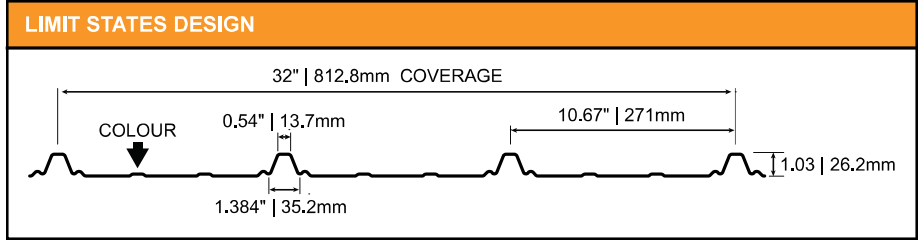


- Based on ASTM A 653 structural steel.
- Values in row "S" are based on strength.
- Values in row "D" are based on deflection of 1/180th span.
- Web crippling not included in strength calculation. See example.
- Limit States Design principles were used in accordance with CSA Standard S136-12.



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)
0.0180	1.00	50	0.0240	0.0195	0.0217	56.7	14.2	104	17.6

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

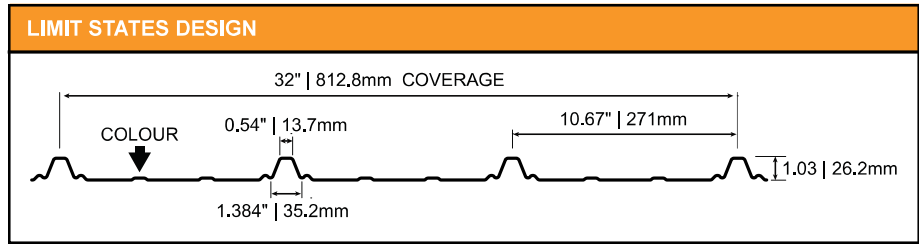
LOAD TABLE | Maximum Uniformly Distributed Specified Loads (psf).

Span Length (ft)	1-Span Base Steel Thickness (inches)				2-Span Base Steel Thickness (inches)				3-Span Base Steel Thickness (inches)			
	0.0180				0.0180				0.0180			
Y.S.* (ksi)	50				50				50			
1.0 S	515				418				523			
1.0 D	2518				6044				4760			
1.5 S	229				186				232			
1.5 D	746				1791				1410			
2.0 S	129				105				131			
2.0 D	315				755				595			
2.5 S	82				67				84			
2.5 D	161				387				305			
3.0 S	57				46				58			
3.0 D	93				224				176			
3.5 S	42				34				43			
3.5 D	59				141				111			
4.0 S	32				26				33			
4.0 D	39				94				74			

*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)
0.457	4.82	345	1.29	1.05	0.0296	0.828	0.207	1.51	0.257

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				0.457			
Y.S.* (MPa)	345					345				345			
0.4	S	14.3				11.6				14.5			
0.4	D	53.4				128				101			
0.5	S	9.17				7.44				9.30			
0.5	D	27.3				65.6				51.6			
0.6	S	6.36				5.17				6.46			
0.6	D	15.8				37.9				29.9			
0.8	S	3.58				2.91				3.63			
0.8	D	6.67				16.0				12.6			
1.0	S	2.29				1.86				2.33			
1.0	D	3.41				8.19				6.45			
1.2	S	1.59				1.29				1.62			
1.2	D	1.98				4.74				3.73			

*Y.S. = Yield Strength