

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 (in⁴)	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	0.61	33	0.0056	0.0049	0.00212	26.0	6.50	52.3	8.89
	0.015	0.75	33	0.0070	0.0063	0.00265	41.6	10.4	83.0	14.1
	0.018	0.88	33	0.0083	0.0077	0.00317	61.0	15.3	121	20.6
	0.024	1.16	33	0.0109	0.0104	0.00420	111	27.8	219	37.2
	0.030	1.43	33	0.0134	0.0130	0.00521	177	44.2	346	58.8

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

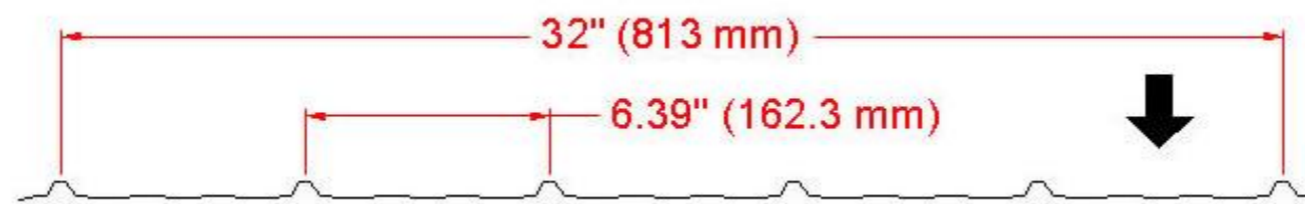
MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (in.)		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
12	S	74	92	110	144	178	65	83	101	137	172	81	104	126	171	215
	D	206	256	307	407	505	494	616	736	976	1213	389	485	580	769	955
16	S	42	52	62	81	100	36	47	57	77	97	45	58	71	96	121
	D	87	108	129	172	213	208	260	311	412	512	164	205	245	324	403
24	S	19	23	27	36	44	16	21	25	34	43	20	26	32	43	54
	D	26	32	38	51	63	62	77	92	122	152	49	61	72	96	119
30	S	12	15	18	23	28	10	13	16	22	28	13	17	20	27	34
	D	13	16	20	26	32	32	39	47	62	78	25	31	37	49	61
36	S	8	10	12	16	20	7	9	11	15	19	9	12	14	19	24
	D	8	9	11	15	19	18	23	27	36	45	14	18	21	28	35
42	S		8	9	12	14	5	7	8	11	14	7	8	10	14	18
	D		6	7	9	12	12	14	17	23	28	9	11	14	18	22
48	S				9	11		5	6	9	11	5	6	8	11	13
	D				6	8		10	12	15	19	6	8	9	12	15

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





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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	2.97	230	0.302	0.263	0.0029	0.383	0.096	0.771	0.131
	0.381	3.64	230	0.375	0.338	0.0036	0.614	0.154	1.23	0.208
	0.457	4.31	230	0.446	0.412	0.0043	0.900	0.225	1.79	0.303
	0.610	5.66	230	0.587	0.558	0.0057	1.64	0.410	3.23	0.549
	0.762	7.00	230	0.723	0.700	0.0071	2.61	0.652	5.10	0.867

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	3.70	4.60	5.48	7.20	8.87	3.23	4.14	5.05	6.85	8.59	4.04	5.18	6.31	8.56	10.7
	D	10.3	12.9	15.4	20.4	25.4	24.8	30.9	37.0	49.0	60.9	19.5	24.3	29.1	38.6	48.0
400	S	2.08	2.59	3.08	4.05	4.99	1.82	2.33	2.84	3.85	4.83	2.27	2.91	3.55	4.81	6.04
	D	4.36	5.43	6.50	8.62	10.7	10.5	13.0	15.6	20.7	25.7	8.24	10.3	12.3	16.3	20.2
500	S	1.33	1.65	1.97	2.59	3.19	1.16	1.49	1.82	2.46	3.09	1.45	1.86	2.27	3.08	3.87
	D	2.23	2.78	3.33	4.41	5.48	5.36	6.68	7.99	10.6	13.2	4.22	5.26	6.29	8.34	10.4
600	S	0.93	1.15	1.37	1.80	2.22	0.81	1.04	1.26	1.71	2.15	1.01	1.29	1.58	2.14	2.68
	D	1.29	1.61	1.93	2.55	3.17	3.10	3.86	4.62	6.13	7.61	2.44	3.04	3.64	4.82	5.99
700	S	0.68	0.84	1.01	1.32	1.63	0.59	0.76	0.93	1.26	1.58	0.74	0.95	1.16	1.57	1.97
	D	0.81	1.01	1.21	1.61	2.00	1.95	2.43	2.91	3.86	4.79	1.54	1.92	2.29	3.04	3.78
800	S	0.52	0.65	0.77	1.01	1.25	0.45	0.58	0.71	0.96	1.21	0.57	0.73	0.89	1.20	1.51
	D	0.54	0.68	0.81	1.08	1.34	1.31	1.63	1.95	2.58	3.21	1.03	1.28	1.54	2.04	2.53
900	S	0.41	0.51	0.61	0.80	0.99	0.36	0.46	0.56	0.76	0.95	0.45	0.58	0.70	0.95	1.19
	D	0.38	0.48	0.57	0.76	0.94	0.92	1.14	1.37	1.82	2.26	0.72	0.90	1.08	1.43	1.78
1000	S	0.33	0.41	0.49	0.65	0.80	0.29	0.37	0.45	0.62	0.77	0.36	0.47	0.57	0.77	0.97
	D	0.28	0.35	0.42	0.55	0.69	0.67	0.83	1.00	1.32	1.64	0.53	0.66	0.79	1.04	1.29
1100	S	0.28	0.34	0.41	0.54	0.66	0.24	0.31	0.38	0.51	0.64	0.30	0.38	0.47	0.64	0.80
	D	0.21	0.26	0.31	0.41	0.51	0.50	0.63	0.75	0.99	1.24	0.40	0.49	0.59	0.78	0.97
1200	S		0.29	0.34	0.45	0.55	0.20	0.26	0.32	0.43	0.54	0.25	0.32	0.39	0.53	0.67
	D		0.20	0.24	0.32	0.40	0.39	0.48	0.58	0.77	0.95	0.31	0.38	0.46	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

