



The load tables mentioned above do not necessarily represent the product availability. Please refer to the product catalogue.

SECTION PROPERTIES (PER METRE OF WIDTH)

METRIC	Base Steel Thickness (mm)	Mass Z275 (kg/m ²)	Yield Stress (MPa)	Sec. Modulus		Deflection Moment of Inertia (x10 ⁶ mm ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (kN)	P _{e2} End (kN)	P _{i1} Interior (kN)	P _{i2} Interior (kN)
				(x10 ³ mm ³)	(x10 ³ mm ³)					
	0.305	3.11	230	0.615	0.498	0.0102	0.254	0.064	0.491	0.084
	0.381	3.82	230	0.765	0.642	0.0128	0.413	0.103	0.795	0.135
	0.457	4.53	230	0.914	0.790	0.0153	0.610	0.153	1.17	0.199
	0.610	5.95	230	1.21	1.09	0.0203	1.13	0.282	2.16	0.367
	0.762	7.37	230	1.50	1.39	0.0253	1.80	0.451	3.45	0.586

Live load factor = 1.5; Importance factor = 0.90; Importance Category = 1.0

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (mm)		1-SPAN					2-SPAN					3-SPAN				
		BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)				
		0.305	0.381	0.457	0.610	0.762	0.305	0.381	0.457	0.610	0.762	0.305	0.381	0.457	0.610	0.762
300	S	7.54	9.38	11.2	14.8	18.4	6.11	7.88	9.69	13.4	17.0	7.64	9.85	12.1	16.7	21.3
	D	36.5	45.5	54.5	72.4	90.2	87.6	109	131	174	216	69.0	86.1	103	137	170
400	S	4.24	5.28	6.30	8.33	10.3	3.44	4.43	5.45	7.52	9.59	4.30	5.54	6.81	9.40	12.0
	D	15.4	19.2	23.0	30.6	38.0	37.0	46.1	55.2	73.3	91.3	29.1	36.3	43.5	57.7	71.9
500	S	2.71	3.38	4.03	5.33	6.61	2.20	2.84	3.49	4.81	6.13	2.75	3.55	4.36	6.01	7.67
	D	7.88	9.84	11.8	15.6	19.5	18.9	23.6	28.3	37.5	46.7	14.9	18.6	22.3	29.6	36.8
600	S	1.88	2.35	2.80	3.70	4.59	1.53	1.97	2.42	3.34	4.26	1.91	2.46	3.03	4.18	5.33
	D	4.56	5.69	6.82	9.05	11.3	11.0	13.7	16.4	21.7	27.1	8.62	10.8	12.9	17.1	21.3
700	S	1.38	1.72	2.06	2.72	3.37	1.12	1.45	1.78	2.45	3.13	1.40	1.81	2.22	3.07	3.91
	D	2.87	3.58	4.29	5.70	7.10	6.90	8.60	10.3	13.7	17.0	5.43	6.77	8.11	10.8	13.4
800	S	1.06	1.32	1.58	2.08	2.58	0.86	1.11	1.36	1.88	2.40	1.07	1.39	1.70	2.35	3.00
	D	1.92	2.40	2.88	3.82	4.75	4.62	5.76	6.90	9.17	11.4	3.64	4.54	5.43	7.22	8.99
900	S	0.84	1.04	1.25	1.65	2.04	0.68	0.88	1.08	1.48	1.89	0.85	1.09	1.35	1.86	2.37
	D	1.35	1.69	2.02	2.68	3.34	3.24	4.05	4.85	6.44	8.01	2.55	3.19	3.82	5.07	6.31
1000	S	0.68	0.84	1.01	1.33	1.65	0.55	0.71	0.87	1.20	1.53	0.69	0.89	1.09	1.50	1.92
	D	0.99	1.23	1.47	1.96	2.43	2.37	2.95	3.53	4.69	5.84	1.86	2.32	2.78	3.70	4.60
1100	S	0.56	0.70	0.83	1.10	1.36	0.45	0.59	0.72	0.99	1.27	0.57	0.73	0.90	1.24	1.58
	D	0.74	0.92	1.11	1.47	1.83	1.78	2.22	2.65	3.53	4.39	1.40	1.75	2.09	2.78	3.46
1200	S	0.47	0.59	0.70	0.93	1.15	0.38	0.49	0.61	0.84	1.07	0.48	0.62	0.76	1.04	1.33
	D	0.57	0.71	0.85	1.13	1.41	1.37	1.71	2.04	2.72	3.38	1.08	1.34	1.61	2.14	2.66

- Notes:**
- 1 Based on ASTM A 653M Grade 230 structural steel.
 - 2 Values in row "S" are based on strength.
 - 3 Values in row "D" are based on deflection of 1/180th span.
 - 4 Web crippling not included in strength calculations. See Example.
- Limit States Design principles were used in accordance with CSA Standard S136-07

