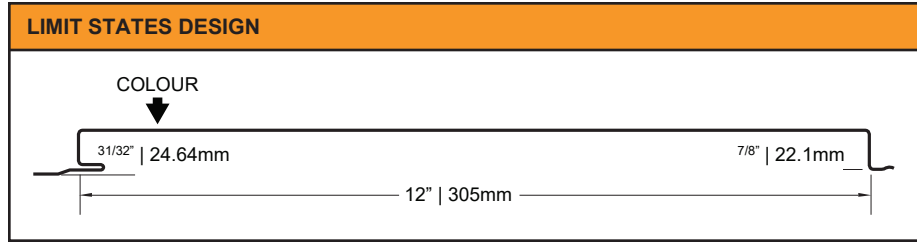


1. Based on ASTM A 653M structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.



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)
0.610	6.64	230	2.13	2.56	0.0391				
0.762	8.25	230	3.10	3.72	0.0522				

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			0.610	0.762			0.610	0.762		
YS* (MPa)		230	230			230	230			230	230		
1.2	S	1.73	2.52			2.08	3.01			2.60	3.77		
1.2	D	2.61	3.49			5.22	6.97			4.70	6.28		
1.4	S	1.27	1.85			1.53	2.21			1.91	2.77		
1.4	D	1.64	2.20			3.29	4.39			2.96	3.95		
1.6	S	0.98	1.42			1.17	1.70			1.46	2.12		
1.6	D	1.10	1.47			2.20	2.94			1.98	2.65		
1.8	S	0.77	1.12			0.92	1.34			1.16	1.67		
1.8	D	0.77	1.03			1.55	2.07			1.39	1.86		
2.0	S	0.62	0.91			0.75	1.09			0.94	1.36		
2.0	D	0.56	0.75			1.13	1.51			1.01	1.36		
2.2	S		0.75			0.62	0.90			0.77	1.12		
2.2	D		0.57			0.85	1.13			0.76	1.02		
2.4	S					0.52	0.75			0.65	0.94		
2.4	D					0.65	0.87			0.59	0.78		
2.6	S						0.64				0.80		
2.6	D						0.69				0.62		
2.8	S												
2.8	D												

*Y.S. = Yield Stress