
ELU-120			Linear Static	VTSCC	0,
ELU-120			Linear Static	VV	0,
ELU-120			Linear Static	VLSSC	0,
ELU-120			Linear Static	VLCSC	0,
ELU-120			Linear Static	TU-DIL	0,
ELU-120			Linear Static	TU-CON	0,9
ELU-120			Linear Static	GRA-HEAT	0,
ELU-120			Linear Static	GRA-COOL	0,675
ELU-121	Linear Add	No	Linear Static	PP	1,35
ELU-121			Linear Static	CM-TUBERIA	1,35
ELU-121			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-121			Linear Static	SCU	0,54
ELU-121			Linear Static	VTSSC	0,
ELU-121			Linear Static	VTSCC	1,5
ELU-121			Linear Static	VV	0,
ELU-121			Linear Static	VLSSC	0,
ELU-121			Linear Static	VLCSC	0,
ELU-121			Linear Static	TU-DIL	0,315
ELU-121	Linear Add	No	Linear Static	TU-CON	0,
ELU-121			Linear Static	GRA-HEAT	0,9
ELU-121			Linear Static	GRA-COOL	0,
ELU-122			Linear Static	PP	1,35
ELU-122			Linear Static	CM-TUBERIA	1,35
ELU-122			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-122			Linear Static	SCU	0,54
ELU-122			Linear Static	VTSSC	0,
ELU-122			Linear Static	VTSCC	1,5
ELU-122			Linear Static	VV	0,
ELU-122	Linear Add	No	Linear Static	VLSSC	0,
ELU-122			Linear Static	VLCSC	0,
ELU-122			Linear Static	TU-DIL	0,
ELU-122			Linear Static	TU-CON	0,315
ELU-122			Linear Static	GRA-HEAT	0,9
ELU-122			Linear Static	GRA-COOL	0,
ELU-123			Linear Static	PP	1,35
ELU-123			Linear Static	CM-TUBERIA	1,35
ELU-123			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-123			Linear Static	SCU	0,54
ELU-123	Linear Add	No	Linear Static	VTSSC	0,
ELU-123			Linear Static	VTSCC	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-123	Linear Add	No	Linear Static	VV	0,
ELU-123			Linear Static	VLSSC	0,
ELU-123			Linear Static	VLSC	0,
ELU-123			Linear Static	TU-DIL	0,315
ELU-123			Linear Static	TU-CON	0,
ELU-123			Linear Static	GRA-HEAT	0,
ELU-123			Linear Static	GRA-COOL	0,9
ELU-124			Linear Static	PP	1,35
ELU-124			Linear Static	CM-TUBERIA	1,35
ELU-124			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-124	Linear Add	No	Linear Static	SCU	0,54
ELU-124			Linear Static	VTSSC	0,
ELU-124			Linear Static	VTSC	1,5
ELU-124			Linear Static	VV	0,
ELU-124			Linear Static	VLSSC	0,
ELU-124			Linear Static	VLSC	0,
ELU-124			Linear Static	TU-DIL	0,
ELU-124			Linear Static	TU-CON	0,315
ELU-124			Linear Static	GRA-HEAT	0,
ELU-124			Linear Static	GRA-COOL	0,9
ELU-125	Linear Add	No	Linear Static	PP	1,35
ELU-125			Linear Static	CM-TUBERIA	1,35
ELU-125			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-125			Linear Static	SCU	0,54
ELU-125			Linear Static	VTSSC	0,
ELU-125			Linear Static	VTSC	1,5
ELU-125			Linear Static	VV	0,
ELU-125			Linear Static	VLSSC	0,
ELU-125			Linear Static	VLSC	0,
ELU-125			Linear Static	TU-DIL	0,9
ELU-125	Linear Add	No	Linear Static	TU-CON	0,
ELU-125			Linear Static	GRA-HEAT	0,675
ELU-125			Linear Static	GRA-COOL	0,
ELU-126			Linear Static	PP	1,35
ELU-126			Linear Static	CM-TUBERIA	1,35
ELU-126			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-126			Linear Static	SCU	0,54
ELU-126			Linear Static	VTSSC	0,
ELU-126			Linear Static	VTSC	1,5
ELU-126			Linear Static	VV	0,
ELU-126	Linear Add	No	Linear Static	VLSSC	0,
ELU-126			Linear Static	VLSC	0,
ELU-126			Linear Static	TU-DIL	0,
ELU-126			Linear Static	TU-CON	0,9
ELU-126			Linear Static	GRA-HEAT	0,675
ELU-126			Linear Static	GRA-COOL	0,
ELU-127			Linear Static	PP	1,35
ELU-127			Linear Static	CM-TUBERIA	1,35
ELU-127			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-127			Linear Static	SCU	0,54
ELU-127	Linear Add	No	Linear Static	VTSSC	0,
ELU-127			Linear Static	VTSC	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-127	Linear Add	No	Linear Static	VV	0,
ELU-127			Linear Static	VLSSC	0,
ELU-127			Linear Static	VLCSC	0,
ELU-127			Linear Static	TU-DIL	0,9
ELU-127			Linear Static	TU-CON	0,
ELU-127			Linear Static	GRA-HEAT	0,
ELU-127			Linear Static	GRA-COOL	0,675
ELU-128			Linear Static	PP	1,35
ELU-128			Linear Static	CM-TUBERIA	1,35
ELU-128			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-128	Linear Add	No	Linear Static	SCU	0,54
ELU-128			Linear Static	VTSSC	0,
ELU-128			Linear Static	VTSCC	1,5
ELU-128			Linear Static	VV	0,
ELU-128			Linear Static	VLSSC	0,
ELU-128			Linear Static	VLCSC	0,
ELU-128			Linear Static	TU-DIL	0,
ELU-128			Linear Static	TU-CON	0,9
ELU-128			Linear Static	GRA-HEAT	0,
ELU-128			Linear Static	GRA-COOL	0,675
ELU-129	Linear Add	No	Linear Static	PP	1,35
ELU-129			Linear Static	CM-TUBERIA	1,35
ELU-129			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-129			Linear Static	SCU	0,54
ELU-129			Linear Static	VTSSC	0,
ELU-129			Linear Static	VTSCC	1,5
ELU-129			Linear Static	VV	1,5
ELU-129			Linear Static	VLSSC	0,
ELU-129			Linear Static	VLCSC	0,
ELU-129			Linear Static	TU-DIL	0,315
ELU-129	Linear Add	No	Linear Static	TU-CON	0,
ELU-129			Linear Static	GRA-HEAT	0,9
ELU-129			Linear Static	GRA-COOL	0,
ELU-130			Linear Static	PP	1,35
ELU-130			Linear Static	CM-TUBERIA	1,35
ELU-130			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-130			Linear Static	SCU	0,54
ELU-130			Linear Static	VTSSC	0,
ELU-130			Linear Static	VTSCC	1,5
ELU-130			Linear Static	VV	1,5
ELU-130	Linear Add	No	Linear Static	VLSSC	0,
ELU-130			Linear Static	VLCSC	0,
ELU-130			Linear Static	TU-DIL	0,
ELU-130			Linear Static	TU-CON	0,315
ELU-130			Linear Static	GRA-HEAT	0,9
ELU-130			Linear Static	GRA-COOL	0,
ELU-131			Linear Static	PP	1,35
ELU-131			Linear Static	CM-TUBERIA	1,35
ELU-131			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-131			Linear Static	SCU	0,54
ELU-131	Linear Add	No	Linear Static	VTSSC	0,
ELU-131			Linear Static	VTSCC	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-131	Linear Add	No	Linear Static	VV	1,5
ELU-131			Linear Static	VLSSC	0,
ELU-131			Linear Static	VLSC	0,
ELU-131			Linear Static	TU-DIL	0,315
ELU-131			Linear Static	TU-CON	0,
ELU-131			Linear Static	GRA-HEAT	0,
ELU-131			Linear Static	GRA-COOL	0,9
ELU-132			Linear Static	PP	1,35
ELU-132			Linear Static	CM-TUBERIA	1,35
ELU-132			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-132	Linear Add	No	Linear Static	SCU	0,54
ELU-132			Linear Static	VTSSC	0,
ELU-132			Linear Static	VTSC	1,5
ELU-132			Linear Static	VV	1,5
ELU-132			Linear Static	VLSSC	0,
ELU-132			Linear Static	VLSC	0,
ELU-132			Linear Static	TU-DIL	0,
ELU-132			Linear Static	TU-CON	0,315
ELU-132			Linear Static	GRA-HEAT	0,
ELU-132			Linear Static	GRA-COOL	0,9
ELU-133	Linear Add	No	Linear Static	PP	1,35
ELU-133			Linear Static	CM-TUBERIA	1,35
ELU-133			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-133			Linear Static	SCU	0,54
ELU-133			Linear Static	VTSSC	0,
ELU-133			Linear Static	VTSC	1,5
ELU-133			Linear Static	VV	1,5
ELU-133			Linear Static	VLSSC	0,
ELU-133			Linear Static	VLSC	0,
ELU-133			Linear Static	TU-DIL	0,9
ELU-133	Linear Add	No	Linear Static	TU-CON	0,
ELU-133			Linear Static	GRA-HEAT	0,675
ELU-133			Linear Static	GRA-COOL	0,
ELU-134			Linear Static	PP	1,35
ELU-134			Linear Static	CM-TUBERIA	1,35
ELU-134			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-134			Linear Static	SCU	0,54
ELU-134			Linear Static	VTSSC	0,
ELU-134			Linear Static	VTSC	1,5
ELU-134			Linear Static	VV	1,5
ELU-134	Linear Add	No	Linear Static	VLSSC	0,
ELU-134			Linear Static	VLSC	0,
ELU-134			Linear Static	TU-DIL	0,
ELU-134			Linear Static	TU-CON	0,9
ELU-134			Linear Static	GRA-HEAT	0,675
ELU-134			Linear Static	GRA-COOL	0,
ELU-135			Linear Static	PP	1,35
ELU-135			Linear Static	CM-TUBERIA	1,35
ELU-135			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-135			Linear Static	SCU	0,54
ELU-135	Linear Add	No	Linear Static	VTSSC	0,
ELU-135			Linear Static	VTSC	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-135	Linear Add	No	Linear Static	VV	1,5
ELU-135			Linear Static	VLSSC	0,
ELU-135			Linear Static	VLCSC	0,
ELU-135			Linear Static	TU-DIL	0,9
ELU-135			Linear Static	TU-CON	0,
ELU-135			Linear Static	GRA-HEAT	0,
ELU-135			Linear Static	GRA-COOL	0,675
ELU-136			Linear Static	PP	1,35
ELU-136			Linear Static	CM-TUBERIA	1,35
ELU-136			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-136	Linear Add	No	Linear Static	SCU	0,54
ELU-136			Linear Static	VTSSC	0,
ELU-136			Linear Static	VTSCC	1,5
ELU-136			Linear Static	VV	1,5
ELU-136			Linear Static	VLSSC	0,
ELU-136			Linear Static	VLCSC	0,
ELU-136			Linear Static	TU-DIL	0,
ELU-136			Linear Static	TU-CON	0,9
ELU-136			Linear Static	GRA-HEAT	0,
ELU-136			Linear Static	GRA-COOL	0,675
ELU-137	Linear Add	No	Linear Static	PP	1,35
ELU-137			Linear Static	CM-TUBERIA	1,35
ELU-137			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-137			Linear Static	SCU	0,
ELU-137			Linear Static	VTSSC	1,5
ELU-137			Linear Static	VTSCC	0,
ELU-137			Linear Static	VV	0,
ELU-137			Linear Static	VLSSC	0,
ELU-137			Linear Static	VLCSC	0,
ELU-137			Linear Static	TU-DIL	0,315
ELU-137	Linear Add	No	Linear Static	TU-CON	0,
ELU-137			Linear Static	GRA-HEAT	0,9
ELU-137			Linear Static	GRA-COOL	0,
ELU-138			Linear Static	PP	1,35
ELU-138			Linear Static	CM-TUBERIA	1,35
ELU-138			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-138			Linear Static	SCU	0,
ELU-138			Linear Static	VTSSC	1,5
ELU-138			Linear Static	VTSCC	0,
ELU-138			Linear Static	VV	0,
ELU-138	Linear Add	No	Linear Static	VLSSC	0,
ELU-138			Linear Static	VLCSC	0,
ELU-138			Linear Static	TU-DIL	0,
ELU-138			Linear Static	TU-CON	0,315
ELU-138			Linear Static	GRA-HEAT	0,9
ELU-138			Linear Static	GRA-COOL	0,
ELU-139			Linear Static	PP	1,35
ELU-139			Linear Static	CM-TUBERIA	1,35
ELU-139			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-139			Linear Static	SCU	0,
ELU-139	Linear Add	No	Linear Static	VTSSC	1,5
ELU-139			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-139	Linear Add	No	Linear Static	VV	0,
ELU-139			Linear Static	VLSSC	0,
ELU-139			Linear Static	VLSC	0,
ELU-139			Linear Static	TU-DIL	0,315
ELU-139			Linear Static	TU-CON	0,
ELU-139			Linear Static	GRA-HEAT	0,
ELU-139			Linear Static	GRA-COOL	0,9
ELU-140			Linear Static	PP	1,35
ELU-140			Linear Static	CM-TUBERIA	1,35
ELU-140			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-140	Linear Add	No	Linear Static	SCU	0,
ELU-140			Linear Static	VTSSC	1,5
ELU-140			Linear Static	VTSC	0,
ELU-140			Linear Static	VV	0,
ELU-140			Linear Static	VLSSC	0,
ELU-140			Linear Static	VLSC	0,
ELU-140			Linear Static	TU-DIL	0,
ELU-140			Linear Static	TU-CON	0,315
ELU-140			Linear Static	GRA-HEAT	0,
ELU-140			Linear Static	GRA-COOL	0,9
ELU-141	Linear Add	No	Linear Static	PP	1,35
ELU-141			Linear Static	CM-TUBERIA	1,35
ELU-141			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-141			Linear Static	SCU	0,
ELU-141			Linear Static	VTSSC	1,5
ELU-141			Linear Static	VTSC	0,
ELU-141			Linear Static	VV	0,
ELU-141			Linear Static	VLSSC	0,
ELU-141			Linear Static	VLSC	0,
ELU-141			Linear Static	TU-DIL	0,9
ELU-141	Linear Add	No	Linear Static	TU-CON	0,
ELU-141			Linear Static	GRA-HEAT	0,675
ELU-141			Linear Static	GRA-COOL	0,
ELU-142			Linear Static	PP	1,35
ELU-142			Linear Static	CM-TUBERIA	1,35
ELU-142			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-142			Linear Static	SCU	0,
ELU-142			Linear Static	VTSSC	1,5
ELU-142			Linear Static	VTSC	0,
ELU-142			Linear Static	VV	0,
ELU-142	Linear Add	No	Linear Static	VLSSC	0,
ELU-142			Linear Static	VLSC	0,
ELU-142			Linear Static	TU-DIL	0,
ELU-142			Linear Static	TU-CON	0,9
ELU-142			Linear Static	GRA-HEAT	0,675
ELU-142			Linear Static	GRA-COOL	0,
ELU-143			Linear Static	PP	1,35
ELU-143			Linear Static	CM-TUBERIA	1,35
ELU-143			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-143			Linear Static	SCU	0,
ELU-143			Linear Static	VTSSC	1,5
ELU-143			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-143	Linear Add	No	Linear Static	VV	0,
ELU-143			Linear Static	VLSSC	0,
ELU-143			Linear Static	VLCSC	0,
ELU-143			Linear Static	TU-DIL	0,9
ELU-143			Linear Static	TU-CON	0,
ELU-143			Linear Static	GRA-HEAT	0,
ELU-143			Linear Static	GRA-COOL	0,675
ELU-144			Linear Static	PP	1,35
ELU-144			Linear Static	CM-TUBERIA	1,35
ELU-144			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-144			Linear Static	SCU	0,
ELU-144			Linear Static	VTSSC	1,5
ELU-144			Linear Static	VTSCC	0,
ELU-144			Linear Static	VV	0,
ELU-144			Linear Static	VLSSC	0,
ELU-144			Linear Static	VLCSC	0,
ELU-144			Linear Static	TU-DIL	0,
ELU-144			Linear Static	TU-CON	0,9
ELU-144			Linear Static	GRA-HEAT	0,
ELU-144			Linear Static	GRA-COOL	0,675
ELU-145	Linear Add	No	Linear Static	PP	1,35
ELU-145			Linear Static	CM-TUBERIA	1,35
ELU-145			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-145			Linear Static	SCU	0,
ELU-145			Linear Static	VTSSC	1,5
ELU-145			Linear Static	VTSCC	0,
ELU-145			Linear Static	VV	1,5
ELU-145			Linear Static	VLSSC	0,
ELU-145			Linear Static	VLCSC	0,
ELU-145			Linear Static	TU-DIL	0,315
ELU-145			Linear Static	TU-CON	0,
ELU-145			Linear Static	GRA-HEAT	0,9
ELU-145			Linear Static	GRA-COOL	0,
ELU-146			Linear Static	PP	1,35
ELU-146			Linear Static	CM-TUBERIA	1,35
ELU-146			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-146			Linear Static	SCU	0,
ELU-146			Linear Static	VTSSC	1,5
ELU-146			Linear Static	VTSCC	0,
ELU-146			Linear Static	VV	1,5
ELU-146			Linear Static	VLSSC	0,
ELU-146			Linear Static	VLCSC	0,
ELU-146			Linear Static	TU-DIL	0,
ELU-146			Linear Static	TU-CON	0,315
ELU-146			Linear Static	GRA-HEAT	0,9
ELU-146			Linear Static	GRA-COOL	0,
ELU-147			Linear Static	PP	1,35
ELU-147			Linear Static	CM-TUBERIA	1,35
ELU-147			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-147			Linear Static	SCU	0,
ELU-147			Linear Static	VTSSC	1,5
ELU-147			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-147	Linear Add	No	Linear Static	VV	1,5
ELU-147			Linear Static	VLSSC	0,
ELU-147			Linear Static	VLSC	0,
ELU-147			Linear Static	TU-DIL	0,315
ELU-147			Linear Static	TU-CON	0,
ELU-147			Linear Static	GRA-HEAT	0,
ELU-147			Linear Static	GRA-COOL	0,9
ELU-148			Linear Static	PP	1,35
ELU-148			Linear Static	CM-TUBERIA	1,35
ELU-148			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-148	Linear Add	No	Linear Static	SCU	0,
ELU-148			Linear Static	VTSSC	1,5
ELU-148			Linear Static	VTSC	0,
ELU-148			Linear Static	VV	1,5
ELU-148			Linear Static	VLSSC	0,
ELU-148			Linear Static	VLSC	0,
ELU-148			Linear Static	TU-DIL	0,
ELU-148			Linear Static	TU-CON	0,315
ELU-148			Linear Static	GRA-HEAT	0,
ELU-148			Linear Static	GRA-COOL	0,9
ELU-149	Linear Add	No	Linear Static	PP	1,35
ELU-149			Linear Static	CM-TUBERIA	1,35
ELU-149			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-149			Linear Static	SCU	0,
ELU-149			Linear Static	VTSSC	1,5
ELU-149			Linear Static	VTSC	0,
ELU-149			Linear Static	VV	1,5
ELU-149			Linear Static	VLSSC	0,
ELU-149			Linear Static	VLSC	0,
ELU-149			Linear Static	TU-DIL	0,9
ELU-149	Linear Add	No	Linear Static	TU-CON	0,
ELU-149			Linear Static	GRA-HEAT	0,675
ELU-149			Linear Static	GRA-COOL	0,
ELU-150			Linear Static	PP	1,35
ELU-150			Linear Static	CM-TUBERIA	1,35
ELU-150			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-150			Linear Static	SCU	0,
ELU-150			Linear Static	VTSSC	1,5
ELU-150			Linear Static	VTSC	0,
ELU-150			Linear Static	VV	1,5
ELU-150	Linear Add	No	Linear Static	VLSSC	0,
ELU-150			Linear Static	VLSC	0,
ELU-150			Linear Static	TU-DIL	0,
ELU-150			Linear Static	TU-CON	0,9
ELU-150			Linear Static	GRA-HEAT	0,675
ELU-150			Linear Static	GRA-COOL	0,
ELU-151			Linear Static	PP	1,35
ELU-151			Linear Static	CM-TUBERIA	1,35
ELU-151			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-151			Linear Static	SCU	0,
ELU-151	Linear Add	No	Linear Static	VTSSC	1,5
ELU-151			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-151	Linear Add	No	Linear Static	VV	1,5
ELU-151			Linear Static	VLSSC	0,
ELU-151			Linear Static	VLCSC	0,
ELU-151			Linear Static	TU-DIL	0,9
ELU-151			Linear Static	TU-CON	0,
ELU-151			Linear Static	GRA-HEAT	0,
ELU-151			Linear Static	GRA-COOL	0,675
ELU-152			Linear Static	PP	1,35
ELU-152			Linear Static	CM-TUBERIA	1,35
ELU-152			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-152	Linear Add	No	Linear Static	SCU	0,
ELU-152			Linear Static	VTSSC	1,5
ELU-152			Linear Static	VTSCC	0,
ELU-152			Linear Static	VV	1,5
ELU-152			Linear Static	VLSSC	0,
ELU-152			Linear Static	VLCSC	0,
ELU-152			Linear Static	TU-DIL	0,
ELU-152			Linear Static	TU-CON	0,9
ELU-152			Linear Static	GRA-HEAT	0,
ELU-152			Linear Static	GRA-COOL	0,675
ELU-153	Linear Add	No	Linear Static	PP	1,35
ELU-153			Linear Static	CM-TUBERIA	1,35
ELU-153			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-153			Linear Static	SCU	0,
ELU-153			Linear Static	VTSSC	0,
ELU-153			Linear Static	VTSCC	0,
ELU-153			Linear Static	VV	0,
ELU-153			Linear Static	VLSSC	1,5
ELU-153			Linear Static	VLCSC	0,
ELU-153			Linear Static	TU-DIL	0,315
ELU-153	Linear Add	No	Linear Static	TU-CON	0,
ELU-153			Linear Static	GRA-HEAT	0,9
ELU-153			Linear Static	GRA-COOL	0,
ELU-154			Linear Static	PP	1,35
ELU-154			Linear Static	CM-TUBERIA	1,35
ELU-154			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-154			Linear Static	SCU	0,
ELU-154			Linear Static	VTSSC	0,
ELU-154			Linear Static	VTSCC	0,
ELU-154			Linear Static	VV	0,
ELU-154	Linear Add	No	Linear Static	VLSSC	1,5
ELU-154			Linear Static	VLCSC	0,
ELU-154			Linear Static	TU-DIL	0,
ELU-154			Linear Static	TU-CON	0,315
ELU-154			Linear Static	GRA-HEAT	0,9
ELU-154			Linear Static	GRA-COOL	0,
ELU-155			Linear Static	PP	1,35
ELU-155			Linear Static	CM-TUBERIA	1,35
ELU-155			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-155			Linear Static	SCU	0,
ELU-155	Linear Add	No	Linear Static	VTSSC	0,
ELU-155			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-155	Linear Add	No	Linear Static	VV	0,
ELU-155			Linear Static	VLSSC	1,5
ELU-155			Linear Static	VLSCC	0,
ELU-155			Linear Static	TU-DIL	0,315
ELU-155			Linear Static	TU-CON	0,
ELU-155			Linear Static	GRA-HEAT	0,
ELU-155			Linear Static	GRA-COOL	0,9
ELU-156			Linear Static	PP	1,35
ELU-156			Linear Static	CM-TUBERIA	1,35
ELU-156			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-156	Linear Add	No	Linear Static	SCU	0,
ELU-156			Linear Static	VTSSC	0,
ELU-156			Linear Static	VTSCC	0,
ELU-156			Linear Static	VV	0,
ELU-156			Linear Static	VLSSC	1,5
ELU-156			Linear Static	VLSCC	0,
ELU-156			Linear Static	TU-DIL	0,
ELU-156			Linear Static	TU-CON	0,315
ELU-156			Linear Static	GRA-HEAT	0,
ELU-156			Linear Static	GRA-COOL	0,9
ELU-157	Linear Add	No	Linear Static	PP	1,35
ELU-157			Linear Static	CM-TUBERIA	1,35
ELU-157			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-157			Linear Static	SCU	0,
ELU-157			Linear Static	VTSSC	0,
ELU-157			Linear Static	VTSCC	0,
ELU-157			Linear Static	VV	0,
ELU-157			Linear Static	VLSSC	1,5
ELU-157			Linear Static	VLSCC	0,
ELU-157			Linear Static	TU-DIL	0,9
ELU-157	Linear Add	No	Linear Static	TU-CON	0,
ELU-157			Linear Static	GRA-HEAT	0,675
ELU-157			Linear Static	GRA-COOL	0,
ELU-158			Linear Static	PP	1,35
ELU-158			Linear Static	CM-TUBERIA	1,35
ELU-158			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-158			Linear Static	SCU	0,
ELU-158			Linear Static	VTSSC	0,
ELU-158			Linear Static	VTSCC	0,
ELU-158			Linear Static	VV	0,
ELU-158	Linear Add	No	Linear Static	VLSSC	1,5
ELU-158			Linear Static	VLSCC	0,
ELU-158			Linear Static	TU-DIL	0,
ELU-158			Linear Static	TU-CON	0,9
ELU-158			Linear Static	GRA-HEAT	0,675
ELU-158			Linear Static	GRA-COOL	0,
ELU-159			Linear Static	PP	1,35
ELU-159			Linear Static	CM-TUBERIA	1,35
ELU-159			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-159			Linear Static	SCU	0,
ELU-159	Linear Add	No	Linear Static	VTSSC	0,
ELU-159			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-159	Linear Add	No	Linear Static	VV	0,
ELU-159			Linear Static	VLSSC	1,5
ELU-159			Linear Static	VLCSC	0,
ELU-159			Linear Static	TU-DIL	0,9
ELU-159			Linear Static	TU-CON	0,
ELU-159			Linear Static	GRA-HEAT	0,
ELU-159			Linear Static	GRA-COOL	0,675
ELU-160			Linear Static	PP	1,35
ELU-160			Linear Static	CM-TUBERIA	1,35
ELU-160	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-160			Linear Static	SCU	0,
ELU-160			Linear Static	VTSSC	0,
ELU-160			Linear Static	UTCSC	0,
ELU-160			Linear Static	VV	0,
ELU-160			Linear Static	VLSSC	1,5
ELU-160			Linear Static	VLCSC	0,
ELU-160			Linear Static	TU-DIL	0,
ELU-160			Linear Static	TU-CON	0,9
ELU-160	Linear Add	No	Linear Static	GRA-HEAT	0,
ELU-160			Linear Static	GRA-COOL	0,675
ELU-161			Linear Static	PP	1,35
ELU-161			Linear Static	CM-TUBERIA	1,35
ELU-161			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-161			Linear Static	SCU	0,54
ELU-161			Linear Static	VTSSC	0,
ELU-161			Linear Static	UTCSC	0,
ELU-161			Linear Static	VV	0,
ELU-161	Linear Add	No	Linear Static	VLSSC	0,
ELU-161			Linear Static	VLCSC	1,5
ELU-161			Linear Static	TU-DIL	0,315
ELU-161			Linear Static	TU-CON	0,
ELU-161			Linear Static	GRA-HEAT	0,9
ELU-161			Linear Static	GRA-COOL	0,
ELU-162			Linear Static	PP	1,35
ELU-162			Linear Static	CM-TUBERIA	1,35
ELU-162			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-162	Linear Add	No	Linear Static	SCU	0,54
ELU-162			Linear Static	VTSSC	0,
ELU-162			Linear Static	UTCSC	0,
ELU-162			Linear Static	VV	0,
ELU-162			Linear Static	VLSSC	0,
ELU-162			Linear Static	VLCSC	1,5
ELU-162			Linear Static	TU-DIL	0,
ELU-162			Linear Static	TU-CON	0,315
ELU-162			Linear Static	GRA-HEAT	0,9
ELU-162	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-163			Linear Static	PP	1,35
ELU-163			Linear Static	CM-TUBERIA	1,35
ELU-163			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-163			Linear Static	SCU	0,54
ELU-163			Linear Static	VTSSC	0,
ELU-163			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-163	Linear Add	No	Linear Static	VV	0,
ELU-163			Linear Static	VLSSC	0,
ELU-163			Linear Static	VLSC	1,5
ELU-163			Linear Static	TU-DIL	0,315
ELU-163			Linear Static	TU-CON	0,
ELU-163			Linear Static	GRA-HEAT	0,
ELU-163			Linear Static	GRA-COOL	0,9
ELU-164			Linear Static	PP	1,35
ELU-164			Linear Static	CM-TUBERIA	1,35
ELU-164			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-164	Linear Add	No	Linear Static	SCU	0,54
ELU-164			Linear Static	VTSSC	0,
ELU-164			Linear Static	VTSC	0,
ELU-164			Linear Static	VV	0,
ELU-164			Linear Static	VLSSC	0,
ELU-164			Linear Static	VLSC	1,5
ELU-164			Linear Static	TU-DIL	0,
ELU-164			Linear Static	TU-CON	0,315
ELU-164			Linear Static	GRA-HEAT	0,
ELU-164			Linear Static	GRA-COOL	0,9
ELU-165	Linear Add	No	Linear Static	PP	1,35
ELU-165			Linear Static	CM-TUBERIA	1,35
ELU-165			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-165			Linear Static	SCU	0,54
ELU-165			Linear Static	VTSSC	0,
ELU-165			Linear Static	VTSC	0,
ELU-165			Linear Static	VV	0,
ELU-165			Linear Static	VLSSC	0,
ELU-165			Linear Static	VLSC	1,5
ELU-165			Linear Static	TU-DIL	0,9
ELU-165	Linear Add	No	Linear Static	TU-CON	0,
ELU-165			Linear Static	GRA-HEAT	0,675
ELU-165			Linear Static	GRA-COOL	0,
ELU-166			Linear Static	PP	1,35
ELU-166			Linear Static	CM-TUBERIA	1,35
ELU-166			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-166			Linear Static	SCU	0,54
ELU-166			Linear Static	VTSSC	0,
ELU-166			Linear Static	VTSC	0,
ELU-166			Linear Static	VV	0,
ELU-166	Linear Add	No	Linear Static	VLSSC	0,
ELU-166			Linear Static	VLSC	1,5
ELU-166			Linear Static	TU-DIL	0,
ELU-166			Linear Static	TU-CON	0,9
ELU-166			Linear Static	GRA-HEAT	0,675
ELU-166			Linear Static	GRA-COOL	0,
ELU-167			Linear Static	PP	1,35
ELU-167			Linear Static	CM-TUBERIA	1,35
ELU-167			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-167			Linear Static	SCU	0,54
ELU-167	Linear Add	No	Linear Static	VTSSC	0,
ELU-167			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-167	Linear Add	No	Linear Static	VV	0,
ELU-167			Linear Static	VLSSC	0,
ELU-167			Linear Static	VLCSC	1,5
ELU-167			Linear Static	TU-DIL	0,9
ELU-167			Linear Static	TU-CON	0,
ELU-167			Linear Static	GRA-HEAT	0,
ELU-167			Linear Static	GRA-COOL	0,675
ELU-168			Linear Static	PP	1,35
ELU-168			Linear Static	CM-TUBERIA	1,35
ELU-168			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-168	Linear Add	No	Linear Static	SCU	0,54
ELU-168			Linear Static	VTSSC	0,
ELU-168			Linear Static	VTSCC	0,
ELU-168			Linear Static	VV	0,
ELU-168			Linear Static	VLSSC	0,
ELU-168			Linear Static	VLCSC	1,5
ELU-168			Linear Static	TU-DIL	0,
ELU-168			Linear Static	TU-CON	0,9
ELU-168			Linear Static	GRA-HEAT	0,
ELU-168			Linear Static	GRA-COOL	0,675
ELU-169	Linear Add	No	Linear Static	PP	1,
ELU-169			Linear Static	CM-TUBERIA	1,
ELU-169			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-169			Linear Static	SCU	0,54
ELU-169			Linear Static	VTSSC	0,
ELU-169			Linear Static	VTSCC	0,
ELU-169			Linear Static	VV	0,
ELU-169			Linear Static	VLSSC	0,
ELU-169			Linear Static	VLCSC	0,
ELU-169			Linear Static	TU-DIL	0,315
ELU-169	Linear Add	No	Linear Static	TU-CON	0,
ELU-169			Linear Static	GRA-HEAT	0,9
ELU-169			Linear Static	GRA-COOL	0,
ELU-170			Linear Static	PP	1,
ELU-170			Linear Static	CM-TUBERIA	1,
ELU-170			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-170			Linear Static	SCU	0,54
ELU-170			Linear Static	VTSSC	0,
ELU-170			Linear Static	VTSCC	0,
ELU-170			Linear Static	VV	0,
ELU-170	Linear Add	No	Linear Static	VLSSC	0,
ELU-170			Linear Static	VLCSC	0,
ELU-170			Linear Static	TU-DIL	0,
ELU-170			Linear Static	TU-CON	0,315
ELU-170			Linear Static	GRA-HEAT	0,9
ELU-170			Linear Static	GRA-COOL	0,
ELU-171			Linear Static	PP	1,
ELU-171			Linear Static	CM-TUBERIA	1,
ELU-171			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-171			Linear Static	SCU	0,54
ELU-171	Linear Add	No	Linear Static	VTSSC	0,
ELU-171			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-171	Linear Add	No	Linear Static	VV	0,
ELU-171			Linear Static	VLSSC	0,
ELU-171			Linear Static	VLSC	0,
ELU-171			Linear Static	TU-DIL	0,315
ELU-171			Linear Static	TU-CON	0,
ELU-171			Linear Static	GRA-HEAT	0,
ELU-171			Linear Static	GRA-COOL	0,9
ELU-172			Linear Static	PP	1,
ELU-172			Linear Static	CM-TUBERIA	1,
ELU-172			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-172	Linear Add	No	Linear Static	SCU	0,54
ELU-172			Linear Static	VTSSC	0,
ELU-172			Linear Static	VTSC	0,
ELU-172			Linear Static	VV	0,
ELU-172			Linear Static	VLSSC	0,
ELU-172			Linear Static	VLSC	0,
ELU-172			Linear Static	TU-DIL	0,
ELU-172			Linear Static	TU-CON	0,315
ELU-172			Linear Static	GRA-HEAT	0,
ELU-172			Linear Static	GRA-COOL	0,9
ELU-173	Linear Add	No	Linear Static	PP	1,
ELU-173			Linear Static	CM-TUBERIA	1,
ELU-173			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-173			Linear Static	SCU	0,54
ELU-173			Linear Static	VTSSC	0,
ELU-173			Linear Static	VTSC	0,
ELU-173			Linear Static	VV	0,
ELU-173			Linear Static	VLSSC	0,
ELU-173			Linear Static	VLSC	0,
ELU-173			Linear Static	TU-DIL	0,9
ELU-173	Linear Add	No	Linear Static	TU-CON	0,
ELU-173			Linear Static	GRA-HEAT	0,675
ELU-173			Linear Static	GRA-COOL	0,
ELU-174			Linear Static	PP	1,
ELU-174			Linear Static	CM-TUBERIA	1,
ELU-174			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-174			Linear Static	SCU	0,54
ELU-174			Linear Static	VTSSC	0,
ELU-174			Linear Static	VTSC	0,
ELU-174			Linear Static	VV	0,
ELU-174	Linear Add	No	Linear Static	VLSSC	0,
ELU-174			Linear Static	VLSC	0,
ELU-174			Linear Static	TU-DIL	0,
ELU-174			Linear Static	TU-CON	0,9
ELU-174			Linear Static	GRA-HEAT	0,675
ELU-174			Linear Static	GRA-COOL	0,
ELU-175			Linear Static	PP	1,
ELU-175			Linear Static	CM-TUBERIA	1,
ELU-175			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-175			Linear Static	SCU	0,54
ELU-175	Linear Add	No	Linear Static	VTSSC	0,
ELU-175			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-175	Linear Add	No	Linear Static	VV	0,
ELU-175			Linear Static	VLSSC	0,
ELU-175			Linear Static	VLCSC	0,
ELU-175			Linear Static	TU-DIL	0,9
ELU-175			Linear Static	TU-CON	0,
ELU-175			Linear Static	GRA-HEAT	0,
ELU-175			Linear Static	GRA-COOL	0,675
ELU-176			Linear Static	PP	1,
ELU-176			Linear Static	CM-TUBERIA	1,
ELU-176			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-176	Linear Add	No	Linear Static	SCU	0,54
ELU-176			Linear Static	VTSSC	0,
ELU-176			Linear Static	VTSCC	0,
ELU-176			Linear Static	VV	0,
ELU-176			Linear Static	VLSSC	0,
ELU-176			Linear Static	VLCSC	0,
ELU-176			Linear Static	TU-DIL	0,
ELU-176			Linear Static	TU-CON	0,9
ELU-176			Linear Static	GRA-HEAT	0,
ELU-176			Linear Static	GRA-COOL	0,675
ELU-177	Linear Add	No	Linear Static	PP	1,
ELU-177			Linear Static	CM-TUBERIA	1,
ELU-177			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-177			Linear Static	SCU	0,54
ELU-177			Linear Static	VTSSC	0,
ELU-177			Linear Static	VTSCC	1,5
ELU-177			Linear Static	VV	0,
ELU-177			Linear Static	VLSSC	0,
ELU-177			Linear Static	VLCSC	0,
ELU-177			Linear Static	TU-DIL	0,315
ELU-177	Linear Add	No	Linear Static	TU-CON	0,
ELU-177			Linear Static	GRA-HEAT	0,9
ELU-177			Linear Static	GRA-COOL	0,
ELU-178			Linear Static	PP	1,
ELU-178			Linear Static	CM-TUBERIA	1,
ELU-178			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-178			Linear Static	SCU	0,54
ELU-178			Linear Static	VTSSC	0,
ELU-178			Linear Static	VTSCC	1,5
ELU-178			Linear Static	VV	0,
ELU-178	Linear Add	No	Linear Static	VLSSC	0,
ELU-178			Linear Static	VLCSC	0,
ELU-178			Linear Static	TU-DIL	0,
ELU-178			Linear Static	TU-CON	0,315
ELU-178			Linear Static	GRA-HEAT	0,9
ELU-178			Linear Static	GRA-COOL	0,
ELU-179			Linear Static	PP	1,
ELU-179			Linear Static	CM-TUBERIA	1,
ELU-179			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-179			Linear Static	SCU	0,54
ELU-179	Linear Add	No	Linear Static	VTSSC	0,
ELU-179			Linear Static	VTSCC	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-179	Linear Add	No	Linear Static	VV	0,
ELU-179			Linear Static	VLSSC	0,
ELU-179			Linear Static	VLSC	0,
ELU-179			Linear Static	TU-DIL	0,315
ELU-179			Linear Static	TU-CON	0,
ELU-179			Linear Static	GRA-HEAT	0,
ELU-179			Linear Static	GRA-COOL	0,9
ELU-180			Linear Static	PP	1,
ELU-180			Linear Static	CM-TUBERIA	1,
ELU-180			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-180	Linear Add	No	Linear Static	SCU	0,54
ELU-180			Linear Static	VTSSC	0,
ELU-180			Linear Static	VTSC	1,5
ELU-180			Linear Static	VV	0,
ELU-180			Linear Static	VLSSC	0,
ELU-180			Linear Static	VLSC	0,
ELU-180			Linear Static	TU-DIL	0,
ELU-180			Linear Static	TU-CON	0,315
ELU-180			Linear Static	GRA-HEAT	0,
ELU-180			Linear Static	GRA-COOL	0,9
ELU-181	Linear Add	No	Linear Static	PP	1,
ELU-181			Linear Static	CM-TUBERIA	1,
ELU-181			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-181			Linear Static	SCU	0,54
ELU-181			Linear Static	VTSSC	0,
ELU-181			Linear Static	VTSC	1,5
ELU-181			Linear Static	VV	0,
ELU-181			Linear Static	VLSSC	0,
ELU-181			Linear Static	VLSC	0,
ELU-181			Linear Static	TU-DIL	0,9
ELU-181	Linear Add	No	Linear Static	TU-CON	0,
ELU-181			Linear Static	GRA-HEAT	0,675
ELU-181			Linear Static	GRA-COOL	0,
ELU-182			Linear Static	PP	1,
ELU-182			Linear Static	CM-TUBERIA	1,
ELU-182			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-182			Linear Static	SCU	0,54
ELU-182			Linear Static	VTSSC	0,
ELU-182			Linear Static	VTSC	1,5
ELU-182			Linear Static	VV	0,
ELU-182	Linear Add	No	Linear Static	VLSSC	0,
ELU-182			Linear Static	VLSC	0,
ELU-182			Linear Static	TU-DIL	0,
ELU-182			Linear Static	TU-CON	0,9
ELU-182			Linear Static	GRA-HEAT	0,675
ELU-182			Linear Static	GRA-COOL	0,
ELU-183			Linear Static	PP	1,
ELU-183			Linear Static	CM-TUBERIA	1,
ELU-183			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-183			Linear Static	SCU	0,54
ELU-183	Linear Add	No	Linear Static	VTSSC	0,
ELU-183			Linear Static	VTSC	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-183	Linear Add	No	Linear Static	VV	0,
ELU-183			Linear Static	VLSSC	0,
ELU-183			Linear Static	VLCSC	0,
ELU-183			Linear Static	TU-DIL	0,9
ELU-183			Linear Static	TU-CON	0,
ELU-183			Linear Static	GRA-HEAT	0,
ELU-183			Linear Static	GRA-COOL	0,675
ELU-184			Linear Static	PP	1,
ELU-184			Linear Static	CM-TUBERIA	1,
ELU-184	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELU-184			Linear Static	SCU	0,54
ELU-184			Linear Static	VTSSC	0,
ELU-184			Linear Static	VTSCC	1,5
ELU-184			Linear Static	VV	0,
ELU-184			Linear Static	VLSSC	0,
ELU-184			Linear Static	VLCSC	0,
ELU-184			Linear Static	TU-DIL	0,
ELU-184			Linear Static	TU-CON	0,9
ELU-184	Linear Add	No	Linear Static	GRA-HEAT	0,
ELU-184			Linear Static	GRA-COOL	0,675
ELU-185			Linear Static	PP	1,
ELU-185			Linear Static	CM-TUBERIA	1,
ELU-185			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-185			Linear Static	SCU	0,54
ELU-185			Linear Static	VTSSC	0,
ELU-185			Linear Static	VTSCC	1,5
ELU-185			Linear Static	VV	1,5
ELU-185	Linear Add	No	Linear Static	VLSSC	0,
ELU-185			Linear Static	VLCSC	0,
ELU-185			Linear Static	TU-DIL	0,315
ELU-185			Linear Static	TU-CON	0,
ELU-185			Linear Static	GRA-HEAT	0,9
ELU-185			Linear Static	GRA-COOL	0,
ELU-186			Linear Static	PP	1,
ELU-186			Linear Static	CM-TUBERIA	1,
ELU-186			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-186	Linear Add	No	Linear Static	SCU	0,54
ELU-186			Linear Static	VTSSC	0,
ELU-186			Linear Static	VTSCC	1,5
ELU-186			Linear Static	VV	1,5
ELU-186			Linear Static	VLSSC	0,
ELU-186			Linear Static	VLCSC	0,
ELU-186			Linear Static	TU-DIL	0,
ELU-186			Linear Static	TU-CON	0,315
ELU-186			Linear Static	GRA-HEAT	0,9
ELU-186	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-187			Linear Static	PP	1,
ELU-187			Linear Static	CM-TUBERIA	1,
ELU-187			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-187			Linear Static	SCU	0,54
ELU-187			Linear Static	VTSSC	0,
ELU-187			Linear Static	VTSCC	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-187	Linear Add	No	Linear Static	VV	1,5
ELU-187			Linear Static	VLSSC	0,
ELU-187			Linear Static	VLSC	0,
ELU-187			Linear Static	TU-DIL	0,315
ELU-187			Linear Static	TU-CON	0,
ELU-187			Linear Static	GRA-HEAT	0,
ELU-187			Linear Static	GRA-COOL	0,9
ELU-188			Linear Static	PP	1,
ELU-188			Linear Static	CM-TUBERIA	1,
ELU-188			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-188	Linear Add	No	Linear Static	SCU	0,54
ELU-188			Linear Static	VTSSC	0,
ELU-188			Linear Static	VTSC	1,5
ELU-188			Linear Static	VV	1,5
ELU-188			Linear Static	VLSSC	0,
ELU-188			Linear Static	VLSC	0,
ELU-188			Linear Static	TU-DIL	0,
ELU-188			Linear Static	TU-CON	0,315
ELU-188			Linear Static	GRA-HEAT	0,
ELU-188			Linear Static	GRA-COOL	0,9
ELU-189	Linear Add	No	Linear Static	PP	1,
ELU-189			Linear Static	CM-TUBERIA	1,
ELU-189			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-189			Linear Static	SCU	0,54
ELU-189			Linear Static	VTSSC	0,
ELU-189			Linear Static	VTSC	1,5
ELU-189			Linear Static	VV	1,5
ELU-189			Linear Static	VLSSC	0,
ELU-189			Linear Static	VLSC	0,
ELU-189			Linear Static	TU-DIL	0,9
ELU-189	Linear Add	No	Linear Static	TU-CON	0,
ELU-189			Linear Static	GRA-HEAT	0,675
ELU-189			Linear Static	GRA-COOL	0,
ELU-190			Linear Static	PP	1,
ELU-190			Linear Static	CM-TUBERIA	1,
ELU-190			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-190			Linear Static	SCU	0,54
ELU-190			Linear Static	VTSSC	0,
ELU-190			Linear Static	VTSC	1,5
ELU-190			Linear Static	VV	1,5
ELU-190	Linear Add	No	Linear Static	VLSSC	0,
ELU-190			Linear Static	VLSC	0,
ELU-190			Linear Static	TU-DIL	0,
ELU-190			Linear Static	TU-CON	0,9
ELU-190			Linear Static	GRA-HEAT	0,675
ELU-190			Linear Static	GRA-COOL	0,
ELU-191			Linear Static	PP	1,
ELU-191			Linear Static	CM-TUBERIA	1,
ELU-191			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-191			Linear Static	SCU	0,54
ELU-191	Linear Add	No	Linear Static	VTSSC	0,
ELU-191			Linear Static	VTSC	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-191	Linear Add	No	Linear Static	VV	1,5
ELU-191			Linear Static	VLSSC	0,
ELU-191			Linear Static	VLCSC	0,
ELU-191			Linear Static	TU-DIL	0,9
ELU-191			Linear Static	TU-CON	0,
ELU-191			Linear Static	GRA-HEAT	0,
ELU-191			Linear Static	GRA-COOL	0,675
ELU-192			Linear Static	PP	1,
ELU-192			Linear Static	CM-TUBERIA	1,
ELU-192			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-192	Linear Add	No	Linear Static	SCU	0,54
ELU-192			Linear Static	VTSSC	0,
ELU-192			Linear Static	VTSCC	1,5
ELU-192			Linear Static	VV	1,5
ELU-192			Linear Static	VLSSC	0,
ELU-192			Linear Static	VLCSC	0,
ELU-192			Linear Static	TU-DIL	0,
ELU-192			Linear Static	TU-CON	0,9
ELU-192			Linear Static	GRA-HEAT	0,
ELU-192			Linear Static	GRA-COOL	0,675
ELU-193	Linear Add	No	Linear Static	PP	1,
ELU-193			Linear Static	CM-TUBERIA	1,
ELU-193			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-193			Linear Static	SCU	0,
ELU-193			Linear Static	VTSSC	1,5
ELU-193			Linear Static	VTSCC	0,
ELU-193			Linear Static	VV	0,
ELU-193			Linear Static	VLSSC	0,
ELU-193			Linear Static	VLCSC	0,
ELU-193			Linear Static	TU-DIL	0,315
ELU-193	Linear Add	No	Linear Static	TU-CON	0,
ELU-193			Linear Static	GRA-HEAT	0,9
ELU-193			Linear Static	GRA-COOL	0,
ELU-194			Linear Static	PP	1,
ELU-194			Linear Static	CM-TUBERIA	1,
ELU-194			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-194			Linear Static	SCU	0,
ELU-194			Linear Static	VTSSC	1,5
ELU-194			Linear Static	VTSCC	0,
ELU-194			Linear Static	VV	0,
ELU-194	Linear Add	No	Linear Static	VLSSC	0,
ELU-194			Linear Static	VLCSC	0,
ELU-194			Linear Static	TU-DIL	0,
ELU-194			Linear Static	TU-CON	0,315
ELU-194			Linear Static	GRA-HEAT	0,9
ELU-194			Linear Static	GRA-COOL	0,
ELU-195			Linear Static	PP	1,
ELU-195			Linear Static	CM-TUBERIA	1,
ELU-195			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-195			Linear Static	SCU	0,
ELU-195	Linear Add	No	Linear Static	VTSSC	1,5
ELU-195			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-195	Linear Add	No	Linear Static	VV	0,
ELU-195			Linear Static	VLSSC	0,
ELU-195			Linear Static	VLSC	0,
ELU-195			Linear Static	TU-DIL	0,315
ELU-195			Linear Static	TU-CON	0,
ELU-195			Linear Static	GRA-HEAT	0,
ELU-195			Linear Static	GRA-COOL	0,9
ELU-196			Linear Static	PP	1,
ELU-196			Linear Static	CM-TUBERIA	1,
ELU-196			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-196	Linear Add	No	Linear Static	SCU	0,
ELU-196			Linear Static	VTSSC	1,5
ELU-196			Linear Static	VTSC	0,
ELU-196			Linear Static	VV	0,
ELU-196			Linear Static	VLSSC	0,
ELU-196			Linear Static	VLSC	0,
ELU-196			Linear Static	TU-DIL	0,
ELU-196			Linear Static	TU-CON	0,315
ELU-196			Linear Static	GRA-HEAT	0,
ELU-196			Linear Static	GRA-COOL	0,9
ELU-197	Linear Add	No	Linear Static	PP	1,
ELU-197			Linear Static	CM-TUBERIA	1,
ELU-197			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-197			Linear Static	SCU	0,
ELU-197			Linear Static	VTSSC	1,5
ELU-197			Linear Static	VTSC	0,
ELU-197			Linear Static	VV	0,
ELU-197			Linear Static	VLSSC	0,
ELU-197			Linear Static	VLSC	0,
ELU-197			Linear Static	TU-DIL	0,9
ELU-197	Linear Add	No	Linear Static	TU-CON	0,
ELU-197			Linear Static	GRA-HEAT	0,675
ELU-197			Linear Static	GRA-COOL	0,
ELU-198			Linear Static	PP	1,
ELU-198			Linear Static	CM-TUBERIA	1,
ELU-198			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-198			Linear Static	SCU	0,
ELU-198			Linear Static	VTSSC	1,5
ELU-198			Linear Static	VTSC	0,
ELU-198			Linear Static	VV	0,
ELU-198	Linear Add	No	Linear Static	VLSSC	0,
ELU-198			Linear Static	VLSC	0,
ELU-198			Linear Static	TU-DIL	0,
ELU-198			Linear Static	TU-CON	0,9
ELU-198			Linear Static	GRA-HEAT	0,675
ELU-198			Linear Static	GRA-COOL	0,
ELU-199			Linear Static	PP	1,
ELU-199			Linear Static	CM-TUBERIA	1,
ELU-199			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-199			Linear Static	SCU	0,
ELU-199	Linear Add	No	Linear Static	VTSSC	1,5
ELU-199			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-199	Linear Add	No	Linear Static	VV	0,
ELU-199			Linear Static	VLSSC	0,
ELU-199			Linear Static	VLCSC	0,
ELU-199			Linear Static	TU-DIL	0,9
ELU-199			Linear Static	TU-CON	0,
ELU-199			Linear Static	GRA-HEAT	0,
ELU-199			Linear Static	GRA-COOL	0,675
ELU-200			Linear Static	PP	1,
ELU-200			Linear Static	CM-TUBERIA	1,
ELU-200			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-200	Linear Add	No	Linear Static	SCU	0,
ELU-200			Linear Static	VTSSC	1,5
ELU-200			Linear Static	VTSCC	0,
ELU-200			Linear Static	VV	0,
ELU-200			Linear Static	VLSSC	0,
ELU-200			Linear Static	VLCSC	0,
ELU-200			Linear Static	TU-DIL	0,
ELU-200			Linear Static	TU-CON	0,9
ELU-200			Linear Static	GRA-HEAT	0,
ELU-200			Linear Static	GRA-COOL	0,675
ELU-201	Linear Add	No	Linear Static	PP	1,
ELU-201			Linear Static	CM-TUBERIA	1,
ELU-201			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-201			Linear Static	SCU	0,
ELU-201			Linear Static	VTSSC	1,5
ELU-201			Linear Static	VTSCC	0,
ELU-201			Linear Static	VV	1,5
ELU-201			Linear Static	VLSSC	0,
ELU-201			Linear Static	VLCSC	0,
ELU-201			Linear Static	TU-DIL	0,315
ELU-201	Linear Add	No	Linear Static	TU-CON	0,
ELU-201			Linear Static	GRA-HEAT	0,9
ELU-201			Linear Static	GRA-COOL	0,
ELU-202			Linear Static	PP	1,
ELU-202			Linear Static	CM-TUBERIA	1,
ELU-202			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-202			Linear Static	SCU	0,
ELU-202			Linear Static	VTSSC	1,5
ELU-202			Linear Static	VTSCC	0,
ELU-202			Linear Static	VV	1,5
ELU-202	Linear Add	No	Linear Static	VLSSC	0,
ELU-202			Linear Static	VLCSC	0,
ELU-202			Linear Static	TU-DIL	0,
ELU-202			Linear Static	TU-CON	0,315
ELU-202			Linear Static	GRA-HEAT	0,9
ELU-202			Linear Static	GRA-COOL	0,
ELU-203			Linear Static	PP	1,
ELU-203			Linear Static	CM-TUBERIA	1,
ELU-203			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-203			Linear Static	SCU	0,
ELU-203	Linear Add	No	Linear Static	VTSSC	1,5
ELU-203			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-203	Linear Add	No	Linear Static	VV	1,5
ELU-203			Linear Static	VLSSC	0,
ELU-203			Linear Static	VLSC	0,
ELU-203			Linear Static	TU-DIL	0,315
ELU-203			Linear Static	TU-CON	0,
ELU-203			Linear Static	GRA-HEAT	0,
ELU-203			Linear Static	GRA-COOL	0,9
ELU-204			Linear Static	PP	1,
ELU-204			Linear Static	CM-TUBERIA	1,
ELU-204			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-204	Linear Add	No	Linear Static	SCU	0,
ELU-204			Linear Static	VTSSC	1,5
ELU-204			Linear Static	VTSC	0,
ELU-204			Linear Static	VV	1,5
ELU-204			Linear Static	VLSSC	0,
ELU-204			Linear Static	VLSC	0,
ELU-204			Linear Static	TU-DIL	0,
ELU-204			Linear Static	TU-CON	0,315
ELU-204			Linear Static	GRA-HEAT	0,
ELU-204			Linear Static	GRA-COOL	0,9
ELU-205	Linear Add	No	Linear Static	PP	1,
ELU-205			Linear Static	CM-TUBERIA	1,
ELU-205			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-205			Linear Static	SCU	0,
ELU-205			Linear Static	VTSSC	1,5
ELU-205			Linear Static	VTSC	0,
ELU-205			Linear Static	VV	1,5
ELU-205			Linear Static	VLSSC	0,
ELU-205			Linear Static	VLSC	0,
ELU-205			Linear Static	TU-DIL	0,9
ELU-205	Linear Add	No	Linear Static	TU-CON	0,
ELU-205			Linear Static	GRA-HEAT	0,675
ELU-205			Linear Static	GRA-COOL	0,
ELU-206			Linear Static	PP	1,
ELU-206			Linear Static	CM-TUBERIA	1,
ELU-206			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-206			Linear Static	SCU	0,
ELU-206			Linear Static	VTSSC	1,5
ELU-206			Linear Static	VTSC	0,
ELU-206			Linear Static	VV	1,5
ELU-206	Linear Add	No	Linear Static	VLSSC	0,
ELU-206			Linear Static	VLSC	0,
ELU-206			Linear Static	TU-DIL	0,
ELU-206			Linear Static	TU-CON	0,9
ELU-206			Linear Static	GRA-HEAT	0,675
ELU-206			Linear Static	GRA-COOL	0,
ELU-207			Linear Static	PP	1,
ELU-207			Linear Static	CM-TUBERIA	1,
ELU-207			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-207			Linear Static	SCU	0,
ELU-207	Linear Add	No	Linear Static	VTSSC	1,5
ELU-207			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-207	Linear Add	No	Linear Static	VV	1,5
ELU-207			Linear Static	VLSSC	0,
ELU-207			Linear Static	VLCSC	0,
ELU-207			Linear Static	TU-DIL	0,9
ELU-207			Linear Static	TU-CON	0,
ELU-207			Linear Static	GRA-HEAT	0,
ELU-207			Linear Static	GRA-COOL	0,675
ELU-208			Linear Static	PP	1,
ELU-208			Linear Static	CM-TUBERIA	1,
ELU-208			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-208	Linear Add	No	Linear Static	SCU	0,
ELU-208			Linear Static	VTSSC	1,5
ELU-208			Linear Static	VTSCC	0,
ELU-208			Linear Static	VV	1,5
ELU-208			Linear Static	VLSSC	0,
ELU-208			Linear Static	VLCSC	0,
ELU-208			Linear Static	TU-DIL	0,
ELU-208			Linear Static	TU-CON	0,9
ELU-208			Linear Static	GRA-HEAT	0,
ELU-208			Linear Static	GRA-COOL	0,675
ELU-209	Linear Add	No	Linear Static	PP	1,
ELU-209			Linear Static	CM-TUBERIA	1,
ELU-209			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-209			Linear Static	SCU	0,
ELU-209			Linear Static	VTSSC	0,
ELU-209			Linear Static	VTSCC	0,
ELU-209			Linear Static	VV	0,
ELU-209			Linear Static	VLSSC	1,5
ELU-209			Linear Static	VLCSC	0,
ELU-209			Linear Static	TU-DIL	0,315
ELU-209	Linear Add	No	Linear Static	TU-CON	0,
ELU-209			Linear Static	GRA-HEAT	0,9
ELU-209			Linear Static	GRA-COOL	0,
ELU-210			Linear Static	PP	1,
ELU-210			Linear Static	CM-TUBERIA	1,
ELU-210			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-210			Linear Static	SCU	0,
ELU-210			Linear Static	VTSSC	0,
ELU-210			Linear Static	VTSCC	0,
ELU-210			Linear Static	VV	0,
ELU-210	Linear Add	No	Linear Static	VLSSC	1,5
ELU-210			Linear Static	VLCSC	0,
ELU-210			Linear Static	TU-DIL	0,
ELU-210			Linear Static	TU-CON	0,315
ELU-210			Linear Static	GRA-HEAT	0,9
ELU-210			Linear Static	GRA-COOL	0,
ELU-211			Linear Static	PP	1,
ELU-211			Linear Static	CM-TUBERIA	1,
ELU-211			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-211			Linear Static	SCU	0,
ELU-211	Linear Add	No	Linear Static	VTSSC	0,
ELU-211			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-211	Linear Add	No	Linear Static	VV	0,
ELU-211			Linear Static	VLSSC	1,5
ELU-211			Linear Static	VLSC	0,
ELU-211			Linear Static	TU-DIL	0,315
ELU-211			Linear Static	TU-CON	0,
ELU-211			Linear Static	GRA-HEAT	0,
ELU-211			Linear Static	GRA-COOL	0,9
ELU-212			Linear Static	PP	1,
ELU-212			Linear Static	CM-TUBERIA	1,
