

Atlas HSS Section Properties (Round) - CSA G40

| Shape | OD | Nominal Wall Thickness, t | Design Wall Thickness, td | Mass | Dead Load | Area, A | D/t | I | S | r | Z | Torsion | | Surface Area |
|-------------------|--------|---------------------------|---------------------------|------|-----------|---------|------|------|------|------|------|---------|------|--------------|
| | | | | | | | | | | | | J | C | |
| | | | | | | | | | | | | mm | mm | |
| HSS 20 x 0.625 | 508 | 15.88 | 15.88 | 193 | 1.89 | 24600 | 32.0 | 744 | 2930 | 174 | 3850 | 1488000 | 5860 | 1.60 |
| HSS 20 x 0.500 | 508 | 12.70 | 12.70 | 155 | 1.52 | 19800 | 40.0 | 606 | 2390 | 175 | 3120 | 1213000 | 4780 | 1.60 |
| HSS 20 x 0.375 | 508 | 9.53 | 9.53 | 117 | 1.15 | 14900 | 53.3 | 464 | 1830 | 176 | 2370 | 927000 | 3650 | 1.60 |
| HSS 20 x 0.250 | 508 | 6.35 | 6.35 | 78.6 | 0.771 | 10000 | 80.0 | 315 | 1240 | 177 | 1600 | 630000 | 2480 | 1.60 |
| HSS 18 x 0.625 | 457.2 | 15.88 | 15.88 | 173 | 1.70 | 22000 | 28.8 | 537 | 2350 | 156 | 3090 | 1073000 | 4690 | 1.44 |
| HSS 18 x 0.500 | 457.2 | 12.70 | 12.70 | 139 | 1.36 | 17700 | 36.0 | 438 | 1920 | 157 | 2510 | 877000 | 3840 | 1.44 |
| HSS 18 x 0.375 | 457.2 | 9.53 | 9.53 | 105 | 1.03 | 13400 | 48.0 | 336 | 1470 | 158 | 1910 | 671000 | 2940 | 1.44 |
| HSS 18 x 0.250 | 457.2 | 6.35 | 6.35 | 70.6 | 0.692 | 8990 | 72.0 | 229 | 1000 | 160 | 1290 | 457000 | 2000 | 1.44 |
| HSS 16 x 0.625 | 406.4 | 15.88 | 15.88 | 153 | 1.50 | 19500 | 25.6 | 372 | 1830 | 138 | 2420 | 744000 | 3660 | 1.28 |
| HSS 16 x 0.500 | 406.4 | 12.70 | 12.70 | 123 | 1.21 | 15700 | 32.0 | 305 | 1500 | 139 | 1970 | 609000 | 3000 | 1.28 |
| HSS 16 x 0.375 | 406.4 | 9.53 | 9.53 | 93.2 | 0.914 | 11900 | 42.6 | 234 | 1150 | 140 | 1500 | 468000 | 2300 | 1.28 |
| HSS 16 x 0.250 | 406.4 | 6.35 | 6.35 | 62.6 | 0.614 | 7980 | 64.0 | 160 | 787 | 142 | 1020 | 319000 | 1570 | 1.28 |
| HSS 14 x 0.625 | 355.6 | 15.88 | 15.88 | 133 | 1.30 | 16900 | 22.4 | 245 | 1380 | 120 | 1830 | 490000 | 2760 | 1.12 |
| HSS 14 x 0.500 | 355.6 | 12.70 | 12.70 | 107 | 1.05 | 13700 | 28.0 | 201 | 1130 | 121 | 1490 | 403000 | 2270 | 1.12 |
| HSS 14 x 0.437 | 355.6 | 11.10 | 11.10 | 94.3 | 0.925 | 12000 | 32.0 | 178 | 1000 | 122 | 1320 | 357000 | 2010 | 1.12 |
| HSS 14 x 0.375 | 355.6 | 9.53 | 9.53 | 81.3 | 0.797 | 10400 | 37.3 | 155 | 872 | 122 | 1140 | 310000 | 1740 | 1.12 |
