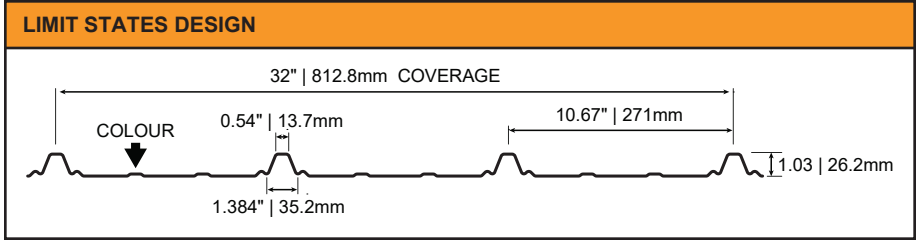


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.



**SECTION PROPERTIES | Per Foot of Width**

Base Steel Thickness (in.)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in <sup>4</sup> )	Specified Web Crippling Data			
			Midspan (in <sup>3</sup> )	Support (in <sup>3</sup> )		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 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

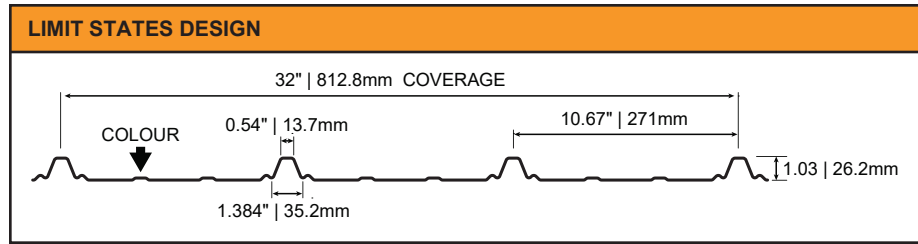
**LOAD TABLE | Maximum Uniformly Distributed Specified Loads (psf).**

Span Length (ft)	1-Span Base Steel Thickness (in.)				2-Span Base Steel Thickness (in.)				3-Span Base Steel Thickness (in.)			
	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 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 <sup>2</sup> )	Yield Stress (MPa)	Section Modulus		Deflection Moment of Inertia (x10 <sup>6</sup> mm <sup>4</sup> )	Specified Web Crippling Data			
			Midspan (x10 <sup>3</sup> mm <sup>3</sup> )	Support (x10 <sup>3</sup> mm <sup>3</sup> )		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi2 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	0.457	0.457	0.457	0.457	0.457	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 Stress