

PREFABRICATS LOMAR, S.L.

Muntanyola, 2
08400 GRANOLLERS (Barcelona)

TÉCNICO AUTOR DE LA MEMORIA: Jordi Amat

Hoja nº 48 de 48



Generalitat de Catalunya
Direcció General
d'Arquitectura i Habitatge

040004 17.10.00

CADUCA ALS 5 ANYS
AUTORIZACIÓ ADMINISTRATIVA
VISAT

FLEXION POSITIVA (por m)

| TIPO DE FORJADO (h+c) * s | TIPO DE VIGUETA | MOMENTO ÚLTIMO | ESFUERZO CORTANTE ÚLTIMO | | ESFUERZO RASANTE | MOMENTO FISURACIÓN | RIGIDEZ TOTAL Y FISURADA | | MOMENTO LIMITE DE SERVICIO | | |
|----------------------------------|-----------------|----------------|--------------------------|---------------------|------------------|-----------------------|--------------------------|------|----------------------------------------|------|------|
| | | Mu | Vu2 6.3.3.1.b) EF-96 | Vu 6.3.3.2.a) EF-96 | Sección tipo | (hormigón in situ) Mf | E Ib | E If | FISUR.CON. FIS./TRACC. DESCOMPR. CLASE | | |
| | | m KN/m [3] | KN/m [4] | KN/m [4] | KN/m [5] | m KN/m [6] | m ² MN/m [6] | | III | II | I |
| (25+5) * 81. D | T-12- 1 | 36.7 | 61.5 | 50.3 | 58.6 | 23.7 | 30.1 | 26.2 | 39.0 | 33.7 | 23.3 |
| | 2 | 56.7 | 73.8 | 60.3 | 58.6 | 24.0 | 30.4 | 26.6 | 52.0 | 46.6 | 36.0 |
| | 3 | 75.4 | 78.0 | 64.5 | 57.5 | 24.3 | 30.8 | 27.0 | 65.4 | 59.9 | 49.1 |
| | 4 | 92.4 | 76.5 | 62.0 | 56.1 | 24.5 | 31.1 | 27.3 | 73.8 | 68.2 | 57.2 |
| | 5 | 109.8 | 78.4 | 64.4 | 57.8 | 24.8 | 31.4 | 27.7 | 87.5 | 81.8 | 70.6 |
| | 6 | 126.0 | 77.1 | 62.7 | 56.6 | 25.0 | 31.7 | 28.0 | 96.1 | 90.3 | 79.0 |

FLEXION NEGATIVA (por m)

