A5. CÁLCULO ESTRUCTURAL

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1. PILARES

1.1. AP1

| Sección de acero laminado - Temperatura ambiente | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Sección | Posición | Comprobaciones | | | | | | | Esfuerzos pésimos | | | | | | | Estado |
|  | w | Nc  (%) | MY  (%) | MZ  (%) | NMYMZ  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CASETÓN (7.75 - 10.7 m) | 2xUPN 80([]) | Cabeza | Cumple | Cumple | 15.8 | 4.9 | 6.4 | 20.7 | 20.7 | G, Q, V(1) | Nc,NMYMZ | 50.3 | -0.4 | 0.8 | -0.4 | 0.2 | Cumple |
| G, Q, V(2) | MY | 40.9 | -0.8 | 0.1 | 0.0 | 0.4 |
| G, V(3) | MZ | 44.5 | -0.2 | 1.1 | -0.5 | 0.1 |
| Pie | Cumple | Cumple | 16.0 | 0.9 | 1.5 | 17.0 | 17.0 | G, Q, V(1) | Nc,NMYMZ | 50.9 | 0.1 | -0.2 | -0.4 | 0.2 | Cumple |
| G, Q, V(2) | MY | 41.5 | 0.2 | -0.1 | 0.0 | 0.4 |
| G, V(3) | MZ | 45.1 | 0.0 | -0.3 | -0.5 | 0.1 |
| *Notas:*  *(1) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·Qa(G2)+0.9·V(-Xexc.+)*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)*  *(3) 1.35·PP+1.35·CM+1.5·V(-Xexc.+)* | | | | | | | | | | | | | | | | | |

| Sección de acero laminado - Situación de incendio | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Sección | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Nc  (%) | MY  (%) | MZ  (%) | NMYMZ  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CASETÓN (7.75 - 10.7 m) | 2xUPN 80([]) | Cabeza | 37.3 | 7.7 | 7.0 | 46.4 | 46.4 | G, Q, V(1) | Nc,NMYMZ | 31.6 | -0.2 | 0.4 | -0.2 | 0.1 | Cumple |
| G, Q, V(2) | MY | 30.3 | -0.5 | 0.1 | -0.1 | 0.2 |
| G, V(3) | MZ | 31.4 | -0.2 | 0.4 | -0.2 | 0.1 |
| Pie | 37.8 | 1.4 | 2.0 | 40.0 | 40.0 | G, Q, V(1) | Nc,NMYMZ | 32.0 | 0.0 | -0.1 | -0.2 | 0.1 | Cumple |
| G, Q, V(2) | MY | 30.7 | 0.1 | -0.1 | -0.1 | 0.2 |
| G, V(3) | MZ | 31.9 | 0.0 | -0.1 | -0.2 | 0.1 |
| *Notas:*  *(1) PP+CM+0.6·Qa(C)+0.5·V(-Xexc.+)*  *(2) PP+CM+0.6·Qa(C)+0.5·V(+Yexc.-)*  *(3) PP+CM+0.5·V(-Xexc.+)* | | | | | | | | | | | | | | | |

1.2. P1

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | 18.2 | 31.4 | 31.4 | G, Q, V(2) | Q,N,M | 58.1 | -14.0 | -0.1 | 0.0 | 11.5 | Cumple |
| 6.95 m | Cumple | Cumple | 17.8 | 75.4 | 75.4 | G, Q, V(2) | Q,N,M | 68.7 | 28.0 | 0.1 | 0.0 | 11.5 | Cumple |
| 4.4 m | Cumple | Cumple | 17.8 | 75.4 | 75.4 | G, Q, V(2) | Q,N,M | 68.7 | 28.0 | 0.1 | 0.0 | 11.5 | Cumple |
| Pie | Cumple | Cumple | 17.8 | 75.4 | 75.4 | G, Q, V(2) | Q,N,M | 68.7 | 28.0 | 0.1 | 0.0 | 11.5 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | 19.6 | 90.2 | 90.2 | G, Q, V(2) | Q,N,M | 196.7 | -32.8 | 3.3 | 0.6 | 15.7 | Cumple |
| 2.93 m | Cumple | Cumple | 19.6 | 90.2 | 90.2 | G, Q, V(2) | Q,N,M | 196.7 | -32.8 | 3.3 | 0.6 | 15.7 | Cumple |
| Pie | Cumple | Cumple | 21.7 | 79.0 | 79.0 | G, Q, V(2) | Q,N,M | 207.0 | 29.2 | 5.4 | 0.6 | 17.7 | Cumple |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 4.8 | 79.0 | 79.0 | G, Q, V(2) | Q,N,M | 207.0 | 29.2 | 5.4 | 0.6 | 17.7 | Cumple |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 43.2 | -5.8 | 2.3 | -1.6 | 4.9 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 51.0 | 12.0 | -3.6 | -1.6 | 4.9 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 51.0 | 12.0 | -3.6 | -1.6 | 4.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 51.0 | 12.0 | -3.6 | -1.6 | 4.9 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 135.0 | -12.0 | 5.7 | -1.9 | 5.0 | Cumple |
| 2.93 m | Cumple | Cumple | G(1) | 135.0 | -12.0 | 5.7 | -1.9 | 5.0 | Cumple |
| Pie | Cumple | Cumple | G(1) | 142.7 | 5.9 | -1.3 | -1.9 | 5.0 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.3. P2

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | 19.7 | 37.2 | 37.2 | G, Q, V(2) | Q,N,M | 110.0 | -13.7 | -7.3 | 6.4 | 11.1 | Cumple |
| 6.95 m | Cumple | Cumple | 19.3 | 82.1 | 82.1 | G, Q, V(2) | Q,N,M | 120.6 | 26.8 | 16.2 | 6.4 | 11.1 | Cumple |
| 4.4 m | Cumple | Cumple | 19.3 | 82.1 | 82.1 | G, Q, V(2) | Q,N,M | 120.6 | 26.8 | 16.2 | 6.4 | 11.1 | Cumple |
| Pie | Cumple | Cumple | 19.3 | 82.1 | 82.1 | G, Q, V(2) | Q,N,M | 120.6 | 26.8 | 16.2 | 6.4 | 11.1 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | 20.8 | 97.9 | 97.9 | G, Q, V(2) | Q,N,M | 323.6 | -34.1 | -14.7 | 8.4 | 17.0 | Cumple |
| 2.93 m | Cumple | Cumple | 20.8 | 97.9 | 97.9 | G, Q, V(2) | Q,N,M | 323.6 | -34.1 | -14.7 | 8.4 | 17.0 | Cumple |
| Pie | Cumple | Cumple | 22.6 | 96.6 | 96.6 | G, Q, V(2) | Q,N,M | 333.9 | 32.5 | 15.4 | 8.4 | 19.0 | Cumple |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 5.4 | 96.6 | 96.6 | G, Q, V(2) | Q,N,M | 333.9 | 32.5 | 15.4 | 8.4 | 19.0 | Cumple |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 80.2 | -5.0 | -2.5 | 2.4 | 3.9 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 88.0 | 9.3 | 6.1 | 2.4 | 3.9 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 88.0 | 9.3 | 6.1 | 2.4 | 3.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 88.0 | 9.3 | 6.1 | 2.4 | 3.9 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 206.7 | -9.9 | -4.7 | 2.5 | 4.7 | Cumple |
| 2.93 m | Cumple | Cumple | G(1) | 206.7 | -9.9 | -4.7 | 2.5 | 4.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 214.3 | 6.8 | 4.4 | 2.5 | 4.7 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.4. P3

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | 24.4 | 32.7 | 32.7 | G, Q, V(2) | Q,N,M | 69.1 | -16.3 | -9.4 | 6.1 | 13.8 | Cumple |
| 6.95 m | Cumple | Cumple | 23.9 | 75.7 | 75.7 | G, Q, V(2) | Q,N,M | 79.7 | 34.0 | 12.8 | 6.1 | 13.8 | Cumple |
| 4.4 m | Cumple | Cumple | 23.9 | 75.7 | 75.7 | G, Q, V(2) | Q,N,M | 79.7 | 34.0 | 12.8 | 6.1 | 13.8 | Cumple |
| Pie | Cumple | Cumple | 23.9 | 75.7 | Cumple | G, Q, V(2) | Q,N,M | 79.7 | 34.0 | 12.8 | 6.1 | 13.8 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | 23.5 | 96.7 | 96.7 | G, Q, V(2) | Q,N,M | 308.4 | -43.6 | -6.8 | 4.9 | 21.2 | Cumple |
| 3 m | Cumple | Cumple | 23.5 | 96.7 | 96.7 | G, Q, V(2) | Q,N,M | 308.4 | -43.6 | -6.8 | 4.9 | 21.2 | Cumple |
| Pie | Cumple | Cumple | 25.2 | 93.9 | 93.9 | G, Q, V(2) | Q,N,M | 318.9 | 39.5 | 10.9 | 4.9 | 23.2 | Cumple |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 6.3 | 93.9 | 93.9 | G, Q, V(2) | Q,N,M | 318.9 | 39.5 | 10.9 | 4.9 | 23.2 | Cumple |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 47.8 | -6.9 | -4.9 | 3.1 | 5.6 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 55.6 | 13.4 | 6.3 | 3.1 | 5.6 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 55.6 | 13.4 | 6.3 | 3.1 | 5.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 55.6 | 13.4 | 6.3 | 3.1 | 5.6 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 186.3 | -15.5 | -2.4 | 1.5 | 7.4 | Cumple |
| 3 m | Cumple | Cumple | G(1) | 186.3 | -15.5 | -2.4 | 1.5 | 7.4 | Cumple |
| Pie | Cumple | Cumple | G(1) | 194.1 | 11.3 | 3.1 | 1.5 | 7.4 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.5. P4

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 22.2 | 38.8 | 38.8 | G, Q, V(2) | Q,N,M | 61.5 | -14.7 | 9.6 | -5.5 | 12.9 | Cumple |
| 6.95 m | Cumple | Cumple | 21.7 | 98.9 | 98.9 | G, Q, V(2) | Q,N,M | 72.4 | 32.3 | -10.5 | -5.5 | 12.9 | Cumple |
| 4.4 m | Cumple | Cumple | 21.7 | 98.9 | 98.9 | G, Q, V(2) | Q,N,M | 72.4 | 32.3 | -10.5 | -5.5 | 12.9 | Cumple |
| Pie | Cumple | Cumple | 21.7 | 98.9 | 98.9 | G, Q, V(2) | Q,N,M | 72.4 | 32.3 | -10.5 | -5.5 | 12.9 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 27.5 | 92.3 | 92.3 | G, Q, V(2) | Q,N,M | 307.9 | -47.0 | 14.0 | -7.2 | 24.8 | Cumple |
| 0.47 m | Cumple | Cumple | 29.4 | 97.1 | 97.1 | G, Q, V(2) | Q,N,M | 318.8 | 49.2 | -15.2 | -8.2 | 26.9 | Cumple |
| Pie | Cumple | Cumple | 29.4 | 97.1 | 97.1 | G, Q, V(2) | Q,N,M | 318.8 | 49.2 | -15.2 | -8.2 | 26.9 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 6.9 | 97.1 | 97.1 | G, Q, V(2) | Q,N,M | 318.8 | 49.2 | -15.2 | -8.2 | 26.9 | Cumple |
| Cabeza | Cumple | Cumple | 17.4 | 56.6 | 56.6 | G, V(3) | Q | 452.4 | -3.5 | 19.9 | -16.0 | -5.3 | Cumple |
| G, Q, V(2) | N,M | 524.0 | -7.6 | 19.7 | -15.9 | -4.4 |
| -2.7 m | Cumple | Cumple | 17.4 | 72.1 | 72.1 | G, V(3) | Q | 460.9 | -18.7 | -26.1 | -16.0 | -5.3 | Cumple |
| G, Q, V(2) | N,M | 532.6 | -20.3 | -26.0 | -15.9 | -4.4 |
| Pie | Cumple | Cumple | 17.4 | 72.1 | 72.1 | G, V(3) | Q | 460.9 | -18.7 | -26.1 | -16.0 | -5.3 | Cumple |
| G, Q, V(2) | N,M | 532.6 | -20.3 | -26.0 | -15.9 | -4.4 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 3.9 | 72.1 | 72.1 | G, Q, V(2) | Q,N,M | 532.6 | -20.3 | -26.0 | -15.9 | -4.4 | Cumple |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 40.2 | -4.3 | 2.5 | -0.7 | 4.2 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 48.3 | 10.8 | 0.0 | -0.7 | 4.2 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 48.3 | 10.8 | 0.0 | -0.7 | 4.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 48.3 | 10.8 | 0.0 | -0.7 | 4.2 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 181.7 | -15.9 | -0.7 | 0.5 | 8.6 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 189.7 | 15.1 | 1.1 | 0.5 | 8.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 189.7 | 15.1 | 1.1 | 0.5 | 8.6 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 313.1 | -2.9 | 5.3 | -4.2 | -5.2 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 319.5 | -17.9 | -6.6 | -4.2 | -5.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 319.5 | -17.9 | -6.6 | -4.2 | -5.2 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.6. P5