ELU-212			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-212	Linear Add	No	Linear Static	SCU	0,
ELU-212			Linear Static	VTSSC	0,
ELU-212			Linear Static	VTSC	0,
ELU-212			Linear Static	VV	0,
ELU-212			Linear Static	VLSSC	1,5
ELU-212			Linear Static	VLSC	0,
ELU-212			Linear Static	TU-DIL	0,
ELU-212			Linear Static	TU-CON	0,315
ELU-212			Linear Static	GRA-HEAT	0,
ELU-212			Linear Static	GRA-COOL	0,9
ELU-213	Linear Add	No	Linear Static	PP	1,
ELU-213			Linear Static	CM-TUBERIA	1,
ELU-213			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-213			Linear Static	SCU	0,
ELU-213			Linear Static	VTSSC	0,
ELU-213			Linear Static	VTSC	0,
ELU-213			Linear Static	VV	0,
ELU-213			Linear Static	VLSSC	1,5
ELU-213			Linear Static	VLSC	0,
ELU-213			Linear Static	TU-DIL	0,9
ELU-213	Linear Add	No	Linear Static	TU-CON	0,
ELU-213			Linear Static	GRA-HEAT	0,675
ELU-213			Linear Static	GRA-COOL	0,
ELU-214			Linear Static	PP	1,
ELU-214			Linear Static	CM-TUBERIA	1,
ELU-214			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-214			Linear Static	SCU	0,
ELU-214			Linear Static	VTSSC	0,
ELU-214			Linear Static	VTSC	0,
ELU-214			Linear Static	VV	0,
ELU-214	Linear Add	No	Linear Static	VLSSC	1,5
ELU-214			Linear Static	VLSC	0,
ELU-214			Linear Static	TU-DIL	0,
ELU-214			Linear Static	TU-CON	0,9
ELU-214			Linear Static	GRA-HEAT	0,675
ELU-214			Linear Static	GRA-COOL	0,
ELU-215			Linear Static	PP	1,
ELU-215			Linear Static	CM-TUBERIA	1,
ELU-215			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-215			Linear Static	SCU	0,
ELU-215	Linear Add	No	Linear Static	VTSSC	0,
ELU-215			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-215	Linear Add	No	Linear Static	VV	0,
ELU-215			Linear Static	VLSSC	1,5
ELU-215			Linear Static	VLCSC	0,
ELU-215			Linear Static	TU-DIL	0,9
ELU-215			Linear Static	TU-CON	0,
ELU-215			Linear Static	GRA-HEAT	0,
ELU-215			Linear Static	GRA-COOL	0,675
ELU-216			Linear Static	PP	1,
ELU-216			Linear Static	CM-TUBERIA	1,
ELU-216	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,
ELU-216			Linear Static	SCU	0,
ELU-216			Linear Static	VTSSC	0,
ELU-216			Linear Static	UTCSC	0,
ELU-216			Linear Static	VV	0,
ELU-216			Linear Static	VLSSC	1,5
ELU-216			Linear Static	VLCSC	0,
ELU-216			Linear Static	TU-DIL	0,
ELU-216			Linear Static	TU-CON	0,9
ELU-216	Linear Add	No	Linear Static	GRA-HEAT	0,
ELU-216			Linear Static	GRA-COOL	0,675
ELU-217			Linear Static	PP	1,
ELU-217			Linear Static	CM-TUBERIA	1,
ELU-217			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-217			Linear Static	SCU	0,54
ELU-217			Linear Static	VTSSC	0,
ELU-217			Linear Static	UTCSC	0,
ELU-217			Linear Static	VV	0,
ELU-217	Linear Add	No	Linear Static	VLSSC	0,
ELU-217			Linear Static	VLCSC	1,5
ELU-217			Linear Static	TU-DIL	0,315
ELU-217			Linear Static	TU-CON	0,
ELU-217			Linear Static	GRA-HEAT	0,9
ELU-217			Linear Static	GRA-COOL	0,
ELU-218			Linear Static	PP	1,
ELU-218			Linear Static	CM-TUBERIA	1,
ELU-218			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-218	Linear Add	No	Linear Static	SCU	0,54
ELU-218			Linear Static	VTSSC	0,
ELU-218			Linear Static	UTCSC	0,
ELU-218			Linear Static	VV	0,
ELU-218			Linear Static	VLSSC	0,
ELU-218			Linear Static	VLCSC	1,5
ELU-218			Linear Static	TU-DIL	0,
ELU-218			Linear Static	TU-CON	0,315
ELU-218			Linear Static	GRA-HEAT	0,9
ELU-218	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-219			Linear Static	PP	1,
ELU-219			Linear Static	CM-TUBERIA	1,
ELU-219			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-219			Linear Static	SCU	0,54
ELU-219			Linear Static	VTSSC	0,
ELU-219			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-219	Linear Add	No	Linear Static	VV	0,
ELU-219			Linear Static	VLSSC	0,
ELU-219			Linear Static	VLSC	1,5
ELU-219			Linear Static	TU-DIL	0,315
ELU-219			Linear Static	TU-CON	0,
ELU-219			Linear Static	GRA-HEAT	0,
ELU-219			Linear Static	GRA-COOL	0,9
ELU-220			Linear Static	PP	1,
ELU-220			Linear Static	CM-TUBERIA	1,
ELU-220			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-220	Linear Add	No	Linear Static	SCU	0,54
ELU-220			Linear Static	VTSSC	0,
ELU-220			Linear Static	VTSC	0,
ELU-220			Linear Static	VV	0,
ELU-220			Linear Static	VLSSC	0,
ELU-220			Linear Static	VLSC	1,5
ELU-220			Linear Static	TU-DIL	0,
ELU-220			Linear Static	TU-CON	0,315
ELU-220			Linear Static	GRA-HEAT	0,
ELU-220			Linear Static	GRA-COOL	0,9
ELU-221	Linear Add	No	Linear Static	PP	1,
ELU-221			Linear Static	CM-TUBERIA	1,
ELU-221			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-221			Linear Static	SCU	0,54
ELU-221			Linear Static	VTSSC	0,
ELU-221			Linear Static	VTSC	0,
ELU-221			Linear Static	VV	0,
ELU-221			Linear Static	VLSSC	0,
ELU-221			Linear Static	VLSC	1,5
ELU-221			Linear Static	TU-DIL	0,9
ELU-221	Linear Add	No	Linear Static	TU-CON	0,
ELU-221			Linear Static	GRA-HEAT	0,675
ELU-221			Linear Static	GRA-COOL	0,
ELU-222			Linear Static	PP	1,
ELU-222			Linear Static	CM-TUBERIA	1,
ELU-222			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-222			Linear Static	SCU	0,54
ELU-222			Linear Static	VTSSC	0,
ELU-222			Linear Static	VTSC	0,
ELU-222			Linear Static	VV	0,
ELU-222	Linear Add	No	Linear Static	VLSSC	0,
ELU-222			Linear Static	VLSC	1,5
ELU-222			Linear Static	TU-DIL	0,
ELU-222			Linear Static	TU-CON	0,9
ELU-222			Linear Static	GRA-HEAT	0,675
ELU-222			Linear Static	GRA-COOL	0,
ELU-223			Linear Static	PP	1,
ELU-223			Linear Static	CM-TUBERIA	1,
ELU-223			Linear Static	CM-TRAMEX+REJILLA	1,
ELU-223			Linear Static	SCU	0,54
ELU-223	Linear Add	No	Linear Static	VTSSC	0,
ELU-223			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-223	Linear Add	No	Linear Static	VV	0,
ELU-223			Linear Static	VLSSC	0,
ELU-223			Linear Static	VLCSC	1,5
ELU-223			Linear Static	TU-DIL	0,9
ELU-223			Linear Static	TU-CON	0,
ELU-223			Linear Static	GRA-HEAT	0,
ELU-223			Linear Static	GRA-COOL	0,675
ELU-224			Linear Static	PP	1,
ELU-224			Linear Static	CM-TUBERIA	1,
ELU-224			Linear Static	CM- TRAMEX+REJILLA	1,
ELU-224	Linear Add	No	Linear Static	SCU	0,54
ELU-224			Linear Static	VTSSC	0,
ELU-224			Linear Static	VTSCC	0,
ELU-224			Linear Static	VV	0,
ELU-224			Linear Static	VLSSC	0,
ELU-224			Linear Static	VLCSC	1,5
ELU-224			Linear Static	TU-DIL	0,
ELU-224			Linear Static	TU-CON	0,9
ELU-224			Linear Static	GRA-HEAT	0,
ELU-224			Linear Static	GRA-COOL	0,675
ELU-225	Linear Add	No	Linear Static	PP	1,35
ELU-225			Linear Static	CM-TUBERIA	1,35
ELU-225			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-225			Linear Static	SCU	0,54
ELU-225			Linear Static	VTSSC	0,
ELU-225			Linear Static	VTSCC	0,
ELU-225			Linear Static	VV	0,
ELU-225			Linear Static	VLSSC	0,
ELU-225			Linear Static	VLCSC	0,
ELU-225			Linear Static	TU-DIL	0,525
ELU-225	Linear Add	No	Linear Static	TU-CON	0,
ELU-225			Linear Static	GRA-HEAT	1,5
ELU-225			Linear Static	GRA-COOL	0,
ELU-226			Linear Static	PP	1,35
ELU-226			Linear Static	CM-TUBERIA	1,35
ELU-226			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-226			Linear Static	SCU	0,54
ELU-226			Linear Static	VTSSC	0,
ELU-226			Linear Static	VTSCC	0,
ELU-226			Linear Static	VV	0,
ELU-226	Linear Add	No	Linear Static	VLSSC	0,
ELU-226			Linear Static	VLCSC	0,
ELU-226			Linear Static	TU-DIL	0,
ELU-226			Linear Static	TU-CON	0,525
ELU-226			Linear Static	GRA-HEAT	1,5
ELU-226			Linear Static	GRA-COOL	0,
ELU-227			Linear Static	PP	1,35
ELU-227			Linear Static	CM-TUBERIA	1,35
ELU-227			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-227			Linear Static	SCU	0,54
ELU-227	Linear Add	No	Linear Static	VTSSC	0,
ELU-227			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-227	Linear Add	No	Linear Static	VV	0,
ELU-227			Linear Static	VLSSC	0,
ELU-227			Linear Static	VLSC	0,
ELU-227			Linear Static	TU-DIL	0,525
ELU-227			Linear Static	TU-CON	0,
ELU-227			Linear Static	GRA-HEAT	0,
ELU-227			Linear Static	GRA-COOL	1,5
ELU-228			Linear Static	PP	1,35
ELU-228			Linear Static	CM-TUBERIA	1,35
ELU-228			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-228	Linear Add	No	Linear Static	SCU	0,54
ELU-228			Linear Static	VTSSC	0,
ELU-228			Linear Static	VTSC	0,
ELU-228			Linear Static	VV	0,
ELU-228			Linear Static	VLSSC	0,
ELU-228			Linear Static	VLSC	0,
ELU-228			Linear Static	TU-DIL	0,
ELU-228			Linear Static	TU-CON	0,525
ELU-228			Linear Static	GRA-HEAT	0,
ELU-228			Linear Static	GRA-COOL	1,5
ELU-229	Linear Add	No	Linear Static	PP	1,35
ELU-229			Linear Static	CM-TUBERIA	1,35
ELU-229			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-229			Linear Static	SCU	0,54
ELU-229			Linear Static	VTSSC	0,
ELU-229			Linear Static	VTSC	0,
ELU-229			Linear Static	VV	0,
ELU-229			Linear Static	VLSSC	0,
ELU-229			Linear Static	VLSC	0,
ELU-229			Linear Static	TU-DIL	1,5
ELU-229	Linear Add	No	Linear Static	TU-CON	0,
ELU-229			Linear Static	GRA-HEAT	1,125
ELU-229			Linear Static	GRA-COOL	0,
ELU-230			Linear Static	PP	1,35
ELU-230			Linear Static	CM-TUBERIA	1,35
ELU-230			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-230			Linear Static	SCU	0,54
ELU-230			Linear Static	VTSSC	0,
ELU-230			Linear Static	VTSC	0,
ELU-230			Linear Static	VV	0,
ELU-230	Linear Add	No	Linear Static	VLSSC	0,
ELU-230			Linear Static	VLSC	0,
ELU-230			Linear Static	TU-DIL	0,
ELU-230			Linear Static	TU-CON	1,5
ELU-230			Linear Static	GRA-HEAT	1,125
ELU-230			Linear Static	GRA-COOL	0,
ELU-231			Linear Static	PP	1,35
ELU-231			Linear Static	CM-TUBERIA	1,35
ELU-231			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-231			Linear Static	SCU	0,54
ELU-231			Linear Static	VTSSC	0,
ELU-231			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-231	Linear Add	No	Linear Static	VV	0,
ELU-231			Linear Static	VLSSC	0,
ELU-231			Linear Static	VLCSC	0,
ELU-231			Linear Static	TU-DIL	1,5
ELU-231			Linear Static	TU-CON	0,
ELU-231			Linear Static	GRA-HEAT	0,
ELU-231			Linear Static	GRA-COOL	1,125
ELU-232			Linear Static	PP	1,35
ELU-232			Linear Static	CM-TUBERIA	1,35
ELU-232			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-232	Linear Add	No	Linear Static	SCU	0,54
ELU-232			Linear Static	VTSSC	0,
ELU-232			Linear Static	UTCSC	0,
ELU-232			Linear Static	VV	0,
ELU-232			Linear Static	VLSSC	0,
ELU-232			Linear Static	VLCSC	0,
ELU-232			Linear Static	TU-DIL	0,
ELU-232			Linear Static	TU-CON	1,5
ELU-232			Linear Static	GRA-HEAT	0,
ELU-232			Linear Static	GRA-COOL	1,125
ELU-233			Linear Static	PP	1,35
ELU-233			Linear Static	CM-TUBERIA	1,35
ELU-233			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-233	Linear Add	No	Linear Static	SCU	0,54
ELU-233			Linear Static	VTSSC	0,
ELU-233			Linear Static	UTCSC	0,45
ELU-233			Linear Static	VV	0,
ELU-233			Linear Static	VLSSC	0,
ELU-233			Linear Static	VLCSC	0,
ELU-233			Linear Static	TU-DIL	0,525
ELU-233			Linear Static	TU-CON	0,
ELU-233			Linear Static	GRA-HEAT	1,5
ELU-233			Linear Static	GRA-COOL	0,
ELU-234			Linear Static	PP	1,35
ELU-234			Linear Static	CM-TUBERIA	1,35
ELU-234			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-234	Linear Add	No	Linear Static	SCU	0,54
ELU-234			Linear Static	VTSSC	0,
ELU-234			Linear Static	UTCSC	0,45
ELU-234			Linear Static	VV	0,
ELU-234			Linear Static	VLSSC	0,
ELU-234			Linear Static	VLCSC	0,
ELU-234			Linear Static	TU-DIL	0,
ELU-234			Linear Static	TU-CON	0,525
ELU-234			Linear Static	GRA-HEAT	1,5
ELU-234			Linear Static	GRA-COOL	0,
ELU-235			Linear Static	PP	1,35
ELU-235			Linear Static	CM-TUBERIA	1,35
ELU-235			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-235	Linear Add	No	Linear Static	SCU	0,54
ELU-235			Linear Static	VTSSC	0,
ELU-235			Linear Static	UTCSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-235	Linear Add	No	Linear Static	VV	0,
ELU-235			Linear Static	VLSSC	0,
ELU-235			Linear Static	VLSC	0,
ELU-235			Linear Static	TU-DIL	0,525
ELU-235			Linear Static	TU-CON	0,
ELU-235			Linear Static	GRA-HEAT	0,
ELU-235			Linear Static	GRA-COOL	1,5
ELU-236			Linear Static	PP	1,35
ELU-236			Linear Static	CM-TUBERIA	1,35
ELU-236			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-236	Linear Add	No	Linear Static	SCU	0,54
ELU-236			Linear Static	VTSSC	0,
ELU-236			Linear Static	VTSC	0,45
ELU-236			Linear Static	VV	0,
ELU-236			Linear Static	VLSSC	0,
ELU-236			Linear Static	VLSC	0,
ELU-236			Linear Static	TU-DIL	0,
ELU-236			Linear Static	TU-CON	0,525
ELU-236			Linear Static	GRA-HEAT	0,
ELU-236			Linear Static	GRA-COOL	1,5
ELU-237	Linear Add	No	Linear Static	PP	1,35
ELU-237			Linear Static	CM-TUBERIA	1,35
ELU-237			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-237			Linear Static	SCU	0,54
ELU-237			Linear Static	VTSSC	0,
ELU-237			Linear Static	VTSC	0,45
ELU-237			Linear Static	VV	0,
ELU-237			Linear Static	VLSSC	0,
ELU-237			Linear Static	VLSC	0,
ELU-237			Linear Static	TU-DIL	1,5
ELU-237	Linear Add	No	Linear Static	TU-CON	0,
ELU-237			Linear Static	GRA-HEAT	1,125
ELU-237			Linear Static	GRA-COOL	0,
ELU-238			Linear Static	PP	1,35
ELU-238			Linear Static	CM-TUBERIA	1,35
ELU-238			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-238			Linear Static	SCU	0,54
ELU-238			Linear Static	VTSSC	0,
ELU-238			Linear Static	VTSC	0,45
ELU-238			Linear Static	VV	0,
ELU-238	Linear Add	No	Linear Static	VLSSC	0,
ELU-238			Linear Static	VLSC	0,
ELU-238			Linear Static	TU-DIL	0,
ELU-238			Linear Static	TU-CON	1,5
ELU-238			Linear Static	GRA-HEAT	1,125
ELU-238			Linear Static	GRA-COOL	0,
ELU-239			Linear Static	PP	1,35
ELU-239			Linear Static	CM-TUBERIA	1,35
ELU-239			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-239			Linear Static	SCU	0,54
ELU-239			Linear Static	VTSSC	0,
ELU-239			Linear Static	VTSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-239	Linear Add	No	Linear Static	VV	0,
ELU-239			Linear Static	VLSSC	0,
ELU-239			Linear Static	VLCSC	0,
ELU-239			Linear Static	TU-DIL	1,5
ELU-239			Linear Static	TU-CON	0,
ELU-239			Linear Static	GRA-HEAT	0,
ELU-239			Linear Static	GRA-COOL	1,125
ELU-240			Linear Static	PP	1,35
ELU-240			Linear Static	CM-TUBERIA	1,35
ELU-240	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-240			Linear Static	SCU	0,54
ELU-240			Linear Static	VTSSC	0,
ELU-240			Linear Static	VTSCC	0,45
ELU-240			Linear Static	VV	0,
ELU-240			Linear Static	VLSSC	0,
ELU-240			Linear Static	VLCSC	0,
ELU-240			Linear Static	TU-DIL	0,
ELU-240			Linear Static	TU-CON	1,5
ELU-240			Linear Static	GRA-HEAT	0,
ELU-240			Linear Static	GRA-COOL	1,125
ELU-241			Linear Static	PP	1,35
ELU-241			Linear Static	CM-TUBERIA	1,35
ELU-241			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-241			Linear Static	SCU	0,54
ELU-241			Linear Static	VTSSC	0,
ELU-241			Linear Static	VTSCC	0,45
ELU-241			Linear Static	VV	0,45
ELU-241			Linear Static	VLSSC	0,
ELU-241			Linear Static	VLCSC	0,
ELU-241			Linear Static	TU-DIL	0,525
ELU-241			Linear Static	TU-CON	0,
ELU-241			Linear Static	GRA-HEAT	1,5
ELU-241			Linear Static	GRA-COOL	0,
ELU-242	Linear Add	No	Linear Static	PP	1,35
ELU-242			Linear Static	CM-TUBERIA	1,35
ELU-242			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-242			Linear Static	SCU	0,54
ELU-242			Linear Static	VTSSC	0,
ELU-242			Linear Static	VTSCC	0,45
ELU-242			Linear Static	VV	0,45
ELU-242			Linear Static	VLSSC	0,
ELU-242			Linear Static	VLCSC	0,
ELU-242			Linear Static	TU-DIL	0,
ELU-242			Linear Static	TU-CON	0,525
ELU-242			Linear Static	GRA-HEAT	1,5
ELU-242			Linear Static	GRA-COOL	0,
ELU-243			Linear Static	PP	1,35
ELU-243			Linear Static	CM-TUBERIA	1,35
ELU-243			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-243	Linear Add	No	Linear Static	SCU	0,54
ELU-243			Linear Static	VTSSC	0,
ELU-243			Linear Static	VTSCC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-243	Linear Add	No	Linear Static	VV	0,45
ELU-243			Linear Static	VLSSC	0,
ELU-243			Linear Static	VLSC	0,
ELU-243			Linear Static	TU-DIL	0,525
ELU-243			Linear Static	TU-CON	0,
ELU-243			Linear Static	GRA-HEAT	0,
ELU-243			Linear Static	GRA-COOL	1,5
ELU-244			Linear Static	PP	1,35
ELU-244			Linear Static	CM-TUBERIA	1,35
ELU-244			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-244	Linear Add	No	Linear Static	SCU	0,54
ELU-244			Linear Static	VTSSC	0,
ELU-244			Linear Static	VTSC	0,45
ELU-244			Linear Static	VV	0,45
ELU-244			Linear Static	VLSSC	0,
ELU-244			Linear Static	VLSC	0,
ELU-244			Linear Static	TU-DIL	0,
ELU-244			Linear Static	TU-CON	0,525
ELU-244			Linear Static	GRA-HEAT	0,
ELU-244			Linear Static	GRA-COOL	1,5
ELU-245	Linear Add	No	Linear Static	PP	1,35
ELU-245			Linear Static	CM-TUBERIA	1,35
ELU-245			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-245			Linear Static	SCU	0,54
ELU-245			Linear Static	VTSSC	0,
ELU-245			Linear Static	VTSC	0,45
ELU-245			Linear Static	VV	0,45
ELU-245			Linear Static	VLSSC	0,
ELU-245			Linear Static	VLSC	0,
ELU-245			Linear Static	TU-DIL	1,5
ELU-245	Linear Add	No	Linear Static	TU-CON	0,
ELU-245			Linear Static	GRA-HEAT	1,125
ELU-245			Linear Static	GRA-COOL	0,
ELU-246			Linear Static	PP	1,35
ELU-246			Linear Static	CM-TUBERIA	1,35
ELU-246			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-246			Linear Static	SCU	0,54
ELU-246			Linear Static	VTSSC	0,
ELU-246			Linear Static	VTSC	0,45
ELU-246			Linear Static	VV	0,45
ELU-246	Linear Add	No	Linear Static	VLSSC	0,
ELU-246			Linear Static	VLSC	0,
ELU-246			Linear Static	TU-DIL	0,
ELU-246			Linear Static	TU-CON	1,5
ELU-246			Linear Static	GRA-HEAT	1,125
ELU-246			Linear Static	GRA-COOL	0,
ELU-247			Linear Static	PP	1,35
ELU-247			Linear Static	CM-TUBERIA	1,35
ELU-247			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-247			Linear Static	SCU	0,54
ELU-247			Linear Static	VTSSC	0,
ELU-247			Linear Static	VTSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-247	Linear Add	No	Linear Static	VV	0,45
ELU-247			Linear Static	VLSSC	0,
ELU-247			Linear Static	VLCSC	0,
ELU-247			Linear Static	TU-DIL	1,5
ELU-247			Linear Static	TU-CON	0,
ELU-247			Linear Static	GRA-HEAT	0,
ELU-247			Linear Static	GRA-COOL	1,125
ELU-248			Linear Static	PP	1,35
ELU-248			Linear Static	CM-TUBERIA	1,35
ELU-248			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-248	Linear Add	No	Linear Static	SCU	0,54
ELU-248			Linear Static	VTSSC	0,
ELU-248			Linear Static	VTSCC	0,45
ELU-248			Linear Static	VV	0,45
ELU-248			Linear Static	VLSSC	0,
ELU-248			Linear Static	VLCSC	0,
ELU-248			Linear Static	TU-DIL	0,
ELU-248			Linear Static	TU-CON	1,5
ELU-248			Linear Static	GRA-HEAT	0,
ELU-248			Linear Static	GRA-COOL	1,125
ELU-249	Linear Add	No	Linear Static	PP	1,35
ELU-249			Linear Static	CM-TUBERIA	1,35
ELU-249			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-249			Linear Static	SCU	0,
ELU-249			Linear Static	VTSSC	0,45
ELU-249			Linear Static	VTSCC	0,
ELU-249			Linear Static	VV	0,
ELU-249			Linear Static	VLSSC	0,
ELU-249			Linear Static	VLCSC	0,
ELU-249			Linear Static	TU-DIL	0,525
ELU-249	Linear Add	No	Linear Static	TU-CON	0,
ELU-249			Linear Static	GRA-HEAT	1,5
ELU-249			Linear Static	GRA-COOL	0,
ELU-250			Linear Static	PP	1,35
ELU-250			Linear Static	CM-TUBERIA	1,35
ELU-250			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-250			Linear Static	SCU	0,
ELU-250			Linear Static	VTSSC	0,45
ELU-250			Linear Static	VTSCC	0,
ELU-250			Linear Static	VV	0,
ELU-250	Linear Add	No	Linear Static	VLSSC	0,
ELU-250			Linear Static	VLCSC	0,
ELU-250			Linear Static	TU-DIL	0,
ELU-250			Linear Static	TU-CON	0,525
ELU-250			Linear Static	GRA-HEAT	1,5
ELU-250			Linear Static	GRA-COOL	0,
ELU-251			Linear Static	PP	1,35
ELU-251			Linear Static	CM-TUBERIA	1,35
ELU-251			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-251			Linear Static	SCU	0,
ELU-251	Linear Add	No	Linear Static	VTSSC	0,45
ELU-251			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-251	Linear Add	No	Linear Static	VV	0,
ELU-251			Linear Static	VLSSC	0,
ELU-251			Linear Static	VLSCC	0,
ELU-251			Linear Static	TU-DIL	0,525
ELU-251			Linear Static	TU-CON	0,
ELU-251			Linear Static	GRA-HEAT	0,
ELU-251			Linear Static	GRA-COOL	1,5
ELU-252			Linear Static	PP	1,35
ELU-252			Linear Static	CM-TUBERIA	1,35
ELU-252			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-252	Linear Add	No	Linear Static	SCU	0,
ELU-252			Linear Static	VTSSC	0,45
ELU-252			Linear Static	VTSCC	0,
ELU-252			Linear Static	VV	0,
ELU-252			Linear Static	VLSSC	0,
ELU-252			Linear Static	VLSCC	0,
ELU-252			Linear Static	TU-DIL	0,
ELU-252			Linear Static	TU-CON	0,525
ELU-252			Linear Static	GRA-HEAT	0,
ELU-252			Linear Static	GRA-COOL	1,5
ELU-253	Linear Add	No	Linear Static	PP	1,35
ELU-253			Linear Static	CM-TUBERIA	1,35
ELU-253			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-253			Linear Static	SCU	0,
ELU-253			Linear Static	VTSSC	0,45
ELU-253			Linear Static	VTSCC	0,
ELU-253			Linear Static	VV	0,
ELU-253			Linear Static	VLSSC	0,
ELU-253			Linear Static	VLSCC	0,
ELU-253			Linear Static	TU-DIL	1,5
ELU-253	Linear Add	No	Linear Static	TU-CON	0,
ELU-253			Linear Static	GRA-HEAT	1,125
ELU-253			Linear Static	GRA-COOL	0,
ELU-254			Linear Static	PP	1,35
ELU-254			Linear Static	CM-TUBERIA	1,35
ELU-254			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-254			Linear Static	SCU	0,
ELU-254			Linear Static	VTSSC	0,45
ELU-254			Linear Static	VTSCC	0,
ELU-254			Linear Static	VV	0,
ELU-254	Linear Add	No	Linear Static	VLSSC	0,
ELU-254			Linear Static	VLSCC	0,
ELU-254			Linear Static	TU-DIL	0,
ELU-254			Linear Static	TU-CON	1,5
ELU-254			Linear Static	GRA-HEAT	1,125
ELU-254			Linear Static	GRA-COOL	0,
ELU-255			Linear Static	PP	1,35
ELU-255			Linear Static	CM-TUBERIA	1,35
ELU-255			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-255			Linear Static	SCU	0,
ELU-255			Linear Static	VTSSC	0,45
ELU-255			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-255	Linear Add	No	Linear Static	VV	0,
ELU-255			Linear Static	VLSSC	0,
ELU-255			Linear Static	VLCSC	0,
ELU-255			Linear Static	TU-DIL	1,5
ELU-255			Linear Static	TU-CON	0,
ELU-255			Linear Static	GRA-HEAT	0,
ELU-255			Linear Static	GRA-COOL	1,125
ELU-256			Linear Static	PP	1,35
ELU-256			Linear Static	CM-TUBERIA	1,35
ELU-256			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-256	Linear Add	No	Linear Static	SCU	0,
ELU-256			Linear Static	VTSSC	0,45
ELU-256			Linear Static	UTCSC	0,
ELU-256			Linear Static	VV	0,
ELU-256			Linear Static	VLSSC	0,
ELU-256			Linear Static	VLCSC	0,
ELU-256			Linear Static	TU-DIL	0,
ELU-256			Linear Static	TU-CON	1,5
ELU-256			Linear Static	GRA-HEAT	0,
ELU-256			Linear Static	GRA-COOL	1,125
ELU-257	Linear Add	No	Linear Static	PP	1,35
ELU-257			Linear Static	CM-TUBERIA	1,35
ELU-257			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-257			Linear Static	SCU	0,
ELU-257			Linear Static	VTSSC	0,45
ELU-257			Linear Static	UTCSC	0,
ELU-257			Linear Static	VV	0,45
ELU-257			Linear Static	VLSSC	0,
ELU-257			Linear Static	VLCSC	0,
ELU-257			Linear Static	TU-DIL	0,525
ELU-257	Linear Add	No	Linear Static	TU-CON	0,
ELU-257			Linear Static	GRA-HEAT	1,5
ELU-257			Linear Static	GRA-COOL	0,
ELU-258			Linear Static	PP	1,35
ELU-258			Linear Static	CM-TUBERIA	1,35
ELU-258			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-258			Linear Static	SCU	0,
ELU-258			Linear Static	VTSSC	0,45
ELU-258			Linear Static	UTCSC	0,
ELU-258			Linear Static	VV	0,45
ELU-258	Linear Add	No	Linear Static	VLSSC	0,
ELU-258			Linear Static	VLCSC	0,
ELU-258			Linear Static	TU-DIL	0,
ELU-258			Linear Static	TU-CON	0,525
ELU-258			Linear Static	GRA-HEAT	1,5
ELU-258			Linear Static	GRA-COOL	0,
ELU-259			Linear Static	PP	1,35
ELU-259			Linear Static	CM-TUBERIA	1,35
ELU-259			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-259			Linear Static	SCU	0,
ELU-259	Linear Add	No	Linear Static	VTSSC	0,45
ELU-259			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-259	Linear Add	No	Linear Static	VV	0,45
ELU-259			Linear Static	VLSSC	0,
ELU-259			Linear Static	VLSC	0,
ELU-259			Linear Static	TU-DIL	0,525
ELU-259			Linear Static	TU-CON	0,
ELU-259			Linear Static	GRA-HEAT	0,
ELU-259			Linear Static	GRA-COOL	1,5
ELU-260			Linear Static	PP	1,35
ELU-260			Linear Static	CM-TUBERIA	1,35
ELU-260			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-260	Linear Add	No	Linear Static	SCU	0,
ELU-260			Linear Static	VTSSC	0,45
ELU-260			Linear Static	VTSC	0,
ELU-260			Linear Static	VV	0,45
ELU-260			Linear Static	VLSSC	0,
ELU-260			Linear Static	VLSC	0,
ELU-260			Linear Static	TU-DIL	0,
ELU-260			Linear Static	TU-CON	0,525
ELU-260			Linear Static	GRA-HEAT	0,
ELU-260			Linear Static	GRA-COOL	1,5
ELU-261	Linear Add	No	Linear Static	PP	1,35
ELU-261			Linear Static	CM-TUBERIA	1,35
ELU-261			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-261			Linear Static	SCU	0,
ELU-261			Linear Static	VTSSC	0,45
ELU-261			Linear Static	VTSC	0,
ELU-261			Linear Static	VV	0,45
ELU-261			Linear Static	VLSSC	0,
ELU-261			Linear Static	VLSC	0,
ELU-261			Linear Static	TU-DIL	1,5
ELU-261	Linear Add	No	Linear Static	TU-CON	0,
ELU-261			Linear Static	GRA-HEAT	1,125
ELU-261			Linear Static	GRA-COOL	0,
ELU-262			Linear Static	PP	1,35
ELU-262			Linear Static	CM-TUBERIA	1,35
ELU-262			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-262			Linear Static	SCU	0,
ELU-262			Linear Static	VTSSC	0,45
ELU-262			Linear Static	VTSC	0,
ELU-262			Linear Static	VV	0,45
ELU-262	Linear Add	No	Linear Static	VLSSC	0,
ELU-262			Linear Static	VLSC	0,
ELU-262			Linear Static	TU-DIL	0,
ELU-262			Linear Static	TU-CON	1,5
ELU-262			Linear Static	GRA-HEAT	1,125
ELU-262			Linear Static	GRA-COOL	0,
ELU-263			Linear Static	PP	1,35
ELU-263			Linear Static	CM-TUBERIA	1,35
ELU-263			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-263			Linear Static	SCU	0,
ELU-263			Linear Static	VTSSC	0,45
ELU-263			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-263	Linear Add	No	Linear Static	VV	0,45
ELU-263			Linear Static	VLSSC	0,
ELU-263			Linear Static	VLCSC	0,
ELU-263			Linear Static	TU-DIL	1,5
ELU-263			Linear Static	TU-CON	0,
ELU-263			Linear Static	GRA-HEAT	0,
ELU-263			Linear Static	GRA-COOL	1,125
ELU-264			Linear Static	PP	1,35
ELU-264			Linear Static	CM-TUBERIA	1,35
ELU-264			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-264	Linear Add	No	Linear Static	SCU	0,
ELU-264			Linear Static	VTSSC	0,45
ELU-264			Linear Static	UTCSC	0,
ELU-264			Linear Static	VV	0,45
ELU-264			Linear Static	VLSSC	0,
ELU-264			Linear Static	VLCSC	0,
ELU-264			Linear Static	TU-DIL	0,
ELU-264			Linear Static	TU-CON	1,5
ELU-264			Linear Static	GRA-HEAT	0,
ELU-264			Linear Static	GRA-COOL	1,125
ELU-265	Linear Add	No	Linear Static	PP	1,35
ELU-265			Linear Static	CM-TUBERIA	1,35
ELU-265			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-265			Linear Static	SCU	0,
ELU-265			Linear Static	VTSSC	0,
ELU-265			Linear Static	UTCSC	0,
ELU-265			Linear Static	VV	0,
ELU-265			Linear Static	VLSSC	0,45
ELU-265			Linear Static	VLCSC	0,
ELU-265			Linear Static	TU-DIL	0,525
ELU-265	Linear Add	No	Linear Static	TU-CON	0,
ELU-265			Linear Static	GRA-HEAT	1,5
ELU-265			Linear Static	GRA-COOL	0,
ELU-266			Linear Static	PP	1,35
ELU-266			Linear Static	CM-TUBERIA	1,35
ELU-266			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-266			Linear Static	SCU	0,
ELU-266			Linear Static	VTSSC	0,
ELU-266			Linear Static	UTCSC	0,
ELU-266			Linear Static	VV	0,
ELU-266	Linear Add	No	Linear Static	VLSSC	0,45
ELU-266			Linear Static	VLCSC	0,
ELU-266			Linear Static	TU-DIL	0,
ELU-266			Linear Static	TU-CON	0,525
ELU-266			Linear Static	GRA-HEAT	1,5
ELU-266			Linear Static	GRA-COOL	0,
ELU-267			Linear Static	PP	1,35
ELU-267			Linear Static	CM-TUBERIA	1,35
ELU-267			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-267			Linear Static	SCU	0,
ELU-267	Linear Add	No	Linear Static	VTSSC	0,
ELU-267			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-267	Linear Add	No	Linear Static	VV	0,
ELU-267			Linear Static	VLSSC	0,45
ELU-267			Linear Static	VLSCC	0,
ELU-267			Linear Static	TU-DIL	0,525
ELU-267			Linear Static	TU-CON	0,
ELU-267			Linear Static	GRA-HEAT	0,
ELU-267			Linear Static	GRA-COOL	1,5
ELU-268			Linear Static	PP	1,35
ELU-268			Linear Static	CM-TUBERIA	1,35
ELU-268			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-268	Linear Add	No	Linear Static	SCU	0,
ELU-268			Linear Static	VTSSC	0,
ELU-268			Linear Static	VTSCC	0,
ELU-268			Linear Static	VV	0,
ELU-268			Linear Static	VLSSC	0,45
ELU-268			Linear Static	VLSCC	0,
ELU-268			Linear Static	TU-DIL	0,
ELU-268			Linear Static	TU-CON	0,525
ELU-268			Linear Static	GRA-HEAT	0,
ELU-268			Linear Static	GRA-COOL	1,5
ELU-269	Linear Add	No	Linear Static	PP	1,35
ELU-269			Linear Static	CM-TUBERIA	1,35
ELU-269			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-269			Linear Static	SCU	0,
ELU-269			Linear Static	VTSSC	0,
ELU-269			Linear Static	VTSCC	0,
ELU-269			Linear Static	VV	0,
ELU-269			Linear Static	VLSSC	0,45
ELU-269			Linear Static	VLSCC	0,
ELU-269	Linear Add	No	Linear Static	TU-DIL	1,5
ELU-269			Linear Static	TU-CON	0,
ELU-269			Linear Static	GRA-HEAT	1,125
ELU-269			Linear Static	GRA-COOL	0,
ELU-270			Linear Static	PP	1,35
ELU-270			Linear Static	CM-TUBERIA	1,35
ELU-270			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-270			Linear Static	SCU	0,
ELU-270			Linear Static	VTSSC	0,
ELU-270	Linear Add	No	Linear Static	VTSCC	0,
ELU-270			Linear Static	VV	0,
ELU-270			Linear Static	VLSSC	0,45
ELU-270			Linear Static	VLSCC	0,
ELU-270			Linear Static	TU-DIL	0,
ELU-270			Linear Static	TU-CON	1,5
ELU-270			Linear Static	GRA-HEAT	1,125
ELU-270			Linear Static	GRA-COOL	0,
ELU-271			Linear Static	PP	1,35
ELU-271	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-271			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-271			Linear Static	SCU	0,
ELU-271			Linear Static	VTSSC	0,
ELU-271			Linear Static	VTSCC	0,
ELU-271			Linear Static	VV	0,
ELU-271			Linear Static	VLSSC	0,45
ELU-271			Linear Static	VLSCC	0,
ELU-271			Linear Static	TU-DIL	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-271	Linear Add	No	Linear Static	VV	0,
ELU-271			Linear Static	VLSSC	0,45
ELU-271			Linear Static	VLCSC	0,
ELU-271			Linear Static	TU-DIL	1,5
ELU-271			Linear Static	TU-CON	0,
ELU-271			Linear Static	GRA-HEAT	0,
ELU-271			Linear Static	GRA-COOL	1,125
ELU-272			Linear Static	PP	1,35
ELU-272			Linear Static	CM-TUBERIA	1,35
ELU-272			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-272	Linear Add	No	Linear Static	SCU	0,
ELU-272			Linear Static	VTSSC	0,
ELU-272			Linear Static	UTCSC	0,
ELU-272			Linear Static	VV	0,
ELU-272			Linear Static	VLSSC	0,45
ELU-272			Linear Static	VLCSC	0,
ELU-272			Linear Static	TU-DIL	0,
ELU-272			Linear Static	TU-CON	1,5
ELU-272			Linear Static	GRA-HEAT	0,
ELU-272			Linear Static	GRA-COOL	1,125
ELU-273	Linear Add	No	Linear Static	PP	1,35
ELU-273			Linear Static	CM-TUBERIA	1,35
ELU-273			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-273			Linear Static	SCU	0,54
ELU-273			Linear Static	VTSSC	0,
ELU-273			Linear Static	UTCSC	0,
ELU-273			Linear Static	VV	0,
ELU-273			Linear Static	VLSSC	0,
ELU-273			Linear Static	VLCSC	0,45
ELU-273			Linear Static	TU-DIL	0,525
ELU-273	Linear Add	No	Linear Static	TU-CON	0,
ELU-273			Linear Static	GRA-HEAT	1,5
ELU-273			Linear Static	GRA-COOL	0,
ELU-274			Linear Static	PP	1,35
ELU-274			Linear Static	CM-TUBERIA	1,35
ELU-274			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-274			Linear Static	SCU	0,54
ELU-274			Linear Static	VTSSC	0,
ELU-274			Linear Static	UTCSC	0,
ELU-274			Linear Static	VV	0,
ELU-274	Linear Add	No	Linear Static	VLSSC	0,
ELU-274			Linear Static	VLCSC	0,45
ELU-274			Linear Static	TU-DIL	0,
ELU-274			Linear Static	TU-CON	0,525
ELU-274			Linear Static	GRA-HEAT	1,5
ELU-274			Linear Static	GRA-COOL	0,
ELU-275			Linear Static	PP	1,35
ELU-275			Linear Static	CM-TUBERIA	1,35
ELU-275			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-275			Linear Static	SCU	0,54
ELU-275	Linear Add	No	Linear Static	VTSSC	0,
ELU-275			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-275	Linear Add	No	Linear Static	VV	0,
ELU-275			Linear Static	VLSSC	0,
ELU-275			Linear Static	VLSC	0,45
ELU-275			Linear Static	TU-DIL	0,525
ELU-275			Linear Static	TU-CON	0,
ELU-275			Linear Static	GRA-HEAT	0,
ELU-275			Linear Static	GRA-COOL	1,5
ELU-276			Linear Static	PP	1,35
ELU-276			Linear Static	CM-TUBERIA	1,35
ELU-276			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-276	Linear Add	No	Linear Static	SCU	0,54
ELU-276			Linear Static	VTSSC	0,
ELU-276			Linear Static	VTSC	0,
ELU-276			Linear Static	VV	0,
ELU-276			Linear Static	VLSSC	0,
ELU-276			Linear Static	VLSC	0,45
ELU-276			Linear Static	TU-DIL	0,
ELU-276			Linear Static	TU-CON	0,525
ELU-276			Linear Static	GRA-HEAT	0,
ELU-276			Linear Static	GRA-COOL	1,5
ELU-277	Linear Add	No	Linear Static	PP	1,35
ELU-277			Linear Static	CM-TUBERIA	1,35
ELU-277			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-277			Linear Static	SCU	0,54
ELU-277			Linear Static	VTSSC	0,
ELU-277			Linear Static	VTSC	0,
ELU-277			Linear Static	VV	0,
ELU-277			Linear Static	VLSSC	0,
ELU-277			Linear Static	VLSC	0,45
ELU-277			Linear Static	TU-DIL	1,5
ELU-277	Linear Add	No	Linear Static	TU-CON	0,
ELU-277			Linear Static	GRA-HEAT	1,125
ELU-277			Linear Static	GRA-COOL	0,
ELU-278			Linear Static	PP	1,35
ELU-278			Linear Static	CM-TUBERIA	1,35
ELU-278			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-278			Linear Static	SCU	0,54
ELU-278			Linear Static	VTSSC	0,
ELU-278			Linear Static	VTSC	0,
ELU-278			Linear Static	VV	0,
ELU-278	Linear Add	No	Linear Static	VLSSC	0,
ELU-278			Linear Static	VLSC	0,45
ELU-278			Linear Static	TU-DIL	0,
ELU-278			Linear Static	TU-CON	1,5
ELU-278			Linear Static	GRA-HEAT	1,125
ELU-278			Linear Static	GRA-COOL	0,
ELU-279			Linear Static	PP	1,35
ELU-279			Linear Static	CM-TUBERIA	1,35
ELU-279			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-279			Linear Static	SCU	0,54
ELU-279	Linear Add	No	Linear Static	VTSSC	0,
ELU-279			Linear Static	VTSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-279	Linear Add	No	Linear Static	VV	0,
ELU-279			Linear Static	VLSSC	0,
ELU-279			Linear Static	VLCSC	0,45
ELU-279			Linear Static	TU-DIL	1,5
ELU-279			Linear Static	TU-CON	0,
ELU-279			Linear Static	GRA-HEAT	0,
ELU-279			Linear Static	GRA-COOL	1,125
ELU-280			Linear Static	PP	1,35
ELU-280			Linear Static	CM-TUBERIA	1,35
ELU-280			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-280	Linear Add	No	Linear Static	SCU	0,54
ELU-280			Linear Static	VTSSC	0,
ELU-280			Linear Static	UTCSC	0,
ELU-280			Linear Static	VV	0,
ELU-280			Linear Static	VLSSC	0,
ELU-280			Linear Static	VLCSC	0,45
ELU-280			Linear Static	TU-DIL	0,
ELU-280			Linear Static	TU-CON	1,5
ELU-280			Linear Static	GRA-HEAT	0,
ELU-280			Linear Static	GRA-COOL	1,125
ELU-281	Linear Add	No	Linear Static	PP	1,35
ELU-281			Linear Static	CM-TUBERIA	1,35
ELU-281			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-281			Linear Static	SCU	0,54
ELU-281			Linear Static	VTSSC	0,
ELU-281			Linear Static	UTCSC	0,
ELU-281			Linear Static	VV	0,
ELU-281			Linear Static	VLSSC	0,
ELU-281			Linear Static	VLCSC	0,
ELU-281			Linear Static	TU-DIL	0,525
ELU-281	Linear Add	No	Linear Static	TU-CON	0,
ELU-281			Linear Static	GRA-HEAT	1,5
ELU-281			Linear Static	GRA-COOL	0,
ELU-282			Linear Static	PP	1,35
ELU-282			Linear Static	CM-TUBERIA	1,35
ELU-282			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-282			Linear Static	SCU	0,54
ELU-282			Linear Static	VTSSC	0,
ELU-282			Linear Static	UTCSC	0,
ELU-282			Linear Static	VV	0,
ELU-282	Linear Add	No	Linear Static	VLSSC	0,
ELU-282			Linear Static	VLCSC	0,
ELU-282			Linear Static	TU-DIL	0,
ELU-282			Linear Static	TU-CON	0,525
ELU-282			Linear Static	GRA-HEAT	1,5
ELU-282			Linear Static	GRA-COOL	0,
ELU-283			Linear Static	PP	1,35
ELU-283			Linear Static	CM-TUBERIA	1,35
ELU-283			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-283			Linear Static	SCU	0,54
ELU-283	Linear Add	No	Linear Static	VTSSC	0,
ELU-283			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-283	Linear Add	No	Linear Static	VV	0,
ELU-283			Linear Static	VLSSC	0,
ELU-283			Linear Static	VLSCC	0,
ELU-283			Linear Static	TU-DIL	0,525
ELU-283			Linear Static	TU-CON	0,
ELU-283			Linear Static	GRA-HEAT	0,
ELU-283			Linear Static	GRA-COOL	1,5
ELU-284			Linear Static	PP	1,35
ELU-284			Linear Static	CM-TUBERIA	1,35
ELU-284			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-284	Linear Add	No	Linear Static	SCU	0,54
ELU-284			Linear Static	VTSSC	0,
ELU-284			Linear Static	VTSCC	0,
ELU-284			Linear Static	VV	0,
ELU-284			Linear Static	VLSSC	0,
ELU-284			Linear Static	VLSCC	0,
ELU-284			Linear Static	TU-DIL	0,
ELU-284			Linear Static	TU-CON	0,525
ELU-284			Linear Static	GRA-HEAT	0,
ELU-284			Linear Static	GRA-COOL	1,5
ELU-285	Linear Add	No	Linear Static	PP	1,35
ELU-285			Linear Static	CM-TUBERIA	1,35
ELU-285			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-285			Linear Static	SCU	0,54
ELU-285			Linear Static	VTSSC	0,
ELU-285			Linear Static	VTSCC	0,
ELU-285			Linear Static	VV	0,
ELU-285			Linear Static	VLSSC	0,
ELU-285			Linear Static	VLSCC	0,
ELU-285			Linear Static	TU-DIL	1,5
ELU-285	Linear Add	No	Linear Static	TU-CON	0,
ELU-285			Linear Static	GRA-HEAT	1,125
ELU-285			Linear Static	GRA-COOL	0,
ELU-286			Linear Static	PP	1,35
ELU-286			Linear Static	CM-TUBERIA	1,35
ELU-286			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-286			Linear Static	SCU	0,54
ELU-286			Linear Static	VTSSC	0,
ELU-286			Linear Static	VTSCC	0,
ELU-286			Linear Static	VV	0,
ELU-286	Linear Add	No	Linear Static	VLSSC	0,
ELU-286			Linear Static	VLSCC	0,
ELU-286			Linear Static	TU-DIL	0,
ELU-286			Linear Static	TU-CON	1,5
ELU-286			Linear Static	GRA-HEAT	1,125
ELU-286			Linear Static	GRA-COOL	0,
ELU-287			Linear Static	PP	1,35
ELU-287			Linear Static	CM-TUBERIA	1,35
ELU-287			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-287			Linear Static	SCU	0,54
ELU-287			Linear Static	VTSSC	0,
ELU-287			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-287	Linear Add	No	Linear Static	VV	0,
ELU-287			Linear Static	VLSSC	0,
ELU-287			Linear Static	VLCSC	0,
ELU-287			Linear Static	TU-DIL	1,5
ELU-287			Linear Static	TU-CON	0,
ELU-287			Linear Static	GRA-HEAT	0,
ELU-287			Linear Static	GRA-COOL	1,125
ELU-288			Linear Static	PP	1,35
ELU-288			Linear Static	CM-TUBERIA	1,35
ELU-288			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-288	Linear Add	No	Linear Static	SCU	0,54
ELU-288			Linear Static	VTSSC	0,
ELU-288			Linear Static	VTSCC	0,
ELU-288			Linear Static	VV	0,
ELU-288			Linear Static	VLSSC	0,
ELU-288			Linear Static	VLCSC	0,
ELU-288			Linear Static	TU-DIL	0,
ELU-288			Linear Static	TU-CON	1,5
ELU-288			Linear Static	GRA-HEAT	0,
ELU-288			Linear Static	GRA-COOL	1,125
ELU-289	Linear Add	No	Linear Static	PP	1,35
ELU-289			Linear Static	CM-TUBERIA	1,35
ELU-289			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-289			Linear Static	SCU	0,54
ELU-289			Linear Static	VTSSC	0,
ELU-289			Linear Static	VTSCC	0,45
ELU-289			Linear Static	VV	0,
ELU-289			Linear Static	VLSSC	0,
ELU-289			Linear Static	VLCSC	0,
ELU-289			Linear Static	TU-DIL	0,525
ELU-289	Linear Add	No	Linear Static	TU-CON	0,
ELU-289			Linear Static	GRA-HEAT	1,5
ELU-289			Linear Static	GRA-COOL	0,
ELU-290			Linear Static	PP	1,35
ELU-290			Linear Static	CM-TUBERIA	1,35
ELU-290			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-290			Linear Static	SCU	0,54
ELU-290			Linear Static	VTSSC	0,
ELU-290			Linear Static	VTSCC	0,45
ELU-290			Linear Static	VV	0,
ELU-290	Linear Add	No	Linear Static	VLSSC	0,
ELU-290			Linear Static	VLCSC	0,
ELU-290			Linear Static	TU-DIL	0,
ELU-290			Linear Static	TU-CON	0,525
ELU-290			Linear Static	GRA-HEAT	1,5
ELU-290			Linear Static	GRA-COOL	0,
ELU-291			Linear Static	PP	1,35
ELU-291			Linear Static	CM-TUBERIA	1,35
ELU-291			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-291			Linear Static	SCU	0,54
ELU-291	Linear Add	No	Linear Static	VTSSC	0,
ELU-291			Linear Static	VTSCC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-291	Linear Add	No	Linear Static	VV	0,
ELU-291			Linear Static	VLSSC	0,
ELU-291			Linear Static	VLSC	0,
ELU-291			Linear Static	TU-DIL	0,525
ELU-291			Linear Static	TU-CON	0,
ELU-291			Linear Static	GRA-HEAT	0,
ELU-291			Linear Static	GRA-COOL	1,5
ELU-292			Linear Static	PP	1,35
ELU-292			Linear Static	CM-TUBERIA	1,35
ELU-292			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-292	Linear Add	No	Linear Static	SCU	0,54
ELU-292			Linear Static	VTSSC	0,
ELU-292			Linear Static	VTSC	0,45
ELU-292			Linear Static	VV	0,
ELU-292			Linear Static	VLSSC	0,
ELU-292			Linear Static	VLSC	0,
ELU-292			Linear Static	TU-DIL	0,
ELU-292			Linear Static	TU-CON	0,525
ELU-292			Linear Static	GRA-HEAT	0,
ELU-292			Linear Static	GRA-COOL	1,5
ELU-293	Linear Add	No	Linear Static	PP	1,35
ELU-293			Linear Static	CM-TUBERIA	1,35
ELU-293			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-293			Linear Static	SCU	0,54
ELU-293			Linear Static	VTSSC	0,
ELU-293			Linear Static	VTSC	0,45
ELU-293			Linear Static	VV	0,
ELU-293			Linear Static	VLSSC	0,
ELU-293			Linear Static	VLSC	0,
ELU-293			Linear Static	TU-DIL	1,5
ELU-293	Linear Add	No	Linear Static	TU-CON	0,
ELU-293			Linear Static	GRA-HEAT	1,125
ELU-293			Linear Static	GRA-COOL	0,
ELU-294			Linear Static	PP	1,35
ELU-294			Linear Static	CM-TUBERIA	1,35
ELU-294			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-294			Linear Static	SCU	0,54
ELU-294			Linear Static	VTSSC	0,
ELU-294			Linear Static	VTSC	0,45
ELU-294			Linear Static	VV	0,
ELU-294	Linear Add	No	Linear Static	VLSSC	0,
ELU-294			Linear Static	VLSC	0,
ELU-294			Linear Static	TU-DIL	0,
ELU-294			Linear Static	TU-CON	1,5
ELU-294			Linear Static	GRA-HEAT	1,125
ELU-294			Linear Static	GRA-COOL	0,
ELU-295			Linear Static	PP	1,35
ELU-295			Linear Static	CM-TUBERIA	1,35
ELU-295			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-295			Linear Static	SCU	0,54
ELU-295			Linear Static	VTSSC	0,
ELU-295			Linear Static	VTSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-295	Linear Add	No	Linear Static	VV	0,
ELU-295			Linear Static	VLSSC	0,
ELU-295			Linear Static	VLCSC	0,
ELU-295			Linear Static	TU-DIL	1,5
ELU-295			Linear Static	TU-CON	0,
ELU-295			Linear Static	GRA-HEAT	0,
ELU-295			Linear Static	GRA-COOL	1,125
ELU-296			Linear Static	PP	1,35
ELU-296			Linear Static	CM-TUBERIA	1,35
ELU-296			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-296	Linear Add	No	Linear Static	SCU	0,54
ELU-296			Linear Static	VTSSC	0,
ELU-296			Linear Static	VTSCC	0,45
ELU-296			Linear Static	VV	0,
ELU-296			Linear Static	VLSSC	0,
ELU-296			Linear Static	VLCSC	0,
ELU-296			Linear Static	TU-DIL	0,
ELU-296			Linear Static	TU-CON	1,5
ELU-296			Linear Static	GRA-HEAT	0,
ELU-296			Linear Static	GRA-COOL	1,125
ELU-297	Linear Add	No	Linear Static	PP	1,35
ELU-297			Linear Static	CM-TUBERIA	1,35
ELU-297			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-297			Linear Static	SCU	0,54
ELU-297			Linear Static	VTSSC	0,
ELU-297			Linear Static	VTSCC	0,45
ELU-297			Linear Static	VV	0,45
ELU-297			Linear Static	VLSSC	0,
ELU-297			Linear Static	VLCSC	0,
ELU-297			Linear Static	TU-DIL	0,525
ELU-297	Linear Add	No	Linear Static	TU-CON	0,
ELU-297			Linear Static	GRA-HEAT	1,5
ELU-297			Linear Static	GRA-COOL	0,
ELU-298			Linear Static	PP	1,35
ELU-298			Linear Static	CM-TUBERIA	1,35
ELU-298			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-298			Linear Static	SCU	0,54
ELU-298			Linear Static	VTSSC	0,
ELU-298			Linear Static	VTSCC	0,45
ELU-298			Linear Static	VV	0,45
ELU-298	Linear Add	No	Linear Static	VLSSC	0,
ELU-298			Linear Static	VLCSC	0,
ELU-298			Linear Static	TU-DIL	0,
ELU-298			Linear Static	TU-CON	0,525
ELU-298			Linear Static	GRA-HEAT	1,5
ELU-298			Linear Static	GRA-COOL	0,
ELU-299			Linear Static	PP	1,35
ELU-299			Linear Static	CM-TUBERIA	1,35
ELU-299			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-299			Linear Static	SCU	0,54
ELU-299	Linear Add	No	Linear Static	VTSSC	0,
ELU-299			Linear Static	VTSCC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-299	Linear Add	No	Linear Static	VV	0,45
ELU-299			Linear Static	VLSSC	0,
ELU-299			Linear Static	VLSC	0,
ELU-299			Linear Static	TU-DIL	0,525
ELU-299			Linear Static	TU-CON	0,
ELU-299			Linear Static	GRA-HEAT	0,
ELU-299			Linear Static	GRA-COOL	1,5
ELU-300			Linear Static	PP	1,35
ELU-300			Linear Static	CM-TUBERIA	1,35
ELU-300			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-300	Linear Add	No	Linear Static	SCU	0,54
ELU-300			Linear Static	VTSSC	0,
ELU-300			Linear Static	VTSC	0,45
ELU-300			Linear Static	VV	0,45
ELU-300			Linear Static	VLSSC	0,
ELU-300			Linear Static	VLSC	0,
ELU-300			Linear Static	TU-DIL	0,
ELU-300			Linear Static	TU-CON	0,525
ELU-300			Linear Static	GRA-HEAT	0,
ELU-300			Linear Static	GRA-COOL	1,5
ELU-301	Linear Add	No	Linear Static	PP	1,35
ELU-301			Linear Static	CM-TUBERIA	1,35
ELU-301			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-301			Linear Static	SCU	0,54
ELU-301			Linear Static	VTSSC	0,
ELU-301			Linear Static	VTSC	0,45
ELU-301			Linear Static	VV	0,45
ELU-301			Linear Static	VLSSC	0,
ELU-301			Linear Static	VLSC	0,
ELU-301			Linear Static	TU-DIL	1,5
ELU-301	Linear Add	No	Linear Static	TU-CON	0,
ELU-301			Linear Static	GRA-HEAT	1,125
ELU-301			Linear Static	GRA-COOL	0,
ELU-302			Linear Static	PP	1,35
ELU-302			Linear Static	CM-TUBERIA	1,35
ELU-302			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-302			Linear Static	SCU	0,54
ELU-302			Linear Static	VTSSC	0,
ELU-302			Linear Static	VTSC	0,45
ELU-302			Linear Static	VV	0,45
ELU-302	Linear Add	No	Linear Static	VLSSC	0,
ELU-302			Linear Static	VLSC	0,
ELU-302			Linear Static	TU-DIL	0,
ELU-302			Linear Static	TU-CON	1,5
ELU-302			Linear Static	GRA-HEAT	1,125
ELU-302			Linear Static	GRA-COOL	0,
ELU-303			Linear Static	PP	1,35
ELU-303			Linear Static	CM-TUBERIA	1,35
ELU-303			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-303			Linear Static	SCU	0,54
ELU-303	Linear Add	No	Linear Static	VTSSC	0,
ELU-303			Linear Static	VTSC	0,45

