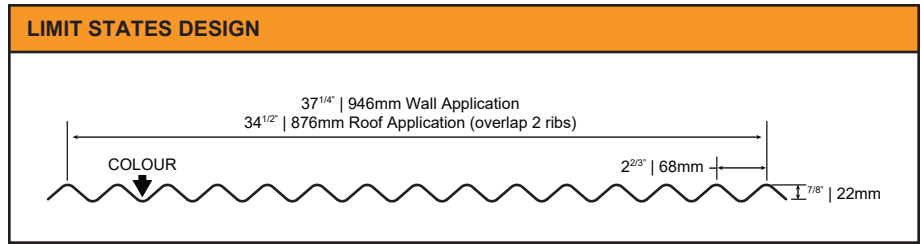


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.



SECTION PROPERTIES | Per Foot of Width

Base Steel Thickness (in.)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
			Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
0.0180	0.97	33	0.0531	0.0531	0.0233				
0.0180	0.97	50	0.0531	0.0531	0.0233				
0.0240	1.27	33	0.0697	0.0697	0.0305				
0.0300	1.58	33	0.0856	0.0856	0.0375				

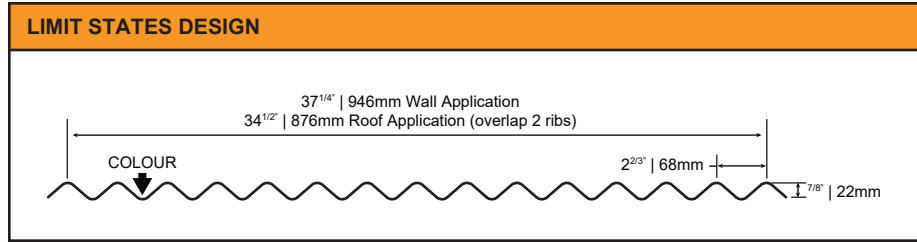
LLF = 1.50; IMPF = 0.90; NORMAL OCCUPANCY = 1.0

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	0.0240	0.0300	0.0180	0.0180	0.0240	0.0300	0.0180	0.0180	0.0240	0.0300
Y.S.* (ksi)		33	50	33	33	33	50	33	33	33	50	33	33
2.0	S	175	266	230	283	175	266	230	283	219	332	287	353
2.0	D	282	282	369	454	676	676	886	1089	532	532	698	858
2.5	S	112	170	147	181	112	170	147	181	140	213	184	226
2.5	D	144	144	189	232	346	346	454	558	273	273	357	439
3.0	S	78	118	102	126	78	118	102	126	97	148	128	157
3.0	D	83	83	109	134	200	200	263	323	158	158	207	254
3.5	S	57	87	75	92	57	87	75	92	72	108	94	115
3.5	D	53	53	69	85	126	126	165	203	99	99	130	160
4.0	S	44	66	57	71	44	66	57	71	55	83	72	88
4.0	D	35	35	46	57	85	85	111	136	67	67	87	107
4.5	S	35	52	45	56	35	52	45	56	43	66	57	70
4.5	D	25	25	32	40	59	59	78	96	47	47	61	75
5.0	S	28	43	37	45	28	43	37	45	35	53	46	57
5.0	D	18	18	24	29	43	43	57	70	34	34	45	55
5.5	S	23	35	30	37	23	35	30	37	29	44	38	47
5.5	D	14	14	18	22	33	33	43	52	26	26	34	41
6.0	S	19	30	26	31	19	30	26	31	24	37	32	39
6.0	D	10	10	14	17	25	25	33	40	20	20	26	32
6.5	S			22	27	17	25	22	27	21	31	27	33
6.5	D			11	13	20	20	26	32	16	16	20	25
7.0	S				23	14	22	19	23	18	27	23	29
7.0	D				11	16	16	21	25	12	12	16	20
7.5	S					12	19	16	20	16	24	20	25
7.5	D					13	13	17	21	10	10	13	16
8.0	S					11	17	14	18			18	22
8.0	D					11	11	14	17			11	13

*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 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)	Pi2 Interior (kN)
0.457	4.72	230	2.86	2.86	0.0317				
0.457	4.72	345	2.86	2.86	0.0317				
0.610	6.21	230	3.75	3.75	0.0416				
0.762	7.69	230	4.60	4.60	0.0512				

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	3.15	4.73	4.14	5.08		3.15	4.73	4.14	5.08	3.94	5.91	5.17	6.35
1.0	D	3.06	3.06	4.01	4.92		7.33	7.33	9.61	11.8	5.77	5.77	7.57	9.30
1.2	S	2.19	3.29	2.87	3.53		2.19	3.29	2.87	3.53	2.74	4.11	3.59	4.41
1.2	D	1.77	1.77	2.32	2.85		4.24	4.24	5.56	6.84	3.34	3.34	4.38	5.38
1.4	S	1.61	2.41	2.11	2.59		1.61	2.41	2.11	2.59	2.01	3.02	2.64	3.24
1.4	D	1.11	1.11	1.46	1.79		2.67	2.67	3.50	4.31	2.10	2.10	2.76	3.39
1.6	S	1.23	1.85	1.62	1.99		1.23	1.85	1.62	1.99	1.54	2.31	2.02	2.48
1.6	D	0.75	0.75	0.98	1.20		1.79	1.79	2.35	2.88	1.41	1.41	1.85	2.27
1.8	S	0.97	1.46	1.28	1.57		0.97	1.46	1.28	1.57	1.22	1.83	1.60	1.96
1.8	D	0.52	0.52	0.69	0.84		1.26	1.26	1.65	2.03	0.99	0.99	1.30	1.60
2.0	S			1.03	1.27		0.79	1.18	1.03	1.27	0.99	1.48	1.29	1.59
2.0	D			0.50	0.62		0.92	0.92	1.20	1.48	0.72	0.72	0.95	1.16
2.2	S						0.65	0.98	0.85	1.05	0.81	1.22	1.07	1.31
2.2	D						0.69	0.69	0.90	1.11	0.54	0.54	0.71	0.87
2.4	S						0.55	0.82	0.72	0.88			0.90	1.10
2.4	D						0.53	0.53	0.70	0.85			0.55	0.67
2.6	S								0.61	0.75				0.94
2.6	D								0.55	0.67				0.53
2.8	S									0.65				
2.8	D									0.54				

*Y.S. = Yield Stress