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 16.6 | 24.7 | 24.7 | G, Q, V(2) | Q,N,M | 80.3 | -12.1 | 7.0 | -5.5 | 9.4 | Cumple |
| 6.95 m | Cumple | Cumple | 16.4 | 57.8 | 57.8 | G, Q, V(2) | Q,N,M | 88.4 | 22.1 | -13.1 | -5.5 | 9.4 | Cumple |
| 4.4 m | Cumple | Cumple | 16.4 | 57.8 | 57.8 | G, Q, V(2) | Q,N,M | 88.4 | 22.1 | -13.1 | -5.5 | 9.4 | Cumple |
| Pie | Cumple | Cumple | 16.4 | 57.8 | 57.8 | G, Q, V(2) | Q,N,M | 88.4 | 22.1 | -13.1 | -5.5 | 9.4 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 24.7 | 85.0 | 85.0 | G, Q, V(2) | Q | 230.7 | -32.8 | 20.7 | -10.5 | 18.0 | Cumple |
| G, Q, V(3) | N,M | 296.7 | -35.2 | 21.7 | -10.9 | 19.6 |
| 0.47 m | Cumple | Cumple | 27.1 | 93.2 | 93.2 | G, Q, V(2) | Q | 238.7 | 38.6 | -20.2 | -11.5 | 20.0 | Cumple |
| G, Q, V(3) | N,M | 307.5 | 41.9 | -20.9 | -11.9 | 21.6 |
| Pie | Cumple | Cumple | 27.1 | 93.2 | 93.2 | G, Q, V(2) | Q | 238.7 | 38.6 | -20.2 | -11.5 | 20.0 | Cumple |
| G, Q, V(3) | N,M | 307.5 | 41.9 | -20.9 | -11.9 | 21.6 |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 6.1 | 93.2 | 93.2 | G, Q, V(3) | Q,N,M | 307.5 | 41.9 | -20.9 | -11.9 | 21.6 | Cumple |
| Cabeza | Cumple | Cumple | 20.4 | 57.7 | 57.7 | G, V(4) | Q | 437.5 | -2.9 | 24.1 | -19.0 | -5.6 | Cumple |
| G, Q, V(3) | N,M | 500.3 | -6.8 | 23.6 | -18.7 | -4.7 |
| -2.7 m | Cumple | Cumple | 20.4 | 74.5 | 74.5 | G, V(4) | Q | 446.1 | -19.0 | -30.6 | -19.0 | -5.6 | Cumple |
| G, Q, V(3) | N,M | 508.8 | -20.3 | -29.9 | -18.7 | -4.7 |
| Pie | Cumple | Cumple | 20.4 | 74.5 | 74.5 | G, V(4) | Q | 446.1 | -19.0 | -30.6 | -19.0 | -5.6 | Cumple |
| G, Q, V(3) | N,M | 508.8 | -20.3 | -29.9 | -18.7 | -4.7 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 4.6 | 74.5 | 74.5 | G, V(4) | Q | 446.1 | -19.0 | -30.6 | -19.0 | -5.6 | Cumple |
| G, Q, V(3) | N,M | 508.8 | -20.3 | -29.9 | -18.7 | -4.7 |
| *Notas:*  *(1) La comprobación no procede*  *(2) PP+CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(4) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 78.0 | -2.8 | -0.3 | 0.1 | 1.9 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 86.0 | 4.2 | 0.1 | 0.1 | 1.9 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 86.0 | 4.2 | 0.1 | 0.1 | 1.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 86.0 | 4.2 | 0.1 | 0.1 | 1.9 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 188.7 | -7.0 | 2.8 | -1.3 | 4.5 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 196.7 | 9.2 | -1.9 | -1.3 | 4.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 196.7 | 9.2 | -1.9 | -1.3 | 4.5 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 310.2 | -1.4 | 8.5 | -6.5 | -6.1 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 316.5 | -19.0 | -10.0 | -6.5 | -6.1 | Cumple |
| Pie | Cumple | Cumple | G(1) | 316.5 | -19.0 | -10.0 | -6.5 | -6.1 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.7. P6

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 16.2 | 25.1 | 25.1 | G, Q, V(2) | Q,N,M | 72.2 | -10.9 | 8.1 | -6.2 | 8.4 | Cumple |
| 6.95 m | Cumple | Cumple | 15.9 | 55.7 | 55.7 | G, Q, V(2) | Q,N,M | 80.3 | 19.7 | -14.5 | -6.2 | 8.4 | Cumple |
| 4.4 m | Cumple | Cumple | 15.9 | 55.7 | 55.7 | G, Q, V(2) | Q,N,M | 80.3 | 19.7 | -14.5 | -6.2 | 8.4 | Cumple |
| Pie | Cumple | Cumple | 15.9 | 55.7 | 55.7 | G, Q, V(2) | Q,N,M | 80.3 | 19.7 | -14.5 | -6.2 | 8.4 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 23.9 | 83.0 | 83.0 | G, Q, V(2) | Q | 229.2 | -30.0 | 22.6 | -11.6 | 16.4 | Cumple |
| G, Q, V(3) | N,M | 292.5 | -31.4 | 24.5 | -12.6 | 17.4 |
| 0.47 m | Cumple | Cumple | 26.3 | 91.5 | 91.5 | G, Q, V(2) | Q | 237.2 | 35.7 | -22.4 | -12.6 | 18.5 | Cumple |
| G, Q, V(3) | N,M | 303.3 | 37.9 | -24.0 | -13.5 | 19.5 |
| Pie | Cumple | Cumple | 26.3 | 91.5 | 91.5 | G, Q, V(2) | Q | 237.2 | 35.7 | -22.4 | -12.6 | 18.5 | Cumple |
| G, Q, V(3) | N,M | 303.3 | 37.9 | -24.0 | -13.5 | 19.5 |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 5.8 | 91.5 | 91.5 | G, Q, V(3) | Q,N,M | 303.3 | 37.9 | -24.0 | -13.5 | 19.5 | Cumple |
| Cabeza | Cumple | Cumple | 23.1 | 61.3 | 61.3 | G, V(4) | Q | 442.0 | -2.9 | 28.5 | -22.0 | -4.6 | Cumple |
| G, Q, V(3) | N,M | 503.6 | -6.1 | 27.9 | -21.6 | -3.8 |
| -2.7 m | Cumple | Cumple | 23.1 | 76.3 | 76.3 | G, V(4) | Q | 450.5 | -16.1 | -34.7 | -22.0 | -4.6 | Cumple |
| G, Q, V(3) | N,M | 512.1 | -17.2 | -34.0 | -21.6 | -3.8 |
| Pie | Cumple | Cumple | 23.1 | 76.3 | 76.3 | G, V(4) | Q | 450.5 | -16.1 | -34.7 | -22.0 | -4.6 | Cumple |
| G, Q, V(3) | N,M | 512.1 | -17.2 | -34.0 | -21.6 | -3.8 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 5.1 | 76.3 | 76.3 | G, V(4) | Q | 450.5 | -16.1 | -34.7 | -22.0 | -4.6 | Cumple |
| G, Q, V(3) | N,M | 512.1 | -17.2 | -34.0 | -21.6 | -3.8 |
| *Notas:*  *(1) La comprobación no procede*  *(2) PP+CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(4) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 68.9 | -1.2 | 1.4 | -1.0 | 0.7 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 77.0 | 1.4 | -2.3 | -1.0 | 0.7 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 77.0 | 1.4 | -2.3 | -1.0 | 0.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 77.0 | 1.4 | -2.3 | -1.0 | 0.7 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 180.7 | -3.9 | 5.5 | -2.8 | 2.8 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 188.7 | 6.2 | -4.7 | -2.8 | 2.8 | Cumple |
| Pie | Cumple | Cumple | G(1) | 188.7 | 6.2 | -4.7 | -2.8 | 2.8 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 306.8 | -1.0 | 12.6 | -9.5 | -5.7 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 313.2 | -17.2 | -14.5 | -9.5 | -5.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 313.2 | -17.2 | -14.5 | -9.5 | -5.7 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.8. P7

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 18.1 | 43.7 | 43.7 | G, Q, V(2) | Q | 25.2 | 12.8 | -7.1 | 5.7 | -8.9 | Cumple |
| G, V(3) | N,M | 24.8 | 12.9 | -6.7 | 5.3 | -9.1 |
| 6.95 m | Cumple | Cumple | 17.6 | 71.9 | 71.9 | G, Q, V(2) | Q | 36.1 | -19.5 | 13.9 | 5.7 | -8.9 | Cumple |
| G, V(3) | N,M | 35.6 | -20.2 | 12.5 | 5.3 | -9.1 |
| 4.4 m | Cumple | Cumple | 17.6 | 71.9 | 71.9 | G, Q, V(2) | Q | 36.1 | -19.5 | 13.9 | 5.7 | -8.9 | Cumple |
| G, V(3) | N,M | 35.6 | -20.2 | 12.5 | 5.3 | -9.1 |
| Pie | Cumple | Cumple | 17.6 | 71.9 | 71.9 | G, Q, V(2) | Q | 36.1 | -19.5 | 13.9 | 5.7 | -8.9 | Cumple |
| G, V(3) | N,M | 35.6 | -20.2 | 12.5 | 5.3 | -9.1 |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 25.1 | 80.1 | 80.1 | G, Q, V(2) | Q | 100.0 | 24.8 | -19.2 | 11.0 | -13.1 | Cumple |
| G, V(4) | N,M | 64.5 | 24.7 | -16.0 | 8.9 | -13.0 |
| 0.47 m | Cumple | Cumple | 28.1 | 95.3 | 95.3 | G, Q, V(5) | Q | 81.2 | -27.8 | 21.8 | 11.3 | -14.6 | Cumple |
| G, V(4) | N,M | 72.5 | -28.7 | 19.3 | 9.9 | -15.1 |
| Pie | Cumple | Cumple | 28.1 | 95.3 | 95.3 | G, Q, V(5) | Q | 81.2 | -27.8 | 21.8 | 11.3 | -14.6 | Cumple |
| G, V(4) | N,M | 72.5 | -28.7 | 19.3 | 9.9 | -15.1 |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 4.9 | 95.3 | 95.3 | G, Q, V(2) | Q | 110.8 | -28.9 | 23.5 | 11.9 | -15.2 | Cumple |
| G, V(4) | N,M | 72.5 | -28.7 | 19.3 | 9.9 | -15.1 |
| Cabeza | Cumple | Cumple | 22.7 | 22.3 | 22.7 | G, V(6) | Q | 182.9 | 3.9 | 15.0 | -17.0 | -5.3 | Cumple |
| G, V(7) | N,M | 176.6 | 11.4 | 9.6 | -11.2 | -12.4 |
| -2.7 m | Cumple | Cumple | 22.4 | 86.3 | 86.3 | G, V(6) | Q | 191.5 | -11.4 | -33.9 | -17.0 | -5.3 | Cumple |
| G, Q, V(8) | N,M | 207.7 | -12.7 | -33.6 | -16.4 | -5.8 |
| Pie | Cumple | Cumple | 22.4 | 86.3 | 86.3 | G, V(6) | Q | 191.5 | -11.4 | -33.9 | -17.0 | -5.3 | Cumple |
| G, Q, V(8) | N,M | 207.7 | -12.7 | -33.6 | -16.4 | -5.8 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 4.3 | 86.3 | 86.3 | G, V(6) | Q | 191.5 | -11.4 | -33.9 | -17.0 | -5.3 | Cumple |
| G, Q, V(8) | N,M | 207.7 | -12.7 | -33.6 | -16.4 | -5.8 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.5·V(-Yexc.+)*  *(4) PP+CM+1.5·V(-Yexc.+)*  *(5) PP+CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(6) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(7) 1.35·PP+1.35·CM+1.5·V(+Xexc.-)*  *(8) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 19.6 | 2.4 | -0.6 | 0.6 | -1.6 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 27.6 | -3.3 | 1.7 | 0.6 | -1.6 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 27.6 | -3.3 | 1.7 | 0.6 | -1.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 27.6 | -3.3 | 1.7 | 0.6 | -1.6 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 76.3 | 2.9 | -2.1 | 1.9 | -1.7 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 84.3 | -3.2 | 4.9 | 1.9 | -1.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 84.3 | -3.2 | 4.9 | 1.9 | -1.7 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 122.4 | 5.6 | 5.8 | -7.8 | -7.3 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 128.7 | -15.2 | -16.5 | -7.8 | -7.3 | Cumple |
| Pie | Cumple | Cumple | G(1) | 128.7 | -15.2 | -16.5 | -7.8 | -7.3 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.9. P8

