



ASTM A1085/A1085M Square HSS



Dimensions and Properties

HSS22-HSS12

| Shape | Design Wall Thickness, <i>t</i> | Nominal Wt. | Area, <i>A</i> | <i>b/t</i> | <i>h/t</i> | <i>I</i> | <i>S</i> | <i>r</i> | <i>Z</i> | Workable Flat | Torsion | | Surface Area | |
|------------|---------------------------------|-------------|----------------|------------|------------|----------|----------|----------|----------|---------------|------------------|------------------|--------------|------|
| | | | | | | | | | | | <i>J</i> | <i>C</i> | | |
| | | | | | | | | | | | in. ⁴ | in. ³ | | |
| HSS22×22×1 | 1.000 | 277.07 | 81.4 | 19.0 | 19.0 | 5890 | 535 | 8.50 | 634 | 17½ | 9470 | 878 | 7.05 | |
| | ×7/8 | 0.875 | 244.88 | 72.0 | 22.1 | 22.1 | 5280 | 480 | 8.56 | 565 | 18½ | 8420 | 778 | 7.08 |
| | ×¾ | 0.750 | 212.00 | 62.3 | 26.3 | 26.3 | 4630 | 421 | 8.62 | 492 | 18¾ | 7330 | 676 | 7.12 |
| | ×5/8 | 0.625 | 178.41 | 52.4 | 32.2 | 32.2 | 3950 | 359 | 8.68 | 418 | 19¾ | 6200 | 570 | 7.15 |
| | ×½ | 0.500 | 144.13 | 42.4 | 41.0 | 41.0 | 3240 | 294 | 8.74 | 340 | 19¾ | 5030 | 462 | 7.19 |
| HSS20×20×1 | 1.000 | 249.85 | 73.4 | 17.0 | 17.0 | 4340 | 434 | 7.69 | 517 | 15½ | 7020 | 718 | 6.38 | |
| | ×7/8 | 0.875 | 221.06 | 65.0 | 19.9 | 19.9 | 3900 | 390 | 7.75 | 461 | 16½ | 6260 | 638 | 6.42 |
| | ×¾ | 0.750 | 191.58 | 56.3 | 23.7 | 23.7 | 3430 | 343 | 7.81 | 403 | 16¾ | 5460 | 554 | 6.45 |
| | ×5/8 | 0.625 | 161.40 | 47.4 | 29.0 | 29.0 | 2940 | 294 | 7.87 | 342 | 17¾ | 4620 | 468 | 6.49 |
| | ×½ | 0.500 | 130.52 | 38.4 | 37.0 | 37.0 | 2410 | 241 | 7.93 | 279 | 17¾ | 3760 | 380 | 6.52 |
| | ×3/8 | 0.375 | 98.94 | 29.1 | 50.3 | 50.3 | 1850 | 185 | 7.99 | 213 | 18¾ | 2870 | 289 | 6.56 |
| | ×9/16 | 0.313 | 82.88 | 24.4 | 60.9 | 60.9 | 1570 | 157 | 8.02 | 179 | 18¾ | 2410 | 243 | 6.58 |
| HSS18×18×1 | 1.000 | 222.63 | 65.4 | 15.0 | 15.0 | 3090 | 343 | 6.87 | 411 | 13½ | 5040 | 574 | 5.71 | |
| | ×7/8 | 0.875 | 197.24 | 58.0 | 17.6 | 17.6 | 2780 | 309 | 6.93 | 368 | 14½ | 4500 | 511 | 5.75 |
| | ×¾ | 0.750 | 171.16 | 50.3 | 21.0 | 21.0 | 2460 | 273 | 6.99 | 322 | 14¾ | 3930 | 445 | 5.79 |
| | ×5/8 | 0.625 | 144.39 | 42.4 | 25.8 | 25.8 | 2110 | 234 | 7.05 | 274 | 15¾ | 3340 | 376 | 5.82 |
| | ×½ | 0.500 | 116.91 | 34.4 | 33.0 | 33.0 | 1740 | 193 | 7.11 | 224 | 15¾ | 2720 | 306 | 5.86 |
| | ×3/8 | 0.375 | 88.73 | 26.1 | 45.0 | 45.0 | 1340 | 149 | 7.17 | 172 | 16¾ | 2080 | 233 | 5.89 |
| | ×5/16 | 0.313 | 74.38 | 21.9 | 54.5 | 54.5 | 1130 | 126 | 7.20 | 145 | 16¾ | 1750 | 196 | 5.91 |
