

Charge maximale admissible (kg) uniformément répartie et compte tenu du poids propre

Poutrelle avec appui simple aux extrémités

Contrainte maximale du matériau = 12kN/cm<sup>2</sup>

| UPE | Poids<br>(Kg/m) | L = Travée (m) |       |       |       |       |       |       |       |      |                        |      |      |
|-----|-----------------|----------------|-------|-------|-------|-------|-------|-------|-------|------|------------------------|------|------|
|     |                 | 1              | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9    | 10                     | 11   | 12   |
| 80  | 7.9             | 2560           | 850   | 360   | 180   |       |       |       |       |      |                        |      |      |
| 100 | 9.8             | 3960           | 1650  | 710   | 380   |       |       |       |       |      | L/500 < flèche ≤ L/300 |      |      |
| 120 | 12.1            | 5800           | 2880  | 1270  | 680   | 410   |       |       |       |      | flèche ≤ L/500         |      |      |
| 140 | 14.5            | 8210           | 4080  | 2110  | 1150  | 700   | 450   |       |       |      |                        |      |      |
| 160 | 17.0            |                | 5430  | 3210  | 1770  | 1090  | 710   | 490   |       |      |                        |      |      |
| 180 | 19.7            |                | 7170  | 4750  | 2660  | 1660  | 1090  | 760   | 520   |      |                        |      |      |
| 200 | 22.8            |                | 9120  | 6040  | 3760  | 2350  | 1570  | 1110  | 780   | 560  | 400                    |      |      |
| 220 | 26.6            |                | 11650 | 7730  | 5310  | 3330  | 2240  | 1590  | 1140  | 830  | 610                    | 420  |      |
| 240 | 30.2            |                | 14300 | 9500  | 7080  | 4490  | 3040  | 2170  | 1570  | 1160 | 870                    | 630  | 450  |
| 270 | 35.2            |                | 18600 | 12290 | 9180  | 6600  | 4500  | 3220  | 2370  | 1790 | 1350                   | 1020 | 750  |
| 300 | 44.4            |                | 21900 | 16600 | 12340 | 9800  | 6740  | 4840  | 3590  | 2720 | 2080                   | 1600 | 1220 |
| 330 | 53.2            |                |       | 21200 | 15700 | 12500 | 9550  | 6880  | 5120  | 3920 | 3030                   | 2360 | 1840 |
| 360 | 61.2            |                |       | 26200 | 19500 | 15500 | 12920 | 9330  | 6990  | 5360 | 4170                   | 3280 | 2590 |
| 400 | 72.2            |                |       | 33400 | 24900 | 19800 | 18370 | 13310 | 10000 | 7710 | 6050                   | 4800 | 3830 |