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 25x25 | Cabeza | Cumple | Cumple | 13.6 | 34.0 | 34.0 | G, Q, V(2) | Q,N,M | 75.4 | 8.1 | 0.9 | -0.7 | -6.7 | Cumple |
| 6.95 m | Cumple | Cumple | 13.4 | 70.6 | 70.6 | G, Q, V(2) | Q,N,M | 83.0 | -16.3 | -1.8 | -0.7 | -6.7 | Cumple |
| 4.4 m | Cumple | Cumple | 13.4 | 70.6 | 70.6 | G, Q, V(2) | Q,N,M | 83.0 | -16.3 | -1.8 | -0.7 | -6.7 | Cumple |
| Pie | Cumple | Cumple | 13.4 | 70.6 | 70.6 | G, Q, V(2) | Q,N,M | 83.0 | -16.3 | -1.8 | -0.7 | -6.7 | Cumple |
| PLANTA 1 (2.85 - 3.8 m) | 25x25 | Cabeza | Cumple | Cumple | 97.9 | 65.0 | 97.9 | G, Q, V(2) | Q,N,M | 230.8 | 29.3 | 13.2 | 14.6 | -65.0 | Cumple |
| 3.175 m | Cumple | Cumple | 97.9 | 65.0 | 97.9 | G, Q, V(2) | Q,N,M | 230.8 | 29.3 | 13.2 | 14.6 | -65.0 | Cumple |
| Pie | Cumple | Cumple | 97.8 | 55.1 | 97.8 | G, Q, V(2) | Q | 232.1 | -12.9 | 22.7 | 14.6 | -65.0 | Cumple |
| G, Q, V(3) | N,M | 239.5 | -11.7 | 24.9 | 14.7 | -58.6 |
| Marquesina (-0.13 - 2.85 m) | 25x25 | Cabeza | Cumple | Cumple | 33.6 | 97.6 | 97.6 | G, V(4) | Q | 274.6 | 27.2 | -16.9 | 9.6 | -20.8 | Cumple |
| G, V(5) | N,M | 299.6 | -21.3 | -24.3 | 14.9 | 16.3 |
| 2.1 m | Cumple | Cumple | 33.6 | 97.6 | 97.6 | G, V(4) | Q | 274.6 | 27.2 | -16.9 | 9.6 | -20.8 | Cumple |
| G, V(5) | N,M | 299.6 | -21.3 | -24.3 | 14.9 | 16.3 |
| 0.47 m | Cumple | Cumple | 33.6 | 97.6 | 97.6 | G, V(4) | Q | 274.6 | 27.2 | -16.9 | 9.6 | -20.8 | Cumple |
| G, V(5) | N,M | 299.6 | -21.3 | -24.3 | 14.9 | 16.3 |
| Pie | Cumple | Cumple | 33.6 | 88.6 | 88.6 | G, V(4) | Q | 280.2 | -29.5 | 9.3 | 9.6 | -20.8 | Cumple |
| G, Q, V(6) | N,M | 330.6 | 23.3 | 15.2 | 14.2 | 16.4 |
| CIMENTACIÓN | 25x25 | Arranque | N.P.(1) | N.P.(1) | 8.7 | 88.6 | 88.6 | G, V(4) | Q | 280.2 | -29.5 | 9.3 | 9.6 | -20.8 | Cumple |
| G, Q, V(6) | N,M | 330.6 | 23.3 | 15.2 | 14.2 | 16.4 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·Qa(G2)+0.9·V(-Yexc.-)*  *(4) 1.35·PP+1.35·CM+1.5·V(-Yexc.-)*  *(5) 1.35·PP+1.35·CM+1.5·V(+Yexc.-)*  *(6) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 25x25 | Cabeza | Cumple | Cumple | G(1) | 52.2 | 1.9 | -0.2 | 0.3 | -1.5 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 57.8 | -3.4 | 1.1 | 0.3 | -1.5 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 57.8 | -3.4 | 1.1 | 0.3 | -1.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 57.8 | -3.4 | 1.1 | 0.3 | -1.5 | Cumple |
| PLANTA 1 (2.85 - 3.8 m) | 25x25 | Cabeza | Cumple | Cumple | G(1) | 146.1 | 13.7 | 9.0 | 8.3 | -30.1 | Cumple |
| 3.175 m | Cumple | Cumple | G(1) | 146.1 | 13.7 | 9.0 | 8.3 | -30.1 | Cumple |
| Pie | Cumple | Cumple | G(1) | 147.1 | -5.8 | 14.4 | 8.3 | -30.1 | Cumple |
| Marquesina (-0.13 - 2.85 m) | 25x25 | Cabeza | Cumple | Cumple | G(1) | 212.7 | 2.2 | -15.3 | 9.1 | -1.6 | Cumple |
| 2.1 m | Cumple | Cumple | G(1) | 212.7 | 2.2 | -15.3 | 9.1 | -1.6 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 212.7 | 2.2 | -15.3 | 9.1 | -1.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 216.8 | -2.3 | 9.5 | 9.1 | -1.6 | Cumple |
| CIMENTACIÓN | 25x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.10. P9

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 13.7 | 53.3 | 53.3 | G, Q, V(2) | Q | 265.1 | 14.6 | 2.4 | -2.1 | -12.1 | Cumple |
| G, Q, V(3) | N,M | 413.8 | 11.8 | 2.6 | -2.0 | -9.7 |
| 6.95 m | Cumple | Cumple | 13.6 | 81.9 | 81.9 | G, Q, V(2) | Q | 273.1 | -29.5 | -5.2 | -2.1 | -12.1 | Cumple |
| G, Q, V(4) | N,M | 371.0 | -31.6 | -5.5 | -2.3 | -12.9 |
| 4.4 m | Cumple | Cumple | 13.6 | 81.9 | 81.9 | G, Q, V(2) | Q | 273.1 | -29.5 | -5.2 | -2.1 | -12.1 | Cumple |
| G, Q, V(4) | N,M | 371.0 | -31.6 | -5.5 | -2.3 | -12.9 |
| Pie | Cumple | Cumple | 13.6 | 81.9 | 81.9 | G, Q, V(2) | Q | 273.1 | -29.5 | -5.2 | -2.1 | -12.1 | Cumple |
| G, Q, V(4) | N,M | 371.0 | -31.6 | -5.5 | -2.3 | -12.9 |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 25.3 | 95.0 | 95.0 | G, Q, V(4) | Q,N,M | 789.5 | 43.5 | 10.6 | -5.8 | -22.6 | Cumple |
| 0.47 m | Cumple | Cumple | 27.1 | 95.6 | 95.6 | G, Q, V(4) | Q,N,M | 800.3 | -43.7 | -10.6 | -5.8 | -24.3 | Cumple |
| Pie | Cumple | Cumple | 27.1 | 95.6 | 95.6 | G, Q, V(4) | Q,N,M | 800.3 | -43.7 | -10.6 | -5.8 | -24.3 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 6.1 | 95.6 | 95.6 | G, Q, V(4) | Q,N,M | 800.3 | -43.7 | -10.6 | -5.8 | -24.3 | Cumple |
| Cabeza | Cumple | Cumple | 7.3 | 87.9 | 87.9 | G, V(5) | Q | 1044.4 | -1.3 | -2.6 | 5.6 | 3.7 | Cumple |
| G, Q, V(6) | N,M | 1297.9 | 4.3 | 2.1 | 3.8 | -1.0 |
| -2.7 m | Cumple | Cumple | 7.3 | 92.8 | 92.8 | G, V(5) | Q | 1052.9 | 9.3 | 13.6 | 5.6 | 3.7 | Cumple |
| G, Q, V(7) | N,M | 1314.0 | 5.6 | 13.1 | 4.2 | 1.1 |
| Pie | Cumple | Cumple | 7.3 | 92.8 | 92.8 | G, V(5) | Q | 1052.9 | 9.3 | 13.6 | 5.6 | 3.7 | Cumple |
| G, Q, V(7) | N,M | 1314.0 | 5.6 | 13.1 | 4.2 | 1.1 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 1.7 | 92.8 | 92.8 | G, V(8) | Q | 1035.6 | 5.2 | 14.0 | 6.4 | 2.1 | Cumple |
| G, Q, V(7) | N,M | 1314.0 | 5.6 | 13.1 | 4.2 | 1.1 |
| *Notas:*  *(1) La comprobación no procede*  *(2) PP+CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·Qa(G2)+0.9·V(-Yexc.-)*  *(4) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(5) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(6) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(+Xexc.+)*  *(7) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(+Yexc.+)*  *(8) 1.35·PP+1.35·CM+1.5·V(-Xexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 271.6 | 3.0 | 0.8 | -0.5 | -2.5 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 279.7 | -6.1 | -1.1 | -0.5 | -2.5 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 279.7 | -6.1 | -1.1 | -0.5 | -2.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 279.7 | -6.1 | -1.1 | -0.5 | -2.5 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 517.3 | 8.7 | 3.6 | -1.9 | -4.5 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 525.4 | -7.5 | -3.3 | -1.9 | -4.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 525.4 | -7.5 | -3.3 | -1.9 | -4.5 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 762.6 | 0.3 | -1.9 | 4.2 | 0.9 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 768.9 | 2.8 | 10.2 | 4.2 | 0.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 768.9 | 2.8 | 10.2 | 4.2 | 0.9 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.11. P10

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 16.3 | 38.7 | 38.7 | G, Q, V(2) | Q | 191.0 | 9.8 | -9.0 | 8.5 | -9.7 | Cumple |
| G, Q, V(3) | N,M | 260.1 | 9.2 | -10.1 | 9.6 | -9.8 |
| 6.95 m | Cumple | Cumple | 16.1 | 77.1 | 77.1 | G, Q, V(2) | Q | 199.1 | -25.6 | 21.8 | 8.5 | -9.7 | Cumple |
| G, Q, V(3) | N,M | 271.0 | -26.6 | 25.1 | 9.6 | -9.8 |
| 4.4 m | Cumple | Cumple | 16.1 | 77.1 | 77.1 | G, Q, V(2) | Q | 199.1 | -25.6 | 21.8 | 8.5 | -9.7 | Cumple |
| G, Q, V(3) | N,M | 271.0 | -26.6 | 25.1 | 9.6 | -9.8 |
| Pie | Cumple | Cumple | 16.1 | 77.1 | 77.1 | G, Q, V(2) | Q | 199.1 | -25.6 | 21.8 | 8.5 | -9.7 | Cumple |
| G, Q, V(3) | N,M | 271.0 | -26.6 | 25.1 | 9.6 | -9.8 |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 29.4 | 97.8 | 97.8 | G, Q, V(3) | Q,N,M | 745.1 | 44.1 | -34.9 | 18.0 | -22.7 | Cumple |
| 3 m | Cumple | Cumple | 29.4 | 97.8 | 97.8 | G, Q, V(3) | Q,N,M | 745.1 | 44.1 | -34.9 | 18.0 | -22.7 | Cumple |
| Pie | Cumple | Cumple | 31.7 | 97.5 | 97.5 | G, Q, V(3) | Q,N,M | 755.9 | -44.3 | 33.3 | 19.0 | -24.7 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 8.3 | 97.5 | 97.5 | G, Q, V(3) | Q,N,M | 755.9 | -44.3 | 33.3 | 19.0 | -24.7 | Cumple |
| Cabeza | Cumple | Cumple | 12.4 | 81.0 | 81.0 | G, V(4) | Q | 1009.6 | -9.3 | 4.5 | -6.2 | 10.6 | Cumple |
| G, Q, V(5) | N,M | 1261.7 | 5.7 | -10.7 | 5.1 | -1.5 |
| -2.7 m | Cumple | Cumple | 12.4 | 86.1 | 86.1 | G, V(4) | Q | 1018.1 | 21.0 | -13.3 | -6.2 | 10.6 | Cumple |
| G, Q, V(6) | N,M | 1285.9 | 14.8 | -8.9 | -2.7 | 6.1 |
| Pie | Cumple | Cumple | 12.4 | 86.1 | 86.1 | G, V(4) | Q | 1018.1 | 21.0 | -13.3 | -6.2 | 10.6 | Cumple |
| G, Q, V(6) | N,M | 1285.9 | 14.8 | -8.9 | -2.7 | 6.1 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 3.4 | 86.1 | 86.1 | G, V(4) | Q | 1018.1 | 21.0 | -13.3 | -6.2 | 10.6 | Cumple |
| G, Q, V(6) | N,M | 1285.9 | 14.8 | -8.9 | -2.7 | 6.1 |
| *Notas:*  *(1) La comprobación no procede*  *(2) PP+CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(4) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(5) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(-Yexc.+)*  *(6) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 197.5 | -1.6 | -2.9 | 3.3 | -0.3 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 205.6 | -2.8 | 9.2 | 3.3 | -0.3 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 205.6 | -2.8 | 9.2 | 3.3 | -0.3 | Cumple |
| Pie | Cumple | Cumple | G(1) | 205.6 | -2.8 | 9.2 | 3.3 | -0.3 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 488.0 | 8.6 | -12.2 | 6.3 | -4.5 | Cumple |
| 3 m | Cumple | Cumple | G(1) | 488.0 | 8.6 | -12.2 | 6.3 | -4.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 496.0 | -7.6 | 10.7 | 6.3 | -4.5 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 738.1 | -1.7 | -2.6 | 0.3 | 3.2 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 744.5 | 7.4 | -1.9 | 0.3 | 3.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 744.5 | 7.4 | -1.9 | 0.3 | 3.2 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.12. P11

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 14.5 | 42.7 | 42.7 | G, Q, V(2) | Q | 174.5 | 12.3 | -6.2 | 4.9 | -10.1 | Cumple |
| G, Q, V(3) | N,M | 234.9 | 12.6 | -6.3 | 4.9 | -10.4 |
| 6.95 m | Cumple | Cumple | 14.3 | 74.1 | 74.1 | G, Q, V(2) | Q | 182.5 | -24.7 | 11.7 | 4.9 | -10.1 | Cumple |
| G, Q, V(3) | N,M | 245.8 | -25.2 | 11.7 | 4.9 | -10.4 |
| 4.4 m | Cumple | Cumple | 14.3 | 74.1 | 74.1 | G, Q, V(2) | Q | 182.5 | -24.7 | 11.7 | 4.9 | -10.1 | Cumple |
| G, Q, V(3) | N,M | 245.8 | -25.2 | 11.7 | 4.9 | -10.4 |
| Pie | Cumple | Cumple | 14.3 | 74.1 | 74.1 | G, Q, V(2) | Q | 182.5 | -24.7 | 11.7 | 4.9 | -10.1 | Cumple |
| G, Q, V(3) | N,M | 245.8 | -25.2 | 11.7 | 4.9 | -10.4 |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 21.2 | 91.2 | 91.2 | G, Q, V(3) | Q,N,M | 509.5 | 36.0 | -16.3 | 9.3 | -18.4 | Cumple |
| 0.47 m | Cumple | Cumple | 23.6 | 96.7 | 96.7 | G, Q, V(3) | Q,N,M | 520.3 | -37.0 | 20.3 | 10.3 | -20.5 | Cumple |
| Pie | Cumple | Cumple | 23.6 | 96.7 | 96.7 | G, Q, V(3) | Q,N,M | 520.3 | -37.0 | 20.3 | 10.3 | -20.5 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 5.3 | 96.7 | 96.7 | G, Q, V(2) | Q | 402.4 | -35.9 | 19.2 | 9.9 | -19.9 | Cumple |
| G, Q, V(3) | N,M | 520.3 | -37.0 | 20.3 | 10.3 | -20.5 |
| Cabeza | Cumple | Cumple | 14.7 | 73.2 | 73.2 | G, V(4) | Q | 682.9 | -13.3 | 4.8 | -6.0 | 13.0 | Cumple |
| G, Q, V(5) | N,M | 872.5 | -3.4 | -3.3 | 0.9 | 4.8 |
| -2.7 m | Cumple | Cumple | 14.7 | 80.0 | 80.0 | G, V(4) | Q | 691.4 | 23.9 | -12.5 | -6.0 | 13.0 | Cumple |
| G, Q, V(6) | N,M | 822.1 | 23.5 | -11.8 | -5.2 | 12.3 |
| Pie | Cumple | Cumple | 14.7 | 80.0 | 80.0 | G, V(4) | Q | 691.4 | 23.9 | -12.5 | -6.0 | 13.0 | Cumple |
| G, Q, V(6) | N,M | 822.1 | 23.5 | -11.8 | -5.2 | 12.3 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 3.1 | 80.0 | 80.0 | G, V(4) | Q | 691.4 | 23.9 | -12.5 | -6.0 | 13.0 | Cumple |
| G, Q, V(6) | N,M | 822.1 | 23.5 | -11.8 | -5.2 | 12.3 |
| *Notas:*  *(1) La comprobación no procede*  *(2) PP+CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(4) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(5) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(+Xexc.+)*  *(6) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 172.7 | 0.9 | -0.3 | 0.1 | -0.7 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 180.8 | -1.6 | 0.2 | 0.1 | -0.7 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 180.8 | -1.6 | 0.2 | 0.1 | -0.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 180.8 | -1.6 | 0.2 | 0.1 | -0.7 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 328.7 | 2.8 | -0.3 | 0.9 | -1.6 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 336.8 | -3.1 | 3.1 | 0.9 | -1.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 336.8 | -3.1 | 3.1 | 0.9 | -1.6 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 505.9 | -5.1 | -0.9 | -0.5 | 5.0 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 512.3 | 9.1 | -2.2 | -0.5 | 5.0 | Cumple |
| Pie | Cumple | Cumple | G(1) | 512.3 | 9.1 | -2.2 | -0.5 | 5.0 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.13. P12

