

Cold Formed Circular Hollow Section

BS EN 10219

| Designation | | Weight | Cross Sectional Area | Second Moment of Area | Radius of Gyration | Elastic Modulus | Plastic Modulus | Torsional inertia constant | Torsional modulus constant | Superficial Area per metre length | Nominal Length per tonne | Ratio for Local Buckling |
|-------------|-----------|--------|----------------------|-----------------------|--------------------|-----------------|-----------------|----------------------------|----------------------------|-----------------------------------|--------------------------|--------------------------|
| Size | Thickness | | | | | | | | | | | |
| OD | T | M | A | I | i | W _{el} | W _{pl} | L _t | C _t | As | L | B/T |
| mm | mm | Kg/m | cm ² | cm ⁴ | cm | cm ³ | cm ³ | cm ⁴ | cm ³ | m ² /m | m | |
| 21.3 | 2.0 | 0.952 | 1.21 | 0.57 | 0.69 | 0.54 | 0.75 | 1.14 | 1.07 | 0.07 | 1050.49 | 10.65 |
| 21.3 | 2.5 | 1.159 | 1.48 | 0.66 | 0.67 | 0.62 | 0.89 | 1.33 | 1.25 | 0.07 | 862.75 | 8.52 |
| 21.3 | 3.0 | 1.354 | 1.72 | 0.74 | 0.66 | 0.70 | 1.01 | 1.48 | 1.39 | 0.07 | 738.60 | 7.10 |
| 26.9 | 2.0 | 1.228 | 1.56 | 1.22 | 0.88 | 0.91 | 1.24 | 2.44 | 1.81 | 0.08 | 814.24 | 13.45 |
| 26.9 | 2.5 | 1.504 | 1.92 | 1.44 | 0.87 | 1.07 | 1.49 | 2.88 | 2.14 | 0.08 | 664.74 | 10.76 |
| 26.9 | 3.0 | 1.768 | 2.25 | 1.63 | 0.85 | 1.21 | 1.72 | 3.27 | 2.43 | 0.08 | 565.54 | 8.97 |
| 33.7 | 2.0 | 1.564 | 1.99 | 2.51 | 1.12 | 1.49 | 2.01 | 5.02 | 2.98 | 0.11 | 639.57 | 16.85 |
| 33.7 | 2.5 | 1.924 | 2.45 | 3.00 | 1.11 | 1.78 | 2.44 | 6.00 | 3.56 | 0.11 | 519.86 | 13.48 |
| 33.7 | 3.0 | 2.271 | 2.89 | 3.44 | 1.09 | 2.04 | 2.84 | 6.88 | 4.08 | 0.11 | 440.27 | 11.23 |
| 42.4 | 2.0 | 1.993 | 2.54 | 5.19 | 1.43 | 2.45 | 3.27 | 10.38 | 4.90 | 0.13 | 501.84 | 21.20 |
| 42.4 | 2.5 | 2.460 | 3.13 | 6.26 | 1.41 | 2.95 | 3.99 | 12.52 | 5.91 | 0.13 | 406.51 | 16.96 |
| 42.4 | 3.0 | 2.915 | 3.71 | 7.25 | 1.40 | 3.42 | 4.67 | 14.49 | 6.84 | 0.13 | 343.05 | 14.13 |
| 42.4 | 4.0 | 3.788 | 4.83 | 8.99 | 1.36 | 4.24 | 5.92 | 17.98 | 8.48 | 0.13 | 263.99 | 10.60 |
| 48.3 | 2.0 | 2.284 | 2.91 | 7.81 | 1.64 | 3.23 | 4.29 | 15.62 | 6.47 | 0.15 | 437.89 | 24.15 |
| 48.3 | 2.5 | 2.824 | 3.60 | 9.46 | 1.62 | 3.92 | 5.25 | 18.92 | 7.83 | 0.15 | 354.14 | 19.32 |
