

KCS OPEN WEB STEEL JOISTS

ASD

METRIC LOAD TABLE FOR KCS OPEN WEB STEEL JOISTS
Based on a 345 MPa Maximum Yield Strength

| JOIST DESIGNATION | DEPTH (mm) | MOMENT CAPACITY* (kN-m) | SHEAR CAPACITY* (kN) | APPROX. WEIGHT** | | GROSS MOMENT OF INERTIA (cm ⁴) | BRIDGING TABLE SECTION NUMBER |
|-------------------|------------|-------------------------|----------------------|------------------|--------|--|-------------------------------|
| | | | | (kN/m) | (kg/m) | | |
| 10KCS1 | 254 | 19.4 | 8.8 | 0.09 | 8.9 | 1200 | 1 |
| 10KCS2 | 254 | 25.4 | 11.1 | 0.11 | 11.2 | 1540 | 1 |
| 10KCS3 | 254 | 33.4 | 13.3 | 0.15 | 14.9 | 1950 | 1 |
| 12KCS1 | 305 | 23.6 | 10.6 | 0.09 | 8.9 | 1780 | 3 |
| 12KCS2 | 305 | 31.0 | 13.3 | 0.12 | 11.9 | 2280 | 5 |
| 12KCS3 | 305 | 40.9 | 15.5 | 0.15 | 14.9 | 2950 | 5 |
| 14KCS1 | 356 | 27.9 | 12.8 | 0.09 | 9.7 | 2450 | 4 |
| 14KCS2 | 356 | 36.6 | 15.1 | 0.12 | 11.9 | 3200 | 6 |
| 14KCS3 | 356 | 48.4 | 17.3 | 0.15 | 14.9 | 4120 | 6 |
| 16KCS2 | 406 | 39.4 | 17.7 | 0.12 | 12.6 | 4120 | 6 |
| 16KCS3 | 406 | 53.1 | 21.3 | 0.15 | 15.6 | 5320 | 9 |
| 16KCS4 | 406 | 81.3 | 23.5 | 0.21 | 21.6 | 7990 | 9 |
| 16KCS5 | 406 | 105.5 | 25.7 | 0.26 | 26.8 | 10190 | 9 |
| 18KCS2 | 457 | 44.6 | 20.9 | 0.13 | 13.4 | 5280 | 6 |
| 18KCS3 | 457 | 60.1 | 23.1 | 0.16 | 16.4 | 6820 | 9 |
| 18KCS4 | 457 | 92.3 | 25.3 | 0.22 | 22.3 | 10280 | 10 |
| 18KCS5 | 457 | 120.0 | 27.5 | 0.27 | 27.5 | 13150 | 10 |
| 20KCS2 | 508 | 49.9 | 23.1 | 0.14 | 14.1 | 6610 | 6 |
| 20KCS3 | 508 | 67.2 | 26.6 | 0.17 | 17.1 | 8530 | 9 |
| 20KCS4 | 508 | 103.3 | 35.1 | 0.24 | 24.6 | 12810 | 10 |
| 20KCS5 | 508 | 134.6 | 37.3 | 0.29 | 29.8 | 16480 | 10 |
| 22KCS2 | 559 | 55.1 | 26.2 | 0.15 | 14.9 | 8070 | 6 |
| 22KCS3 | 559 | 74.3 | 29.3 | 0.18 | 18.6 | 10440 | 9 |
| 22KCS4 | 559 | 114.3 | 35.1 | 0.24 | 24.6 | 15690 | 11 |
| 22KCS5 | 559 | 149.0 | 38.2 | 0.30 | 30.5 | 20180 | 11 |
| 24KCS2 | 610 | 60.3 | 28.0 | 0.15 | 14.9 | 9650 | 6 |
| 24KCS3 | 610 | 81.3 | 32.0 | 0.18 | 18.6 | 12520 | 9 |
| 24KCS4 | 610 | 125.2 | 37.3 | 0.24 | 24.6 | 18850 | 12 |
| 24KCS5 | 610 | 163.6 | 39.5 | 0.30 | 30.5 | 24300 | 12 |
| 26KCS2 | 660 | 65.5 | 29.3 | 0.15 | 14.9 | 11400 | 6 |
| 26KCS3 | 660 | 88.5 | 34.6 | 0.18 | 18.6 | 14770 | 9 |
| 26KCS4 | 660 | 136.3 | 37.8 | 0.24 | 24.6 | 22310 | 12 |
| 26KCS5 | 660 | 178.1 | 40.9 | 0.30 | 30.5 | 28760 | 12 |
| 28KCS2 | 711 | 70.7 | 30.6 | 0.15 | 15.6 | 13310 | 6 |
| 28KCS3 | 711 | 95.6 | 35.5 | 0.18 | 18.6 | 17230 | 9 |
| 28KCS4 | 711 | 147.2 | 37.8 | 0.24 | 24.6 | 26050 | 12 |
| 28KCS5 | 711 | 192.5 | 40.9 | 0.30 | 30.5 | 33630 | 12 |
| 30KCS3 | 762 | 102.6 | 35.5 | 0.19 | 19.3 | 19890 | 9 |
| 30KCS4 | 762 | 158.2 | 37.8 | 0.24 | 24.6 | 30050 | 12 |
| 30KCS5 | 762 | 207.1 | 40.9 | 0.31 | 31.3 | 38870 | 12 |

*MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY IS 8020 NEWTONS/METER AND SINGLE CONCENTRATED LOAD CANNOT EXCEED SHEAR CAPACITY

**DOES NOT INCLUDE ACCESSORIES

