Engineering Information

Rolled Steel Beams and Channels and Properties Table

Engineering Information

Designation		Weight Per metre	Sectional Area a cm ²	Depth of Section h mm	Width of Flange b mm	Thickness of Flange tf, mm	Thickness of Web tw mm
		W kg.					
ISJC	100	5.8	7.41	100	45	5.1	3.0
ISJC	125	7.9	10.07	125	50	6.6	3.0
ISJC	150	9.9	12.65	150	55	6.9	3.6
ISJC	175	11.2	14.24	175	60	6.9	3.6
ISJC	200	13.9	17.77	200	70	7.1	4.1
ISLC	75	5.7	7.26	75	40	6.0	3.7
ISLC	100	7.9	10.02	100	50	6.4	4.0
ISLC	125	10.7	13.67	125	65	6.6	4.4
ISLC	150	14.4	18.36	150	75	7.8	4.8
ISLC	175	17.6	22.40	175	75	9.5	5.1
ISLC	200	20.6	26.22	200	75	10.8	5.5
ISLC	225	24.0	30.53	225	90	10.2	5.8
ISLC	250	28.0	35.65	250	100	10.7	6.1
ISLC	300	33.1	42.11	300	100	11.6	6.7
ISLC	350	38.8	49.47	350	100	12.5	7.4
ISLC	400	45.7	58.25	400	100	14.0	8.0
ISMC	75	6.8	8.67	75	40	7.3	4.4
ISMC	100	9.2	11.70	100	50	7.5	4.7
ISMC	125	12.7	16.19	125	65	8.1	5.0
is C	150	16.4	20.88	150	75	9.0	5.4
ISMC	175	19.1	24.38	175	75	10.2	5.7
ISMC	200	22.1	18.21	200	75	11.4	6.1
ISMC	225	25.9	33.01	225	80	12.4	6.4
ISMC	250	30.4	38.67	250	80	14.1	7.1
ISMC	300	35.8	45.64	300	90	13.6	7.6
ISMC	350	42.1	53.66	350	100	13.5	8.1
ISMC	400	49.4	62.93	400	100	15.3	8.6

Engineering Information

Centre of Gravity	Moments of Inertia		ruon or	Modulie of Section		
Суу	XX	lyy	rxx	ryy	ZXX	zyy
cm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
140	123.8	14.9	4.09	1.42	24.8	4.8
1.64	270.0	25.7	5.18	1.60	43.2	7.6
1.66	471.1	37.9	6.10	1.73	62.8	9.9
1.75	719.9	50.5	7.11	1.88	82.3	11.9
1.97	1161.2	84.2	8.08	2.18	116.1	16.7
1.35	66.1	11.5	3.02	1.26	17.6	4.3
1.62	164.7	24.8	4.06	1.57	32.9	7.3
2.04	356.8	57.2	5.11	2.05	57.1	12.8
2.38	697.2	103.2	6.16	2.37	93.0	20.2
2.40	1148.4	126.5	7.16	2.38	131.3	24.8
2.35	1725.5	146.9	8.11	2.37	172.6	28.5
2.64	1547.9	209.5	9.14	2.62	226.5	32.0
2.70	3687.9	298.4	10.17	2.89 -	29.50	40.9
2.55	6047.9	346.0	11.98	2.87	403.2	46.4
2.41	9312.6	394.6	13.72	2.82	532.1	52.0
2.36	13989.5	460.4	15.50	2.81	699.5	60.2
1.31	76.0	12.6	2.96	1.21	20.3	4.7
1.53	186.7	25.9	4.00	1.49	37.3	7.5
1.94	416.4	59.9	5.07	1.92	66.6	13.0
2.22	779.4	102.3	6.11	2.21	103.9	19.4
2.20	1223.3	121.0	7.08	2.23	139.8	22.8
2.17	1819.3	140.4	8.03	2.23	181.9	26,3
2.30	2694.6	187.2	2.03	2.38	239.5	32.8
2.30	3816.8	219.1	9.94	2.38	305.3	38.4
2.36	6362.6	310.8	11.81	2.61	424.2	46.8
2.44	10008.0 15382.8	430.6 504.8	13.66	2.83	571.9	57.0

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