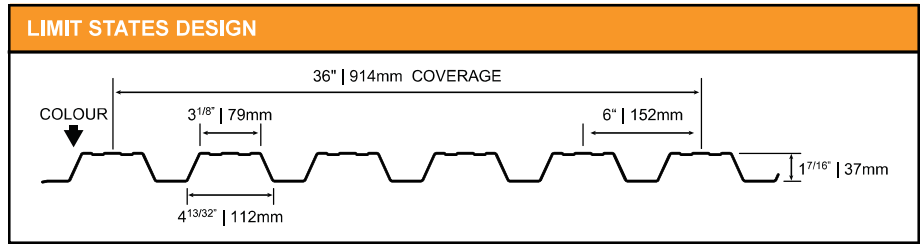


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.



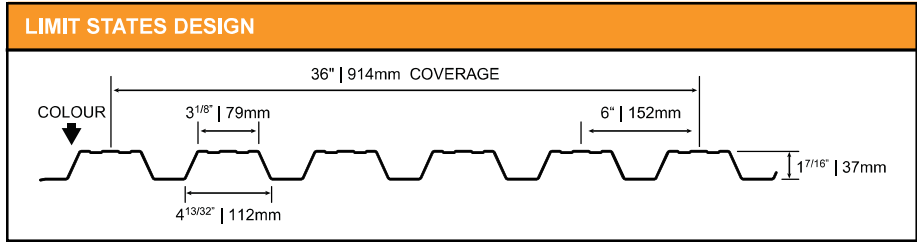
SECTION PROPERTIES   Per Foot of Width									
Base Steel Thickness (inches)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in <sup>4</sup> )	Specified Web Crippling Data			
			Midspan (in <sup>3</sup> )	Support (in <sup>3</sup> )		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi1 Interior (lb)
0.0180	1.04	33	0.0847	0.0884	0.0754	58.0	14.5	111	18.8
0.0180	1.04	50	0.0778	0.0822	0.0707	87.8	22.0	168	28.5
0.0240	1.36	33	0.128	0.130	0.114	109	27.2	207	35.2
0.0300	1.69	33	0.175	0.176	0.152	176	44.0	335	56.9

LLF = 1.50; IMPF = 0.90; NORMAL OCCUPANCY = 1.0

LOAD TABLE   Maximum Uniformly Distributed Specified Loads (psf).															
Span Length (ft)		1-Span Base Steel Thickness (inches)				2-Span Base Steel Thickness (inches)				3-Span Base Steel Thickness (inches)					
		0.0180	0.0180	0.0240	0.0300	0.0180	0.0180	0.0240	0.0300	0.0135	0.0180	0.0240	0.0300		
Y.S.* (ksi)		33	50	33	33										
4.0	S	70	97	106	144										
4.0	D	114	107	173	230										
4.5	S	55	77	84	114										
4.5	D	80	75	121	161										
5.0	S	45	62	68	92										
5.0	D	58	55	88	118										
5.5	S	37	51	56	76										
5.5	D	44	41	66	88										
6.0	S	31	43	47	64										
6.0	D	34	32	51	68										
6.5	S	26	37	40	55										
6.5	D	27	25	40	54										
7.0	S	23	32	35	47										
7.0	D	21	20	32	43										
7.5	S	20	28	30	41										
7.5	D	17	16	26	35										
8.0	S	17	24	26	36										
8.0	D	14	13	22	29										
8.5	S	15	22	23	32										
8.5	D	12	11	18	24										
9.0	S	14	19	21	28										
9.0	D	10	9	15	20										
9.5	S	12	17	19	26										
9.5	D	9	8	13	17										
10.0	S	11	16	17	23										
10.0	D	7	7	11	15										

\*Y.S. = Yield Strength

1. Based on ASTM A 653 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 calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.