| | ×¼ | 0.250 | 59.85 | 17.6 | 69.0 | 69.0 | 919 | 102 | 7.23 | 117 | 16¾ | 1410 | 157 | 5.93 |
| HSS16×16×1 | 1.000 | 195.40 | 57.4 | 13.0 | 13.0 | 2100 | 263 | 6.05 | 318 | 11½ | 3470 | 446 | 5.05 | |
| | ×7/8 | 0.875 | 173.43 | 51.0 | 15.3 | 15.3 | 1900 | 238 | 6.11 | 285 | 12½ | 3100 | 398 | 5.08 |
| | ×¾ | 0.750 | 150.75 | 44.3 | 18.3 | 18.3 | 1690 | 211 | 6.17 | 250 | 12¾ | 2720 | 347 | 5.12 |
| | ×5/8 | 0.625 | 127.37 | 37.4 | 22.6 | 22.6 | 1450 | 182 | 6.23 | 214 | 13¾ | 2320 | 295 | 5.15 |
| | ×½ | 0.500 | 103.30 | 30.4 | 29.0 | 29.0 | 1200 | 150 | 6.29 | 175 | 13¾ | 1890 | 240 | 5.19 |
| | ×3/8 | 0.375 | 78.52 | 23.1 | 39.7 | 39.7 | 931 | 116 | 6.35 | 134 | 14¾ | 1450 | 183 | 5.23 |
| | ×5/16 | 0.313 | 65.87 | 19.4 | 48.1 | 48.1 | 790 | 98.7 | 6.38 | 114 | 14¾ | 1220 | 154 | 5.24 |
| | ×¼ | 0.250 | 53.05 | 15.6 | 61.0 | 61.0 | 641 | 80.1 | 6.41 | 91.8 | 14¾ | 986 | 124 | 5.26 |
| HSS14×14×1 | 1.000 | 168.18 | 49.4 | 11.0 | 11.0 | 1350 | 194 | 5.24 | 236 | 9½ | 2260 | 334 | 4.38 | |
| | ×7/8 | 0.875 | 149.61 | 44.0 | 13.0 | 13.0 | 1230 | 176 | 5.30 | 213 | 10½ | 2030 | 299 | 4.42 |
| | ×¾ | 0.750 | 130.33 | 38.3 | 15.7 | 15.7 | 1100 | 157 | 5.36 | 188 | 10¾ | 1790 | 262 | 4.45 |
| | ×5/8 | 0.625 | 110.36 | 32.4 | 19.4 | 19.4 | 952 | 136 | 5.42 | 161 | 11¾ | 1530 | 223 | 4.49 |
| | ×½ | 0.500 | 89.68 | 26.4 | 25.0 | 25.0 | 791 | 113 | 5.48 | 132 | 11¾ | 1250 | 182 | 4.52 |
| | ×3/8 | 0.375 | 68.31 | 20.1 | 34.3 | 34.3 | 615 | 87.9 | 5.54 | 102 | 12¾ | 963 | 139 | 4.56 |
| | ×5/16 | 0.313 | 57.36 | 16.9 | 41.7 | 41.7 | 523 | 74.7 | 5.57 | 86.2 | 12¾ | 813 | 117 | 4.58 |
| | ×¼ | 0.250 | 46.24 | 13.6 | 53.0 | 53.0 | 426 | 60.8 | 5.60 | 69.8 | 12¾ | 657 | 94.5 | 4.60 |
| HSS12×12×1 | 1.000 | 140.96 | 41.4 | 9.00 | 9.00 | 809 | 135 | 4.42 | 167 | 7½ | 1370 | 238 | 3.71 | |
| | ×7/8 | 0.875 | 125.79 | 37.0 | 10.7 | 10.7 | 742 | 124 | 4.48 | 151 | 8½ | 1240 | 214 | 3.75 |
| | ×¾ | 0.750 | 109.91 | 32.3 | 13.0 | 13.0 | 666 | 111 | 4.54 | 134 | 8¾ | 1100 | 188 | 3.79 |
| | ×5/8 | 0.625 | 93.34 | 27.4 | 16.2 | 16.2 | 580 | 96.7 | 4.60 | 116 | 9¾ | 943 | 161 | 3.82 |
| | ×½ | 0.500 | 76.07 | 22.4 | 21.0 | 21.0 | 486 | 80.9 | 4.66 | 95.4 | 9¾ | 777 | 132 | 3.86 |
| | ×3/8 | 0.375 | 58.10 | 17.1 | 29.0 | 29.0 | 380 | 63.4 | 4.72 | 73.9 | 10¾ | 599 | 101 | 3.89 |
| | ×5/16 | 0.313 | 48.86 | 14.4 | 35.3 | 35.3 | 324 | 54.1 | 4.75 | 62.6 | 10¾ | 507 | 85.4 | 3.91 |
| | ×¼ | 0.250 | 39.43 | 11.6 | 45.0 | 45.0 | 265 | 44.1 | 4.78 | 50.8 | 10¾ | 410 | 69.0 | 3.93 |
| ×3/16 | 0.188 | 29.84 | 8.79 | 60.8 | 60.8 | 203 | 33.9 | 4.81 | 38.8 | 11¾ | 313 | 52.4 | 3.95 | |