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-303	Linear Add	No	Linear Static	VV	0,45
ELU-303			Linear Static	VLSSC	0,
ELU-303			Linear Static	VLCSC	0,
ELU-303			Linear Static	TU-DIL	1,5
ELU-303			Linear Static	TU-CON	0,
ELU-303			Linear Static	GRA-HEAT	0,
ELU-303			Linear Static	GRA-COOL	1,125
ELU-304			Linear Static	PP	1,35
ELU-304			Linear Static	CM-TUBERIA	1,35
ELU-304	Linear Add	No	Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-304			Linear Static	SCU	0,54
ELU-304			Linear Static	VTSSC	0,
ELU-304			Linear Static	VTSCC	0,45
ELU-304			Linear Static	VV	0,45
ELU-304			Linear Static	VLSSC	0,
ELU-304			Linear Static	VLCSC	0,
ELU-304			Linear Static	TU-DIL	0,
ELU-304			Linear Static	TU-CON	1,5
ELU-304	Linear Add	No	Linear Static	GRA-HEAT	0,
ELU-304			Linear Static	GRA-COOL	1,125
ELU-305			Linear Static	PP	1,35
ELU-305			Linear Static	CM-TUBERIA	1,35
ELU-305			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-305			Linear Static	SCU	0,
ELU-305			Linear Static	VTSSC	0,45
ELU-305			Linear Static	VTSCC	0,
ELU-305			Linear Static	VV	0,
ELU-305	Linear Add	No	Linear Static	VLSSC	0,
ELU-305			Linear Static	VLCSC	0,
ELU-305			Linear Static	TU-DIL	0,525
ELU-305			Linear Static	TU-CON	0,
ELU-305			Linear Static	GRA-HEAT	1,5
ELU-305			Linear Static	GRA-COOL	0,
ELU-306			Linear Static	PP	1,35
ELU-306			Linear Static	CM-TUBERIA	1,35
ELU-306			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-306	Linear Add	No	Linear Static	SCU	0,
ELU-306			Linear Static	VTSSC	0,45
ELU-306			Linear Static	VTSCC	0,
ELU-306			Linear Static	VV	0,
ELU-306			Linear Static	VLSSC	0,
ELU-306			Linear Static	VLCSC	0,
ELU-306			Linear Static	TU-DIL	0,
ELU-306			Linear Static	TU-CON	0,525
ELU-306			Linear Static	GRA-HEAT	1,5
ELU-306	Linear Add	No	Linear Static	GRA-COOL	0,
ELU-307			Linear Static	PP	1,35
ELU-307			Linear Static	CM-TUBERIA	1,35
ELU-307			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-307			Linear Static	SCU	0,
ELU-307			Linear Static	VTSSC	0,45
ELU-307			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-307	Linear Add	No	Linear Static	VV	0,
ELU-307			Linear Static	VLSSC	0,
ELU-307			Linear Static	VLSCC	0,
ELU-307			Linear Static	TU-DIL	0,525
ELU-307			Linear Static	TU-CON	0,
ELU-307			Linear Static	GRA-HEAT	0,
ELU-307			Linear Static	GRA-COOL	1,5
ELU-308			Linear Static	PP	1,35
ELU-308			Linear Static	CM-TUBERIA	1,35
ELU-308			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-308	Linear Add	No	Linear Static	SCU	0,
ELU-308			Linear Static	VTSSC	0,45
ELU-308			Linear Static	VTSCC	0,
ELU-308			Linear Static	VV	0,
ELU-308			Linear Static	VLSSC	0,
ELU-308			Linear Static	VLSCC	0,
ELU-308			Linear Static	TU-DIL	0,
ELU-308			Linear Static	TU-CON	0,525
ELU-308			Linear Static	GRA-HEAT	0,
ELU-308			Linear Static	GRA-COOL	1,5
ELU-309	Linear Add	No	Linear Static	PP	1,35
ELU-309			Linear Static	CM-TUBERIA	1,35
ELU-309			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-309			Linear Static	SCU	0,
ELU-309			Linear Static	VTSSC	0,45
ELU-309			Linear Static	VTSCC	0,
ELU-309			Linear Static	VV	0,
ELU-309			Linear Static	VLSSC	0,
ELU-309			Linear Static	VLSCC	0,
ELU-309			Linear Static	TU-DIL	1,5
ELU-309	Linear Add	No	Linear Static	TU-CON	0,
ELU-309			Linear Static	GRA-HEAT	1,125
ELU-309			Linear Static	GRA-COOL	0,
ELU-310			Linear Static	PP	1,35
ELU-310			Linear Static	CM-TUBERIA	1,35
ELU-310			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-310			Linear Static	SCU	0,
ELU-310			Linear Static	VTSSC	0,45
ELU-310			Linear Static	VTSCC	0,
ELU-310			Linear Static	VV	0,
ELU-310	Linear Add	No	Linear Static	VLSSC	0,
ELU-310			Linear Static	VLSCC	0,
ELU-310			Linear Static	TU-DIL	0,
ELU-310			Linear Static	TU-CON	1,5
ELU-310			Linear Static	GRA-HEAT	1,125
ELU-310			Linear Static	GRA-COOL	0,
ELU-311			Linear Static	PP	1,35
ELU-311			Linear Static	CM-TUBERIA	1,35
ELU-311			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-311			Linear Static	SCU	0,
ELU-311			Linear Static	VTSSC	0,45
ELU-311			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-311	Linear Add	No	Linear Static	VV	0,
ELU-311			Linear Static	VLSSC	0,
ELU-311			Linear Static	VLCSC	0,
ELU-311			Linear Static	TU-DIL	1,5
ELU-311			Linear Static	TU-CON	0,
ELU-311			Linear Static	GRA-HEAT	0,
ELU-311			Linear Static	GRA-COOL	1,125
ELU-312			Linear Static	PP	1,35
ELU-312			Linear Static	CM-TUBERIA	1,35
ELU-312			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-312	Linear Add	No	Linear Static	SCU	0,
ELU-312			Linear Static	VTSSC	0,45
ELU-312			Linear Static	UTCSC	0,
ELU-312			Linear Static	VV	0,
ELU-312			Linear Static	VLSSC	0,
ELU-312			Linear Static	VLCSC	0,
ELU-312			Linear Static	TU-DIL	0,
ELU-312			Linear Static	TU-CON	1,5
ELU-312			Linear Static	GRA-HEAT	0,
ELU-312			Linear Static	GRA-COOL	1,125
ELU-313	Linear Add	No	Linear Static	PP	1,35
ELU-313			Linear Static	CM-TUBERIA	1,35
ELU-313			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-313			Linear Static	SCU	0,
ELU-313			Linear Static	VTSSC	0,45
ELU-313			Linear Static	UTCSC	0,
ELU-313			Linear Static	VV	0,45
ELU-313			Linear Static	VLSSC	0,
ELU-313			Linear Static	VLCSC	0,
ELU-313			Linear Static	TU-DIL	0,525
ELU-313	Linear Add	No	Linear Static	TU-CON	0,
ELU-313			Linear Static	GRA-HEAT	1,5
ELU-313			Linear Static	GRA-COOL	0,
ELU-314			Linear Static	PP	1,35
ELU-314			Linear Static	CM-TUBERIA	1,35
ELU-314			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-314			Linear Static	SCU	0,
ELU-314			Linear Static	VTSSC	0,45
ELU-314			Linear Static	UTCSC	0,
ELU-314			Linear Static	VV	0,45
ELU-314	Linear Add	No	Linear Static	VLSSC	0,
ELU-314			Linear Static	VLCSC	0,
ELU-314			Linear Static	TU-DIL	0,
ELU-314			Linear Static	TU-CON	0,525
ELU-314			Linear Static	GRA-HEAT	1,5
ELU-314			Linear Static	GRA-COOL	0,
ELU-315			Linear Static	PP	1,35
ELU-315			Linear Static	CM-TUBERIA	1,35
ELU-315			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-315			Linear Static	SCU	0,
ELU-315	Linear Add	No	Linear Static	VTSSC	0,45
ELU-315			Linear Static	UTCSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-315	Linear Add	No	Linear Static	VV	0,45
ELU-315			Linear Static	VLSSC	0,
ELU-315			Linear Static	VLSC	0,
ELU-315			Linear Static	TU-DIL	0,525
ELU-315			Linear Static	TU-CON	0,
ELU-315			Linear Static	GRA-HEAT	0,
ELU-315			Linear Static	GRA-COOL	1,5
ELU-316			Linear Static	PP	1,35
ELU-316			Linear Static	CM-TUBERIA	1,35
ELU-316			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-316	Linear Add	No	Linear Static	SCU	0,
ELU-316			Linear Static	VTSSC	0,45
ELU-316			Linear Static	VTSC	0,
ELU-316			Linear Static	VV	0,45
ELU-316			Linear Static	VLSSC	0,
ELU-316			Linear Static	VLSC	0,
ELU-316			Linear Static	TU-DIL	0,
ELU-316			Linear Static	TU-CON	0,525
ELU-316			Linear Static	GRA-HEAT	0,
ELU-316			Linear Static	GRA-COOL	1,5
ELU-317	Linear Add	No	Linear Static	PP	1,35
ELU-317			Linear Static	CM-TUBERIA	1,35
ELU-317			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-317			Linear Static	SCU	0,
ELU-317			Linear Static	VTSSC	0,45
ELU-317			Linear Static	VTSC	0,
ELU-317			Linear Static	VV	0,45
ELU-317			Linear Static	VLSSC	0,
ELU-317			Linear Static	VLSC	0,
ELU-317	Linear Add	No	Linear Static	TU-DIL	1,5
ELU-317			Linear Static	TU-CON	0,
ELU-317			Linear Static	GRA-HEAT	1,125
ELU-317			Linear Static	GRA-COOL	0,
ELU-318			Linear Static	PP	1,35
ELU-318			Linear Static	CM-TUBERIA	1,35
ELU-318			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-318			Linear Static	SCU	0,
ELU-318			Linear Static	VTSSC	0,45
ELU-318	Linear Add	No	Linear Static	VTSC	0,
ELU-318			Linear Static	VV	0,45
ELU-318			Linear Static	VLSSC	0,
ELU-318			Linear Static	VLSC	0,
ELU-318			Linear Static	TU-DIL	0,
ELU-318			Linear Static	TU-CON	1,5
ELU-318			Linear Static	GRA-HEAT	1,125
ELU-318			Linear Static	GRA-COOL	0,
ELU-319			Linear Static	PP	1,35
ELU-319	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-319			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-319			Linear Static	SCU	0,
ELU-319			Linear Static	VTSSC	0,45
ELU-319			Linear Static	VTSC	0,
ELU-319			Linear Static	VV	0,45
ELU-319			Linear Static	VLSSC	0,
ELU-319			Linear Static	VLSC	0,
ELU-319			Linear Static	TU-DIL	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-319	Linear Add	No	Linear Static	VV	0,45
ELU-319			Linear Static	VLSSC	0,
ELU-319			Linear Static	VLCSC	0,
ELU-319			Linear Static	TU-DIL	1,5
ELU-319			Linear Static	TU-CON	0,
ELU-319			Linear Static	GRA-HEAT	0,
ELU-319			Linear Static	GRA-COOL	1,125
ELU-320			Linear Static	PP	1,35
ELU-320			Linear Static	CM-TUBERIA	1,35
ELU-320			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-320	Linear Add	No	Linear Static	SCU	0,
ELU-320			Linear Static	VTSSC	0,45
ELU-320			Linear Static	VTSCC	0,
ELU-320			Linear Static	VV	0,45
ELU-320			Linear Static	VLSSC	0,
ELU-320			Linear Static	VLCSC	0,
ELU-320			Linear Static	TU-DIL	0,
ELU-320			Linear Static	TU-CON	1,5
ELU-320			Linear Static	GRA-HEAT	0,
ELU-320			Linear Static	GRA-COOL	1,125
ELU-321	Linear Add	No	Linear Static	PP	1,35
ELU-321			Linear Static	CM-TUBERIA	1,35
ELU-321			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-321			Linear Static	SCU	0,
ELU-321			Linear Static	VTSSC	0,
ELU-321			Linear Static	VTSCC	0,
ELU-321			Linear Static	VV	0,
ELU-321			Linear Static	VLSSC	0,45
ELU-321			Linear Static	VLCSC	0,
ELU-321			Linear Static	TU-DIL	0,525
ELU-321	Linear Add	No	Linear Static	TU-CON	0,
ELU-321			Linear Static	GRA-HEAT	1,5
ELU-321			Linear Static	GRA-COOL	0,
ELU-322			Linear Static	PP	1,35
ELU-322			Linear Static	CM-TUBERIA	1,35
ELU-322			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-322			Linear Static	SCU	0,
ELU-322			Linear Static	VTSSC	0,
ELU-322			Linear Static	VTSCC	0,
ELU-322			Linear Static	VV	0,
ELU-322	Linear Add	No	Linear Static	VLSSC	0,45
ELU-322			Linear Static	VLCSC	0,
ELU-322			Linear Static	TU-DIL	0,
ELU-322			Linear Static	TU-CON	0,525
ELU-322			Linear Static	GRA-HEAT	1,5
ELU-322			Linear Static	GRA-COOL	0,
ELU-323			Linear Static	PP	1,35
ELU-323			Linear Static	CM-TUBERIA	1,35
ELU-323			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-323			Linear Static	SCU	0,
ELU-323	Linear Add	No	Linear Static	VTSSC	0,
ELU-323			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-323	Linear Add	No	Linear Static	VV	0,
ELU-323			Linear Static	VLSSC	0,45
ELU-323			Linear Static	VLSC	0,
ELU-323			Linear Static	TU-DIL	0,525
ELU-323			Linear Static	TU-CON	0,
ELU-323			Linear Static	GRA-HEAT	0,
ELU-323			Linear Static	GRA-COOL	1,5
ELU-324			Linear Static	PP	1,35
ELU-324			Linear Static	CM-TUBERIA	1,35
ELU-324			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-324	Linear Add	No	Linear Static	SCU	0,
ELU-324			Linear Static	VTSSC	0,
ELU-324			Linear Static	VTSC	0,
ELU-324			Linear Static	VV	0,
ELU-324			Linear Static	VLSSC	0,45
ELU-324			Linear Static	VLSC	0,
ELU-324			Linear Static	TU-DIL	0,
ELU-324			Linear Static	TU-CON	0,525
ELU-324			Linear Static	GRA-HEAT	0,
ELU-324			Linear Static	GRA-COOL	1,5
ELU-325	Linear Add	No	Linear Static	PP	1,35
ELU-325			Linear Static	CM-TUBERIA	1,35
ELU-325			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-325			Linear Static	SCU	0,
ELU-325			Linear Static	VTSSC	0,
ELU-325			Linear Static	VTSC	0,
ELU-325			Linear Static	VV	0,
ELU-325			Linear Static	VLSSC	0,45
ELU-325			Linear Static	VLSC	0,
ELU-325	Linear Add	No	Linear Static	TU-DIL	1,5
ELU-325			Linear Static	TU-CON	0,
ELU-325			Linear Static	GRA-HEAT	1,125
ELU-325			Linear Static	GRA-COOL	0,
ELU-326			Linear Static	PP	1,35
ELU-326			Linear Static	CM-TUBERIA	1,35
ELU-326			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-326			Linear Static	SCU	0,
ELU-326			Linear Static	VTSSC	0,
ELU-326	Linear Add	No	Linear Static	VTSC	0,
ELU-326			Linear Static	VV	0,
ELU-326			Linear Static	VLSSC	0,45
ELU-326			Linear Static	VLSC	0,
ELU-326			Linear Static	TU-DIL	0,
ELU-326			Linear Static	TU-CON	1,5
ELU-326			Linear Static	GRA-HEAT	1,125
ELU-326			Linear Static	GRA-COOL	0,
ELU-327			Linear Static	PP	1,35
ELU-327	Linear Add	No	Linear Static	CM-TUBERIA	1,35
ELU-327			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-327			Linear Static	SCU	0,
ELU-327	Linear Add	No	Linear Static	VTSSC	0,
ELU-327			Linear Static	VTSC	0,
ELU-327			Linear Static	VLSC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-327	Linear Add	No	Linear Static	VV	0,
ELU-327			Linear Static	VLSSC	0,45
ELU-327			Linear Static	VLCSC	0,
ELU-327			Linear Static	TU-DIL	1,5
ELU-327			Linear Static	TU-CON	0,
ELU-327			Linear Static	GRA-HEAT	0,
ELU-327			Linear Static	GRA-COOL	1,125
ELU-328			Linear Static	PP	1,35
ELU-328			Linear Static	CM-TUBERIA	1,35
ELU-328			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-328	Linear Add	No	Linear Static	SCU	0,
ELU-328			Linear Static	VTSSC	0,
ELU-328			Linear Static	VTSCC	0,
ELU-328			Linear Static	VV	0,
ELU-328			Linear Static	VLSSC	0,45
ELU-328			Linear Static	VLCSC	0,
ELU-328			Linear Static	TU-DIL	0,
ELU-328			Linear Static	TU-CON	1,5
ELU-328			Linear Static	GRA-HEAT	0,
ELU-328			Linear Static	GRA-COOL	1,125
ELU-329	Linear Add	No	Linear Static	PP	1,35
ELU-329			Linear Static	CM-TUBERIA	1,35
ELU-329			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-329			Linear Static	SCU	0,54
ELU-329			Linear Static	VTSSC	0,
ELU-329			Linear Static	VTSCC	0,
ELU-329			Linear Static	VV	0,
ELU-329			Linear Static	VLSSC	0,
ELU-329			Linear Static	VLCSC	0,45
ELU-329			Linear Static	TU-DIL	0,525
ELU-329	Linear Add	No	Linear Static	TU-CON	0,
ELU-329			Linear Static	GRA-HEAT	1,5
ELU-329			Linear Static	GRA-COOL	0,
ELU-330			Linear Static	PP	1,35
ELU-330			Linear Static	CM-TUBERIA	1,35
ELU-330			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-330			Linear Static	SCU	0,54
ELU-330			Linear Static	VTSSC	0,
ELU-330			Linear Static	VTSCC	0,
ELU-330			Linear Static	VV	0,
ELU-330	Linear Add	No	Linear Static	VLSSC	0,
ELU-330			Linear Static	VLCSC	0,45
ELU-330			Linear Static	TU-DIL	0,
ELU-330			Linear Static	TU-CON	0,525
ELU-330			Linear Static	GRA-HEAT	1,5
ELU-330			Linear Static	GRA-COOL	0,
ELU-331			Linear Static	PP	1,35
ELU-331			Linear Static	CM-TUBERIA	1,35
ELU-331			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-331			Linear Static	SCU	0,54
ELU-331	Linear Add	No	Linear Static	VTSSC	0,
ELU-331			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-331	Linear Add	No	Linear Static	VV	0,
ELU-331			Linear Static	VLSSC	0,
ELU-331			Linear Static	VLSCC	0,45
ELU-331			Linear Static	TU-DIL	0,525
ELU-331			Linear Static	TU-CON	0,
ELU-331			Linear Static	GRA-HEAT	0,
ELU-331			Linear Static	GRA-COOL	1,5
ELU-332			Linear Static	PP	1,35
ELU-332			Linear Static	CM-TUBERIA	1,35
ELU-332			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-332	Linear Add	No	Linear Static	SCU	0,54
ELU-332			Linear Static	VTSSC	0,
ELU-332			Linear Static	VTSCC	0,
ELU-332			Linear Static	VV	0,
ELU-332			Linear Static	VLSSC	0,
ELU-332			Linear Static	VLSCC	0,45
ELU-332			Linear Static	TU-DIL	0,
ELU-332			Linear Static	TU-CON	0,525
ELU-332			Linear Static	GRA-HEAT	0,
ELU-332			Linear Static	GRA-COOL	1,5
ELU-333	Linear Add	No	Linear Static	PP	1,35
ELU-333			Linear Static	CM-TUBERIA	1,35
ELU-333			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-333			Linear Static	SCU	0,54
ELU-333			Linear Static	VTSSC	0,
ELU-333			Linear Static	VTSCC	0,
ELU-333			Linear Static	VV	0,
ELU-333			Linear Static	VLSSC	0,
ELU-333			Linear Static	VLSCC	0,45
ELU-333			Linear Static	TU-DIL	1,5
ELU-333	Linear Add	No	Linear Static	TU-CON	0,
ELU-333			Linear Static	GRA-HEAT	1,125
ELU-333			Linear Static	GRA-COOL	0,
ELU-334			Linear Static	PP	1,35
ELU-334			Linear Static	CM-TUBERIA	1,35
ELU-334			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-334			Linear Static	SCU	0,54
ELU-334			Linear Static	VTSSC	0,
ELU-334			Linear Static	VTSCC	0,
ELU-334			Linear Static	VV	0,
ELU-334	Linear Add	No	Linear Static	VLSSC	0,
ELU-334			Linear Static	VLSCC	0,45
ELU-334			Linear Static	TU-DIL	0,
ELU-334			Linear Static	TU-CON	1,5
ELU-334			Linear Static	GRA-HEAT	1,125
ELU-334			Linear Static	GRA-COOL	0,
ELU-335			Linear Static	PP	1,35
ELU-335			Linear Static	CM-TUBERIA	1,35
ELU-335			Linear Static	CM-TRAMEX+REJILLA	1,35
ELU-335			Linear Static	SCU	0,54
ELU-335	Linear Add	No	Linear Static	VTSSC	0,
ELU-335			Linear Static	VTSCC	0,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-335	Linear Add	No	Linear Static	VV	0,
ELU-335			Linear Static	VLSSC	0,
ELU-335			Linear Static	VLCSC	0,45
ELU-335			Linear Static	TU-DIL	1,5
ELU-335			Linear Static	TU-CON	0,
ELU-335			Linear Static	GRA-HEAT	0,
ELU-335			Linear Static	GRA-COOL	1,125
ELU-336			Linear Static	PP	1,35
ELU-336			Linear Static	CM-TUBERIA	1,35
ELU-336			Linear Static	CM- TRAMEX+REJILLA	1,35
ELU-336			Linear Static	SCU	0,54
ELU-336			Linear Static	VTSSC	0,
ELU-336			Linear Static	VTSCC	0,
ELU-336			Linear Static	VV	0,
ELU-336			Linear Static	VLSSC	0,
ELU-336			Linear Static	VLCSC	0,45
ELU-336	Envelope	No	Linear Static	TU-DIL	0,
ELU-336			Linear Static	TU-CON	1,5
ELU-336			Linear Static	GRA-HEAT	0,
ELU-336			Linear Static	GRA-COOL	1,125
ENV-ELS-CHK			Response Combo	ELS-CHK-1	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-2	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-3	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-4	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-5	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-6	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-7	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-8	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-9	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-10	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-11	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-12	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-13	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-14	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-15	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-16	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-17	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-18	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-19	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-20	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-21	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-22	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-23	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-24	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-25	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-26	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-27	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-28	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-29	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-30	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-31	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-32	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-33	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-34	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-CHK			Response Combo	ELS-CHK-35	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-36	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-37	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-38	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-39	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-40	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-41	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-42	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-43	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-44	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-45	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-46	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-47	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-48	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-49	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-50	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-51	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-52	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-53	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-54	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-55	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-56	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-57	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-58	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-59	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-60	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-61	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-62	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-63	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-64	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-65	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-66	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-67	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-68	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-69	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-70	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-71	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-72	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-73	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-74	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-75	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-76	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-77	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-78	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-79	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-80	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-81	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-82	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-83	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-84	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-85	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-86	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-87	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-88	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-89	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-CHK			Response Combo	ELS-CHK-90	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-91	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-92	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-93	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-94	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-95	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-96	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-97	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-98	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-99	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-100	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-101	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-102	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-103	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-104	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-105	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-106	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-107	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-108	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-109	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-110	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-111	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-112	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-113	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-114	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-115	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-116	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-117	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-118	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-119	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-120	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-121	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-122	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-123	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-124	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-125	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-126	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-127	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-128	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-129	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-130	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-131	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-132	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-133	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-134	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-135	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-136	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-137	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-138	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-139	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-140	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-141	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-142	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-143	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-144	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-CHK	Envelope	No	Response Combo	ELS-CHK-145	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-146	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-147	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-148	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-149	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-150	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-151	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-152	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-153	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-154	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-155	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-156	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-157	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-158	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-159	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-160	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-161	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-162	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-163	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-164	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-165	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-166	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-167	1,
ENV-ELS-CHK			Response Combo	ELS-CHK-168	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-1	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-2	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-3	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-4	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-5	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-6	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-7	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-8	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-9	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-10	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-11	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-12	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-13	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-14	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-15	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-16	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-17	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-18	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-19	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-20	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-21	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-22	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-23	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-24	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-25	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-26	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-27	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-28	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-29	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-30	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-31	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS-FREQ	Envelope	No	Response Combo	ELS-FREQ-32	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-33	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-34	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-35	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-36	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-37	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-38	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-39	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-40	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-41	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-42	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-43	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-44	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-45	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-46	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-47	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-48	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-49	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-50	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-51	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-52	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-53	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-54	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-55	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-56	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-57	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-58	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-59	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-60	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-61	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-62	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-63	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-64	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-65	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-66	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-67	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-68	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-69	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-70	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-71	1,
ENV-ELS-FREQ			Response Combo	ELS-FREQ-72	1,
ENV-ELS-CUASI	Envelope	No	Response Combo	ELS-CUASI-1	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-2	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-3	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-4	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-5	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-6	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-7	1,
ENV-ELS-CUASI			Response Combo	ELS-CUASI-8	1,
ENV-ELU	Envelope	No	Response Combo	ELU-1	1,
ENV-ELU			Response Combo	ELU-2	1,
ENV-ELU			Response Combo	ELU-3	1,
ENV-ELU			Response Combo	ELU-4	1,
ENV-ELU			Response Combo	ELU-5	1,
ENV-ELU			Response Combo	ELU-6	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-7	1,
ENV-ELU			Response Combo	ELU-8	1,
ENV-ELU			Response Combo	ELU-9	1,
ENV-ELU			Response Combo	ELU-10	1,
ENV-ELU			Response Combo	ELU-11	1,
ENV-ELU			Response Combo	ELU-12	1,
ENV-ELU			Response Combo	ELU-13	1,
ENV-ELU			Response Combo	ELU-14	1,
ENV-ELU			Response Combo	ELU-15	1,
ENV-ELU			Response Combo	ELU-16	1,
ENV-ELU			Response Combo	ELU-17	1,
ENV-ELU			Response Combo	ELU-18	1,
ENV-ELU			Response Combo	ELU-19	1,
ENV-ELU			Response Combo	ELU-20	1,
ENV-ELU			Response Combo	ELU-21	1,
ENV-ELU			Response Combo	ELU-22	1,
ENV-ELU			Response Combo	ELU-23	1,
ENV-ELU			Response Combo	ELU-24	1,
ENV-ELU			Response Combo	ELU-25	1,
ENV-ELU			Response Combo	ELU-26	1,
ENV-ELU			Response Combo	ELU-27	1,
ENV-ELU			Response Combo	ELU-28	1,
ENV-ELU			Response Combo	ELU-29	1,
ENV-ELU			Response Combo	ELU-30	1,
ENV-ELU			Response Combo	ELU-31	1,
ENV-ELU			Response Combo	ELU-32	1,
ENV-ELU			Response Combo	ELU-33	1,
ENV-ELU			Response Combo	ELU-34	1,
ENV-ELU			Response Combo	ELU-35	1,
ENV-ELU			Response Combo	ELU-36	1,
ENV-ELU			Response Combo	ELU-37	1,
ENV-ELU			Response Combo	ELU-38	1,
ENV-ELU			Response Combo	ELU-39	1,
ENV-ELU			Response Combo	ELU-40	1,
ENV-ELU			Response Combo	ELU-41	1,
ENV-ELU			Response Combo	ELU-42	1,
ENV-ELU			Response Combo	ELU-43	1,
ENV-ELU			Response Combo	ELU-44	1,
ENV-ELU			Response Combo	ELU-45	1,
ENV-ELU			Response Combo	ELU-46	1,
ENV-ELU			Response Combo	ELU-47	1,
ENV-ELU			Response Combo	ELU-48	1,
ENV-ELU			Response Combo	ELU-49	1,
ENV-ELU			Response Combo	ELU-50	1,
ENV-ELU			Response Combo	ELU-51	1,
ENV-ELU			Response Combo	ELU-52	1,
ENV-ELU			Response Combo	ELU-53	1,
ENV-ELU			Response Combo	ELU-54	1,
ENV-ELU			Response Combo	ELU-55	1,
ENV-ELU			Response Combo	ELU-56	1,
ENV-ELU			Response Combo	ELU-57	1,
ENV-ELU			Response Combo	ELU-58	1,
ENV-ELU			Response Combo	ELU-59	1,
ENV-ELU			Response Combo	ELU-60	1,
ENV-ELU			Response Combo	ELU-61	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-62	1,
ENV-ELU			Response Combo	ELU-63	1,
ENV-ELU			Response Combo	ELU-64	1,
ENV-ELU			Response Combo	ELU-65	1,
ENV-ELU			Response Combo	ELU-66	1,
ENV-ELU			Response Combo	ELU-67	1,
ENV-ELU			Response Combo	ELU-68	1,
ENV-ELU			Response Combo	ELU-69	1,
ENV-ELU			Response Combo	ELU-70	1,
ENV-ELU			Response Combo	ELU-71	1,
ENV-ELU			Response Combo	ELU-72	1,
ENV-ELU			Response Combo	ELU-73	1,
ENV-ELU			Response Combo	ELU-74	1,
ENV-ELU			Response Combo	ELU-75	1,
ENV-ELU			Response Combo	ELU-76	1,
ENV-ELU			Response Combo	ELU-77	1,
ENV-ELU			Response Combo	ELU-78	1,
ENV-ELU			Response Combo	ELU-79	1,
ENV-ELU			Response Combo	ELU-80	1,
ENV-ELU			Response Combo	ELU-81	1,
ENV-ELU			Response Combo	ELU-82	1,
ENV-ELU			Response Combo	ELU-83	1,
ENV-ELU			Response Combo	ELU-84	1,
ENV-ELU			Response Combo	ELU-85	1,
ENV-ELU			Response Combo	ELU-86	1,
ENV-ELU			Response Combo	ELU-87	1,
ENV-ELU			Response Combo	ELU-88	1,
ENV-ELU			Response Combo	ELU-89	1,
ENV-ELU			Response Combo	ELU-90	1,
ENV-ELU			Response Combo	ELU-91	1,
ENV-ELU			Response Combo	ELU-92	1,
ENV-ELU			Response Combo	ELU-93	1,
ENV-ELU			Response Combo	ELU-94	1,
ENV-ELU			Response Combo	ELU-95	1,
ENV-ELU			Response Combo	ELU-96	1,
ENV-ELU			Response Combo	ELU-97	1,
ENV-ELU			Response Combo	ELU-98	1,
ENV-ELU			Response Combo	ELU-99	1,
ENV-ELU			Response Combo	ELU-100	1,
ENV-ELU			Response Combo	ELU-101	1,
ENV-ELU			Response Combo	ELU-102	1,
ENV-ELU			Response Combo	ELU-103	1,
ENV-ELU			Response Combo	ELU-104	1,
ENV-ELU			Response Combo	ELU-105	1,
ENV-ELU			Response Combo	ELU-106	1,
ENV-ELU			Response Combo	ELU-107	1,
ENV-ELU			Response Combo	ELU-108	1,
ENV-ELU			Response Combo	ELU-109	1,
ENV-ELU			Response Combo	ELU-110	1,
ENV-ELU			Response Combo	ELU-111	1,
ENV-ELU			Response Combo	ELU-112	1,
ENV-ELU			Response Combo	ELU-113	1,
ENV-ELU			Response Combo	ELU-114	1,
ENV-ELU			Response Combo	ELU-115	1,
ENV-ELU			Response Combo	ELU-116	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-117	1,
ENV-ELU			Response Combo	ELU-118	1,
ENV-ELU			Response Combo	ELU-119	1,
ENV-ELU			Response Combo	ELU-120	1,
ENV-ELU			Response Combo	ELU-121	1,
ENV-ELU			Response Combo	ELU-122	1,
ENV-ELU			Response Combo	ELU-123	1,
ENV-ELU			Response Combo	ELU-124	1,
ENV-ELU			Response Combo	ELU-125	1,
ENV-ELU			Response Combo	ELU-126	1,
ENV-ELU			Response Combo	ELU-127	1,
ENV-ELU			Response Combo	ELU-128	1,
ENV-ELU			Response Combo	ELU-129	1,
ENV-ELU			Response Combo	ELU-130	1,
ENV-ELU			Response Combo	ELU-131	1,
ENV-ELU			Response Combo	ELU-132	1,
ENV-ELU			Response Combo	ELU-133	1,
ENV-ELU			Response Combo	ELU-134	1,
ENV-ELU			Response Combo	ELU-135	1,
ENV-ELU			Response Combo	ELU-136	1,
ENV-ELU			Response Combo	ELU-137	1,
ENV-ELU			Response Combo	ELU-138	1,
ENV-ELU			Response Combo	ELU-139	1,
ENV-ELU			Response Combo	ELU-140	1,
ENV-ELU			Response Combo	ELU-141	1,
ENV-ELU			Response Combo	ELU-142	1,
ENV-ELU			Response Combo	ELU-143	1,
ENV-ELU			Response Combo	ELU-144	1,
ENV-ELU			Response Combo	ELU-145	1,
ENV-ELU			Response Combo	ELU-146	1,
ENV-ELU			Response Combo	ELU-147	1,
ENV-ELU			Response Combo	ELU-148	1,
ENV-ELU			Response Combo	ELU-149	1,
ENV-ELU			Response Combo	ELU-150	1,
ENV-ELU			Response Combo	ELU-151	1,
ENV-ELU			Response Combo	ELU-152	1,
ENV-ELU			Response Combo	ELU-153	1,
ENV-ELU			Response Combo	ELU-154	1,
ENV-ELU			Response Combo	ELU-155	1,
ENV-ELU			Response Combo	ELU-156	1,
ENV-ELU			Response Combo	ELU-157	1,
ENV-ELU			Response Combo	ELU-158	1,
ENV-ELU			Response Combo	ELU-159	1,
ENV-ELU			Response Combo	ELU-160	1,
ENV-ELU			Response Combo	ELU-161	1,
ENV-ELU			Response Combo	ELU-162	1,
ENV-ELU			Response Combo	ELU-163	1,
ENV-ELU			Response Combo	ELU-164	1,
ENV-ELU			Response Combo	ELU-165	1,
ENV-ELU			Response Combo	ELU-166	1,
ENV-ELU			Response Combo	ELU-167	1,
ENV-ELU			Response Combo	ELU-168	1,
ENV-ELU			Response Combo	ELU-169	1,
ENV-ELU			Response Combo	ELU-170	1,
ENV-ELU			Response Combo	ELU-171	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-172	1,
ENV-ELU			Response Combo	ELU-173	1,
ENV-ELU			Response Combo	ELU-174	1,
ENV-ELU			Response Combo	ELU-175	1,
ENV-ELU			Response Combo	ELU-176	1,
ENV-ELU			Response Combo	ELU-177	1,
ENV-ELU			Response Combo	ELU-178	1,
ENV-ELU			Response Combo	ELU-179	1,
ENV-ELU			Response Combo	ELU-180	1,
ENV-ELU			Response Combo	ELU-181	1,
ENV-ELU			Response Combo	ELU-182	1,
ENV-ELU			Response Combo	ELU-183	1,
ENV-ELU			Response Combo	ELU-184	1,
ENV-ELU			Response Combo	ELU-185	1,
ENV-ELU			Response Combo	ELU-186	1,
ENV-ELU			Response Combo	ELU-187	1,
ENV-ELU			Response Combo	ELU-188	1,
ENV-ELU			Response Combo	ELU-189	1,
ENV-ELU			Response Combo	ELU-190	1,
ENV-ELU			Response Combo	ELU-191	1,
ENV-ELU			Response Combo	ELU-192	1,
ENV-ELU			Response Combo	ELU-193	1,
ENV-ELU			Response Combo	ELU-194	1,
ENV-ELU			Response Combo	ELU-195	1,
ENV-ELU			Response Combo	ELU-196	1,
ENV-ELU			Response Combo	ELU-197	1,
ENV-ELU			Response Combo	ELU-198	1,
ENV-ELU			Response Combo	ELU-199	1,
ENV-ELU			Response Combo	ELU-200	1,
ENV-ELU			Response Combo	ELU-201	1,
ENV-ELU			Response Combo	ELU-202	1,
ENV-ELU			Response Combo	ELU-203	1,
ENV-ELU			Response Combo	ELU-204	1,
ENV-ELU			Response Combo	ELU-205	1,
ENV-ELU			Response Combo	ELU-206	1,
ENV-ELU			Response Combo	ELU-207	1,
ENV-ELU			Response Combo	ELU-208	1,
ENV-ELU			Response Combo	ELU-209	1,
ENV-ELU			Response Combo	ELU-210	1,
ENV-ELU			Response Combo	ELU-211	1,
ENV-ELU			Response Combo	ELU-212	1,
ENV-ELU			Response Combo	ELU-213	1,
ENV-ELU			Response Combo	ELU-214	1,
ENV-ELU			Response Combo	ELU-215	1,
ENV-ELU			Response Combo	ELU-216	1,
ENV-ELU			Response Combo	ELU-217	1,
ENV-ELU			Response Combo	ELU-218	1,
ENV-ELU			Response Combo	ELU-219	1,
ENV-ELU			Response Combo	ELU-220	1,
ENV-ELU			Response Combo	ELU-221	1,
ENV-ELU			Response Combo	ELU-222	1,
ENV-ELU			Response Combo	ELU-223	1,
ENV-ELU			Response Combo	ELU-224	1,
ENV-ELU			Response Combo	ELU-225	1,
ENV-ELU			Response Combo	ELU-226	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-227	1,
ENV-ELU			Response Combo	ELU-228	1,
ENV-ELU			Response Combo	ELU-229	1,
ENV-ELU			Response Combo	ELU-230	1,
ENV-ELU			Response Combo	ELU-231	1,
ENV-ELU			Response Combo	ELU-232	1,
ENV-ELU			Response Combo	ELU-233	1,
ENV-ELU			Response Combo	ELU-234	1,
ENV-ELU			Response Combo	ELU-235	1,
ENV-ELU			Response Combo	ELU-236	1,
ENV-ELU			Response Combo	ELU-237	1,
ENV-ELU			Response Combo	ELU-238	1,
ENV-ELU			Response Combo	ELU-239	1,
ENV-ELU			Response Combo	ELU-240	1,
ENV-ELU			Response Combo	ELU-241	1,
ENV-ELU			Response Combo	ELU-242	1,
ENV-ELU			Response Combo	ELU-243	1,
ENV-ELU			Response Combo	ELU-244	1,
ENV-ELU			Response Combo	ELU-245	1,
ENV-ELU			Response Combo	ELU-246	1,
ENV-ELU			Response Combo	ELU-247	1,
ENV-ELU			Response Combo	ELU-248	1,
ENV-ELU			Response Combo	ELU-249	1,
ENV-ELU			Response Combo	ELU-250	1,
ENV-ELU			Response Combo	ELU-251	1,
ENV-ELU			Response Combo	ELU-252	1,
ENV-ELU			Response Combo	ELU-253	1,
ENV-ELU			Response Combo	ELU-254	1,
ENV-ELU			Response Combo	ELU-255	1,
ENV-ELU			Response Combo	ELU-256	1,
ENV-ELU			Response Combo	ELU-257	1,
ENV-ELU			Response Combo	ELU-258	1,
ENV-ELU			Response Combo	ELU-259	1,
ENV-ELU			Response Combo	ELU-260	1,
ENV-ELU			Response Combo	ELU-261	1,
ENV-ELU			Response Combo	ELU-262	1,
ENV-ELU			Response Combo	ELU-263	1,
ENV-ELU			Response Combo	ELU-264	1,
ENV-ELU			Response Combo	ELU-265	1,
ENV-ELU			Response Combo	ELU-266	1,
ENV-ELU			Response Combo	ELU-267	1,
ENV-ELU			Response Combo	ELU-268	1,
ENV-ELU			Response Combo	ELU-269	1,
ENV-ELU			Response Combo	ELU-270	1,
ENV-ELU			Response Combo	ELU-271	1,
ENV-ELU			Response Combo	ELU-272	1,
ENV-ELU			Response Combo	ELU-273	1,
ENV-ELU			Response Combo	ELU-274	1,
ENV-ELU			Response Combo	ELU-275	1,
ENV-ELU			Response Combo	ELU-276	1,
ENV-ELU			Response Combo	ELU-277	1,
ENV-ELU			Response Combo	ELU-278	1,
ENV-ELU			Response Combo	ELU-279	1,
ENV-ELU			Response Combo	ELU-280	1,
ENV-ELU			Response Combo	ELU-281	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-282	1,
ENV-ELU			Response Combo	ELU-283	1,
ENV-ELU			Response Combo	ELU-284	1,
ENV-ELU			Response Combo	ELU-285	1,
ENV-ELU			Response Combo	ELU-286	1,
ENV-ELU			Response Combo	ELU-287	1,
ENV-ELU			Response Combo	ELU-288	1,
ENV-ELU			Response Combo	ELU-289	1,
ENV-ELU			Response Combo	ELU-290	1,
ENV-ELU			Response Combo	ELU-291	1,
ENV-ELU			Response Combo	ELU-292	1,
ENV-ELU			Response Combo	ELU-293	1,
ENV-ELU			Response Combo	ELU-294	1,
ENV-ELU			Response Combo	ELU-295	1,
ENV-ELU			Response Combo	ELU-296	1,
ENV-ELU			Response Combo	ELU-297	1,
ENV-ELU			Response Combo	ELU-298	1,
ENV-ELU			Response Combo	ELU-299	1,
ENV-ELU			Response Combo	ELU-300	1,
ENV-ELU			Response Combo	ELU-301	1,
ENV-ELU			Response Combo	ELU-302	1,
ENV-ELU			Response Combo	ELU-303	1,
ENV-ELU			Response Combo	ELU-304	1,
ENV-ELU			Response Combo	ELU-305	1,
ENV-ELU			Response Combo	ELU-306	1,
ENV-ELU			Response Combo	ELU-307	1,
ENV-ELU			Response Combo	ELU-308	1,
ENV-ELU			Response Combo	ELU-309	1,
ENV-ELU			Response Combo	ELU-310	1,
ENV-ELU			Response Combo	ELU-311	1,
ENV-ELU			Response Combo	ELU-312	1,
ENV-ELU			Response Combo	ELU-313	1,
ENV-ELU			Response Combo	ELU-314	1,
ENV-ELU			Response Combo	ELU-315	1,
ENV-ELU			Response Combo	ELU-316	1,
ENV-ELU			Response Combo	ELU-317	1,
ENV-ELU			Response Combo	ELU-318	1,
ENV-ELU			Response Combo	ELU-319	1,
ENV-ELU			Response Combo	ELU-320	1,
ENV-ELU			Response Combo	ELU-321	1,
ENV-ELU			Response Combo	ELU-322	1,
ENV-ELU			Response Combo	ELU-323	1,
ENV-ELU			Response Combo	ELU-324	1,
ENV-ELU			Response Combo	ELU-325	1,
ENV-ELU			Response Combo	ELU-326	1,
ENV-ELU			Response Combo	ELU-327	1,
ENV-ELU			Response Combo	ELU-328	1,
ENV-ELU			Response Combo	ELU-329	1,
ENV-ELU			Response Combo	ELU-330	1,
ENV-ELU			Response Combo	ELU-331	1,
ENV-ELU			Response Combo	ELU-332	1,
ENV-ELU			Response Combo	ELU-333	1,
ENV-ELU			Response Combo	ELU-334	1,
ENV-ELU			Response Combo	ELU-335	1,
ENV-ELU			Response Combo	ELU-336	1,