| 48.3 | 3.2 | 3.559 | 4.53 | 11.59 | 1.60 | 4.80 | 6.52 | 23.17 | 9.59 | 0.15 | 280.97 | 15.09 |
| 48.3 | 4.0 | 4.370 | 5.57 | 13.77 | 1.57 | 5.70 | 7.87 | 27.54 | 11.40 | 0.15 | 228.83 | 12.08 |
| 48.3 | 5.0 | 5.339 | 6.80 | 16.15 | 1.54 | 6.69 | 9.42 | 32.31 | 13.38 | 0.15 | 187.29 | 9.66 |
| 60.3 | 2.0 | 2.876 | 3.66 | 15.58 | 2.06 | 5.17 | 6.80 | 31.16 | 10.34 | 0.19 | 347.76 | 30.15 |
| 60.3 | 2.5 | 3.564 | 4.54 | 18.99 | 2.05 | 6.30 | 8.36 | 37.99 | 12.60 | 0.19 | 280.62 | 24.12 |
| 60.3 | 3.0 | 4.239 | 5.40 | 22.22 | 2.03 | 7.37 | 9.86 | 44.45 | 14.74 | 0.19 | 235.89 | 20.10 |
| 60.3 | 4.0 | 5.554 | 7.07 | 28.17 | 2.00 | 9.34 | 12.70 | 56.35 | 18.69 | 0.19 | 180.06 | 15.08 |
| 60.3 | 5.0 | 6.819 | 8.69 | 33.48 | 1.96 | 11.10 | 15.33 | 66.95 | 22.21 | 0.19 | 146.65 | 12.06 |
| 76.1 | 2.0 | 3.655 | 4.66 | 31.98 | 2.62 | 8.40 | 10.98 | 63.96 | 16.81 | 0.24 | 273.61 | 38.05 |
| 76.1 | 2.5 | 4.538 | 5.78 | 39.19 | 2.60 | 10.30 | 13.55 | 78.37 | 20.60 | 0.24 | 220.38 | 30.44 |
| 76.1 | 3.0 | 5.408 | 6.89 | 46.10 | 2.59 | 12.11 | 16.04 | 92.19 | 24.23 | 0.24 | 184.90 | 25.37 |
| 76.1 | 4.0 | 7.112 | 9.06 | 59.06 | 2.55 | 15.52 | 20.81 | 118.11 | 31.04 | 0.24 | 140.60 | 19.03 |
| 76.1 | 5.0 | 8.767 | 11.17 | 70.92 | 2.52 | 18.64 | 25.32 | 141.84 | 37.28 | 0.24 | 114.06 | 15.22 |
| 76.1 | 6.0 | 10.373 | 13.21 | 81.76 | 2.49 | 21.49 | 29.56 | 163.52 | 42.97 | 0.24 | 96.41 | 12.68 |
| 76.1 | 6.3 | 10.845 | 13.81 | 84.82 | 2.48 | 22.29 | 30.78 | 169.64 | 44.58 | 0.24 | 92.21 | 12.08 |
| 88.9 | 2.0 | 4.286 | 5.46 | 51.57 | 3.07 | 11.60 | 15.11 | 103.14 | 23.20 | 0.28 | 233.31 | 44.45 |
| 88.9 | 2.5 | 5.327 | 6.79 | 63.37 | 3.06 | 14.26 | 18.67 | 126.75 | 28.51 | 0.28 | 187.73 | 35.56 |
| 88.9 | 3.0 | 6.355 | 8.10 | 74.76 | 3.04 | 16.82 | 22.15 | 149.53 | 33.64 | 0.28 | 157.35 | 29.63 |
| 88.9 | 4.0 | 8.375 | 10.67 | 96.34 | 3.00 | 21.67 | 28.85 | 192.68 | 43.35 | 0.28 | 119.40 | 22.23 |
| 88.9 | 5.0 | 10.346 | 13.18 | 116.37 | 2.97 | 26.18 | 35.24 | 232.75 | 52.36 | 0.28 | 96.66 | 17.78 |
| 88.9 | 6.0 | 12.267 | 15.63 | 134.94 | 2.94 | 30.36 | 41.31 | 269.88 | 60.72 | 0.28 | 81.52 | 14.82 |
| 88.9 | 6.3 | 12.833 | 16.35 | 140.24 | 2.93 | 31.55 | 43.07 | 280.47 | 63.10 | 0.28 | 77.92 | 14.11 |
| 101.6 | 2.0 | 4.913 | 6.26 | 77.63 | 3.52 | 15.28 | 19.84 | 155.26 | 30.56 | 0.32 | 203.56 | 50.80 |