Note: Confirm ASTM A1085/A1085M material availability before specifying.



ASTM A1085/A1085M Square HSS

Dimensions and Properties



HSS10–HSS4½

| Shape | Design Wall Thickness, <i>t</i> | Nominal Wt. | Area, <i>A</i> | <i>b/t</i> | <i>h/t</i> | <i>I</i> | <i>S</i> | <i>r</i> | <i>Z</i> | Workable Flat | Torsion | | Surface Area | |
|------------|---------------------------------|-------------|----------------|------------|------------|----------|----------|----------|----------|---------------|----------|----------|--------------|------------------|
| | | | | | | | | | | | <i>J</i> | <i>C</i> | | |
| | | | | | | | | | | | in. | lb/ft | | in. ² |
| HSS10×10×¾ | 0.750 | 89.50 | 26.3 | 10.3 | 10.3 | 364 | 72.9 | 3.72 | 89.4 | 6⅝ | 610 | 127 | 3.12 | |
| | ×⅝ | 0.625 | 76.33 | 22.4 | 13.0 | 13.0 | 321 | 64.2 | 3.78 | 77.6 | 7⅜ | 529 | 109 | 3.15 |
| | ×½ | 0.500 | 62.46 | 18.4 | 17.0 | 17.0 | 271 | 54.2 | 3.84 | 64.6 | 7¾ | 439 | 89.8 | 3.19 |
| | ×⅜ | 0.375 | 47.90 | 14.1 | 23.7 | 23.7 | 214 | 42.9 | 3.90 | 50.4 | 8⅝ | 341 | 69.3 | 3.23 |
| | ×⅝ | 0.313 | 40.35 | 11.9 | 28.9 | 28.9 | 184 | 36.7 | 3.93 | 42.8 | 8⅝ | 289 | 58.6 | 3.24 |
| | ×¼ | 0.250 | 32.63 | 9.59 | 37.0 | 37.0 | 151 | 30.1 | 3.96 | 34.9 | 8⅝ | 235 | 47.5 | 3.26 |
| | ×⅜ | 0.188 | 24.73 | 7.29 | 50.2 | 50.2 | 116 | 23.2 | 3.99 | 26.7 | 9⅝ | 180 | 36.2 | 3.28 |
| HSS9×9×⅝ | 0.625 | 67.82 | 19.9 | 11.4 | 11.4 | 227 | 50.4 | 3.37 | 61.5 | 6⅜ | 377 | 86.7 | 2.82 | |
| | ×½ | 0.500 | 55.66 | 16.4 | 15.0 | 15.0 | 193 | 42.9 | 3.43 | 51.4 | 6¾ | 315 | 71.8 | 2.86 |
| | ×⅜ | 0.375 | 42.79 | 12.6 | 21.0 | 21.0 | 154 | 34.1 | 3.50 | 40.3 | 7⅝ | 246 | 55.6 | 2.89 |
| | ×⅝ | 0.313 | 36.10 | 10.6 | 25.8 | 25.8 | 132 | 29.3 | 3.52 | 34.3 | 7⅝ | 209 | 47.1 | 2.91 |
