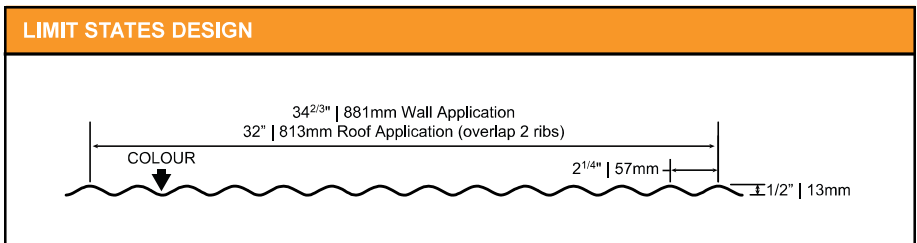


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.



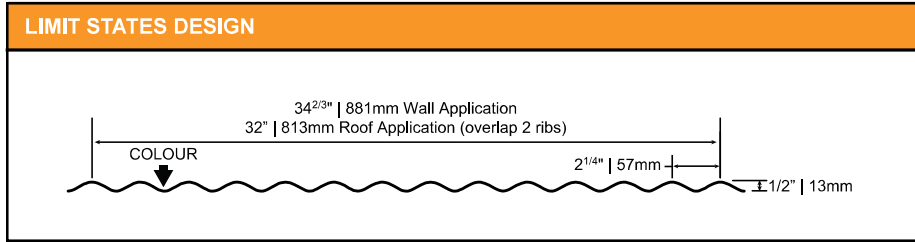
SECTION PROPERTIES Per Foot of Width									
Base Steel Thickness (inches)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
			Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi1 Interior (lb)
0.0135	0.65	80	0.0180	0.0180	0.0045				
0.0180	0.85	33	0.0235	0.0235	0.0059				
0.0180	0.85	50	0.0235	0.0235	0.0059				
0.0240	1.11	33	0.0304	0.0304	0.0076				

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)					
		0.0135	0.0180	0.0180	0.0240	0.0135	0.0180	0.0180	0.0240	0.0135	0.0180	0.0180	0.0240		
Y.S.* (ksi)		80	33	50	33					80	33	50	33		
1.5	S	192	138	209	178					192	138	209	178		
1.5	D	130	169	169	218					311	405	405	523		
2.0	S	108	77	117	100					108	78	117	100		
2.0	D	55	71	71	92					131	171	171	221		
2.5	S	69	50	75	64					69	50	75	64		
2.5	D	28	36	36	47					67	87	87	113		
3.0	S	48	34	52	45					48	34	52	45		
3.0	D	16	21	21	27					39	51	51	65		
3.5	S	35	25	38	33					35	25	38	33		
3.5	D	10	13	13	17					24	32	32	41		
4.0	S				25					27	19	29	25		
4.0	D				11					16	21	21	28		
4.5	S									21	15	23	20		
4.5	D									12	15	15	19		
5.0	S									12	19	16			20
5.0	D									11	11	14			11
5.5	S												13		
5.5	D												11		

*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)
0.343	3.17	550	0.970	0.970	0.0062				
0.457	4.13	230	1.26	1.26	0.0080				
0.457	4.13	345	1.26	1.26	0.0080				
0.610	5.42	230	1.63	1.63	0.0104				

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)				
		0.343	0.457	0.457	0.610	0.343	0.457	0.457	0.610	0.343	0.457	0.457	0.610	
Y.S.* (MPa)		550	230	345	230	550	230	345	230	550	230	345	230	
0.5	S	7.68	5.58	8.37	7.21	7.68	5.58	8.37	7.21	9.60	6.97	10.5	9.01	
0.5	D	4.74	6.18	6.18	7.98	11.4	14.8	14.8	19.2	8.96	11.7	11.7	15.1	
0.6	S	5.33	3.87	5.81	5.01	5.33	3.87	5.81	5.01	6.67	4.84	7.26	6.26	
0.6	D	2.74	3.57	3.57	4.62	6.58	8.58	8.58	11.1	5.19	6.75	6.75	8.73	
0.8	S	3.00	2.18	3.27	2.82	3.00	2.18	3.27	2.82	3.75	2.72	4.09	3.52	
0.8	D	1.16	1.51	1.51	1.95	2.78	3.62	3.62	4.68	2.19	2.85	2.85	3.68	
1.0	S	1.92	1.39	2.09	1.80	1.92	1.39	2.09	1.80	2.40	1.74	2.61	2.25	
1.0	D	0.59	0.77	0.77	1.00	1.42	1.85	1.85	2.39	1.12	1.46	1.46	1.89	
1.2	S				1.25	1.33	0.97	1.45	1.25	1.67	1.21	1.82	1.56	
1.2	D				0.58	0.82	1.07	1.07	1.39	0.65	0.84	0.84	1.09	
1.4	S					0.98	0.71	1.07	0.92		0.89	1.33	1.15	
1.4	D					0.52	0.68	0.68	0.87		0.53	0.53	0.69	
1.6	S								0.70					
1.6	D								0.58					

*Y.S. = Yield Strength