Table: Joint Coordinates

Table: Joint Coordinates						
Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
1	GLOBAL	Cartesian	0,	0,	0,	No
2	GLOBAL	Cartesian	1,15	0,	0,	No
3	GLOBAL	Cartesian	2,3	0,	0,	No
4	GLOBAL	Cartesian	3,45	0,	0,	No
5	GLOBAL	Cartesian	4,6	0,	0,	No
6	GLOBAL	Cartesian	5,75	0,	0,	No
7	GLOBAL	Cartesian	6,9	0,	0,	No
8	GLOBAL	Cartesian	8,05	0,	0,	No
9	GLOBAL	Cartesian	9,2	0,	0,	No
10	GLOBAL	Cartesian	10,35	0,	0,	No
11	GLOBAL	Cartesian	11,5	0,	0,	Yes
12	GLOBAL	Cartesian	2,3	0,	-0,674	No
13	GLOBAL	Cartesian	2,3	1,05	-0,674	No
14	GLOBAL	Cartesian	8,05	1,05	-0,674	No
15	GLOBAL	Cartesian	8,05	0,	-0,674	No
16	GLOBAL	Cartesian	0,	0,	1,1072	No
17	GLOBAL	Cartesian	1,15	0,	1,1072	No
18	GLOBAL	Cartesian	2,3	0,	1,1072	No
19	GLOBAL	Cartesian	3,45	0,	1,1072	No
20	GLOBAL	Cartesian	4,6	0,	1,1072	No
21	GLOBAL	Cartesian	5,75	0,	1,1072	No
22	GLOBAL	Cartesian	6,9	0,	1,1072	No
23	GLOBAL	Cartesian	8,05	0,	1,1072	No
24	GLOBAL	Cartesian	9,2	0,	1,1072	No
25	GLOBAL	Cartesian	10,35	0,	1,1072	No
26	GLOBAL	Cartesian	11,5	0,	1,1072	No
27	GLOBAL	Cartesian	11,5	0,525	-0,07	Yes
28	GLOBAL	Cartesian	11,5	1,05	-0,07	Yes
29	GLOBAL	Cartesian	11,5	0,	-0,07	Yes
30	GLOBAL	Cartesian	6,13	1,05	-0,674	No
31	GLOBAL	Cartesian	0,	1,05	0,	No
32	GLOBAL	Cartesian	1,15	1,05	0,	No
33	GLOBAL	Cartesian	2,3	1,05	0,	No
34	GLOBAL	Cartesian	3,45	1,05	0,	No
35	GLOBAL	Cartesian	4,6	1,05	0,	No
36	GLOBAL	Cartesian	5,75	1,05	0,	No
37	GLOBAL	Cartesian	6,9	1,05	0,	No
38	GLOBAL	Cartesian	8,05	1,05	0,	No
39	GLOBAL	Cartesian	9,2	1,05	0,	No
40	GLOBAL	Cartesian	10,35	1,05	0,	No
41	GLOBAL	Cartesian	11,5	1,05	0,	Yes
42	GLOBAL	Cartesian	6,13	0,	-0,674	No
46	GLOBAL	Cartesian	0,	1,05	1,1072	No
47	GLOBAL	Cartesian	1,15	1,05	1,1072	No
48	GLOBAL	Cartesian	2,3	1,05	1,1072	No
49	GLOBAL	Cartesian	3,45	1,05	1,1072	No
50	GLOBAL	Cartesian	4,6	1,05	1,1072	No
51	GLOBAL	Cartesian	5,75	1,05	1,1072	No
52	GLOBAL	Cartesian	6,9	1,05	1,1072	No
53	GLOBAL	Cartesian	8,05	1,05	1,1072	No
54	GLOBAL	Cartesian	9,2	1,05	1,1072	No

Table: Joint Coordinates

Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
55	GLOBAL	Cartesian	10,35	1,05	1,1072	No
56	GLOBAL	Cartesian	11,5	1,05	1,1072	No
61	GLOBAL	Cartesian	6,9	1,05	-0,674	No
62	GLOBAL	Cartesian	9,2	1,05	-0,674	No
63	GLOBAL	Cartesian	6,9	0,	-0,674	No
64	GLOBAL	Cartesian	9,2	0,	-0,674	No
66	GLOBAL	Cartesian	0,	0,525	-0,07	No
68	GLOBAL	Cartesian	0,	1,05	-0,07	No
70	GLOBAL	Cartesian	0,	0,	-0,07	No
91	GLOBAL	Cartesian	1,15	0,	-0,674	No
92	GLOBAL	Cartesian	1,15	1,05	-0,674	No
97	GLOBAL	Cartesian	3,45	0,	-0,674	No
98	GLOBAL	Cartesian	3,45	1,05	-0,674	No
101	GLOBAL	Cartesian	4,61	0,	-0,674	No
102	GLOBAL	Cartesian	4,61	1,05	-0,674	No
103	GLOBAL	Cartesian	5,13	0,	-0,674	No
104	GLOBAL	Cartesian	5,13	1,05	-0,674	No
105	GLOBAL	Cartesian	10,35	0,	-0,674	No
106	GLOBAL	Cartesian	10,35	1,05	-0,674	No

Table: Joint Restraint Assignments

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
27	Yes	Yes	Yes	Yes	Yes	Yes
66	Yes	Yes	Yes	Yes	Yes	Yes

Table: Frame Section Assignments

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect
1	I/Wide Flange	N.A.	HE140B	HE140B
2	I/Wide Flange	N.A.	HE140B	HE140B
3	I/Wide Flange	N.A.	HE140B	HE140B
4	I/Wide Flange	N.A.	HE140B	HE140B
5	I/Wide Flange	N.A.	HE140B	HE140B
6	I/Wide Flange	N.A.	HE140B	HE140B
7	I/Wide Flange	N.A.	HE140B	HE140B
8	I/Wide Flange	N.A.	HE140B	HE140B
9	I/Wide Flange	N.A.	HE140B	HE140B
10	I/Wide Flange	N.A.	HE140B	HE140B
11	I/Wide Flange	N.A.	HE100B	HE100B
12	I/Wide Flange	N.A.	HE100B	HE100B
13	I/Wide Flange	N.A.	HE140B	HE140B
14	I/Wide Flange	N.A.	HE140B	HE140B
15	I/Wide Flange	N.A.	HE140B	HE140B
16	I/Wide Flange	N.A.	HE140B	HE140B
17	I/Wide Flange	N.A.	HE140B	HE140B
18	I/Wide Flange	N.A.	HE140B	HE140B
19	I/Wide Flange	N.A.	HE140B	HE140B
20	I/Wide Flange	N.A.	HE140B	HE140B

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect
21	I/Wide Flange	N.A.	HE140B	HE140B
22	I/Wide Flange	N.A.	HE140B	HE140B
23	I/Wide Flange	N.A.	HE140B	HE140B
24	I/Wide Flange	N.A.	HE140B	HE140B
25	I/Wide Flange	N.A.	HE140B	HE140B
26	I/Wide Flange	N.A.	HE140B	HE140B
27	I/Wide Flange	N.A.	HE140B	HE140B
28	I/Wide Flange	N.A.	HE140B	HE140B
29	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
30	I/Wide Flange	N.A.	HE140B	HE140B
31	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
32	I/Wide Flange	N.A.	HE140B	HE140B
33	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
34	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
35	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
36	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
37	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
38	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
39	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
40	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
41	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
42	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
43	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
44	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
45	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
46	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
47	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
48	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
49	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
50	I/Wide Flange	N.A.	HE140B	HE140B
51	I/Wide Flange	N.A.	HE140B	HE140B
52	I/Wide Flange	N.A.	HE140B	HE140B
53	I/Wide Flange	N.A.	HE100B	HE100B
54	I/Wide Flange	N.A.	HE100B	HE100B
55	I/Wide Flange	N.A.	HE100B	HE100B
56	I/Wide Flange	N.A.	HE100B	HE100B
57	I/Wide Flange	N.A.	HE100B	HE100B
58	I/Wide Flange	N.A.	HE140B	HE140B
59	I/Wide Flange	N.A.	HE140B	HE140B
60	I/Wide Flange	N.A.	HE140B	HE140B
61	I/Wide Flange	N.A.	HE140B	HE140B
62	I/Wide Flange	N.A.	HE140B	HE140B
63	I/Wide Flange	N.A.	HE140B	HE140B
64	I/Wide Flange	N.A.	HE140B	HE140B
65	I/Wide Flange	N.A.	HE140B	HE140B
66	I/Wide Flange	N.A.	HE140B	HE140B
67	I/Wide Flange	N.A.	HE140B	HE140B
68	I/Wide Flange	N.A.	HE100B	HE100B
69	I/Wide Flange	N.A.	HE140B	HE140B
70	I/Wide Flange	N.A.	HE140B	HE140B
71	I/Wide Flange	N.A.	HE140B	HE140B
72	I/Wide Flange	N.A.	HE140B	HE140B
73	I/Wide Flange	N.A.	HE140B	HE140B
74	I/Wide Flange	N.A.	HE140B	HE140B
75	I/Wide Flange	N.A.	HE140B	HE140B

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect
76	I/Wide Flange	N.A.	HE140B	HE140B
77	I/Wide Flange	N.A.	HE140B	HE140B
78	I/Wide Flange	N.A.	HE140B	HE140B
79	I/Wide Flange	N.A.	HE140B	HE140B
80	I/Wide Flange	N.A.	HE140B	HE140B
81	I/Wide Flange	N.A.	HE140B	HE140B
82	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
83	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
84	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
85	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
86	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
87	I/Wide Flange	N.A.	HE140B	HE140B
88	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
89	I/Wide Flange	N.A.	HE140B	HE140B
90	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
91	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
92	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
93	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
94	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
95	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
96	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
97	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
98	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
99	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
100	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
101	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
102	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
103	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
104	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
105	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
106	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
107	I/Wide Flange	N.A.	HE140B	HE140B
115	I/Wide Flange	N.A.	HE140B	HE140B
116	I/Wide Flange	N.A.	HE140B	HE140B
117	I/Wide Flange	N.A.	HE140B	HE140B
118	I/Wide Flange	N.A.	HE140B	HE140B
119	I/Wide Flange	N.A.	HE140B	HE140B
120	I/Wide Flange	N.A.	HE140B	HE140B
121	I/Wide Flange	N.A.	HE140B	HE140B
122	I/Wide Flange	N.A.	HE140B	HE140B
123	I/Wide Flange	N.A.	HE140B	HE140B
124	I/Wide Flange	N.A.	HE140B	HE140B
125	I/Wide Flange	N.A.	HE140B	HE140B
130	I/Wide Flange	N.A.	HE140B	HE140B
133	I/Wide Flange	N.A.	HE140B	HE140B
135	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
136	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
137	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
138	Tube	N.A.	TUBO100X100X8	TUBO100X100X8
150	I/Wide Flange	N.A.	HE140B	HE140B
151	I/Wide Flange	N.A.	HE140B	HE140B
153	I/Wide Flange	N.A.	HE140B	HE140B
158	I/Wide Flange	N.A.	HE140B	HE140B
159	I/Wide Flange	N.A.	HE140B	HE140B
168	I/Wide Flange	N.A.	HE140B	HE140B

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect
169	I/Wide Flange	N.A.	HE140B	HE140B
170	I/Wide Flange	N.A.	HE140B	HE140B
171	Channel	N.A.	UPN80	UPN80
172	Channel	N.A.	UPN80	UPN80
173	Channel	N.A.	UPN80	UPN80
174	Channel	N.A.	UPN80	UPN80

Table: Link Property Assignments

Table: Link Property Assignments

Link	LinkType	LinkJoints	LinkProp	LinkFDProp	PropMod
1	Linear	TwoJoint	RIGID	None	1,
2	Linear	TwoJoint	RIGID	None	1,
3	Linear	TwoJoint	APOYO	None	1,
4	Linear	TwoJoint	APOYO	None	1,
5	Linear	TwoJoint	RIGID	None	1,
6	Linear	TwoJoint	RIGID	None	1,
7	Linear	TwoJoint	APOYO	None	1,
8	Linear	TwoJoint	APOYO	None	1,

Table: Connectivity - Frame

Table: Connectivity - Frame

Frame	JointI	JointJ	IsCurved
1	1	2	No
2	2	3	No
3	3	4	No
4	4	5	No
5	5	6	No
6	6	7	No
7	7	8	No
8	8	9	No
9	9	10	No
10	10	11	No
11	105	10	No
12	106	40	No
13	103	104	No
14	104	30	No
15	16	17	No
16	17	18	No
17	18	19	No
18	19	20	No
19	20	21	No
20	21	22	No
21	22	23	No
22	23	24	No
23	24	25	No
24	25	26	No
25	30	61	No
26	91	12	No
27	12	97	No

Table: Connectivity - Frame

Frame	JointI	JointJ	IsCurved
28	92	13	No
29	8	23	No
30	13	98	No
31	22	7	No
32	61	14	No
33	21	6	No
34	6	20	No
35	20	5	No
36	5	19	No
37	19	4	No
38	4	18	No
39	18	3	No
40	3	17	No
41	17	2	No
42	2	16	No
43	16	1	No
44	8	24	No
45	24	9	No
46	9	25	No
47	25	10	No
48	10	26	No
49	26	11	No
50	14	62	No
51	63	15	No
52	15	64	No
53	12	3	No
54	33	13	No
55	101	5	No
56	102	35	No
57	15	8	No
58	31	32	No
59	32	33	No
60	33	34	No
61	34	35	No
62	35	36	No
63	36	37	No
64	37	38	No
65	38	39	No
66	39	40	No
67	40	41	No
68	14	38	No
69	105	106	No
70	15	14	No
71	101	102	No
72	46	47	No
73	47	48	No
74	48	49	No
75	49	50	No
76	50	51	No
77	51	52	No
78	52	53	No
79	53	54	No
80	54	55	No
81	55	56	No
82	7	23	No

Table: Connectivity - Frame

Frame	JointI	JointJ	IsCurved
83	6	22	No
84	37	53	No
85	36	52	No
86	38	53	No
87	103	42	No
88	52	37	No
89	42	63	No
90	51	36	No
91	36	50	No
92	50	35	No
93	35	49	No
94	49	34	No
95	34	48	No
96	48	33	No
97	33	47	No
98	47	32	No
99	32	46	No
100	46	31	No
101	38	54	No
102	54	39	No
103	39	55	No
104	55	40	No
105	40	56	No
106	56	41	No
107	42	30	No
115	1	31	No
116	2	32	No
117	3	33	No
118	4	34	No
119	5	35	No
120	6	36	No
121	7	37	No
122	8	38	No
123	9	39	No
124	10	40	No
125	11	41	No
130	91	92	No
133	97	98	No
135	91	2	No
136	92	32	No
137	97	4	No
138	98	34	No
150	97	101	No
151	101	103	No
153	62	106	No
158	98	102	No
159	102	104	No
168	64	105	No
169	63	61	No
170	64	62	No
171	63	7	No
172	61	37	No
173	64	9	No
174	62	39	No

Table: Frame Release Assignments 1 - General, Part 1 of 2

Table: Frame Release Assignments 1 - General, Part 1 of 2

Frame	PI	V2I	V3I	TI	M2I	M3I	PJ	V2J
118	No	No	No	No	Yes	Yes	No	No
119	No	No	No	No	Yes	Yes	No	No
120	No	No	No	No	Yes	Yes	No	No
121	No	No	No	No	Yes	Yes	No	No
122	No	No	No	No	Yes	Yes	No	No

Table: Frame Release Assignments 1 - General, Part 2 of 2

Table: Frame Release Assignments 1 - General, Part 2 of 2

Frame	V3J	TJ	M2J	M3J	PartialFix
118	No	No	Yes	Yes	No
119	No	No	Yes	Yes	No
120	No	No	Yes	Yes	No
121	No	No	Yes	Yes	No
122	No	No	Yes	Yes	No

Table: Connectivity - Link

Table: Connectivity - Link

Link	JointI	JointJ
1	68	66
2	66	70
3	68	31
4	70	1
5	28	27
6	27	29
7	28	41
8	29	11

Table: Joint Loads - Force, Part 1 of 2

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
1	VLCSC	GLOBAL	4,4	0,	0,	0,	0,
1	VTSSC	GLOBAL	0,	6,11	1,96	0,	0,
1	VTSCSC	GLOBAL	0,	8,95	4,81	0,	0,
1	VV	GLOBAL	0,	0,	3,33	0,	0,
1	VLSSC	GLOBAL	3,	0,	0,	0,	0,
11	VLCSC	GLOBAL	4,4	0,	0,	0,	0,
11	VTSSC	GLOBAL	0,	6,11	1,96	0,	0,
11	VTSCSC	GLOBAL	0,	8,95	4,81	0,	0,
11	VV	GLOBAL	0,	0,	3,33	0,	0,
11	VLSSC	GLOBAL	3,	0,	0,	0,	0,
31	VLCSC	GLOBAL	4,4	0,	0,	0,	0,
31	VTSSC	GLOBAL	0,	6,11	-1,96	0,	0,
31	VTSCSC	GLOBAL	0,	8,95	-4,81	0,	0,
31	VV	GLOBAL	0,	0,	1,11	0,	0,

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
31	VLSSC	GLOBAL	3,	0,	0,	0,	0,
41	VLSCC	GLOBAL	4,4	0,	0,	0,	0,
41	VTSSC	GLOBAL	0,	6,11	-1,96	0,	0,
41	VTSCC	GLOBAL	0,	8,95	-4,81	0,	0,
41	VV	GLOBAL	0,	0,	1,11	0,	0,
41	VLSSC	GLOBAL	3,	0,	0,	0,	0,

Table: Joint Loads - Force, Part 2 of 2

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m
1	VLSCC	0,
1	VTSSC	0,
1	VTSCC	0,
1	VV	0,
1	VLSSC	0,
11	VLSCC	0,
11	VTSSC	0,
11	VTSCC	0,
11	VV	0,
11	VLSSC	0,
31	VLSCC	0,
31	VTSSC	0,
31	VTSCC	0,
31	VV	0,
31	VLSSC	0,
41	VLSCC	0,
41	VTSSC	0,
41	VTSCC	0,
41	VV	0,
41	VLSSC	0,

Table: Frame Loads - Point, Part 1 of 2

Table: Frame Loads - Point, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDist
13	CM-TUBERIA	GLOBAL	Force	Gravity	RelDist	0,5
107	CM-TUBERIA	GLOBAL	Force	Gravity	RelDist	0,5

Table: Frame Loads - Point, Part 2 of 2

Table: Frame Loads - Point, Part 2 of 2

Frame	LoadPat	AbsDist m	Force KN
13	CM-TUBERIA	0,525	3,95
107	CM-TUBERIA	0,525	3,95

Table: Frame Loads - Distributed, Part 1 of 2

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
1	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
1	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
1	SCU	GLOBAL	Force	Gravity	RelDist	0,
1	SCU	GLOBAL	Force	X	RelDist	0,
2	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
2	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
2	SCU	GLOBAL	Force	Gravity	RelDist	0,
2	SCU	GLOBAL	Force	X	RelDist	0,
3	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
3	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
3	SCU	GLOBAL	Force	Gravity	RelDist	0,
3	SCU	GLOBAL	Force	X	RelDist	0,
4	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
4	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
4	SCU	GLOBAL	Force	Gravity	RelDist	0,
4	SCU	GLOBAL	Force	X	RelDist	0,
5	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
5	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
5	SCU	GLOBAL	Force	Gravity	RelDist	0,
5	SCU	GLOBAL	Force	X	RelDist	0,
6	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
6	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
6	SCU	GLOBAL	Force	Gravity	RelDist	0,
6	SCU	GLOBAL	Force	X	RelDist	0,
7	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
7	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
7	SCU	GLOBAL	Force	Gravity	RelDist	0,
7	SCU	GLOBAL	Force	X	RelDist	0,
8	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
8	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
8	SCU	GLOBAL	Force	Gravity	RelDist	0,
8	SCU	GLOBAL	Force	X	RelDist	0,
9	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
9	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
9	SCU	GLOBAL	Force	Gravity	RelDist	0,
9	SCU	GLOBAL	Force	X	RelDist	0,
10	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
10	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
10	SCU	GLOBAL	Force	Gravity	RelDist	0,
10	SCU	GLOBAL	Force	X	RelDist	0,
15	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
16	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
17	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
18	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
19	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
20	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
21	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
22	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
23	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
24	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
29	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
31	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
33	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
34	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
35	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
36	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
37	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
38	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
39	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
40	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
41	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
42	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
43	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
44	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
45	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
46	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
47	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
48	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
49	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
58	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
58	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
58	SCU	GLOBAL	Force	Gravity	RelDist	0,
58	SCU	GLOBAL	Force	X	RelDist	0,
59	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
59	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
59	SCU	GLOBAL	Force	Gravity	RelDist	0,
59	SCU	GLOBAL	Force	X	RelDist	0,
60	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
60	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
60	SCU	GLOBAL	Force	Gravity	RelDist	0,
60	SCU	GLOBAL	Force	X	RelDist	0,
61	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
61	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
61	SCU	GLOBAL	Force	Gravity	RelDist	0,
61	SCU	GLOBAL	Force	X	RelDist	0,
62	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
62	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
62	SCU	GLOBAL	Force	Gravity	RelDist	0,
62	SCU	GLOBAL	Force	X	RelDist	0,
63	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
63	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
63	SCU	GLOBAL	Force	Gravity	RelDist	0,
63	SCU	GLOBAL	Force	X	RelDist	0,
64	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
64	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
64	SCU	GLOBAL	Force	Gravity	RelDist	0,
64	SCU	GLOBAL	Force	X	RelDist	0,
65	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
65	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
65	SCU	GLOBAL	Force	Gravity	RelDist	0,
65	SCU	GLOBAL	Force	X	RelDist	0,
66	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
66	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
66	SCU	GLOBAL	Force	Gravity	RelDist	0,
66	SCU	GLOBAL	Force	X	RelDist	0,
67	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
67	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
67	SCU	GLOBAL	Force	Gravity	RelDist	0,
67	SCU	GLOBAL	Force	X	RelDist	0,
72	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
72	SCU	GLOBAL	Force	Y	RelDist	0,
73	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
73	SCU	GLOBAL	Force	Y	RelDist	0,
74	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
74	SCU	GLOBAL	Force	Y	RelDist	0,
75	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
75	SCU	GLOBAL	Force	Y	RelDist	0,
76	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
76	SCU	GLOBAL	Force	Y	RelDist	0,
77	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
77	SCU	GLOBAL	Force	Y	RelDist	0,
78	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
78	SCU	GLOBAL	Force	Y	RelDist	0,
79	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
79	SCU	GLOBAL	Force	Y	RelDist	0,
80	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
80	SCU	GLOBAL	Force	Y	RelDist	0,
81	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
81	SCU	GLOBAL	Force	Y	RelDist	0,
86	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
88	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
90	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
91	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
92	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
93	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
94	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
95	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
96	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
97	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
98	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
99	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
100	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
101	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
102	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
103	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
104	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
105	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
106	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
150	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
151	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
158	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
159	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
153	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
168	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
26	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
27	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
28	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
30	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
32	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
50	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
51	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
52	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
82	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
83	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
84	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
85	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
14	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
25	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
87	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,
89	CM- TRAMEX+REJILLA	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 2 of 2

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
1	CM- TRAMEX+REJILLA	1,	0,22	0,22
1	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
1	SCU	1,	2,63	2,63
1	SCU	1,	0,26	0,26
2	CM- TRAMEX+REJILLA	1,	0,22	0,22
2	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
2	SCU	1,	2,63	2,63
2	SCU	1,	0,26	0,26
3	CM- TRAMEX+REJILLA	1,	0,22	0,22
3	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
3	SCU	1,	2,63	2,63
3	SCU	1,	0,26	0,26
4	CM- TRAMEX+REJILLA	1,	0,22	0,22
4	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
4	SCU	1,	2,63	2,63
4	SCU	1,	0,26	0,26
5	CM- TRAMEX+REJILLA	1,	0,22	0,22
5	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
5	SCU	1,	2,63	2,63
5	SCU	1,	0,26	0,26
6	CM- TRAMEX+REJILLA	1,	0,22	0,22
6	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
6	SCU	1,	2,63	2,63
6	SCU	1,	0,26	0,26
7	CM- TRAMEX+REJILLA	1,	0,22	0,22
7	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
7	SCU	1,	2,63	2,63
7	SCU	1,	0,26	0,26
8	CM- TRAMEX+REJILLA	1,	0,22	0,22
8	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
8	SCU	1,	2,63	2,63
8	SCU	1,	0,26	0,26
9	CM- TRAMEX+REJILLA	1,	0,22	0,22
9	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
9	SCU	1,	2,63	2,63
9	SCU	1,	0,26	0,26
10	CM- TRAMEX+REJILLA	1,	0,22	0,22

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
10	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
10	SCU	1,	2,63	2,63
10	SCU	1,	0,26	0,26
15	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
16	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
17	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
18	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
19	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
20	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
21	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
22	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
23	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
24	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
29	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
31	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
33	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
34	CM- TRAMEX+REJILLA	1,	0,13	0,13
35	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
36	CM- TRAMEX+REJILLA	1,	0,13	0,13
37	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
38	CM- TRAMEX+REJILLA	1,	0,13	0,13
39	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
40	CM- TRAMEX+REJILLA	1,	0,13	0,13
41	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
42	CM- TRAMEX+REJILLA	1,	0,13	0,13
43	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
44	CM- TRAMEX+REJILLA	1,	0,13	0,13
45	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
46	CM- TRAMEX+REJILLA	1,	0,13	0,13
47	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
48	CM- TRAMEX+REJILLA	1,	0,13	0,13

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
49	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
58	CM- TRAMEX+REJILLA	1,	0,22	0,22
58	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
58	SCU	1,	2,63	2,63
58	SCU	1,	0,26	0,26
59	CM- TRAMEX+REJILLA	1,	0,22	0,22
59	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
59	SCU	1,	2,63	2,63
59	SCU	1,	0,26	0,26
60	CM- TRAMEX+REJILLA	1,	0,22	0,22
60	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
60	SCU	1,	2,63	2,63
60	SCU	1,	0,26	0,26
61	CM- TRAMEX+REJILLA	1,	0,22	0,22
61	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
61	SCU	1,	2,63	2,63
61	SCU	1,	0,26	0,26
62	CM- TRAMEX+REJILLA	1,	0,22	0,22
62	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
62	SCU	1,	2,63	2,63
62	SCU	1,	0,26	0,26
63	CM- TRAMEX+REJILLA	1,	0,22	0,22
63	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
63	SCU	1,	2,63	2,63
63	SCU	1,	0,26	0,26
64	CM- TRAMEX+REJILLA	1,	0,22	0,22
64	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
64	SCU	1,	2,63	2,63
64	SCU	1,	0,26	0,26
65	CM- TRAMEX+REJILLA	1,	0,22	0,22
65	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
65	SCU	1,	2,63	2,63
65	SCU	1,	0,26	0,26
66	CM- TRAMEX+REJILLA	1,	0,22	0,22
66	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
66	SCU	1,	2,63	2,63
66	SCU	1,	0,26	0,26
67	CM- TRAMEX+REJILLA	1,	0,22	0,22

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
67	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
67	SCU	1,	2,63	2,63
67	SCU	1,	0,26	0,26
72	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
72	SCU	1,	1,5	1,5
73	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
73	SCU	1,	1,5	1,5
74	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
74	SCU	1,	1,5	1,5
75	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
75	SCU	1,	1,5	1,5
76	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
76	SCU	1,	1,5	1,5
77	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
77	SCU	1,	1,5	1,5
78	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
78	SCU	1,	1,5	1,5
79	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
79	SCU	1,	1,5	1,5
80	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
80	SCU	1,	1,5	1,5
81	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
81	SCU	1,	1,5	1,5
86	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
88	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
90	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
91	CM- TRAMEX+REJILLA	1,	0,13	0,13
92	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
93	CM- TRAMEX+REJILLA	1,	0,13	0,13
94	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
95	CM- TRAMEX+REJILLA	1,	0,13	0,13
96	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
97	CM- TRAMEX+REJILLA	1,	0,13	0,13
98	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
99	CM- TRAMEX+REJILLA	1,	0,13	0,13

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	FOverLA KN/m	FOverLB KN/m
100	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
101	CM- TRAMEX+REJILLA	1,	0,13	0,13
102	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
103	CM- TRAMEX+REJILLA	1,	0,13	0,13
104	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
105	CM- TRAMEX+REJILLA	1,	0,13	0,13
106	CM- TRAMEX+REJILLA	1,	7,000E-02	7,000E-02
150	CM- TRAMEX+REJILLA	1,	0,22	0,22
151	CM- TRAMEX+REJILLA	1,	0,22	0,22
158	CM- TRAMEX+REJILLA	1,	0,22	0,22
159	CM- TRAMEX+REJILLA	1,	0,22	0,22
153	CM- TRAMEX+REJILLA	1,	0,22	0,22
168	CM- TRAMEX+REJILLA	1,	0,22	0,22
26	CM- TRAMEX+REJILLA	1,	0,22	0,22
27	CM- TRAMEX+REJILLA	1,	0,22	0,22
28	CM- TRAMEX+REJILLA	1,	0,22	0,22
30	CM- TRAMEX+REJILLA	1,	0,22	0,22
32	CM- TRAMEX+REJILLA	1,	0,22	0,22
50	CM- TRAMEX+REJILLA	1,	0,22	0,22
51	CM- TRAMEX+REJILLA	1,	0,22	0,22
52	CM- TRAMEX+REJILLA	1,	0,22	0,22
82	CM- TRAMEX+REJILLA	1,	0,13	0,13
83	CM- TRAMEX+REJILLA	1,	0,13	0,13
84	CM- TRAMEX+REJILLA	1,	0,13	0,13
85	CM- TRAMEX+REJILLA	1,	0,13	0,13
14	CM- TRAMEX+REJILLA	1,	0,22	0,22
25	CM- TRAMEX+REJILLA	1,	0,22	0,22
87	CM- TRAMEX+REJILLA	1,	0,22	0,22
89	CM- TRAMEX+REJILLA	1,	0,22	0,22

Table: Frame Loads - Temperature

Table: Frame Loads - Temperature				
Frame	LoadPat	Type	Temp C	JtPattern
1	TU-DIL	Temperature	41,62	None
1	TU-CON	Temperature	-13,13	None
1	GRA-HEAT	Temperature	1,	GRA-HEAT
1	GRA-COOL	Temperature	1,	GRA-COOL
2	TU-DIL	Temperature	41,62	None
2	TU-CON	Temperature	-13,13	None
2	GRA-HEAT	Temperature	1,	GRA-HEAT
2	GRA-COOL	Temperature	1,	GRA-COOL
3	TU-DIL	Temperature	41,62	None
3	TU-CON	Temperature	-13,13	None
3	GRA-HEAT	Temperature	1,	GRA-HEAT
3	GRA-COOL	Temperature	1,	GRA-COOL
4	TU-DIL	Temperature	41,62	None
4	TU-CON	Temperature	-13,13	None
4	GRA-HEAT	Temperature	1,	GRA-HEAT
4	GRA-COOL	Temperature	1,	GRA-COOL
5	TU-DIL	Temperature	41,62	None
5	TU-CON	Temperature	-13,13	None
5	GRA-HEAT	Temperature	1,	GRA-HEAT
5	GRA-COOL	Temperature	1,	GRA-COOL
6	TU-DIL	Temperature	41,62	None
6	TU-CON	Temperature	-13,13	None
6	GRA-HEAT	Temperature	1,	GRA-HEAT
6	GRA-COOL	Temperature	1,	GRA-COOL
7	TU-DIL	Temperature	41,62	None
7	TU-CON	Temperature	-13,13	None
7	GRA-HEAT	Temperature	1,	GRA-HEAT
7	GRA-COOL	Temperature	1,	GRA-COOL
8	TU-DIL	Temperature	41,62	None
8	TU-CON	Temperature	-13,13	None
8	GRA-HEAT	Temperature	1,	GRA-HEAT
8	GRA-COOL	Temperature	1,	GRA-COOL
9	TU-DIL	Temperature	41,62	None
9	TU-CON	Temperature	-13,13	None
9	GRA-HEAT	Temperature	1,	GRA-HEAT
9	GRA-COOL	Temperature	1,	GRA-COOL
10	TU-DIL	Temperature	41,62	None
10	TU-CON	Temperature	-13,13	None
10	GRA-HEAT	Temperature	1,	GRA-HEAT
10	GRA-COOL	Temperature	1,	GRA-COOL
15	TU-DIL	Temperature	41,62	None
15	TU-CON	Temperature	-13,13	None
15	GRA-HEAT	Temperature	1,	GRA-HEAT
15	GRA-COOL	Temperature	1,	GRA-COOL
16	TU-DIL	Temperature	41,62	None
16	TU-CON	Temperature	-13,13	None
16	GRA-HEAT	Temperature	1,	GRA-HEAT
16	GRA-COOL	Temperature	1,	GRA-COOL
17	TU-DIL	Temperature	41,62	None
17	TU-CON	Temperature	-13,13	None
17	GRA-HEAT	Temperature	1,	GRA-HEAT
17	GRA-COOL	Temperature	1,	GRA-COOL
18	TU-DIL	Temperature	41,62	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
18	TU-CON	Temperature	-13,13	None
18	GRA-HEAT	Temperature	1,	GRA-HEAT
18	GRA-COOL	Temperature	1,	GRA-COOL
19	TU-DIL	Temperature	41,62	None
19	TU-CON	Temperature	-13,13	None
19	GRA-HEAT	Temperature	1,	GRA-HEAT
19	GRA-COOL	Temperature	1,	GRA-COOL
20	TU-DIL	Temperature	41,62	None
20	TU-CON	Temperature	-13,13	None
20	GRA-HEAT	Temperature	1,	GRA-HEAT
20	GRA-COOL	Temperature	1,	GRA-COOL
21	TU-DIL	Temperature	41,62	None
21	TU-CON	Temperature	-13,13	None
21	GRA-HEAT	Temperature	1,	GRA-HEAT
21	GRA-COOL	Temperature	1,	GRA-COOL
22	TU-DIL	Temperature	41,62	None
22	TU-CON	Temperature	-13,13	None
22	GRA-HEAT	Temperature	1,	GRA-HEAT
22	GRA-COOL	Temperature	1,	GRA-COOL
23	TU-DIL	Temperature	41,62	None
23	TU-CON	Temperature	-13,13	None
23	GRA-HEAT	Temperature	1,	GRA-HEAT
23	GRA-COOL	Temperature	1,	GRA-COOL
24	TU-DIL	Temperature	41,62	None
24	TU-CON	Temperature	-13,13	None
24	GRA-HEAT	Temperature	1,	GRA-HEAT
24	GRA-COOL	Temperature	1,	GRA-COOL
29	TU-DIL	Temperature	41,62	None
29	TU-CON	Temperature	-13,13	None
29	GRA-HEAT	Temperature	1,	GRA-HEAT
29	GRA-COOL	Temperature	1,	GRA-COOL
31	TU-DIL	Temperature	41,62	None
31	TU-CON	Temperature	-13,13	None
31	GRA-HEAT	Temperature	1,	GRA-HEAT
31	GRA-COOL	Temperature	1,	GRA-COOL
33	TU-DIL	Temperature	41,62	None
33	TU-CON	Temperature	-13,13	None
33	GRA-HEAT	Temperature	1,	GRA-HEAT
33	GRA-COOL	Temperature	1,	GRA-COOL
34	TU-DIL	Temperature	41,62	None
34	TU-CON	Temperature	-13,13	None
34	GRA-HEAT	Temperature	1,	GRA-HEAT
34	GRA-COOL	Temperature	1,	GRA-COOL
35	TU-DIL	Temperature	41,62	None
35	TU-CON	Temperature	-13,13	None
35	GRA-HEAT	Temperature	1,	GRA-HEAT
35	GRA-COOL	Temperature	1,	GRA-COOL
36	TU-DIL	Temperature	41,62	None
36	TU-CON	Temperature	-13,13	None
36	GRA-HEAT	Temperature	1,	GRA-HEAT
36	GRA-COOL	Temperature	1,	GRA-COOL
37	TU-DIL	Temperature	41,62	None
37	TU-CON	Temperature	-13,13	None
37	GRA-HEAT	Temperature	1,	GRA-HEAT
37	GRA-COOL	Temperature	1,	GRA-COOL

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
38	TU-DIL	Temperature	41,62	None
38	TU-CON	Temperature	-13,13	None
38	GRA-HEAT	Temperature	1,	GRA-HEAT
38	GRA-COOL	Temperature	1,	GRA-COOL
39	TU-DIL	Temperature	41,62	None
39	TU-CON	Temperature	-13,13	None
39	GRA-HEAT	Temperature	1,	GRA-HEAT
39	GRA-COOL	Temperature	1,	GRA-COOL
40	TU-DIL	Temperature	41,62	None
40	TU-CON	Temperature	-13,13	None
40	GRA-HEAT	Temperature	1,	GRA-HEAT
40	GRA-COOL	Temperature	1,	GRA-COOL
41	TU-DIL	Temperature	41,62	None
41	TU-CON	Temperature	-13,13	None
41	GRA-HEAT	Temperature	1,	GRA-HEAT
41	GRA-COOL	Temperature	1,	GRA-COOL
42	TU-DIL	Temperature	41,62	None
42	TU-CON	Temperature	-13,13	None
42	GRA-HEAT	Temperature	1,	GRA-HEAT
42	GRA-COOL	Temperature	1,	GRA-COOL
43	TU-DIL	Temperature	41,62	None
43	TU-CON	Temperature	-13,13	None
43	GRA-HEAT	Temperature	1,	GRA-HEAT
43	GRA-COOL	Temperature	1,	GRA-COOL
44	TU-DIL	Temperature	41,62	None
44	TU-CON	Temperature	-13,13	None
44	GRA-HEAT	Temperature	1,	GRA-HEAT
44	GRA-COOL	Temperature	1,	GRA-COOL
45	TU-DIL	Temperature	41,62	None
45	TU-CON	Temperature	-13,13	None
45	GRA-HEAT	Temperature	1,	GRA-HEAT
45	GRA-COOL	Temperature	1,	GRA-COOL
46	TU-DIL	Temperature	41,62	None
46	TU-CON	Temperature	-13,13	None
46	GRA-HEAT	Temperature	1,	GRA-HEAT
46	GRA-COOL	Temperature	1,	GRA-COOL
47	TU-DIL	Temperature	41,62	None
47	TU-CON	Temperature	-13,13	None
47	GRA-HEAT	Temperature	1,	GRA-HEAT
47	GRA-COOL	Temperature	1,	GRA-COOL
48	TU-DIL	Temperature	41,62	None
48	TU-CON	Temperature	-13,13	None
48	GRA-HEAT	Temperature	1,	GRA-HEAT
48	GRA-COOL	Temperature	1,	GRA-COOL
49	TU-DIL	Temperature	41,62	None
49	TU-CON	Temperature	-13,13	None
49	GRA-HEAT	Temperature	1,	GRA-HEAT
49	GRA-COOL	Temperature	1,	GRA-COOL
58	TU-DIL	Temperature	41,62	None
58	TU-CON	Temperature	-13,13	None
58	GRA-HEAT	Temperature	1,	GRA-HEAT
58	GRA-COOL	Temperature	1,	GRA-COOL
59	TU-DIL	Temperature	41,62	None
59	TU-CON	Temperature	-13,13	None
59	GRA-HEAT	Temperature	1,	GRA-HEAT