| | ×¼ | 0.250 | 29.23 | 8.59 | 33.0 | 33.0 | 109 | 24.1 | 3.56 | 28.0 | 7⅝ | 170 | 38.2 | 2.93 |
| | ×⅜ | 0.188 | 22.18 | 6.54 | 44.9 | 44.9 | 84.0 | 18.7 | 3.58 | 21.5 | 8⅜ | 130 | 29.2 | 2.95 |
| HSS8×8×⅝ | 0.625 | 59.32 | 17.4 | 9.80 | 9.80 | 153 | 38.3 | 2.97 | 47.2 | 5⅝ | 258 | 67.0 | 2.49 | |
| | ×½ | 0.500 | 48.85 | 14.4 | 13.0 | 13.0 | 131 | 32.9 | 3.03 | 39.7 | 5¾ | 217 | 55.8 | 2.52 |
| | ×⅜ | 0.375 | 37.69 | 11.1 | 18.3 | 18.3 | 106 | 26.4 | 3.09 | 31.3 | 6⅝ | 170 | 43.4 | 2.56 |
| | ×⅝ | 0.313 | 31.84 | 9.37 | 22.6 | 22.6 | 91.0 | 22.8 | 3.12 | 26.8 | 6⅝ | 145 | 36.9 | 2.58 |
| | ×¼ | 0.250 | 25.82 | 7.59 | 29.0 | 29.0 | 75.2 | 18.8 | 3.15 | 21.9 | 6⅝ | 118 | 30.0 | 2.60 |
| | ×⅜ | 0.188 | 19.63 | 5.78 | 39.6 | 39.6 | 58.4 | 14.6 | 3.18 | 16.9 | 7⅝ | 90.8 | 22.9 | 2.61 |
| HSS7×7×⅝ | 0.625 | 50.81 | 14.9 | 8.20 | 8.20 | 97.6 | 27.9 | 2.56 | 34.8 | 4⅝ | 166 | 49.9 | 2.15 | |
| | ×½ | 0.500 | 42.05 | 12.4 | 11.0 | 84.7 | 24.2 | 2.62 | 29.6 | 4¾ | 141 | 41.8 | 2.19 | |
| | ×⅜ | 0.375 | 32.58 | 9.58 | 15.7 | 15.7 | 68.7 | 19.6 | 2.68 | 23.5 | 5⅝ | 112 | 32.7 | 2.23 |
| | ×⅝ | 0.313 | 27.59 | 8.12 | 19.4 | 19.4 | 59.6 | 17.0 | 2.71 | 20.1 | 5⅝ | 95.7 | 27.9 | 2.24 |
| | ×¼ | 0.250 | 22.42 | 6.59 | 25.0 | 25.0 | 49.4 | 14.1 | 2.74 | 16.5 | 5⅝ | 78.3 | 22.7 | 2.26 |
| | ×⅜ | 0.188 | 17.08 | 5.03 | 34.2 | 34.2 | 38.6 | 11.0 | 2.77 | 12.8 | 6⅜ | 60.3 | 17.4 | 2.28 |
| HSS6×6×⅝ | 0.625 | 42.30 | 12.4 | 6.60 | 6.60 | 57.4 | 19.1 | 2.15 | 24.3 | 3⅝ | 99.5 | 35.2 | 1.82 | |
| | ×½ | 0.500 | 35.24 | 10.4 | 9.00 | 9.00 | 50.5 | 16.8 | 2.21 | 20.9 | 3¾ | 85.6 | 29.8 | 1.86 |
| | ×⅜ | 0.375 | 27.48 | 8.08 | 13.0 | 13.0 | 41.6 | 13.9 | 2.27 | 16.8 | 4⅝ | 68.5 | 23.5 | 1.89 |