| 101.6 | 2.5 | 6.110 | 7.78 | 95.61 | 3.50 | 18.82 | 24.56 | 191.22 | 37.64 | 0.32 | 163.67 | 40.64 |
| 101.6 | 3.0 | 7.295 | 9.29 | 113.04 | 3.49 | 22.25 | 29.17 | 226.07 | 44.50 | 0.32 | 137.08 | 33.87 |
| 101.6 | 4.0 | 9.628 | 12.26 | 146.28 | 3.45 | 28.80 | 38.12 | 292.57 | 57.59 | 0.32 | 103.87 | 25.40 |
| 101.6 | 5.0 | 11.912 | 15.17 | 177.47 | 3.42 | 34.93 | 46.70 | 354.94 | 69.87 | 0.32 | 83.95 | 20.32 |
| 101.6 | 6.0 | 14.146 | 18.02 | 206.68 | 3.39 | 40.68 | 54.91 | 413.35 | 81.37 | 0.32 | 70.69 | 16.93 |
| 101.6 | 6.3 | 14.807 | 18.86 | 215.07 | 3.38 | 42.34 | 57.30 | 430.13 | 84.67 | 0.32 | 67.54 | 16.13 |
| 114.3 | 2.5 | 6.893 | 8.78 | 137.26 | 3.95 | 24.02 | 31.25 | 274.52 | 48.03 | 0.36 | 145.08 | 45.72 |
| 114.3 | 3.0 | 8.234 | 10.49 | 162.55 | 3.94 | 28.44 | 37.17 | 325.10 | 56.88 | 0.36 | 121.44 | 38.10 |
| 114.3 | 4.0 | 10.881 | 13.86 | 211.07 | 3.90 | 36.93 | 48.69 | 422.13 | 73.86 | 0.36 | 91.91 | 28.58 |
| 114.3 | 5.0 | 13.478 | 17.17 | 256.92 | 3.87 | 44.96 | 59.77 | 513.84 | 89.91 | 0.36 | 74.20 | 22.86 |
| 114.3 | 6.0 | 16.025 | 20.41 | 300.21 | 3.83 | 52.53 | 70.45 | 600.42 | 105.06 | 0.36 | 62.40 | 19.05 |
| 114.3 | 6.3 | 16.780 | 21.38 | 312.71 | 3.82 | 54.72 | 73.57 | 625.43 | 109.44 | 0.36 | 59.60 | 18.14 |
| 114.3 | 8.0 | 20.972 | 26.72 | 379.49 | 3.77 | 66.40 | 90.57 | 758.98 | 132.81 | 0.36 | 47.68 | 14.29 |
| 139.7 | 3.0 | 10.114 | 12.88 | 301.09 | 4.83 | 43.11 | 56.07 | 602.18 | 86.21 | 0.44 | 98.88 | 46.57 |
| 139.7 | 4.0 | 13.386 | 17.05 | 392.86 | 4.80 | 56.24 | 73.68 | 785.72 | 112.49 | 0.44 | 74.70 | 34.93 |
| 139.7 | 5.0 | 16.610 | 21.16 | 480.54 | 4.77 | 68.80 | 90.76 | 961.08 | 137.59 | 0.44 | 60.21 | 27.94 |
| 139.7 | 6.0 | 19.783 | 25.20 | 564.26 | 4.73 | 80.78 | 107.33 | 1128.52 | 161.56 | 0.44 | 50.55 | 23.28 |
| 139.7 | 6.3 | 20.726 | 26.40 | 588.62 | 4.72 | 84.27 | 112.20 | 1177.24 | 168.54 | 0.44 | 48.25 | 22.17 |
| 139.7 | 8.0 | 25.983 | 33.10 | 720.29 | 4.66 | 103.12 | 138.93 | 1440.58 | 206.24 | 0.44 | 38.49 | 17.46 |

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|-------------|-----------|---------|----------------------|-----------------------|--------------------|-----------------|-----------------|----------------------------|----------------------------|-----------------------------------|--------------------------|--------------------------|
