

KCS OPEN WEB STEEL JOISTS

LRFD



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)	APPROXIMATE WEIGHT**		GROSS MOMENT OF INERTIA (cm ⁴)	BRIDGING TABLE SECTION NUMBER
				(kN/m)	(kg/m)		
10KCS1	254	29.1	13.3	0.09	8.9	1200	1
10KCS2	254	38.1	16.6	0.11	11.2	1540	1
10KCS3	254	50.1	20.0	0.15	14.9	1950	1
12KCS1	305	35.4	16.0	0.09	8.9	1780	3
12KCS2	305	46.4	20.0	0.12	11.9	2280	5
12KCS3	305	61.3	23.3	0.15	14.9	2950	5
14KCS1	356	41.8	19.3	0.09	9.7	2450	4
14KCS2	356	54.9	22.6	0.12	11.9	3200	6
14KCS3	356	72.5	26.0	0.15	14.9	4120	6
16KCS2	406	59.1	26.6	0.12	12.6	4120	6
16KCS3	406	79.6	32.0	0.15	15.6	5320	9
16KCS4	406	122.0	35.3	0.21	21.6	7990	9
16KCS5	406	158.2	38.6	0.26	26.8	10190	9
18KCS2	457	66.9	31.3	0.13	13.4	5280	6
18KCS3	457	90.1	34.6	0.16	16.4	6820	9
18KCS4	457	138.4	38.0	0.22	22.3	10280	10
18KCS5	457	179.9	41.3	0.27	27.5	13150	10
20KCS2	508	74.9	34.6	0.14	14.1	6610	6
20KCS3	508	100.8	40.0	0.17	17.1	8530	9
20KCS4	508	154.9	52.7	0.24	24.6	12810	10
20KCS5	508	201.8	56.0	0.29	29.8	16480	10
22KCS2	559	82.7	39.3	0.15	14.9	8070	6
22KCS3	559	111.5	44.0	0.18	18.6	10440	9
22KCS4	559	171.5	52.7	0.24	24.6	15690	11
22KCS5	559	223.5	57.3	0.30	30.5	20180	11
24KCS2	610	90.5	42.0	0.15	14.9	9650	6
24KCS3	610	122.0	48.0	0.18	18.6	12520	9
24KCS4	610	187.7	56.0	0.24	24.6	18850	12
24KCS5	610	245.4	59.3	0.30	30.5	24300	12
26KCS2	660	98.2	44.0	0.15	14.9	11400	6
26KCS3	660	132.7	52.0	0.18	18.6	14770	9
26KCS4	660	204.3	56.7	0.24	24.6	22310	12
26KCS5	660	267.0	61.3	0.30	30.5	28760	12
28KCS2	711	106.0	46.0	0.15	15.6	13310	6
28KCS3	711	143.3	53.3	0.18	18.6	17230	9
28KCS4	711	220.8	56.7	0.24	24.6	26050	12
28KCS5	711	288.7	61.3	0.30	30.5	33630	12
30KCS3	762	153.8	53.3	0.19	19.3	19890	9
30KCS4	762	237.2	56.7	0.24	24.6	30050	12
30KCS5	762	310.6	61.3	0.31	31.3	38870	12

*MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY IS 12030 NEWTONS/METER AND SINGLE CONCENTRATED LOAD CANNOT EXCEED SHEAR CAPACITY

**DOES NOT INCLUDE ACCESSORIES