| | ×⅝ | 0.313 | 23.34 | 6.87 | 16.2 | 16.2 | 36.3 | 12.1 | 2.30 | 14.5 | 4⅝ | 59.0 | 20.1 | 1.91 |
| | ×¼ | 0.250 | 19.02 | 5.59 | 21.0 | 21.0 | 30.3 | 10.1 | 2.33 | 11.9 | 4⅝ | 48.5 | 16.5 | 1.93 |
| | ×⅜ | 0.188 | 14.53 | 4.28 | 28.9 | 28.9 | 23.8 | 7.94 | 2.36 | 9.26 | 5⅝ | 37.5 | 12.7 | 1.95 |
| HSS5½×5½×⅜ | 0.375 | 24.93 | 7.33 | 11.7 | 11.7 | 31.3 | 11.4 | 2.07 | 13.8 | 3⅜ | 51.9 | 19.5 | 1.73 | |
| | ×⅝ | 0.313 | 21.21 | 6.24 | 14.6 | 14.6 | 27.4 | 9.97 | 2.10 | 12.0 | 4⅝ | 44.8 | 16.7 | 1.74 |
| | ×¼ | 0.250 | 17.32 | 5.09 | 19.0 | 19.0 | 23.0 | 8.36 | 2.13 | 9.91 | 4¾ | 37.0 | 13.7 | 1.76 |
| | ×⅜ | 0.188 | 13.25 | 3.90 | 26.3 | 26.3 | 18.1 | 6.60 | 2.16 | 7.71 | 4⅝ | 28.7 | 10.6 | 1.78 |
| HSS5×5×½ | 0.500 | 28.43 | 8.36 | 7.00 | 7.00 | 27.1 | 10.8 | 1.80 | 13.7 | 2¾ | 46.8 | 19.8 | 1.52 | |
| | ×⅜ | 0.375 | 22.37 | 6.58 | 10.3 | 10.3 | 22.8 | 9.11 | 1.86 | 11.2 | 3⅝ | 38.2 | 15.8 | 1.56 |
| | ×⅝ | 0.313 | 19.08 | 5.62 | 13.0 | 13.0 | 20.1 | 8.03 | 1.89 | 9.71 | 3⅝ | 33.1 | 13.6 | 1.58 |
| | ×¼ | 0.250 | 15.62 | 4.59 | 17.0 | 17.0 | 16.9 | 6.78 | 1.92 | 8.07 | 3⅝ | 27.4 | 11.2 | 1.60 |
| | ×⅜ | 0.188 | 11.97 | 3.53 | 23.6 | 23.6 | 13.4 | 5.37 | 1.95 | 6.31 | 4⅝ | 21.4 | 8.68 | 1.61 |
| HSS4½×4½×½ | 0.500 | 25.03 | 7.36 | 6.00 | 6.00 | 18.7 | 8.33 | 1.60 | 10.7 | 2¼ | 32.7 | 15.5 | 1.36 | |
| | ×⅜ | 0.375 | 19.82 | 5.83 | 9.00 | 9.00 | 16.0 | 7.11 | 1.66 | 8.81 | 2⅜ | 27.1 | 12.6 | 1.39 |
| | ×⅝ | 0.313 | 16.96 | 4.99 | 11.4 | 11.4 | 14.2 | 6.31 | 1.69 | 7.69 | 3⅝ | 23.6 | 10.9 | 1.41 |
| | ×¼ | 0.250 | 13.91 | 4.09 | 15.0 | 15.0 | 12.1 | 5.36 | 1.72 | 6.43 | 3⅝ | 19.7 | 8.97 | 1.43 |
| | ×⅜ | 0.188 | 10.70 | 3.15 | 20.9 | 20.9 | 9.62 | 4.28 | 1.75 | 5.05 | 3⅝ | 15.4 | 6.97 | 1.45 |

