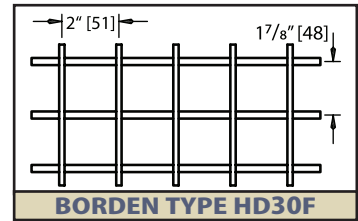
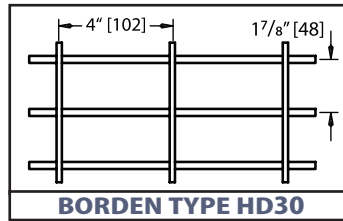


Caillebotis Extra Forts

TABLEAU DES CHARGES



| N° | Dimension de la barre porteuse | Poids lb/pi² | Moment d'inertie po⁴ | Module d'inertie po³ | | Portée en pouces | | | | | | | | | | | | | |
|----------|--------------------------------|--------------|----------------------|----------------------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--|
| | | | | | | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 96 | 108 | |
| 8HD30-4 | 1½" x ¼" | 9.60 | 0.4500 | 0.6000 | U | 2000 | 1280 | 889 | 653 | 500 | 395 | 320 | 264 | 222 | 189 | 163 | 125 | 99 | |
| | | Du | | | 0.055 | 0.086 | 0.124 | 0.169 | 0.221 | 0.279 | 0.345 | 0.417 | 0.497 | 0.583 | 0.676 | 0.883 | 1.117 | | |
| | | Dc | | | 0.044 | 0.069 | 0.099 | 0.135 | 0.177 | 0.223 | 0.276 | 0.334 | 0.397 | 0.466 | 0.541 | 0.706 | 0.894 | | |
| 8HD30-6 | 1½" x ⅜" | 14.16 | 0.6750 | 0.9000 | U | 3000 | 1920 | 1333 | 980 | 750 | 593 | 480 | 397 | 333 | 284 | 245 | 188 | 148 | |
| | | Du | | | 0.055 | 0.086 | 0.124 | 0.169 | 0.221 | 0.279 | 0.345 | 0.417 | 0.497 | 0.583 | 0.676 | 0.883 | 1.117 | | |
| | | Dc | | | 0.044 | 0.069 | 0.099 | 0.135 | 0.177 | 0.223 | 0.276 | 0.334 | 0.397 | 0.466 | 0.541 | 0.706 | 0.894 | | |
| 9HD30-4 | 1¾" x ¼" | 10.96 | 0.7146 | 0.8167 | U | 2722 | 1742 | 1210 | 889 | 681 | 538 | 436 | 360 | 302 | 258 | 222 | 170 | 134 | |
| | | Du | | | 0.047 | 0.074 | 0.106 | 0.145 | 0.189 | 0.239 | 0.296 | 0.358 | 0.426 | 0.500 | 0.579 | 0.757 | 0.958 | | |
| | | Dc | | | 0.038 | 0.059 | 0.085 | 0.116 | 0.151 | 0.192 | 0.236 | 0.286 | 0.340 | 0.400 | 0.463 | 0.605 | 0.766 | | |
| 9HD30-6 | 1¾" x ⅜" | 16.21 | 1.0719 | 1.2250 | U | 4083 | 2613 | 1815 | 1333 | 1021 | 807 | 653 | 540 | 454 | 387 | 333 | 255 | 202 | |
| | | Du | | | 0.047 | 0.074 | 0.106 | 0.145 | 0.189 | 0.239 | 0.296 | 0.358 | 0.426 | 0.500 | 0.579 | 0.757 | 0.958 | | |
| | | Dc | | | 0.038 | 0.059 | 0.085 | 0.116 | 0.151 | 0.192 | 0.236 | 0.286 | 0.340 | 0.400 | 0.463 | 0.605 | 0.766 | | |
| 10HD30-4 | 2" x ¼" | 12.32 | 1.0667 | 1.0667 | U | 3556 | 2276 | 1580 | 1161 | 889 | 702 | 569 | 470 | 395 | 337 | 290 | 222 | 176 | |
| | | Du | | | 0.041 | 0.065 | 0.093 | 0.127 | 0.166 | 0.209 | 0.259 | 0.313 | 0.372 | 0.437 | 0.507 | 0.662 | 0.838 | | |
