

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)					
	0.013	0.66	80	0.0119	0.0101	0.00760	34.4	8.60	63.0	10.7
	0.0135	0.68	80	0.0125	0.0105	0.00780	37.4	9.34	68.5	11.6
	0.015	0.75	80	0.0142	0.0118	0.00870	46.9	11.7	86.2	14.7
	0.018	0.89	80	0.0175	0.0145	0.0104	69.5	17.4	128	21.8
	0.024	1.17	80	0.0231	0.0200	0.0139	128	32.1	238	40.4

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

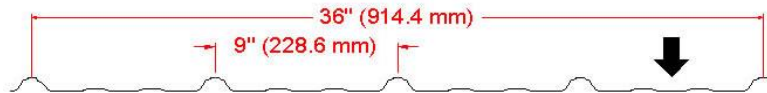
MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

SPAN LENGTH (in.)		1-SPAN					2-SPAN					3-SPAN				
		BASE STEEL THICKNESS (inches)					BASE STEEL THICKNESS (inches)					BASE STEEL THICKNESS (inches)				
		0.013	0.0135	0.015	0.018	0.024	0.013	0.0135	0.015	0.018	0.024	0.013	0.0135	0.015	0.018	0.024
12	S	283	297	338	416	550	240	250	282	345	476	300	313	352	432	595
	D	732	760	844	1011	1344	1757	1824	2025	2427	3225	1384	1437	1595	1911	2540
16	S	159	167	190	234	310	135	141	158	194	268	169	176	198	243	335
	D	309	321	356	427	567	741	770	854	1024	1361	584	606	673	806	1072
24	S	71	74	85	104	138	60	63	70	86	119	75	78	88	108	149
	D	92	95	105	126	168	220	228	253	303	403	173	180	199	239	317
30	S	45	47	54	67	88	38	40	45	55	76	48	50	56	69	95
	D	47	49	54	65	86	112	117	130	155	206	89	92	102	122	163
36	S	31	33	38	46	61	27	28	31	38	53	33	35	39	48	66
	D	27	28	31	37	50	65	68	75	90	119	51	53	59	71	94
42	S	23	24	28	34	45	20	20	23	28	39	24	26	29	35	49
	D	17	18	20	24	31	41	43	47	57	75	32	34	37	45	59
48	S	18	19	21	26	34	15	16	18	22	30	19	20	22	27	37
	D	11	12	13	16	21	27	29	32	38	50	22	22	25	30	40

- Notes:**
- 1 Based on ASTM A 653 Grade 80 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 ⁸ 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)					
	0.330	3.21	550	0.640	0.542	0.0103	0.502	0.126	0.920	0.156
	0.343	3.32	550	0.671	0.566	0.0107	0.545	0.136	1.00	0.170
	0.381	3.66	550	0.764	0.636	0.0119	0.685	0.171	1.26	0.214
	0.457	4.34	550	0.941	0.781	0.0142	1.01	0.254	1.87	0.318
	0.610	5.69	550	1.24	1.08	0.0189	1.87	0.469	3.47	0.590

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)				
		0.330	0.343	0.381	0.457	0.610	0.330	0.343	0.381	0.457	0.610	0.330	0.343	0.381	0.457	0.610
600	S	3.50	3.67	4.18	5.14	6.80	2.96	3.09	3.48	4.27	5.89	3.70	3.86	4.35	5.34	7.36
	D	4.60	4.77	5.30	6.35	8.44	11.0	11.5	12.7	15.2	20.3	8.69	9.02	10.0	12.0	15.9
800	S	1.97	2.06	2.35	2.89	3.82	1.67	1.74	1.96	2.40	3.31	2.08	2.17	2.45	3.00	4.14
	D	1.94	2.01	2.23	2.68	3.56	4.65	4.83	5.36	6.43	8.54	3.66	3.80	4.22	5.06	6.73
1000	S	1.26	1.32	1.50	1.85	2.45	1.07	1.11	1.25	1.54	2.12	1.33	1.39	1.57	1.92	2.65
	D	0.99	1.03	1.14	1.37	1.82	2.38	2.47	2.75	3.29	4.37	1.88	1.95	2.16	2.59	3.44
1200	S	0.87	0.92	1.04	1.29	1.70	0.74	0.77	0.87	1.07	1.47	0.93	0.97	1.09	1.33	1.84
	D	0.57	0.60	0.66	0.79	1.05	1.38	1.43	1.59	1.90	2.53	1.09	1.13	1.25	1.50	1.99
1400	S	0.64	0.67	0.77	0.94	1.25	0.54	0.57	0.64	0.78	1.08	0.68	0.71	0.80	0.98	1.35
	D	0.36	0.38	0.42	0.50	0.66	0.87	0.90	1.00	1.20	1.59	0.68	0.71	0.79	0.94	1.26
1500	S	0.56	0.59	0.67	0.82	1.09	0.47	0.49	0.56	0.68	0.94	0.59	0.62	0.70	0.85	1.18
	D	0.29	0.31	0.34	0.41	0.54	0.71	0.73	0.81	0.97	1.30	0.56	0.58	0.64	0.77	1.02
1600	S	0.49	0.52	0.59	0.72	0.96	0.42	0.43	0.49	0.60	0.83	0.52	0.54	0.61	0.75	1.03
	D	0.24	0.25	0.28	0.33	0.44	0.58	0.60	0.67	0.80	1.07	0.46	0.48	0.53	0.63	0.84
1800	S				0.57	0.76	0.33	0.34	0.39	0.47	0.65	0.41	0.43	0.48	0.59	0.82
	D				0.24	0.31	0.41	0.42	0.47	0.56	0.75	0.32	0.33	0.37	0.44	0.59
2000	S					0.61	0.27	0.28	0.31	0.38	0.53	0.33	0.35	0.39	0.48	0.66
	D					0.23	0.30	0.31	0.34	0.41	0.55	0.23	0.24	0.27	0.32	0.43
2200	S						0.22	0.23	0.26	0.32	0.44			0.32	0.40	0.55
	D						0.22	0.23	0.26	0.31	0.41			0.20	0.24	0.32

- Notes:**
- 1 Based on ASTM A 653M Grade 550 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.

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