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.87 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | 22.5 | 32.3 | 32.3 | G, Q, V(2) | Q,N,M | 62.5 | -15.6 | 5.0 | -4.3 | 13.5 | Cumple |
| 6.95 m | Cumple | Cumple | 22.0 | 79.9 | 79.9 | G, Q, V(2) | Q,N,M | 72.9 | 32.7 | -10.4 | -4.3 | 13.5 | Cumple |
| 4.47 m | Cumple | Cumple | 22.0 | 79.9 | 79.9 | G, Q, V(2) | Q,N,M | 72.9 | 32.7 | -10.4 | -4.3 | 13.5 | Cumple |
| Pie | Cumple | Cumple | 22.0 | 79.9 | 79.9 | G, Q, V(2) | Q,N,M | 72.9 | 32.7 | -10.4 | -4.3 | 13.5 | Cumple |
| Marquesina (-0.13 - 3.87 m) | 35x25 | Cabeza | Cumple | Cumple | 21.3 | 91.7 | 91.7 | G, Q, V(2) | Q,N,M | 224.3 | -35.7 | 13.2 | -5.1 | 16.9 | Cumple |
| 3 m | Cumple | Cumple | 21.3 | 91.7 | 91.7 | G, Q, V(2) | Q,N,M | 224.3 | -35.7 | 13.2 | -5.1 | 16.9 | Cumple |
| Pie | Cumple | Cumple | 23.2 | 77.1 | 77.1 | G, Q, V(2) | Q,N,M | 234.8 | 31.6 | -5.3 | -5.1 | 18.9 | Cumple |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 5.4 | 77.1 | 77.1 | G, Q, V(2) | Q,N,M | 234.8 | 31.6 | -5.3 | -5.1 | 18.9 | Cumple |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.87 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 44.1 | -5.8 | 4.3 | -3.4 | 4.7 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 51.7 | 11.1 | -7.7 | -3.4 | 4.7 | Cumple |
| 4.47 m | Cumple | Cumple | G(1) | 51.7 | 11.1 | -7.7 | -3.4 | 4.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 51.7 | 11.1 | -7.7 | -3.4 | 4.7 | Cumple |
| Marquesina (-0.13 - 3.87 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 140.6 | -9.9 | 8.9 | -3.6 | 4.1 | Cumple |
| 3 m | Cumple | Cumple | G(1) | 140.6 | -9.9 | 8.9 | -3.6 | 4.1 | Cumple |
| Pie | Cumple | Cumple | G(1) | 148.4 | 5.0 | -4.2 | -3.6 | 4.1 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.14. P13

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | 13.5 | 34.6 | 34.6 | G, Q, V(2) | Q | 90.2 | -2.8 | -9.9 | 8.4 | 1.9 | Cumple |
| G, Q, V(3) | N,M | 95.3 | -10.2 | -4.4 | 3.8 | 8.0 |
| 6.95 m | Cumple | Cumple | 13.2 | 74.8 | 74.8 | G, Q, V(2) | Q | 100.8 | 4.1 | 20.6 | 8.4 | 1.9 | Cumple |
| G, Q, V(3) | N,M | 105.9 | 19.1 | 9.6 | 3.8 | 8.0 |
| 4.4 m | Cumple | Cumple | 13.2 | 74.8 | 74.8 | G, Q, V(2) | Q | 100.8 | 4.1 | 20.6 | 8.4 | 1.9 | Cumple |
| G, Q, V(3) | N,M | 105.9 | 19.1 | 9.6 | 3.8 | 8.0 |
| Pie | Cumple | Cumple | 13.2 | 74.8 | 74.8 | G, Q, V(2) | Q | 100.8 | 4.1 | 20.6 | 8.4 | 1.9 | Cumple |
| G, Q, V(3) | N,M | 105.9 | 19.1 | 9.6 | 3.8 | 8.0 |
| PLANTA 1 (2.85 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | 60.5 | 46.0 | 60.5 | G, Q, V(3) | Q,N,M | 258.9 | -30.5 | -8.0 | 14.9 | 50.6 | Cumple |
| 3.175 m | Cumple | Cumple | 60.5 | 46.0 | 60.5 | G, Q, V(3) | Q,N,M | 258.9 | -30.5 | -8.0 | 14.9 | 50.6 | Cumple |
| Pie | Cumple | Cumple | 60.4 | 18.3 | 60.4 | G, Q, V(3) | Q | 260.8 | 2.4 | 1.7 | 14.9 | 50.6 | Cumple |
| G, Q, V(4) | N,M | 226.0 | 8.2 | -6.2 | 1.7 | 29.9 |
| Marquesina (-0.13 - 2.85 m) | 35x25 | Cabeza | Cumple | Cumple | 37.9 | 86.4 | 86.4 | G, V(5) | Q | 162.0 | 36.9 | -8.5 | 5.2 | -28.1 | Cumple |
| G, V(6) | N,M | 218.2 | 39.1 | -11.2 | 7.0 | -29.5 |
| 2.1 m | Cumple | Cumple | 37.5 | 91.7 | 91.7 | G, V(5) | Q | 167.9 | -39.7 | 5.8 | 5.2 | -28.1 | Cumple |
| G, Q, V(7) | N,M | 195.0 | -40.3 | 6.4 | 5.7 | -28.6 |
| 0.47 m | Cumple | Cumple | 37.5 | 91.7 | 91.7 | G, V(5) | Q | 167.9 | -39.7 | 5.8 | 5.2 | -28.1 | Cumple |
| G, Q, V(7) | N,M | 195.0 | -40.3 | 6.4 | 5.7 | -28.6 |
| Pie | Cumple | Cumple | 37.5 | 91.7 | 91.7 | G, V(5) | Q | 167.9 | -39.7 | 5.8 | 5.2 | -28.1 | Cumple |
| G, Q, V(7) | N,M | 195.0 | -40.3 | 6.4 | 5.7 | -28.6 |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 8.4 | 91.7 | 91.7 | G, Q, V(4) | Q | 253.3 | -41.9 | 8.5 | 7.4 | -30.0 | Cumple |
| G, Q, V(7) | N,M | 195.0 | -40.3 | 6.4 | 5.7 | -28.6 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Xexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)*  *(4) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(5) PP+CM+1.5·V(-Yexc.-)*  *(6) 1.35·PP+1.35·CM+1.5·V(-Yexc.-)*  *(7) PP+CM+1.05·Qa(C)+1.5·V(-Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 67.4 | -1.6 | -3.1 | 2.8 | 0.9 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 75.2 | 1.7 | 7.1 | 2.8 | 0.9 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 75.2 | 1.7 | 7.1 | 2.8 | 0.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 75.2 | 1.7 | 7.1 | 2.8 | 0.9 | Cumple |
| PLANTA 1 (2.85 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 159.1 | -12.6 | -4.8 | 5.7 | 23.9 | Cumple |
| 3.175 m | Cumple | Cumple | G(1) | 159.1 | -12.6 | -4.8 | 5.7 | 23.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 160.5 | 2.9 | -1.1 | 5.7 | 23.9 | Cumple |
| Marquesina (-0.13 - 2.85 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 160.6 | 6.3 | -7.5 | 4.9 | -4.1 | Cumple |
| 2.1 m | Cumple | Cumple | G(1) | 166.4 | -4.8 | 5.8 | 4.9 | -4.1 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 166.4 | -4.8 | 5.8 | 4.9 | -4.1 | Cumple |
| Pie | Cumple | Cumple | G(1) | 166.4 | -4.8 | 5.8 | 4.9 | -4.1 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.15. P14

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 14.2 | 38.5 | 38.5 | G, Q, V(2) | Q | 141.1 | -10.8 | 6.8 | -5.4 | 8.9 | Cumple |
| G, Q, V(3) | N,M | 191.1 | -10.5 | 7.5 | -6.2 | 8.7 |
| 6.95 m | Cumple | Cumple | 14.0 | 71.1 | 71.1 | G, Q, V(2) | Q | 149.1 | 21.6 | -13.1 | -5.4 | 8.9 | Cumple |
| G, Q, V(3) | N,M | 202.0 | 21.3 | -15.0 | -6.2 | 8.7 |
| 4.4 m | Cumple | Cumple | 14.0 | 71.1 | 71.1 | G, Q, V(2) | Q | 149.1 | 21.6 | -13.1 | -5.4 | 8.9 | Cumple |
| G, Q, V(3) | N,M | 202.0 | 21.3 | -15.0 | -6.2 | 8.7 |
| Pie | Cumple | Cumple | 14.0 | 71.1 | 71.1 | G, Q, V(2) | Q | 149.1 | 21.6 | -13.1 | -5.4 | 8.9 | Cumple |
| G, Q, V(3) | N,M | 202.0 | 21.3 | -15.0 | -6.2 | 8.7 |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 19.7 | 91.9 | 91.9 | G, Q, V(3) | Q,N,M | 522.5 | -32.0 | 21.0 | -9.6 | 16.6 | Cumple |
| 3 m | Cumple | Cumple | 19.7 | 91.9 | 91.9 | G, Q, V(3) | Q,N,M | 522.5 | -32.0 | 21.0 | -9.6 | 16.6 | Cumple |
| Pie | Cumple | Cumple | 22.1 | 91.5 | 91.5 | G, Q, V(3) | Q,N,M | 533.3 | 34.3 | -16.9 | -10.6 | 18.6 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 5.0 | 91.5 | 91.5 | G, V(4) | Q | 346.5 | 32.3 | -17.1 | -10.3 | 17.5 | Cumple |
| G, Q, V(3) | N,M | 533.3 | 34.3 | -16.9 | -10.6 | 18.6 |
| Cabeza | Cumple | Cumple | 18.3 | 83.5 | 83.5 | G, V(5) | Q | 743.3 | -10.8 | 18.8 | -16.8 | 5.8 | Cumple |
| G, Q, V(6) | N,M | 928.9 | -8.3 | 15.0 | -14.1 | 2.5 |
| -2.7 m | Cumple | Cumple | 18.3 | 86.7 | 86.7 | G, V(5) | Q | 751.8 | 6.0 | -29.5 | -16.8 | 5.8 | Cumple |
| G, Q, V(7) | N,M | 937.5 | -25.2 | -12.1 | -6.7 | -12.1 |
| Pie | Cumple | Cumple | 18.3 | 86.7 | 86.7 | G, V(5) | Q | 751.8 | 6.0 | -29.5 | -16.8 | 5.8 | Cumple |
| G, Q, V(7) | N,M | 937.5 | -25.2 | -12.1 | -6.7 | -12.1 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 3.8 | 86.7 | 86.7 | G, V(5) | Q | 751.8 | 6.0 | -29.5 | -16.8 | 5.8 | Cumple |
| G, Q, V(7) | N,M | 937.5 | -25.2 | -12.1 | -6.7 | -12.1 |
| *Notas:*  *(1) La comprobación no procede*  *(2) PP+CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(4) PP+CM+1.5·V(+Yexc.+)*  *(5) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(6) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(+Yexc.-)*  *(7) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 142.9 | 0.9 | 2.1 | -2.1 | -0.5 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 150.9 | -0.9 | -5.5 | -2.1 | -0.5 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 150.9 | -0.9 | -5.5 | -2.1 | -0.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 150.9 | -0.9 | -5.5 | -2.1 | -0.5 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 358.6 | 0.1 | 8.1 | -3.4 | -0.2 | Cumple |
| 3 m | Cumple | Cumple | G(1) | 358.6 | 0.1 | 8.1 | -3.4 | -0.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 366.7 | -0.5 | -4.3 | -3.4 | -0.2 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 575.8 | 0.0 | 10.0 | -8.9 | -2.4 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 582.1 | -7.0 | -15.5 | -8.9 | -2.4 | Cumple |
| Pie | Cumple | Cumple | G(1) | 582.1 | -7.0 | -15.5 | -8.9 | -2.4 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.16. P15