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
59	GRA-COOL	Temperature	1,	GRA-COOL
60	TU-DIL	Temperature	41,62	None
60	TU-CON	Temperature	-13,13	None
60	GRA-HEAT	Temperature	1,	GRA-HEAT
60	GRA-COOL	Temperature	1,	GRA-COOL
61	TU-DIL	Temperature	41,62	None
61	TU-CON	Temperature	-13,13	None
61	GRA-HEAT	Temperature	1,	GRA-HEAT
61	GRA-COOL	Temperature	1,	GRA-COOL
62	TU-DIL	Temperature	41,62	None
62	TU-CON	Temperature	-13,13	None
62	GRA-HEAT	Temperature	1,	GRA-HEAT
62	GRA-COOL	Temperature	1,	GRA-COOL
63	TU-DIL	Temperature	41,62	None
63	TU-CON	Temperature	-13,13	None
63	GRA-HEAT	Temperature	1,	GRA-HEAT
63	GRA-COOL	Temperature	1,	GRA-COOL
64	TU-DIL	Temperature	41,62	None
64	TU-CON	Temperature	-13,13	None
64	GRA-HEAT	Temperature	1,	GRA-HEAT
64	GRA-COOL	Temperature	1,	GRA-COOL
65	TU-DIL	Temperature	41,62	None
65	TU-CON	Temperature	-13,13	None
65	GRA-HEAT	Temperature	1,	GRA-HEAT
65	GRA-COOL	Temperature	1,	GRA-COOL
66	TU-DIL	Temperature	41,62	None
66	TU-CON	Temperature	-13,13	None
66	GRA-HEAT	Temperature	1,	GRA-HEAT
66	GRA-COOL	Temperature	1,	GRA-COOL
67	TU-DIL	Temperature	41,62	None
67	TU-CON	Temperature	-13,13	None
67	GRA-HEAT	Temperature	1,	GRA-HEAT
67	GRA-COOL	Temperature	1,	GRA-COOL
72	TU-DIL	Temperature	41,62	None
72	TU-CON	Temperature	-13,13	None
72	GRA-HEAT	Temperature	1,	GRA-HEAT
72	GRA-COOL	Temperature	1,	GRA-COOL
73	TU-DIL	Temperature	41,62	None
73	TU-CON	Temperature	-13,13	None
73	GRA-HEAT	Temperature	1,	GRA-HEAT
73	GRA-COOL	Temperature	1,	GRA-COOL
74	TU-DIL	Temperature	41,62	None
74	TU-CON	Temperature	-13,13	None
74	GRA-HEAT	Temperature	1,	GRA-HEAT
74	GRA-COOL	Temperature	1,	GRA-COOL
75	TU-DIL	Temperature	41,62	None
75	TU-CON	Temperature	-13,13	None
75	GRA-HEAT	Temperature	1,	GRA-HEAT
75	GRA-COOL	Temperature	1,	GRA-COOL
76	TU-DIL	Temperature	41,62	None
76	TU-CON	Temperature	-13,13	None
76	GRA-HEAT	Temperature	1,	GRA-HEAT
76	GRA-COOL	Temperature	1,	GRA-COOL
77	TU-DIL	Temperature	41,62	None
77	TU-CON	Temperature	-13,13	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
77	GRA-HEAT	Temperature	1,	GRA-HEAT
77	GRA-COOL	Temperature	1,	GRA-COOL
78	TU-DIL	Temperature	41,62	None
78	TU-CON	Temperature	-13,13	None
78	GRA-HEAT	Temperature	1,	GRA-HEAT
78	GRA-COOL	Temperature	1,	GRA-COOL
79	TU-DIL	Temperature	41,62	None
79	TU-CON	Temperature	-13,13	None
79	GRA-HEAT	Temperature	1,	GRA-HEAT
79	GRA-COOL	Temperature	1,	GRA-COOL
80	TU-DIL	Temperature	41,62	None
80	TU-CON	Temperature	-13,13	None
80	GRA-HEAT	Temperature	1,	GRA-HEAT
80	GRA-COOL	Temperature	1,	GRA-COOL
81	TU-DIL	Temperature	41,62	None
81	TU-CON	Temperature	-13,13	None
81	GRA-HEAT	Temperature	1,	GRA-HEAT
81	GRA-COOL	Temperature	1,	GRA-COOL
86	TU-DIL	Temperature	41,62	None
86	TU-CON	Temperature	-13,13	None
86	GRA-HEAT	Temperature	1,	GRA-HEAT
86	GRA-COOL	Temperature	1,	GRA-COOL
88	TU-DIL	Temperature	41,62	None
88	TU-CON	Temperature	-13,13	None
88	GRA-HEAT	Temperature	1,	GRA-HEAT
88	GRA-COOL	Temperature	1,	GRA-COOL
90	TU-DIL	Temperature	41,62	None
90	TU-CON	Temperature	-13,13	None
90	GRA-HEAT	Temperature	1,	GRA-HEAT
90	GRA-COOL	Temperature	1,	GRA-COOL
91	TU-DIL	Temperature	41,62	None
91	TU-CON	Temperature	-13,13	None
91	GRA-HEAT	Temperature	1,	GRA-HEAT
91	GRA-COOL	Temperature	1,	GRA-COOL
92	TU-DIL	Temperature	41,62	None
92	TU-CON	Temperature	-13,13	None
92	GRA-HEAT	Temperature	1,	GRA-HEAT
92	GRA-COOL	Temperature	1,	GRA-COOL
93	TU-DIL	Temperature	41,62	None
93	TU-CON	Temperature	-13,13	None
93	GRA-HEAT	Temperature	1,	GRA-HEAT
93	GRA-COOL	Temperature	1,	GRA-COOL
94	TU-DIL	Temperature	41,62	None
94	TU-CON	Temperature	-13,13	None
94	GRA-HEAT	Temperature	1,	GRA-HEAT
94	GRA-COOL	Temperature	1,	GRA-COOL
95	TU-DIL	Temperature	41,62	None
95	TU-CON	Temperature	-13,13	None
95	GRA-HEAT	Temperature	1,	GRA-HEAT
95	GRA-COOL	Temperature	1,	GRA-COOL
96	TU-DIL	Temperature	41,62	None
96	TU-CON	Temperature	-13,13	None
96	GRA-HEAT	Temperature	1,	GRA-HEAT
96	GRA-COOL	Temperature	1,	GRA-COOL
97	TU-DIL	Temperature	41,62	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
97	TU-CON	Temperature	-13,13	None
97	GRA-HEAT	Temperature	1,	GRA-HEAT
97	GRA-COOL	Temperature	1,	GRA-COOL
98	TU-DIL	Temperature	41,62	None
98	TU-CON	Temperature	-13,13	None
98	GRA-HEAT	Temperature	1,	GRA-HEAT
98	GRA-COOL	Temperature	1,	GRA-COOL
99	TU-DIL	Temperature	41,62	None
99	TU-CON	Temperature	-13,13	None
99	GRA-HEAT	Temperature	1,	GRA-HEAT
99	GRA-COOL	Temperature	1,	GRA-COOL
100	TU-DIL	Temperature	41,62	None
100	TU-CON	Temperature	-13,13	None
100	GRA-HEAT	Temperature	1,	GRA-HEAT
100	GRA-COOL	Temperature	1,	GRA-COOL
101	TU-DIL	Temperature	41,62	None
101	TU-CON	Temperature	-13,13	None
101	GRA-HEAT	Temperature	1,	GRA-HEAT
101	GRA-COOL	Temperature	1,	GRA-COOL
102	TU-DIL	Temperature	41,62	None
102	TU-CON	Temperature	-13,13	None
102	GRA-HEAT	Temperature	1,	GRA-HEAT
102	GRA-COOL	Temperature	1,	GRA-COOL
103	TU-DIL	Temperature	41,62	None
103	TU-CON	Temperature	-13,13	None
103	GRA-HEAT	Temperature	1,	GRA-HEAT
103	GRA-COOL	Temperature	1,	GRA-COOL
104	TU-DIL	Temperature	41,62	None
104	TU-CON	Temperature	-13,13	None
104	GRA-HEAT	Temperature	1,	GRA-HEAT
104	GRA-COOL	Temperature	1,	GRA-COOL
105	TU-DIL	Temperature	41,62	None
105	TU-CON	Temperature	-13,13	None
105	GRA-HEAT	Temperature	1,	GRA-HEAT
105	GRA-COOL	Temperature	1,	GRA-COOL
106	TU-DIL	Temperature	41,62	None
106	TU-CON	Temperature	-13,13	None
106	GRA-HEAT	Temperature	1,	GRA-HEAT
106	GRA-COOL	Temperature	1,	GRA-COOL
115	TU-DIL	Temperature	41,62	None
115	TU-CON	Temperature	-13,13	None
115	GRA-HEAT	Temperature	1,	GRA-HEAT
115	GRA-COOL	Temperature	1,	GRA-COOL
116	TU-DIL	Temperature	41,62	None
116	TU-CON	Temperature	-13,13	None
116	GRA-HEAT	Temperature	1,	GRA-HEAT
116	GRA-COOL	Temperature	1,	GRA-COOL
117	TU-DIL	Temperature	41,62	None
117	TU-CON	Temperature	-13,13	None
117	GRA-HEAT	Temperature	1,	GRA-HEAT
117	GRA-COOL	Temperature	1,	GRA-COOL
118	TU-DIL	Temperature	41,62	None
118	TU-CON	Temperature	-13,13	None
118	GRA-HEAT	Temperature	1,	GRA-HEAT
118	GRA-COOL	Temperature	1,	GRA-COOL

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
119	TU-DIL	Temperature	41,62	None
119	TU-CON	Temperature	-13,13	None
119	GRA-HEAT	Temperature	1,	GRA-HEAT
119	GRA-COOL	Temperature	1,	GRA-COOL
120	TU-DIL	Temperature	41,62	None
120	TU-CON	Temperature	-13,13	None
120	GRA-HEAT	Temperature	1,	GRA-HEAT
120	GRA-COOL	Temperature	1,	GRA-COOL
121	TU-DIL	Temperature	41,62	None
121	TU-CON	Temperature	-13,13	None
121	GRA-HEAT	Temperature	1,	GRA-HEAT
121	GRA-COOL	Temperature	1,	GRA-COOL
122	TU-DIL	Temperature	41,62	None
122	TU-CON	Temperature	-13,13	None
122	GRA-HEAT	Temperature	1,	GRA-HEAT
122	GRA-COOL	Temperature	1,	GRA-COOL
123	TU-DIL	Temperature	41,62	None
123	TU-CON	Temperature	-13,13	None
123	GRA-HEAT	Temperature	1,	GRA-HEAT
123	GRA-COOL	Temperature	1,	GRA-COOL
124	TU-DIL	Temperature	41,62	None
124	TU-CON	Temperature	-13,13	None
124	GRA-HEAT	Temperature	1,	GRA-HEAT
124	GRA-COOL	Temperature	1,	GRA-COOL
125	TU-DIL	Temperature	41,62	None
125	TU-CON	Temperature	-13,13	None
125	GRA-HEAT	Temperature	1,	GRA-HEAT
125	GRA-COOL	Temperature	1,	GRA-COOL
130	TU-DIL	Temperature	41,62	None
130	TU-CON	Temperature	-13,13	None
130	GRA-HEAT	Temperature	1,	GRA-HEAT
130	GRA-COOL	Temperature	1,	GRA-COOL
133	TU-DIL	Temperature	41,62	None
133	TU-CON	Temperature	-13,13	None
133	GRA-HEAT	Temperature	1,	GRA-HEAT
133	GRA-COOL	Temperature	1,	GRA-COOL
135	TU-DIL	Temperature	41,62	None
135	TU-CON	Temperature	-13,13	None
135	GRA-HEAT	Temperature	1,	GRA-HEAT
135	GRA-COOL	Temperature	1,	GRA-COOL
136	TU-DIL	Temperature	41,62	None
136	TU-CON	Temperature	-13,13	None
136	GRA-HEAT	Temperature	1,	GRA-HEAT
136	GRA-COOL	Temperature	1,	GRA-COOL
137	TU-DIL	Temperature	41,62	None
137	TU-CON	Temperature	-13,13	None
137	GRA-HEAT	Temperature	1,	GRA-HEAT
137	GRA-COOL	Temperature	1,	GRA-COOL
138	TU-DIL	Temperature	41,62	None
138	TU-CON	Temperature	-13,13	None
138	GRA-HEAT	Temperature	1,	GRA-HEAT
138	GRA-COOL	Temperature	1,	GRA-COOL
150	TU-DIL	Temperature	41,62	None
150	TU-CON	Temperature	-13,13	None
150	GRA-HEAT	Temperature	1,	GRA-HEAT

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
150	GRA-COOL	Temperature	1,	GRA-COOL
151	TU-DIL	Temperature	41,62	None
151	TU-CON	Temperature	-13,13	None
151	GRA-HEAT	Temperature	1,	GRA-HEAT
151	GRA-COOL	Temperature	1,	GRA-COOL
158	TU-DIL	Temperature	41,62	None
158	TU-CON	Temperature	-13,13	None
158	GRA-HEAT	Temperature	1,	GRA-HEAT
158	GRA-COOL	Temperature	1,	GRA-COOL
159	TU-DIL	Temperature	41,62	None
159	TU-CON	Temperature	-13,13	None
159	GRA-HEAT	Temperature	1,	GRA-HEAT
159	GRA-COOL	Temperature	1,	GRA-COOL
153	TU-DIL	Temperature	41,62	None
153	TU-CON	Temperature	-13,13	None
153	GRA-HEAT	Temperature	1,	GRA-HEAT
153	GRA-COOL	Temperature	1,	GRA-COOL
168	TU-DIL	Temperature	41,62	None
168	TU-CON	Temperature	-13,13	None
168	GRA-HEAT	Temperature	1,	GRA-HEAT
168	GRA-COOL	Temperature	1,	GRA-COOL
169	TU-DIL	Temperature	41,62	None
169	TU-CON	Temperature	-13,13	None
169	GRA-HEAT	Temperature	1,	GRA-HEAT
169	GRA-COOL	Temperature	1,	GRA-COOL
170	TU-DIL	Temperature	41,62	None
170	TU-CON	Temperature	-13,13	None
170	GRA-HEAT	Temperature	1,	GRA-HEAT
170	GRA-COOL	Temperature	1,	GRA-COOL
171	TU-DIL	Temperature	41,62	None
171	TU-CON	Temperature	-13,13	None
171	GRA-HEAT	Temperature	1,	GRA-HEAT
171	GRA-COOL	Temperature	1,	GRA-COOL
172	TU-DIL	Temperature	41,62	None
172	TU-CON	Temperature	-13,13	None
172	GRA-HEAT	Temperature	1,	GRA-HEAT
172	GRA-COOL	Temperature	1,	GRA-COOL
173	TU-DIL	Temperature	41,62	None
173	TU-CON	Temperature	-13,13	None
173	GRA-HEAT	Temperature	1,	GRA-HEAT
173	GRA-COOL	Temperature	1,	GRA-COOL
174	TU-DIL	Temperature	41,62	None
174	TU-CON	Temperature	-13,13	None
174	GRA-HEAT	Temperature	1,	GRA-HEAT
174	GRA-COOL	Temperature	1,	GRA-COOL
11	TU-DIL	Temperature	41,62	None
11	TU-CON	Temperature	-13,13	None
11	GRA-HEAT	Temperature	1,	GRA-HEAT
11	GRA-COOL	Temperature	1,	GRA-COOL
12	TU-DIL	Temperature	41,62	None
12	TU-CON	Temperature	-13,13	None
12	GRA-HEAT	Temperature	1,	GRA-HEAT
12	GRA-COOL	Temperature	1,	GRA-COOL
26	TU-DIL	Temperature	41,62	None
26	TU-CON	Temperature	-13,13	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
26	GRA-HEAT	Temperature	1,	GRA-HEAT
26	GRA-COOL	Temperature	1,	GRA-COOL
27	TU-DIL	Temperature	41,62	None
27	TU-CON	Temperature	-13,13	None
27	GRA-HEAT	Temperature	1,	GRA-HEAT
27	GRA-COOL	Temperature	1,	GRA-COOL
28	TU-DIL	Temperature	41,62	None
28	TU-CON	Temperature	-13,13	None
28	GRA-HEAT	Temperature	1,	GRA-HEAT
28	GRA-COOL	Temperature	1,	GRA-COOL
30	TU-DIL	Temperature	41,62	None
30	TU-CON	Temperature	-13,13	None
30	GRA-HEAT	Temperature	1,	GRA-HEAT
30	GRA-COOL	Temperature	1,	GRA-COOL
32	TU-DIL	Temperature	41,62	None
32	TU-CON	Temperature	-13,13	None
32	GRA-HEAT	Temperature	1,	GRA-HEAT
32	GRA-COOL	Temperature	1,	GRA-COOL
50	TU-DIL	Temperature	41,62	None
50	TU-CON	Temperature	-13,13	None
50	GRA-HEAT	Temperature	1,	GRA-HEAT
50	GRA-COOL	Temperature	1,	GRA-COOL
51	TU-DIL	Temperature	41,62	None
51	TU-CON	Temperature	-13,13	None
51	GRA-HEAT	Temperature	1,	GRA-HEAT
51	GRA-COOL	Temperature	1,	GRA-COOL
52	TU-DIL	Temperature	41,62	None
52	TU-CON	Temperature	-13,13	None
52	GRA-HEAT	Temperature	1,	GRA-HEAT
52	GRA-COOL	Temperature	1,	GRA-COOL
53	TU-DIL	Temperature	41,62	None
53	TU-CON	Temperature	-13,13	None
53	GRA-HEAT	Temperature	1,	GRA-HEAT
53	GRA-COOL	Temperature	1,	GRA-COOL
54	TU-DIL	Temperature	41,62	None
54	TU-CON	Temperature	-13,13	None
54	GRA-HEAT	Temperature	1,	GRA-HEAT
54	GRA-COOL	Temperature	1,	GRA-COOL
55	TU-DIL	Temperature	41,62	None
55	TU-CON	Temperature	-13,13	None
55	GRA-HEAT	Temperature	1,	GRA-HEAT
55	GRA-COOL	Temperature	1,	GRA-COOL
56	TU-DIL	Temperature	41,62	None
56	TU-CON	Temperature	-13,13	None
56	GRA-HEAT	Temperature	1,	GRA-HEAT
56	GRA-COOL	Temperature	1,	GRA-COOL
57	TU-DIL	Temperature	41,62	None
57	TU-CON	Temperature	-13,13	None
57	GRA-HEAT	Temperature	1,	GRA-HEAT
57	GRA-COOL	Temperature	1,	GRA-COOL
68	TU-DIL	Temperature	41,62	None
68	TU-CON	Temperature	-13,13	None
68	GRA-HEAT	Temperature	1,	GRA-HEAT
68	GRA-COOL	Temperature	1,	GRA-COOL
69	TU-DIL	Temperature	41,62	None

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
69	TU-CON	Temperature	-13,13	None
69	GRA-HEAT	Temperature	1,	GRA-HEAT
69	GRA-COOL	Temperature	1,	GRA-COOL
70	TU-DIL	Temperature	41,62	None
70	TU-CON	Temperature	-13,13	None
70	GRA-HEAT	Temperature	1,	GRA-HEAT
70	GRA-COOL	Temperature	1,	GRA-COOL
71	TU-DIL	Temperature	41,62	None
71	TU-CON	Temperature	-13,13	None
71	GRA-HEAT	Temperature	1,	GRA-HEAT
71	GRA-COOL	Temperature	1,	GRA-COOL
82	TU-DIL	Temperature	41,62	None
82	TU-CON	Temperature	-13,13	None
82	GRA-HEAT	Temperature	1,	GRA-HEAT
82	GRA-COOL	Temperature	1,	GRA-COOL
83	TU-DIL	Temperature	41,62	None
83	TU-CON	Temperature	-13,13	None
83	GRA-HEAT	Temperature	1,	GRA-HEAT
83	GRA-COOL	Temperature	1,	GRA-COOL
84	TU-DIL	Temperature	41,62	None
84	TU-CON	Temperature	-13,13	None
84	GRA-HEAT	Temperature	1,	GRA-HEAT
84	GRA-COOL	Temperature	1,	GRA-COOL
85	TU-DIL	Temperature	41,62	None
85	TU-CON	Temperature	-13,13	None
85	GRA-HEAT	Temperature	1,	GRA-HEAT
85	GRA-COOL	Temperature	1,	GRA-COOL
13	GRA-HEAT	Temperature	1,	GRA-HEAT
13	GRA-COOL	Temperature	1,	GRA-COOL
14	TU-DIL	Temperature	41,62	None
14	TU-CON	Temperature	-13,13	None
14	GRA-HEAT	Temperature	1,	GRA-HEAT
14	GRA-COOL	Temperature	1,	GRA-COOL
25	TU-DIL	Temperature	41,62	None
25	TU-CON	Temperature	-13,13	None
25	GRA-HEAT	Temperature	1,	GRA-HEAT
25	GRA-COOL	Temperature	1,	GRA-COOL
87	TU-DIL	Temperature	41,62	None
87	TU-CON	Temperature	-13,13	None
87	GRA-HEAT	Temperature	1,	GRA-HEAT
87	GRA-COOL	Temperature	1,	GRA-COOL
89	TU-DIL	Temperature	41,62	None
89	TU-CON	Temperature	-13,13	None
89	GRA-HEAT	Temperature	1,	GRA-HEAT
89	GRA-COOL	Temperature	1,	GRA-COOL
107	GRA-HEAT	Temperature	1,	GRA-HEAT
107	GRA-COOL	Temperature	1,	GRA-COOL

APÉNDICE Nº 4: LISTADO DE CÁLCULO DE LA PASARELA SOBRE LA CORONACIÓN

Table: Joint Coordinates

Table: Joint Coordinates						
Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
1	GLOBAL	Cartesian	0,	0,	0,	No
2	GLOBAL	Cartesian	0,	0,	0,8	No
3	GLOBAL	Cartesian	2,15	0,	0,8	No
4	GLOBAL	Cartesian	2,15	0,	0,	No
5	GLOBAL	Cartesian	4,3	0,	0,	No
6	GLOBAL	Cartesian	4,3	0,	0,8	No

Table: Joint Restraint Assignments

Table: Joint Restraint Assignments						
Joint	U1	U2	U3	R1	R2	R3
1	Yes	Yes	Yes	Yes	Yes	Yes
4	Yes	Yes	Yes	Yes	Yes	Yes
5	Yes	Yes	Yes	Yes	Yes	Yes

Table: Connectivity - Frame

Table: Connectivity - Frame			
Frame	JointI	JointJ	IsCurved
1	1	2	No
2	2	3	No
3	3	4	No
4	5	6	No
11	3	6	No

Table: Frame Section Properties 01 - General, Part 1 of 2

Table: Frame Section Properties 01 - General, Part 1 of 2						
SectionName	Material	Shape	t3 m	t2 m	tf m	tw m
HE140B	S275	I/Wide Flange	0,14	0,14	0,012	0,007

Table: Frame Section Properties 01 - General, Part 2 of 2

Table: Frame Section Properties 01 - General, Part 2 of 2			
SectionName	t2b m	tfb m	Area m2
HE140B	0,14	0,012	0,0043

Table: Frame Section Assignments

Table: Frame Section Assignments					
Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1	I/Wide Flange	N.A.	HE140B	HE140B	Default
2	I/Wide Flange	N.A.	HE140B	HE140B	Default
3	I/Wide Flange	N.A.	HE140B	HE140B	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
4	I/Wide Flange	N.A.	HE140B	HE140B	Default
11	I/Wide Flange	N.A.	HE140B	HE140B	Default

Table: Load Pattern Definitions

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
PP	Dead	1,	
CM-BARANDILLA	Dead	0,	
CM-TRAMEX	Dead	0,	
SCU-BARANDILLA	Live	0,	
SCU-TRAMEX	Live	0,	
VCSC	Live	0,	
TEMPERATURA+	Live	0,	
TEMPERATURA-	Live	0,	

Table: Load Case Definitions

Table: Load Case Definitions

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	Notes
DEAD	LinStatic	Zero				
MODAL	LinModal	Zero				
CM-BARANDILLA	LinStatic	Zero				
CM-TRAMEX	LinStatic	Zero				
SCU-BARANDILLA	LinStatic	Zero				
SCU-TRAMEX	LinStatic	Zero				
VCSC	LinStatic	Zero				
TEMPERATURA+	LinStatic	Zero				
TEMPERATURA-	LinStatic	Zero				

Table: Combination Definitions

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU	Linear Add	No	Linear Static	CM-BARANDILLA	1,35
ELU			Linear Static	DEAD	1,35
ELU			Linear Static	CM-TRAMEX	1,35
ELU			Linear Static	SCU-BARANDILLA	1,5
ELU			Linear Static	SCU-TRAMEX	1,5
ELU			Linear Static	TEMPERATURA+	1,5
ELU			Linear Static	VCSC	1,5
ELS	Linear Add	No	Linear Static	CM-BARANDILLA	1,
ELS			Linear Static	CM-TRAMEX	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS			Linear Static	DEAD	1,
ELS			Linear Static	SCU-BARANDILLA	1,
ELS			Linear Static	SCU-TRAMEX	1,
ELS			Linear Static	TEMPERATURA-	1,

Table: Frame Loads - Distributed, Part 1 of 2

Table: Frame Loads - Distributed, Part 1 of 2

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
2	CM-TRAMEX	GLOBAL	Force	Gravity	RelDist	0,
2	SCU-TRAMEX	GLOBAL	Force	Gravity	RelDist	0,
11	CM-TRAMEX	GLOBAL	Force	Gravity	RelDist	0,
11	SCU-TRAMEX	GLOBAL	Force	Gravity	RelDist	0,

Table: Frame Loads - Distributed, Part 2 of 2

Table: Frame Loads - Distributed, Part 2 of 2

Frame	LoadPat	RelDistB	AbsDistA m	AbsDistB m	FOverLA KN/m	FOverLB KN/m
2	CM-TRAMEX	1,	0,	2,15	0,21	0,21
2	SCU-TRAMEX	1,	0,	2,15	2,5	2,5
11	CM-TRAMEX	1,	0,	2,15	0,21	0,21
11	SCU-TRAMEX	1,	0,	2,15	2,5	2,5

Table: Frame Loads - Temperature

Table: Frame Loads - Temperature

Frame	LoadPat	Type	Temp C	JtPattern
1	TEMPERATURA+	Temperature	41,6	None
1	TEMPERATURA-	Temperature	-13,13	None
2	TEMPERATURA+	Temperature	41,6	None
2	TEMPERATURA-	Temperature	-13,13	None
3	TEMPERATURA+	Temperature	41,6	None
3	TEMPERATURA-	Temperature	-13,13	None
4	TEMPERATURA+	Temperature	41,6	None
4	TEMPERATURA-	Temperature	-13,13	None
11	TEMPERATURA+	Temperature	41,6	None
11	TEMPERATURA-	Temperature	-13,13	None

Table: Joint Loads - Force, Part 1 of 2

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
2	CM-BARANDILLA	GLOBAL	0,	0,	-0,342	0,	0,
2	SCU-BARANDILLA	GLOBAL	0,	3,25	0,	-3,55	0,
2	VCSC	GLOBAL	0,	2,1	0,	-1,16	0,
3	CM-BARANDILLA	GLOBAL	0,	0,	-0,342	0,	0,
3	SCU-BARANDILLA	GLOBAL	0,	3,25	0,	-3,55	0,

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
3	VCSC	GLOBAL	0,	2,1	0,	-1,16	0,
6	CM-BARANDILLA	GLOBAL	0,	0,	-0,342	0,	0,
6	SCU-BARANDILLA	GLOBAL	0,	3,25	0,	-3,55	0,
6	VCSC	GLOBAL	0,	2,1	0,	-1,16	0,

Table: Joint Loads - Force, Part 2 of 2

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m
2	CM-BARANDILLA	0,
2	SCU-BARANDILLA	0,
2	VCSC	0,
3	CM-BARANDILLA	0,
3	SCU-BARANDILLA	0,
3	VCSC	0,
6	CM-BARANDILLA	0,
6	SCU-BARANDILLA	0,
6	VCSC	0,

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 1 of 2

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1	HE140B	Column	No Messages	0,447617	PMM
2	HE140B	Beam	No Messages	0,188731	PMM
3	HE140B	Column	No Messages	0,208172	PMM
4	HE140B	Column	No Messages	0,564322	PMM
11	HE140B	Beam	No Messages	0,174231	PMM

Table: Steel Design 1 - Summary Data - Eurocode 3-2005, Part 2 of 2

Table: Steel Design 1 - Summary Data - Eurocode 3-2005,
Part 2 of 2

Frame	Combo	Location m
1	ELU	0,
2	ELU	0,43
3	ELU	0,8
4	ELU	0,
11	ELU	0,86

APÉNDICE Nº 5: LISTADO DE CÁLCULO DE LA LOSA MICROPILOTADA

Table: Material Properties 01 - General

Table: Material Properties 01 - General					
Material	Type	SymType	TempDepen d	Color	GUID
4000Psi	Concrete	Isotropic	No	Red	
A416Gr270	Tendon	Uniaxial	No	Red	
A615Gr60	Rebar	Uniaxial	No	Magenta	
A992Fy50	Steel	Isotropic	No	Cyan	
HA-25	Concrete	Isotropic	No	Blue	
Rebar	Rebar	Uniaxial	No	Cyan	

Table: Material Properties 03b - Concrete Data, Part 1 of 2

Table: Material Properties 03b - Concrete Data, Part 1 of 2								
Material	Fc KN/m2	eFc KN/m2	LtWtConc	SSCurveOpt	SSHysType	SFc	SCap	FinalSlope
4000Psi	27579,03	27579,03	No	Mander	Takeda	0,002219	0,005	-0,1
HA-25	25000,	25000,	No	Mander	Takeda	0,00156	0,004	-0,1

Table: Material Properties 03b - Concrete Data, Part 2 of 2

Table: Material Properties 03b - Concrete Data, Part 2 of 2		
Material	FAngle Degrees	DAngle Degrees
4000Psi	0,	0,
HA-25	0,	0,

Table: Material Properties 03e - Rebar Data, Part 1 of 2

Table: Material Properties 03e - Rebar Data, Part 1 of 2								
Material	Fy KN/m2	Fu KN/m2	EffFy KN/m2	EffFu KN/m2	SSCurveOpt	SSHysType	SHard	SCap
A615Gr60	413685,47	620528,21	455054,02	682581,03	Simple	Kinematic	0,01	0,09
Rebar	400000,	440000,	400000,	440000,	Simple	Kinematic	0,01	0,09

Table: Material Properties 03e - Rebar Data, Part 2 of 2

Table: Material Properties 03e - Rebar Data, Part 2 of 2		
Material	FinalSlope	UseCTDef
A615Gr60	-0,1	No
Rebar	-0,1	No

Table: Load Pattern Definitions

Table: Load Pattern Definitions			
LoadPat	DesignType	SelfWtMult	AutoLoad
DEAD	Dead	1,	
CARGA	Live	0,	
PUNTUAL_1			

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
CARGA	Live	0,	
PUNTUAL_2			
CARGA	Live	0,	
PUNTUAL_3			
CARGA	Live	0,	
PUNTUAL_4			
CARGA	Live	0,	
PUNTUAL_5			
CARGA	Live	0,	
PUNTUAL_6			
CARGA	Live	0,	
PUNTUAL_7			
CARGA	Live	0,	
PUNTUAL_8			
CARGA	Live	0,	
PUNTUAL_9			
CARGA	Live	0,	
PUNTUAL_10			
CARGA	Live	0,	
PUNTUAL_11			
CARGA	Live	0,	
PUNTUAL_12			
CARGA	Live	0,	
PUNTUAL_13			
CARGA	Live	0,	
PUNTUAL_14			
CARGA	Live	0,	
PUNTUAL_15			
CARGA	Live	0,	
PUNTUAL_16			
CARGA	Live	0,	
PUNTUAL_17			
CARGA	Live	0,	
PUNTUAL_18			
CARGA	Live	0,	
PUNTUAL_19			
CARGA	Live	0,	
PUNTUAL_20			
CARGA	Live	0,	
PUNTUAL_21			
CARGA	Live	0,	
PUNTUAL_22			
CARGA	Live	0,	
PUNTUAL_23			
CARGA	Live	0,	
PUNTUAL_24			
CARGA	Live	0,	
PUNTUAL_25			
CARGA	Live	0,	
PUNTUAL_26			
CARGA	Live	0,	
PUNTUAL_27			
CARGA	Live	0,	
PUNTUAL_28			
CARGA	Live	0,	
PUNTUAL_29			
CARGA	Live	0,	
PUNTUAL_30			
CARGA	Live	0,	
PUNTUAL_31			

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
CARGA	Live	0,	
PUNTUAL_32			
CARGA	Live	0,	
PUNTUAL_33			
CARGA	Live	0,	
PUNTUAL_34			
CARGA	Live	0,	
PUNTUAL_35			
CARGA	Live	0,	
PUNTUAL_36			
CARGA	Live	0,	
PUNTUAL_37			
CARGA	Live	0,	
PUNTUAL_38			
CARGA	Live	0,	
PUNTUAL_39			
CARGA	Live	0,	
PUNTUAL_40			
CARGA	Live	0,	
PUNTUAL_41			
CARGA	Live	0,	
PUNTUAL_42			
CARGA	Live	0,	
PUNTUAL_43			
CARGA	Live	0,	
PUNTUAL_44			
CARGA	Live	0,	
PUNTUAL_45			
CARGA	Live	0,	
PUNTUAL_46			
CARGA	Live	0,	
PUNTUAL_47			
CARGA	Live	0,	
PUNTUAL_48			
CARGA	Live	0,	
PUNTUAL_49			
CARGA	Live	0,	
PUNTUAL_50			
CARGA	Live	0,	
PUNTUAL_51			
CARGA	Live	0,	
PUNTUAL_52			
CARGA	Live	0,	
PUNTUAL_53			
CARGA	Live	0,	
PUNTUAL_54			
CARGA	Live	0,	
PUNTUAL_55			
CARGA	Live	0,	
PUNTUAL_56			
CARGA	Live	0,	
PUNTUAL_57			
CARGA	Live	0,	
PUNTUAL_58			
CARGA	Live	0,	
PUNTUAL_59			
CARGA	Live	0,	
PUNTUAL_60			
CARGA	Live	0,	
PUNTUAL_61			

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
CARGA	Live	0,	
PUNTUAL_62			
CARGA	Live	0,	
PUNTUAL_63			
CARGA	Live	0,	
PUNTUAL_64			
CARGA	Live	0,	
PUNTUAL_65			
CARGA	Live	0,	
PUNTUAL_66			
CARGA	Live	0,	
PUNTUAL_67			
CARGA	Live	0,	
PUNTUAL_68			
CARGA	Live	0,	
PUNTUAL_69			
CARGA	Live	0,	
PUNTUAL_70			
CARGA	Live	0,	
PUNTUAL_71			
CARGA	Live	0,	
PUNTUAL_72			
CARGA	Live	0,	
PUNTUAL_73			
CARGA	Live	0,	
PUNTUAL_74			
CARGA	Live	0,	
PUNTUAL_75			
CARGA	Live	0,	
PUNTUAL_76			
CARGA	Live	0,	
PUNTUAL_77			
CARGA	Live	0,	
PUNTUAL_78			
CARGA	Live	0,	
PUNTUAL_79			
CARGA	Live	0,	
PUNTUAL_80			
CARGA	Live	0,	
PUNTUAL_81			
CARGA	Live	0,	
PUNTUAL_82			
CARGA	Live	0,	
PUNTUAL_83			
CARGA	Live	0,	
PUNTUAL_84			
CARGA	Live	0,	
PUNTUAL_85			
CARGA	Live	0,	
PUNTUAL_86			
CARGA	Live	0,	
PUNTUAL_87			
CARGA	Live	0,	
PUNTUAL_88			
CARGA	Live	0,	
PUNTUAL_89			
CARGA	Live	0,	
PUNTUAL_90			
CARGA	Live	0,	
PUNTUAL_91			

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
CARGA	Live	0,	
PUNTUAL_92			
CARGA	Live	0,	
PUNTUAL_93			
CARGA	Live	0,	
PUNTUAL_94			
CARGA	Live	0,	
PUNTUAL_95			
CARGA	Live	0,	
PUNTUAL_96			
CARGA	Live	0,	
PUNTUAL_97			
CARGA	Live	0,	
PUNTUAL_98			
CARGA	Live	0,	
PUNTUAL_99			
CARGA	Live	0,	
PUNTUAL_100			
CARGA	Live	0,	
PUNTUAL_101			
CARGA	Live	0,	
PUNTUAL_102			
CARGA	Live	0,	
PUNTUAL_103			
CARGA	Live	0,	
PUNTUAL_104			
CARGA	Live	0,	
PUNTUAL_105			
CARGA	Live	0,	
PUNTUAL_106			
CARGA	Live	0,	
PUNTUAL_107			
CARGA	Live	0,	
PUNTUAL_108			
CARGA	Live	0,	
PUNTUAL_109			
CARGA	Live	0,	
PUNTUAL_110			
CARGA	Live	0,	
PUNTUAL_111			
CARGA	Live	0,	
PUNTUAL_112			
CARGA	Live	0,	
PUNTUAL_113			
CARGA	Live	0,	
PUNTUAL_114			
CARGA	Live	0,	
PUNTUAL_115			
CARGA	Live	0,	
PUNTUAL_116			
CARGA	Live	0,	
PUNTUAL_117			
CARGA	Live	0,	
PUNTUAL_118			
CARGA	Live	0,	
PUNTUAL_119			
CARGA	Live	0,	
PUNTUAL_120			
CARGA	Live	0,	
PUNTUAL_121			

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
CARGA	Live	0,	
PUNTUAL_122			
CARGA	Live	0,	
PUNTUAL_123			
CARGA	Live	0,	
PUNTUAL_124			
CARGA	Live	0,	
PUNTUAL_125			
CARGA	Live	0,	
PUNTUAL_126			
CARGA	Live	0,	
PUNTUAL_127			
CARGA	Live	0,	
PUNTUAL_128			
CARGA	Live	0,	
PUNTUAL_129			
CARGA	Live	0,	
PUNTUAL_130			
CARGA	Live	0,	
PUNTUAL_131			
CARGA	Live	0,	
PUNTUAL_132			
CARGA	Live	0,	
PUNTUAL_133			
CARGA	Live	0,	
PUNTUAL_134			
CARGA	Live	0,	
PUNTUAL_135			
CARGA	Live	0,	
PUNTUAL_136			
CARGA	Live	0,	
PUNTUAL_137			
CARGA	Live	0,	
PUNTUAL_138			
CARGA	Live	0,	
PUNTUAL_139			
CARGA	Live	0,	
PUNTUAL_140			
CARGA	Live	0,	
PUNTUAL_141			
CARGA	Live	0,	
PUNTUAL_142			
CARGA	Live	0,	
PUNTUAL_143			
CARGA	Live	0,	
PUNTUAL_144			
CARGA	Live	0,	
PUNTUAL_145			
CARGA	Live	0,	
PUNTUAL_146			
CARGA	Live	0,	
PUNTUAL_147			
CARGA	Live	0,	
PUNTUAL_148			
CARGA	Live	0,	
PUNTUAL_149			
CARGA	Live	0,	
PUNTUAL_150			
CARGA	Live	0,	
PUNTUAL_151			

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
CARGA	Live	0,	
PUNTUAL_152			
CARGA	Live	0,	
PUNTUAL_153			
CARGA	Live	0,	
PUNTUAL_154			
CARGA	Live	0,	
PUNTUAL_155			
CARGA	Live	0,	
PUNTUAL_156			
CARGA	Live	0,	
PUNTUAL_157			
CARGA	Live	0,	
PUNTUAL_158			
CARGA	Live	0,	
PUNTUAL_159			
CARGA	Live	0,	
PUNTUAL_160			
CARGA	Live	0,	
PUNTUAL_161			
CARGA	Live	0,	
PUNTUAL_162			
CARGA	Live	0,	
PUNTUAL_163			
CARGA	Live	0,	
PUNTUAL_164			
CARGA	Live	0,	
PUNTUAL_165			
CARGA	Live	0,	
PUNTUAL_166			
CARGA	Live	0,	
PUNTUAL_167			
CARGA	Live	0,	
PUNTUAL_168			
CARGA	Live	0,	
PUNTUAL_169			
CARGA	Live	0,	
PUNTUAL_170			
CARGA	Live	0,	
PUNTUAL_171			
CARGA	Live	0,	
PUNTUAL_172			
CARGA	Live	0,	
PUNTUAL_173			
CARGA	Live	0,	
PUNTUAL_174			
CARGA	Live	0,	
PUNTUAL_175			
CARGA	Live	0,	
PUNTUAL_176			
CARGA	Live	0,	
PUNTUAL_177			
CARGA	Live	0,	
PUNTUAL_178			
CARGA	Live	0,	
PUNTUAL_179			
CARGA	Live	0,	
PUNTUAL_180			
CARGA	Live	0,	
PUNTUAL_181			

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
CARGA	Live	0,	
PUNTUAL_182			
CARGA	Live	0,	
PUNTUAL_183			
CARGA	Live	0,	
PUNTUAL_184			
CARGA	Live	0,	
PUNTUAL_185			
CARGA	Live	0,	
PUNTUAL_186			
CARGA	Live	0,	
PUNTUAL_187			
CARGA	Live	0,	
PUNTUAL_188			
CARGA	Live	0,	
PUNTUAL_189			

Table: Load Case Definitions

Case	Type
DEAD	LinStatic
MODAL	LinModal
CARGA	LinStatic
PUNTUAL_1	
CARGA	LinStatic
PUNTUAL_2	
CARGA	LinStatic
PUNTUAL_3	
CARGA	LinStatic
PUNTUAL_4	
CARGA	LinStatic
PUNTUAL_5	
CARGA	LinStatic
PUNTUAL_6	
CARGA	LinStatic
PUNTUAL_7	
CARGA	LinStatic
PUNTUAL_8	
CARGA	LinStatic
PUNTUAL_9	
CARGA	LinStatic
PUNTUAL_10	
CARGA	LinStatic
PUNTUAL_11	
CARGA	LinStatic
PUNTUAL_12	
CARGA	LinStatic
PUNTUAL_13	
CARGA	LinStatic
PUNTUAL_14	

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_1 5	LinStatic
CARGA PUNTUAL_1 6	LinStatic
CARGA PUNTUAL_1 7	LinStatic
CARGA PUNTUAL_1 8	LinStatic
CARGA PUNTUAL_1 9	LinStatic
CARGA PUNTUAL_2 0	LinStatic
CARGA PUNTUAL_2 1	LinStatic
CARGA PUNTUAL_2 2	LinStatic
CARGA PUNTUAL_2 3	LinStatic
CARGA PUNTUAL_2 4	LinStatic
CARGA PUNTUAL_2 5	LinStatic
CARGA PUNTUAL_2 6	LinStatic
CARGA PUNTUAL_2 7	LinStatic
CARGA PUNTUAL_2 8	LinStatic
CARGA PUNTUAL_2 9	LinStatic
CARGA PUNTUAL_3 0	LinStatic
CARGA PUNTUAL_3 1	LinStatic
CARGA PUNTUAL_3 2	LinStatic
CARGA PUNTUAL_3 3	LinStatic
CARGA PUNTUAL_3 4	LinStatic

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_3 5	LinStatic
CARGA PUNTUAL_3 6	LinStatic
CARGA PUNTUAL_3 7	LinStatic
CARGA PUNTUAL_3 8	LinStatic
CARGA PUNTUAL_3 9	LinStatic
CARGA PUNTUAL_4 0	LinStatic
CARGA PUNTUAL_4 1	LinStatic
CARGA PUNTUAL_4 2	LinStatic
CARGA PUNTUAL_4 3	LinStatic
CARGA PUNTUAL_4 4	LinStatic
CARGA PUNTUAL_4 5	LinStatic
CARGA PUNTUAL_4 6	LinStatic
CARGA PUNTUAL_4 7	LinStatic
CARGA PUNTUAL_4 8	LinStatic
CARGA PUNTUAL_4 9	LinStatic
CARGA PUNTUAL_5 0	LinStatic
CARGA PUNTUAL_5 1	LinStatic
CARGA PUNTUAL_5 2	LinStatic
CARGA PUNTUAL_5 3	LinStatic
CARGA PUNTUAL_5 4	LinStatic

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_5 5	LinStatic
CARGA PUNTUAL_5 6	LinStatic
CARGA PUNTUAL_5 7	LinStatic
CARGA PUNTUAL_5 8	LinStatic
CARGA PUNTUAL_5 9	LinStatic
CARGA PUNTUAL_6 0	LinStatic
CARGA PUNTUAL_6 1	LinStatic
CARGA PUNTUAL_6 2	LinStatic
CARGA PUNTUAL_6 3	LinStatic
CARGA PUNTUAL_6 4	LinStatic
CARGA PUNTUAL_6 5	LinStatic
CARGA PUNTUAL_6 6	LinStatic
CARGA PUNTUAL_6 7	LinStatic
CARGA PUNTUAL_6 8	LinStatic
CARGA PUNTUAL_6 9	LinStatic
CARGA PUNTUAL_7 0	LinStatic
CARGA PUNTUAL_7 1	LinStatic
CARGA PUNTUAL_7 2	LinStatic
CARGA PUNTUAL_7 3	LinStatic
CARGA PUNTUAL_7 4	LinStatic

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_7 5	LinStatic
CARGA PUNTUAL_7 6	LinStatic
CARGA PUNTUAL_7 7	LinStatic
CARGA PUNTUAL_7 8	LinStatic
CARGA PUNTUAL_7 9	LinStatic
CARGA PUNTUAL_8 0	LinStatic
CARGA PUNTUAL_8 1	LinStatic
CARGA PUNTUAL_8 2	LinStatic
CARGA PUNTUAL_8 3	LinStatic
CARGA PUNTUAL_8 4	LinStatic
CARGA PUNTUAL_8 5	LinStatic
CARGA PUNTUAL_8 6	LinStatic
CARGA PUNTUAL_8 7	LinStatic
CARGA PUNTUAL_8 8	LinStatic
CARGA PUNTUAL_8 9	LinStatic
CARGA PUNTUAL_9 0	LinStatic
CARGA PUNTUAL_9 1	LinStatic
CARGA PUNTUAL_9 2	LinStatic
CARGA PUNTUAL_9 3	LinStatic
CARGA PUNTUAL_9 4	LinStatic

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_9 5	LinStatic
CARGA PUNTUAL_9 6	LinStatic
CARGA PUNTUAL_9 7	LinStatic
CARGA PUNTUAL_9 8	LinStatic
CARGA PUNTUAL_9 9	LinStatic
CARGA PUNTUAL_1 00	LinStatic
CARGA PUNTUAL_1 01	LinStatic
CARGA PUNTUAL_1 02	LinStatic
CARGA PUNTUAL_1 03	LinStatic
CARGA PUNTUAL_1 04	LinStatic
CARGA PUNTUAL_1 05	LinStatic
CARGA PUNTUAL_1 06	LinStatic
CARGA PUNTUAL_1 07	LinStatic
CARGA PUNTUAL_1 08	LinStatic
CARGA PUNTUAL_1 09	LinStatic
CARGA PUNTUAL_1 10	LinStatic
CARGA PUNTUAL_1 11	LinStatic
CARGA PUNTUAL_1 12	LinStatic
CARGA PUNTUAL_1 13	LinStatic
CARGA PUNTUAL_1 14	LinStatic

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_1 15	LinStatic
CARGA PUNTUAL_1 16	LinStatic
CARGA PUNTUAL_1 17	LinStatic
CARGA PUNTUAL_1 18	LinStatic
CARGA PUNTUAL_1 19	LinStatic
CARGA PUNTUAL_1 20	LinStatic
CARGA PUNTUAL_1 21	LinStatic
CARGA PUNTUAL_1 22	LinStatic
CARGA PUNTUAL_1 23	LinStatic
CARGA PUNTUAL_1 24	LinStatic
CARGA PUNTUAL_1 25	LinStatic
CARGA PUNTUAL_1 26	LinStatic
CARGA PUNTUAL_1 27	LinStatic
CARGA PUNTUAL_1 28	LinStatic
CARGA PUNTUAL_1 29	LinStatic
CARGA PUNTUAL_1 30	LinStatic
CARGA PUNTUAL_1 31	LinStatic
CARGA PUNTUAL_1 32	LinStatic
CARGA PUNTUAL_1 33	LinStatic
CARGA PUNTUAL_1 34	LinStatic

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_1 35	LinStatic
CARGA PUNTUAL_1 36	LinStatic
CARGA PUNTUAL_1 37	LinStatic
CARGA PUNTUAL_1 38	LinStatic
CARGA PUNTUAL_1 39	LinStatic
CARGA PUNTUAL_1 40	LinStatic
CARGA PUNTUAL_1 41	LinStatic
CARGA PUNTUAL_1 42	LinStatic
CARGA PUNTUAL_1 43	LinStatic
CARGA PUNTUAL_1 44	LinStatic
CARGA PUNTUAL_1 45	LinStatic
CARGA PUNTUAL_1 46	LinStatic
CARGA PUNTUAL_1 47	LinStatic
CARGA PUNTUAL_1 48	LinStatic
CARGA PUNTUAL_1 49	LinStatic
CARGA PUNTUAL_1 50	LinStatic
CARGA PUNTUAL_1 51	LinStatic
CARGA PUNTUAL_1 52	LinStatic
CARGA PUNTUAL_1 53	LinStatic
CARGA PUNTUAL_1 54	LinStatic

