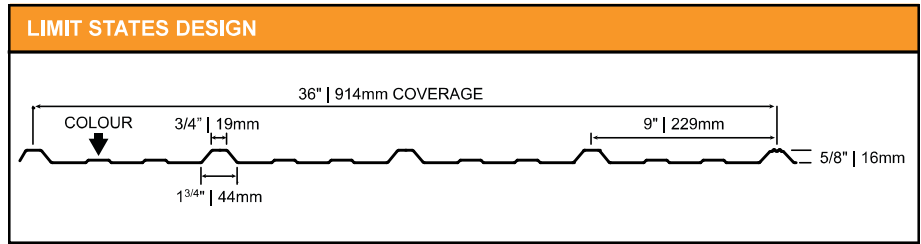


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12.



SECTION PROPERTIES   Per Foot of Width									
Base Steel Thickness (inches)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in <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)	Pi1 Interior (lb)
0.0135	0.68	80	0.0108	0.0097	0.0064	37.5	9.38	68.6	11.7
0.0180	0.88	50	0.0163	0.0143	0.0087	58.1	14.5	107	18.2

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	124	155			110	136			138	170		
1.5	D	220	301			529	721			416	568		
2.0	S	70	87			62	77			78	96		
2.0	D	93	127			223	304			176	240		
2.5	S	45	56			40	49			50	61		
2.5	D	48	65			114	156			90	123		
3.0	S	31	39			28	34			34	43		
3.0	D	28	38			66	90			52	71		
3.5	S	23	28			20	25			25	31		
3.5	D	17	24			42	57			33	45		
4.0	S	17	22			16	19			19	24		
4.0	D	12	16			28	38			22	30		
4.5	S	14	17			12	15			15	19		
4.5	D	8	11			20	27			15	21		
5.0	S	11	14			10	12			12	15		
5.0	D	6	8			14	19			11	15		

\*Y.S. = Yield Strength