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 14.5 | 43.8 | 43.8 | G, Q, V(2) | Q | 176.0 | -11.1 | 7.9 | -6.5 | 9.2 | Cumple |
| G, V(3) | N,M | 240.0 | -11.0 | 8.7 | -7.1 | 9.2 |
| 6.95 m | Cumple | Cumple | 14.3 | 78.2 | 78.2 | G, Q, V(2) | Q | 184.0 | 22.4 | -15.8 | -6.5 | 9.2 | Cumple |
| G, Q, V(4) | N,M | 249.5 | 22.4 | -17.5 | -7.2 | 9.2 |
| 4.4 m | Cumple | Cumple | 14.3 | 78.2 | 78.2 | G, Q, V(2) | Q | 184.0 | 22.4 | -15.8 | -6.5 | 9.2 | Cumple |
| G, Q, V(4) | N,M | 249.5 | 22.4 | -17.5 | -7.2 | 9.2 |
| Pie | Cumple | Cumple | 14.3 | 78.2 | 78.2 | G, Q, V(2) | Q | 184.0 | 22.4 | -15.8 | -6.5 | 9.2 | Cumple |
| G, Q, V(4) | N,M | 249.5 | 22.4 | -17.5 | -7.2 | 9.2 |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 22.0 | 87.4 | 87.4 | G, V(3) | Q | 496.3 | -31.1 | 24.9 | -12.3 | 15.4 | Cumple |
| G, Q, V(4) | N,M | 572.3 | -30.4 | 25.4 | -12.4 | 15.0 |
| 3 m | Cumple | Cumple | 22.0 | 87.4 | 87.4 | G, V(3) | Q | 496.3 | -31.1 | 24.9 | -12.3 | 15.4 | Cumple |
| G, Q, V(4) | N,M | 572.3 | -30.4 | 25.4 | -12.4 | 15.0 |
| Pie | Cumple | Cumple | 24.5 | 85.4 | 85.4 | G, V(3) | Q | 507.1 | 30.9 | -22.6 | -13.3 | 17.5 | Cumple |
| G, Q, V(4) | N,M | 583.2 | 30.2 | -22.7 | -13.4 | 17.1 |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | 22.6 | 84.5 | 84.5 | G, V(3) | Q | 811.0 | -15.9 | 19.4 | -15.0 | 13.6 | Cumple |
| G, Q, V(5) | N,M | 1031.4 | -11.9 | 17.2 | -13.1 | 10.3 |
| -0.93 m | Cumple | Cumple | 22.6 | 87.7 | 87.7 | G, V(3) | Q | 819.6 | 23.1 | -23.5 | -15.0 | 13.6 | Cumple |
| G, Q, V(4) | N,M | 974.4 | 22.9 | -23.6 | -15.0 | 13.3 |
| -2.7 m | Cumple | Cumple | 22.6 | 87.7 | 87.7 | G, V(3) | Q | 819.6 | 23.1 | -23.5 | -15.0 | 13.6 | Cumple |
| G, Q, V(4) | N,M | 974.4 | 22.9 | -23.6 | -15.0 | 13.3 |
| Pie | Cumple | Cumple | 22.6 | 87.7 | 87.7 | G, V(3) | Q | 819.6 | 23.1 | -23.5 | -15.0 | 13.6 | Cumple |
| G, Q, V(4) | N,M | 974.4 | 22.9 | -23.6 | -15.0 | 13.3 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 5.0 | 87.7 | 87.7 | G, V(3) | Q | 819.6 | 23.1 | -23.5 | -15.0 | 13.6 | Cumple |
| G, Q, V(4) | N,M | 974.4 | 22.9 | -23.6 | -15.0 | 13.3 |
| *Notas:*  *(1) La comprobación no procede*  *(2) PP+CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(4) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(5) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 179.1 | 0.4 | 2.5 | -2.0 | -0.1 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 187.1 | 0.0 | -4.8 | -2.0 | -0.1 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 187.1 | 0.0 | -4.8 | -2.0 | -0.1 | Cumple |
| Pie | Cumple | Cumple | G(1) | 187.1 | 0.0 | -4.8 | -2.0 | -0.1 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 367.6 | -0.1 | 7.7 | -3.7 | -0.2 | Cumple |
| 3 m | Cumple | Cumple | G(1) | 367.6 | -0.1 | 7.7 | -3.7 | -0.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 375.6 | -0.9 | -5.9 | -3.7 | -0.2 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 599.2 | -5.9 | 10.2 | -7.5 | 4.6 | Cumple |
| -0.93 m | Cumple | Cumple | G(1) | 605.6 | 7.5 | -11.2 | -7.5 | 4.6 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 605.6 | 7.5 | -11.2 | -7.5 | 4.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 605.6 | 7.5 | -11.2 | -7.5 | 4.6 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.17. P16

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 14.1 | 47.6 | 47.6 | G, Q, V(2) | Q | 210.5 | -13.4 | 4.1 | -3.6 | 11.0 | Cumple |
| G, V(3) | N,M | 281.2 | -14.3 | 5.3 | -4.4 | 11.8 |
| 6.95 m | Cumple | Cumple | 14.0 | 80.8 | 80.8 | G, Q, V(2) | Q | 218.6 | 26.8 | -9.0 | -3.6 | 11.0 | Cumple |
| G, Q, V(4) | N,M | 292.0 | 28.6 | -11.6 | -4.6 | 11.7 |
| 4.4 m | Cumple | Cumple | 14.0 | 80.8 | 80.8 | G, Q, V(2) | Q | 218.6 | 26.8 | -9.0 | -3.6 | 11.0 | Cumple |
| G, Q, V(4) | N,M | 292.0 | 28.6 | -11.6 | -4.6 | 11.7 |
| Pie | Cumple | Cumple | 14.0 | 80.8 | 80.8 | G, Q, V(2) | Q | 218.6 | 26.8 | -9.0 | -3.6 | 11.0 | Cumple |
| G, Q, V(4) | N,M | 292.0 | 28.6 | -11.6 | -4.6 | 11.7 |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 21.4 | 96.8 | 96.8 | G, Q, V(4) | Q,N,M | 563.5 | -35.5 | 19.0 | -9.9 | 18.3 | Cumple |
| 3 m | Cumple | Cumple | 21.4 | 96.8 | 96.8 | G, Q, V(4) | Q,N,M | 563.5 | -35.5 | 19.0 | -9.9 | 18.3 | Cumple |
| Pie | Cumple | Cumple | 22.9 | 96.2 | 96.2 | G, Q, V(4) | Q,N,M | 574.3 | 35.9 | -17.0 | -9.9 | 20.0 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | -0.13 m | N.P.(1) | N.P.(1) | 5.0 | 96.2 | 96.2 | G, V(3) | Q | 520.6 | 36.9 | -14.8 | -8.8 | 20.4 | Cumple |
| G, Q, V(4) | N,M | 574.3 | 35.9 | -17.0 | -9.9 | 20.0 |
| Cabeza | Cumple | Cumple | 10.6 | 76.8 | 76.8 | G, V(5) | Q | 716.2 | -12.0 | 9.1 | -3.1 | 9.8 | Cumple |
| G, Q, V(6) | N,M | 857.5 | -7.9 | 11.4 | -4.0 | 6.7 |
| -2.7 m | Cumple | Cumple | 10.6 | 77.4 | 77.4 | G, V(5) | Q | 724.8 | 16.2 | 0.2 | -3.1 | 9.8 | Cumple |
| G, Q, V(7) | N,M | 827.9 | 14.9 | -0.2 | -3.9 | 8.9 |
| Pie | Cumple | Cumple | 10.6 | 77.4 | 77.4 | G, V(5) | Q | 724.8 | 16.2 | 0.2 | -3.1 | 9.8 | Cumple |
| G, Q, V(7) | N,M | 827.9 | 14.9 | -0.2 | -3.9 | 8.9 |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 2.2 | 77.4 | 77.4 | G, V(5) | Q | 724.8 | 16.2 | 0.2 | -3.1 | 9.8 | Cumple |
| G, Q, V(7) | N,M | 827.9 | 14.9 | -0.2 | -3.9 | 8.9 |
| *Notas:*  *(1) La comprobación no procede*  *(2) PP+CM+1.05·Qa(C)+1.5·V(+Yexc.-)*  *(3) 1.35·PP+1.35·CM+1.5·V(+Yexc.-)*  *(4) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)*  *(5) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(6) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(+Yexc.+)*  *(7) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 201.9 | -1.8 | 3.6 | -3.0 | 1.9 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 209.9 | 5.1 | -7.3 | -3.0 | 1.9 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 209.9 | 5.1 | -7.3 | -3.0 | 1.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 209.9 | 5.1 | -7.3 | -3.0 | 1.9 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 370.6 | -5.1 | 11.5 | -6.0 | 2.1 | Cumple |
| 3 m | Cumple | Cumple | G(1) | 370.6 | -5.1 | 11.5 | -6.0 | 2.1 | Cumple |
| Pie | Cumple | Cumple | G(1) | 378.6 | 2.6 | -10.3 | -6.0 | 2.1 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 519.2 | -4.9 | 5.9 | -1.8 | 4.0 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 525.6 | 6.6 | 0.7 | -1.8 | 4.0 | Cumple |
| Pie | Cumple | Cumple | G(1) | 525.6 | 6.6 | 0.7 | -1.8 | 4.0 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.18. P17

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CASETÓN (7.82 - 10.7 m) | Diámetro 30 | Cabeza | Cumple | Cumple | 33.5 | 37.6 | 37.6 | G, V(2) | Q | 112.5 | 0.5 | -18.2 | 14.9 | -1.1 | Cumple |
| G, Q, V(3) | N,M | 112.2 | 0.6 | -18.2 | 14.8 | -1.1 |
| 9.9 m | Cumple | Cumple | 33.1 | 49.9 | 49.9 | G, V(4) | Q | 88.9 | -3.1 | 20.0 | 13.9 | -1.5 | Cumple |
| G, Q, V(5) | N,M | 80.3 | 7.3 | -19.5 | -8.8 | 3.8 |
| 8.42 m | Cumple | Cumple | 33.1 | 49.9 | 49.9 | G, V(4) | Q | 88.9 | -3.1 | 20.0 | 13.9 | -1.5 | Cumple |
| G, Q, V(5) | N,M | 80.3 | 7.3 | -19.5 | -8.8 | 3.8 |
| Pie | Cumple | Cumple | 33.1 | 49.9 | 49.9 | G, V(4) | Q | 88.9 | -3.1 | 20.0 | 13.9 | -1.5 | Cumple |
| G, Q, V(5) | N,M | 80.3 | 7.3 | -19.5 | -8.8 | 3.8 |
| CUBIERTA (3.8 - 7.82 m) | Diámetro 30 | Cabeza | Cumple | Cumple | 24.5 | 90.6 | 90.6 | G, Q, V(6) | Q | 198.6 | 27.1 | 4.8 | -3.1 | -14.1 | Cumple |
| G, Q, V(7) | N,M | 269.4 | 28.8 | 6.4 | -4.0 | -14.9 |
| 6.95 m | Cumple | Cumple | 24.5 | 90.6 | 90.6 | G, Q, V(6) | Q | 198.6 | 27.1 | 4.8 | -3.1 | -14.1 | Cumple |
| G, Q, V(7) | N,M | 269.4 | 28.8 | 6.4 | -4.0 | -14.9 |
| 4.4 m | Cumple | Cumple | 24.5 | 90.6 | 90.6 | G, Q, V(6) | Q | 198.6 | 27.1 | 4.8 | -3.1 | -14.1 | Cumple |
| G, Q, V(7) | N,M | 269.4 | 28.8 | 6.4 | -4.0 | -14.9 |
| Pie | Cumple | Cumple | 24.2 | 84.9 | 84.9 | G, Q, V(6) | Q | 204.9 | -24.4 | -6.3 | -3.1 | -14.1 | Cumple |
| G, Q, V(7) | N,M | 278.0 | -25.6 | -8.0 | -4.0 | -14.9 |
| Marquesina (-0.13 - 3.8 m) | Diámetro 30 | Cabeza | Cumple | Cumple | 15.4 | 94.3 | 94.3 | G, Q, V(6) | Q | 406.3 | 20.2 | 3.3 | -0.1 | -10.2 | Cumple |
| G, Q, V(8) | N,M | 536.4 | 20.3 | 4.6 | -0.5 | -10.0 |
| 0.47 m | Cumple | Cumple | 18.0 | 95.7 | 95.7 | G, Q, V(6) | Q | 412.6 | -21.9 | 2.8 | -0.1 | -11.9 | Cumple |
| G, Q, V(7) | N,M | 543.5 | -21.3 | 3.9 | 0.0 | -11.8 |
| Pie | Cumple | Cumple | 18.0 | 95.7 | 95.7 | G, Q, V(6) | Q | 412.6 | -21.9 | 2.8 | -0.1 | -11.9 | Cumple |
| G, Q, V(7) | N,M | 543.5 | -21.3 | 3.9 | 0.0 | -11.8 |
| PLANTA BAJA (-3.3 - -0.13 m) | Diámetro 30 | Cabeza | Cumple | Cumple | 26.7 | 91.7 | 91.7 | G, V(9) | Q | 766.0 | -21.1 | -9.9 | 5.2 | 16.1 | Cumple |
| G, Q(10) | N,M | 886.6 | -10.7 | -10.6 | 5.4 | 8.8 |
| -0.93 m | Cumple | Cumple | 26.7 | 97.8 | 97.8 | G, V(9) | Q | 772.8 | 25.0 | 5.1 | 5.2 | 16.1 | Cumple |
| G, Q, V(11) | N,M | 894.3 | 17.8 | 4.1 | 5.0 | 10.7 |
| -2.7 m | Cumple | Cumple | 26.7 | 97.8 | 97.8 | G, V(9) | Q | 772.8 | 25.0 | 5.1 | 5.2 | 16.1 | Cumple |
| G, Q, V(11) | N,M | 894.3 | 17.8 | 4.1 | 5.0 | 10.7 |
| Pie | Cumple | Cumple | 26.7 | 97.8 | 97.8 | G, V(9) | Q | 772.8 | 25.0 | 5.1 | 5.2 | 16.1 | Cumple |
| G, Q, V(11) | N,M | 894.3 | 17.8 | 4.1 | 5.0 | 10.7 |
| CIMENTACIÓN | Diámetro 30 | Arranque | N.P.(1) | N.P.(1) | 6.6 | 97.8 | 97.8 | G, V(9) | Q | 772.8 | 25.0 | 5.1 | 5.2 | 16.1 | Cumple |
| G, Q, V(11) | N,M | 894.3 | 17.8 | 4.1 | 5.0 | 10.7 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.5·V(+Xexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Xexc.+)*  *(4) PP+CM+1.5·V(+Xexc.+)*  *(5) PP+CM+1.05·Qa(C)+1.5·V(-Xexc.+)*  *(6) PP+CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(7) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(8) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(9) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(10) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·Qa(G2)*  *(11) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CASETÓN (7.82 - 10.7 m) | Diámetro 30 | Cabeza | Cumple | Cumple | G(1) | 80.3 | -0.9 | -6.4 | 2.7 | 1.1 | Cumple |
| 9.9 m | Cumple | Cumple | G(1) | 84.8 | 2.1 | 0.4 | 2.7 | 1.1 | Cumple |
| 8.42 m | Cumple | Cumple | G(1) | 84.8 | 2.1 | 0.4 | 2.7 | 1.1 | Cumple |
| Pie | Cumple | Cumple | G(1) | 84.8 | 2.1 | 0.4 | 2.7 | 1.1 | Cumple |
| CUBIERTA (3.8 - 7.82 m) | Diámetro 30 | Cabeza | Cumple | Cumple | G(1) | 202.4 | 4.8 | 4.6 | -2.6 | -2.2 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 202.4 | 4.8 | 4.6 | -2.6 | -2.2 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 202.4 | 4.8 | 4.6 | -2.6 | -2.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 208.7 | -3.4 | -4.9 | -2.6 | -2.2 | Cumple |
| Marquesina (-0.13 - 3.8 m) | Diámetro 30 | Cabeza | Cumple | Cumple | G(1) | 367.6 | 0.0 | 1.7 | 0.4 | 0.5 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 373.9 | 1.7 | 3.1 | 0.4 | 0.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 373.9 | 1.7 | 3.1 | 0.4 | 0.5 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | Diámetro 30 | Cabeza | Cumple | Cumple | G(1) | 571.2 | -10.0 | -7.7 | 4.2 | 7.6 | Cumple |
| -0.93 m | Cumple | Cumple | G(1) | 576.2 | 11.9 | 4.3 | 4.2 | 7.6 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 576.2 | 11.9 | 4.3 | 4.2 | 7.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 576.2 | 11.9 | 4.3 | 4.2 | 7.6 | Cumple |
| CIMENTACIÓN | Diámetro 30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.19. P18

