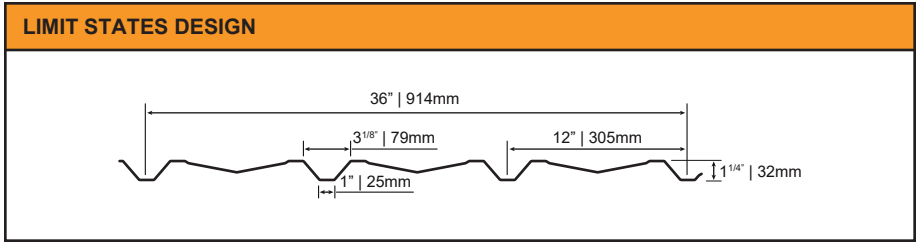


1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.



SECTION PROPERTIES | Per Foot of Width

Base Steel Thickness (in.)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
			Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
0.0180	0.94	33	0.0344	0.0405	0.0264	25.9	6.5	52.0	8.83
0.0180	0.94	50	0.0324	0.0382	0.0242	39.2	9.8	78.7	13.4
0.0180	0.94	80	0.0312	0.0373	0.0233	47.1	11.8	94.5	16.1
0.0240	1.23	33	0.0477	0.0574	0.0420	48.6	12.1	96.4	16.4

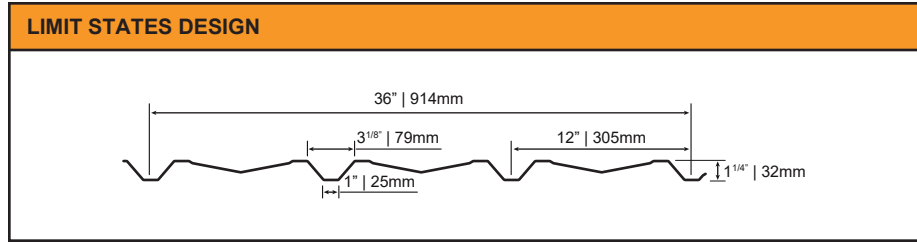
LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

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	0.0240	0.0180	0.0180	0.0180	0.0240	0.0180	0.0180	0.0180	0.0240						
Y.S.* (ksi)		33	50	80	33														
2.0	S	122	173	200	169					143	205	240	203			179	256	300	254
2.0	D	384	352	339	611					922	845	815	1466			726	665	642	1154
2.5	S	78	111	128	108					92	131	153	130			114	164	192	162
2.5	D	197	180	174	313					472	433	417	751			372	341	328	591
3.0	S	54	77	89	75					64	91	107	90			79	114	133	113
3.0	D	114	104	101	181					273	250	241	434			215	197	190	342
3.5	S	40	57	65	55					47	67	78	66			58	84	98	83
3.5	D	72	66	63	114					172	158	152	274			135	124	120	215
4.0	S	30	43	50	42					36	51	60	51			45	64	75	63
4.0	D	48	44	42	76					115	106	102	183			91	83	80	144
4.5	S	24	34	40	33					28	40	47	40			35	51	59	50
4.5	D	34	31	30	54					81	74	72	129			64	58	56	101
5.0	S	19	28	32	27					23	33	38	32			29	41	48	41
5.0	D	25	23	22	39					59	54	52	94			46	43	41	74
5.5	S	16	23	26	22					19	27	32	27			24	34	40	34
5.5	D	18	17	16	29					44	41	39	70			35	32	31	56
6.0	S	14	19	22	19					16	23	27	23			20	28	33	28
6.0	D	14	13	13	23					34	31	30	54			27	25	24	43

*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 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)
0.457	4.59	230	1.85	2.17	0.0360	0.382	0.096	0.766	0.130
0.457	4.59	345	1.74	2.06	0.0331	0.573	0.143	1.15	0.195
0.457	4.59	550	1.68	2.01	0.0319	0.685	0.171	1.38	0.234
0.610	6.02	230	2.57	3.09	0.0572	0.716	0.179	1.42	0.242

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	0.610	0.457	0.457	0.457	0.610	0.457	0.457	0.457	0.610
Y.S.* (MPa)		230	345	550	230	230	345	550	230	230	345	550	230
0.6	S	6.08	8.58	9.88	8.43	7.14	10.1	11.8	10.2	8.92	12.7	14.8	12.7
0.6	D	19.2	17.7	17.1	30.6	46.2	42.4	40.9	73.4	36.4	33.4	32.2	57.8
0.8	S	3.42	4.82	5.56	4.74	4.01	5.70	6.65	5.71	5.02	7.12	8.31	7.14
0.8	D	8.12	7.45	7.20	12.9	19.5	17.9	17.3	31.0	15.3	14.1	13.6	24.4
1.0	S	2.19	3.09	3.56	3.03	2.57	3.65	4.26	3.65	3.21	4.56	5.32	4.57
1.0	D	4.16	3.82	3.68	6.61	9.97	9.16	8.84	15.9	7.85	7.21	6.96	12.5
1.2	S	1.52	2.14	2.47	2.11	1.78	2.53	2.96	2.54	2.23	3.17	3.69	3.17
1.2	D	2.40	2.21	2.13	3.83	5.77	5.30	5.12	9.18	4.54	4.17	4.03	7.23
1.4	S	1.12	1.58	1.81	1.55	1.31	1.86	2.17	1.86	1.64	2.33	2.71	2.33
1.4	D	1.51	1.39	1.34	2.41	3.63	3.34	3.22	5.78	2.86	2.63	2.54	4.55
1.6	S	0.85	1.21	1.39	1.19	1.00	1.42	1.66	1.43	1.25	1.78	2.08	1.78
1.6	D	1.01	0.93	0.90	1.61	2.43	2.24	2.16	3.87	1.92	1.76	1.70	3.05
1.8	S	0.68	0.95	1.10	0.94	0.79	1.13	1.31	1.13	0.99	1.41	1.64	1.41
1.8	D	0.71	0.65	0.63	1.13	1.71	1.57	1.52	2.72	1.35	1.24	1.19	2.14
2.0	S	0.55	0.77	0.89	0.76	0.64	0.91	1.06	0.91	0.80	1.14	1.33	1.14
2.0	D	0.52	0.48	0.46	0.83	1.25	1.15	1.11	1.98	0.98	0.90	0.87	1.56

*Y.S. = Yield Stress