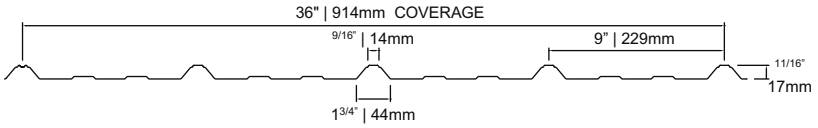
1. Properties and loads are based on Grade 550 Steel with a minimum yield stress of 550 MPa and a maximum stress under factored loads of 324 MPa.

2. Figures in Row B indicate the load capacity based on strength. Strength capacity B should be checked against [Specified Live Load] + [0.833 x Specified Dead Load].

3. Figures in Row D indicate the load capacity based on deflection of 1/180th span. For allowable deflection of 1/90th span, values in Row D can be doubled, but must not exceed the figure in Row B. Deflection capacity should be checked against Specified Load(s).

4. Specified web crippling capacity should be checked against specified load at support location.

LIMIT STATES DESIGN



PHYSICAL PROPERTIES | Per Metre Width in accordance with CSA Specification S136-94.

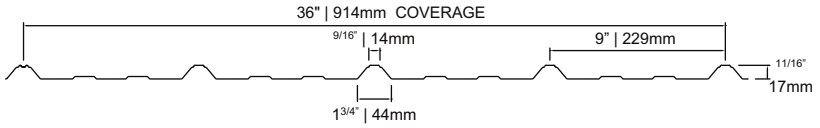
Base Steel Nominal Thickness (mm)	Nominal Thickness Z275 Coating (mm)	Mass with Z275 Coating (kg/m^2)	Section Modulus		Moment of Inertia Midspan ($mm^4 \times 10^3$)	Factored Resistance Moment		Specified Crippling Bearing [mm] = 38	
			Midspan ($mm^3 \times 10^3$)	Support ($mm^3 \times 10^3$)		Midspan (N-m)	Support (N-m)	End (N/m)	Interior (N/m)
0.305	0.343	2.60	0.562	0.452	8.617	182	146	2452	1883
0.343	0.381	2.89	0.649	0.517	9.696	210	168	2963	2306
0.381	0.419	3.18	0.731	0.583	10.761	237	189	3517	2773
0.457	0.495	3.76	0.874	0.718	12.891	283	233	4714	3838

LOAD TABLE | Maximum Specified Uniformly Distributed Load in kN/m^2 (kPa).

Span (mm)		1-Span Base Steel Nominal Thickness (mm)				2-Span Base Steel Nominal Thickness (mm)				3-Span Base Steel Nominal Thickness (mm)			
		0.305	0.343	0.381	0.457	0.305	0.343	0.381	0.457	0.305	0.343	0.381	0.457
300	B	10.79	12.46	14.04	16.78	8.68	9.93	11.19	13.79	10.85	12.41	13.99	17.23
300	D	27.64	31.10	34.52	41.35	66.59	74.92	83.15	99.61	52.19	58.72	65.17	78.08
450	B	4.80	5.54	6.24	7.46	3.86	4.41	4.97	6.13	4.82	5.51	6.22	7.66
450	D	8.19	9.22	10.23	12.25	19.73	22.20	24.64	29.52	15.46	17.40	19.31	23.13
600	B	2.70	3.12	3.51	4.20	2.17	2.48	2.80	3.45	2.71	3.10	3.50	4.31
600	D	3.46	3.89	4.31	5.17	8.32	9.37	10.39	12.45	6.52	7.34	8.15	9.76
750	B	1.73	1.99	2.25	2.68	1.39	1.59	1.79	2.21	1.74	1.99	2.24	2.76
750	D	1.77	1.99	2.21	2.65	4.26	4.80	5.32	6.38	3.34	3.76	4.17	5.00
900	B	1.20	1.38	1.56	1.86	0.96	1.10	1.24	1.53	1.21	1.38	1.55	1.91
900	D	1.02	1.15	1.28	1.53	2.47	2.77	3.08	3.69	1.93	2.17	2.41	2.89
1050	B	0.88	1.02	1.15	1.37	0.71	0.81	0.91	1.13	0.89	1.01	1.14	1.41
1050	D	0.64	0.73	0.81	0.96	1.55	1.75	1.94	2.32	1.22	1.37	1.52	1.82
1200	B	0.67	0.78	0.88	1.05	0.54	0.62	0.70	0.86	0.68	0.78	0.87	1.08
1200	D	0.43	0.49	0.54	0.65	1.04	1.17	1.30	1.56	0.82	0.92	1.02	1.22
1350	B	0.53	0.62	0.69	0.83	0.43	0.49	0.55	0.68	0.54	0.61	0.69	0.85
1350	D	0.30	0.34	0.38	0.45	0.73	0.82	0.91	1.09	0.57	0.64	0.72	0.86
1500	B	0.43	0.50	0.56	0.67	0.35	0.40	0.45	0.55	0.43	0.50	0.56	0.69
1500	D	0.22	0.25	0.28	0.33	0.53	0.60	0.67	0.80	0.42	0.47	0.52	0.62
1650	B	0.36	0.41	0.46	0.55	0.29	0.33	0.37	0.46	0.36	0.41	0.46	0.57
1650	D	0.17	0.19	0.21	0.25	0.40	0.45	0.50	0.60	0.31	0.35	0.39	0.47
1800	B	0.30	0.35	0.39	0.47	0.24	0.28	0.31	0.38	0.30	0.34	0.39	0.48
1800	D	0.13	0.14	0.16	0.19	0.31	0.35	0.38	0.46	0.24	0.27	0.30	0.36
1950	B	0.26	0.29	0.33	0.40	0.21	0.23	0.26	0.33	0.26	0.29	0.33	0.41
1950	D	0.10	0.11	0.13	0.15	0.24	0.27	0.30	0.36	0.19	0.21	0.24	0.28
2100	B	0.22	0.25	0.29	0.34	0.18	0.20	0.23	0.28	0.22	0.25	0.29	0.35
2100	D	0.08	0.09	0.10	0.12	0.19	0.22	0.24	0.29	0.15	0.17	0.19	0.23