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | 16.0 | 26.3 | 26.3 | G, V(2) | Q | 114.9 | -13.4 | 4.3 | -3.6 | 10.6 | Cumple |
| G, Q, V(3) | N,M | 129.8 | -8.9 | 3.1 | -2.7 | 7.0 |
| 6.95 m | Cumple | Cumple | 15.7 | 74.8 | 74.8 | G, V(2) | Q,N,M | 125.7 | 25.3 | -9.0 | -3.6 | 10.6 | Cumple |
| 4.4 m | Cumple | Cumple | 15.7 | 74.8 | 74.8 | G, V(2) | Q,N,M | 125.7 | 25.3 | -9.0 | -3.6 | 10.6 | Cumple |
| Pie | Cumple | Cumple | 15.7 | 74.8 | 74.8 | G, V(2) | Q,N,M | 125.7 | 25.3 | -9.0 | -3.6 | 10.6 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | 22.5 | 76.6 | 76.6 | G, V(4) | Q | 203.4 | -31.8 | 15.0 | -7.8 | 16.4 | Cumple |
| G, Q, V(5) | N,M | 304.8 | -31.9 | 18.0 | -9.5 | 16.4 |
| 0.47 m | Cumple | Cumple | 25.0 | 80.9 | 80.9 | G, V(4) | Q | 211.4 | 33.7 | -16.3 | -8.8 | 18.4 | Cumple |
| G, Q, V(5) | N,M | 315.6 | 33.7 | -19.3 | -10.5 | 18.4 |
| Pie | Cumple | Cumple | 25.0 | 80.9 | 80.9 | G, V(4) | Q | 211.4 | 33.7 | -16.3 | -8.8 | 18.4 | Cumple |
| G, Q, V(5) | N,M | 315.6 | 33.7 | -19.3 | -10.5 | 18.4 |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | 28.6 | 70.8 | 70.8 | G, Q, V(6) | Q,N,M | 523.0 | -29.5 | 15.3 | -10.4 | 25.8 | Cumple |
| -0.93 m | Cumple | Cumple | 28.6 | 86.1 | 86.1 | G, Q, V(6) | Q,N,M | 531.6 | 44.5 | -14.5 | -10.4 | 25.8 | Cumple |
| -2.7 m | Cumple | Cumple | 28.6 | 86.1 | 86.1 | G, Q, V(6) | Q,N,M | 531.6 | 44.5 | -14.5 | -10.4 | 25.8 | Cumple |
| Pie | Cumple | Cumple | 28.6 | 86.1 | 86.1 | G, Q, V(6) | Q,N,M | 531.6 | 44.5 | -14.5 | -10.4 | 25.8 | Cumple |
| CIMENTACIÓN | 30x30 | Arranque | N.P.(1) | N.P.(1) | 6.3 | 86.1 | 86.1 | G, V(2) | Q | 470.0 | 44.5 | -12.5 | -8.9 | 26.1 | Cumple |
| G, Q, V(6) | N,M | 531.6 | 44.5 | -14.5 | -10.4 | 25.8 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·Qa(G2)+0.9·V(+Yexc.+)*  *(4) PP+CM+1.5·V(+Yexc.+)*  *(5) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(6) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 87.6 | -2.6 | 0.1 | -0.2 | 2.2 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 95.7 | 5.4 | -0.5 | -0.2 | 2.2 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 95.7 | 5.4 | -0.5 | -0.2 | 2.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 95.7 | 5.4 | -0.5 | -0.2 | 2.2 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 206.1 | -7.0 | 3.3 | -1.9 | 3.6 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 214.1 | 6.0 | -3.8 | -1.9 | 3.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 214.1 | 6.0 | -3.8 | -1.9 | 3.6 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 30x30 | Cabeza | Cumple | Cumple | G(1) | 343.2 | -19.5 | 7.6 | -4.8 | 16.3 | Cumple |
| -0.93 m | Cumple | Cumple | G(1) | 349.5 | 27.3 | -6.3 | -4.8 | 16.3 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 349.5 | 27.3 | -6.3 | -4.8 | 16.3 | Cumple |
| Pie | Cumple | Cumple | G(1) | 349.5 | 27.3 | -6.3 | -4.8 | 16.3 | Cumple |
| CIMENTACIÓN | 30x30 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.20. P19

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.87 - 7.75 m) | 25x35 | Cabeza | Cumple | Cumple | 32.7 | 33.3 | 33.3 | G, Q, V(2) | Q,N,M | 67.0 | 24.2 | 3.7 | -3.5 | -19.4 | Cumple |
| 6.95 m | Cumple | Cumple | 32.0 | 73.6 | 73.6 | G, Q, V(2) | Q,N,M | 77.4 | -45.3 | -8.9 | -3.5 | -19.4 | Cumple |
| 4.47 m | Cumple | Cumple | 32.0 | 73.6 | 73.6 | G, Q, V(2) | Q,N,M | 77.4 | -45.3 | -8.9 | -3.5 | -19.4 | Cumple |
| Pie | Cumple | Cumple | 32.0 | 73.6 | 73.6 | G, Q, V(2) | Q,N,M | 77.4 | -45.3 | -8.9 | -3.5 | -19.4 | Cumple |
| Marquesina (-0.13 - 3.87 m) | 25x35 | Cabeza | Cumple | Cumple | 36.2 | 92.3 | 92.3 | G, Q, V(2) | Q,N,M | 239.3 | 56.2 | 10.7 | -4.3 | -29.6 | Cumple |
| 3 m | Cumple | Cumple | 36.2 | 92.3 | 92.3 | G, Q, V(2) | Q,N,M | 239.3 | 56.2 | 10.7 | -4.3 | -29.6 | Cumple |
| Pie | Cumple | Cumple | 37.3 | 84.4 | 84.4 | G, Q, V(2) | Q,N,M | 249.8 | -55.6 | -5.1 | -4.3 | -31.1 | Cumple |
| CIMENTACIÓN | 25x35 | Arranque | N.P.(1) | N.P.(1) | 8.0 | 84.4 | 84.4 | G, Q, V(2) | Q,N,M | 249.8 | -55.6 | -5.1 | -4.3 | -31.1 | Cumple |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.87 - 7.75 m) | 25x35 | Cabeza | Cumple | Cumple | G(1) | 47.1 | 9.0 | 3.2 | -2.8 | -7.0 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 54.8 | -16.0 | -6.6 | -2.8 | -7.0 | Cumple |
| 4.47 m | Cumple | Cumple | G(1) | 54.8 | -16.0 | -6.6 | -2.8 | -7.0 | Cumple |
| Pie | Cumple | Cumple | G(1) | 54.8 | -16.0 | -6.6 | -2.8 | -7.0 | Cumple |
| Marquesina (-0.13 - 3.87 m) | 25x35 | Cabeza | Cumple | Cumple | G(1) | 150.5 | 17.6 | 7.5 | -3.2 | -7.7 | Cumple |
| 3 m | Cumple | Cumple | G(1) | 150.5 | 17.6 | 7.5 | -3.2 | -7.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 158.3 | -10.5 | -4.2 | -3.2 | -7.7 | Cumple |
| CIMENTACIÓN | 25x35 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.21. P20

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.82 m) | 35x25 | Cabeza | Cumple | Cumple | 15.0 | 42.9 | 42.9 | G, Q, V(2) | Q,N,M | 109.9 | 12.8 | -2.6 | 2.1 | -10.2 | Cumple |
| 6.95 m | Cumple | Cumple | 14.7 | 95.9 | 95.9 | G, Q, V(2) | Q,N,M | 120.4 | -24.4 | 5.2 | 2.1 | -10.2 | Cumple |
| 4.4 m | Cumple | Cumple | 14.7 | 95.9 | 95.9 | G, Q, V(2) | Q,N,M | 120.4 | -24.4 | 5.2 | 2.1 | -10.2 | Cumple |
| Pie | Cumple | Cumple | 14.7 | 95.9 | 95.9 | G, Q, V(2) | Q,N,M | 120.4 | -24.4 | 5.2 | 2.1 | -10.2 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | 16.2 | 84.0 | 84.0 | G, Q, V(3) | Q | 252.2 | 28.2 | -3.8 | 2.2 | -13.9 | Cumple |
| G, Q, V(2) | N,M | 322.9 | 30.9 | -4.0 | 2.3 | -15.1 |
| 3 m | Cumple | Cumple | 16.2 | 84.0 | 84.0 | G, Q, V(3) | Q | 252.2 | 28.2 | -3.8 | 2.2 | -13.9 | Cumple |
| G, Q, V(2) | N,M | 322.9 | 30.9 | -4.0 | 2.3 | -15.1 |
| Pie | Cumple | Cumple | 18.3 | 82.7 | 82.7 | G, Q, V(3) | Q | 260.0 | -28.2 | 4.4 | 2.3 | -15.9 | Cumple |
| G, Q, V(2) | N,M | 333.4 | -29.9 | 4.5 | 2.4 | -17.1 |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 4.3 | 82.7 | 82.7 | G, Q, V(2) | Q,N,M | 333.4 | -29.9 | 4.5 | 2.4 | -17.1 | Cumple |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(3) PP+CM+1.05·Qa(C)+1.5·V(-Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.82 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 77.4 | 3.7 | -0.7 | 0.7 | -2.8 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 85.3 | -6.7 | 1.7 | 0.7 | -2.8 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 85.3 | -6.7 | 1.7 | 0.7 | -2.8 | Cumple |
| Pie | Cumple | Cumple | G(1) | 85.3 | -6.7 | 1.7 | 0.7 | -2.8 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 201.9 | 7.6 | -0.6 | 0.2 | -3.5 | Cumple |
| 3 m | Cumple | Cumple | G(1) | 201.9 | 7.6 | -0.6 | 0.2 | -3.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 209.7 | -4.9 | 0.2 | 0.2 | -3.5 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.22. P21

