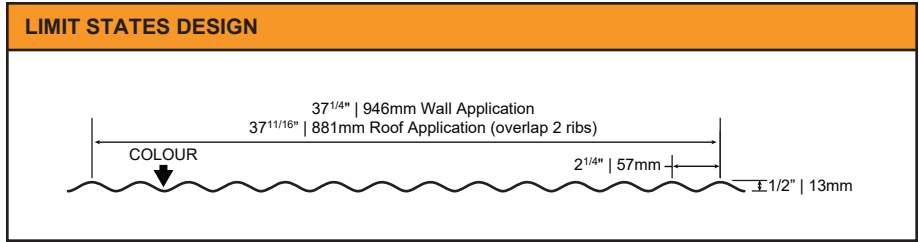


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.

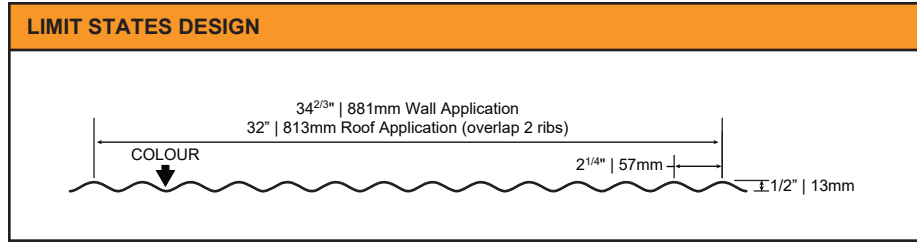


SECTION PROPERTIES   Per Foot of Width									
Base Steel Thickness (in.)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in <sup>4</sup> )	Specified Web Crippling Data			
			Midspan (in <sup>3</sup> )	Support (in <sup>3</sup> )		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
0.0180	0.85	33	0.0235	0.0235	0.0059				
0.0180	0.85	50	0.0235	0.0235	0.0059				
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 (in.)				2-Span Base Steel Thickness (in.)				3-Span Base Steel Thickness (in.)			
		0.0180	0.0180			0.0180	0.0180			0.0180	0.0180		
Y.S.* (ksi)		33	50			33	50			33	50		
1.5	S	138	209			138	209			172	261		
1.5	D	169	169			405	405			319	319		
2.0	S	77	117			78	117			97	147		
2.0	D	71	71			171	171			135	135		
2.5	S	50	75			50	75			62	94		
2.5	D	36	36			87	87			69	69		
3.0	S	34	52			34	52			43	65		
3.0	D	21	21			51	51			40	40		
3.5	S	25	38			25	38			32	48		
3.5	D	13	13			32	32			25	25		
4.0	S					19	29			24	37		
4.0	D					21	21			17	17		
4.5	S					15	23			19	29		
4.5	D					15	15			12	12		
5.0	S					12	19						
5.0	D					11	11						
5.5	S												
5.5	D												

\*Y.S. = Yield Stress

1. Based on ASTM A 653M 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 S136-16.



**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)	Pi2 Interior (kN)
0.457	4.13	230	1.26	1.26	0.0080				
0.457	4.13	345	1.26	1.26	0.0080				

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	0.457	0.457	0.457	0.457												
Y.S.* (MPa)		230	345			230	345			230	345								
0.5	S	5.58	8.37			5.58	8.37			6.97	10.5								
0.5	D	6.18	6.18			14.8	14.8			11.7	11.7								
0.6	S	3.87	5.81			3.87	5.81			4.84	7.26								
0.6	D	3.57	3.57			8.58	8.58			6.75	6.75								
0.8	S	2.18	3.27			2.18	3.27			2.72	4.09								
0.8	D	1.51	1.51			3.62	3.62			2.85	2.85								
1.0	S	1.39	2.09			1.39	2.09			1.74	2.61								
1.0	D	0.77	0.77			1.85	1.85			1.46	1.46								
1.2	S					0.97	1.45			1.21	1.82								
1.2	D					1.07	1.07			0.84	0.84								
1.4	S					0.71	1.07			0.89	1.33								
1.4	D					0.68	0.68			0.53	0.53								
1.6	S																		
1.6	D																		

\*Y.S. = Yield Stress