| REFUERZO SUPERIOR POR NERVIO | B400 MOMENTO Y CORTANTE ULTIMO-ABERT. FISURA | | | | | | B500 MOMENTO Y CORTANTE ULTIMO-ABERT. FISURA | | | | | | ESFUERZO RASANTE Vu2 | MOMENTO DE FIS. Mf | RIGIDEZ TOTAL Y FISURADA | | | | | | |
|------------------------------|----------------------------------------------|----------|-------------|----------------|---------|------|----------------------------------------------|------|------|----------------|-------------|------|----------------------|--------------------|--------------------------|------------|-------------------------|------|------|------|-----|
| | Sección tipo | | | Sección maciza | | | Sección tipo | | | Sección maciza | | | | | KN/m [5] | m KN/m [6] | m ² MN/m [6] | E Ib | E If | | |
| | Mu | Rel. x/d | Vig. límite | Vu2 | Wk | Mu | Rel. x/d | Wk | Mu | Rel. x/d | Vig. Límite | Vu2 | | | | | | | | Wk | m |
| m | KN/m [3] | [8] | [9] | KN/m [4] | mm [10] | m | KN/m [3] | [8] | [10] | m | KN/m | KN/m | mm | m | mm | | | | | | |
| 1ø8 | | | | | | | | | | | | | | 57.3 | 30.1 | 29.5 | 1.3 | | | | |
| 1ø10 | | | | | | | | | | | | | | 57.1 | 30.2 | 29.6 | 1.6 | | | | |
| 2ø8 | | | | | | | | | | 10.7 | 0.05 | 6 | 47.7 | 0.23 | 57.3 | 30.4 | 29.7 | 2.0 | | | |
| 1ø12 | | | | | | | | | | 12.0 | 0.06 | 6 | 48.6 | 0.28 | 56.8 | 30.4 | 29.7 | 2.1 | | | |
| 1ø8+1ø10 | 11.0 | 0.05 | 6 | 47.9 | 0.24 | | | | | 13.6 | 0.07 | 6 | 50.1 | 0.30 | 57.1 | 30.5 | 29.8 | 2.3 | | | |
| 2ø10 | 13.4 | 0.07 | 6 | 49.8 | 0.21 | | | | | 16.5 | 0.09 | 6 | 52.5 | 0.27 | 57.1 | 30.7 | 29.9 | 2.7 | | | |
| 1ø10+1ø12 | 16.2 | 0.08 | 6 | 52.2 | 0.23 | | | | | 19.9 | 0.11 | 6 | 55.5 | 0.29 | 56.9 | 30.9 | 30.0 | 3.1 | | | |
| 2ø12 | 18.9 | 0.10 | 6 | 54.6 | 0.21 | | | | | 31.0 | 0.13 | 6 | 58.5 | 0.27 | 56.8 | 31.1 | 30.1 | 3.5 | | | |
| 1ø10+1ø16 | 30.6 | 0.13 | 6 | 58.2 | 0.24 | | | | | 37.6 | 0.16 | 6 | 63.0 | 0.30 | 56.6 | 31.4 | 30.2 | 4.0 | | | |
| 1ø12+1ø16 | 34.2 | 0.14 | 6 | 60.7 | 0.23 | | | | | 41.8 | 0.18 | 6 | 66.1 | 0.28 | 56.6 | 31.6 | 30.4 | 4.4 | | | |
| 2ø16 | 42.8 | 0.19 | 6 | 66.8 | 0.21 | | | | | 52.0 | 0.28 | 6 | 73.7 | 0.26 | 56.4 | 32.1 | 30.6 | 5.3 | | | |
| 4ø12 | 48.0 | 0.23 | 6 | 70.5 | 0.16 | | | | | 57.9 | 0.32 | 6 | 77.3 | 0.20 | 63.2 | 0.03 | 0.28 | 56.8 | 32.5 | 30.8 | 5.8 |
| 2ø16+1ø12 | 53.4 | 0.29 | 6 | 74.8 | 0.19 | 57.7 | 0.03 | 0.26 | | 64.1 | 0.35 | 6 | 77.0 | 0.24 | 71.3 | 0.04 | 0.32 | 56.5 | 32.8 | 31.0 | 6.3 |
| 3ø16 | 60.8 | 0.34 | 6 | 76.9 | 0.18 | 67.1 | 0.03 | 0.24 | | 72.7 | 0.40 | 6 | 76.9 | 0.23 | 82.7 | 0.04 | 0.30 | 56.4 | 33.3 | 31.3 | 7.1 |
| 4ø16 | 76.9 | 0.42 | 6 | 76.9 | 0.17 | 88.4 | 0.05 | 0.24 | | 91.0 | 0.51 | 6 | 76.9 | 0.21 | 108.7 | 0.06 | 0.30 | 56.4 | 34.5 | 31.9 | 8.7 |

RELACION α o RELACION W1,c / W1,s [11]: 7.18
 INCREMENTO EXCENTRICIDAD (e,c-e,s), cm [12]: 14.87
 ESFUERZO CORTANTE ULTIMO Vu2, Sección tipo, KN/m [13]: 59.9
 ESFUERZO CORTANTE ULTIMO Vu1, Sección maciza, KN/m: 125.4
 ESFUERZO RASANTE ULTIMO Vu2, Sección maciza, KN/m: 93.6