

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	0.0149	0.0133	0.0053	45.7	11.4	80.1	13.6
	0.015	0.77	33	0.0185	0.0170	0.0066	73.7	18.4	131	22.2
	0.018	0.91	33	0.0220	0.0207	0.0079	109	27.2	194	33.0
	0.024	1.20	33	0.0290	0.0281	0.0105	200	49.9	360	61.1
	0.030	1.49	33	0.0357	0.0352	0.0131	319	79.7	577	98.2

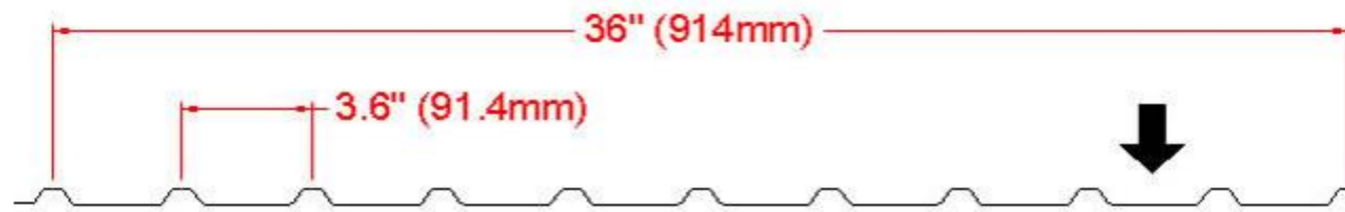
Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

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	210	261	311	410	505	188	240	293	397	499	235	301	366	496	623
	D	615	767	919	1220	1518	1476	1842	2205	2928	3644	1163	1450	1737	2305	2869
1.33	S	119	148	176	232	286	106	136	166	224	282	133	170	207	280	352
	D	261	326	391	518	645	628	783	937	1244	1549	494	616	738	980	1220
1.5	S	93	116	138	182	225	84	107	130	176	222	105	134	163	221	277
	D	182	227	272	361	450	437	546	653	867	1080	344	430	515	683	850
2.0	S	53	65	78	102	126	47	60	73	99	125	59	75	92	124	156
	D	77	96	115	152	190	185	230	276	366	455	145	181	217	288	359
2.5	S	34	42	50	66	81	30	38	47	64	80	38	48	59	79	100
	D	39	49	59	78	97	94	118	141	187	233	74	93	111	148	184
3.0	S	23	29	35	46	56	21	27	33	44	55	26	33	41	55	69
	D	23	28	34	45	56	55	68	82	108	135	43	54	64	85	106
3.5	S	17	21	25	33	41	15	20	24	32	41	19	25	30	41	51
	D	14	18	21	28	35	34	43	51	68	85	27	34	41	54	67
4.0	S	13	16	19	26	32	12	15	18	25	31	15	19	23	31	39
	D	10	12	14	19	24	23	29	34	46	57	18	23	27	36	45
4.5	S	10	13	15	20	25	9	12	14	20	25	12	15	18	25	31
	D	7	8	10	13	17	16	20	24	32	40	13	16	19	25	31
5.0	S		10	12	16	20	8	10	12	16	20	9	12	15	20	25
	D		6	7	10	12	12	15	18	23	29	9	12	14	18	23

- 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	3.07	230	0.799	0.715	0.0072	0.674	0.168	1.18	0.201
	0.381	3.76	230	0.993	0.913	0.0090	1.09	0.272	1.93	0.328
	0.457	4.46	230	1.18	1.11	0.0108	1.60	0.401	2.86	0.487
	0.610	5.86	230	1.56	1.51	0.0143	2.95	0.736	5.30	0.902
	0.762	7.25	230	1.92	1.89	0.0178	4.70	1.18	8.52	1.45

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	3.78	4.70	5.60	7.37	9.09	3.38	4.32	5.26	7.14	8.96	4.23	5.40	6.58	8.92	11.2
	D	6.67	8.32	9.97	13.2	16.5	16.0	20.0	23.9	31.8	39.5	12.6	15.7	18.8	25.0	31.1
0.6	S	2.63	3.26	3.89	5.12	6.31	2.35	3.00	3.66	4.96	6.22	2.94	3.75	4.57	6.19	7.78
	D	3.86	4.82	5.77	7.66	9.53	9.27	11.6	13.8	18.4	22.9	7.30	9.10	10.9	14.5	18.0
0.8	S	1.48	1.83	2.19	2.88	3.55	1.32	1.69	2.06	2.79	3.50	1.65	2.11	2.57	3.48	4.38
	D	1.63	2.03	2.43	3.23	4.02	3.91	4.88	5.84	7.75	9.65	3.08	3.84	4.60	6.10	7.60
1.0	S	0.95	1.17	1.40	1.84	2.27	0.85	1.08	1.32	1.78	2.24	1.06	1.35	1.64	2.23	2.80
	D	0.83	1.04	1.25	1.65	2.06	2.00	2.50	2.99	3.97	4.94	1.58	1.97	2.35	3.13	3.89
1.2	S	0.66	0.82	0.97	1.28	1.58	0.59	0.75	0.91	1.24	1.56	0.73	0.94	1.14	1.55	1.95
	D	0.48	0.60	0.72	0.96	1.19	1.16	1.44	1.73	2.30	2.86	0.91	1.14	1.36	1.81	2.25
1.4	S	0.48	0.60	0.71	0.94	1.16	0.43	0.55	0.67	0.91	1.14	0.54	0.69	0.84	1.14	1.43
	D	0.30	0.38	0.45	0.60	0.75	0.73	0.91	1.09	1.45	1.80	0.57	0.72	0.86	1.14	1.42
1.5	S	0.42	0.52	0.62	0.82	1.01	0.38	0.48	0.58	0.79	1.00	0.47	0.60	0.73	0.99	1.24
	D	0.25	0.31	0.37	0.49	0.61	0.59	0.74	0.89	1.18	1.46	0.47	0.58	0.70	0.93	1.15

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