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CASETÓN (7.82 - 10.7 m) | 30x25 | Cabeza | Cumple | Cumple | 21.1 | 26.9 | 26.9 | G, V(2) | Q,N,M | 56.3 | 8.5 | 6.6 | -6.3 | -9.6 | Cumple |
| 9.9 m | Cumple | Cumple | 20.8 | 58.6 | 58.6 | G, V(2) | Q,N,M | 62.7 | -16.3 | -9.5 | -6.3 | -9.6 | Cumple |
| 8.42 m | Cumple | Cumple | 20.8 | 58.6 | 58.6 | G, V(2) | Q,N,M | 62.7 | -16.3 | -9.5 | -6.3 | -9.6 | Cumple |
| Pie | Cumple | Cumple | 20.8 | 58.6 | 58.6 | G, V(2) | Q,N,M | 62.7 | -16.3 | -9.5 | -6.3 | -9.6 | Cumple |
| CUBIERTA (3.8 - 7.82 m) | 35x25 | Cabeza | Cumple | Cumple | 27.3 | 82.9 | 82.9 | G, Q, V(3) | Q,N,M | 182.2 | 39.8 | -12.1 | 6.3 | -20.1 | Cumple |
| 6.95 m | Cumple | Cumple | 27.3 | 82.9 | 82.9 | G, Q, V(3) | Q,N,M | 182.2 | 39.8 | -12.1 | 6.3 | -20.1 | Cumple |
| 4.4 m | Cumple | Cumple | 27.3 | 82.9 | 82.9 | G, Q, V(3) | Q,N,M | 182.2 | 39.8 | -12.1 | 6.3 | -20.1 | Cumple |
| Pie | Cumple | Cumple | 26.9 | 69.0 | 69.0 | G, Q, V(3) | Q,N,M | 192.8 | -33.5 | 10.7 | 6.3 | -20.1 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | 3.8 m | N.P.(1) | N.P.(1) | 6.1 | 69.0 | 69.0 | G, Q, V(3) | Q,N,M | 192.8 | -33.5 | 10.7 | 6.3 | -20.1 | Cumple |
| Cabeza | Cumple | Cumple | 12.6 | 58.0 | 58.0 | G, Q, V(3) | Q,N,M | 316.5 | 23.6 | -4.7 | 2.5 | -11.6 | Cumple |
| 0.47 m | Cumple | Cumple | 14.6 | 60.0 | 60.0 | G, Q, V(3) | Q,N,M | 327.0 | -24.5 | 4.6 | 2.6 | -13.6 | Cumple |
| Pie | Cumple | Cumple | 14.6 | 60.0 | 60.0 | G, Q, V(3) | Q,N,M | 327.0 | -24.5 | 4.6 | 2.6 | -13.6 | Cumple |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 3.8 | 60.0 | 60.0 | G, Q, V(3) | Q,N,M | 327.0 | -24.5 | 4.6 | 2.6 | -13.6 | Cumple |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.5·V(-Xexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CASETÓN (7.82 - 10.7 m) | 30x25 | Cabeza | Cumple | Cumple | G(1) | 39.7 | 3.6 | 2.9 | -2.4 | -3.8 | Cumple |
| 9.9 m | Cumple | Cumple | G(1) | 44.4 | -6.2 | -3.2 | -2.4 | -3.8 | Cumple |
| 8.42 m | Cumple | Cumple | G(1) | 44.4 | -6.2 | -3.2 | -2.4 | -3.8 | Cumple |
| Pie | Cumple | Cumple | G(1) | 44.4 | -6.2 | -3.2 | -2.4 | -3.8 | Cumple |
| CUBIERTA (3.8 - 7.82 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 129.4 | 16.0 | -5.5 | 2.8 | -8.6 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 129.4 | 16.0 | -5.5 | 2.8 | -8.6 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 129.4 | 16.0 | -5.5 | 2.8 | -8.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 137.2 | -15.3 | 4.8 | 2.8 | -8.6 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 218.4 | 11.2 | -1.3 | 0.5 | -5.2 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 226.2 | -7.6 | 0.5 | 0.5 | -5.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 226.2 | -7.6 | 0.5 | 0.5 | -5.2 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.23. P22

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CASETÓN (7.82 - 10.7 m) | 35x25 | Cabeza | Cumple | Cumple | 10.4 | 18.0 | 18.0 | G, V(2) | Q,N,M | 11.2 | -4.6 | -2.1 | -0.8 | 5.9 | Cumple |
| 9.9 m | Cumple | Cumple | 10.2 | 45.0 | 45.0 | G, V(2) | Q,N,M | 18.7 | 10.6 | -4.2 | -0.8 | 5.9 | Cumple |
| 8.42 m | Cumple | Cumple | 10.2 | 45.0 | 45.0 | G, V(2) | Q,N,M | 18.7 | 10.6 | -4.2 | -0.8 | 5.9 | Cumple |
| Pie | Cumple | Cumple | 10.2 | 45.0 | 45.0 | G, V(2) | Q,N,M | 18.7 | 10.6 | -4.2 | -0.8 | 5.9 | Cumple |
| CUBIERTA (3.8 - 7.82 m) | 35x25 | Cabeza | Cumple | Cumple | 17.7 | 76.2 | 76.2 | G, Q, V(3) | Q,N,M | 56.0 | 20.0 | -8.7 | 5.0 | -9.8 | Cumple |
| 6.95 m | Cumple | Cumple | 17.7 | 76.2 | 76.2 | G, Q, V(3) | Q,N,M | 56.0 | 20.0 | -8.7 | 5.0 | -9.8 | Cumple |
| 4.4 m | Cumple | Cumple | 17.7 | 76.2 | 76.2 | G, Q, V(3) | Q,N,M | 56.0 | 20.0 | -8.7 | 5.0 | -9.8 | Cumple |
| Pie | Cumple | Cumple | 17.3 | 51.0 | 51.0 | G, Q, V(3) | Q,N,M | 66.5 | -15.6 | 9.6 | 5.0 | -9.8 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | 3.8 m | N.P.(1) | N.P.(1) | 3.0 | 51.0 | 51.0 | G, Q, V(3) | Q,N,M | 66.5 | -15.6 | 9.6 | 5.0 | -9.8 | Cumple |
| Cabeza | Cumple | Cumple | 12.0 | 46.2 | 46.2 | G, Q, V(4) | Q | 148.4 | 10.3 | -11.1 | 6.8 | -5.4 | Cumple |
| G, Q, V(5) | N,M | 144.8 | 14.3 | -4.1 | 1.4 | -7.9 |
| 0.47 m | Cumple | Cumple | 13.9 | 72.7 | 72.7 | G, Q, V(3) | Q,N,M | 160.4 | -20.9 | 5.2 | 3.1 | -10.0 | Cumple |
| Pie | Cumple | Cumple | 13.9 | 72.7 | 72.7 | G, Q, V(3) | Q,N,M | 160.4 | -20.9 | 5.2 | 3.1 | -10.0 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 35x25 | -0.13 m | N.P.(1) | N.P.(1) | 2.8 | 72.7 | 72.7 | G, Q, V(3) | Q,N,M | 160.4 | -20.9 | 5.2 | 3.1 | -10.0 | Cumple |
| Cabeza | Cumple | Cumple | 31.7 | 9.7 | 31.7 | G, Q, V(4) | Q | 116.4 | 2.5 | 4.5 | -20.8 | 4.3 | Cumple |
| G, Q, V(5) | N,M | 109.6 | 4.1 | 2.8 | -13.8 | -1.0 |
| -2.7 m | Cumple | Cumple | 10.6 | 43.6 | 43.6 | G, V(2) | Q,N,M | 36.4 | 12.1 | 0.1 | 0.0 | 6.4 | Cumple |
| Pie | Cumple | Cumple | 6.6 | 63.6 | 63.6 | G, V(6) | Q | 43.4 | 11.8 | 0.6 | 3.7 | 0.8 | Cumple |
| G, V(2) | N,M | 38.7 | 16.3 | 0.4 | 2.5 | 1.1 |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 1.0 | 63.6 | 63.6 | G, V(6) | Q | 43.4 | 11.8 | 0.6 | 3.7 | 0.8 | Cumple |
| G, V(2) | N,M | 38.7 | 16.3 | 0.4 | 2.5 | 1.1 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(4) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Xexc.-)*  *(5) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(6) 1.35·PP+1.35·CM+1.5·V(+Xexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CASETÓN (7.82 - 10.7 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 10.7 | -0.9 | -1.8 | -0.2 | 2.4 | Cumple |
| 9.9 m | Cumple | Cumple | G(1) | 16.2 | 5.3 | -2.2 | -0.2 | 2.4 | Cumple |
| 8.42 m | Cumple | Cumple | G(1) | 16.2 | 5.3 | -2.2 | -0.2 | 2.4 | Cumple |
| Pie | Cumple | Cumple | G(1) | 16.2 | 5.3 | -2.2 | -0.2 | 2.4 | Cumple |
| CUBIERTA (3.8 - 7.82 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 30.8 | 3.7 | -4.4 | 2.7 | -2.5 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 30.8 | 3.7 | -4.4 | 2.7 | -2.5 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 30.8 | 3.7 | -4.4 | 2.7 | -2.5 | Cumple |
| Pie | Cumple | Cumple | G(1) | 38.6 | -5.4 | 5.5 | 2.7 | -2.5 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 93.6 | 7.3 | -3.3 | 1.3 | -3.9 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 101.4 | -6.9 | 1.5 | 1.3 | -3.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 101.4 | -6.9 | 1.5 | 1.3 | -3.9 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 70.9 | 1.8 | 1.9 | -9.5 | 3.4 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 28.4 | 5.7 | 0.2 | -0.7 | 3.2 | Cumple |
| Pie | Cumple | Cumple | G(1) | 28.6 | 8.2 | 0.3 | 1.2 | 0.5 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.24. P23

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | 11.0 | 39.7 | 39.7 | G, Q, V(2) | Q,N,M | 6.9 | -8.6 | -1.2 | 0.8 | 6.2 | Cumple |
| 6.95 m | Cumple | Cumple | 10.8 | 62.2 | 62.2 | G, Q, V(2) | Q,N,M | 17.5 | 14.1 | 1.5 | 0.8 | 6.2 | Cumple |
| 4.4 m | Cumple | Cumple | 10.8 | 62.2 | 62.2 | G, Q, V(2) | Q,N,M | 17.5 | 14.1 | 1.5 | 0.8 | 6.2 | Cumple |
| Pie | Cumple | Cumple | 10.8 | 62.2 | 62.2 | G, Q, V(2) | Q,N,M | 17.5 | 14.1 | 1.5 | 0.8 | 6.2 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | 15.6 | 43.5 | 43.5 | G, V(3) | Q,N,M | 29.3 | -18.8 | 0.3 | -0.1 | 9.3 | Cumple |
| 0.47 m | Cumple | Cumple | 18.6 | 47.5 | 47.5 | G, V(3) | Q | 39.8 | 21.0 | -0.1 | -0.1 | 11.3 | Cumple |
| G, V(4) | N,M | 25.0 | 19.9 | 0.3 | 0.1 | 10.7 |
| Pie | Cumple | Cumple | 18.6 | 47.5 | 47.5 | G, V(3) | Q | 39.8 | 21.0 | -0.1 | -0.1 | 11.3 | Cumple |
| G, V(4) | N,M | 25.0 | 19.9 | 0.3 | 0.1 | 10.7 |
| PLANTA BAJA (-3.3 - -0.13 m) | 35x25 | Cabeza | Cumple | Cumple | 30.0 | 39.3 | 39.3 | G, V(5) | Q,N,M | 72.3 | -19.2 | -9.9 | 8.9 | 15.9 | Cumple |
| -0.93 m | Cumple | Cumple | 29.5 | 63.7 | 63.7 | G, V(5) | Q | 80.6 | 26.5 | 15.6 | 8.9 | 15.9 | Cumple |
| G, Q, V(6) | N,M | 50.8 | 27.4 | 10.7 | 4.9 | 15.7 |
| -2.7 m | Cumple | Cumple | 29.5 | 63.7 | 63.7 | G, V(5) | Q | 80.6 | 26.5 | 15.6 | 8.9 | 15.9 | Cumple |
| G, Q, V(6) | N,M | 50.8 | 27.4 | 10.7 | 4.9 | 15.7 |
| Pie | Cumple | Cumple | 29.5 | 63.7 | Cumple | G, V(5) | Q | 80.6 | 26.5 | 15.6 | 8.9 | 15.9 | Cumple |
| G, Q, V(6) | N,M | 50.8 | 27.4 | 10.7 | 4.9 | 15.7 |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 5.4 | 63.7 | 63.7 | G, V(5) | Q | 80.6 | 26.5 | 15.6 | 8.9 | 15.9 | Cumple |
| G, Q, V(6) | N,M | 50.8 | 27.4 | 10.7 | 4.9 | 15.7 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.5·V(+Yexc.+)*  *(4) PP+CM+1.5·V(+Yexc.+)*  *(5) 1.35·PP+1.35·CM+1.5·V(-Xexc.-)*  *(6) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 6.0 | -2.0 | -0.8 | 0.5 | 1.4 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 13.8 | 3.1 | 1.2 | 0.5 | 1.4 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 13.8 | 3.1 | 1.2 | 0.5 | 1.4 | Cumple |
| Pie | Cumple | Cumple | G(1) | 13.8 | 3.1 | 1.2 | 0.5 | 1.4 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 34.6 | -3.7 | 0.8 | -0.6 | 1.9 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 42.4 | 3.2 | -1.3 | -0.6 | 1.9 | Cumple |
| Pie | Cumple | Cumple | G(1) | 42.4 | 3.2 | -1.3 | -0.6 | 1.9 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 44.7 | -12.8 | -3.5 | 4.5 | 10.7 | Cumple |
| -0.93 m | Cumple | Cumple | G(1) | 50.9 | 17.9 | 9.4 | 4.5 | 10.7 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 50.9 | 17.9 | 9.4 | 4.5 | 10.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 50.9 | 17.9 | 9.4 | 4.5 | 10.7 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.25. P24