| HSS 14 x 0.250 | 355.6 | 6.35 | 6.35 | 54.7 | 0.536 | 6970 | 56.0 | 106 | 596 | 123 | 775 | 213000 | 1200 | 1.12 |
| HSS 12.75 x 0.625 | 323.85 | 15.88 | 15.88 | 121 | 1.19 | 15400 | 20.4 | 183 | 1130 | 109 | 1510 | 365000 | 2250 | 1.02 |
| HSS 12.75 x 0.500 | 323.85 | 12.70 | 12.70 | 97.5 | 0.956 | 12400 | 25.5 | 150 | 926 | 110 | 1230 | 301000 | 1860 | 1.02 |
| HSS 12.75 x 0.375 | 323.85 | 9.53 | 9.53 | 73.8 | 0.724 | 9410 | 34.0 | 116 | 716 | 111 | 942 | 233000 | 1440 | 1.02 |
| HSS 12.75 x 0.250 | 323.85 | 6.35 | 6.35 | 49.7 | 0.487 | 6330 | 51.0 | 79.8 | 493 | 112 | 640 | 160000 | 988 | 1.02 |
| HSS 10.75 x 0.625 | 273.05 | 15.88 | 15.88 | 101 | 0.991 | 12800 | 17.2 | 106 | 776 | 91.0 | 1050 | 213000 | 1560 | 0.858 |
| HSS 10.75 x 0.500 | 273.05 | 12.70 | 12.70 | 81.5 | 0.799 | 10400 | 21.5 | 88.2 | 646 | 92.1 | 862 | 176000 | 1290 | 0.858 |
| HSS 10.75 x 0.375 | 273.05 | 9.53 | 9.53 | 61.9 | 0.607 | 7890 | 28.7 | 68.6 | 502 | 93.2 | 662 | 137000 | 1000 | 0.858 |
| HSS 10.75 x 0.365 | 273.05 | 9.27 | 9.27 | 60.3 | 0.591 | 7680 | 29.5 | 66.9 | 490 | 93.3 | 645 | 134000 | 982 | 0.858 |
| HSS 10.75 x 0.313 | 273.05 | 7.95 | 7.95 | 52.0 | 0.510 | 6620 | 34.3 | 58.2 | 426 | 93.8 | 559 | 116000 | 850 | 0.858 |
| HSS 10.75 x 0.250 | 273.05 | 6.35 | 6.35 | 41.8 | 0.410 | 5320 | 43.0 | 47.3 | 346 | 94.3 | 452 | 94700 | 694 | 0.858 |
| HSS 10.75 x 0.188 | 273.05 | 4.78 | 4.78 | 31.6 | 0.310 | 4030 | 57.1 | 36.3 | 266 | 94.9 | 344 | 72400 | 530 | 0.858 |

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|-------------------|---------|---------------------------|---------------------------|------|-----------|---------|------|------|------|------|------|---------|------|--------------|
| | | | | | | | | | | | | J | C | |
| HSS 10 x 0.625 | 254 | 15.88 | 15.88 | 93.2 | 0.914 | 11900 | 16.0 | 84.6 | 666 | 84.3 | 902 | 169000 | 1330 | 0.798 |
| HSS 10 x 0.500 | 254 | 12.70 | 12.70 | 75.6 | 0.741 | 9630 | 20.0 | 70.3 | 554 | 85.4 | 740 | 141000 | 1110 | 0.798 |
| HSS 10 x 0.375 | 254 | 9.53 | 9.53 | 57.4 | 0.563 | 7320 | 26.7 | 54.8 | 431 | 86.5 | 570 | 109000 | 858 | 0.798 |
| HSS 10 x 0.313 | 254 | 7.95 | 7.95 | 48.2 | 0.473 | 6150 | 31.9 | 46.6 | 367 | 87.0 | 481 | 93100 | 733 | 0.798 |