| | | Dc | | | 0.033 | 0.052 | 0.074 | 0.101 | 0.132 | 0.168 | 0.207 | 0.250 | 0.298 | 0.350 | 0.406 | 0.530 | 0.670 | | |
| 10HD30-6 | 2" x ⅜" | 18.25 | 1.6000 | 1.6000 | U | 5333 | 3413 | 2370 | 1741 | 1333 | 1053 | 853 | 705 | 593 | 505 | 435 | 333 | 263 | |
| | | Du | | | 0.041 | 0.065 | 0.093 | 0.127 | 0.166 | 0.209 | 0.259 | 0.313 | 0.372 | 0.437 | 0.507 | 0.662 | 0.838 | | |
| | | Dc | | | 0.033 | 0.052 | 0.074 | 0.101 | 0.132 | 0.168 | 0.207 | 0.250 | 0.298 | 0.350 | 0.406 | 0.530 | 0.670 | | |
| 11HD30-4 | 2¼" x ¼" | 13.69 | 1.5188 | 1.3500 | U | 4500 | 2880 | 2000 | 1469 | 1125 | 889 | 720 | 595 | 500 | 426 | 367 | 281 | 222 | |
| | | Du | | | 0.037 | 0.057 | 0.083 | 0.113 | 0.147 | 0.186 | 0.230 | 0.278 | 0.331 | 0.389 | 0.451 | 0.589 | 0.745 | | |
| | | Dc | | | 0.029 | 0.046 | 0.066 | 0.090 | 0.118 | 0.149 | 0.184 | 0.223 | 0.265 | 0.311 | 0.360 | 0.471 | 0.596 | | |
| 11HD30-6 | 2¼" x ⅜" | 20.29 | 2.2781 | 2.0250 | U | 6750 | 4320 | 3000 | 2204 | 1688 | 1333 | 1080 | 893 | 750 | 639 | 551 | 422 | 333 | |
| | | Du | | | 0.037 | 0.057 | 0.083 | 0.113 | 0.147 | 0.186 | 0.230 | 0.278 | 0.331 | 0.389 | 0.451 | 0.589 | 0.745 | | |
| | | Dc | | | 0.029 | 0.046 | 0.066 | 0.090 | 0.118 | 0.149 | 0.184 | 0.223 | 0.265 | 0.311 | 0.360 | 0.471 | 0.596 | | |
| 12HD30-4 | 2½" x ¼" | 15.53 | 2.0833 | 1.6667 | U | 5556 | 3556 | 2469 | 1814 | 1389 | 1097 | 889 | 735 | 617 | 526 | 454 | 347 | 274 | |
| | | Du | | | 0.033 | 0.052 | 0.074 | 0.101 | 0.132 | 0.168 | 0.207 | 0.250 | 0.298 | 0.350 | 0.406 | 0.530 | 0.670 | | |
| | | Dc | | | 0.026 | 0.041 | 0.060 | 0.081 | 0.106 | 0.134 | 0.166 | 0.200 | 0.238 | 0.280 | 0.324 | 0.424 | 0.536 | | |
| 12HD30-6 | 2½" x ⅜" | 22.97 | 3.1250 | 2.5000 | U | 8333 | 5333 | 3704 | 2721 | 2083 | 1646 | 1333 | 1102 | 926 | 789 | 680 | 521 | 412 | |
| | | Du | | | 0.033 | 0.052 | 0.074 | 0.101 | 0.132 | 0.168 | 0.207 | 0.250 | 0.298 | 0.350 | 0.406 | 0.530 | 0.670 | | |
| | | Dc | | | 0.026 | 0.041 | 0.060 | 0.081 | 0.106 | 0.134 | 0.166 | 0.200 | 0.238 | 0.280 | 0.324 | 0.424 | 0.536 | | |
| 13HD30-4 | 2¾" x ¼" | 16.89 | 2.7729 | 2.0167 | U | 6722 | 4302 | 2988 | 2195 | 1681 | 1328 | 1076 | 889 | 747 | 636 | 549 | 420 | 332 | |
