

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	0.0196	0.0214	0.0092	21.5	5.38	42.8	7.27
	0.015	0.77	33	0.0272	0.0289	0.0128	35.1	8.77	69.2	11.8
	0.018	0.91	33	0.0354	0.0369	0.0172	52.0	13.0	102	17.4
	0.024	1.20	33	0.0489	0.0537	0.0254	96.4	24.1	188	32.0
	0.030	1.49	33	0.0624	0.0669	0.0337	155	38.7	301	51.1

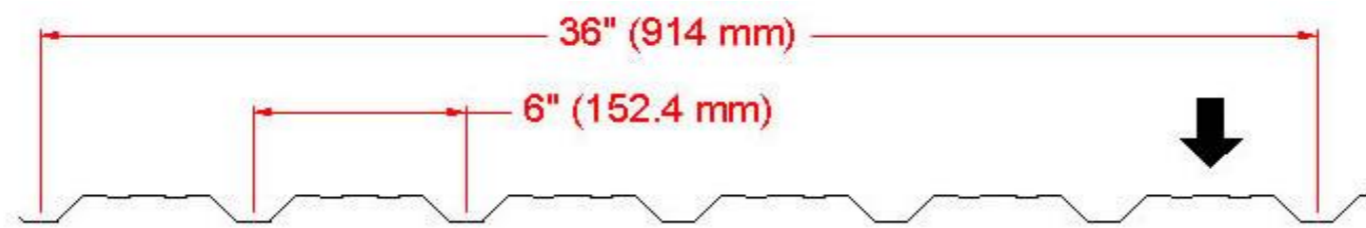
Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

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
2.0	S	69	96	125	173	221	76	102	130	190	236	94	128	163	237	296
	D	134	185	250	369	490	323	445	600	886	1176	254	350	472	697	926
2.5	S	44	62	80	111	141	48	65	83	122	151	60	82	104	152	189
	D	69	95	128	189	251	165	228	307	453	602	130	179	242	357	474
3.0	S	31	43	56	77	98	34	45	58	84	105	42	57	72	106	131
	D	40	55	74	109	145	96	132	178	262	348	75	104	140	207	274
3.5	S	23	31	41	56	72	25	33	43	62	77	31	42	53	78	96
	D	25	35	47	69	91	60	83	112	165	219	47	65	88	130	173
4.0	S	17	24	31	43	55	19	26	33	47	59	24	32	41	59	74
	D	17	23	31	46	61	40	56	75	111	147	32	44	59	87	116
4.5	S	14	19	25	34	44	15	20	26	38	47	19	25	32	47	58
	D	12	16	22	32	43	28	39	53	78	103	22	31	41	61	81
5.0	S	11	15	20	28	35	12	16	21	30	38	15	20	26	38	47
	D	9	12	16	24	31	21	28	38	57	75	16	22	30	45	59
5.5	S	9	13	17	23	29	10	13	17	25	31	12	17	22	31	39
	D	6	9	12	18	24	16	21	29	43	57	12	17	23	34	45
6.0	S		11	14	19	25	8	11	14	21	26	10	14	18	26	33
	D		7	9	14	18	12	16	22	33	44	9	13	17	26	34
6.5	S		9	12	16	21	7	10	12	18	22	9	12	15	22	28
	D			7	11	14	9	13	17	26	34	7	10	14	20	27

- 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	1.05	1.15	0.0126	0.318	0.079	0.631	0.107
	0.381	3.76	230	1.46	1.55	0.0174	0.517	0.129	1.02	0.174
	0.457	4.46	230	1.90	1.98	0.0234	0.768	0.192	1.51	0.256
	0.610	5.86	230	2.63	2.88	0.0346	1.42	0.356	2.78	0.472
	0.762	7.25	230	3.36	3.60	0.0460	2.28	0.571	4.44	0.754

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	4.97	6.90	9.01	12.42	15.9	5.42	7.33	9.37	13.6	17.0	6.78	9.16	11.7	17.1	21.3
	D	11.6	16.1	21.6	32.0	42.5	27.9	38.5	51.9	76.7	102	22.0	30.3	40.9	60.4	80.3
0.6	S	3.45	4.79	6.26	8.62	11.0	3.77	5.09	6.50	9.47	11.8	4.71	6.36	8.13	11.8	14.8
	D	6.73	9.29	12.5	18.5	24.6	16.2	22.3	30.1	44.4	59.0	12.7	17.6	23.7	35.0	46.5
0.8	S	1.94	2.70	3.52	4.85	6.20	2.12	2.86	3.66	5.33	6.64	2.65	3.58	4.57	6.66	8.31
	D	2.84	3.92	5.28	7.80	10.4	6.82	9.40	12.7	18.7	24.9	5.37	7.40	10.0	14.8	19.6
1.0	S	1.24	1.73	2.25	3.10	3.97	1.36	1.83	2.34	3.41	4.25	1.70	2.29	2.93	4.26	5.32
	D	1.45	2.01	2.70	3.99	5.31	3.49	4.8	6.49	9.59	12.7	2.75	3.79	5.11	7.55	10.0
1.2	S	0.86	1.20	1.56	2.16	2.76	0.94	1.27	1.63	2.37	2.95	1.18	1.59	2.03	2.96	3.69
	D	0.84	1.16	1.56	2.31	3.07	2.02	2.79	3.76	5.55	7.37	1.59	2.19	2.96	4.37	5.81
1.4	S	0.63	0.88	1.15	1.58	2.02	0.69	0.94	1.19	1.74	2.17	0.86	1.17	1.49	2.18	2.71
	D	0.53	0.73	0.99	1.46	1.93	1.27	1.75	2.37	3.49	4.64	1.00	1.38	1.86	2.75	3.66
1.5	S	0.55	0.77	1.00	1.38	1.76	0.60	0.81	1.04	1.52	1.89	0.75	1.02	1.30	1.89	2.36
	D	0.43	0.59	0.80	1.18	1.57	1.03	1.43	1.92	2.84	3.77	0.81	1.12	1.51	2.24	2.97
1.6	S	0.49	0.67	0.88	1.21	1.55	0.53	0.72	0.91	1.33	1.66	0.66	0.89	1.14	1.67	2.08
	D	0.36	0.49	0.66	0.98	1.30	0.85	1.18	1.58	2.34	3.11	0.67	0.93	1.25	1.84	2.45
1.8	S	0.38	0.53	0.70	0.96	1.22	0.42	0.57	0.72	1.05	1.31	0.52	0.71	0.90	1.32	1.64
	D	0.25	0.34	0.46	0.69	0.91	0.60	0.83	1.11	1.64	2.18	0.47	0.65	0.88	1.29	1.72
2.0	S		0.43	0.56	0.78	0.99	0.34	0.46	0.59	0.85	1.06	0.42	0.57	0.73	1.07	1.33
	D		0.25	0.34	0.50	0.66	0.44	0.60	0.81	1.20	1.59	0.34	0.47	0.64	0.94	1.25

- 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