| Size | Thickness | | | | | | | | | | | |
| OD | T | M | A | I | i | W _{el} | W _{pl} | L _t | C _t | As | L | B/T |
| mm | mm | Kg/m | cm ² | cm ⁴ | cm | cm ³ | cm ³ | cm ⁴ | cm ³ | m ² /m | m | |
| 168.3 | 3.0 | 12.230 | 15.58 | 532.28 | 5.85 | 63.25 | 81.98 | 1064.57 | 126.51 | 0.53 | 81.77 | 56.10 |
| 168.3 | 4.0 | 16.208 | 20.65 | 697.09 | 5.81 | 82.84 | 108.00 | 1394.18 | 165.68 | 0.53 | 61.70 | 42.08 |
| 168.3 | 5.0 | 20.136 | 25.65 | 855.85 | 5.78 | 101.70 | 133.38 | 1711.69 | 203.41 | 0.53 | 49.66 | 33.66 |
| 168.3 | 6.0 | 24.015 | 30.59 | 1008.69 | 5.74 | 119.87 | 158.12 | 2017.39 | 239.74 | 0.53 | 41.64 | 28.05 |
| 168.3 | 6.3 | 25.170 | 32.06 | 1053.42 | 5.73 | 125.18 | 165.42 | 2106.84 | 250.37 | 0.53 | 39.73 | 26.71 |
| 168.3 | 8.0 | 31.626 | 40.29 | 1297.27 | 5.67 | 154.16 | 205.74 | 2594.54 | 308.32 | 0.53 | 31.62 | 21.04 |
| 168.3 | 10.0 | 39.039 | 49.73 | 1563.98 | 5.61 | 185.86 | 250.92 | 3127.97 | 371.71 | 0.53 | 25.62 | 16.83 |
| 177.8 | 4.0 | 17.145 | 21.84 | 825.09 | 6.15 | 92.81 | 120.85 | 1650.17 | 185.62 | 0.56 | 58.33 | 44.45 |
| 177.8 | 5.0 | 21.308 | 27.14 | 1013.97 | 6.11 | 114.06 | 149.34 | 2027.94 | 228.11 | 0.56 | 46.93 | 35.56 |
| 177.8 | 6.0 | 25.421 | 32.38 | 1196.22 | 6.08 | 134.56 | 177.16 | 2392.43 | 269.12 | 0.56 | 39.34 | 29.63 |
| 177.8 | 6.3 | 26.646 | 33.94 | 1249.62 | 6.07 | 140.56 | 185.38 | 2499.24 | 281.13 | 0.56 | 37.53 | 28.22 |
| 177.8 | 8.0 | 33.500 | 42.68 | 1541.44 | 6.01 | 173.39 | 230.83 | 3082.87 | 346.78 | 0.56 | 29.85 | 22.23 |
| 177.8 | 10.0 | 41.382 | 52.72 | 1861.98 | 5.94 | 209.45 | 281.90 | 3723.96 | 418.89 | 0.56 | 24.17 | 17.78 |
| 177.8 | 12.0 | 49.067 | 62.51 | 2159.06 | 5.88 | 242.86 | 330.45 | 4318.11 | 485.73 | 0.56 | 20.38 | 14.82 |
| 177.8 | 12.5 | 50.957 | 64.91 | 2229.79 | 5.86 | 250.82 | 342.20 | 4459.59 | 501.64 | 0.56 | 19.62 | 14.22 |
| 193.7 | 4.0 | 18.713 | 23.84 | 1072.79 | 6.71 | 110.77 | 143.97 | 2145.58 | 221.54 | 0.61 | 53.44 | 48.43 |
| 193.7 | 5.0 | 23.268 | 29.64 | 1320.23 | 6.67 | 136.32 | 178.08 | 2640.46 | 272.63 | 0.61 | 42.98 | 38.74 |
| 193.7 | 6.0 | 27.774 | 35.38 | 1559.72 | 6.64 | 161.05 | 211.46 | 3119.45 | 322.09 | 0.61 | 36.01 | 32.28 |