| HSS 10 x 0.250 | 254 | 6.35 | 6.35 | 38.8 | 0.381 | 4940 | 40.0 | 37.9 | 298 | 87.6 | 390 | 75800 | 597 | 0.798 |
| HSS 10 x 0.188 | 254 | 4.78 | 4.78 | 29.3 | 0.287 | 3740 | 53.1 | 29.1 | 229 | 88.2 | 297 | 58100 | 457 | 0.798 |
| HSS 9.625 x 0.625 | 244.475 | 15.88 | 15.88 | 89.5 | 0.878 | 11400 | 15.4 | 74.9 | 613 | 81.1 | 831 | 150000 | 1230 | 0.768 |
| HSS 9.625 x 0.500 | 244.475 | 12.70 | 12.70 | 72.6 | 0.712 | 9250 | 19.3 | 62.3 | 510 | 82.1 | 683 | 125000 | 1020 | 0.768 |
| HSS 9.625 x 0.375 | 244.475 | 9.53 | 9.53 | 55.2 | 0.541 | 7030 | 25.7 | 48.6 | 398 | 83.1 | 526 | 97200 | 795 | 0.768 |
| HSS 9.625 x 0.313 | 244.475 | 7.95 | 7.95 | 46.4 | 0.455 | 5910 | 30.8 | 41.4 | 339 | 83.7 | 445 | 82700 | 677 | 0.768 |
| HSS 9.625 x 0.250 | 244.475 | 6.35 | 6.35 | 37.3 | 0.366 | 4750 | 38.5 | 33.7 | 276 | 84.2 | 360 | 67400 | 551 | 0.768 |
| HSS 9.625 x 0.188 | 244.475 | 4.78 | 4.78 | 28.2 | 0.277 | 3600 | 51.1 | 25.9 | 212 | 84.8 | 275 | 51700 | 423 | 0.768 |
| HSS 8.625 x 0.625 | 219.075 | 15.88 | 15.88 | 79.6 | 0.781 | 10100 | 13.8 | 52.6 | 480 | 72.2 | 657 | 105000 | 959 | 0.688 |
| HSS 8.625 x 0.500 | 219.075 | 12.70 | 12.70 | 64.6 | 0.634 | 8230 | 17.3 | 44.0 | 402 | 73.1 | 542 | 88000 | 803 | 0.688 |
| HSS 8.625 x 0.375 | 219.075 | 9.53 | 9.53 | 49.2 | 0.483 | 6270 | 23.0 | 34.5 | 315 | 74.2 | 419 | 69000 | 630 | 0.688 |
| HSS 8.625 x 0.322 | 219.075 | 8.18 | 8.18 | 42.5 | 0.417 | 5420 | 26.8 | 30.2 | 276 | 74.6 | 364 | 60300 | 550 | 0.688 |
| HSS 8.625 x 0.250 | 219.075 | 6.35 | 6.35 | 33.3 | 0.327 | 4240 | 34.5 | 24.0 | 219 | 75.2 | 287 | 48100 | 439 | 0.688 |
| HSS 8.625 x 0.188 | 219.075 | 4.78 | 4.78 | 25.2 | 0.247 | 3220 | 45.8 | 18.5 | 169 | 75.8 | 220 | 36900 | 337 | 0.688 |
| HSS 6.625 x 0.500 | 168.275 | 12.70 | 12.70 | 48.7 | 0.478 | 6210 | 13.3 | 18.9 | 225 | 55.2 | 308 | 37800 | 449 | 0.529 |
| HSS 6.625 x 0.375 | 168.275 | 9.53 | 9.53 | 37.3 | 0.366 | 4750 | 17.7 | 15.0 | 178 | 56.2 | 240 | 30000 | 357 | 0.529 |
| HSS 6.625 x 0.313 | 168.275 | 7.95 | 7.95 | 31.4 | 0.308 | 4000 | 21.2 | 12.9 | 153 | 56.8 | 205 | 25800 | 307 | 0.529 |
| HSS 6.625 x 0.280 | 168.275 | 7.11 | 7.11 | 28.3 | 0.278 | 3600 | 23.7 | 11.7 | 139 | 57.0 | 185 | 23400 | 278 | 0.529 |
| HSS 6.625 x 0.250 | 168.275 | 6.35 | 6.35 | 25.4 | 0.249 | 3230 | 26.5 | 10.6 | 126 | 57.3 | 167 | 21200 | 252 | 0.529 |
