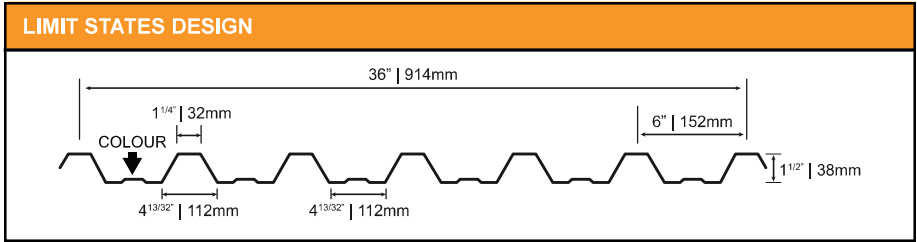


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.



SECTION PROPERTIES | Per Foot of Width

Base Steel Thickness (inches)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
			Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi1 Interior (lb)
0.0180	1.04	33	0.0942	0.0892	0.0988	58.0	14.5	113	19.1
0.0180	1.04	50	0.0886	0.0822	0.0961	87.9	22.0	171	29.0
0.0240	1.36	33	0.136	0.129	0.133	109	27.3	211	35.8

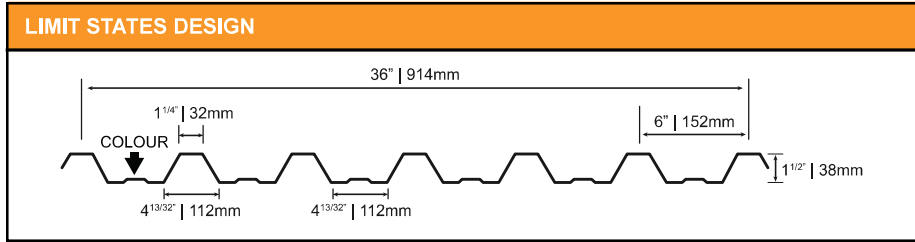
LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

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	0.0180	0.0180	0.0240	0.0180	0.0180	0.0240				
Y.S.* (ksi)		33	50	33										
3.0	S	148	211	214										
3.0	D	426	414	573										
3.5	S	109	155	157										
3.5	D	268	261	361										
4.0	S	83	119	120										
4.0	D	180	175	242										
4.5	S	66	94	95										
4.5	D	126	123	170										
5.0	S	53	76	77										
5.0	D	92	89	124										
5.5	S	44	63	64										
5.5	D	69	67	93										
6.0	S	37	53	54										
6.0	D	53	52	72										
6.5	S	32	45	46										
6.5	D	42	41	56										
7.0	S	27	39	39										
7.0	D	34	33	45										
7.5	S	24	34	34										
7.5	D	27	26	37										
8.0	S	21	30	30										
8.0	D	22	22	30										
8.5	S	18	26	27										
8.5	D	19	18	25										
9.0	S	16	23	24										
9.0	D	16	15	21										
9.5	S	15	21	21										
9.5	D	13	13	18										
10.0	S	13	19	19										
10.0	D	11	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 ²)	Yield Stress (MPa)	Section Modulus		Deflection Moment of Inertia (x10 ⁶ mm ⁴)	Specified Web Crippling Data			
			Midspan (x10 ³ mm ³)	Support (x10 ³ mm ³)		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi1 Interior (kN)
0.457	5.06	230	5.06	4.78	0.135	0.856	0.214	1.66	0.282
0.457	5.06	345	4.76	4.42	0.131	1.28	0.321	2.49	0.423
0.610	6.66	230	7.32	6.93	0.182	1.61	0.402	3.11	0.529

LLF = 1.40; IMPF = 0.75; 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				0.457	0.457	0.610				0.457	0.457	0.610			
Y.S.* (MPa)		230	345	230			230	345	230				230	345	230				
1.0	S	5.98	8.45	8.65			5.66	7.84	8.20				7.07	9.80	10.3				
1.0	D	15.6	15.2	21.0			37.4	36.4	50.3				29.4	28.6	39.6				
1.2	S	4.15	5.87	6.01			3.93	5.44	5.69				4.91	6.80	7.12				
1.2	D	9.01	8.77	12.1			21.6	21.0	29.1				17.0	16.6	22.9				
1.4	S	3.05	4.31	4.41			2.89	4.00	4.18				3.61	5.00	5.23				
1.4	D	5.67	5.52	7.64			13.6	13.3	18.3				10.7	10.4	14.4				
1.6	S	2.34	3.30	3.38			2.21	3.06	3.20				2.76	3.83	4.00				
1.6	D	3.80	3.70	5.12			9.12	8.88	12.3				7.18	6.99	9.67				
1.8	S	1.85	2.61	2.67			1.75	2.42	2.53				2.18	3.02	3.16				
1.8	D	2.67	2.60	3.60			6.41	6.24	8.63				5.05	4.91	6.79				
2.0	S	1.50	2.11	2.16			1.41	1.96	2.05				1.77	2.45	2.56				
2.0	D	1.95	1.89	2.62			4.67	4.55	6.29				3.68	3.58	4.95				
2.2	S	1.24	1.75	1.79			1.17	1.62	1.69				1.46	2.02	2.12				
2.2	D	1.46	1.42	1.97			3.51	3.42	4.73				2.76	2.69	3.72				
2.4	S	1.04	1.47	1.50			0.98	1.36	1.42				1.23	1.70	1.78				
2.4	D	1.13	1.10	1.52			2.70	2.63	3.64				2.13	2.07	2.87				
2.6	S	0.89	1.25	1.28			0.84	1.16	1.21				1.05	1.45	1.52				
2.6	D	0.89	0.86	1.19			2.13	2.07	2.86				1.67	1.63	2.25				
2.8	S	0.76	1.08	1.10			0.72	1.00	1.05				0.90	1.25	1.31				
2.8	D	0.71	0.69	0.96			1.70	1.66	2.29				1.34	1.30	1.81				
3.0	S	0.66	0.94	0.96			0.63	0.87	0.91				0.79	1.09	1.14				
3.0	D	0.58	0.56	0.78			1.38	1.35	1.86				1.09	1.06	1.47				
3.2	S	0.58	0.83	0.85			0.55	0.77	0.80				0.69	0.96	1.00				
3.2	D	0.48	0.46	0.64			1.14	1.11	1.54				0.90	0.87	1.21				
3.4	S	0.52	0.73	0.75			0.49	0.68	0.71				0.61	0.85	0.89				
3.4	D	0.40	0.39	0.53			0.95	0.93	1.28				0.75	0.73	1.01				

*Y.S. = Yield Strength