| 193.7 | 6.3 | 29.116 | 37.09 | 1630.05 | 6.63 | 168.31 | 221.33 | 3260.09 | 336.61 | 0.61 | 34.35 | 30.75 |
| 193.7 | 8.0 | 36.637 | 46.67 | 2015.54 | 6.57 | 208.11 | 276.05 | 4031.07 | 416.22 | 0.61 | 27.29 | 24.21 |
| 193.7 | 10.0 | 45.303 | 57.71 | 2441.59 | 6.50 | 252.10 | 337.79 | 4883.18 | 504.20 | 0.61 | 22.07 | 19.37 |
| 193.7 | 12.0 | 53.772 | 68.50 | 2839.20 | 6.44 | 293.15 | 396.75 | 5678.40 | 586.31 | 0.61 | 18.60 | 16.14 |
| 193.7 | 12.5 | 55.858 | 71.16 | 2934.31 | 6.42 | 302.97 | 411.07 | 5868.62 | 605.95 | 0.61 | 17.90 | 15.50 |
| 219.1 | 4.0 | 21.219 | 27.03 | 1563.84 | 7.61 | 142.75 | 185.09 | 3127.67 | 285.50 | 0.69 | 47.13 | 54.78 |
| 219.1 | 5.0 | 26.400 | 33.63 | 1928.04 | 7.57 | 176.00 | 229.24 | 3856.09 | 351.99 | 0.69 | 37.88 | 43.82 |
| 219.1 | 6.0 | 31.532 | 40.17 | 2281.95 | 7.54 | 208.30 | 272.54 | 4563.89 | 416.60 | 0.69 | 31.71 | 36.52 |
| 219.1 | 6.3 | 33.062 | 42.12 | 2386.14 | 7.53 | 217.81 | 285.37 | 4772.28 | 435.63 | 0.69 | 30.25 | 34.78 |
| 219.1 | 8.0 | 41.648 | 53.06 | 2959.63 | 7.47 | 270.16 | 356.68 | 5919.27 | 540.33 | 0.69 | 24.01 | 27.39 |
| 219.1 | 10.0 | 51.567 | 65.69 | 3598.44 | 7.40 | 328.47 | 437.56 | 7196.88 | 656.95 | 0.69 | 19.39 | 21.91 |
| 219.1 | 12.0 | 61.289 | 78.07 | 4199.88 | 7.33 | 383.38 | 515.26 | 8399.76 | 766.75 | 0.69 | 16.32 | 18.26 |
| 219.1 | 12.5 | 63.688 | 81.13 | 4344.58 | 7.32 | 396.58 | 534.20 | 8689.16 | 793.17 | 0.69 | 15.70 | 17.53 |
| 244.5 | 5.0 | 29.532 | 37.62 | 2698.58 | 8.47 | 220.74 | 286.84 | 5397.16 | 441.49 | 0.77 | 33.86 | 48.90 |
| 244.5 | 6.0 | 35.291 | 44.96 | 3198.53 | 8.43 | 261.64 | 341.37 | 6397.07 | 523.28 | 0.77 | 28.34 | 40.75 |
| 244.5 | 6.3 | 37.009 | 47.14 | 3346.03 | 8.42 | 273.70 | 357.54 | 6692.05 | 547.41 | 0.77 | 27.02 | 38.81 |
| 244.5 | 8.0 | 46.660 | 59.44 | 4160.45 | 8.37 | 340.32 | 447.63 | 8320.89 | 680.65 | 0.77 | 21.43 | 30.56 |
| 244.5 | 10.0 | 57.831 | 73.67 | 5073.15 | 8.30 | 414.98 | 550.24 | 10146.29 | 829.96 | 0.77 | 17.29 | 24.45 |
| 244.5 | 12.0 | 68.806 | 87.65 | 5938.34 | 8.23 | 485.75 | 649.25 | 11876.69 | 971.51 | 0.77 | 14.53 | 20.38 |
| 244.5 | 12.5 | 71.518 | 91.11 | 6147.42 | 8.21 | 502.86 | 673.45 | 12294.84 | 1005.71 | 0.77 | 13.98 | 19.56 |
| 273 | 5.0 | 33.046 | 42.10 | 3780.81 | 9.48 | 276.98 | 359.16 | 7561.63 | 553.97 | 0.86 | 30.26 | 54.60 |