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_1 55	LinStatic
CARGA PUNTUAL_1 56	LinStatic
CARGA PUNTUAL_1 57	LinStatic
CARGA PUNTUAL_1 58	LinStatic
CARGA PUNTUAL_1 59	LinStatic
CARGA PUNTUAL_1 60	LinStatic
CARGA PUNTUAL_1 61	LinStatic
CARGA PUNTUAL_1 62	LinStatic
CARGA PUNTUAL_1 63	LinStatic
CARGA PUNTUAL_1 64	LinStatic
CARGA PUNTUAL_1 65	LinStatic
CARGA PUNTUAL_1 66	LinStatic
CARGA PUNTUAL_1 67	LinStatic
CARGA PUNTUAL_1 68	LinStatic
CARGA PUNTUAL_1 69	LinStatic
CARGA PUNTUAL_1 70	LinStatic
CARGA PUNTUAL_1 71	LinStatic
CARGA PUNTUAL_1 72	LinStatic
CARGA PUNTUAL_1 73	LinStatic
CARGA PUNTUAL_1 74	LinStatic

Table: Load Case Definitions

Case	Type
CARGA PUNTUAL_1 75	LinStatic
CARGA PUNTUAL_1 76	LinStatic
CARGA PUNTUAL_1 77	LinStatic
CARGA PUNTUAL_1 78	LinStatic
CARGA PUNTUAL_1 79	LinStatic
CARGA PUNTUAL_1 80	LinStatic
CARGA PUNTUAL_1 81	LinStatic
CARGA PUNTUAL_1 82	LinStatic
CARGA PUNTUAL_1 83	LinStatic
CARGA PUNTUAL_1 84	LinStatic
CARGA PUNTUAL_1 85	LinStatic
CARGA PUNTUAL_1 86	LinStatic
CARGA PUNTUAL_1 87	LinStatic
CARGA PUNTUAL_1 88	LinStatic
CARGA PUNTUAL_1 89	LinStatic

Table: Combination Definitions

Table: Combination Definitions					
ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-1	Linear Add	No	Linear Static	DEAD	1,
ELS-1			Linear Static	CARGA PUNTUAL_1	1,
ELS-2	Linear Add	No	Linear Static	DEAD	1,
ELS-2			Linear Static	CARGA PUNTUAL_2	1,
ELS-3	Linear Add	No	Linear Static	DEAD	1,
ELS-3			Linear Static	CARGA PUNTUAL_3	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-4	Linear Add	No	Linear Static	DEAD	1,
ELS-4			Linear Static	CARGA PUNTUAL_4	1,
ELS-5	Linear Add	No	Linear Static	DEAD	1,
ELS-5			Linear Static	CARGA PUNTUAL_5	1,
ELS-6	Linear Add	No	Linear Static	DEAD	1,
ELS-6			Linear Static	CARGA PUNTUAL_6	1,
ELS-7	Linear Add	No	Linear Static	DEAD	1,
ELS-7			Linear Static	CARGA PUNTUAL_7	1,
ELS-8	Linear Add	No	Linear Static	DEAD	1,
ELS-8			Linear Static	CARGA PUNTUAL_8	1,
ELS-9	Linear Add	No	Linear Static	DEAD	1,
ELS-9			Linear Static	CARGA PUNTUAL_9	1,
ELS-10	Linear Add	No	Linear Static	DEAD	1,
ELS-10			Linear Static	CARGA PUNTUAL_10	1,
ELS-11	Linear Add	No	Linear Static	DEAD	1,
ELS-11			Linear Static	CARGA PUNTUAL_11	1,
ELS-12	Linear Add	No	Linear Static	DEAD	1,
ELS-12			Linear Static	CARGA PUNTUAL_12	1,
ELS-13	Linear Add	No	Linear Static	DEAD	1,
ELS-13			Linear Static	CARGA PUNTUAL_13	1,
ELS-14	Linear Add	No	Linear Static	DEAD	1,
ELS-14			Linear Static	CARGA PUNTUAL_14	1,
ELS-15	Linear Add	No	Linear Static	DEAD	1,
ELS-15			Linear Static	CARGA PUNTUAL_15	1,
ELS-16	Linear Add	No	Linear Static	DEAD	1,
ELS-16			Linear Static	CARGA PUNTUAL_16	1,
ELS-17	Linear Add	No	Linear Static	DEAD	1,
ELS-17			Linear Static	CARGA PUNTUAL_17	1,
ELS-18	Linear Add	No	Linear Static	DEAD	1,
ELS-18			Linear Static	CARGA PUNTUAL_18	1,
ELS-19	Linear Add	No	Linear Static	DEAD	1,
ELS-19			Linear Static	CARGA PUNTUAL_19	1,
ELS-20	Linear Add	No	Linear Static	DEAD	1,
ELS-20			Linear Static	CARGA PUNTUAL_20	1,
ELS-21	Linear Add	No	Linear Static	DEAD	1,
ELS-21			Linear Static	CARGA PUNTUAL_21	1,
ELS-22	Linear Add	No	Linear Static	DEAD	1,
ELS-22			Linear Static	CARGA PUNTUAL_22	1,
ELS-23	Linear Add	No	Linear Static	DEAD	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-23			Linear Static	CARGA PUNTUAL_23	1,
ELS-24	Linear Add	No	Linear Static	DEAD	1,
ELS-24			Linear Static	CARGA PUNTUAL_24	1,
ELS-25	Linear Add	No	Linear Static	DEAD	1,
ELS-25			Linear Static	CARGA PUNTUAL_25	1,
ELS-26	Linear Add	No	Linear Static	DEAD	1,
ELS-26			Linear Static	CARGA PUNTUAL_26	1,
ELS-27	Linear Add	No	Linear Static	DEAD	1,
ELS-27			Linear Static	CARGA PUNTUAL_27	1,
ELS-28	Linear Add	No	Linear Static	DEAD	1,
ELS-28			Linear Static	CARGA PUNTUAL_28	1,
ELS-29	Linear Add	No	Linear Static	DEAD	1,
ELS-29			Linear Static	CARGA PUNTUAL_29	1,
ELS-30	Linear Add	No	Linear Static	DEAD	1,
ELS-30			Linear Static	CARGA PUNTUAL_30	1,
ELS-31	Linear Add	No	Linear Static	DEAD	1,
ELS-31			Linear Static	CARGA PUNTUAL_31	1,
ELS-32	Linear Add	No	Linear Static	DEAD	1,
ELS-32			Linear Static	CARGA PUNTUAL_32	1,
ELS-33	Linear Add	No	Linear Static	DEAD	1,
ELS-33			Linear Static	CARGA PUNTUAL_33	1,
ELS-34	Linear Add	No	Linear Static	DEAD	1,
ELS-34			Linear Static	CARGA PUNTUAL_34	1,
ELS-35	Linear Add	No	Linear Static	DEAD	1,
ELS-35			Linear Static	CARGA PUNTUAL_35	1,
ELS-36	Linear Add	No	Linear Static	DEAD	1,
ELS-36			Linear Static	CARGA PUNTUAL_36	1,
ELS-37	Linear Add	No	Linear Static	DEAD	1,
ELS-37			Linear Static	CARGA PUNTUAL_37	1,
ELS-38	Linear Add	No	Linear Static	DEAD	1,
ELS-38			Linear Static	CARGA PUNTUAL_38	1,
ELS-39	Linear Add	No	Linear Static	DEAD	1,
ELS-39			Linear Static	CARGA PUNTUAL_39	1,
ELS-40	Linear Add	No	Linear Static	DEAD	1,
ELS-40			Linear Static	CARGA PUNTUAL_40	1,
ELS-41	Linear Add	No	Linear Static	DEAD	1,
ELS-41			Linear Static	CARGA PUNTUAL_41	1,
ELS-42	Linear Add	No	Linear Static	DEAD	1,
ELS-42			Linear Static	CARGA PUNTUAL_42	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-43	Linear Add	No	Linear Static	DEAD	1,
ELS-43			Linear Static	CARGA PUNTUAL_43	1,
ELS-44	Linear Add	No	Linear Static	DEAD	1,
ELS-44			Linear Static	CARGA PUNTUAL_44	1,
ELS-45	Linear Add	No	Linear Static	DEAD	1,
ELS-45			Linear Static	CARGA PUNTUAL_45	1,
ELS-46	Linear Add	No	Linear Static	DEAD	1,
ELS-46			Linear Static	CARGA PUNTUAL_46	1,
ELS-47	Linear Add	No	Linear Static	DEAD	1,
ELS-47			Linear Static	CARGA PUNTUAL_47	1,
ELS-48	Linear Add	No	Linear Static	DEAD	1,
ELS-48			Linear Static	CARGA PUNTUAL_48	1,
ELS-49	Linear Add	No	Linear Static	DEAD	1,
ELS-49			Linear Static	CARGA PUNTUAL_49	1,
ELS-50	Linear Add	No	Linear Static	DEAD	1,
ELS-50			Linear Static	CARGA PUNTUAL_50	1,
ELS-51	Linear Add	No	Linear Static	DEAD	1,
ELS-51			Linear Static	CARGA PUNTUAL_51	1,
ELS-52	Linear Add	No	Linear Static	DEAD	1,
ELS-52			Linear Static	CARGA PUNTUAL_52	1,
ELS-53	Linear Add	No	Linear Static	DEAD	1,
ELS-53			Linear Static	CARGA PUNTUAL_53	1,
ELS-54	Linear Add	No	Linear Static	DEAD	1,
ELS-54			Linear Static	CARGA PUNTUAL_54	1,
ELS-55	Linear Add	No	Linear Static	DEAD	1,
ELS-55			Linear Static	CARGA PUNTUAL_55	1,
ELS-56	Linear Add	No	Linear Static	DEAD	1,
ELS-56			Linear Static	CARGA PUNTUAL_56	1,
ELS-57	Linear Add	No	Linear Static	DEAD	1,
ELS-57			Linear Static	CARGA PUNTUAL_57	1,
ELS-58	Linear Add	No	Linear Static	DEAD	1,
ELS-58			Linear Static	CARGA PUNTUAL_58	1,
ELS-59	Linear Add	No	Linear Static	DEAD	1,
ELS-59			Linear Static	CARGA PUNTUAL_59	1,
ELS-60	Linear Add	No	Linear Static	DEAD	1,
ELS-60			Linear Static	CARGA PUNTUAL_60	1,
ELS-61	Linear Add	No	Linear Static	DEAD	1,
ELS-61			Linear Static	CARGA PUNTUAL_61	1,
ELS-62	Linear Add	No	Linear Static	DEAD	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-62			Linear Static	CARGA PUNTUAL_62	1,
ELS-63	Linear Add	No	Linear Static	DEAD	1,
ELS-63			Linear Static	CARGA PUNTUAL_63	1,
ELS-64	Linear Add	No	Linear Static	DEAD	1,
ELS-64			Linear Static	CARGA PUNTUAL_64	1,
ELS-65	Linear Add	No	Linear Static	DEAD	1,
ELS-65			Linear Static	CARGA PUNTUAL_65	1,
ELS-66	Linear Add	No	Linear Static	DEAD	1,
ELS-66			Linear Static	CARGA PUNTUAL_66	1,
ELS-67	Linear Add	No	Linear Static	DEAD	1,
ELS-67			Linear Static	CARGA PUNTUAL_67	1,
ELS-68	Linear Add	No	Linear Static	DEAD	1,
ELS-68			Linear Static	CARGA PUNTUAL_68	1,
ELS-69	Linear Add	No	Linear Static	DEAD	1,
ELS-69			Linear Static	CARGA PUNTUAL_69	1,
ELS-70	Linear Add	No	Linear Static	DEAD	1,
ELS-70			Linear Static	CARGA PUNTUAL_70	1,
ELS-71	Linear Add	No	Linear Static	DEAD	1,
ELS-71			Linear Static	CARGA PUNTUAL_71	1,
ELS-72	Linear Add	No	Linear Static	DEAD	1,
ELS-72			Linear Static	CARGA PUNTUAL_72	1,
ELS-73	Linear Add	No	Linear Static	DEAD	1,
ELS-73			Linear Static	CARGA PUNTUAL_73	1,
ELS-74	Linear Add	No	Linear Static	DEAD	1,
ELS-74			Linear Static	CARGA PUNTUAL_74	1,
ELS-75	Linear Add	No	Linear Static	DEAD	1,
ELS-75			Linear Static	CARGA PUNTUAL_75	1,
ELS-76	Linear Add	No	Linear Static	DEAD	1,
ELS-76			Linear Static	CARGA PUNTUAL_76	1,
ELS-77	Linear Add	No	Linear Static	DEAD	1,
ELS-77			Linear Static	CARGA PUNTUAL_77	1,
ELS-78	Linear Add	No	Linear Static	DEAD	1,
ELS-78			Linear Static	CARGA PUNTUAL_78	1,
ELS-79	Linear Add	No	Linear Static	DEAD	1,
ELS-79			Linear Static	CARGA PUNTUAL_79	1,
ELS-80	Linear Add	No	Linear Static	DEAD	1,
ELS-80			Linear Static	CARGA PUNTUAL_80	1,
ELS-81	Linear Add	No	Linear Static	DEAD	1,
ELS-81			Linear Static	CARGA PUNTUAL_81	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-82	Linear Add	No	Linear Static	DEAD	1,
ELS-82			Linear Static	CARGA PUNTUAL_82	1,
ELS-83	Linear Add	No	Linear Static	DEAD	1,
ELS-83			Linear Static	CARGA PUNTUAL_83	1,
ELS-84	Linear Add	No	Linear Static	DEAD	1,
ELS-84			Linear Static	CARGA PUNTUAL_84	1,
ELS-85	Linear Add	No	Linear Static	DEAD	1,
ELS-85			Linear Static	CARGA PUNTUAL_85	1,
ELS-86	Linear Add	No	Linear Static	DEAD	1,
ELS-86			Linear Static	CARGA PUNTUAL_86	1,
ELS-87	Linear Add	No	Linear Static	DEAD	1,
ELS-87			Linear Static	CARGA PUNTUAL_87	1,
ELS-88	Linear Add	No	Linear Static	DEAD	1,
ELS-88			Linear Static	CARGA PUNTUAL_88	1,
ELS-89	Linear Add	No	Linear Static	DEAD	1,
ELS-89			Linear Static	CARGA PUNTUAL_89	1,
ELS-90	Linear Add	No	Linear Static	DEAD	1,
ELS-90			Linear Static	CARGA PUNTUAL_90	1,
ELS-91	Linear Add	No	Linear Static	DEAD	1,
ELS-91			Linear Static	CARGA PUNTUAL_91	1,
ELS-92	Linear Add	No	Linear Static	DEAD	1,
ELS-92			Linear Static	CARGA PUNTUAL_92	1,
ELS-93	Linear Add	No	Linear Static	DEAD	1,
ELS-93			Linear Static	CARGA PUNTUAL_93	1,
ELS-94	Linear Add	No	Linear Static	DEAD	1,
ELS-94			Linear Static	CARGA PUNTUAL_94	1,
ELS-95	Linear Add	No	Linear Static	DEAD	1,
ELS-95			Linear Static	CARGA PUNTUAL_95	1,
ELS-96	Linear Add	No	Linear Static	DEAD	1,
ELS-96			Linear Static	CARGA PUNTUAL_96	1,
ELS-97	Linear Add	No	Linear Static	DEAD	1,
ELS-97			Linear Static	CARGA PUNTUAL_97	1,
ELS-98	Linear Add	No	Linear Static	DEAD	1,
ELS-98			Linear Static	CARGA PUNTUAL_98	1,
ELS-99	Linear Add	No	Linear Static	DEAD	1,
ELS-99			Linear Static	CARGA PUNTUAL_99	1,
ELS-100	Linear Add	No	Linear Static	DEAD	1,
ELS-100			Linear Static	CARGA PUNTUAL_100	1,
ELS-101	Linear Add	No	Linear Static	DEAD	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-101	Linear Add	No	Linear Static	CARGA	1,
ELS-102			Linear Static	PUNTUAL_101	1,
ELS-102	Linear Add	No	Linear Static	DEAD	1,
ELS-103			Linear Static	CARGA	1,
ELS-103	Linear Add	No	Linear Static	PUNTUAL_102	1,
ELS-104			Linear Static	DEAD	1,
ELS-104	Linear Add	No	Linear Static	CARGA	1,
ELS-105			Linear Static	PUNTUAL_103	1,
ELS-105	Linear Add	No	Linear Static	DEAD	1,
ELS-106			Linear Static	CARGA	1,
ELS-106	Linear Add	No	Linear Static	PUNTUAL_104	1,
ELS-107			Linear Static	DEAD	1,
ELS-107	Linear Add	No	Linear Static	CARGA	1,
ELS-108			Linear Static	PUNTUAL_105	1,
ELS-108	Linear Add	No	Linear Static	DEAD	1,
ELS-109			Linear Static	CARGA	1,
ELS-109	Linear Add	No	Linear Static	PUNTUAL_106	1,
ELS-110			Linear Static	DEAD	1,
ELS-110	Linear Add	No	Linear Static	CARGA	1,
ELS-111			Linear Static	PUNTUAL_107	1,
ELS-111	Linear Add	No	Linear Static	DEAD	1,
ELS-112			Linear Static	CARGA	1,
ELS-112	Linear Add	No	Linear Static	PUNTUAL_108	1,
ELS-113			Linear Static	DEAD	1,
ELS-113	Linear Add	No	Linear Static	CARGA	1,
ELS-114			Linear Static	PUNTUAL_109	1,
ELS-114	Linear Add	No	Linear Static	DEAD	1,
ELS-115			Linear Static	CARGA	1,
ELS-115	Linear Add	No	Linear Static	PUNTUAL_110	1,
ELS-116			Linear Static	DEAD	1,
ELS-116	Linear Add	No	Linear Static	CARGA	1,
ELS-117			Linear Static	PUNTUAL_111	1,
ELS-117	Linear Add	No	Linear Static	DEAD	1,
ELS-118			Linear Static	CARGA	1,
ELS-118	Linear Add	No	Linear Static	PUNTUAL_112	1,
ELS-119			Linear Static	DEAD	1,
ELS-119	Linear Add	No	Linear Static	CARGA	1,
ELS-120			Linear Static	PUNTUAL_113	1,
ELS-120	Linear Add	No	Linear Static	DEAD	1,
ELS-120			Linear Static	CARGA	1,
ELS-120	Linear Add	No	Linear Static	PUNTUAL_114	1,
ELS-120			Linear Static	DEAD	1,
ELS-120	Linear Add	No	Linear Static	CARGA	1,
ELS-120			Linear Static	PUNTUAL_115	1,
ELS-120	Linear Add	No	Linear Static	DEAD	1,
ELS-120			Linear Static	CARGA	1,
ELS-120	Linear Add	No	Linear Static	PUNTUAL_116	1,
ELS-120			Linear Static	DEAD	1,
ELS-120	Linear Add	No	Linear Static	CARGA	1,
ELS-120			Linear Static	PUNTUAL_117	1,
ELS-120	Linear Add	No	Linear Static	DEAD	1,
ELS-120			Linear Static	CARGA	1,
ELS-120	Linear Add	No	Linear Static	PUNTUAL_118	1,
ELS-120			Linear Static	DEAD	1,
ELS-120	Linear Add	No	Linear Static	CARGA	1,
ELS-120			Linear Static	PUNTUAL_119	1,
ELS-120	Linear Add	No	Linear Static	DEAD	1,
ELS-120			Linear Static	CARGA	1,
ELS-120	Linear Add	No	Linear Static	PUNTUAL_120	1,
ELS-120			Linear Static	DEAD	1,
ELS-120	Linear Add	No	Linear Static	CARGA	1,
ELS-120			Linear Static	PUNTUAL_120	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-121	Linear Add	No	Linear Static	DEAD	1,
ELS-121			Linear Static	CARGA	1,
				PUNTUAL_121	
ELS-122	Linear Add	No	Linear Static	DEAD	1,
ELS-122			Linear Static	CARGA	1,
				PUNTUAL_122	
ELS-123	Linear Add	No	Linear Static	DEAD	1,
ELS-123			Linear Static	CARGA	1,
				PUNTUAL_123	
ELS-124	Linear Add	No	Linear Static	DEAD	1,
ELS-124			Linear Static	CARGA	1,
				PUNTUAL_124	
ELS-125	Linear Add	No	Linear Static	DEAD	1,
ELS-125			Linear Static	CARGA	1,
				PUNTUAL_125	
ELS-126	Linear Add	No	Linear Static	DEAD	1,
ELS-126			Linear Static	CARGA	1,
				PUNTUAL_126	
ELS-127	Linear Add	No	Linear Static	DEAD	1,
ELS-127			Linear Static	CARGA	1,
				PUNTUAL_127	
ELS-128	Linear Add	No	Linear Static	DEAD	1,
ELS-128			Linear Static	CARGA	1,
				PUNTUAL_128	
ELS-129	Linear Add	No	Linear Static	DEAD	1,
ELS-129			Linear Static	CARGA	1,
				PUNTUAL_129	
ELS-130	Linear Add	No	Linear Static	DEAD	1,
ELS-130			Linear Static	CARGA	1,
				PUNTUAL_130	
ELS-131	Linear Add	No	Linear Static	DEAD	1,
ELS-131			Linear Static	CARGA	1,
				PUNTUAL_131	
ELS-132	Linear Add	No	Linear Static	DEAD	1,
ELS-132			Linear Static	CARGA	1,
				PUNTUAL_132	
ELS-133	Linear Add	No	Linear Static	DEAD	1,
ELS-133			Linear Static	CARGA	1,
				PUNTUAL_133	
ELS-134	Linear Add	No	Linear Static	DEAD	1,
ELS-134			Linear Static	CARGA	1,
				PUNTUAL_134	
ELS-135	Linear Add	No	Linear Static	DEAD	1,
ELS-135			Linear Static	CARGA	1,
				PUNTUAL_135	
ELS-136	Linear Add	No	Linear Static	DEAD	1,
ELS-136			Linear Static	CARGA	1,
				PUNTUAL_136	
ELS-137	Linear Add	No	Linear Static	DEAD	1,
ELS-137			Linear Static	CARGA	1,
				PUNTUAL_137	
ELS-138	Linear Add	No	Linear Static	DEAD	1,
ELS-138			Linear Static	CARGA	1,
				PUNTUAL_138	
ELS-139	Linear Add	No	Linear Static	DEAD	1,
ELS-139			Linear Static	CARGA	1,
				PUNTUAL_139	
ELS-140	Linear Add	No	Linear Static	DEAD	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-140	Linear Add	No	Linear Static	CARGA	1,
ELS-141			Linear Static	PUNTUAL_140	1,
ELS-141	Linear Add	No	Linear Static	DEAD	1,
ELS-142			Linear Static	CARGA	1,
ELS-142	Linear Add	No	Linear Static	PUNTUAL_141	1,
ELS-142			Linear Static	DEAD	1,
ELS-142	Linear Add	No	Linear Static	CARGA	1,
ELS-143			Linear Static	PUNTUAL_142	1,
ELS-143	Linear Add	No	Linear Static	DEAD	1,
ELS-143			Linear Static	CARGA	1,
ELS-144	Linear Add	No	Linear Static	PUNTUAL_143	1,
ELS-144			Linear Static	DEAD	1,
ELS-144	Linear Add	No	Linear Static	CARGA	1,
ELS-145			Linear Static	PUNTUAL_144	1,
ELS-145	Linear Add	No	Linear Static	DEAD	1,
ELS-145			Linear Static	CARGA	1,
ELS-146	Linear Add	No	Linear Static	PUNTUAL_145	1,
ELS-146			Linear Static	DEAD	1,
ELS-146	Linear Add	No	Linear Static	CARGA	1,
ELS-147			Linear Static	PUNTUAL_146	1,
ELS-147	Linear Add	No	Linear Static	DEAD	1,
ELS-147			Linear Static	CARGA	1,
ELS-148	Linear Add	No	Linear Static	PUNTUAL_147	1,
ELS-148			Linear Static	DEAD	1,
ELS-148	Linear Add	No	Linear Static	CARGA	1,
ELS-149			Linear Static	PUNTUAL_148	1,
ELS-149	Linear Add	No	Linear Static	DEAD	1,
ELS-149			Linear Static	CARGA	1,
ELS-150	Linear Add	No	Linear Static	PUNTUAL_149	1,
ELS-150			Linear Static	DEAD	1,
ELS-150	Linear Add	No	Linear Static	CARGA	1,
ELS-151			Linear Static	PUNTUAL_150	1,
ELS-151	Linear Add	No	Linear Static	DEAD	1,
ELS-151			Linear Static	CARGA	1,
ELS-152	Linear Add	No	Linear Static	PUNTUAL_151	1,
ELS-152			Linear Static	DEAD	1,
ELS-152	Linear Add	No	Linear Static	CARGA	1,
ELS-153			Linear Static	PUNTUAL_152	1,
ELS-153	Linear Add	No	Linear Static	DEAD	1,
ELS-153			Linear Static	CARGA	1,
ELS-154	Linear Add	No	Linear Static	PUNTUAL_153	1,
ELS-154			Linear Static	DEAD	1,
ELS-154	Linear Add	No	Linear Static	CARGA	1,
ELS-155			Linear Static	PUNTUAL_154	1,
ELS-155	Linear Add	No	Linear Static	DEAD	1,
ELS-155			Linear Static	CARGA	1,
ELS-156	Linear Add	No	Linear Static	PUNTUAL_155	1,
ELS-156			Linear Static	DEAD	1,
ELS-156	Linear Add	No	Linear Static	CARGA	1,
ELS-157			Linear Static	PUNTUAL_156	1,
ELS-157	Linear Add	No	Linear Static	DEAD	1,
ELS-157			Linear Static	CARGA	1,
ELS-158	Linear Add	No	Linear Static	PUNTUAL_157	1,
ELS-158			Linear Static	DEAD	1,
ELS-158	Linear Add	No	Linear Static	CARGA	1,
ELS-159			Linear Static	PUNTUAL_158	1,
ELS-159	Linear Add	No	Linear Static	DEAD	1,
ELS-159			Linear Static	CARGA	1,
ELS-159	Linear Add	No	Linear Static	PUNTUAL_159	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-160	Linear Add	No	Linear Static	DEAD	1,
ELS-160			Linear Static	CARGA PUNTUAL_160	1,
ELS-161	Linear Add	No	Linear Static	DEAD	1,
ELS-161			Linear Static	CARGA PUNTUAL_161	1,
ELS-162	Linear Add	No	Linear Static	DEAD	1,
ELS-162			Linear Static	CARGA PUNTUAL_162	1,
ELS-163	Linear Add	No	Linear Static	DEAD	1,
ELS-163			Linear Static	CARGA PUNTUAL_163	1,
ELS-164	Linear Add	No	Linear Static	DEAD	1,
ELS-164			Linear Static	CARGA PUNTUAL_164	1,
ELS-165	Linear Add	No	Linear Static	DEAD	1,
ELS-165			Linear Static	CARGA PUNTUAL_165	1,
ELS-166	Linear Add	No	Linear Static	DEAD	1,
ELS-166			Linear Static	CARGA PUNTUAL_166	1,
ELS-167	Linear Add	No	Linear Static	DEAD	1,
ELS-167			Linear Static	CARGA PUNTUAL_167	1,
ELS-168	Linear Add	No	Linear Static	DEAD	1,
ELS-168			Linear Static	CARGA PUNTUAL_168	1,
ELS-169	Linear Add	No	Linear Static	DEAD	1,
ELS-169			Linear Static	CARGA PUNTUAL_169	1,
ELS-170	Linear Add	No	Linear Static	DEAD	1,
ELS-170			Linear Static	CARGA PUNTUAL_170	1,
ELS-171	Linear Add	No	Linear Static	DEAD	1,
ELS-171			Linear Static	CARGA PUNTUAL_171	1,
ELS-172	Linear Add	No	Linear Static	DEAD	1,
ELS-172			Linear Static	CARGA PUNTUAL_172	1,
ELS-173	Linear Add	No	Linear Static	DEAD	1,
ELS-173			Linear Static	CARGA PUNTUAL_173	1,
ELS-174	Linear Add	No	Linear Static	DEAD	1,
ELS-174			Linear Static	CARGA PUNTUAL_174	1,
ELS-175	Linear Add	No	Linear Static	DEAD	1,
ELS-175			Linear Static	CARGA PUNTUAL_175	1,
ELS-176	Linear Add	No	Linear Static	DEAD	1,
ELS-176			Linear Static	CARGA PUNTUAL_176	1,
ELS-177	Linear Add	No	Linear Static	DEAD	1,
ELS-177			Linear Static	CARGA PUNTUAL_177	1,
ELS-178	Linear Add	No	Linear Static	DEAD	1,
ELS-178			Linear Static	CARGA PUNTUAL_178	1,
ELS-179	Linear Add	No	Linear Static	DEAD	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELS-179	Linear Add	No	Linear Static	CARGA	1,
ELS-180			Linear Static	PUNTUAL_179	1,
ELS-180	Linear Add	No	Linear Static	DEAD	1,
ELS-181			Linear Static	CARGA	1,
ELS-181	Linear Add	No	Linear Static	PUNTUAL_180	1,
ELS-181			Linear Static	DEAD	1,
ELS-181	Linear Add	No	Linear Static	CARGA	1,
ELS-182			Linear Static	PUNTUAL_181	1,
ELS-182	Linear Add	No	Linear Static	DEAD	1,
ELS-182			Linear Static	CARGA	1,
ELS-182	Linear Add	No	Linear Static	PUNTUAL_182	1,
ELS-183			Linear Static	DEAD	1,
ELS-183	Linear Add	No	Linear Static	CARGA	1,
ELS-183			Linear Static	PUNTUAL_183	1,
ELS-184	Linear Add	No	Linear Static	DEAD	1,
ELS-184			Linear Static	CARGA	1,
ELS-184	Linear Add	No	Linear Static	PUNTUAL_184	1,
ELS-185			Linear Static	DEAD	1,
ELS-185	Linear Add	No	Linear Static	CARGA	1,
ELS-185			Linear Static	PUNTUAL_185	1,
ELS-186	Linear Add	No	Linear Static	DEAD	1,
ELS-186			Linear Static	CARGA	1,
ELS-186	Linear Add	No	Linear Static	PUNTUAL_186	1,
ELS-187			Linear Static	DEAD	1,
ELS-187	Linear Add	No	Linear Static	CARGA	1,
ELS-187			Linear Static	PUNTUAL_187	1,
ELS-188	Linear Add	No	Linear Static	DEAD	1,
ELS-188			Linear Static	CARGA	1,
ELS-188	Linear Add	No	Linear Static	PUNTUAL_188	1,
ELS-189			Linear Static	DEAD	1,
ELS-189	Linear Add	No	Linear Static	CARGA	1,
ELS-189			Linear Static	PUNTUAL_189	1,
ELU-1	Linear Add	No	Linear Static	DEAD	1,35
ELU-1			Linear Static	CARGA	1,5
ELU-1	Linear Add	No	Linear Static	PUNTUAL_1	1,5
ELU-2			Linear Static	DEAD	1,35
ELU-2	Linear Add	No	Linear Static	CARGA	1,5
ELU-2			Linear Static	PUNTUAL_2	1,5
ELU-3	Linear Add	No	Linear Static	DEAD	1,35
ELU-3			Linear Static	CARGA	1,5
ELU-3	Linear Add	No	Linear Static	PUNTUAL_3	1,5
ELU-4			Linear Static	DEAD	1,35
ELU-4	Linear Add	No	Linear Static	CARGA	1,5
ELU-4			Linear Static	PUNTUAL_4	1,5
ELU-5	Linear Add	No	Linear Static	DEAD	1,35
ELU-5			Linear Static	CARGA	1,5
ELU-5	Linear Add	No	Linear Static	PUNTUAL_5	1,5
ELU-6			Linear Static	DEAD	1,35
ELU-6	Linear Add	No	Linear Static	CARGA	1,5
ELU-6			Linear Static	PUNTUAL_6	1,5
ELU-7	Linear Add	No	Linear Static	DEAD	1,35
ELU-7			Linear Static	CARGA	1,5
ELU-7	Linear Add	No	Linear Static	PUNTUAL_7	1,5
ELU-8			Linear Static	DEAD	1,35
ELU-8	Linear Add	No	Linear Static	CARGA	1,5
ELU-8			Linear Static	PUNTUAL_8	1,5
ELU-9	Linear Add	No	Linear Static	DEAD	1,35
ELU-9			Linear Static	CARGA	1,5
ELU-9	Linear Add	No	Linear Static	PUNTUAL_9	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-10	Linear Add	No	Linear Static	DEAD	1,35
ELU-10			Linear Static	CARGA PUNTUAL_10	1,5
ELU-11	Linear Add	No	Linear Static	DEAD	1,35
ELU-11			Linear Static	CARGA PUNTUAL_11	1,5
ELU-12	Linear Add	No	Linear Static	DEAD	1,35
ELU-12			Linear Static	CARGA PUNTUAL_12	1,5
ELU-13	Linear Add	No	Linear Static	DEAD	1,35
ELU-13			Linear Static	CARGA PUNTUAL_13	1,5
ELU-14	Linear Add	No	Linear Static	DEAD	1,35
ELU-14			Linear Static	CARGA PUNTUAL_14	1,5
ELU-15	Linear Add	No	Linear Static	DEAD	1,35
ELU-15			Linear Static	CARGA PUNTUAL_15	1,5
ELU-16	Linear Add	No	Linear Static	DEAD	1,35
ELU-16			Linear Static	CARGA PUNTUAL_16	1,5
ELU-17	Linear Add	No	Linear Static	DEAD	1,35
ELU-17			Linear Static	CARGA PUNTUAL_17	1,5
ELU-18	Linear Add	No	Linear Static	DEAD	1,35
ELU-18			Linear Static	CARGA PUNTUAL_18	1,5
ELU-19	Linear Add	No	Linear Static	DEAD	1,35
ELU-19			Linear Static	CARGA PUNTUAL_19	1,5
ELU-20	Linear Add	No	Linear Static	DEAD	1,35
ELU-20			Linear Static	CARGA PUNTUAL_20	1,5
ELU-21	Linear Add	No	Linear Static	DEAD	1,35
ELU-21			Linear Static	CARGA PUNTUAL_21	1,5
ELU-22	Linear Add	No	Linear Static	DEAD	1,35
ELU-22			Linear Static	CARGA PUNTUAL_22	1,5
ELU-23	Linear Add	No	Linear Static	DEAD	1,35
ELU-23			Linear Static	CARGA PUNTUAL_23	1,5
ELU-24	Linear Add	No	Linear Static	DEAD	1,35
ELU-24			Linear Static	CARGA PUNTUAL_24	1,5
ELU-25	Linear Add	No	Linear Static	DEAD	1,35
ELU-25			Linear Static	CARGA PUNTUAL_25	1,5
ELU-26	Linear Add	No	Linear Static	DEAD	1,35
ELU-26			Linear Static	CARGA PUNTUAL_26	1,5
ELU-27	Linear Add	No	Linear Static	DEAD	1,35
ELU-27			Linear Static	CARGA PUNTUAL_27	1,5
ELU-28	Linear Add	No	Linear Static	DEAD	1,35
ELU-28			Linear Static	CARGA PUNTUAL_28	1,5
ELU-29	Linear Add	No	Linear Static	DEAD	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-29			Linear Static	CARGA PUNTUAL_29	1,5
ELU-30	Linear Add	No	Linear Static	DEAD	1,35
ELU-30			Linear Static	CARGA PUNTUAL_30	1,5
ELU-31	Linear Add	No	Linear Static	DEAD	1,35
ELU-31			Linear Static	CARGA PUNTUAL_31	1,5
ELU-32	Linear Add	No	Linear Static	DEAD	1,35
ELU-32			Linear Static	CARGA PUNTUAL_32	1,5
ELU-33	Linear Add	No	Linear Static	DEAD	1,35
ELU-33			Linear Static	CARGA PUNTUAL_33	1,5
ELU-34	Linear Add	No	Linear Static	DEAD	1,35
ELU-34			Linear Static	CARGA PUNTUAL_34	1,5
ELU-35	Linear Add	No	Linear Static	DEAD	1,35
ELU-35			Linear Static	CARGA PUNTUAL_35	1,5
ELU-36	Linear Add	No	Linear Static	DEAD	1,35
ELU-36			Linear Static	CARGA PUNTUAL_36	1,5
ELU-37	Linear Add	No	Linear Static	DEAD	1,35
ELU-37			Linear Static	CARGA PUNTUAL_37	1,5
ELU-38	Linear Add	No	Linear Static	DEAD	1,35
ELU-38			Linear Static	CARGA PUNTUAL_38	1,5
ELU-39	Linear Add	No	Linear Static	DEAD	1,35
ELU-39			Linear Static	CARGA PUNTUAL_39	1,5
ELU-40	Linear Add	No	Linear Static	DEAD	1,35
ELU-40			Linear Static	CARGA PUNTUAL_40	1,5
ELU-41	Linear Add	No	Linear Static	DEAD	1,35
ELU-41			Linear Static	CARGA PUNTUAL_41	1,5
ELU-42	Linear Add	No	Linear Static	DEAD	1,35
ELU-42			Linear Static	CARGA PUNTUAL_42	1,5
ELU-43	Linear Add	No	Linear Static	DEAD	1,35
ELU-43			Linear Static	CARGA PUNTUAL_43	1,5
ELU-44	Linear Add	No	Linear Static	DEAD	1,35
ELU-44			Linear Static	CARGA PUNTUAL_44	1,5
ELU-45	Linear Add	No	Linear Static	DEAD	1,35
ELU-45			Linear Static	CARGA PUNTUAL_45	1,5
ELU-46	Linear Add	No	Linear Static	DEAD	1,35
ELU-46			Linear Static	CARGA PUNTUAL_46	1,5
ELU-47	Linear Add	No	Linear Static	DEAD	1,35
ELU-47			Linear Static	CARGA PUNTUAL_47	1,5
ELU-48	Linear Add	No	Linear Static	DEAD	1,35
ELU-48			Linear Static	CARGA PUNTUAL_48	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-49	Linear Add	No	Linear Static	DEAD	1,35
ELU-49			Linear Static	CARGA PUNTUAL_49	1,5
ELU-50	Linear Add	No	Linear Static	DEAD	1,35
ELU-50			Linear Static	CARGA PUNTUAL_50	1,5
ELU-51	Linear Add	No	Linear Static	DEAD	1,35
ELU-51			Linear Static	CARGA PUNTUAL_51	1,5
ELU-52	Linear Add	No	Linear Static	DEAD	1,35
ELU-52			Linear Static	CARGA PUNTUAL_52	1,5
ELU-53	Linear Add	No	Linear Static	DEAD	1,35
ELU-53			Linear Static	CARGA PUNTUAL_53	1,5
ELU-54	Linear Add	No	Linear Static	DEAD	1,35
ELU-54			Linear Static	CARGA PUNTUAL_54	1,5
ELU-55	Linear Add	No	Linear Static	DEAD	1,35
ELU-55			Linear Static	CARGA PUNTUAL_55	1,5
ELU-56	Linear Add	No	Linear Static	DEAD	1,35
ELU-56			Linear Static	CARGA PUNTUAL_56	1,5
ELU-57	Linear Add	No	Linear Static	DEAD	1,35
ELU-57			Linear Static	CARGA PUNTUAL_57	1,5
ELU-58	Linear Add	No	Linear Static	DEAD	1,35
ELU-58			Linear Static	CARGA PUNTUAL_58	1,5
ELU-59	Linear Add	No	Linear Static	DEAD	1,35
ELU-59			Linear Static	CARGA PUNTUAL_59	1,5
ELU-60	Linear Add	No	Linear Static	DEAD	1,35
ELU-60			Linear Static	CARGA PUNTUAL_60	1,5
ELU-61	Linear Add	No	Linear Static	DEAD	1,35
ELU-61			Linear Static	CARGA PUNTUAL_61	1,5
ELU-62	Linear Add	No	Linear Static	DEAD	1,35
ELU-62			Linear Static	CARGA PUNTUAL_62	1,5
ELU-63	Linear Add	No	Linear Static	DEAD	1,35
ELU-63			Linear Static	CARGA PUNTUAL_63	1,5
ELU-64	Linear Add	No	Linear Static	DEAD	1,35
ELU-64			Linear Static	CARGA PUNTUAL_64	1,5
ELU-65	Linear Add	No	Linear Static	DEAD	1,35
ELU-65			Linear Static	CARGA PUNTUAL_65	1,5
ELU-66	Linear Add	No	Linear Static	DEAD	1,35
ELU-66			Linear Static	CARGA PUNTUAL_66	1,5
ELU-67	Linear Add	No	Linear Static	DEAD	1,35
ELU-67			Linear Static	CARGA PUNTUAL_67	1,5
ELU-68	Linear Add	No	Linear Static	DEAD	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-68	Linear Add	No	Linear Static	CARGA	1,5
				PUNTUAL_68	
ELU-69	Linear Add	No	Linear Static	DEAD	1,35
ELU-69			Linear Static	CARGA	1,5
				PUNTUAL_69	
ELU-70	Linear Add	No	Linear Static	DEAD	1,35
ELU-70			Linear Static	CARGA	1,5
				PUNTUAL_70	
ELU-71	Linear Add	No	Linear Static	DEAD	1,35
ELU-71			Linear Static	CARGA	1,5
				PUNTUAL_71	
ELU-72	Linear Add	No	Linear Static	DEAD	1,35
ELU-72			Linear Static	CARGA	1,5
				PUNTUAL_72	
ELU-73	Linear Add	No	Linear Static	DEAD	1,35
ELU-73			Linear Static	CARGA	1,5
				PUNTUAL_73	
ELU-74	Linear Add	No	Linear Static	DEAD	1,35
ELU-74			Linear Static	CARGA	1,5
				PUNTUAL_74	
ELU-75	Linear Add	No	Linear Static	DEAD	1,35
ELU-75			Linear Static	CARGA	1,5
				PUNTUAL_75	
ELU-76	Linear Add	No	Linear Static	DEAD	1,35
ELU-76			Linear Static	CARGA	1,5
				PUNTUAL_76	
ELU-77	Linear Add	No	Linear Static	DEAD	1,35
ELU-77			Linear Static	CARGA	1,5
				PUNTUAL_77	
ELU-78	Linear Add	No	Linear Static	DEAD	1,35
ELU-78			Linear Static	CARGA	1,5
				PUNTUAL_78	
ELU-79	Linear Add	No	Linear Static	DEAD	1,35
ELU-79			Linear Static	CARGA	1,5
				PUNTUAL_79	
ELU-80	Linear Add	No	Linear Static	DEAD	1,35
ELU-80			Linear Static	CARGA	1,5
				PUNTUAL_80	
ELU-81	Linear Add	No	Linear Static	DEAD	1,35
ELU-81			Linear Static	CARGA	1,5
				PUNTUAL_81	
ELU-82	Linear Add	No	Linear Static	DEAD	1,35
ELU-82			Linear Static	CARGA	1,5
				PUNTUAL_82	
ELU-83	Linear Add	No	Linear Static	DEAD	1,35
ELU-83			Linear Static	CARGA	1,5
				PUNTUAL_83	
ELU-84	Linear Add	No	Linear Static	DEAD	1,35
ELU-84			Linear Static	CARGA	1,5
				PUNTUAL_84	
ELU-85	Linear Add	No	Linear Static	DEAD	1,35
ELU-85			Linear Static	CARGA	1,5
				PUNTUAL_85	
ELU-86	Linear Add	No	Linear Static	DEAD	1,35
ELU-86			Linear Static	CARGA	1,5
				PUNTUAL_86	
ELU-87	Linear Add	No	Linear Static	DEAD	1,35
ELU-87			Linear Static	CARGA	1,5
				PUNTUAL_87	

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-88	Linear Add	No	Linear Static	DEAD	1,35
ELU-88			Linear Static	CARGA PUNTUAL_88	1,5
ELU-89	Linear Add	No	Linear Static	DEAD	1,35
ELU-89			Linear Static	CARGA PUNTUAL_89	1,5
ELU-90	Linear Add	No	Linear Static	DEAD	1,35
ELU-90			Linear Static	CARGA PUNTUAL_90	1,5
ELU-91	Linear Add	No	Linear Static	DEAD	1,35
ELU-91			Linear Static	CARGA PUNTUAL_91	1,5
ELU-92	Linear Add	No	Linear Static	DEAD	1,35
ELU-92			Linear Static	CARGA PUNTUAL_92	1,5
ELU-93	Linear Add	No	Linear Static	DEAD	1,35
ELU-93			Linear Static	CARGA PUNTUAL_93	1,5
ELU-94	Linear Add	No	Linear Static	DEAD	1,35
ELU-94			Linear Static	CARGA PUNTUAL_94	1,5
ELU-95	Linear Add	No	Linear Static	DEAD	1,35
ELU-95			Linear Static	CARGA PUNTUAL_95	1,5
ELU-96	Linear Add	No	Linear Static	DEAD	1,35
ELU-96			Linear Static	CARGA PUNTUAL_96	1,5
ELU-97	Linear Add	No	Linear Static	DEAD	1,35
ELU-97			Linear Static	CARGA PUNTUAL_97	1,5
ELU-98	Linear Add	No	Linear Static	DEAD	1,35
ELU-98			Linear Static	CARGA PUNTUAL_98	1,5
ELU-99	Linear Add	No	Linear Static	DEAD	1,35
ELU-99			Linear Static	CARGA PUNTUAL_99	1,5
ELU-100	Linear Add	No	Linear Static	DEAD	1,35
ELU-100			Linear Static	CARGA PUNTUAL_100	1,5
ELU-101	Linear Add	No	Linear Static	DEAD	1,35
ELU-101			Linear Static	CARGA PUNTUAL_101	1,5
ELU-102	Linear Add	No	Linear Static	DEAD	1,35
ELU-102			Linear Static	CARGA PUNTUAL_102	1,5
ELU-103	Linear Add	No	Linear Static	DEAD	1,35
ELU-103			Linear Static	CARGA PUNTUAL_103	1,5
ELU-104	Linear Add	No	Linear Static	DEAD	1,35
ELU-104			Linear Static	CARGA PUNTUAL_104	1,5
ELU-105	Linear Add	No	Linear Static	DEAD	1,35
ELU-105			Linear Static	CARGA PUNTUAL_105	1,5
ELU-106	Linear Add	No	Linear Static	DEAD	1,35
ELU-106			Linear Static	CARGA PUNTUAL_106	1,5
ELU-107	Linear Add	No	Linear Static	DEAD	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-107			Linear Static	CARGA PUNTUAL_107	1,5
ELU-108	Linear Add	No	Linear Static	DEAD	1,35
ELU-108			Linear Static	CARGA PUNTUAL_108	1,5
ELU-109	Linear Add	No	Linear Static	DEAD	1,35
ELU-109			Linear Static	CARGA PUNTUAL_109	1,5
ELU-110	Linear Add	No	Linear Static	DEAD	1,35
ELU-110			Linear Static	CARGA PUNTUAL_110	1,5
ELU-111	Linear Add	No	Linear Static	DEAD	1,35
ELU-111			Linear Static	CARGA PUNTUAL_111	1,5
ELU-112	Linear Add	No	Linear Static	DEAD	1,35
ELU-112			Linear Static	CARGA PUNTUAL_112	1,5
ELU-113	Linear Add	No	Linear Static	DEAD	1,35
ELU-113			Linear Static	CARGA PUNTUAL_113	1,5
ELU-114	Linear Add	No	Linear Static	DEAD	1,35
ELU-114			Linear Static	CARGA PUNTUAL_114	1,5
ELU-115	Linear Add	No	Linear Static	DEAD	1,35
ELU-115			Linear Static	CARGA PUNTUAL_115	1,5
ELU-116	Linear Add	No	Linear Static	DEAD	1,35
ELU-116			Linear Static	CARGA PUNTUAL_116	1,5
ELU-117	Linear Add	No	Linear Static	DEAD	1,35
ELU-117			Linear Static	CARGA PUNTUAL_117	1,5
ELU-118	Linear Add	No	Linear Static	DEAD	1,35
ELU-118			Linear Static	CARGA PUNTUAL_118	1,5
ELU-119	Linear Add	No	Linear Static	DEAD	1,35
ELU-119			Linear Static	CARGA PUNTUAL_119	1,5
ELU-120	Linear Add	No	Linear Static	DEAD	1,35
ELU-120			Linear Static	CARGA PUNTUAL_120	1,5
ELU-121	Linear Add	No	Linear Static	DEAD	1,35
ELU-121			Linear Static	CARGA PUNTUAL_121	1,5
ELU-122	Linear Add	No	Linear Static	DEAD	1,35
ELU-122			Linear Static	CARGA PUNTUAL_122	1,5
ELU-123	Linear Add	No	Linear Static	DEAD	1,35
ELU-123			Linear Static	CARGA PUNTUAL_123	1,5
ELU-124	Linear Add	No	Linear Static	DEAD	1,35
ELU-124			Linear Static	CARGA PUNTUAL_124	1,5
ELU-125	Linear Add	No	Linear Static	DEAD	1,35
ELU-125			Linear Static	CARGA PUNTUAL_125	1,5
ELU-126	Linear Add	No	Linear Static	DEAD	1,35
ELU-126			Linear Static	CARGA PUNTUAL_126	1,5