| HSS 6.625 x 0.188 | 168.275 | 4.78 | 4.78 | 19.3 | 0.189 | 2460 | 35.2 | 8.21 | 97.6 | 57.8 | 128 | 16400 | 195 | 0.529 |
| HSS 6.625 x 0.125 | 168.275 | 3.18 | 3.18 | 12.9 | 0.127 | 1650 | 52.9 | 5.62 | 66.8 | 58.4 | 86.7 | 11200 | 133 | 0.529 |
| HSS 6 x 0.313 | 168.275 | 7.95 | 7.95 | 31.4 | 0.308 | 4000 | 21.2 | 12.9 | 153 | 56.8 | 205 | 25800 | 307 | 0.529 |
| HSS 6 x 0.250 | 168.275 | 6.35 | 6.35 | 25.4 | 0.249 | 3230 | 26.5 | 10.6 | 126 | 57.3 | 167 | 21200 | 252 | 0.529 |
| HSS 6 x 0.188 | 168.275 | 4.78 | 4.78 | 19.3 | 0.189 | 2460 | 35.2 | 8.21 | 97.6 | 57.8 | 128 | 16400 | 195 | 0.529 |

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|-------------------|--------|---------------------------|---------------------------|------|-----------|---------|------|-------|------|------|------|---------|------|--------------|
| | | | | | | | | | | | | J | C | |
| HSS 5.563 x 0.500 | 141.30 | 12.70 | 12.70 | 40.3 | 0.395 | 5130 | 11.1 | 10.7 | 151 | 45.7 | 211 | 21400 | 303 | 0.444 |
| HSS 5.563 x 0.375 | 141.30 | 9.53 | 9.53 | 31.0 | 0.304 | 3950 | 14.8 | 8.61 | 122 | 46.7 | 166 | 17200 | 243 | 0.444 |
| HSS 5.563 x 0.250 | 141.30 | 6.35 | 6.35 | 21.1 | 0.207 | 2690 | 22.3 | 6.14 | 86.9 | 47.8 | 116 | 12300 | 174 | 0.444 |
| HSS 5.563 x 0.188 | 141.30 | 4.78 | 4.78 | 16.1 | 0.158 | 2050 | 29.6 | 4.78 | 67.7 | 48.3 | 89.1 | 9560 | 135 | 0.444 |
| HSS 5.000 x 0.500 | 127 | 12.70 | 12.70 | 35.8 | 0.351 | 4560 | 10.0 | 7.54 | 119 | 40.7 | 167 | 15100 | 238 | 0.399 |
| HSS 5.000 x 0.375 | 127 | 9.53 | 9.53 | 27.6 | 0.271 | 3520 | 13.3 | 6.11 | 96.2 | 41.7 | 132 | 12200 | 192 | 0.399 |
| HSS 5.000 x 0.313 | 127 | 7.95 | 7.95 | 23.3 | 0.229 | 2970 | 16.0 | 5.29 | 83.3 | 42.2 | 113 | 10600 | 167 | 0.399 |
| HSS 5.000 x 0.188 | 127 | 4.78 | 4.78 | 14.4 | 0.141 | 1840 | 26.6 | 3.43 | 54.0 | 43.2 | 71.4 | 6860 | 108 | 0.399 |
| HSS 5.000 x 0.125 | 127 | 3.18 | 3.18 | 9.70 | 0.0951 | 1240 | 39.9 | 2.37 | 37.3 | 43.7 | 48.8 | 4740 | 74.6 | 0.399 |
| HSS 4.500 x 0.337 | 114.3 | 8.56 | 8.56 | 22.3 | 0.219 | 2840 | 13.4 | 4.00 | 70.0 | 37.5 | 95.9 | 8000 | 140 | 0.359 |
| HSS 4.500 x 0.250 | 114.3 | 6.35 | 6.35 | 16.9 | 0.166 | 2150 | 18.0 | 3.15 | 55.1 | 38.3 | 74.1 | 6300 | 110 | 0.359 |
| HSS 4.500 x 0.237 | 114.3 | 6.02 | 6.02 | 16.1 | 0.158 | 2050 | 19.0 | 3.01 | 52.7 | 38.3 | 70.7 | 6020 | 105 | 0.359 |
