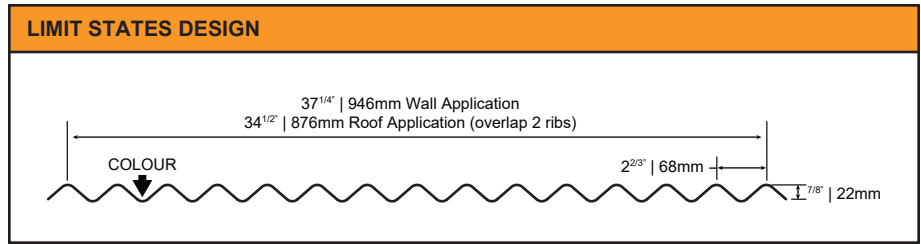


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.



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	0.0232				
0.0180	0.97	50	0.0531	0.0531	0.0232				
0.0240	1.27	33	0.0697	0.0697	0.0305				
0.0300	1.58	33	0.0856	0.0856	0.0375				

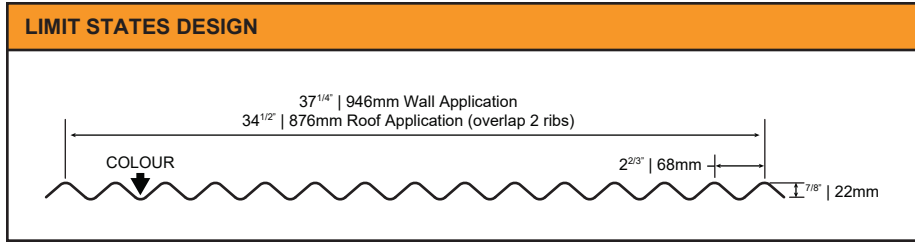
LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

LOAD TABLE | Maximum Uniformly Distributed Specified Loads (psf).

Span Length (ft)		1-Span Base Steel Thickness (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	188	285	246	303	188	285	246	303	235	356	308	378
2.0	D	338	338	443	545	811	811	1064	1307	639	639	838	1029
2.5	S	120	182	158	194	120	182	158	194	150	228	197	242
2.5	D	173	173	227	279	415	415	545	669	327	327	429	527
3.0	S	84	127	109	135	84	127	109	135	104	158	137	168
3.0	D	100	100	131	161	240	240	315	387	189	189	248	305
3.5	S	61	93	80	99	61	93	80	99	77	116	101	124
3.5	D	63	63	83	102	151	151	198	244	119	119	156	192
4.0	S	47	71	62	76	47	71	62	76	59	89	77	95
4.0	D	42	42	55	68	101	101	133	163	80	80	105	129
4.5	S	37	56	49	60	37	56	49	60	46	70	61	75
4.5	D	30	30	39	48	71	71	93	115	56	56	74	90
5.0	S	30	46	39	48	30	46	39	48	38	57	49	61
5.0	D	22	22	28	35	52	52	68	84	41	41	54	66
5.5	S	25	38	33	40	25	38	33	40	31	47	41	50
5.5	D	16	16	21	26	39	39	51	63	31	31	40	49
6.0	S	21	32	27	34	21	32	27	34	26	40	34	42
6.0	D	13	13	16	20	30	30	39	48	24	24	31	38
6.5	S			23	29	18	27	23	29	22	34	29	36
6.5	D			13	16	24	24	31	38	19	19	24	30
7.0	S			20	25	15	23	20	25	19	29	25	31
7.0	D			10	13	19	19	25	30	15	15	20	24
7.5	S				22	13	20	18	22	17	25	22	27
7.5	D				10	15	15	20	25	12	12	16	20
8.0	S					12	18	15	19			19	24
8.0	D					13	13	17	20			13	16

*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 = 1.40; 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	0.762	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	3.38	5.07	4.43	5.45	3.38	5.07	4.43	5.45	4.22	6.34	5.54	6.81
1.0	D	3.67	3.67	4.81	5.91	8.80	8.80	11.5	14.2	6.93	6.93	9.09	11.2
1.2	S	2.35	3.52	3.08	3.78	2.35	3.52	3.08	3.78	2.93	4.40	3.85	4.73
1.2	D	2.12	2.12	2.78	3.42	5.09	5.09	6.68	8.21	4.01	4.01	5.26	6.46
1.4	S	1.72	2.59	2.26	2.78	1.72	2.59	2.26	2.78	2.16	3.23	2.83	3.47
1.4	D	1.34	1.34	1.75	2.15	3.21	3.21	4.20	5.17	2.53	2.53	3.31	4.07
1.6	S	1.32	1.98	1.73	2.13	1.32	1.98	1.73	2.13	1.65	2.48	2.16	2.66
1.6	D	0.90	0.90	1.17	1.44	2.15	2.15	2.82	3.46	1.69	1.69	2.22	2.73
1.8	S	1.04	1.56	1.37	1.68	1.04	1.56	1.37	1.68	1.30	1.96	1.71	2.10
1.8	D	0.63	0.63	0.82	1.01	1.51	1.51	1.98	2.43	1.19	1.19	1.56	1.91
2.0	S			1.11	1.36	0.84	1.27	1.11	1.36	1.06	1.58	1.38	1.70
2.0	D			0.60	0.74	1.10	1.10	1.44	1.77	0.87	0.87	1.14	1.40
2.2	S				1.13	0.70	1.05	0.92	1.13	0.87	1.31	1.14	1.41
2.2	D				0.55	0.83	0.83	1.08	1.33	0.65	0.65	0.85	1.05
2.4	S					0.59	0.88	0.77	0.95	0.73	1.10	0.96	1.18
2.4	D					0.64	0.64	0.83	1.03	0.50	0.50	0.66	0.81
2.6	S						0.75	0.66	0.81			0.82	1.01
2.6	D						0.50	0.66	0.81			0.52	0.64
2.8	S							0.57	0.69				0.87
2.8	D							0.53	0.65				0.51

*Y.S. = Yield Stress