

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

SECTION PROPERTIES (PER FOOT OF WIDTH)

IMPERIAL	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Sec. Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (lb)	P _{e2} End (lb)	P _{i1} Interior (lb)	P _{i2} Interior (lb)
				(in ³)	(in ³)					
	0.012	0.73	33	0.0323	0.0323	0.0142				
	0.015	0.90	33	0.0403	0.0403	0.0177				
	0.018	1.07	33	0.0482	0.0482	0.0213				
	0.024	1.41	33	0.0640	0.0640	0.0285				
	0.030	1.75	33	0.0796	0.0796	0.0357				

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

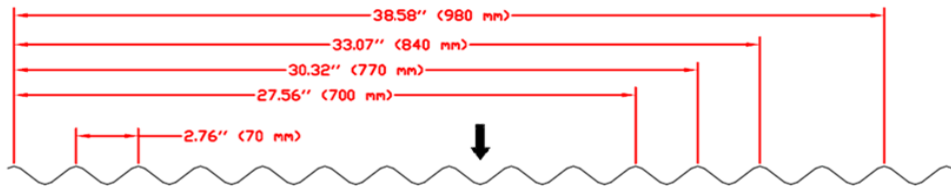
MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (ft)		1-SPAN					2-SPAN					3-SPAN				
		BASE STEEL THICKNESS (inches)					BASE STEEL THICKNESS (inches)					BASE STEEL THICKNESS (inches)				
		0.012	0.015	0.018	0.024	0.030	0.012	0.015	0.018	0.024	0.030	0.012	0.015	0.018	0.024	0.030
2.0	S	107	133	159	211	263	107	133	159	211	263	133	166	199	264	329
	D	172	215	258	345	432	412	516	620	828	1037	325	406	488	652	817
2.5	S	68	85	102	135	168	68	85	102	135	168	85	106	127	169	210
	D	88	110	132	177	221	211	264	317	424	531	166	208	250	334	418
3.0	S	47	59	71	94	117	47	59	71	94	117	59	74	88	117	146
	D	51	64	77	102	128	122	153	184	245	307	96	120	145	193	242
3.5	S	35	43	52	69	86	35	43	52	69	86	43	54	65	86	107
	D	32	40	48	64	81	77	96	116	155	194	61	76	91	122	152
4.0	S	27	33	40	53	66	27	33	40	53	66	33	42	50	66	82
	D	21	27	32	43	54	52	64	77	104	130	41	51	61	82	102
4.5	S	21	26	31	42	52	21	26	31	42	52	26	33	39	52	65
	D	15	19	23	30	38	36	45	54	73	91	28	36	43	57	72
5.0	S	17	21	25	34	42	17	21	25	34	42	21	27	32	42	53
	D	11	14	17	22	28	26	33	40	53	66	21	26	31	42	52
5.5	S	14	18	21	28	35	14	18	21	28	35	18	22	26	35	43
	D	8	10	12	17	21	20	25	30	40	50	16	20	23	31	39
6.0	S	12	15	18	23	29	12	15	18	23	29	15	18	22	29	37
	D	6	8	10	13	16	15	19	23	31	38	12	15	18	24	30
6.5	S		13	15	20	25	10	13	15	20	25	13	16	19	25	31
	D		6	8	10	13	12	15	18	24	30	9	12	14	19	24
7.0	S			13	17	21	9	11	13	17	21	11	14	16	22	27
	D			6	8	10	10	12	14	19	24	8	9	11	15	19
7.5	S				15	19	8	9	11	15	19	9	12	14	19	23
	D				7	8	8	10	12	16	20	6	8	9	12	15
8.0	S					16	7	8	10	13	16		10	12	16	21
	D					7	6	8	10	13	16		6	8	10	13
8.5	S							7	9	12	15			11	15	18
	D							7	8	11	14			6	8	11
9.0	S								8	10	13				13	16
	D								7	9	11				7	9

- Notes:**
- 1 Based on ASTM A 653 Grade 33 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





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	3.31	230	1.74	1.74	0.0194				
	0.381	4.14	230	2.17	2.17	0.0242				
	0.457	4.97	230	2.59	2.59	0.0291				
	0.610	6.62	230	3.44	3.44	0.0389				
	0.762	8.27	230	4.28	4.28	0.0487				

