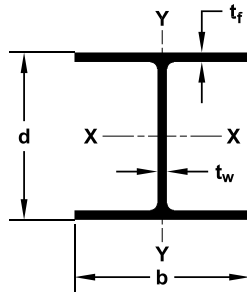


HP

Steel H-Pile



| SECTION | Weight lb/ft (kg/m) | Area in ² (cm ²) | Depth d in (mm) | Flange Width b in (mm) | THICKNESS | | | PROPERTIES | | | | | | | |
|------------------------|---------------------------|---|--------------------------|------------------------------------|---|--|---|--|--|--|-----------------|--|--|--|-----------------|
| | | | | | Flange (t _f) in (mm) | Web (t _w) in (mm) | Coating Area ft ² /ft (m ² /m) | AXIS X-X | | | | AXIS Y-Y | | | |
| | | | | | | | | I in ⁴ (cm ⁴) | S in ³ (cm ³) | Z in ³ (cm ³) | r in (cm) | I in ⁴ (cm ⁴) | S in ³ (cm ³) | Z in ³ (cm ³) | r in (cm) |
| HP 8 HP 200 | 36 54 | 10.6 68.4 | 8.02 204 | 8.16 207 | 0.445 11.3 | 0.445 11.3 | 3.92 1.19 | 119 4953 | 29.8 488 | 33.6 550.6 | 3.36 8.53 | 40.3 1677 | 9.88 249.1 | 15.2 249.1 | 1.95 4.95 |
| HP 10 HP 250 | 42 63 | 12.4 80.0 | 9.70 246 | 10.10 257 | 0.420 10.7 | 0.415 10.5 | 4.83 1.47 | 210 8741 | 43.4 711 | 48.3 791.5 | 4.13 10.5 | 71.7 2984 | 14.2 233 | 21.8 357.2 | 2.41 6.12 |
| | 57 85 | 16.7 108 | 9.99 254 | 10.20 259 | 0.565 14.4 | 0.565 14.4 | 4.91 1.50 | 294 12237 | 58.8 964 | 66.5 1089.7 | 4.18 10.6 | 101 4204 | 19.7 323 | 30.3 496.5 | 2.45 6.22 |
| HP 12 HP 310 | 53 79 | 15.5 100 | 11.80 300 | 12.00 305 | 0.435 11.0 | 0.435 11.0 | 5.82 1.77 | 393 16358 | 66.7 1093 | 74.0 1212.6 | 5.03 12.8 | 127 5286 | 21.1 346 | 32.2 527.7 | 2.86 7.26 |
| | 63 94 | 18.4 119 | 11.90 302 | 12.10 307 | 0.515 13.1 | 0.515 13.1 | 5.86 1.79 | 472 19646 | 79.1 1296 | 88.3 1447.0 | 5.06 12.9 | 153 6368 | 25.3 415 | 38.7 634.2 | 2.88 7.32 |
| | 74 110 | 21.8 141 | 12.10 307 | 12.20 310 | 0.610 15.5 | 0.605 15.4 | 5.91 1.80 | 569 23683 | 93.8 1537 | 105 1720.6 | 5.11 13.0 | 186 7742 | 30.4 498 | 46.6 763.6 | 2.92 7.42 |
| | 84 125 | 24.6 159 | 12.30 312 | 12.30 312 | 0.685 17.4 | 0.685 17.4 | 5.97 1.82 | 650 27055 | 106 1737 | 120 1966.4 | 5.14 13.1 | 213 8866 | 34.6 567 | 53.2 871.8 | 2.94 7.47 |
| | 89 132 | 25.9 167 | 12.36 314 | 12.32 313 | 0.720 18.3 | 0.720 18.3 | 6.04 1.84 | 689 28700 | 116 1830 | 126.3 2070 | 5.16 13.1 | 225 9370 | 36.5 599 | 56.2 922 | 2.94 7.48 |
| | 102 152 | 29.9 193 | 12.56 319 | 12.64 321 | 0.819 20.8 | 0.819 20.8 | 6.17 1.88 | 811 33800 | 129.3 2120 | 147.6 2420 | 5.20 13.2 | 276 11500 | 43.7 716 | 67.1 1100 | 3.04 7.71 |
| | 117 174 | 34.4 222 | 12.76 324 | 12.87 327 | 0.929 23.6 | 0.929 23.6 | 6.26 1.91 | 946 39400 | 148.2 2430 | 170.8 2800 | 5.24 13.3 | 331 13800 | 51.4 843 | 79.3 1300 | 3.11 7.89 |
| HP 14 HP 360 | 73 109 | 21.4 138 | 13.60 345 | 14.60 371 | 0.505 12.8 | 0.505 12.8 | 6.96 2.12 | 729 30343 | 107 1753 | 118 1933.7 | 5.84 14.8 | 261 10864 | 35.8 587 | 54.6 894.7 | 3.49 8.86 |
