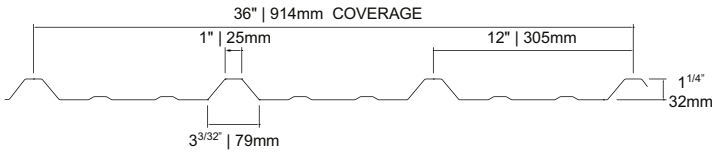
1. Properties and loads are based on Grade 550 Steel with a minimum yield stress of 550 MPa and a maximum stress under factored loads of 324 MPa.

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.

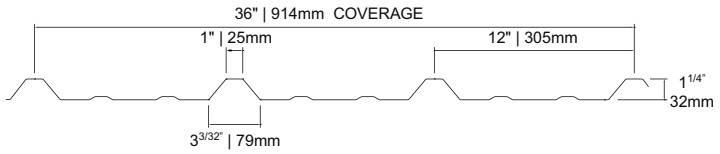
Base Steel Nominal Thickness (mm)	Nominal Thickness Z275 Coating (mm)	Mass with Z275 Coating (kg/m^2)	Section Modulus		Moment of Inertia Midspan ($mm^4 \times 10^3$)	Factored Resistance Moment		Specified Crippling Bearing [mm] = 64	
			Midspan ($mm^3 \times 10^3$)	Support ($mm^3 \times 10^3$)		Midspan (N-m)	Support (N-m)	End (N/m)	Interior (N/m)
0.305	0.343	2.75	1.070	1.360	28.500	347	441	1050	1240
0.343	0.381	3.06	1.226	1.548	32.706	397	502	1313	1664
0.381	0.419	3.37	1.387	1.731	37.048	449	561	1591	2131
0.457	0.495	3.99	1.720	2.108	46.048	557	683	2102	3006
0.610	0.648	5.19	2.435	2.866	72.868	789	929	3517	5838
0.762	0.800	6.44	3.667	3.624	90.962	1188	1174	5225	9632

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	0.610	0.762	0.305	0.343	0.381	0.457	0.610	0.762	0.305	0.343	0.381	0.457	0.610	0.762
600	B	5.14	5.88	6.66	8.26	11.69	17.60	6.53	7.43	8.31	10.12	13.76	17.40	8.16	9.29	10.39	12.65	17.20	21.74
600	D	11.43	13.11	14.86	18.46	29.22	36.47	27.53	31.59	35.79	44.48	70.38	87.86	21.58	24.76	28.05	34.86	55.16	68.86
750	B	3.29	3.77	4.26	5.28	7.48	11.27	4.18	4.76	5.32	6.48	8.80	11.13	5.22	5.94	6.65	8.09	11.01	13.92
750	D	5.85	6.71	7.61	9.45	14.96	18.67	14.09	16.17	18.32	22.77	36.04	44.99	11.05	12.68	14.36	17.85	28.25	35.26
900	B	2.28	2.62	2.96	3.67	5.19	7.82	2.90	3.30	3.69	4.50	6.11	7.73	3.63	4.13	4.62	5.62	7.64	9.66
900	D	3.39	3.89	4.40	5.47	8.66	10.81	8.16	9.36	10.60	13.18	20.85	26.03	6.39	7.34	8.31	10.33	16.35	20.40
1050	B	1.68	1.92	2.17	2.70	3.82	5.75	2.13	2.43	2.71	3.30	4.49	5.68	2.66	3.03	3.39	4.13	5.62	7.10
1050	D	2.13	2.45	2.77	3.45	5.45	6.81	5.14	5.89	6.68	8.30	13.13	16.39	4.03	4.62	5.23	6.50	10.29	12.85
1200	B	1.28	1.47	1.66	2.06	2.92	4.40	1.63	1.86	2.08	2.53	3.44	4.35	2.04	2.32	2.60	3.16	4.30	5.44
1200	D	1.43	1.64	1.86	2.31	3.65	4.56	3.44	3.95	4.47	5.56	8.80	10.98	2.70	3.10	3.51	4.36	6.90	8.61
1350	B	1.01	1.16	1.32	1.63	2.31	3.48	1.29	1.47	1.64	2.00	2.72	3.44	1.61	1.83	2.05	2.50	3.40	4.30
1350	D	1.00	1.15	1.30	1.62	2.57	3.20	2.42	2.77	3.14	3.90	6.18	7.71	1.89	2.17	2.46	3.06	4.84	6.05
1500	B	0.82	0.94	1.07	1.32	1.87	2.82	1.04	1.19	1.33	1.62	2.20	2.78	1.31	1.49	1.66	2.02	2.75	3.48
1500	D	0.73	0.84	0.95	1.18	1.87	2.33	1.76	2.02	2.29	2.85	4.50	5.62	1.38	1.58	1.80	2.23	3.53	4.41
1650	B	0.68	0.78	0.88	1.09	1.55	2.33	0.86	0.98	1.10	1.34	1.82	2.30	1.08	1.23	1.37	1.67	2.27	2.88
1650	D	0.55	0.63	0.71	0.89	1.40	1.75	1.32	1.52	1.72	2.14	3.38	4.22	1.04	1.19	1.35	1.68	2.65	3.31
1800	B	0.57	0.65	0.74	0.92	1.30	1.96	0.73	0.83	0.92	1.12	1.53	1.93	0.91	1.03	1.15	1.41	1.91	2.42
1800	D	0.42	0.49	0.55	0.68	1.08	1.35	1.02	1.17	1.33	1.65	2.61	3.25	0.80	0.92	1.04	1.29	2.04	2.55
1950	B	0.49	0.56	0.63	0.78	1.11	1.67	0.62	0.70	0.79	0.96	1.30	1.65	0.77	0.88	0.98	1.20	1.63	2.06
1950	D	0.33	0.38	0.43	0.54	0.85	1.06	0.80	0.92	1.04	1.30	2.05	2.56	0.63	0.72	0.82	1.02	1.61	2.01
2100	B	0.42	0.48	0.54	0.67	0.95	1.44	0.53	0.61	0.68	0.83	1.12	1.42	0.67	0.76	0.85	1.03	1.40	1.78
2100	D	0.27	0.31	0.35	0.43	0.68	0.85	0.64	0.74	0.83	1.04	1.64	2.05	0.50	0.58	0.65	0.81	1.29	1.61
2250	B	0.37	0.42	0.47	0.59	0.83	1.25	0.46	0.53	0.59	0.72	0.98	1.24	0.58	0.66	0.74	0.90	1.22	1.55
2250	D	0.22	0.25	0.28	0.35	0.55	0.69	0.52	0.60	0.68	0.84	1.33	1.67	0.41	0.47	0.53	0.66	1.05	1.31
2400	B	0.32	0.37	0.42	0.52	0.73	1.10	0.41	0.46	0.52	0.63	0.86	1.09	0.51	0.58	0.65	0.79	1.07	1.36
2400	D	0.18	0.20	0.23	0.29	0.46	0.57	0.43	0.49	0.56	0.69	1.10	1.37	0.34	0.39	0.44	0.54	0.86	1.08