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
600	S	5.32	6.64	7.95	10.6	13.1	5.32	6.64	7.95	10.6	13.1	6.65	8.30	9.94	13.2	16.4
	D	7.76	9.71	11.7	15.6	19.5	8.63	23.3	28.0	37.4	46.9	4.67	18.4	22.1	29.5	36.9
700	S	3.91	4.88	5.84	7.75	9.65	3.91	4.88	5.84	7.75	9.65	4.89	6.10	7.30	9.69	12.1
	D	4.89	6.12	7.35	9.82	12.3	1.73	14.7	17.6	23.6	29.5	9.24	11.6	13.9	18.6	23.3
800	S	2.99	3.73	4.47	5.93	7.39	2.99	3.73	4.47	5.94	7.39	3.74	4.67	5.59	7.42	9.23
	D	3.27	4.10	4.92	6.58	8.24	7.86	9.84	11.8	15.8	19.8	6.19	7.75	9.30	12.4	15.6
900	S	2.37	2.95	3.53	4.69	5.84	2.37	2.95	3.53	4.69	5.84	2.96	3.69	4.42	5.86	7.29
	D	2.30	2.88	3.46	4.62	5.79	5.52	6.91	8.30	11.1	13.9	4.35	5.44	6.54	8.73	10.9
1000	S	1.92	2.39	2.86	3.80	4.73	1.92	2.39	2.86	3.80	4.73	2.40	2.99	3.58	4.75	5.91
	D	1.68	2.10	2.52	3.37	4.22	4.02	5.04	6.05	8.08	10.1	3.17	3.97	4.76	6.37	7.98
1100	S	1.58	1.98	2.36	3.14	3.91	1.58	1.98	2.37	3.14	3.91	1.98	2.47	2.96	3.92	4.88
	D	1.26	1.58	1.89	2.53	3.17	3.02	3.78	4.55	6.07	7.61	2.38	2.98	3.58	4.78	5.99
1200	S	1.33	1.66	1.99	2.64	3.28	1.33	1.66	1.99	2.64	3.28	1.66	2.07	2.48	3.30	4.10
	D	0.97	1.21	1.46	1.95	2.44	2.33	2.91	3.50	4.68	5.86	1.83	2.29	2.76	3.68	4.62
1300	S	1.13	1.41	1.69	2.25	2.80	1.13	1.41	1.69	2.25	2.80	1.42	1.77	2.12	2.81	3.50
	D	0.76	0.96	1.15	1.53	1.92	1.83	2.29	2.75	3.68	4.61	1.44	1.81	2.17	2.90	3.63
1400	S	0.98	1.22	1.46	1.94	2.41	0.98	1.22	1.46	1.94	2.41	1.22	1.52	1.83	2.42	3.01
	D	0.61	0.76	0.92	1.23	1.54	1.47	1.84	2.20	2.95	3.69	1.15	1.45	1.74	2.32	2.91
1500	S	0.85	1.06	1.27	1.69	2.10	0.85	1.06	1.27	1.69	2.10	1.06	1.33	1.59	2.11	2.63
	D	0.50	0.62	0.75	1.00	1.25	1.19	1.49	1.79	2.40	3.00	0.94	1.17	1.41	1.89	2.36
1600	S	0.75	0.93	1.12	1.48	1.85	0.75	0.93	1.12	1.48	1.85	0.94	1.17	1.40	1.85	2.31
	D	0.41	0.51	0.62	0.82	1.03	0.98	1.23	1.48	1.97	2.47	0.77	0.97	1.16	1.55	1.95
1700	S		0.83	0.99	1.31	1.64	0.66	0.83	0.99	1.31	1.64	0.83	1.03	1.24	1.64	2.04
	D		0.43	0.51	0.69	0.86	0.82	1.02	1.23	1.65	2.06	0.65	0.81	0.97	1.30	1.62
1800	S		0.74	0.88	1.17	1.46	0.59	0.74	0.88	1.17	1.46	0.74	0.92	1.10	1.47	1.82
	D		0.36	0.43	0.58	0.72	0.69	0.86	1.04	1.39	1.74	0.54	0.68	0.82	1.09	1.37
1900	S			0.79	1.05	1.31	0.53	0.66	0.79	1.05	1.31	0.66	0.83	0.99	1.32	1.64
	D			0.37	0.49	0.62	0.59	0.73	0.9	1.18	1.48	0.46	0.58	0.69	0.93	1.16
2000	S				0.95	1.18	0.48	0.60	0.72	0.95	1.18	0.60	0.75	0.89	1.19	1.48
	D				0.42	0.53	0.50	0.63	0.76	1.01	1.27	0.40	0.50	0.60	0.80	1.00
2100	S				0.86	1.07	0.43	0.54	0.65	0.86	1.07		0.68	0.81	1.08	1.34
	D				0.36	0.46	0.43	0.54	0.65	0.87	1.09		0.43	0.51	0.69	0.86
2200	S				0.98	0.40	0.49	0.59	0.78	0.98			0.62	0.74	0.98	1.22
	D				0.40	0.38	0.47	0.57	0.76	0.95			0.37	0.45	0.60	0.75

- 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