| | | Du | | | 0.030 | 0.047 | 0.068 | 0.092 | 0.120 | 0.152 | 0.188 | 0.228 | 0.271 | 0.318 | 0.369 | 0.482 | 0.609 | | |
| | | Dc | | | 0.024 | 0.038 | 0.054 | 0.074 | 0.096 | 0.122 | 0.150 | 0.182 | 0.217 | 0.254 | 0.295 | 0.385 | 0.488 | | |
| 13HD30-6 | 2¾" x ⅜" | 25.01 | 4.1594 | 3.0250 | U | 10083 | 6453 | 4481 | 3293 | 2521 | 1992 | 1613 | 1333 | 1120 | 955 | 823 | 630 | 498 | |
| | | Du | | | 0.030 | 0.047 | 0.068 | 0.092 | 0.120 | 0.152 | 0.188 | 0.228 | 0.271 | 0.318 | 0.369 | 0.482 | 0.609 | | |
| | | Dc | | | 0.024 | 0.038 | 0.054 | 0.074 | 0.096 | 0.122 | 0.150 | 0.182 | 0.217 | 0.254 | 0.295 | 0.385 | 0.488 | | |
| 14HD30-4 | 3" x ¼" | 18.25 | 3.6000 | 2.4000 | U | 8000 | 5120 | 3556 | 2612 | 2000 | 1580 | 1280 | 1058 | 889 | 757 | 653 | 500 | 395 | |
| | | Du | | | 0.028 | 0.043 | 0.062 | 0.084 | 0.110 | 0.140 | 0.172 | 0.209 | 0.248 | 0.291 | 0.338 | 0.441 | 0.559 | | |
| | | Dc | | | 0.022 | 0.034 | 0.050 | 0.068 | 0.088 | 0.112 | 0.138 | 0.167 | 0.199 | 0.233 | 0.270 | 0.353 | 0.447 | | |
| 14HD30-6 | 3" x ⅜" | 27.05 | 5.4000 | 3.6000 | U | 12000 | 7680 | 5333 | 3918 | 3000 | 2370 | 1920 | 1587 | 1333 | 1136 | 980 | 750 | 593 | |
| | | Du | | | 0.028 | 0.043 | 0.062 | 0.084 | 0.110 | 0.140 | 0.172 | 0.209 | 0.248 | 0.291 | 0.338 | 0.441 | 0.559 | | |
| | | Dc | | | 0.022 | 0.034 | 0.050 | 0.068 | 0.088 | 0.112 | 0.138 | 0.167 | 0.199 | 0.233 | 0.270 | 0.353 | 0.447 | | |
| 16HD30-4 | 3½" x ¼" | 20.97 | 5.7167 | 3.2667 | U | 10889 | 6969 | 4840 | 3556 | 2722 | 2151 | 1742 | 1440 | 1210 | 1031 | 889 | 681 | 538 | |
| | | Du | | | 0.024 | 0.037 | 0.053 | 0.072 | 0.095 | 0.120 | 0.148 | 0.179 | 0.213 | 0.250 | 0.290 | 0.378 | 0.479 | | |
| | | Dc | | | 0.019 | 0.030 | 0.043 | 0.058 | 0.076 | 0.096 | 0.118 | 0.143 | 0.170 | 0.200 | 0.232 | 0.303 | 0.383 | | |
| 16HD30-6 | 3½" x ⅜" | 31.14 | 8.5750 | 4.9000 | U | 16333 | 10453 | 7259 | 5333 | 4083 | 3226 | 2613 | 2160 | 1815 | 1546 | 1333 | 1021 | 807 | |
| | | Du | | | 0.024 | 0.037 | 0.053 | 0.072 | 0.095 | 0.120 | 0.148 | 0.179 | 0.213 | 0.250 | 0.290 | 0.378 | 0.479 | | |
| | | Dc | | | 0.019 | 0.030 | 0.043 | 0.058 | 0.076 | 0.096 | 0.118 | 0.143 | 0.170 | 0.200 | 0.232 | 0.303 | 0.383 | | |
| 18HD30-4 | 4" x ¼" | 23.69 | 8.5333 | 4.2667 | U | 14222 | 9102 | 6321 | 4644 | 3556 | 2809 | 2276 | 1881 | 1580 | 1346 | 1161 | 889 | 702 | |
