

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

Poutrelle avec appui simple aux extrémités

Contrainte maximale du matériau = 12kN/cm²

| UPE | Poids (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 |