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] = 64	
			Midspan (in³)	Support (in³)		Midspan (ft-lb)	Support (ft-lb)	End (lbs/ft)	Interior (lbs/ft)
0.0120	0.0135	0.6178	0.0199	0.0253	0.02087	77.91	99.05	72	85
0.0135	0.0150	0.6878	0.0288	0.0288	0.02395	89.26	112.75	90	114
0.0150	0.0165	0.7578	0.0258	0.0322	0.02713	101.01	126.06	109	146
0.0180	0.0195	0.8978	0.0320	0.0392	0.03372	125.28	153.47	144	206
0.0240	0.0255	1.1678	0.0453	0.0533	0.05336	177.35	208.67	241	400
0.0300	0.0315	1.4478	0.0682	0.0674	0.06661	267.00	263.87	358	660

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	0.0240	0.0300	0.0120	0.0135	0.0150	0.0180	0.0240	0.0300	0.0120	0.0135	0.0150	0.0180	0.0240	0.0300
2.0	B	104	119	135	167	236	356	132	150	168	205	278	352	165	188	210	256	348	440
2.0	D	228	261	296	368	582	726	548	629	713	886	1402	1750	430	493	559	694	1099	1371
2.5	B	66	76	86	107	151	228	85	96	108	131	178	225	106	120	134	164	223	281
2.5	D	117	134	151	188	298	372	281	322	365	454	718	896	220	252	286	355	562	702
3.0	B	46	53	60	74	105	158	59	67	75	91	124	156	73	84	93	114	155	195
3.0	D	67	77	88	109	172	215	162	186	211	262	415	518	127	146	166	206	326	406
3.5	B	34	39	44	55	77	116	43	49	55	67	91	115	54	61	69	84	114	144
3.5	D	42	49	55	69	109	136	102	117	133	165	262	326	80	92	104	130	205	256
4.0	B	26	30	34	42	59	89	33	38	42	51	70	88	41	47	53	64	87	110
4.0	D	28	33	37	46	73	91	69	79	89	111	175	219	54	62	70	87	137	171
4.5	B	21	24	27	33	47	70	26	30	33	40	55	69	33	37	42	51	69	87
4.5	D	20	23	26	32	51	64	48	55	63	78	123	154	38	43	49	61	96	120
5.0	B	17	19	22	27	38	57	21	24	27	33	45	56	26	30	34	41	56	70
5.0	D	15	17	19	24	37	46	35	40	46	57	90	112	27	32	36	44	70	88
5.5	B	14	16	18	22	31	47	17	20	22	27	37	47	22	25	28	34	46	58
5.5	D	11	13	14	18	28	35	26	30	34	43	67	84	21	24	27	33	53	66
6.0	B	12	13	15	19	26	40	15	17	19	23	31	39	18	21	23	28	39	49
6.0	D	8	10	11	14	22	27	20	23	26	33	52	65	16	18	21	26	41	51
6.5	B	10	11	13	16	22	34	13	14	16	19	26	33	16	18	20	24	33	42
6.5	D	7	8	9	11	17	21	16	18	21	26	41	51	13	14	16	20	32	40
7.0	B	8	10	11	14	19	29	11	12	14	17	23	29	13	15	17	21	28	36
7.0	D	5	6	7	9	14	17	13	15	17	21	33	41	10	12	13	16	26	32
7.5	B	7	8	10	12	17	25	9	11	12	15	20	25	12	13	15	18	25	31
7.5	D	4	5	6	7	11	14	10	12	14	17	27	33	8	9	11	13	21	26
8.0	B	6	7	8	10	15	22	8	9	11	13	17	22	10	12	13	16	22	27
8.0	D	4	4	5	6	9	11	9	10	11	14	22	27	7	8	9	11	17	21