| HSS 4.500 x 0.188 | 114.3 | 4.78 | 4.78 | 12.9 | 0.127 | 1640 | 23.9 | 2.47 | 43.2 | 38.8 | 57.4 | 4940 | 86.4 | 0.359 |
| HSS 4.500 x 0.125 | 114.3 | 3.18 | 3.18 | 8.70 | 0.0853 | 1110 | 35.9 | 1.71 | 29.9 | 39.2 | 39.3 | 3420 | 59.8 | 0.359 |
| HSS 4.000 x 0.250 | 101.6 | 6.35 | 6.35 | 14.9 | 0.146 | 1900 | 16.0 | 2.16 | 42.5 | 33.7 | 57.7 | 4330 | 85.2 | 0.319 |
| HSS 4.000 x 0.188 | 101.6 | 4.78 | 4.78 | 11.4 | 0.112 | 1450 | 21.3 | 1.71 | 33.7 | 34.3 | 44.8 | 3410 | 67.1 | 0.319 |
| HSS 4.000 x 0.125 | 101.6 | 3.18 | 3.18 | 7.71 | 0.0756 | 983 | 31.9 | 1.19 | 23.4 | 34.8 | 30.8 | 2380 | 46.9 | 0.319 |
| HSS 3.500 x 0.250 | 88.9 | 6.35 | 6.35 | 12.9 | 0.127 | 1650 | 14.0 | 1.41 | 31.7 | 29.2 | 43.4 | 2820 | 63.4 | 0.279 |
| HSS 3.500 x 0.216 | 88.9 | 5.49 | 5.49 | 11.3 | 0.111 | 1440 | 16.2 | 1.26 | 28.3 | 29.6 | 38.3 | 2510 | 56.5 | 0.279 |
| HSS 3.500 x 0.188 | 88.9 | 4.78 | 4.78 | 9.91 | 0.0972 | 1260 | 18.6 | 1.12 | 25.2 | 29.8 | 33.9 | 2240 | 50.4 | 0.279 |
| HSS 3.500 x 0.125 | 88.9 | 3.18 | 3.18 | 6.71 | 0.0658 | 856 | 28.0 | 0.788 | 17.7 | 30.3 | 23.4 | 1570 | 35.3 | 0.279 |
| HSS 3.000 x 0.250 | 76.2 | 6.35 | 6.35 | 10.9 | 0.107 | 1390 | 12.0 | 0.857 | 22.5 | 24.8 | 31.1 | 1710 | 44.9 | 0.239 |
| HSS 3.000 x 0.188 | 76.2 | 4.78 | 4.78 | 8.41 | 0.0825 | 1070 | 15.9 | 0.687 | 18.0 | 25.3 | 24.4 | 1370 | 36.0 | 0.239 |
| HSS 3.000 x 0.125 | 76.2 | 3.18 | 3.18 | 5.72 | 0.0561 | 729 | 24.0 | 0.487 | 12.8 | 25.8 | 17.0 | 973 | 25.5 | 0.239 |
| HSS 2.875 x 0.188 | 73.025 | 4.78 | 4.78 | 8.04 | 0.0788 | 1020 | 15.3 | 0.600 | 16.4 | 24.3 | 22.3 | 1200 | 32.9 | 0.229 |
| HSS 2.875 x 0.125 | 73.025 | 3.18 | 3.18 | 5.47 | 0.0536 | 698 | 23.0 | 0.426 | 11.7 | 24.7 | 15.5 | 852 | 23.3 | 0.229 |
| HSS 2.500 x 0.250 | 63.5 | 6.35 | 6.35 | 8.95 | 0.0878 | 1140 | 10.0 | 0.471 | 14.8 | 20.3 | 20.8 | 942 | 29.7 | 0.199 |
| HSS 2.500 x 0.188 | 63.5 | 4.78 | 4.78 | 6.92 | 0.0679 | 882 | 13.3 | 0.383 | 12.1 | 20.8 | 16.5 | 765 | 24.1 | 0.199 |
| HSS 2.500 x 0.125 | 63.5 | 3.18 | 3.18 | 4.72 | 0.0463 | 603 | 20.0 | 0.275 | 8.66 | 21.4 | 11.6 | 549 | 17.3 | 0.199 |

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|-------------------|--------|---------------------------|---------------------------|------|-----------|---------|-------|--------|------|------|------|---------|------|--------------|