| | 89 132 | 26.1 168 | 13.80 351 | 14.70 373 | 0.615 15.6 | 0.615 15.6 | 7.02 2.14 | 904 37627 | 131 2147 | 146 2392.5 | 5.88 14.9 | 326 13569 | 44.3 726 | 67.7 1109.4 | 3.53 8.97 |
| | 102 152 | 30.1 194 | 14.00 356 | 14.80 376 | 0.705 17.9 | 0.705 17.9 | 7.06 2.15 | 1050 43704 | 150 2458 | 169 2769.4 | 5.92 15.0 | 380 15817 | 51.4 842 | 78.8 1291.3 | 3.56 9.04 |
| | 117 174 | 34.4 222 | 14.20 361 | 14.90 378 | 0.805 20.4 | 0.805 20.4 | 7.12 2.34 | 1220 50780 | 172 2819 | 194 3179.1 | 5.96 15.1 | 443 18439 | 59.5 975 | 91.4 1497.8 | 3.59 9.12 |
| HP 16 HP 410 | 88 131 | 25.8 167 | 15.30 389 | 15.70 399 | 0.540 13.7 | 0.540 13.7 | 7.52 2.29 | 1110 46201 | 145 2376 | 161 2638.3 | 6.56 16.7 | 349 14526 | 44.5 729 | 68.2 1117.6 | 3.68 9.35 |
| | 101 150 | 29.9 193 | 15.50 394 | 15.80 401 | 0.625 15.9 | 0.625 15.9 | 7.56 2.30 | 1300 54110 | 168 2753 | 187 3064.4 | 6.59 16.7 | 412 17149 | 52.2 855 | 80.1 1312.6 | 3.71 9.42 |
| | 121 180 | 35.8 231 | 15.80 401 | 15.90 404 | 0.750 19.1 | 0.750 19.1 | 7.62 2.32 | 1590 66180 | 201 3294 | 226 3703.5 | 6.66 16.9 | 504 20978 | 63.4 1039 | 97.6 1599.4 | 3.75 9.53 |
| | 141 210 | 41.7 269 | 16.00 406 | 16.00 406 | 0.875 22.2 | 0.875 22.2 | 7.69 2.34 | 1870 77835 | 234 3835 | 264 4326.2 | 6.70 17.0 | 599 24932 | 74.9 1227 | 116 1900.9 | 3.79 9.63 |
| | 162 241 | 47.7 308 | 16.30 414 | 16.10 409 | 1.000 25.4 | 1.000 25.4 | 7.75 2.36 | 2190 91154 | 269 4408 | 306 5014.4 | 6.78 17.2 | 697 29011 | 86.6 1419 | 134 2195.9 | 3.82 9.70 |
| | 183 272 | 54.1 349 | 16.50 419 | 16.30 414 | 1.130 28.7 | 1.130 28.7 | 7.81 2.38 | 2510 104473 | 304 4982 | 349 5719.1 | 6.81 17.3 | 818 34047 | 100.0 1639 | 156 2556.4 | 3.89 9.88 |
| | 204 304 | 60.2 388 | 18.30 465 | 18.10 460 | 1.130 28.7 | 1.130 28.7 | 8.73 2.66 | 3480 144847 | 380 6227 | 433 7095.6 | 7.60 19.3 | 1120 46618 | 124.0 2032 | 191 3129.9 | 4.31 11.0 |
| HP 18 HP 460 | 135 201 | 39.9 257 | 17.50 445 | 17.80 452 | 0.750 19.1 | 0.750 19.1 | 8.54 2.60 | 2200 91570 | 251 4113 | 281 4604.7 | 7.43 18.9 | 706 29386 | 79.3 1299 | 122 1999.2 | 4.21 10.7 |
| | 157 234 | 46.2 298 | 17.70 450 | 17.90 455 | 0.870 22.1 | 0.870 22.1 | 8.60 2.62 | 2570 106971 | 290 4752 | 327 5358.5 | 7.46 18.9 | 833 34672 | 93.1 1526 | 143 2343.3 | 4.25 10.8 |
| | 181 269 | 53.2 343 | 18.00 457 | 18.00 457 | 1.000 25.4 | 1.000 25.4 | 8.66 2.64 | 3020 125701 | 336 5506 | 379 6210.7 | 7.53 19.1 | 974 40541 | 108.0 1770 | 167 2736.6 | 4.28 10.9 |
| | 204 304 | 60.2 388 | 18.30 465 | 18.10 460 | 1.130 28.7 | 1.130 28.7 | 8.73 2.66 | 3480 144847 | 380 6227 | 433 7095.6 | 7.60 19.3 | 1120 46618 | 124.0 2032 | 191 3129.9 | 4.31 11.0 |