| 273 | 6.0 | 39.508 | 50.83 | 4487.08 | 9.44 | 328.72 | 427.81 | 8974.17 | 657.45 | 0.86 | 25.31 | 45.50 |
| 273 | 6.3 | 41.437 | 52.79 | 4695.82 | 9.43 | 344.02 | 448.20 | 9391.65 | 688.03 | 0.86 | 24.13 | 43.33 |
| 273 | 8.0 | 52.282 | 66.60 | 5851.71 | 9.37 | 428.70 | 561.97 | 11703.43 | 857.39 | 0.86 | 19.13 | 34.13 |
| 273 | 10.0 | 64.860 | 82.62 | 7154.09 | 9.31 | 524.11 | 692.02 | 14308.19 | 1048.22 | 0.86 | 15.42 | 27.30 |
| 273 | 12.0 | 77.240 | 98.39 | 8396.14 | 9.24 | 615.10 | 818.03 | 16792.28 | 1230.20 | 0.86 | 12.95 | 22.75 |
| 273 | 12.5 | 80.304 | 102.30 | 8697.45 | 9.22 | 637.18 | 848.90 | 17394.90 | 1274.35 | 0.86 | 12.45 | 21.84 |
| 323.9 | 5.0 | 39.323 | 50.09 | 6369.42 | 11.28 | 393.30 | 508.53 | 12738.85 | 786.59 | 1.02 | 25.43 | 64.78 |
| 323.9 | 6.0 | 47.039 | 59.92 | 7572.47 | 11.24 | 467.58 | 606.43 | 15144.93 | 935.16 | 1.02 | 21.26 | 53.98 |
| 323.9 | 6.3 | 49.345 | 62.86 | 7928.90 | 11.23 | 489.59 | 635.56 | 15857.79 | 979.18 | 1.02 | 20.27 | 51.41 |
| 323.9 | 8.0 | 62.325 | 79.39 | 9910.08 | 11.17 | 611.92 | 798.51 | 19820.16 | 1223.84 | 1.02 | 16.05 | 40.49 |
| 323.9 | 10.0 | 77.412 | 98.61 | 12158.34 | 11.10 | 750.75 | 985.67 | 24316.68 | 1501.49 | 1.02 | 12.92 | 32.39 |
| 323.9 | 12.0 | 92.303 | 117.58 | 14319.56 | 11.04 | 884.20 | 1167.96 | 28639.12 | 1768.39 | 1.02 | 10.83 | 26.99 |
| 323.9 | 12.5 | 95.995 | 122.29 | 14846.53 | 11.02 | 916.74 | 1212.78 | 29693.06 | 1833.47 | 1.02 | 10.42 | 25.91 |
| 355.6 | 5.0 | 43.232 | 55.07 | 8463.58 | 12.40 | 476.02 | 614.64 | 16927.15 | 952.03 | 1.12 | 23.13 | 71.12 |
| 355.6 | 6.0 | 51.730 | 65.90 | 10070.55 | 12.36 | 566.40 | 733.39 | 20141.11 | 1132.80 | 1.12 | 19.33 | 59.27 |
| 355.6 | 6.3 | 54.270 | 69.13 | 10547.21 | 12.35 | 593.21 | 768.75 | 21094.41 | 1186.41 | 1.12 | 18.43 | 56.44 |
| 355.6 | 8.0 | 68.579 | 87.36 | 13201.37 | 12.29 | 742.48 | 966.78 | 26402.75 | 1484.97 | 1.12 | 14.58 | 44.45 |
| 355.6 | 10.0 | 85.230 | 108.57 | 16223.50 | 12.22 | 912.46 | 1194.73 | 32447.00 | 1824.92 | 1.12 | 11.73 | 35.56 |
| 355.6 | 12.0 | 101.684 | 129.53 | 19139.47 | 12.16 | 1076.46 | 1417.31 | 38278.95 | 2152.92 | 1.12 | 9.83 | 29.63 |
| 355.6 | 12.5 | 105.767 | 134.74 | 19852.18 | 12.14 | 1116.55 | 1472.12 | 39704.35 | 2233.09 | 1.12 | 9.45 | 28.45 |
