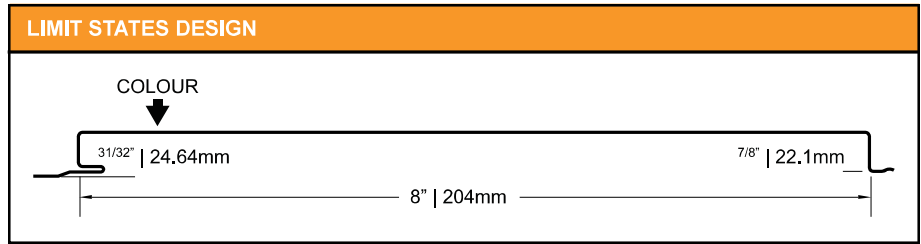


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.



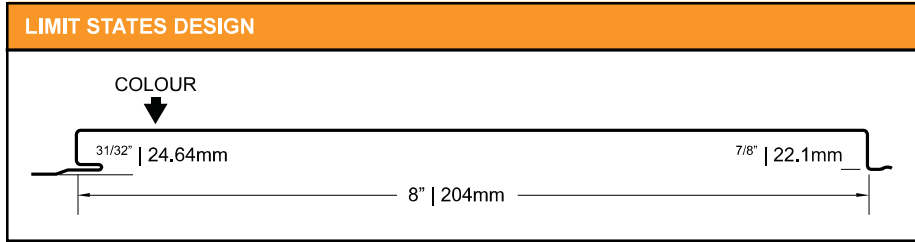
SECTION PROPERTIES Per Foot of Width									
Base Steel Thickness (inches)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
			Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi1 Interior (lb)
0.0240	1.04	33	0.0351	0.0576	0.0200	139	34.8	257	43.7
0.0300	1.28	33	0.0503	0.0716	0.0272	223	55.8	413	70.2
0.0360	1.53	33	0.0676	0.0854	0.0350	327	81.8	607	103
0.0480	2.02	33	0.105	0.112	0.0534	597	149	1109	188

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 (inches)				2-Span Base Steel Thickness (inches)				3-Span Base Steel Thickness (inches)				
		0.0240	0.0300	0.0360	0.0480	0.0240	0.0300	0.0360	0.0480	0.0240	0.0300	0.0360	0.0480	
Y.S.* (ksi)		33	33	33	33									
4.0	S	31	44	60	92									
4.0	D	36	49	64	97									
4.5	S	25	35	47	73									
4.5	D	26	35	45	68									
5.0	S	20	28	38	59									
5.0	D	19	25	33	50									
5.5	S	16	24	32	49									
5.5	D	14	19	24	37									
6.0	S	14	20	27	41									
6.0	D	11	15	19	29									
6.5	S		17	23	35									
6.5	D		12	15	23									
7.0	S			20	30									
7.0	D			12	18									
7.5	S				26									
7.5	D				15									
8.0	S				23									
8.0	D				12									

*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)
0.610	4.79	230	1.88	3.10	0.0273	2.05	0.513	3.80	0.645
0.762	5.98	230	2.69	3.85	0.0370	3.29	0.823	6.09	1.04
0.914	7.18	230	3.62	4.59	0.0476	4.83	1.21	8.95	1.52
1.22	9.57	230	5.61	6.04	0.0727	8.81	2.20	16.4	2.78

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)			
		0.610	0.762	0.914	1.22	0.610	0.762	0.914	1.22	0.610	0.762	0.914	1.22
Y.S.* (MPa)		230	230	230	230	230	230	230	230	230	230	230	230
1.2	S	1.55	2.21	2.97	4.61	2.55	3.16	3.77	4.96	2.42	3.46	4.65	6.20
1.2	D	1.82	2.47	3.18	4.86	4.37	5.94	7.64	11.7	3.44	4.68	6.02	9.18
1.4	S	1.14	1.63	2.18	3.39	1.87	2.32	2.77	3.65	1.77	2.54	3.41	4.56
1.4	D	1.15	1.56	2.01	3.06	2.75	3.74	4.81	7.34	2.17	2.95	3.79	5.78
1.6	S	0.87	1.24	1.67	2.59	1.43	1.78	2.12	2.79	1.36	1.94	2.61	3.49
1.6	D	0.77	1.04	1.34	2.05	1.84	2.51	3.22	4.92	1.45	1.97	2.54	3.87
1.8	S	0.69	0.98	1.32	2.05	1.13	1.41	1.68	2.21	1.07	1.54	2.06	2.76
1.8	D	0.54	0.73	0.94	1.44	1.30	1.76	2.26	3.46	1.02	1.39	1.78	2.72
2.0	S		0.80	1.07	1.66	0.92	1.14	1.36	1.79	0.87	1.24	1.67	2.23
2.0	D		0.53	0.69	1.05	0.94	1.28	1.65	2.52	0.74	1.01	1.30	1.98
2.2	S			0.88	1.37	0.76	0.94	1.12	1.48	0.72	1.03	1.38	1.85
2.2	D			0.52	0.79	0.71	0.96	1.24	1.89	0.56	0.76	0.98	1.49
2.4	S				1.15	0.64	0.79	0.94	1.24		0.86	1.16	1.55
2.4	D				0.61	0.55	0.74	0.96	1.46		0.58	0.75	1.15
2.6	S						0.67	0.80	1.06			0.99	1.32
2.6	D						0.58	0.75	1.15			0.59	0.90
2.8	S							0.69	0.91				1.14
2.8	D							0.60	0.92				0.72

*Y.S. = Yield Strength