| | | Du | | | 0.021 | 0.032 | 0.047 | 0.063 | 0.083 | 0.105 | 0.129 | 0.156 | 0.186 | 0.219 | 0.253 | 0.331 | 0.419 | | |
| | | Dc | | | 0.017 | 0.026 | 0.037 | 0.051 | 0.066 | 0.084 | 0.103 | 0.125 | 0.149 | 0.175 | 0.203 | 0.265 | 0.335 | | |
| 18HD30-6 | 4" x ⅜" | 35.22 | 12.8000 | 6.4000 | U | 21333 | 13653 | 9481 | 6966 | 5333 | 4214 | 3413 | 2821 | 2370 | 2020 | 1741 | 1333 | 1053 | |
| | | Du | | | 0.021 | 0.032 | 0.047 | 0.063 | 0.083 | 0.105 | 0.129 | 0.156 | 0.186 | 0.219 | 0.253 | 0.331 | 0.419 | | |
| | | Dc | | | 0.017 | 0.026 | 0.037 | 0.051 | 0.066 | 0.084 | 0.103 | 0.125 | 0.149 | 0.175 | 0.203 | 0.265 | 0.335 | | |
| 20HD30-4 | 4½" x ¼" | 26.41 | 12.1500 | 5.4000 | U | 18000 | 11520 | 8000 | 5878 | 4500 | 3556 | 2880 | 2380 | 2000 | 1704 | 1469 | 1125 | 889 | |
| | | Du | | | 0.018 | 0.029 | 0.041 | 0.056 | 0.074 | 0.093 | 0.115 | 0.139 | 0.166 | 0.194 | 0.225 | 0.294 | 0.372 | | |
| | | Dc | | | 0.015 | 0.023 | 0.033 | 0.045 | 0.059 | 0.074 | 0.092 | 0.111 | 0.132 | 0.155 | 0.180 | 0.235 | 0.298 | | |
| 20HD30-6 | 4½" x ⅜" | 39.30 | 18.2250 | 8.1000 | U | 27000 | 17280 | 12000 | 8816 | 6750 | 5333 | 4320 | 3570 | 3000 | 2556 | 2204 | 1688 | 1333 | |
| | | Du | | | 0.018 | 0.029 | 0.041 | 0.056 | 0.074 | 0.093 | 0.115 | 0.139 | 0.166 | 0.194 | 0.225 | 0.294 | 0.372 | | |
| | | Dc | | | 0.015 | 0.023 | 0.033 | 0.045 | 0.059 | 0.074 | 0.092 | 0.111 | 0.132 | 0.155 | 0.180 | 0.235 | 0.298 | | |
| 22HD30-4 | 5" x ¼" | 29.14 | 16.6667 | 6.6667 | U | 22222 | 14222 | 9877 | 7256 | 5556 | 4390 | 3556 | 2938 | 2469 | 2104 | 1814 | 1389 | 1097 | |
| | | Du | | | 0.017 | 0.026 | 0.037 | 0.051 | 0.066 | 0.084 | 0.103 | 0.125 | 0.149 | 0.175 | 0.203 | 0.265 | 0.335 | | |
| | | Dc | | | 0.013 | 0.021 | 0.030 | 0.041 | 0.053 | 0.067 | 0.083 | 0.100 | 0.119 | 0.140 | 0.162 | 0.212 | 0.268 | | |
| 22HD30-6 | 5" x ⅜" | 43.39 | 25.0000 | 10.0000 | U | 33333 | 21333 | 14815 | 10884 | 8333 | 6584 | 5333 | 4408 | 3704 | 3156 | 2721 | 2083 | 1646 | |
| | | Du | | | 0.017 | 0.026 | 0.037 | 0.051 | 0.066 | 0.084 | 0.103 | 0.125 | 0.149 | 0.175 | 0.203 | 0.265 | 0.335 | | |
| | | Dc | | | 0.013 | 0.021 | 0.030 | 0.041 | 0.053 | 0.067 | 0.083 | 0.100 | 0.119 | 0.140 | 0.162 | 0.212 | 0.268 | | |