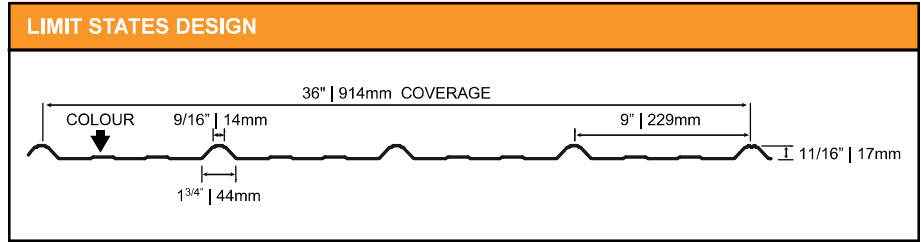


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.



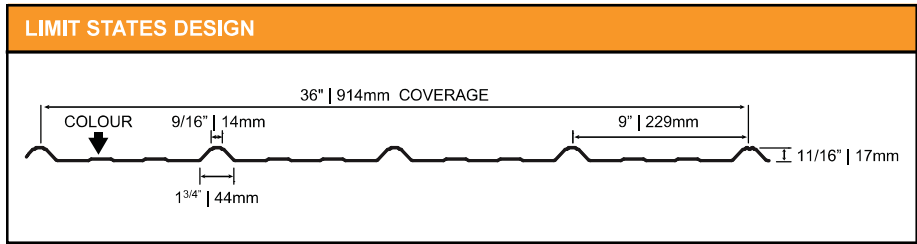
SECTION PROPERTIES Per Foot of Width									
Base Steel Thickness (inches)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
			Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi1 Interior (lb)
0.0135	0.68	80	0.0120	0.0096	0.0069	35.0	8.74	65.0	11.1
0.0180	0.88	50	0.0161	0.0134	0.0092	54.3	13.6	101	17.2

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)			
		0.0135	0.0180			0.0135	0.0180			0.0135	0.0180		
Y.S.* (ksi)		80	50			80	50			80	50		
1.5	S	137	153			109	128			137	160		
1.5	D	238	317			571	760			450	599		
2.0	S	77	86			61	72			77	90		
2.0	D	100	134			241	321			190	253		
2.5	S	49	55			39	46			49	58		
2.5	D	51	68			123	164			97	129		
3.0	S	34	38			27	32			34	40		
3.0	D	30	40			71	95			56	75		
3.5	S	25	28			20	23			25	29		
3.5	D	19	25			45	60			35	47		
4.0	S	19	22			15	18			19	22		
4.0	D	13	17			30	40			24	32		
4.5	S	15	17			12	14			15	18		
4.5	D	9	12			21	28			17	22		
5.0	S	12	14			10	12			12	14		
5.0	D	6	9			15	21			12	16		

*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)
0.343	3.30	550	0.645	0.514	0.0094	0.509	0.127	0.95	0.161
0.457	4.31	345	0.866	0.721	0.0126	0.793	0.198	1.48	0.252

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)			
		0.343	0.457			0.343	0.457			0.343	0.457		
Y.S.* (MPa)		550	345			550	345			550	345		
0.5	S	5.47	6.14			4.36	5.12			5.45	6.40		
0.5	D	8.71	11.6			20.9	27.8			16.5	21.9		
0.6	S	3.80	4.27			3.03	3.56			3.79	4.44		
0.6	D	5.04	6.71			12.1	16.1			9.53	12.7		
0.8	S	2.14	2.40			1.70	2.00			2.13	2.50		
0.8	D	2.13	2.83			5.11	6.79			4.02	5.35		
1.0	S	1.37	1.54			1.09	1.28			1.36	1.60		
1.0	D	1.09	1.45			2.61	3.48			2.06	2.74		
1.2	S	0.95	1.07			0.76	0.89			0.95	1.11		
1.2	D	0.63	0.84			1.51	2.01			1.19	1.59		
1.4	S	0.70	0.78			0.56	0.65			0.70	0.82		
1.4	D	0.40	0.53			0.95	1.27			0.75	1.00		
1.6	S	0.53	0.60			0.43	0.50			0.53	0.63		
1.6	D	0.27	0.35			0.64	0.85			0.50	0.67		

*Y.S. = Yield Strength