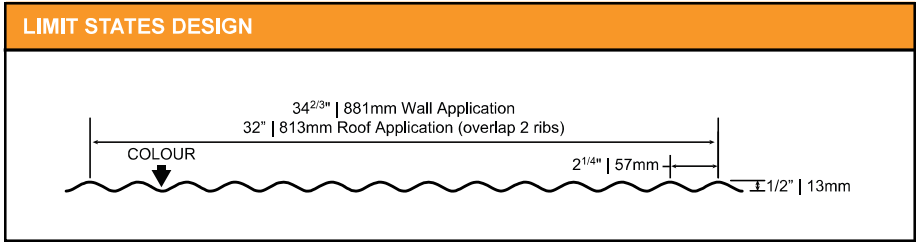


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.



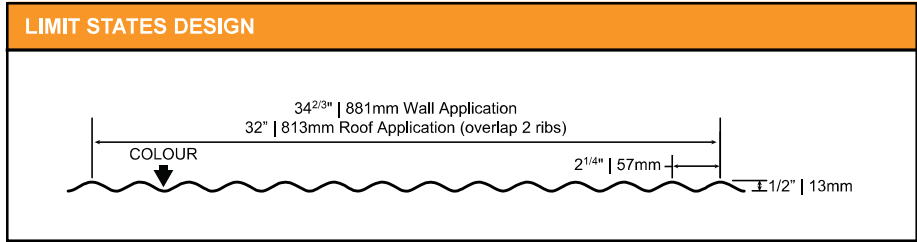
SECTION PROPERTIES Per Foot of Width									
Base Steel Thickness (inches)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
			Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi1 Interior (lb)
0.0135	0.65	80	0.0180	0.0180	0.00451				
0.0180	0.85	33	0.0235	0.0235	0.00587				
0.0180	0.85	50	0.0235	0.0235	0.00587				
0.0240	1.11	33	0.0304	0.0304	0.00759				

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

LOAD TABLE Maximum Uniformly Distributed Specified Loads (psf).																
Span Length (ft)	Y.S.* (ksi)	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			
1.5	S	206	148	224	191	206	148	224	191	258	185	280	239			
1.5	D	155	202	202	262	373	486	486	628	294	383	383	494			
2.0	S	116	83	126	107	116	83	126	107	145	104	157	134			
2.0	D	66	85	85	110	157	205	205	265	124	161	161	209			
2.5	S	74	53	81	69	74	53	81	69	93	66	101	86			
2.5	D	34	44	44	57	81	105	105	136	63	83	83	107			
3.0	S	52	37	56	48	52	37	56	48	64	46	70	60			
3.0	D	19	25	25	33	47	61	61	78	37	48	48	62			
3.5	S	38	27	41	35	38	27	41	35	47	34	51	44			
3.5	D	12	16	16	21	29	38	38	49	23	30	30	39			
4.0	S		21	31	27	29	21	31	27	36	26	39	34			
4.0	D		11	11	14	20	26	26	33	15	20	20	26			
4.5	S					23	16	25	21	29	21	31	27			
4.5	D					14	18	18	23	11	14	14	18			
5.0	S					19	13	20	17		17	25	21			
5.0	D					10	13	13	17		10	10	13			
5.5	S								14				18			
5.5	D								13				10			
6.0	S															
6.0	D															

*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 = 1.40; 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)				
		0.343	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	8.23	5.98	8.97	7.72	8.23	5.98	8.97	7.72	10.3	7.47	11.2	9.65	
0.5	D	5.69	7.41	7.41	5.58	13.7	17.8	17.8	23.0	10.8	14.0	14.0	18.1	
0.6	S	5.71	4.15	6.23	5.36	5.71	4.15	6.23	5.36	7.14	5.19	7.78	6.70	
0.6	D	3.29	4.29	4.29	5.54	7.90	10.3	10.3	13.3	6.22	8.11	8.11	10.5	
0.8	S	3.21	2.33	3.50	3.02	3.21	2.33	3.50	3.02	4.02	2.92	4.38	3.77	
0.8	D	1.39	1.81	1.81	2.34	3.33	4.34	4.34	5.61	2.63	3.42	3.42	4.42	
1.0	S	2.06	1.49	2.24	1.93	2.06	1.49	2.24	1.93	2.57	1.87	2.80	2.41	
1.0	D	0.71	0.93	0.93	1.20	1.71	2.22	2.22	2.87	1.34	1.75	1.75	2.26	
1.2	S		1.04	1.56	1.34	1.43	1.04	1.56	1.34	1.79	1.30	1.95	1.68	
1.2	D		0.54	0.54	0.69	0.99	1.29	1.29	1.66	0.78	1.01	1.01	1.31	
1.4	S					1.05	0.76	1.14	0.99		0.95	1.43	1.23	
1.4	D					0.62	0.81	0.81	1.05		0.64	0.64	0.82	
1.6	S						0.58	0.88	0.75				0.94	
1.6	D						0.54	0.54	0.70				0.55	
1.8	S													
1.8	D													

*Y.S. = Yield Strength