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-127	Linear Add	No	Linear Static	DEAD	1,35
ELU-127			Linear Static	CARGA PUNTUAL_127	1,5
ELU-128	Linear Add	No	Linear Static	DEAD	1,35
ELU-128			Linear Static	CARGA PUNTUAL_128	1,5
ELU-129	Linear Add	No	Linear Static	DEAD	1,35
ELU-129			Linear Static	CARGA PUNTUAL_129	1,5
ELU-130	Linear Add	No	Linear Static	DEAD	1,35
ELU-130			Linear Static	CARGA PUNTUAL_130	1,5
ELU-131	Linear Add	No	Linear Static	DEAD	1,35
ELU-131			Linear Static	CARGA PUNTUAL_131	1,5
ELU-132	Linear Add	No	Linear Static	DEAD	1,35
ELU-132			Linear Static	CARGA PUNTUAL_132	1,5
ELU-133	Linear Add	No	Linear Static	DEAD	1,35
ELU-133			Linear Static	CARGA PUNTUAL_133	1,5
ELU-134	Linear Add	No	Linear Static	DEAD	1,35
ELU-134			Linear Static	CARGA PUNTUAL_134	1,5
ELU-135	Linear Add	No	Linear Static	DEAD	1,35
ELU-135			Linear Static	CARGA PUNTUAL_135	1,5
ELU-136	Linear Add	No	Linear Static	DEAD	1,35
ELU-136			Linear Static	CARGA PUNTUAL_136	1,5
ELU-137	Linear Add	No	Linear Static	DEAD	1,35
ELU-137			Linear Static	CARGA PUNTUAL_137	1,5
ELU-138	Linear Add	No	Linear Static	DEAD	1,35
ELU-138			Linear Static	CARGA PUNTUAL_138	1,5
ELU-139	Linear Add	No	Linear Static	DEAD	1,35
ELU-139			Linear Static	CARGA PUNTUAL_139	1,5
ELU-140	Linear Add	No	Linear Static	DEAD	1,35
ELU-140			Linear Static	CARGA PUNTUAL_140	1,5
ELU-141	Linear Add	No	Linear Static	DEAD	1,35
ELU-141			Linear Static	CARGA PUNTUAL_141	1,5
ELU-142	Linear Add	No	Linear Static	DEAD	1,35
ELU-142			Linear Static	CARGA PUNTUAL_142	1,5
ELU-143	Linear Add	No	Linear Static	DEAD	1,35
ELU-143			Linear Static	CARGA PUNTUAL_143	1,5
ELU-144	Linear Add	No	Linear Static	DEAD	1,35
ELU-144			Linear Static	CARGA PUNTUAL_144	1,5
ELU-145	Linear Add	No	Linear Static	DEAD	1,35
ELU-145			Linear Static	CARGA PUNTUAL_145	1,5
ELU-146	Linear Add	No	Linear Static	DEAD	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-146	Linear Add	No	Linear Static	CARGA	1,5
ELU-147			Linear Static	PUNTUAL_146	1,35
ELU-147	Linear Add	No	Linear Static	DEAD	1,35
ELU-148			Linear Static	CARGA	1,5
ELU-148	Linear Add	No	Linear Static	PUNTUAL_147	1,35
ELU-149			Linear Static	DEAD	1,35
ELU-149	Linear Add	No	Linear Static	CARGA	1,5
ELU-150			Linear Static	PUNTUAL_148	1,35
ELU-150	Linear Add	No	Linear Static	DEAD	1,35
ELU-151			Linear Static	CARGA	1,5
ELU-151	Linear Add	No	Linear Static	PUNTUAL_149	1,35
ELU-152			Linear Static	DEAD	1,35
ELU-152	Linear Add	No	Linear Static	CARGA	1,5
ELU-153			Linear Static	PUNTUAL_150	1,35
ELU-153	Linear Add	No	Linear Static	DEAD	1,35
ELU-154			Linear Static	CARGA	1,5
ELU-154	Linear Add	No	Linear Static	PUNTUAL_151	1,35
ELU-155			Linear Static	DEAD	1,35
ELU-155	Linear Add	No	Linear Static	CARGA	1,5
ELU-156			Linear Static	PUNTUAL_152	1,35
ELU-156	Linear Add	No	Linear Static	DEAD	1,35
ELU-157			Linear Static	CARGA	1,5
ELU-157	Linear Add	No	Linear Static	PUNTUAL_153	1,35
ELU-158			Linear Static	DEAD	1,35
ELU-158	Linear Add	No	Linear Static	CARGA	1,5
ELU-159			Linear Static	PUNTUAL_154	1,35
ELU-159	Linear Add	No	Linear Static	DEAD	1,35
ELU-160			Linear Static	CARGA	1,5
ELU-160	Linear Add	No	Linear Static	PUNTUAL_155	1,35
ELU-161			Linear Static	DEAD	1,35
ELU-161	Linear Add	No	Linear Static	CARGA	1,5
ELU-162			Linear Static	PUNTUAL_156	1,35
ELU-162	Linear Add	No	Linear Static	DEAD	1,35
ELU-163			Linear Static	CARGA	1,5
ELU-163	Linear Add	No	Linear Static	PUNTUAL_157	1,35
ELU-164			Linear Static	DEAD	1,35
ELU-164	Linear Add	No	Linear Static	CARGA	1,5
ELU-165			Linear Static	PUNTUAL_158	1,35
ELU-165	Linear Add	No	Linear Static	DEAD	1,35
ELU-165			Linear Static	CARGA	1,5
ELU-165	Linear Add	No	Linear Static	PUNTUAL_159	1,35
ELU-165			Linear Static	DEAD	1,35
ELU-165	Linear Add	No	Linear Static	CARGA	1,5
ELU-165			Linear Static	PUNTUAL_160	1,35
ELU-165	Linear Add	No	Linear Static	DEAD	1,35
ELU-165			Linear Static	CARGA	1,5
ELU-165	Linear Add	No	Linear Static	PUNTUAL_161	1,35
ELU-165			Linear Static	DEAD	1,35
ELU-165	Linear Add	No	Linear Static	CARGA	1,5
ELU-165			Linear Static	PUNTUAL_162	1,35
ELU-165	Linear Add	No	Linear Static	DEAD	1,35
ELU-165			Linear Static	CARGA	1,5
ELU-165	Linear Add	No	Linear Static	PUNTUAL_163	1,35
ELU-165			Linear Static	DEAD	1,35
ELU-165	Linear Add	No	Linear Static	CARGA	1,5
ELU-165			Linear Static	PUNTUAL_164	1,35
ELU-165	Linear Add	No	Linear Static	DEAD	1,35
ELU-165			Linear Static	CARGA	1,5
ELU-165	Linear Add	No	Linear Static	PUNTUAL_165	1,35
ELU-165			Linear Static	DEAD	1,35
ELU-165	Linear Add	No	Linear Static	CARGA	1,5
ELU-165			Linear Static	PUNTUAL_166	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-166	Linear Add	No	Linear Static	DEAD	1,35
ELU-166			Linear Static	CARGA	1,5
				PUNTUAL_166	
ELU-167	Linear Add	No	Linear Static	DEAD	1,35
ELU-167			Linear Static	CARGA	1,5
				PUNTUAL_167	
ELU-168	Linear Add	No	Linear Static	DEAD	1,35
ELU-168			Linear Static	CARGA	1,5
				PUNTUAL_168	
ELU-169	Linear Add	No	Linear Static	DEAD	1,35
ELU-169			Linear Static	CARGA	1,5
				PUNTUAL_169	
ELU-170	Linear Add	No	Linear Static	DEAD	1,35
ELU-170			Linear Static	CARGA	1,5
				PUNTUAL_170	
ELU-171	Linear Add	No	Linear Static	DEAD	1,35
ELU-171			Linear Static	CARGA	1,5
				PUNTUAL_171	
ELU-172	Linear Add	No	Linear Static	DEAD	1,35
ELU-172			Linear Static	CARGA	1,5
				PUNTUAL_172	
ELU-173	Linear Add	No	Linear Static	DEAD	1,35
ELU-173			Linear Static	CARGA	1,5
				PUNTUAL_173	
ELU-174	Linear Add	No	Linear Static	DEAD	1,35
ELU-174			Linear Static	CARGA	1,5
				PUNTUAL_174	
ELU-175	Linear Add	No	Linear Static	DEAD	1,35
ELU-175			Linear Static	CARGA	1,5
				PUNTUAL_175	
ELU-176	Linear Add	No	Linear Static	DEAD	1,35
ELU-176			Linear Static	CARGA	1,5
				PUNTUAL_176	
ELU-177	Linear Add	No	Linear Static	DEAD	1,35
ELU-177			Linear Static	CARGA	1,5
				PUNTUAL_177	
ELU-178	Linear Add	No	Linear Static	DEAD	1,35
ELU-178			Linear Static	CARGA	1,5
				PUNTUAL_178	
ELU-179	Linear Add	No	Linear Static	DEAD	1,35
ELU-179			Linear Static	CARGA	1,5
				PUNTUAL_179	
ELU-180	Linear Add	No	Linear Static	DEAD	1,35
ELU-180			Linear Static	CARGA	1,5
				PUNTUAL_180	
ELU-181	Linear Add	No	Linear Static	DEAD	1,35
ELU-181			Linear Static	CARGA	1,5
				PUNTUAL_181	
ELU-182	Linear Add	No	Linear Static	DEAD	1,35
ELU-182			Linear Static	CARGA	1,5
				PUNTUAL_182	
ELU-183	Linear Add	No	Linear Static	DEAD	1,35
ELU-183			Linear Static	CARGA	1,5
				PUNTUAL_183	
ELU-184	Linear Add	No	Linear Static	DEAD	1,35
ELU-184			Linear Static	CARGA	1,5
				PUNTUAL_184	
ELU-185	Linear Add	No	Linear Static	DEAD	1,35

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ELU-185	Linear Add	No	Linear Static	CARGA	1,5
ELU-186			Linear Static	PUNTUAL_185	1,35
ELU-186			Linear Static	DEAD	1,5
ELU-187	Linear Add	No	Linear Static	CARGA	1,35
ELU-187			Linear Static	PUNTUAL_186	1,5
ELU-187			Linear Static	DEAD	1,35
ELU-188	Linear Add	No	Linear Static	CARGA	1,5
ELU-188			Linear Static	PUNTUAL_187	1,35
ELU-188			Linear Static	DEAD	1,5
ELU-189	Linear Add	No	Linear Static	CARGA	1,35
ELU-189			Linear Static	PUNTUAL_188	1,5
ELU-189			Linear Static	DEAD	1,35
ENV-ELS	Envelope	No	Response Combo	CARGA	1,5
ENV-ELS			Response Combo	PUNTUAL_189	1,35
ENV-ELS			Response Combo	DEAD	1,5
ENV-ELS			Response Combo	ELS-1	1,
ENV-ELS			Response Combo	ELS-2	1,
ENV-ELS			Response Combo	ELS-3	1,
ENV-ELS			Response Combo	ELS-4	1,
ENV-ELS			Response Combo	ELS-5	1,
ENV-ELS			Response Combo	ELS-6	1,
ENV-ELS			Response Combo	ELS-7	1,
ENV-ELS			Response Combo	ELS-8	1,
ENV-ELS			Response Combo	ELS-9	1,
ENV-ELS			Response Combo	ELS-10	1,
ENV-ELS			Response Combo	ELS-11	1,
ENV-ELS			Response Combo	ELS-12	1,
ENV-ELS			Response Combo	ELS-13	1,
ENV-ELS			Response Combo	ELS-14	1,
ENV-ELS			Response Combo	ELS-15	1,
ENV-ELS			Response Combo	ELS-16	1,
ENV-ELS			Response Combo	ELS-17	1,
ENV-ELS			Response Combo	ELS-18	1,
ENV-ELS			Response Combo	ELS-19	1,
ENV-ELS			Response Combo	ELS-20	1,
ENV-ELS			Response Combo	ELS-21	1,
ENV-ELS			Response Combo	ELS-22	1,
ENV-ELS			Response Combo	ELS-23	1,
ENV-ELS			Response Combo	ELS-24	1,
ENV-ELS			Response Combo	ELS-25	1,
ENV-ELS			Response Combo	ELS-26	1,
ENV-ELS			Response Combo	ELS-27	1,
ENV-ELS			Response Combo	ELS-28	1,
ENV-ELS			Response Combo	ELS-29	1,
ENV-ELS			Response Combo	ELS-30	1,
ENV-ELS			Response Combo	ELS-31	1,
ENV-ELS			Response Combo	ELS-32	1,
ENV-ELS			Response Combo	ELS-33	1,
ENV-ELS			Response Combo	ELS-34	1,
ENV-ELS			Response Combo	ELS-35	1,
ENV-ELS			Response Combo	ELS-36	1,
ENV-ELS			Response Combo	ELS-37	1,
ENV-ELS			Response Combo	ELS-38	1,
ENV-ELS			Response Combo	ELS-39	1,
ENV-ELS			Response Combo	ELS-40	1,
ENV-ELS			Response Combo	ELS-41	1,
ENV-ELS			Response Combo	ELS-42	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS			Response Combo	ELS-43	1,
ENV-ELS			Response Combo	ELS-44	1,
ENV-ELS			Response Combo	ELS-45	1,
ENV-ELS			Response Combo	ELS-46	1,
ENV-ELS			Response Combo	ELS-47	1,
ENV-ELS			Response Combo	ELS-48	1,
ENV-ELS			Response Combo	ELS-49	1,
ENV-ELS			Response Combo	ELS-50	1,
ENV-ELS			Response Combo	ELS-51	1,
ENV-ELS			Response Combo	ELS-52	1,
ENV-ELS			Response Combo	ELS-53	1,
ENV-ELS			Response Combo	ELS-54	1,
ENV-ELS			Response Combo	ELS-55	1,
ENV-ELS			Response Combo	ELS-56	1,
ENV-ELS			Response Combo	ELS-57	1,
ENV-ELS			Response Combo	ELS-58	1,
ENV-ELS			Response Combo	ELS-59	1,
ENV-ELS			Response Combo	ELS-60	1,
ENV-ELS			Response Combo	ELS-61	1,
ENV-ELS			Response Combo	ELS-62	1,
ENV-ELS			Response Combo	ELS-63	1,
ENV-ELS			Response Combo	ELS-64	1,
ENV-ELS			Response Combo	ELS-65	1,
ENV-ELS			Response Combo	ELS-66	1,
ENV-ELS			Response Combo	ELS-67	1,
ENV-ELS			Response Combo	ELS-68	1,
ENV-ELS			Response Combo	ELS-69	1,
ENV-ELS			Response Combo	ELS-70	1,
ENV-ELS			Response Combo	ELS-71	1,
ENV-ELS			Response Combo	ELS-72	1,
ENV-ELS			Response Combo	ELS-73	1,
ENV-ELS			Response Combo	ELS-74	1,
ENV-ELS			Response Combo	ELS-75	1,
ENV-ELS			Response Combo	ELS-76	1,
ENV-ELS			Response Combo	ELS-77	1,
ENV-ELS			Response Combo	ELS-78	1,
ENV-ELS			Response Combo	ELS-79	1,
ENV-ELS			Response Combo	ELS-80	1,
ENV-ELS			Response Combo	ELS-81	1,
ENV-ELS			Response Combo	ELS-82	1,
ENV-ELS			Response Combo	ELS-83	1,
ENV-ELS			Response Combo	ELS-84	1,
ENV-ELS			Response Combo	ELS-85	1,
ENV-ELS			Response Combo	ELS-86	1,
ENV-ELS			Response Combo	ELS-87	1,
ENV-ELS			Response Combo	ELS-88	1,
ENV-ELS			Response Combo	ELS-89	1,
ENV-ELS			Response Combo	ELS-90	1,
ENV-ELS			Response Combo	ELS-91	1,
ENV-ELS			Response Combo	ELS-92	1,
ENV-ELS			Response Combo	ELS-93	1,
ENV-ELS			Response Combo	ELS-94	1,
ENV-ELS			Response Combo	ELS-95	1,
ENV-ELS			Response Combo	ELS-96	1,
ENV-ELS			Response Combo	ELS-97	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS			Response Combo	ELS-98	1,
ENV-ELS			Response Combo	ELS-99	1,
ENV-ELS			Response Combo	ELS-100	1,
ENV-ELS			Response Combo	ELS-101	1,
ENV-ELS			Response Combo	ELS-102	1,
ENV-ELS			Response Combo	ELS-103	1,
ENV-ELS			Response Combo	ELS-104	1,
ENV-ELS			Response Combo	ELS-105	1,
ENV-ELS			Response Combo	ELS-106	1,
ENV-ELS			Response Combo	ELS-107	1,
ENV-ELS			Response Combo	ELS-108	1,
ENV-ELS			Response Combo	ELS-109	1,
ENV-ELS			Response Combo	ELS-110	1,
ENV-ELS			Response Combo	ELS-111	1,
ENV-ELS			Response Combo	ELS-112	1,
ENV-ELS			Response Combo	ELS-113	1,
ENV-ELS			Response Combo	ELS-114	1,
ENV-ELS			Response Combo	ELS-115	1,
ENV-ELS			Response Combo	ELS-116	1,
ENV-ELS			Response Combo	ELS-117	1,
ENV-ELS			Response Combo	ELS-118	1,
ENV-ELS			Response Combo	ELS-119	1,
ENV-ELS			Response Combo	ELS-120	1,
ENV-ELS			Response Combo	ELS-121	1,
ENV-ELS			Response Combo	ELS-122	1,
ENV-ELS			Response Combo	ELS-123	1,
ENV-ELS			Response Combo	ELS-124	1,
ENV-ELS			Response Combo	ELS-125	1,
ENV-ELS			Response Combo	ELS-126	1,
ENV-ELS			Response Combo	ELS-127	1,
ENV-ELS			Response Combo	ELS-128	1,
ENV-ELS			Response Combo	ELS-129	1,
ENV-ELS			Response Combo	ELS-130	1,
ENV-ELS			Response Combo	ELS-131	1,
ENV-ELS			Response Combo	ELS-132	1,
ENV-ELS			Response Combo	ELS-133	1,
ENV-ELS			Response Combo	ELS-134	1,
ENV-ELS			Response Combo	ELS-135	1,
ENV-ELS			Response Combo	ELS-136	1,
ENV-ELS			Response Combo	ELS-137	1,
ENV-ELS			Response Combo	ELS-138	1,
ENV-ELS			Response Combo	ELS-139	1,
ENV-ELS			Response Combo	ELS-140	1,
ENV-ELS			Response Combo	ELS-141	1,
ENV-ELS			Response Combo	ELS-142	1,
ENV-ELS			Response Combo	ELS-143	1,
ENV-ELS			Response Combo	ELS-144	1,
ENV-ELS			Response Combo	ELS-145	1,
ENV-ELS			Response Combo	ELS-146	1,
ENV-ELS			Response Combo	ELS-147	1,
ENV-ELS			Response Combo	ELS-148	1,
ENV-ELS			Response Combo	ELS-149	1,
ENV-ELS			Response Combo	ELS-150	1,
ENV-ELS			Response Combo	ELS-151	1,
ENV-ELS			Response Combo	ELS-152	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELS	Envelope	No	Response Combo	ELS-153	1,
ENV-ELS			Response Combo	ELS-154	1,
ENV-ELS			Response Combo	ELS-155	1,
ENV-ELS			Response Combo	ELS-156	1,
ENV-ELS			Response Combo	ELS-157	1,
ENV-ELS			Response Combo	ELS-158	1,
ENV-ELS			Response Combo	ELS-159	1,
ENV-ELS			Response Combo	ELS-160	1,
ENV-ELS			Response Combo	ELS-161	1,
ENV-ELS			Response Combo	ELS-162	1,
ENV-ELS			Response Combo	ELS-163	1,
ENV-ELS			Response Combo	ELS-164	1,
ENV-ELS			Response Combo	ELS-165	1,
ENV-ELS			Response Combo	ELS-166	1,
ENV-ELS			Response Combo	ELS-167	1,
ENV-ELS			Response Combo	ELS-168	1,
ENV-ELS			Response Combo	ELS-169	1,
ENV-ELS			Response Combo	ELS-170	1,
ENV-ELS			Response Combo	ELS-171	1,
ENV-ELS			Response Combo	ELS-172	1,
ENV-ELS			Response Combo	ELS-173	1,
ENV-ELS			Response Combo	ELS-174	1,
ENV-ELS			Response Combo	ELS-175	1,
ENV-ELS			Response Combo	ELS-176	1,
ENV-ELS			Response Combo	ELS-177	1,
ENV-ELS			Response Combo	ELS-178	1,
ENV-ELS			Response Combo	ELS-179	1,
ENV-ELS			Response Combo	ELS-180	1,
ENV-ELS			Response Combo	ELS-181	1,
ENV-ELS			Response Combo	ELS-182	1,
ENV-ELS			Response Combo	ELS-183	1,
ENV-ELS			Response Combo	ELS-184	1,
ENV-ELS			Response Combo	ELS-185	1,
ENV-ELS			Response Combo	ELS-186	1,
ENV-ELS			Response Combo	ELS-187	1,
ENV-ELS			Response Combo	ELS-188	1,
ENV-ELS			Response Combo	ELS-189	1,
ENV-ELU			Response Combo	ELU-1	1,
ENV-ELU			Response Combo	ELU-2	1,
ENV-ELU			Response Combo	ELU-3	1,
ENV-ELU			Response Combo	ELU-4	1,
ENV-ELU			Response Combo	ELU-5	1,
ENV-ELU			Response Combo	ELU-6	1,
ENV-ELU			Response Combo	ELU-7	1,
ENV-ELU			Response Combo	ELU-8	1,
ENV-ELU			Response Combo	ELU-9	1,
ENV-ELU			Response Combo	ELU-10	1,
ENV-ELU			Response Combo	ELU-11	1,
ENV-ELU			Response Combo	ELU-12	1,
ENV-ELU			Response Combo	ELU-13	1,
ENV-ELU			Response Combo	ELU-14	1,
ENV-ELU			Response Combo	ELU-15	1,
ENV-ELU			Response Combo	ELU-16	1,
ENV-ELU			Response Combo	ELU-17	1,
ENV-ELU			Response Combo	ELU-18	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-19	1,
ENV-ELU			Response Combo	ELU-20	1,
ENV-ELU			Response Combo	ELU-21	1,
ENV-ELU			Response Combo	ELU-22	1,
ENV-ELU			Response Combo	ELU-23	1,
ENV-ELU			Response Combo	ELU-24	1,
ENV-ELU			Response Combo	ELU-25	1,
ENV-ELU			Response Combo	ELU-26	1,
ENV-ELU			Response Combo	ELU-27	1,
ENV-ELU			Response Combo	ELU-28	1,
ENV-ELU			Response Combo	ELU-29	1,
ENV-ELU			Response Combo	ELU-30	1,
ENV-ELU			Response Combo	ELU-31	1,
ENV-ELU			Response Combo	ELU-32	1,
ENV-ELU			Response Combo	ELU-33	1,
ENV-ELU			Response Combo	ELU-34	1,
ENV-ELU			Response Combo	ELU-35	1,
ENV-ELU			Response Combo	ELU-36	1,
ENV-ELU			Response Combo	ELU-37	1,
ENV-ELU			Response Combo	ELU-38	1,
ENV-ELU			Response Combo	ELU-39	1,
ENV-ELU			Response Combo	ELU-40	1,
ENV-ELU			Response Combo	ELU-41	1,
ENV-ELU			Response Combo	ELU-42	1,
ENV-ELU			Response Combo	ELU-43	1,
ENV-ELU			Response Combo	ELU-44	1,
ENV-ELU			Response Combo	ELU-45	1,
ENV-ELU			Response Combo	ELU-46	1,
ENV-ELU			Response Combo	ELU-47	1,
ENV-ELU			Response Combo	ELU-48	1,
ENV-ELU			Response Combo	ELU-49	1,
ENV-ELU			Response Combo	ELU-50	1,
ENV-ELU			Response Combo	ELU-51	1,
ENV-ELU			Response Combo	ELU-52	1,
ENV-ELU			Response Combo	ELU-53	1,
ENV-ELU			Response Combo	ELU-54	1,
ENV-ELU			Response Combo	ELU-55	1,
ENV-ELU			Response Combo	ELU-56	1,
ENV-ELU			Response Combo	ELU-57	1,
ENV-ELU			Response Combo	ELU-58	1,
ENV-ELU			Response Combo	ELU-59	1,
ENV-ELU			Response Combo	ELU-60	1,
ENV-ELU			Response Combo	ELU-61	1,
ENV-ELU			Response Combo	ELU-62	1,
ENV-ELU			Response Combo	ELU-63	1,
ENV-ELU			Response Combo	ELU-64	1,
ENV-ELU			Response Combo	ELU-65	1,
ENV-ELU			Response Combo	ELU-66	1,
ENV-ELU			Response Combo	ELU-67	1,
ENV-ELU			Response Combo	ELU-68	1,
ENV-ELU			Response Combo	ELU-69	1,
ENV-ELU			Response Combo	ELU-70	1,
ENV-ELU			Response Combo	ELU-71	1,
ENV-ELU			Response Combo	ELU-72	1,
ENV-ELU			Response Combo	ELU-73	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-74	1,
ENV-ELU			Response Combo	ELU-75	1,
ENV-ELU			Response Combo	ELU-76	1,
ENV-ELU			Response Combo	ELU-77	1,
ENV-ELU			Response Combo	ELU-78	1,
ENV-ELU			Response Combo	ELU-79	1,
ENV-ELU			Response Combo	ELU-80	1,
ENV-ELU			Response Combo	ELU-81	1,
ENV-ELU			Response Combo	ELU-82	1,
ENV-ELU			Response Combo	ELU-83	1,
ENV-ELU			Response Combo	ELU-84	1,
ENV-ELU			Response Combo	ELU-85	1,
ENV-ELU			Response Combo	ELU-86	1,
ENV-ELU			Response Combo	ELU-87	1,
ENV-ELU			Response Combo	ELU-88	1,
ENV-ELU			Response Combo	ELU-89	1,
ENV-ELU			Response Combo	ELU-90	1,
ENV-ELU			Response Combo	ELU-91	1,
ENV-ELU			Response Combo	ELU-92	1,
ENV-ELU			Response Combo	ELU-93	1,
ENV-ELU			Response Combo	ELU-94	1,
ENV-ELU			Response Combo	ELU-95	1,
ENV-ELU			Response Combo	ELU-96	1,
ENV-ELU			Response Combo	ELU-97	1,
ENV-ELU			Response Combo	ELU-98	1,
ENV-ELU			Response Combo	ELU-99	1,
ENV-ELU			Response Combo	ELU-100	1,
ENV-ELU			Response Combo	ELU-101	1,
ENV-ELU			Response Combo	ELU-102	1,
ENV-ELU			Response Combo	ELU-103	1,
ENV-ELU			Response Combo	ELU-104	1,
ENV-ELU			Response Combo	ELU-105	1,
ENV-ELU			Response Combo	ELU-106	1,
ENV-ELU			Response Combo	ELU-107	1,
ENV-ELU			Response Combo	ELU-108	1,
ENV-ELU			Response Combo	ELU-109	1,
ENV-ELU			Response Combo	ELU-110	1,
ENV-ELU			Response Combo	ELU-111	1,
ENV-ELU			Response Combo	ELU-112	1,
ENV-ELU			Response Combo	ELU-113	1,
ENV-ELU			Response Combo	ELU-114	1,
ENV-ELU			Response Combo	ELU-115	1,
ENV-ELU			Response Combo	ELU-116	1,
ENV-ELU			Response Combo	ELU-117	1,
ENV-ELU			Response Combo	ELU-118	1,
ENV-ELU			Response Combo	ELU-119	1,
ENV-ELU			Response Combo	ELU-120	1,
ENV-ELU			Response Combo	ELU-121	1,
ENV-ELU			Response Combo	ELU-122	1,
ENV-ELU			Response Combo	ELU-123	1,
ENV-ELU			Response Combo	ELU-124	1,
ENV-ELU			Response Combo	ELU-125	1,
ENV-ELU			Response Combo	ELU-126	1,
ENV-ELU			Response Combo	ELU-127	1,
ENV-ELU			Response Combo	ELU-128	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-129	1,
ENV-ELU			Response Combo	ELU-130	1,
ENV-ELU			Response Combo	ELU-131	1,
ENV-ELU			Response Combo	ELU-132	1,
ENV-ELU			Response Combo	ELU-133	1,
ENV-ELU			Response Combo	ELU-134	1,
ENV-ELU			Response Combo	ELU-135	1,
ENV-ELU			Response Combo	ELU-136	1,
ENV-ELU			Response Combo	ELU-137	1,
ENV-ELU			Response Combo	ELU-138	1,
ENV-ELU			Response Combo	ELU-139	1,
ENV-ELU			Response Combo	ELU-140	1,
ENV-ELU			Response Combo	ELU-141	1,
ENV-ELU			Response Combo	ELU-142	1,
ENV-ELU			Response Combo	ELU-143	1,
ENV-ELU			Response Combo	ELU-144	1,
ENV-ELU			Response Combo	ELU-145	1,
ENV-ELU			Response Combo	ELU-146	1,
ENV-ELU			Response Combo	ELU-147	1,
ENV-ELU			Response Combo	ELU-148	1,
ENV-ELU			Response Combo	ELU-149	1,
ENV-ELU			Response Combo	ELU-150	1,
ENV-ELU			Response Combo	ELU-151	1,
ENV-ELU			Response Combo	ELU-152	1,
ENV-ELU			Response Combo	ELU-153	1,
ENV-ELU			Response Combo	ELU-154	1,
ENV-ELU			Response Combo	ELU-155	1,
ENV-ELU			Response Combo	ELU-156	1,
ENV-ELU			Response Combo	ELU-157	1,
ENV-ELU			Response Combo	ELU-158	1,
ENV-ELU			Response Combo	ELU-159	1,
ENV-ELU			Response Combo	ELU-160	1,
ENV-ELU			Response Combo	ELU-161	1,
ENV-ELU			Response Combo	ELU-162	1,
ENV-ELU			Response Combo	ELU-163	1,
ENV-ELU			Response Combo	ELU-164	1,
ENV-ELU			Response Combo	ELU-165	1,
ENV-ELU			Response Combo	ELU-166	1,
ENV-ELU			Response Combo	ELU-167	1,
ENV-ELU			Response Combo	ELU-168	1,
ENV-ELU			Response Combo	ELU-169	1,
ENV-ELU			Response Combo	ELU-170	1,
ENV-ELU			Response Combo	ELU-171	1,
ENV-ELU			Response Combo	ELU-172	1,
ENV-ELU			Response Combo	ELU-173	1,
ENV-ELU			Response Combo	ELU-174	1,
ENV-ELU			Response Combo	ELU-175	1,
ENV-ELU			Response Combo	ELU-176	1,
ENV-ELU			Response Combo	ELU-177	1,
ENV-ELU			Response Combo	ELU-178	1,
ENV-ELU			Response Combo	ELU-179	1,
ENV-ELU			Response Combo	ELU-180	1,
ENV-ELU			Response Combo	ELU-181	1,
ENV-ELU			Response Combo	ELU-182	1,
ENV-ELU			Response Combo	ELU-183	1,

Table: Combination Definitions

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor
ENV-ELU			Response Combo	ELU-184	1,
ENV-ELU			Response Combo	ELU-185	1,
ENV-ELU			Response Combo	ELU-186	1,
ENV-ELU			Response Combo	ELU-187	1,
ENV-ELU			Response Combo	ELU-188	1,
ENV-ELU			Response Combo	ELU-189	1,

Table: Joint Coordinates

Table: Joint Coordinates

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt
			m	m	m	
1	GLOBAL	Cartesian	0,	0,	0,	No
2	GLOBAL	Cartesian	0,	0,45	0,	No
3	GLOBAL	Cartesian	0,3	0,45	0,	No
4	GLOBAL	Cartesian	0,3	0,	0,	No
5	GLOBAL	Cartesian	0,	1,55	0,	No
6	GLOBAL	Cartesian	0,3	1,55	0,	No
7	GLOBAL	Cartesian	0,	2,	0,	No
8	GLOBAL	Cartesian	0,3	2,	0,	No
9	GLOBAL	Cartesian	0,6	0,45	0,	No
10	GLOBAL	Cartesian	0,6	0,	0,	No
11	GLOBAL	Cartesian	0,6	1,55	0,	No
12	GLOBAL	Cartesian	0,6	2,	0,	No
13	GLOBAL	Cartesian	1,175	0,45	0,	No
14	GLOBAL	Cartesian	1,175	0,	0,	No
15	GLOBAL	Cartesian	1,175	1,55	0,	No
16	GLOBAL	Cartesian	1,175	2,	0,	No
17	GLOBAL	Cartesian	1,75	0,45	0,	No
18	GLOBAL	Cartesian	1,75	0,	0,	No
19	GLOBAL	Cartesian	1,75	1,55	0,	No
20	GLOBAL	Cartesian	1,75	2,	0,	No
21	GLOBAL	Cartesian	2,325	0,45	0,	No
22	GLOBAL	Cartesian	2,325	0,	0,	No
23	GLOBAL	Cartesian	2,325	1,55	0,	No
24	GLOBAL	Cartesian	2,325	2,	0,	No
25	GLOBAL	Cartesian	2,9	0,45	0,	No
26	GLOBAL	Cartesian	2,9	0,	0,	No
27	GLOBAL	Cartesian	2,9	1,55	0,	No
28	GLOBAL	Cartesian	2,9	2,	0,	No
29	GLOBAL	Cartesian	3,475	0,45	0,	No
30	GLOBAL	Cartesian	3,475	0,	0,	No
31	GLOBAL	Cartesian	3,475	1,55	0,	No
32	GLOBAL	Cartesian	3,475	2,	0,	No
33	GLOBAL	Cartesian	4,05	0,45	0,	No
34	GLOBAL	Cartesian	4,05	0,	0,	No
35	GLOBAL	Cartesian	4,05	1,55	0,	No
36	GLOBAL	Cartesian	4,05	2,	0,	No
37	GLOBAL	Cartesian	4,625	0,45	0,	No
38	GLOBAL	Cartesian	4,625	0,	0,	No
39	GLOBAL	Cartesian	4,625	1,55	0,	No
40	GLOBAL	Cartesian	4,625	2,	0,	No
41	GLOBAL	Cartesian	5,2	0,45	0,	No
42	GLOBAL	Cartesian	5,2	0,	0,	No

Table: Joint Coordinates

Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
43	GLOBAL	Cartesian	5,2	1,55	0,	No
44	GLOBAL	Cartesian	5,2	2,	0,	No
45	GLOBAL	Cartesian	5,775	0,45	0,	No
46	GLOBAL	Cartesian	5,775	0,	0,	No
47	GLOBAL	Cartesian	5,775	1,55	0,	No
48	GLOBAL	Cartesian	5,775	2,	0,	No
49	GLOBAL	Cartesian	6,35	0,45	0,	No
50	GLOBAL	Cartesian	6,35	0,	0,	No
51	GLOBAL	Cartesian	6,35	1,55	0,	No
52	GLOBAL	Cartesian	6,35	2,	0,	No
53	GLOBAL	Cartesian	6,925	0,45	0,	No
54	GLOBAL	Cartesian	6,925	0,	0,	No
55	GLOBAL	Cartesian	6,925	1,55	0,	No
56	GLOBAL	Cartesian	6,925	2,	0,	No
57	GLOBAL	Cartesian	7,5	0,45	0,	No
58	GLOBAL	Cartesian	7,5	0,	0,	No
59	GLOBAL	Cartesian	7,5	1,55	0,	No
60	GLOBAL	Cartesian	7,5	2,	0,	No
61	GLOBAL	Cartesian	8,075	0,45	0,	No
62	GLOBAL	Cartesian	8,075	0,	0,	No
63	GLOBAL	Cartesian	8,075	1,55	0,	No
64	GLOBAL	Cartesian	8,075	2,	0,	No
65	GLOBAL	Cartesian	8,65	0,45	0,	No
66	GLOBAL	Cartesian	8,65	0,	0,	No
67	GLOBAL	Cartesian	8,65	1,55	0,	No
68	GLOBAL	Cartesian	8,65	2,	0,	No
69	GLOBAL	Cartesian	9,225	0,45	0,	No
70	GLOBAL	Cartesian	9,225	0,	0,	No
71	GLOBAL	Cartesian	9,225	1,55	0,	No
72	GLOBAL	Cartesian	9,225	2,	0,	No
73	GLOBAL	Cartesian	9,8	0,45	0,	No
74	GLOBAL	Cartesian	9,8	0,	0,	No
75	GLOBAL	Cartesian	9,8	1,55	0,	No
76	GLOBAL	Cartesian	9,8	2,	0,	No
77	GLOBAL	Cartesian	10,375	0,45	0,	No
78	GLOBAL	Cartesian	10,375	0,	0,	No
79	GLOBAL	Cartesian	10,375	1,55	0,	No
80	GLOBAL	Cartesian	10,375	2,	0,	No
81	GLOBAL	Cartesian	10,95	0,45	0,	No
82	GLOBAL	Cartesian	10,95	0,	0,	No
83	GLOBAL	Cartesian	10,95	1,55	0,	No
84	GLOBAL	Cartesian	10,95	2,	0,	No
85	GLOBAL	Cartesian	11,525	0,45	0,	No
86	GLOBAL	Cartesian	11,525	0,	0,	No
87	GLOBAL	Cartesian	11,525	1,55	0,	No
88	GLOBAL	Cartesian	11,525	2,	0,	No
89	GLOBAL	Cartesian	12,1	0,45	0,	No
90	GLOBAL	Cartesian	12,1	0,	0,	No
91	GLOBAL	Cartesian	12,1	1,55	0,	No
92	GLOBAL	Cartesian	12,1	2,	0,	No
93	GLOBAL	Cartesian	12,675	0,45	0,	No
94	GLOBAL	Cartesian	12,675	0,	0,	No
95	GLOBAL	Cartesian	12,675	1,55	0,	No
96	GLOBAL	Cartesian	12,675	2,	0,	No
97	GLOBAL	Cartesian	13,25	0,45	0,	No

Table: Joint Coordinates

Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
98	GLOBAL	Cartesian	13,25	0,	0,	No
99	GLOBAL	Cartesian	13,25	1,55	0,	No
100	GLOBAL	Cartesian	13,25	2,	0,	No
101	GLOBAL	Cartesian	13,55	0,45	0,	No
102	GLOBAL	Cartesian	13,55	0,	0,	No
103	GLOBAL	Cartesian	13,55	1,55	0,	No
104	GLOBAL	Cartesian	13,55	2,	0,	No
105	GLOBAL	Cartesian	13,85	0,45	0,	No
106	GLOBAL	Cartesian	13,85	0,	0,	No
107	GLOBAL	Cartesian	13,85	1,55	0,	No
108	GLOBAL	Cartesian	13,85	2,	0,	No
109	GLOBAL	Cartesian	0,	1,	0,	No
110	GLOBAL	Cartesian	0,3	1,	0,	No
111	GLOBAL	Cartesian	0,6	1,	0,	No
112	GLOBAL	Cartesian	1,175	1,	0,	No
113	GLOBAL	Cartesian	1,75	1,	0,	No
114	GLOBAL	Cartesian	2,325	1,	0,	No
115	GLOBAL	Cartesian	2,9	1,	0,	No
116	GLOBAL	Cartesian	3,475	1,	0,	No
117	GLOBAL	Cartesian	4,05	1,	0,	No
118	GLOBAL	Cartesian	4,625	1,	0,	No
119	GLOBAL	Cartesian	5,2	1,	0,	No
120	GLOBAL	Cartesian	5,775	1,	0,	No
121	GLOBAL	Cartesian	6,35	1,	0,	No
122	GLOBAL	Cartesian	6,925	1,	0,	No
123	GLOBAL	Cartesian	7,5	1,	0,	No
124	GLOBAL	Cartesian	8,075	1,	0,	No
125	GLOBAL	Cartesian	8,65	1,	0,	No
126	GLOBAL	Cartesian	9,225	1,	0,	No
127	GLOBAL	Cartesian	9,8	1,	0,	No
128	GLOBAL	Cartesian	10,375	1,	0,	No
129	GLOBAL	Cartesian	10,95	1,	0,	No
130	GLOBAL	Cartesian	11,525	1,	0,	No
131	GLOBAL	Cartesian	12,1	1,	0,	No
132	GLOBAL	Cartesian	12,675	1,	0,	No
133	GLOBAL	Cartesian	13,25	1,	0,	No
134	GLOBAL	Cartesian	13,55	1,	0,	No
135	GLOBAL	Cartesian	13,85	1,	0,	No
136	GLOBAL	Cartesian	0,	0,225	0,	No
137	GLOBAL	Cartesian	0,3	0,225	0,	No
138	GLOBAL	Cartesian	0,	1,775	0,	No
139	GLOBAL	Cartesian	0,3	1,775	0,	No
140	GLOBAL	Cartesian	0,6	0,225	0,	No
141	GLOBAL	Cartesian	0,6	1,775	0,	No
142	GLOBAL	Cartesian	1,175	0,225	0,	No
143	GLOBAL	Cartesian	1,175	1,775	0,	No
144	GLOBAL	Cartesian	1,75	0,225	0,	No
145	GLOBAL	Cartesian	1,75	1,775	0,	No
146	GLOBAL	Cartesian	2,325	0,225	0,	No
147	GLOBAL	Cartesian	2,325	1,775	0,	No
148	GLOBAL	Cartesian	2,9	0,225	0,	No
149	GLOBAL	Cartesian	2,9	1,775	0,	No
150	GLOBAL	Cartesian	3,475	0,225	0,	No
151	GLOBAL	Cartesian	3,475	1,775	0,	No
152	GLOBAL	Cartesian	4,05	0,225	0,	No

Table: Joint Coordinates

Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt
153	GLOBAL	Cartesian	4,05	1,775	0,	No
154	GLOBAL	Cartesian	4,625	0,225	0,	No
155	GLOBAL	Cartesian	4,625	1,775	0,	No
156	GLOBAL	Cartesian	5,2	0,225	0,	No
157	GLOBAL	Cartesian	5,2	1,775	0,	No
158	GLOBAL	Cartesian	5,775	0,225	0,	No
159	GLOBAL	Cartesian	5,775	1,775	0,	No
160	GLOBAL	Cartesian	6,35	0,225	0,	No
161	GLOBAL	Cartesian	6,35	1,775	0,	No
162	GLOBAL	Cartesian	6,925	0,225	0,	No
163	GLOBAL	Cartesian	6,925	1,775	0,	No
164	GLOBAL	Cartesian	7,5	0,225	0,	No
165	GLOBAL	Cartesian	7,5	1,775	0,	No
166	GLOBAL	Cartesian	8,075	0,225	0,	No
167	GLOBAL	Cartesian	8,075	1,775	0,	No
168	GLOBAL	Cartesian	8,65	0,225	0,	No
169	GLOBAL	Cartesian	8,65	1,775	0,	No
170	GLOBAL	Cartesian	9,225	0,225	0,	No
171	GLOBAL	Cartesian	9,225	1,775	0,	No
172	GLOBAL	Cartesian	9,8	0,225	0,	No
173	GLOBAL	Cartesian	9,8	1,775	0,	No
174	GLOBAL	Cartesian	10,375	0,225	0,	No
175	GLOBAL	Cartesian	10,375	1,775	0,	No
176	GLOBAL	Cartesian	10,95	0,225	0,	No
177	GLOBAL	Cartesian	10,95	1,775	0,	No
178	GLOBAL	Cartesian	11,525	0,225	0,	No
179	GLOBAL	Cartesian	11,525	1,775	0,	No
180	GLOBAL	Cartesian	12,1	0,225	0,	No
181	GLOBAL	Cartesian	12,1	1,775	0,	No
182	GLOBAL	Cartesian	12,675	0,225	0,	No
183	GLOBAL	Cartesian	12,675	1,775	0,	No
184	GLOBAL	Cartesian	13,25	0,225	0,	No
185	GLOBAL	Cartesian	13,25	1,775	0,	No
186	GLOBAL	Cartesian	13,55	0,225	0,	No
187	GLOBAL	Cartesian	13,55	1,775	0,	No
188	GLOBAL	Cartesian	13,85	0,225	0,	No
189	GLOBAL	Cartesian	13,85	1,775	0,	No

Table: Joint Restraint Assignments

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
6	Yes	Yes	Yes	No	No	No
9	Yes	Yes	Yes	No	No	No
15	Yes	Yes	Yes	No	No	No
17	Yes	Yes	Yes	No	No	No
23	Yes	Yes	Yes	No	No	No
25	Yes	Yes	Yes	No	No	No
31	Yes	Yes	Yes	No	No	No
33	Yes	Yes	Yes	No	No	No
39	Yes	Yes	Yes	No	No	No
41	Yes	Yes	Yes	No	No	No
47	Yes	Yes	Yes	No	No	No

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
49	Yes	Yes	Yes	No	No	No
55	Yes	Yes	Yes	No	No	No
57	Yes	Yes	Yes	No	No	No
63	Yes	Yes	Yes	No	No	No
65	Yes	Yes	Yes	No	No	No
71	Yes	Yes	Yes	No	No	No
73	Yes	Yes	Yes	No	No	No
79	Yes	Yes	Yes	No	No	No
81	Yes	Yes	Yes	No	No	No
87	Yes	Yes	Yes	No	No	No
89	Yes	Yes	Yes	No	No	No
95	Yes	Yes	Yes	No	No	No
97	Yes	Yes	Yes	No	No	No
103	Yes	Yes	Yes	No	No	No

Table: Connectivity - Area

Table: Connectivity - Area

Area	NumJoints	Joint1	Joint2	Joint3	Joint4
1066	4	2	3	110	109
1067	4	109	110	6	5
1068	4	3	9	111	110
1069	4	110	111	11	6
1070	4	9	13	112	111
1071	4	111	112	15	11
1072	4	13	17	113	112
1073	4	112	113	19	15
1074	4	17	21	114	113
1075	4	113	114	23	19
1076	4	21	25	115	114
1077	4	114	115	27	23
1078	4	25	29	116	115
1079	4	115	116	31	27
1080	4	29	33	117	116
1081	4	116	117	35	31
1082	4	33	37	118	117
1083	4	117	118	39	35
1084	4	37	41	119	118
1085	4	118	119	43	39
1086	4	41	45	120	119
1087	4	119	120	47	43
1088	4	45	49	121	120
1089	4	120	121	51	47
1090	4	49	53	122	121
1091	4	121	122	55	51
1092	4	53	57	123	122
1093	4	122	123	59	55
1094	4	57	61	124	123
1095	4	123	124	63	59
1096	4	61	65	125	124
1097	4	124	125	67	63
1098	4	65	69	126	125
1099	4	125	126	71	67

Table: Connectivity - Area

Area	NumJoints	Joint1	Joint2	Joint3	Joint4
1100	4	69	73	127	126
1101	4	126	127	75	71
1102	4	73	77	128	127
1103	4	127	128	79	75
1104	4	77	81	129	128
1105	4	128	129	83	79
1106	4	81	85	130	129
1107	4	129	130	87	83
1108	4	85	89	131	130
1109	4	130	131	91	87
1110	4	89	93	132	131
1111	4	131	132	95	91
1112	4	93	97	133	132
1113	4	132	133	99	95
1114	4	97	101	134	133
1115	4	133	134	103	99
1116	4	101	105	135	134
1117	4	134	135	107	103
1134	4	1	4	137	136
1135	4	136	137	3	2
1136	4	5	6	139	138
1137	4	138	139	8	7
1138	4	4	10	140	137
1139	4	137	140	9	3
1140	4	6	11	141	139
1141	4	139	141	12	8
1142	4	10	14	142	140
1143	4	140	142	13	9
1144	4	11	15	143	141
1145	4	141	143	16	12
1146	4	14	18	144	142
1147	4	142	144	17	13
1148	4	15	19	145	143
1149	4	143	145	20	16
1150	4	18	22	146	144
1151	4	144	146	21	17
1152	4	19	23	147	145
1153	4	145	147	24	20
1154	4	22	26	148	146
1155	4	146	148	25	21
1156	4	23	27	149	147
1157	4	147	149	28	24
1158	4	26	30	150	148
1159	4	148	150	29	25
1160	4	27	31	151	149
1161	4	149	151	32	28
1162	4	30	34	152	150
1163	4	150	152	33	29
1164	4	31	35	153	151
1165	4	151	153	36	32
1166	4	34	38	154	152
1167	4	152	154	37	33
1168	4	35	39	155	153
1169	4	153	155	40	36
1170	4	38	42	156	154

Table: Connectivity - Area

Area	NumJoints	Joint1	Joint2	Joint3	Joint4
1171	4	154	156	41	37
1172	4	39	43	157	155
1173	4	155	157	44	40
1174	4	42	46	158	156
1175	4	156	158	45	41
1176	4	43	47	159	157
1177	4	157	159	48	44
1178	4	46	50	160	158
1179	4	158	160	49	45
1180	4	47	51	161	159
1181	4	159	161	52	48
1182	4	50	54	162	160
1183	4	160	162	53	49
1184	4	51	55	163	161
1185	4	161	163	56	52
1186	4	54	58	164	162
1187	4	162	164	57	53
1188	4	55	59	165	163
1189	4	163	165	60	56
1190	4	58	62	166	164
1191	4	164	166	61	57
1192	4	59	63	167	165
1193	4	165	167	64	60
1194	4	62	66	168	166
1195	4	166	168	65	61
1196	4	63	67	169	167
1197	4	167	169	68	64
1198	4	66	70	170	168
1199	4	168	170	69	65
1200	4	67	71	171	169
1201	4	169	171	72	68
1202	4	70	74	172	170
1203	4	170	172	73	69
1204	4	71	75	173	171
1205	4	171	173	76	72
1206	4	74	78	174	172
1207	4	172	174	77	73
1208	4	75	79	175	173
1209	4	173	175	80	76
1210	4	78	82	176	174
1211	4	174	176	81	77
1212	4	79	83	177	175
1213	4	175	177	84	80
1214	4	82	86	178	176
1215	4	176	178	85	81
1216	4	83	87	179	177
1217	4	177	179	88	84
1218	4	86	90	180	178
1219	4	178	180	89	85
1220	4	87	91	181	179
1221	4	179	181	92	88
1222	4	90	94	182	180
1223	4	180	182	93	89
1224	4	91	95	183	181
1225	4	181	183	96	92

Table: Connectivity - Area

Area	NumJoints	Joint1	Joint2	Joint3	Joint4
1226	4	94	98	184	182
1227	4	182	184	97	93
1228	4	95	99	185	183
1229	4	183	185	100	96
1230	4	98	102	186	184
1231	4	184	186	101	97
1232	4	99	103	187	185
1233	4	185	187	104	100
1234	4	102	106	188	186
1235	4	186	188	105	101
1236	4	103	107	189	187
1237	4	187	189	108	104

Table: Area Section Properties, Part 1 of 2

Table: Area Section Properties, Part 1 of 2

Section	Material	MatAngle Degrees	AreaType	Type	DrillDOF	Thickness m	BendThick m	Arc Degrees
LOSA	HA-25	0,	Shell	Shell-Thin	Yes	0,4	0,4	

Table: Area Section Properties, Part 2 of 2

Table: Area Section Properties, Part 2 of 2

Section	InComp	CoordSys	Color
LOSA			Green

Table: Area Section Property Design Parameters

Table: Area Section Property Design Parameters

Section	RebarMat	RebarOpt	CoverTop1 m	CoverTop2 m	CoverBot1 m	CoverBot2 m
LOSA	Rebar	Two Layers	0,075	0,05	0,05	0,075

Table: Area Section Assignments

Table: Area Section Assignments

Area	Section	MatProp
1066	LOSA	Default
1067	LOSA	Default
1068	LOSA	Default
1069	LOSA	Default
1070	LOSA	Default
1071	LOSA	Default
1072	LOSA	Default
1073	LOSA	Default
1074	LOSA	Default
1075	LOSA	Default
1076	LOSA	Default
1077	LOSA	Default