1. Properties and loads are based on Grade 80 Steel with a minimum yield stress of 80,000 psi and a maximum stress under factored loads of 46,980 psi.
2. Figures in Row B indicate the load capacity based on strength. Strength capacity B should be checked against [Specified Live Load] + [0.833 x Specified Dead Load].
3. Figures in Row D indicate the load capacity based on deflection of 1/180th span. For allowable deflection of 1/90th span, values in Row D can be doubled, but must not exceed the figure in Row B. Deflection capacity should be checked against Specified Load(s).
4. Specified web crippling capacity should be checked against specified load at support location.

LIMIT STATES DESIGN



PHYSICAL PROPERTIES | Per Metre Width in accordance with CSA Specification S136-94.

Base Steel Nominal Thickness (inches)	Nominal Thickness Z275 Coating (inches)	Mass with Z275 Coating (lb/ft²)	Section Modulus		Moment of Inertia Midspan (in⁴)	Factored Resistance Moment		Specified Crippling Bearing [mm] = 1.5	
			Midspan (in³)	Support (in³)		Midspan (ft-lb)	Support (ft-lb)	End (lbs/ft)	Interior (lbs/ft)
0.0120	0.0135	0.5846	0.01045	0.00841	0.00631	40.91	32.93	168	129
0.0135	0.0150	0.6496	0.01208	0.00962	0.00710	47.290	37.66	203	158
0.0150	0.0165	0.7146	0.01360	0.01085	0.00788	53.239	42.48	241	190
0.0180	0.0195	0.8446	0.01626	0.01336	0.00944	63.660	52.30	323	263

LOAD TABLE | Maximum Specified Uniformly Distributed Load in lb/ft² (psf).

Span (ft)		1-Span Base Steel Nominal Thickness (inches)				2-Span Base Steel Nominal Thickness (inches)				3-Span Base Steel Nominal Thickness (inches)			
		0.0120	0.0135	0.0150	0.0180	0.0120	0.0135	0.0150	0.0180	0.0120	0.0135	0.0150	0.0180
1.0	B	218	252	284	340	176	201	227	279	220	251	283	349
1.0	D	550	619	687	824	1326	1492	1656	1984	1039	1169	1298	1555
1.5	B	97	112	126	151	78	89	101	124	98	112	126	155
1.5	D	163	184	204	244	393	442	491	588	308	346	385	461
2.0	B	55	63	71	85	44	50	57	70	55	63	71	87
2.0	D	69	77	86	103	166	187	207	248	130	146	162	194
2.5	B	35	40	45	54	28	32	36	45	35	40	45	56
2.5	D	35	40	44	53	85	95	106	127	67	75	83	100
3.0	B	24	28	32	38	20	22	25	31	24	28	31	39
3.0	D	20	23	25	31	49	55	61	73	38	43	48	58
3.5	B	18	21	23	28	14	16	18	23	18	20	23	28
3.5	D	13	14	16	19	31	35	39	46	24	27	30	36
4.0	B	14	16	18	21	11	13	14	17	14	16	18	22
4.0	D	9	10	11	13	21	23	26	31	16	18	20	24
4.5	B	11	12	14	17	9	10	11	14	11	12	14	17
4.5	D	6	7	8	9	15	16	18	22	11	13	14	17
5.0	B	9	10	11	14	7	8	9	11	9	10	11	14
5.0	D	4	5	5	7	11	12	13	16	8	9	10	12
5.5	B	7	8	9	11	6	7	7	9	7	8	9	12
5.5	D	3	4	4	5	8	9	10	12	6	7	8	9
6.0	B	6	7	8	9	5	6	6	8	6	7	8	10
6.0	D	3	3	3	4	6	7	8	9	5	5	6	7
6.5	B	5	6	7	8	4	5	5	7	5	6	7	8
6.5	D	2	2	3	3	5	5	6	7	4	4	5	6
7.0	B	4	5	6	7	4	4	5	6	4	5	6	7
7.0	D	2	2	2	2	4	4	5	6	3	3	4	5