

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	0.63	33	0.0088	0.0086	0.0041	25.0	6.24	45.5	7.74
	0.015	0.77	33	0.0124	0.0124	0.0057	40.2	10.0	73.6	12.5
	0.018	0.91	33	0.0166	0.0166	0.0075	59.1	14.8	109	18.5
	0.024	1.20	33	0.0261	0.0268	0.0113	108	27.0	199	33.9
	0.030	1.49	33	0.0370	0.0388	0.0150	172	43.1	319	54.1

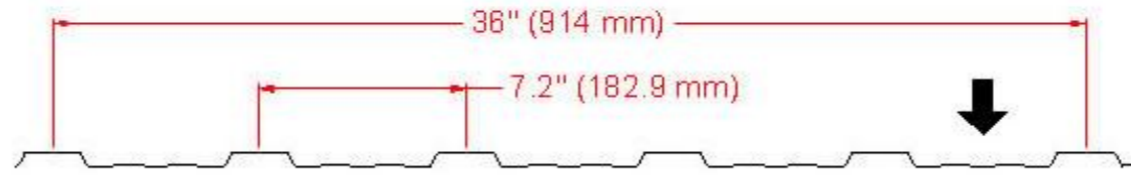
Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

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
1.0	S	124	176	235	369	523	122	175	235	379	548	153	218	294	473	685
	D	473	664	873	1311	1739	1136	1592	2096	3145	4174	895	1254	1650	2477	3287
1.33	S	70	99	133	209	295	69	99	133	214	310	86	123	166	268	387
	D	201	282	371	557	739	483	677	891	1337	1774	380	533	701	1053	1397
1.5	S	55	78	104	164	232	54	78	105	168	244	68	97	131	210	305
	D	140	197	259	388	515	337	472	621	932	1237	265	372	489	734	974
2.0	S	31	44	59	92	131	31	44	59	95	137	38	55	74	118	171
	D	59	83	109	164	217	142	199	262	393	522	112	157	206	310	411
2.5	S	20	28	38	59	84	20	28	38	61	88	24	35	47	76	110
	D	30	42	56	84	111	73	102	134	201	267	57	80	106	159	210
3.0	S	14	20	26	41	58	14	19	26	42	61	17	24	33	53	76
	D	18	25	32	49	64	42	59	78	116	155	33	46	61	92	122
3.5	S	10	14	19	30	43	10	14	19	31	45	12	18	24	39	56
	D	11	15	20	31	41	26	37	49	73	97	21	29	38	58	77
4.0	S	8	11	15	23	33	8	11	15	24	34	10	14	18	30	43
	D	7	10	14	20	27	18	25	33	49	65	14	20	26	39	51
4.5	S	6	9	12	18	26	6	9	12	19	27	8	11	15	23	34
	D	5	7	10	14	19	12	17	23	35	46	10	14	18	27	36
5.0	S		7	9	15	21	0	7	9	15	22	6	9	12	19	27
	D			7	10	14	0	13	17	25	33	7	10	13	20	26

- 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	3.07	230	0.471	0.463	0.0055	0.368	0.092	0.672	0.114
	0.381	3.76	230	0.667	0.662	0.0078	0.592	0.148	1.09	0.184
	0.457	4.46	230	0.889	0.891	0.0102	0.871	0.218	1.60	0.272
	0.610	5.86	230	1.40	1.43	0.0154	1.60	0.399	2.94	0.500
	0.762	7.25	230	1.98	2.08	0.0204	2.54	0.636	4.70	0.799

Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (m)		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
0.5	S	2.23	3.16	4.21	6.62	9.37	2.19	3.13	4.22	6.79	9.82	2.74	3.92	5.27	8.48	12.3
	D	5.12	7.18	9.45	14.2	18.8	12.3	17.2	22.7	34.1	45.2	9.68	13.6	17.9	26.8	35.6
0.6	S	1.55	2.19	2.92	4.60	6.51	1.52	2.18	2.93	4.71	6.82	1.90	2.72	3.66	5.89	8.53
	D	2.96	4.15	5.47	8.21	10.9	7.11	10.0	13.1	19.7	26.2	5.60	7.85	10.3	15.5	20.6
0.8	S	0.87	1.23	1.64	2.59	3.66	0.86	1.22	1.65	2.65	3.84	1.07	1.53	2.06	3.31	4.80
	D	1.25	1.75	2.31	3.46	4.60	3.00	4.21	5.53	8.31	11.0	2.36	3.31	4.36	6.55	8.69
1.0	S	0.56	0.79	1.05	1.66	2.34	0.55	0.78	1.05	1.70	2.46	0.68	0.98	1.32	2.12	3.07
	D	0.64	0.90	1.18	1.77	2.36	1.54	2.15	2.83	4.26	5.65	1.21	1.70	2.23	3.35	4.45
1.2	S	0.39	0.55	0.73	1.15	1.63	0.38	0.54	0.73	1.18	1.71	0.48	0.68	0.92	1.47	2.13
	D	0.37	0.52	0.68	1.03	1.36	0.89	1.25	1.64	2.46	3.27	0.70	0.98	1.29	1.94	2.58
1.4	S	0.28	0.40	0.54	0.84	1.20	0.28	0.40	0.54	0.87	1.25	0.35	0.50	0.67	1.08	1.57
	D	0.23	0.33	0.43	0.65	0.86	0.56	0.78	1.03	1.55	2.06	0.44	0.62	0.81	1.22	1.62
1.5	S		0.35	0.47	0.74	1.04	0.24	0.35	0.47	0.75	1.09	0.30	0.44	0.59	0.94	1.36
	D		0.27	0.35	0.53	0.70	0.46	0.64	0.84	1.26	1.67	0.36	0.50	0.66	0.99	1.32

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