HP

Steel H-Pile

Available Steel Grades

| AMERICAN | | | CANADIAN | | | EUROPEAN** | | |
|---------------|----------------|-----|-------------|----------------|-----|------------|----------------|-----|
| ASTM | YIELD STRENGTH | | CSA G40.21 | YIELD STRENGTH | | EN 10034 | YIELD STRENGTH | |
| | ksi | MPa | | ksi | MPa | | ksi | MPa |
| A36 | 36 | 250 | Grade 300 W | 44 | 300 | HISTAR 355 | 51 | 355 |
| A572 Grade 50 | 50 | 345 | Grade 350 W | 50 | 350 | HISTAR 420 | 61 | 420 |
| A572 Grade 60 | 60 | 415 | | | | HISTAR 460 | 67 | 460 |
| A588 | 50 | 345 | | | | | | |
| A690 | 50 | 345 | | | | | | |
| A709 | 50 | 345 | | | | | | |

Highlighted fields represent the most commonly used and readily available steel grades. ** HISTAR only available in some sizes.

Splicer and H-Pile Point



Splicer



H-Pile Point

Delivery Conditions & Tolerances

| | ASTM A6 | |
|---------------------------------|--|-----------------|
| Mass | ± 2.5% | |
| Length [§] | | |
| 30 Feet and Under | ± 0.375 inches | |
| Over 30 Feet | + (0.375 inches + (length - 30)/80) | - 0.375 inches |
| Depth | ± 0.125 inches | - 0.1875 inches |
| Flange Width | + 0.25 inches | |
| Flanges out of Square | | |
| HP 8 x 42 - HP 12 x 84 | ≤ 0.25 inches | |
| HP 14 x 73 - HP 14 x 117 | ≤ 0.3125 inches | |
| Web off Center | ≤ 0.1875 inches | |
| Greatest Depth over Theoretical | ≤ 0.25 inches | |
| Camber and Sweep*** | | |
| 45 Feet and Under | (0.125")(Length in feet/10) but not over 0.375" | |
| Over 45 Feet | (0.375") + (0.125" (Length in feet - 45)/10) | |

[§]For HP ordered as bearing piles, length tolerances are +5 in. and -0 in.

***For the HP 10 x 42, 12 x 53, 12 x 63, 14 x 73, and 14 x 89 ordered as columns, tolerances are subject to negotiation with manufacturer.

Maximum Rolled Lengths[†]

| | | |
|----|------|--------|
| HP | 130' | 39.6 m |
|----|------|--------|

[†] Longer lengths may be possible upon request.