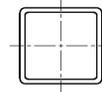
Note: Confirm ASTM A1085/A1085M material availability before specifying.



HSS4–HSS1½

ASTM A1085/A1085M Square HSS

Dimensions and Properties



| Shape | Design Wall Thickness, <i>t</i> | Nominal Wt. | Area, <i>A</i> | <i>b/t</i> | <i>h/t</i> | <i>I</i> | <i>S</i> | <i>r</i> | <i>Z</i> | Workable Flat | Torsion | | Surface Area |
|------------|---------------------------------|-------------|----------------|------------|------------|----------|----------|----------|----------|---------------|----------|----------|--------------|
| | | | | | | | | | | | <i>J</i> | <i>C</i> | |
| | | | | | | | | | | | in. | lb/ft | |
| HSS4×4×½ | 0.500 | 21.63 | 6.36 | 5.00 | 5.00 | 12.3 | 6.15 | 1.39 | 8.02 | – | 21.8 | 11.8 | 1.19 |
| ×¾ | 0.375 | 17.27 | 5.08 | 7.67 | 7.67 | 10.7 | 5.35 | 1.45 | 6.72 | 2½/16 | 18.4 | 9.65 | 1.23 |
| ×⅝ | 0.313 | 14.83 | 4.36 | 9.78 | 9.78 | 9.59 | 4.80 | 1.48 | 5.91 | 2½/16 | 16.1 | 8.39 | 1.24 |
| ×¼ | 0.250 | 12.21 | 3.59 | 13.0 | 13.0 | 8.22 | 4.11 | 1.51 | 4.97 | 2½/16 | 13.5 | 6.97 | 1.26 |
| ×⅜ | 0.188 | 9.42 | 2.78 | 18.3 | 18.3 | 6.61 | 3.30 | 1.54 | 3.92 | 3¾/16 | 10.7 | 5.44 | 1.28 |
| HSS3½×3½×¾ | 0.375 | 14.72 | 4.33 | 6.33 | 6.33 | 6.74 | 3.85 | 1.25 | 4.91 | – | 11.7 | 7.12 | 1.06 |
| ×⅝ | 0.313 | 12.70 | 3.74 | 8.18 | 8.18 | 6.11 | 3.49 | 1.28 | 4.36 | 2½/16 | 10.4 | 6.24 | 1.08 |
| ×¼ | 0.250 | 10.51 | 3.09 | 11.0 | 11.0 | 5.29 | 3.02 | 1.31 | 3.69 | 2¾/16 | 8.82 | 5.22 | 1.10 |
| ×⅜ | 0.188 | 8.15 | 2.40 | 15.6 | 15.6 | 4.30 | 2.46 | 1.34 | 2.94 | 2¼/16 | 7.00 | 4.10 | 1.11 |
| HSS3×3×¾ | 0.375 | 12.17 | 3.58 | 5.00 | 5.00 | 3.89 | 2.60 | 1.04 | 3.38 | – | 6.89 | 4.96 | 0.893 |
| ×⅝ | 0.313 | 10.58 | 3.11 | 6.58 | 6.58 | 3.59 | 2.39 | 1.07 | 3.04 | – | 6.22 | 4.40 | 0.910 |
| ×¼ | 0.250 | 8.81 | 2.59 | 9.00 | 9.00 | 3.16 | 2.11 | 1.10 | 2.61 | – | 5.35 | 3.72 | 0.928 |
| ×⅜ | 0.188 | 6.87 | 2.02 | 13.0 | 13.0 | 2.61 | 1.74 | 1.13 | 2.10 | 2¾/16 | 4.29 | 2.95 | 0.946 |
| HSS2½×2½×⅝ | 0.313 | 8.45 | 2.49 | 4.99 | 4.99 | 1.88 | 1.50 | 0.869 | 1.96 | – | 3.33 | 2.88 | 0.744 |
| ×¼ | 0.250 | 7.11 | 2.09 | 7.00 | 7.00 | 1.69 | 1.35 | 0.900 | 1.71 | – | 2.92 | 2.47 | 0.762 |
| ×⅜ | 0.188 | 5.59 | 1.65 | 10.3 | 10.3 | 1.43 | 1.14 | 0.930 | 1.40 | – | 2.39 | 1.98 | 0.780 |
| HSS2¼×2¼×¼ | 0.250 | 6.26 | 1.84 | 6.00 | 6.00 | 1.17 | 1.04 | 0.798 | 1.33 | – | 2.05 | 1.94 | 0.678 |
| ×⅜ | 0.188 | 4.96 | 1.46 | 8.97 | 8.97 | 1.00 | 0.890 | 0.828 | 1.10 | – | 1.70 | 1.57 | 0.696 |
| HSS2×2×¼ | 0.250 | 5.41 | 1.59 | 5.00 | 5.00 | 0.769 | 0.769 | 0.696 | 1.00 | – | 1.36 | 1.47 | 0.595 |
| ×⅜ | 0.188 | 4.32 | 1.27 | 7.64 | 7.64 | 0.670 | 0.670 | 0.726 | 0.841 | – | 1.15 | 1.21 | 0.613 |
| HSS1½×1½×¼ | 0.250 | 3.71 | 1.09 | 3.00 | 3.00 | 0.263 | 0.350 | 0.491 | 0.481 | – | 0.477 | 0.721 | 0.428 |
| ×⅜ | 0.188 | 3.04 | 0.896 | 4.98 | 4.98 | 0.244 | 0.325 | 0.522 | 0.424 | – | 0.431 | 0.622 | 0.446 |

Note: Confirm ASTM A1085/A1085M material availability before specifying.
 – Indicates flat depth or width is too small to establish a workable flat.