| | | | | | | | | | | | | J | C | |
| HSS 2.375 x 0.218 | 60.325 | 5.54 | 5.54 | 7.48 | 0.0734 | 954 | 10.9 | 0.361 | 12.0 | 19.5 | 16.7 | 723 | 24.0 | 0.190 |
| HSS 2.375 x 0.188 | 60.325 | 4.78 | 4.78 | 6.54 | 0.0641 | 834 | 12.6 | 0.324 | 10.7 | 19.7 | 14.8 | 648 | 21.5 | 0.190 |
| HSS 2.375 x 0.154 | 60.325 | 3.91 | 3.91 | 5.44 | 0.0534 | 693 | 15.4 | 0.277 | 9.18 | 20.0 | 12.5 | 554 | 18.4 | 0.190 |
| HSS 2.375 x 0.125 | 60.325 | 3.18 | 3.18 | 4.47 | 0.0438 | 571 | 19.0 | 0.234 | 7.76 | 20.2 | 10.4 | 467 | 15.5 | 0.190 |
| HSS 1.900 x 0.188 | 48.26 | 4.78 | 4.78 | 5.12 | 0.0502 | 653 | 10.1 | 0.156 | 6.46 | 15.5 | 9.07 | 312 | 12.9 | 0.152 |
| HSS 1.900 x 0.145 | 48.26 | 3.68 | 3.68 | 4.05 | 0.0397 | 515 | 13.1 | 0.129 | 5.35 | 15.8 | 7.33 | 258 | 10.7 | 0.152 |
| HSS 1.900 x 0.125 | 48.26 | 3.16 | 3.16 | 3.52 | 0.0345 | 448 | 15.3 | 0.114 | 4.72 | 16.0 | 6.44 | 229 | 9.49 | 0.152 |
| HSS 1.900 x 0.109 | 48.26 | 2.77 | 2.77 | 3.11 | 0.0305 | 396 | 17.4 | 0.103 | 4.27 | 16.1 | 5.74 | 205 | 8.50 | 0.152 |
| HSS 1.900 x 0.100 | 48.26 | 2.54 | 2.54 | 2.86 | 0.0280 | 365 | 19.0 | 0.0956 | 3.96 | 16.2 | 5.31 | 191 | 7.92 | 0.152 |
| HSS 1.660 x 0.140 | 42.164 | 3.56 | 3.56 | 3.39 | 0.0332 | 432 | 11.8 | 0.0811 | 3.85 | 13.7 | 5.32 | 162 | 7.68 | 0.132 |
| HSS 1.660 x 0.125 | 42.164 | 3.18 | 3.18 | 3.05 | 0.0299 | 389 | 13.3 | 0.0745 | 3.53 | 13.8 | 4.84 | 149 | 7.07 | 0.132 |
| HSS 1.660 x 0.109 | 42.164 | 2.77 | 2.77 | 2.69 | 0.0264 | 343 | 15.2 | 0.0668 | 3.17 | 14.0 | 4.31 | 134 | 6.36 | 0.132 |
| HSS 1.660 x 0.100 | 42.164 | 2.54 | 2.54 | 2.48 | 0.0243 | 316 | 16.6 | 0.0623 | 2.96 | 14.0 | 3.99 | 125 | 5.93 | 0.132 |
| HSS 1.315 x 0.133 | 33.401 | 3.38 | 3.38 | 2.50 | 0.0245 | 319 | 9.9 | 0.0364 | 2.18 | 10.7 | 3.06 | 72.7 | 4.35 | 0.105 |
| HSS 1.315 x 0.125 | 33.401 | 3.18 | 3.18 | 2.37 | 0.0232 | 302 | 10.5 | 0.0348 | 2.08 | 10.7 | 2.92 | 69.6 | 4.17 | 0.105 |
| HSS 1.315 x 0.100 | 33.401 | 2.54 | 2.54 | 1.93 | 0.0189 | 246 | 13.2 | 0.0295 | 1.77 | 11.0 | 2.42 | 59.0 | 3.53 | 0.105 |
| HSS 1.050 x 0.100 | 26.67 | 2.54 | 2.54 | 1.51 | 0.0148 | 193 | 10.50 | 0.0142 | 1.06 | 8.58 | 1.48 | 28.3 | 2.12 | 0.0838 |

Notes:

Always refer to the Atlas Tube Availability Chart to avoid selecting sections that are more difficult to source.