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | 9.5 | 17.4 | 17.4 | G, V(2) | Q | 65.1 | -0.6 | -7.5 | 5.7 | 0.4 | Cumple |
| G, V(3) | N,M | 45.1 | -7.3 | -2.2 | 1.5 | 5.4 |
| 6.95 m | Cumple | Cumple | 9.2 | 38.4 | 38.4 | G, V(2) | Q | 75.7 | 0.7 | 13.3 | 5.7 | 0.4 | Cumple |
| G, V(3) | N,M | 52.9 | 12.5 | 3.3 | 1.5 | 5.4 |
| 4.4 m | Cumple | Cumple | 9.2 | 38.4 | 38.4 | G, V(2) | Q | 75.7 | 0.7 | 13.3 | 5.7 | 0.4 | Cumple |
| G, V(3) | N,M | 52.9 | 12.5 | 3.3 | 1.5 | 5.4 |
| Pie | Cumple | Cumple | 9.2 | 38.4 | 38.4 | G, V(2) | Q | 75.7 | 0.7 | 13.3 | 5.7 | 0.4 | Cumple |
| G, V(3) | N,M | 52.9 | 12.5 | 3.3 | 1.5 | 5.4 |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | 14.1 | 45.8 | 45.8 | G, Q, V(4) | Q | 149.8 | 2.3 | 14.6 | -8.1 | -1.9 | Cumple |
| G, Q, V(5) | N,M | 220.5 | 18.6 | 3.4 | -2.1 | -9.9 |
| 0.47 m | Cumple | Cumple | 15.3 | 55.6 | 55.6 | G, Q, V(6) | Q | 180.0 | -22.7 | -4.2 | -2.1 | -11.7 | Cumple |
| G, Q, V(5) | N,M | 231.0 | -23.5 | -4.3 | -2.1 | -12.0 |
| Pie | Cumple | Cumple | 15.3 | 55.6 | 55.6 | G, Q, V(6) | Q | 180.0 | -22.7 | -4.2 | -2.1 | -11.7 | Cumple |
| G, Q, V(5) | N,M | 231.0 | -23.5 | -4.3 | -2.1 | -12.0 |
| PLANTA BAJA (-3.3 - -0.13 m) | 35x25 | Cabeza | Cumple | Cumple | 18.0 | 41.3 | 41.3 | G, V(7) | Q | 291.6 | -13.0 | -5.3 | 5.8 | 14.8 | Cumple |
| G, Q, V(8) | N,M | 344.9 | -11.5 | -7.0 | 6.6 | 13.2 |
| -0.93 m | Cumple | Cumple | 17.8 | 65.9 | 65.9 | G, V(7) | Q | 299.9 | 29.4 | 11.4 | 5.8 | 14.8 | Cumple |
| G, Q, V(9) | N,M | 338.8 | 29.7 | 10.1 | 4.8 | 14.4 |
| -2.7 m | Cumple | Cumple | 17.8 | 65.9 | 65.9 | G, V(7) | Q | 299.9 | 29.4 | 11.4 | 5.8 | 14.8 | Cumple |
| G, Q, V(9) | N,M | 338.8 | 29.7 | 10.1 | 4.8 | 14.4 |
| Pie | Cumple | Cumple | 17.8 | 65.9 | 65.9 | G, V(7) | Q | 299.9 | 29.4 | 11.4 | 5.8 | 14.8 | Cumple |
| G, Q, V(9) | N,M | 338.8 | 29.7 | 10.1 | 4.8 | 14.4 |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 4.4 | 65.9 | 65.9 | G, V(7) | Q | 299.9 | 29.4 | 11.4 | 5.8 | 14.8 | Cumple |
| G, Q, V(9) | N,M | 338.8 | 29.7 | 10.1 | 4.8 | 14.4 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.5·V(+Xexc.-)*  *(3) PP+CM+1.5·V(+Yexc.+)*  *(4) PP+CM+1.05·Qa(C)+1.5·V(-Xexc.-)*  *(5) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(6) PP+CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(7) 1.35·PP+1.35·CM+1.5·V(+Yexc.-)*  *(8) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Xexc.-)*  *(9) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.-)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 48.2 | -0.4 | -1.2 | 0.8 | 0.3 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 56.0 | 0.7 | 1.8 | 0.8 | 0.3 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 56.0 | 0.7 | 1.8 | 0.8 | 0.3 | Cumple |
| Pie | Cumple | Cumple | G(1) | 56.0 | 0.7 | 1.8 | 0.8 | 0.3 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 137.8 | 0.2 | -0.1 | -0.1 | -0.7 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 145.6 | -2.2 | -0.3 | -0.1 | -0.7 | Cumple |
| Pie | Cumple | Cumple | G(1) | 145.6 | -2.2 | -0.3 | -0.1 | -0.7 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 233.9 | -8.6 | -3.8 | 4.2 | 9.4 | Cumple |
| -0.93 m | Cumple | Cumple | G(1) | 240.1 | 18.4 | 8.4 | 4.2 | 9.4 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 240.1 | 18.4 | 8.4 | 4.2 | 9.4 | Cumple |
| Pie | Cumple | Cumple | G(1) | 240.1 | 18.4 | 8.4 | 4.2 | 9.4 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.26. P25

| Sección de hormigón - Temperatura ambiente | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Disp. | Arm. | Q  (%) | N,M  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | 15.7 | 40.2 | 40.2 | G, Q, V(2) | Q,N,M | 118.0 | 11.8 | 6.6 | -5.2 | -9.7 | Cumple |
| 6.95 m | Cumple | Cumple | 15.4 | 92.6 | 92.6 | G, Q, V(2) | Q,N,M | 128.6 | -23.5 | -12.4 | -5.2 | -9.7 | Cumple |
| 4.4 m | Cumple | Cumple | 15.4 | 92.6 | 92.6 | G, Q, V(2) | Q,N,M | 128.6 | -23.5 | -12.4 | -5.2 | -9.7 | Cumple |
| Pie | Cumple | Cumple | 15.4 | 92.6 | 92.6 | G, Q, V(2) | Q,N,M | 128.6 | -23.5 | -12.4 | -5.2 | -9.7 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | 23.3 | 94.7 | 94.7 | G, Q, V(2) | Q,N,M | 367.8 | 35.2 | 17.9 | -9.2 | -19.0 | Cumple |
| 0.47 m | Cumple | Cumple | 25.1 | 99.4 | 99.4 | G, Q, V(2) | Q,N,M | 378.3 | -39.6 | -15.8 | -9.3 | -21.0 | Cumple |
| Pie | Cumple | Cumple | 25.1 | 99.4 | 99.4 | G, Q, V(2) | Q,N,M | 378.3 | -39.6 | -15.8 | -9.3 | -21.0 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 35x25 | -0.13 m | N.P.(1) | N.P.(1) | 6.2 | 99.4 | 99.4 | G, Q, V(2) | Q,N,M | 378.3 | -39.6 | -15.8 | -9.3 | -21.0 | Cumple |
| Cabeza | Cumple | Cumple | 12.5 | 62.1 | 62.1 | G, V(3) | Q | 474.6 | -7.0 | 1.1 | 1.1 | 12.0 | Cumple |
| G, Q, V(4) | N,M | 618.5 | 4.3 | 6.8 | -2.1 | 3.5 |
| -2.7 m | Cumple | Cumple | 12.5 | 71.2 | 71.2 | G, V(3) | Q | 482.9 | 27.3 | 4.2 | 1.1 | 12.0 | Cumple |
| G, Q, V(5) | N,M | 548.6 | 27.5 | 3.5 | -0.2 | 11.0 |
| Pie | Cumple | Cumple | 12.5 | 71.2 | 71.2 | G, V(3) | Q | 482.9 | 27.3 | 4.2 | 1.1 | 12.0 | Cumple |
| G, Q, V(5) | N,M | 548.6 | 27.5 | 3.5 | -0.2 | 11.0 |
| CIMENTACIÓN | 35x25 | Arranque | N.P.(1) | N.P.(1) | 2.9 | 71.2 | 71.2 | G, V(3) | Q | 482.9 | 27.3 | 4.2 | 1.1 | 12.0 | Cumple |
| G, Q, V(5) | N,M | 548.6 | 27.5 | 3.5 | -0.2 | 11.0 |
| *Notas:*  *(1) La comprobación no procede*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.+)*  *(3) 1.35·PP+1.35·CM+1.5·V(+Yexc.-)*  *(4) 1.35·PP+1.35·CM+1.5·Qa(C)+0.9·V(-Yexc.-)*  *(5) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Yexc.+)* | | | | | | | | | | | | | | | |

| Sección de hormigón - Situación de incendio | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Dimensión  (cm) | Posición | Comprobaciones | | Esfuerzos pésimos | | | | | | Estado |
| Inc. | Aprov.  (%) | Naturaleza | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| CUBIERTA (3.8 - 7.75 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 84.1 | 2.7 | 3.5 | -2.7 | -2.3 | Cumple |
| 6.95 m | Cumple | Cumple | G(1) | 91.9 | -5.8 | -6.2 | -2.7 | -2.3 | Cumple |
| 4.4 m | Cumple | Cumple | G(1) | 91.9 | -5.8 | -6.2 | -2.7 | -2.3 | Cumple |
| Pie | Cumple | Cumple | G(1) | 91.9 | -5.8 | -6.2 | -2.7 | -2.3 | Cumple |
| Marquesina (-0.13 - 3.8 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 232.5 | 9.3 | 8.7 | -4.3 | -5.6 | Cumple |
| 0.47 m | Cumple | Cumple | G(1) | 240.3 | -10.9 | -7.1 | -4.3 | -5.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 240.3 | -10.9 | -7.1 | -4.3 | -5.6 | Cumple |
| PLANTA BAJA (-3.3 - -0.13 m) | 35x25 | Cabeza | Cumple | Cumple | G(1) | 372.7 | -1.7 | 2.2 | -0.1 | 5.6 | Cumple |
| -2.7 m | Cumple | Cumple | G(1) | 378.9 | 14.4 | 1.8 | -0.1 | 5.6 | Cumple |
| Pie | Cumple | Cumple | G(1) | 378.9 | 14.4 | 1.8 | -0.1 | 5.6 | Cumple |
| CIMENTACIÓN | 35x25 | - | - | - | - | - | - | - | - | - | - |
| *Notas:*  *(1) PP+CM* | | | | | | | | | | | |

1.27. PM1

| Sección de acero laminado - Temperatura ambiente | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Sección | Posición | Comprobaciones | | | | | | | | | Esfuerzos pésimos | | | | | | | Estado |
|  | w | Nc  (%) | MY  (%) | MZ  (%) | VZ  (%) | NMYMZ  (%) | MtVZ  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| Marquesina (-0.13 - 2.85 m) | 2xUPN 80([]) | Cabeza | Cumple | Cumple | 20.5 | 14.8 | 3.7 | 1.4 | 31.6 | 1.4 | 31.6 | G, Q, V(1) | Nc | 63.2 | 1.4 | 0.4 | -0.3 | -0.8 | Cumple |
| G, Q, V(2) | MY,VZ,MtVZ | 51.5 | 2.5 | 0.0 | 0.0 | -1.7 |
| G, V(3) | MZ | 58.9 | 1.3 | 0.6 | -0.4 | -0.7 |
| G, Q, V(4) | NMYMZ | 58.7 | 2.1 | 0.1 | 0.0 | -1.4 |
| Pie | Cumple | Cumple | 20.7 | 12.2 | 3.6 | 1.4 | 28.7 | 1.4 | 28.7 | G, Q, V(1) | Nc | 63.8 | -0.9 | -0.3 | -0.3 | -0.8 | Cumple |
| G, Q, V(2) | MY,VZ,NMYMZ,MtVZ | 52.1 | -2.0 | 0.0 | 0.0 | -1.7 |
| G, Q, V(5) | MZ | 41.8 | -0.6 | 0.6 | 0.4 | -0.6 |
| *Notas:*  *(1) 1.35·PP+1.35·CM+1.5·Qa(G2)+0.9·V(-Xexc.+)*  *(2) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(-Yexc.-)*  *(3) 1.35·PP+1.35·CM+1.5·V(-Xexc.-)*  *(4) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·Qa(G2)+0.9·V(-Yexc.-)*  *(5) 1.35·PP+1.35·CM+1.05·Qa(C)+1.5·V(+Xexc.-)* | | | | | | | | | | | | | | | | | | | |

| Sección de acero laminado - Situación de incendio | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tramo | Sección | Posición | Comprobaciones | | | | | | | Esfuerzos pésimos | | | | | | | Estado |
| Nc  (%) | MY  (%) | MZ  (%) | VZ  (%) | NMYMZ  (%) | MtVZ  (%) | Aprov.  (%) | Naturaleza | Comp. | N  (kN) | Mxx  (kN·m) | Myy  (kN·m) | Qx  (kN) | Qy  (kN) |
| Marquesina (-0.13 - 2.85 m) | 2xUPN 80([]) | Cabeza | 49.3 | 21.6 | 3.7 | 2.0 | 71.6 | 2.0 | 71.6 | G, V(1) | Nc | 40.0 | 0.9 | 0.2 | -0.1 | -0.5 | Cumple |
| G, Q, V(2) | MY,VZ,NMYMZ,MtVZ | 37.5 | 1.3 | 0.0 | 0.0 | -0.8 |
| G, V(3) | MZ | 40.0 | 0.9 | 0.2 | -0.1 | -0.5 |
| Pie | 49.9 | 15.9 | 3.6 | 2.0 | 65.6 | 2.0 | 65.6 | G, V(1) | Nc | 40.5 | -0.6 | -0.2 | -0.1 | -0.5 | Cumple |
| G, Q, V(2) | MY,VZ,NMYMZ,MtVZ | 38.0 | -1.0 | 0.0 | 0.0 | -0.8 |
| G, Q, V(4) | MZ | 34.5 | -0.5 | 0.2 | 0.1 | -0.5 |
| *Notas:*  *(1) PP+CM+0.5·V(-Xexc.+)*  *(2) PP+CM+0.6·Qa(C)+0.5·V(-Yexc.-)*  *(3) PP+CM+0.5·V(-Xexc.-)*  *(4) PP+CM+0.6·Qa(C)+0.5·V(+Xexc.-)* | | | | | | | | | | | | | | | | | |