| 355.6 | 16.0 | 134.001 | 170.70 | 24663.00 | 12.02 | 1387.12 | 1846.62 | 49326.00 | 2774.24 | 1.12 | 7.46 | 22.23 |

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|-------------|-----------|---------|----------------------|-----------------------|--------------------|-----------------|-----------------|----------------------------|----------------------------|-----------------------------------|--------------------------|--------------------------|
| Size | Thickness | | | | | | | | | | | |
| OD | T | M | A | I | i | W_{el} | W_{pl} | L_t | C_t | As | L | B/T |
| mm | mm | Kg/m | cm ² | cm ⁴ | cm | cm ³ | cm ³ | cm ⁴ | cm ³ | m ² /m | m | |
| 406.4 | 6.0 | 59.247 | 75.47 | 15128.33 | 14.16 | 744.50 | 961.99 | 30256.65 | 1489.01 | 1.28 | 16.88 | 67.73 |
| 406.4 | 6.3 | 62.163 | 79.19 | 15849.43 | 14.15 | 779.99 | 1008.59 | 31698.87 | 1559.98 | 1.28 | 16.09 | 64.51 |
| 406.4 | 8.0 | 78.601 | 100.13 | 19873.89 | 14.09 | 978.05 | 1269.95 | 39747.79 | 1956.09 | 1.28 | 12.72 | 50.80 |
| 406.4 | 10.0 | 97.758 | 124.53 | 24475.81 | 14.02 | 1204.52 | 1571.66 | 48951.63 | 2409.04 | 1.28 | 10.23 | 40.64 |
| 406.4 | 12.0 | 116.718 | 148.69 | 28937.01 | 13.95 | 1424.07 | 1867.19 | 57874.03 | 2848.13 | 1.28 | 8.57 | 33.87 |
| 406.4 | 12.5 | 121.427 | 154.68 | 30030.67 | 13.93 | 1477.89 | 1940.12 | 60061.33 | 2955.77 | 1.28 | 8.24 | 32.51 |
| 406.4 | 16.0 | 154.046 | 196.24 | 37448.82 | 13.81 | 1842.95 | 2439.96 | 74897.64 | 3685.91 | 1.28 | 6.49 | 25.40 |
| 457 | 6.0 | 66.734 | 85.01 | 21618.10 | 15.95 | 946.09 | 1220.48 | 43236.21 | 1892.18 | 1.44 | 14.98 | 76.17 |
| 457 | 6.3 | 70.024 | 89.20 | 22654.16 | 15.94 | 991.43 | 1279.81 | 45308.32 | 1982.86 | 1.44 | 14.28 | 72.54 |
| 457 | 8.0 | 88.584 | 112.35 | 28446.36 | 15.88 | 1244.92 | 1612.98 | 56892.73 | 2489.83 | 1.44 | 11.29 | 57.13 |
| 457 | 10.0 | 110.237 | 140.43 | 35091.32 | 15.81 | 1535.73 | 1998.42 | 70182.65 | 3071.45 | 1.44 | 9.07 | 45.70 |
| 457 | 12.0 | 131.692 | 167.76 | 41556.30 | 15.74 | 1818.66 | 2376.88 | 83112.60 | 3637.31 | 1.44 | 7.59 | 38.08 |
| 457 | 12.5 | 137.025 | 174.55 | 43144.80 | 15.72 | 1888.18 | 2470.40 | 86289.61 | 3776.35 | 1.44 | 7.30 | 36.56 |
| 457 | 16.0 | 174.012 | 221.67 | 53959.38 | 15.60 | 2361.46 | 3113.06 | 107918.76 | 4722.92 | 1.44 | 5.75 | 28.56 |