Table: Area Section Assignments

Area	Section	MatProp
1078	LOSA	Default
1079	LOSA	Default
1080	LOSA	Default
1081	LOSA	Default
1082	LOSA	Default
1083	LOSA	Default
1084	LOSA	Default
1085	LOSA	Default
1086	LOSA	Default
1087	LOSA	Default
1088	LOSA	Default
1089	LOSA	Default
1090	LOSA	Default
1091	LOSA	Default
1092	LOSA	Default
1093	LOSA	Default
1094	LOSA	Default
1095	LOSA	Default
1096	LOSA	Default
1097	LOSA	Default
1098	LOSA	Default
1099	LOSA	Default
1100	LOSA	Default
1101	LOSA	Default
1102	LOSA	Default
1103	LOSA	Default
1104	LOSA	Default
1105	LOSA	Default
1106	LOSA	Default
1107	LOSA	Default
1108	LOSA	Default
1109	LOSA	Default
1110	LOSA	Default
1111	LOSA	Default
1112	LOSA	Default
1113	LOSA	Default
1114	LOSA	Default
1115	LOSA	Default
1116	LOSA	Default
1117	LOSA	Default
1134	LOSA	Default
1135	LOSA	Default
1136	LOSA	Default
1137	LOSA	Default
1138	LOSA	Default
1139	LOSA	Default
1140	LOSA	Default
1141	LOSA	Default
1142	LOSA	Default
1143	LOSA	Default
1144	LOSA	Default
1145	LOSA	Default
1146	LOSA	Default
1147	LOSA	Default
1148	LOSA	Default

Table: Area Section Assignments

Area	Section	MatProp
1149	LOSA	Default
1150	LOSA	Default
1151	LOSA	Default
1152	LOSA	Default
1153	LOSA	Default
1154	LOSA	Default
1155	LOSA	Default
1156	LOSA	Default
1157	LOSA	Default
1158	LOSA	Default
1159	LOSA	Default
1160	LOSA	Default
1161	LOSA	Default
1162	LOSA	Default
1163	LOSA	Default
1164	LOSA	Default
1165	LOSA	Default
1166	LOSA	Default
1167	LOSA	Default
1168	LOSA	Default
1169	LOSA	Default
1170	LOSA	Default
1171	LOSA	Default
1172	LOSA	Default
1173	LOSA	Default
1174	LOSA	Default
1175	LOSA	Default
1176	LOSA	Default
1177	LOSA	Default
1178	LOSA	Default
1179	LOSA	Default
1180	LOSA	Default
1181	LOSA	Default
1182	LOSA	Default
1183	LOSA	Default
1184	LOSA	Default
1185	LOSA	Default
1186	LOSA	Default
1187	LOSA	Default
1188	LOSA	Default
1189	LOSA	Default
1190	LOSA	Default
1191	LOSA	Default
1192	LOSA	Default
1193	LOSA	Default
1194	LOSA	Default
1195	LOSA	Default
1196	LOSA	Default
1197	LOSA	Default
1198	LOSA	Default
1199	LOSA	Default
1200	LOSA	Default
1201	LOSA	Default
1202	LOSA	Default
1203	LOSA	Default

Table: Area Section Assignments

Area	Section	MatProp
1204	LOSA	Default
1205	LOSA	Default
1206	LOSA	Default
1207	LOSA	Default
1208	LOSA	Default
1209	LOSA	Default
1210	LOSA	Default
1211	LOSA	Default
1212	LOSA	Default
1213	LOSA	Default
1214	LOSA	Default
1215	LOSA	Default
1216	LOSA	Default
1217	LOSA	Default
1218	LOSA	Default
1219	LOSA	Default
1220	LOSA	Default
1221	LOSA	Default
1222	LOSA	Default
1223	LOSA	Default
1224	LOSA	Default
1225	LOSA	Default
1226	LOSA	Default
1227	LOSA	Default
1228	LOSA	Default
1229	LOSA	Default
1230	LOSA	Default
1231	LOSA	Default
1232	LOSA	Default
1233	LOSA	Default
1234	LOSA	Default
1235	LOSA	Default
1236	LOSA	Default
1237	LOSA	Default

Table: Case - Static 1 - Load Assignments

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
DEAD	Load pattern	DEAD	1,
CARGA	Load pattern	CARGA	1,
PUNTUAL_1		PUNTUAL_1	
CARGA	Load pattern	CARGA	1,
PUNTUAL_2		PUNTUAL_2	
CARGA	Load pattern	CARGA	1,
PUNTUAL_3		PUNTUAL_3	
CARGA	Load pattern	CARGA	1,
PUNTUAL_4		PUNTUAL_4	
CARGA	Load pattern	CARGA	1,
PUNTUAL_5		PUNTUAL_5	
CARGA	Load pattern	CARGA	1,
PUNTUAL_6		PUNTUAL_6	
CARGA	Load pattern	CARGA	1,
PUNTUAL_7		PUNTUAL_7	

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
CARGA PUNTUAL_8	Load pattern	CARGA PUNTUAL_8	1,
CARGA PUNTUAL_9	Load pattern	CARGA PUNTUAL_9	1,
CARGA PUNTUAL_10	Load pattern	CARGA PUNTUAL_10	1,
CARGA PUNTUAL_11	Load pattern	CARGA PUNTUAL_11	1,
CARGA PUNTUAL_12	Load pattern	CARGA PUNTUAL_12	1,
CARGA PUNTUAL_13	Load pattern	CARGA PUNTUAL_13	1,
CARGA PUNTUAL_14	Load pattern	CARGA PUNTUAL_14	1,
CARGA PUNTUAL_15	Load pattern	CARGA PUNTUAL_15	1,
CARGA PUNTUAL_16	Load pattern	CARGA PUNTUAL_16	1,
CARGA PUNTUAL_17	Load pattern	CARGA PUNTUAL_17	1,
CARGA PUNTUAL_18	Load pattern	CARGA PUNTUAL_18	1,
CARGA PUNTUAL_19	Load pattern	CARGA PUNTUAL_19	1,
CARGA PUNTUAL_20	Load pattern	CARGA PUNTUAL_20	1,
CARGA PUNTUAL_21	Load pattern	CARGA PUNTUAL_21	1,
CARGA PUNTUAL_22	Load pattern	CARGA PUNTUAL_22	1,
CARGA PUNTUAL_23	Load pattern	CARGA PUNTUAL_23	1,
CARGA PUNTUAL_24	Load pattern	CARGA PUNTUAL_24	1,
CARGA PUNTUAL_25	Load pattern	CARGA PUNTUAL_25	1,
CARGA PUNTUAL_26	Load pattern	CARGA PUNTUAL_26	1,
CARGA PUNTUAL_27	Load pattern	CARGA PUNTUAL_27	1,
CARGA PUNTUAL_28	Load pattern	CARGA PUNTUAL_28	1,
CARGA PUNTUAL_29	Load pattern	CARGA PUNTUAL_29	1,
CARGA PUNTUAL_30	Load pattern	CARGA PUNTUAL_30	1,
CARGA PUNTUAL_31	Load pattern	CARGA PUNTUAL_31	1,
CARGA PUNTUAL_32	Load pattern	CARGA PUNTUAL_32	1,
CARGA PUNTUAL_33	Load pattern	CARGA PUNTUAL_33	1,
CARGA PUNTUAL_34	Load pattern	CARGA PUNTUAL_34	1,
CARGA PUNTUAL_35	Load pattern	CARGA PUNTUAL_35	1,
CARGA PUNTUAL_36	Load pattern	CARGA PUNTUAL_36	1,
CARGA PUNTUAL_37	Load pattern	CARGA PUNTUAL_37	1,

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
CARGA	Load pattern	CARGA	1,
PUNTUAL_38		PUNTUAL_38	
CARGA	Load pattern	CARGA	1,
PUNTUAL_39		PUNTUAL_39	
CARGA	Load pattern	CARGA	1,
PUNTUAL_40		PUNTUAL_40	
CARGA	Load pattern	CARGA	1,
PUNTUAL_41		PUNTUAL_41	
CARGA	Load pattern	CARGA	1,
PUNTUAL_42		PUNTUAL_42	
CARGA	Load pattern	CARGA	1,
PUNTUAL_43		PUNTUAL_43	
CARGA	Load pattern	CARGA	1,
PUNTUAL_44		PUNTUAL_44	
CARGA	Load pattern	CARGA	1,
PUNTUAL_45		PUNTUAL_45	
CARGA	Load pattern	CARGA	1,
PUNTUAL_46		PUNTUAL_46	
CARGA	Load pattern	CARGA	1,
PUNTUAL_47		PUNTUAL_47	
CARGA	Load pattern	CARGA	1,
PUNTUAL_48		PUNTUAL_48	
CARGA	Load pattern	CARGA	1,
PUNTUAL_49		PUNTUAL_49	
CARGA	Load pattern	CARGA	1,
PUNTUAL_50		PUNTUAL_50	
CARGA	Load pattern	CARGA	1,
PUNTUAL_51		PUNTUAL_51	
CARGA	Load pattern	CARGA	1,
PUNTUAL_52		PUNTUAL_52	
CARGA	Load pattern	CARGA	1,
PUNTUAL_53		PUNTUAL_53	
CARGA	Load pattern	CARGA	1,
PUNTUAL_54		PUNTUAL_54	
CARGA	Load pattern	CARGA	1,
PUNTUAL_55		PUNTUAL_55	
CARGA	Load pattern	CARGA	1,
PUNTUAL_56		PUNTUAL_56	
CARGA	Load pattern	CARGA	1,
PUNTUAL_57		PUNTUAL_57	
CARGA	Load pattern	CARGA	1,
PUNTUAL_58		PUNTUAL_58	
CARGA	Load pattern	CARGA	1,
PUNTUAL_59		PUNTUAL_59	
CARGA	Load pattern	CARGA	1,
PUNTUAL_60		PUNTUAL_60	
CARGA	Load pattern	CARGA	1,
PUNTUAL_61		PUNTUAL_61	
CARGA	Load pattern	CARGA	1,
PUNTUAL_62		PUNTUAL_62	
CARGA	Load pattern	CARGA	1,
PUNTUAL_63		PUNTUAL_63	
CARGA	Load pattern	CARGA	1,
PUNTUAL_64		PUNTUAL_64	
CARGA	Load pattern	CARGA	1,
PUNTUAL_65		PUNTUAL_65	
CARGA	Load pattern	CARGA	1,
PUNTUAL_66		PUNTUAL_66	
CARGA	Load pattern	CARGA	1,
PUNTUAL_67		PUNTUAL_67	

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
CARGA	Load pattern	CARGA	1,
PUNTUAL_68		PUNTUAL_68	
CARGA	Load pattern	CARGA	1,
PUNTUAL_69		PUNTUAL_69	
CARGA	Load pattern	CARGA	1,
PUNTUAL_70		PUNTUAL_70	
CARGA	Load pattern	CARGA	1,
PUNTUAL_71		PUNTUAL_71	
CARGA	Load pattern	CARGA	1,
PUNTUAL_72		PUNTUAL_72	
CARGA	Load pattern	CARGA	1,
PUNTUAL_73		PUNTUAL_73	
CARGA	Load pattern	CARGA	1,
PUNTUAL_74		PUNTUAL_74	
CARGA	Load pattern	CARGA	1,
PUNTUAL_75		PUNTUAL_75	
CARGA	Load pattern	CARGA	1,
PUNTUAL_76		PUNTUAL_76	
CARGA	Load pattern	CARGA	1,
PUNTUAL_77		PUNTUAL_77	
CARGA	Load pattern	CARGA	1,
PUNTUAL_78		PUNTUAL_78	
CARGA	Load pattern	CARGA	1,
PUNTUAL_79		PUNTUAL_79	
CARGA	Load pattern	CARGA	1,
PUNTUAL_80		PUNTUAL_80	
CARGA	Load pattern	CARGA	1,
PUNTUAL_81		PUNTUAL_81	
CARGA	Load pattern	CARGA	1,
PUNTUAL_82		PUNTUAL_82	
CARGA	Load pattern	CARGA	1,
PUNTUAL_83		PUNTUAL_83	
CARGA	Load pattern	CARGA	1,
PUNTUAL_84		PUNTUAL_84	
CARGA	Load pattern	CARGA	1,
PUNTUAL_85		PUNTUAL_85	
CARGA	Load pattern	CARGA	1,
PUNTUAL_86		PUNTUAL_86	
CARGA	Load pattern	CARGA	1,
PUNTUAL_87		PUNTUAL_87	
CARGA	Load pattern	CARGA	1,
PUNTUAL_88		PUNTUAL_88	
CARGA	Load pattern	CARGA	1,
PUNTUAL_89		PUNTUAL_89	
CARGA	Load pattern	CARGA	1,
PUNTUAL_90		PUNTUAL_90	
CARGA	Load pattern	CARGA	1,
PUNTUAL_91		PUNTUAL_91	
CARGA	Load pattern	CARGA	1,
PUNTUAL_92		PUNTUAL_92	
CARGA	Load pattern	CARGA	1,
PUNTUAL_93		PUNTUAL_93	
CARGA	Load pattern	CARGA	1,
PUNTUAL_94		PUNTUAL_94	
CARGA	Load pattern	CARGA	1,
PUNTUAL_95		PUNTUAL_95	
CARGA	Load pattern	CARGA	1,
PUNTUAL_96		PUNTUAL_96	
CARGA	Load pattern	CARGA	1,
PUNTUAL_97		PUNTUAL_97	

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
CARGA	Load pattern	CARGA	1,
PUNTUAL_98		PUNTUAL_98	
CARGA	Load pattern	CARGA	1,
PUNTUAL_99		PUNTUAL_99	
CARGA	Load pattern	CARGA	1,
PUNTUAL_100		PUNTUAL_100	
CARGA	Load pattern	CARGA	1,
PUNTUAL_101		PUNTUAL_101	
CARGA	Load pattern	CARGA	1,
PUNTUAL_102		PUNTUAL_102	
CARGA	Load pattern	CARGA	1,
PUNTUAL_103		PUNTUAL_103	
CARGA	Load pattern	CARGA	1,
PUNTUAL_104		PUNTUAL_104	
CARGA	Load pattern	CARGA	1,
PUNTUAL_105		PUNTUAL_105	
CARGA	Load pattern	CARGA	1,
PUNTUAL_106		PUNTUAL_106	
CARGA	Load pattern	CARGA	1,
PUNTUAL_107		PUNTUAL_107	
CARGA	Load pattern	CARGA	1,
PUNTUAL_108		PUNTUAL_108	
CARGA	Load pattern	CARGA	1,
PUNTUAL_109		PUNTUAL_109	
CARGA	Load pattern	CARGA	1,
PUNTUAL_110		PUNTUAL_110	
CARGA	Load pattern	CARGA	1,
PUNTUAL_111		PUNTUAL_111	
CARGA	Load pattern	CARGA	1,
PUNTUAL_112		PUNTUAL_112	
CARGA	Load pattern	CARGA	1,
PUNTUAL_113		PUNTUAL_113	
CARGA	Load pattern	CARGA	1,
PUNTUAL_114		PUNTUAL_114	
CARGA	Load pattern	CARGA	1,
PUNTUAL_115		PUNTUAL_115	
CARGA	Load pattern	CARGA	1,
PUNTUAL_116		PUNTUAL_116	
CARGA	Load pattern	CARGA	1,
PUNTUAL_117		PUNTUAL_117	
CARGA	Load pattern	CARGA	1,
PUNTUAL_118		PUNTUAL_118	
CARGA	Load pattern	CARGA	1,
PUNTUAL_119		PUNTUAL_119	
CARGA	Load pattern	CARGA	1,
PUNTUAL_120		PUNTUAL_120	
CARGA	Load pattern	CARGA	1,
PUNTUAL_121		PUNTUAL_121	
CARGA	Load pattern	CARGA	1,
PUNTUAL_122		PUNTUAL_122	
CARGA	Load pattern	CARGA	1,
PUNTUAL_123		PUNTUAL_123	
CARGA	Load pattern	CARGA	1,
PUNTUAL_124		PUNTUAL_124	
CARGA	Load pattern	CARGA	1,
PUNTUAL_125		PUNTUAL_125	
CARGA	Load pattern	CARGA	1,
PUNTUAL_126		PUNTUAL_126	
CARGA	Load pattern	CARGA	1,
PUNTUAL_127		PUNTUAL_127	

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
CARGA	Load pattern	CARGA	1,
PUNTUAL_128		PUNTUAL_128	
CARGA	Load pattern	CARGA	1,
PUNTUAL_129		PUNTUAL_129	
CARGA	Load pattern	CARGA	1,
PUNTUAL_130		PUNTUAL_130	
CARGA	Load pattern	CARGA	1,
PUNTUAL_131		PUNTUAL_131	
CARGA	Load pattern	CARGA	1,
PUNTUAL_132		PUNTUAL_132	
CARGA	Load pattern	CARGA	1,
PUNTUAL_133		PUNTUAL_133	
CARGA	Load pattern	CARGA	1,
PUNTUAL_134		PUNTUAL_134	
CARGA	Load pattern	CARGA	1,
PUNTUAL_135		PUNTUAL_135	
CARGA	Load pattern	CARGA	1,
PUNTUAL_136		PUNTUAL_136	
CARGA	Load pattern	CARGA	1,
PUNTUAL_137		PUNTUAL_137	
CARGA	Load pattern	CARGA	1,
PUNTUAL_138		PUNTUAL_138	
CARGA	Load pattern	CARGA	1,
PUNTUAL_139		PUNTUAL_139	
CARGA	Load pattern	CARGA	1,
PUNTUAL_140		PUNTUAL_140	
CARGA	Load pattern	CARGA	1,
PUNTUAL_141		PUNTUAL_141	
CARGA	Load pattern	CARGA	1,
PUNTUAL_142		PUNTUAL_142	
CARGA	Load pattern	CARGA	1,
PUNTUAL_143		PUNTUAL_143	
CARGA	Load pattern	CARGA	1,
PUNTUAL_144		PUNTUAL_144	
CARGA	Load pattern	CARGA	1,
PUNTUAL_145		PUNTUAL_145	
CARGA	Load pattern	CARGA	1,
PUNTUAL_146		PUNTUAL_146	
CARGA	Load pattern	CARGA	1,
PUNTUAL_147		PUNTUAL_147	
CARGA	Load pattern	CARGA	1,
PUNTUAL_148		PUNTUAL_148	
CARGA	Load pattern	CARGA	1,
PUNTUAL_149		PUNTUAL_149	
CARGA	Load pattern	CARGA	1,
PUNTUAL_150		PUNTUAL_150	
CARGA	Load pattern	CARGA	1,
PUNTUAL_151		PUNTUAL_151	
CARGA	Load pattern	CARGA	1,
PUNTUAL_152		PUNTUAL_152	
CARGA	Load pattern	CARGA	1,
PUNTUAL_153		PUNTUAL_153	
CARGA	Load pattern	CARGA	1,
PUNTUAL_154		PUNTUAL_154	
CARGA	Load pattern	CARGA	1,
PUNTUAL_155		PUNTUAL_155	
CARGA	Load pattern	CARGA	1,
PUNTUAL_156		PUNTUAL_156	
CARGA	Load pattern	CARGA	1,
PUNTUAL_157		PUNTUAL_157	

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
CARGA	Load pattern	CARGA	1,
PUNTUAL_158		PUNTUAL_158	
CARGA	Load pattern	CARGA	1,
PUNTUAL_159		PUNTUAL_159	
CARGA	Load pattern	CARGA	1,
PUNTUAL_160		PUNTUAL_160	
CARGA	Load pattern	CARGA	1,
PUNTUAL_161		PUNTUAL_161	
CARGA	Load pattern	CARGA	1,
PUNTUAL_162		PUNTUAL_162	
CARGA	Load pattern	CARGA	1,
PUNTUAL_163		PUNTUAL_163	
CARGA	Load pattern	CARGA	1,
PUNTUAL_164		PUNTUAL_164	
CARGA	Load pattern	CARGA	1,
PUNTUAL_165		PUNTUAL_165	
CARGA	Load pattern	CARGA	1,
PUNTUAL_166		PUNTUAL_166	
CARGA	Load pattern	CARGA	1,
PUNTUAL_167		PUNTUAL_167	
CARGA	Load pattern	CARGA	1,
PUNTUAL_168		PUNTUAL_168	
CARGA	Load pattern	CARGA	1,
PUNTUAL_169		PUNTUAL_169	
CARGA	Load pattern	CARGA	1,
PUNTUAL_170		PUNTUAL_170	
CARGA	Load pattern	CARGA	1,
PUNTUAL_171		PUNTUAL_171	
CARGA	Load pattern	CARGA	1,
PUNTUAL_172		PUNTUAL_172	
CARGA	Load pattern	CARGA	1,
PUNTUAL_173		PUNTUAL_173	
CARGA	Load pattern	CARGA	1,
PUNTUAL_174		PUNTUAL_174	
CARGA	Load pattern	CARGA	1,
PUNTUAL_175		PUNTUAL_175	
CARGA	Load pattern	CARGA	1,
PUNTUAL_176		PUNTUAL_176	
CARGA	Load pattern	CARGA	1,
PUNTUAL_177		PUNTUAL_177	
CARGA	Load pattern	CARGA	1,
PUNTUAL_178		PUNTUAL_178	
CARGA	Load pattern	CARGA	1,
PUNTUAL_179		PUNTUAL_179	
CARGA	Load pattern	CARGA	1,
PUNTUAL_180		PUNTUAL_180	
CARGA	Load pattern	CARGA	1,
PUNTUAL_181		PUNTUAL_181	
CARGA	Load pattern	CARGA	1,
PUNTUAL_182		PUNTUAL_182	
CARGA	Load pattern	CARGA	1,
PUNTUAL_183		PUNTUAL_183	
CARGA	Load pattern	CARGA	1,
PUNTUAL_184		PUNTUAL_184	
CARGA	Load pattern	CARGA	1,
PUNTUAL_185		PUNTUAL_185	
CARGA	Load pattern	CARGA	1,
PUNTUAL_186		PUNTUAL_186	
CARGA	Load pattern	CARGA	1,
PUNTUAL_187		PUNTUAL_187	

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
CARGA PUNTUAL_188	Load pattern	CARGA PUNTUAL_188	1,
CARGA PUNTUAL_189	Load pattern	CARGA PUNTUAL_189	1,

Table: Joint Loads - Force, Part 1 of 2

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
1	CARGA PUNTUAL_1	GLOBAL	0,	0,	-510,	0,	0,
2	CARGA PUNTUAL_2	GLOBAL	0,	0,	-510,	0,	0,
3	CARGA PUNTUAL_3	GLOBAL	0,	0,	-510,	0,	0,
4	CARGA PUNTUAL_4	GLOBAL	0,	0,	-510,	0,	0,
5	CARGA PUNTUAL_5	GLOBAL	0,	0,	-510,	0,	0,
6	CARGA PUNTUAL_6	GLOBAL	0,	0,	-510,	0,	0,
7	CARGA PUNTUAL_7	GLOBAL	0,	0,	-510,	0,	0,
8	CARGA PUNTUAL_8	GLOBAL	0,	0,	-510,	0,	0,
9	CARGA PUNTUAL_9	GLOBAL	0,	0,	-510,	0,	0,
10	CARGA PUNTUAL_10	GLOBAL	0,	0,	-510,	0,	0,
11	CARGA PUNTUAL_11	GLOBAL	0,	0,	-510,	0,	0,
12	CARGA PUNTUAL_12	GLOBAL	0,	0,	-510,	0,	0,
13	CARGA PUNTUAL_13	GLOBAL	0,	0,	-510,	0,	0,
14	CARGA PUNTUAL_14	GLOBAL	0,	0,	-510,	0,	0,
15	CARGA PUNTUAL_15	GLOBAL	0,	0,	-510,	0,	0,
16	CARGA PUNTUAL_16	GLOBAL	0,	0,	-510,	0,	0,
17	CARGA PUNTUAL_17	GLOBAL	0,	0,	-510,	0,	0,
18	CARGA PUNTUAL_18	GLOBAL	0,	0,	-510,	0,	0,
19	CARGA PUNTUAL_19	GLOBAL	0,	0,	-510,	0,	0,
20	CARGA PUNTUAL_20	GLOBAL	0,	0,	-510,	0,	0,
21	CARGA PUNTUAL_21	GLOBAL	0,	0,	-510,	0,	0,
22	CARGA PUNTUAL_22	GLOBAL	0,	0,	-510,	0,	0,
23	CARGA PUNTUAL_23	GLOBAL	0,	0,	-510,	0,	0,
24	CARGA PUNTUAL_24	GLOBAL	0,	0,	-510,	0,	0,

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
25	CARGA PUNTUAL_25	GLOBAL	0,	0,	-510,	0,	0,
26	CARGA PUNTUAL_26	GLOBAL	0,	0,	-510,	0,	0,
27	CARGA PUNTUAL_27	GLOBAL	0,	0,	-510,	0,	0,
28	CARGA PUNTUAL_28	GLOBAL	0,	0,	-510,	0,	0,
29	CARGA PUNTUAL_29	GLOBAL	0,	0,	-510,	0,	0,
30	CARGA PUNTUAL_30	GLOBAL	0,	0,	-510,	0,	0,
31	CARGA PUNTUAL_31	GLOBAL	0,	0,	-510,	0,	0,
32	CARGA PUNTUAL_32	GLOBAL	0,	0,	-510,	0,	0,
33	CARGA PUNTUAL_33	GLOBAL	0,	0,	-510,	0,	0,
34	CARGA PUNTUAL_34	GLOBAL	0,	0,	-510,	0,	0,
35	CARGA PUNTUAL_35	GLOBAL	0,	0,	-510,	0,	0,
36	CARGA PUNTUAL_36	GLOBAL	0,	0,	-510,	0,	0,
37	CARGA PUNTUAL_37	GLOBAL	0,	0,	-510,	0,	0,
38	CARGA PUNTUAL_38	GLOBAL	0,	0,	-510,	0,	0,
39	CARGA PUNTUAL_39	GLOBAL	0,	0,	-510,	0,	0,
40	CARGA PUNTUAL_40	GLOBAL	0,	0,	-510,	0,	0,
41	CARGA PUNTUAL_41	GLOBAL	0,	0,	-510,	0,	0,
42	CARGA PUNTUAL_42	GLOBAL	0,	0,	-510,	0,	0,
43	CARGA PUNTUAL_43	GLOBAL	0,	0,	-510,	0,	0,
44	CARGA PUNTUAL_44	GLOBAL	0,	0,	-510,	0,	0,
45	CARGA PUNTUAL_45	GLOBAL	0,	0,	-510,	0,	0,
46	CARGA PUNTUAL_46	GLOBAL	0,	0,	-510,	0,	0,
47	CARGA PUNTUAL_47	GLOBAL	0,	0,	-510,	0,	0,
48	CARGA PUNTUAL_48	GLOBAL	0,	0,	-510,	0,	0,
49	CARGA PUNTUAL_49	GLOBAL	0,	0,	-510,	0,	0,
50	CARGA PUNTUAL_50	GLOBAL	0,	0,	-510,	0,	0,
51	CARGA PUNTUAL_51	GLOBAL	0,	0,	-510,	0,	0,
52	CARGA PUNTUAL_52	GLOBAL	0,	0,	-510,	0,	0,
53	CARGA PUNTUAL_53	GLOBAL	0,	0,	-510,	0,	0,
54	CARGA PUNTUAL_54	GLOBAL	0,	0,	-510,	0,	0,

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
55	CARGA PUNTUAL_55	GLOBAL	0,	0,	-510,	0,	0,
56	CARGA PUNTUAL_56	GLOBAL	0,	0,	-510,	0,	0,
57	CARGA PUNTUAL_57	GLOBAL	0,	0,	-510,	0,	0,
58	CARGA PUNTUAL_58	GLOBAL	0,	0,	-510,	0,	0,
59	CARGA PUNTUAL_59	GLOBAL	0,	0,	-510,	0,	0,
60	CARGA PUNTUAL_60	GLOBAL	0,	0,	-510,	0,	0,
61	CARGA PUNTUAL_61	GLOBAL	0,	0,	-510,	0,	0,
62	CARGA PUNTUAL_62	GLOBAL	0,	0,	-510,	0,	0,
63	CARGA PUNTUAL_63	GLOBAL	0,	0,	-510,	0,	0,
64	CARGA PUNTUAL_64	GLOBAL	0,	0,	-510,	0,	0,
65	CARGA PUNTUAL_65	GLOBAL	0,	0,	-510,	0,	0,
66	CARGA PUNTUAL_66	GLOBAL	0,	0,	-510,	0,	0,
67	CARGA PUNTUAL_67	GLOBAL	0,	0,	-510,	0,	0,
68	CARGA PUNTUAL_68	GLOBAL	0,	0,	-510,	0,	0,
69	CARGA PUNTUAL_69	GLOBAL	0,	0,	-510,	0,	0,
70	CARGA PUNTUAL_70	GLOBAL	0,	0,	-510,	0,	0,
71	CARGA PUNTUAL_71	GLOBAL	0,	0,	-510,	0,	0,
72	CARGA PUNTUAL_72	GLOBAL	0,	0,	-510,	0,	0,
73	CARGA PUNTUAL_73	GLOBAL	0,	0,	-510,	0,	0,
74	CARGA PUNTUAL_74	GLOBAL	0,	0,	-510,	0,	0,
75	CARGA PUNTUAL_75	GLOBAL	0,	0,	-510,	0,	0,
76	CARGA PUNTUAL_76	GLOBAL	0,	0,	-510,	0,	0,
77	CARGA PUNTUAL_77	GLOBAL	0,	0,	-510,	0,	0,
78	CARGA PUNTUAL_78	GLOBAL	0,	0,	-510,	0,	0,
79	CARGA PUNTUAL_79	GLOBAL	0,	0,	-510,	0,	0,
80	CARGA PUNTUAL_80	GLOBAL	0,	0,	-510,	0,	0,
81	CARGA PUNTUAL_81	GLOBAL	0,	0,	-510,	0,	0,
82	CARGA PUNTUAL_82	GLOBAL	0,	0,	-510,	0,	0,
83	CARGA PUNTUAL_83	GLOBAL	0,	0,	-510,	0,	0,
84	CARGA PUNTUAL_84	GLOBAL	0,	0,	-510,	0,	0,

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
85	CARGA PUNTUAL_85	GLOBAL	0,	0,	-510,	0,	0,
86	CARGA PUNTUAL_86	GLOBAL	0,	0,	-510,	0,	0,
87	CARGA PUNTUAL_87	GLOBAL	0,	0,	-510,	0,	0,
88	CARGA PUNTUAL_88	GLOBAL	0,	0,	-510,	0,	0,
89	CARGA PUNTUAL_89	GLOBAL	0,	0,	-510,	0,	0,
90	CARGA PUNTUAL_90	GLOBAL	0,	0,	-510,	0,	0,
91	CARGA PUNTUAL_91	GLOBAL	0,	0,	-510,	0,	0,
92	CARGA PUNTUAL_92	GLOBAL	0,	0,	-510,	0,	0,
93	CARGA PUNTUAL_93	GLOBAL	0,	0,	-510,	0,	0,
94	CARGA PUNTUAL_94	GLOBAL	0,	0,	-510,	0,	0,
95	CARGA PUNTUAL_95	GLOBAL	0,	0,	-510,	0,	0,
96	CARGA PUNTUAL_96	GLOBAL	0,	0,	-510,	0,	0,
97	CARGA PUNTUAL_97	GLOBAL	0,	0,	-510,	0,	0,
98	CARGA PUNTUAL_98	GLOBAL	0,	0,	-510,	0,	0,
99	CARGA PUNTUAL_99	GLOBAL	0,	0,	-510,	0,	0,
100	CARGA PUNTUAL_100	GLOBAL	0,	0,	-510,	0,	0,
101	CARGA PUNTUAL_101	GLOBAL	0,	0,	-510,	0,	0,
102	CARGA PUNTUAL_102	GLOBAL	0,	0,	-510,	0,	0,
103	CARGA PUNTUAL_103	GLOBAL	0,	0,	-510,	0,	0,
104	CARGA PUNTUAL_104	GLOBAL	0,	0,	-510,	0,	0,
105	CARGA PUNTUAL_105	GLOBAL	0,	0,	-510,	0,	0,
106	CARGA PUNTUAL_106	GLOBAL	0,	0,	-510,	0,	0,
107	CARGA PUNTUAL_107	GLOBAL	0,	0,	-510,	0,	0,
108	CARGA PUNTUAL_108	GLOBAL	0,	0,	-510,	0,	0,
109	CARGA PUNTUAL_109	GLOBAL	0,	0,	-510,	0,	0,
110	CARGA PUNTUAL_110	GLOBAL	0,	0,	-510,	0,	0,
111	CARGA PUNTUAL_111	GLOBAL	0,	0,	-510,	0,	0,
112	CARGA PUNTUAL_112	GLOBAL	0,	0,	-510,	0,	0,
113	CARGA PUNTUAL_113	GLOBAL	0,	0,	-510,	0,	0,
114	CARGA PUNTUAL_114	GLOBAL	0,	0,	-510,	0,	0,

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
115	CARGA PUNTUAL_115	GLOBAL	0,	0,	-510,	0,	0,
116	CARGA PUNTUAL_116	GLOBAL	0,	0,	-510,	0,	0,
117	CARGA PUNTUAL_117	GLOBAL	0,	0,	-510,	0,	0,
118	CARGA PUNTUAL_118	GLOBAL	0,	0,	-510,	0,	0,
119	CARGA PUNTUAL_119	GLOBAL	0,	0,	-510,	0,	0,
120	CARGA PUNTUAL_120	GLOBAL	0,	0,	-510,	0,	0,
121	CARGA PUNTUAL_121	GLOBAL	0,	0,	-510,	0,	0,
122	CARGA PUNTUAL_122	GLOBAL	0,	0,	-510,	0,	0,
123	CARGA PUNTUAL_123	GLOBAL	0,	0,	-510,	0,	0,
124	CARGA PUNTUAL_124	GLOBAL	0,	0,	-510,	0,	0,
125	CARGA PUNTUAL_125	GLOBAL	0,	0,	-510,	0,	0,
126	CARGA PUNTUAL_126	GLOBAL	0,	0,	-510,	0,	0,
127	CARGA PUNTUAL_127	GLOBAL	0,	0,	-510,	0,	0,
128	CARGA PUNTUAL_128	GLOBAL	0,	0,	-510,	0,	0,
129	CARGA PUNTUAL_129	GLOBAL	0,	0,	-510,	0,	0,
130	CARGA PUNTUAL_130	GLOBAL	0,	0,	-510,	0,	0,
131	CARGA PUNTUAL_131	GLOBAL	0,	0,	-510,	0,	0,
132	CARGA PUNTUAL_132	GLOBAL	0,	0,	-510,	0,	0,
133	CARGA PUNTUAL_133	GLOBAL	0,	0,	-510,	0,	0,
134	CARGA PUNTUAL_134	GLOBAL	0,	0,	-510,	0,	0,
135	CARGA PUNTUAL_135	GLOBAL	0,	0,	-510,	0,	0,
136	CARGA PUNTUAL_136	GLOBAL	0,	0,	-510,	0,	0,
137	CARGA PUNTUAL_137	GLOBAL	0,	0,	-510,	0,	0,
138	CARGA PUNTUAL_138	GLOBAL	0,	0,	-510,	0,	0,
139	CARGA PUNTUAL_139	GLOBAL	0,	0,	-510,	0,	0,
140	CARGA PUNTUAL_140	GLOBAL	0,	0,	-510,	0,	0,
141	CARGA PUNTUAL_141	GLOBAL	0,	0,	-510,	0,	0,
142	CARGA PUNTUAL_142	GLOBAL	0,	0,	-510,	0,	0,
143	CARGA PUNTUAL_143	GLOBAL	0,	0,	-510,	0,	0,
144	CARGA PUNTUAL_144	GLOBAL	0,	0,	-510,	0,	0,

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
145	CARGA PUNTUAL_145	GLOBAL	0,	0,	-510,	0,	0,
146	CARGA PUNTUAL_146	GLOBAL	0,	0,	-510,	0,	0,
147	CARGA PUNTUAL_147	GLOBAL	0,	0,	-510,	0,	0,
148	CARGA PUNTUAL_148	GLOBAL	0,	0,	-510,	0,	0,
149	CARGA PUNTUAL_149	GLOBAL	0,	0,	-510,	0,	0,
150	CARGA PUNTUAL_150	GLOBAL	0,	0,	-510,	0,	0,
151	CARGA PUNTUAL_151	GLOBAL	0,	0,	-510,	0,	0,
152	CARGA PUNTUAL_152	GLOBAL	0,	0,	-510,	0,	0,
153	CARGA PUNTUAL_153	GLOBAL	0,	0,	-510,	0,	0,
154	CARGA PUNTUAL_154	GLOBAL	0,	0,	-510,	0,	0,
155	CARGA PUNTUAL_155	GLOBAL	0,	0,	-510,	0,	0,
156	CARGA PUNTUAL_156	GLOBAL	0,	0,	-510,	0,	0,
157	CARGA PUNTUAL_157	GLOBAL	0,	0,	-510,	0,	0,
158	CARGA PUNTUAL_158	GLOBAL	0,	0,	-510,	0,	0,
159	CARGA PUNTUAL_159	GLOBAL	0,	0,	-510,	0,	0,
160	CARGA PUNTUAL_160	GLOBAL	0,	0,	-510,	0,	0,
161	CARGA PUNTUAL_161	GLOBAL	0,	0,	-510,	0,	0,
162	CARGA PUNTUAL_162	GLOBAL	0,	0,	-510,	0,	0,
163	CARGA PUNTUAL_163	GLOBAL	0,	0,	-510,	0,	0,
164	CARGA PUNTUAL_164	GLOBAL	0,	0,	-510,	0,	0,
165	CARGA PUNTUAL_165	GLOBAL	0,	0,	-510,	0,	0,
166	CARGA PUNTUAL_166	GLOBAL	0,	0,	-510,	0,	0,
167	CARGA PUNTUAL_167	GLOBAL	0,	0,	-510,	0,	0,
168	CARGA PUNTUAL_168	GLOBAL	0,	0,	-510,	0,	0,
169	CARGA PUNTUAL_169	GLOBAL	0,	0,	-510,	0,	0,
170	CARGA PUNTUAL_170	GLOBAL	0,	0,	-510,	0,	0,
171	CARGA PUNTUAL_171	GLOBAL	0,	0,	-510,	0,	0,
172	CARGA PUNTUAL_172	GLOBAL	0,	0,	-510,	0,	0,
173	CARGA PUNTUAL_173	GLOBAL	0,	0,	-510,	0,	0,
174	CARGA PUNTUAL_174	GLOBAL	0,	0,	-510,	0,	0,

Table: Joint Loads - Force, Part 1 of 2

Joint	LoadPat	CoordSys	F1 KN	F2 KN	F3 KN	M1 KN-m	M2 KN-m
175	CARGA PUNTUAL_175	GLOBAL	0,	0,	-510,	0,	0,
176	CARGA PUNTUAL_176	GLOBAL	0,	0,	-510,	0,	0,
177	CARGA PUNTUAL_177	GLOBAL	0,	0,	-510,	0,	0,
178	CARGA PUNTUAL_178	GLOBAL	0,	0,	-510,	0,	0,
179	CARGA PUNTUAL_179	GLOBAL	0,	0,	-510,	0,	0,
180	CARGA PUNTUAL_180	GLOBAL	0,	0,	-510,	0,	0,
181	CARGA PUNTUAL_181	GLOBAL	0,	0,	-510,	0,	0,
182	CARGA PUNTUAL_182	GLOBAL	0,	0,	-510,	0,	0,
183	CARGA PUNTUAL_183	GLOBAL	0,	0,	-510,	0,	0,
184	CARGA PUNTUAL_184	GLOBAL	0,	0,	-510,	0,	0,
185	CARGA PUNTUAL_185	GLOBAL	0,	0,	-510,	0,	0,
186	CARGA PUNTUAL_186	GLOBAL	0,	0,	-510,	0,	0,
187	CARGA PUNTUAL_187	GLOBAL	0,	0,	-510,	0,	0,
188	CARGA PUNTUAL_188	GLOBAL	0,	0,	-510,	0,	0,
189	CARGA PUNTUAL_189	GLOBAL	0,	0,	-510,	0,	0,

Table: Joint Loads - Force, Part 2 of 2

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m	GUID
1	CARGA PUNTUAL_1	0,	
2	CARGA PUNTUAL_2	0,	
3	CARGA PUNTUAL_3	0,	
4	CARGA PUNTUAL_4	0,	
5	CARGA PUNTUAL_5	0,	
6	CARGA PUNTUAL_6	0,	
7	CARGA PUNTUAL_7	0,	
8	CARGA PUNTUAL_8	0,	
9	CARGA PUNTUAL_9	0,	
10	CARGA PUNTUAL_10	0,	
11	CARGA PUNTUAL_11	0,	

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m	GUID
12	CARGA	0,	
	PUNTUAL_12		
13	CARGA	0,	
	PUNTUAL_13		
14	CARGA	0,	
	PUNTUAL_14		
15	CARGA	0,	
	PUNTUAL_15		
16	CARGA	0,	
	PUNTUAL_16		
17	CARGA	0,	
	PUNTUAL_17		
18	CARGA	0,	
	PUNTUAL_18		
19	CARGA	0,	
	PUNTUAL_19		
20	CARGA	0,	
	PUNTUAL_20		
21	CARGA	0,	
	PUNTUAL_21		
22	CARGA	0,	
	PUNTUAL_22		
23	CARGA	0,	
	PUNTUAL_23		
24	CARGA	0,	
	PUNTUAL_24		
25	CARGA	0,	
	PUNTUAL_25		
26	CARGA	0,	
	PUNTUAL_26		
27	CARGA	0,	
	PUNTUAL_27		
28	CARGA	0,	
	PUNTUAL_28		
29	CARGA	0,	
	PUNTUAL_29		
30	CARGA	0,	
	PUNTUAL_30		
31	CARGA	0,	
	PUNTUAL_31		
32	CARGA	0,	
	PUNTUAL_32		
33	CARGA	0,	
	PUNTUAL_33		
34	CARGA	0,	
	PUNTUAL_34		
35	CARGA	0,	
	PUNTUAL_35		
36	CARGA	0,	
	PUNTUAL_36		
37	CARGA	0,	
	PUNTUAL_37		
38	CARGA	0,	
	PUNTUAL_38		
39	CARGA	0,	
	PUNTUAL_39		
40	CARGA	0,	
	PUNTUAL_40		
41	CARGA	0,	
	PUNTUAL_41		

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m	GUID
42	CARGA	0,	
	PUNTUAL_42		
43	CARGA	0,	
	PUNTUAL_43		
44	CARGA	0,	
	PUNTUAL_44		
45	CARGA	0,	
	PUNTUAL_45		
46	CARGA	0,	
	PUNTUAL_46		
47	CARGA	0,	
	PUNTUAL_47		
48	CARGA	0,	
	PUNTUAL_48		
49	CARGA	0,	
	PUNTUAL_49		
50	CARGA	0,	
	PUNTUAL_50		
51	CARGA	0,	
	PUNTUAL_51		
52	CARGA	0,	
	PUNTUAL_52		
53	CARGA	0,	
	PUNTUAL_53		
54	CARGA	0,	
	PUNTUAL_54		
55	CARGA	0,	
	PUNTUAL_55		
56	CARGA	0,	
	PUNTUAL_56		
57	CARGA	0,	
	PUNTUAL_57		
58	CARGA	0,	
	PUNTUAL_58		
59	CARGA	0,	
	PUNTUAL_59		
60	CARGA	0,	
	PUNTUAL_60		
61	CARGA	0,	
	PUNTUAL_61		
62	CARGA	0,	
	PUNTUAL_62		
63	CARGA	0,	
	PUNTUAL_63		
64	CARGA	0,	
	PUNTUAL_64		
65	CARGA	0,	
	PUNTUAL_65		
66	CARGA	0,	
	PUNTUAL_66		
67	CARGA	0,	
	PUNTUAL_67		
68	CARGA	0,	
	PUNTUAL_68		
69	CARGA	0,	
	PUNTUAL_69		
70	CARGA	0,	
	PUNTUAL_70		
71	CARGA	0,	
	PUNTUAL_71		

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m	GUID
72	CARGA	0,	
	PUNTUAL_72		
73	CARGA	0,	
	PUNTUAL_73		
74	CARGA	0,	
	PUNTUAL_74		
75	CARGA	0,	
	PUNTUAL_75		
76	CARGA	0,	
	PUNTUAL_76		
77	CARGA	0,	
	PUNTUAL_77		
78	CARGA	0,	
	PUNTUAL_78		
79	CARGA	0,	
	PUNTUAL_79		
80	CARGA	0,	
	PUNTUAL_80		
81	CARGA	0,	
	PUNTUAL_81		
82	CARGA	0,	
	PUNTUAL_82		
83	CARGA	0,	
	PUNTUAL_83		
84	CARGA	0,	
	PUNTUAL_84		
85	CARGA	0,	
	PUNTUAL_85		
86	CARGA	0,	
	PUNTUAL_86		
87	CARGA	0,	
	PUNTUAL_87		
88	CARGA	0,	
	PUNTUAL_88		
89	CARGA	0,	
	PUNTUAL_89		
90	CARGA	0,	
	PUNTUAL_90		
91	CARGA	0,	
	PUNTUAL_91		
92	CARGA	0,	
	PUNTUAL_92		
93	CARGA	0,	
	PUNTUAL_93		
94	CARGA	0,	
	PUNTUAL_94		
95	CARGA	0,	
	PUNTUAL_95		
96	CARGA	0,	
	PUNTUAL_96		
97	CARGA	0,	
	PUNTUAL_97		
98	CARGA	0,	
	PUNTUAL_98		
99	CARGA	0,	
	PUNTUAL_99		
100	CARGA	0,	
	PUNTUAL_100		
101	CARGA	0,	
	PUNTUAL_101		

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m	GUID
102	CARGA	0,	
	PUNTUAL_102		
103	CARGA	0,	
	PUNTUAL_103		
104	CARGA	0,	
	PUNTUAL_104		
105	CARGA	0,	
	PUNTUAL_105		
106	CARGA	0,	
	PUNTUAL_106		
107	CARGA	0,	
	PUNTUAL_107		
108	CARGA	0,	
	PUNTUAL_108		
109	CARGA	0,	
	PUNTUAL_109		
110	CARGA	0,	
	PUNTUAL_110		
111	CARGA	0,	
	PUNTUAL_111		
112	CARGA	0,	
	PUNTUAL_112		
113	CARGA	0,	
	PUNTUAL_113		
114	CARGA	0,	
	PUNTUAL_114		
115	CARGA	0,	
	PUNTUAL_115		
116	CARGA	0,	
	PUNTUAL_116		
117	CARGA	0,	
	PUNTUAL_117		
118	CARGA	0,	
	PUNTUAL_118		
119	CARGA	0,	
	PUNTUAL_119		
120	CARGA	0,	
	PUNTUAL_120		
121	CARGA	0,	
	PUNTUAL_121		
122	CARGA	0,	
	PUNTUAL_122		
123	CARGA	0,	
	PUNTUAL_123		
124	CARGA	0,	
	PUNTUAL_124		
125	CARGA	0,	
	PUNTUAL_125		
126	CARGA	0,	
	PUNTUAL_126		
127	CARGA	0,	
	PUNTUAL_127		
128	CARGA	0,	
	PUNTUAL_128		
129	CARGA	0,	
	PUNTUAL_129		
130	CARGA	0,	
	PUNTUAL_130		
131	CARGA	0,	
	PUNTUAL_131		

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m	GUID
132	CARGA	0,	
	PUNTUAL_132		
133	CARGA	0,	
	PUNTUAL_133		
134	CARGA	0,	
	PUNTUAL_134		
135	CARGA	0,	
	PUNTUAL_135		
136	CARGA	0,	
	PUNTUAL_136		
137	CARGA	0,	
	PUNTUAL_137		
138	CARGA	0,	
	PUNTUAL_138		
139	CARGA	0,	
	PUNTUAL_139		
140	CARGA	0,	
	PUNTUAL_140		
141	CARGA	0,	
	PUNTUAL_141		
142	CARGA	0,	
	PUNTUAL_142		
143	CARGA	0,	
	PUNTUAL_143		
144	CARGA	0,	
	PUNTUAL_144		
145	CARGA	0,	
	PUNTUAL_145		
146	CARGA	0,	
	PUNTUAL_146		
147	CARGA	0,	
	PUNTUAL_147		
148	CARGA	0,	
	PUNTUAL_148		
149	CARGA	0,	
	PUNTUAL_149		
150	CARGA	0,	
	PUNTUAL_150		
151	CARGA	0,	
	PUNTUAL_151		
152	CARGA	0,	
	PUNTUAL_152		
153	CARGA	0,	
	PUNTUAL_153		
154	CARGA	0,	
	PUNTUAL_154		
155	CARGA	0,	
	PUNTUAL_155		
156	CARGA	0,	
	PUNTUAL_156		
157	CARGA	0,	
	PUNTUAL_157		
158	CARGA	0,	
	PUNTUAL_158		
159	CARGA	0,	
	PUNTUAL_159		
160	CARGA	0,	
	PUNTUAL_160		
161	CARGA	0,	
	PUNTUAL_161		

Table: Joint Loads - Force, Part 2 of 2

Joint	LoadPat	M3 KN-m	GUID
162	CARGA PUNTUAL_162	0,	
163	CARGA PUNTUAL_163	0,	
164	CARGA PUNTUAL_164	0,	
165	CARGA PUNTUAL_165	0,	
166	CARGA PUNTUAL_166	0,	
167	CARGA PUNTUAL_167	0,	
168	CARGA PUNTUAL_168	0,	
169	CARGA PUNTUAL_169	0,	
170	CARGA PUNTUAL_170	0,	
171	CARGA PUNTUAL_171	0,	
172	CARGA PUNTUAL_172	0,	
173	CARGA PUNTUAL_173	0,	
174	CARGA PUNTUAL_174	0,	
175	CARGA PUNTUAL_175	0,	
176	CARGA PUNTUAL_176	0,	
177	CARGA PUNTUAL_177	0,	
178	CARGA PUNTUAL_178	0,	
179	CARGA PUNTUAL_179	0,	
180	CARGA PUNTUAL_180	0,	
181	CARGA PUNTUAL_181	0,	
182	CARGA PUNTUAL_182	0,	
183	CARGA PUNTUAL_183	0,	
184	CARGA PUNTUAL_184	0,	
185	CARGA PUNTUAL_185	0,	
186	CARGA PUNTUAL_186	0,	
187	CARGA PUNTUAL_187	0,	
188	CARGA PUNTUAL_188	0,	
189	CARGA PUNTUAL_189	0,	