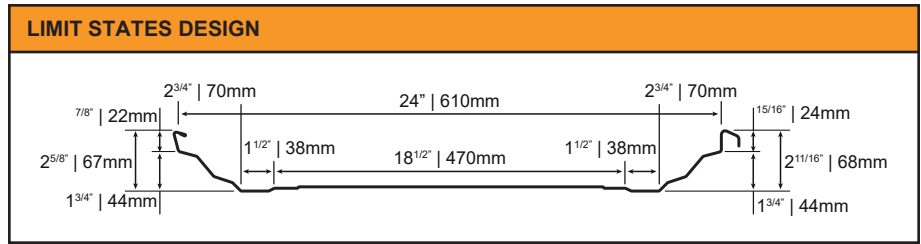


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/240th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.



SECTION PROPERTIES | Per Foot of Width

Base Steel Thickness (in.)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
			Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
0.0240	1.26	50	0.0997	0.0864	0.179				
0.0300	1.56	50	0.126	0.109	0.227				

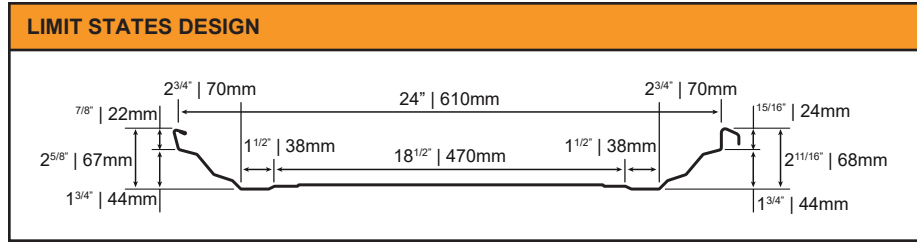
LLF = 1.50; IMPF = 0.90; NORMAL OCCUPANCY = 1.0

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.)			
	0.0240	0.0300			0.0240	0.0300			0.0240	0.0300		
Y.S.* (ksi)	50	50			50	50			50	50		
3.0 S	220	278			191	241			239	302		
3.0 D	482	611			1157	1466			911	1154		
3.5 S	161	204			140	177			175	221		
3.5 D	303	385			728	923			574	727		
4.0 S	123	156			107	135			134	169		
4.0 D	203	258			488	618			384	487		
4.5 S	97	123			84	106			105	133		
4.5 D	143	181			343	434			270	342		
5.0 S	78	99			68	86			85	108		
5.0 D	104	132			250	317			197	249		
5.5 S	65	82			56	71			70	89		
5.5 D	78	99			188	238			148	187		
6.0 S	54	68			47	59			59	74		
6.0 D	60	76			145	183			114	144		
6.5 S	46	58			40	50			50	63		
6.5 D	47	60			114	144			90	114		
7.0 S	39	50			34	43			43	54		
7.0 D	38	48			91	115			72	91		
7.5 S	34	43			29	37			37	47		
7.5 D	31	39			74	94			58	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 1/240th 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	5.91	345	5.36	4.65	0.244				
0.762	7.35	345	6.76	5.87	0.310				

LLF = 1.50; IMPF = 0.90; 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		
Y.S.* (MPa)		345	345			345	345			345	345		
1.0	S	8.82	11.1			7.64	9.65			9.56	12.1		
1.0	D	17.6	22.4			42.3	53.7			33.3	42.3		
1.2	S	6.10	7.70			5.28	6.68			6.62	8.36		
1.2	D	10.2	12.9			24.5	31.1			19.3	24.5		
1.4	S	4.47	5.64			3.87	4.89			4.85	6.13		
1.4	D	6.43	8.15			15.4	19.6			12.2	15.4		
1.5	S	3.89	4.90			3.36	4.25			4.22	5.33		
1.5	D	5.23	6.63			12.6	15.9			9.88	12.5		
1.6	S	3.41	4.30			2.95	3.72			3.70	4.67		
1.6	D	4.31	5.46			10.3	13.1			8.14	10.3		
1.8	S	2.68	3.38			2.32	2.93			2.91	3.68		
1.8	D	3.03	3.83			7.26	9.20			5.72	7.25		
2.0	S	2.16	2.73			1.87	2.36			2.35	2.97		
2.0	D	2.21	2.80			5.29	6.71			4.17	5.28		

*Y.S. = Yield Stress