SECTION PROPERTIES   Per Metre of Width									
Base Steel Thickness (mm)	Mass [Z275] (kg/m <sup>2</sup> )	Yield Stress (MPa)	Section Modulus		Deflection Moment of Inertia (x10 <sup>6</sup> mm <sup>4</sup> )	Specified Web Crippling Data			
			Midspan (x10 <sup>3</sup> mm <sup>3</sup> )	Support (x10 <sup>3</sup> mm <sup>3</sup> )		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi1 Interior (kN)
0.457	5.06	230	4.54	4.74	0.103	0.855	0.214	1.63	0.277
0.457	5.06	345	4.18	4.42	0.0965	1.28	0.321	2.45	0.416
0.610	6.66	230	6.87	7.00	0.155	1.60	0.401	3.06	0.519
0.762	8.26	230	9.37	9.43	0.207	2.60	0.649	4.94	0.840

LLF = 1.50; IMPF = 0.90; NORMAL OCCUPANCY = 1.0

LOAD TABLE   Maximum Uniformly Distributed Specified Loads (kPa).													
Span Length (m)		1-Span Base Steel Thickness (mm)				2-Span Base Steel Thickness (mm)				3-Span Base Steel Thickness (mm)			
		0.457	0.457	0.610	0.762	0.457	0.457	0.610	0.762	0.457	0.457	0.610	0.762
Y.S.* (MPa)		230	345	230	230	230	345	230	230	230	345	230	230
1.0	S	5.01	6.92	7.59	10.4	5.24	7.32	7.72	10.4	6.55	9.15	9.66	13.0
1.0	D	9.89	9.29	15.0	19.9	23.7	22.3	35.9	47.8	18.7	17.6	28.3	37.6
1.2	S	3.48	4.81	5.27	7.19	3.64	5.08	5.36	7.23	4.55	6.35	6.71	9.04
1.2	D	5.72	5.38	8.65	11.5	13.7	12.9	20.8	27.7	10.8	10.2	16.4	21.8
1.4	S	2.56	3.53	3.87	5.28	2.67	3.73	3.94	5.31	3.34	4.67	4.93	6.64
1.4	D	3.60	3.39	5.45	7.26	8.65	8.12	13.1	17.4	6.81	6.40	10.3	13.7
1.6	S	1.96	2.70	2.96	4.04	2.05	2.86	3.02	4.07	2.56	3.57	3.77	5.08
1.6	D	2.41	2.27	3.65	4.86	5.79	5.44	8.76	11.7	4.56	4.29	6.90	9.19
1.8	S	1.55	2.14	2.34	3.19	1.62	2.26	2.38	3.21	2.02	2.82	2.98	4.02
1.8	D	1.70	1.59	2.56	3.41	4.07	3.82	6.15	8.19	3.20	3.01	4.84	6.45
2.0	S	1.25	1.73	1.90	2.59	1.31	1.83	1.93	2.60	1.64	2.29	2.41	3.25
2.0	D	1.24	1.16	1.87	2.49	2.97	2.79	4.48	5.97	2.34	2.19	3.53	4.70
2.2	S	1.04	1.43	1.57	2.14	1.08	1.51	1.60	2.15	1.35	1.89	1.99	2.69
2.2	D	0.93	0.87	1.40	1.87	2.23	2.09	3.37	4.49	1.76	1.65	2.65	3.53
2.4	S	0.87	1.20	1.32	1.80	0.91	1.27	1.34	1.81	1.14	1.59	1.68	2.26
2.4	D	0.72	0.67	1.08	1.44	1.72	1.61	2.60	3.46	1.35	1.27	2.04	2.72
2.6	S	0.74	1.02	1.12	1.53	0.77	1.08	1.14	1.54	0.97	1.35	1.43	1.93
2.6	D	0.56	0.53	0.85	1.13	1.35	1.27	2.04	2.72	1.06	1.00	1.61	2.14
2.8	S	0.64	0.88	0.97	1.32	0.67	0.93	0.99	1.33	0.83	1.17	1.23	1.66
2.8	D	0.45	0.42	0.68	0.91	1.08	1.02	1.63	2.18	0.85	0.80	1.29	1.71
3.0	S	0.56	0.77	0.84	1.15	0.58	0.81	0.86	1.16	0.73	1.02	1.07	1.45
3.0	D	0.37	0.34	0.55	0.74	0.88	0.83	1.33	1.77	0.69	0.65	1.05	1.39

\*Y.S. = Yield Strength