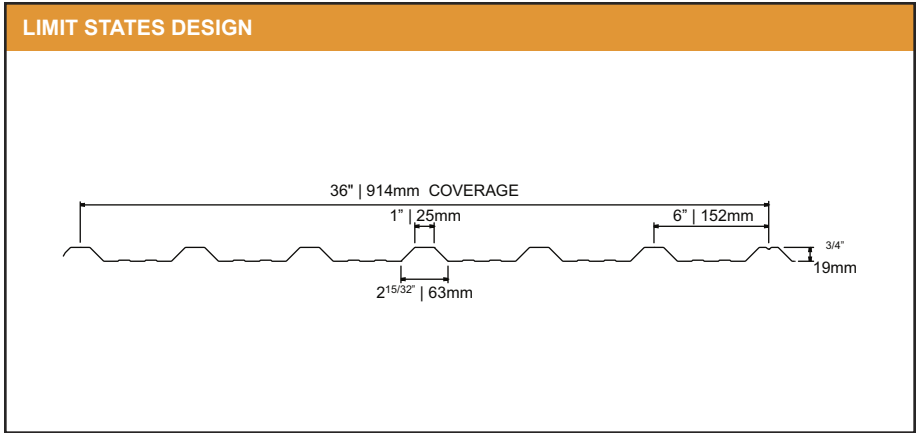


- Properties and loads are based on Grade 550 Steel with a minimum yield stress of 550 MPa and a maximum stress under factored loads of 324 MPa.
- Figures in Row B indicate the load capacity based on strength. Strength capacity B should be checked against [Specified Live Load] + [0.833 x Specified Dead Load].
- 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).
- Specified web crippling capacity should be checked against specified load at support location.



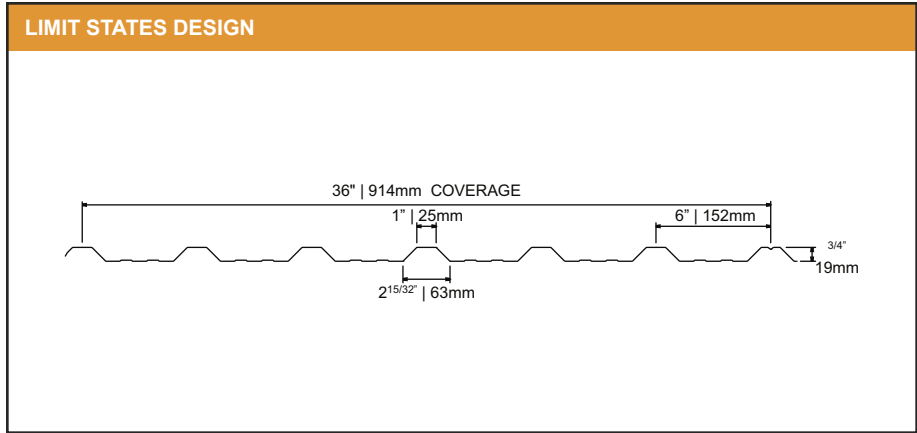
PHYSICAL PROPERTIES | Per Metre Width in accordance with CSA Specification S136-94.

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 x 10 ³)	Factored Resistance Moment		Specified Crippling Bearing [mm] = 64	
			Midspan (mm ³ x 10 ³)	Support (mm ³ x 10 ³)		Midspan (N-m)	Support (N-m)	End (N/m)	Interior (N/m)
0.305	0.343	2.71	1.075	0.968	17.316	348	314	1897	3036
0.343	0.381	3.02	1.258	1.140	20.115	408	369	2335	3721
0.381	0.419	3.31	1.452	1.328	22.997	470	430	2817	4480
0.457	0.495	3.92	1.849	1.731	28.869	599	561	3882	6159
0.610	0.648	5.12	2.710	2.543	39.083	878	824	6421	10230

LOAD TABLE | Maximum Specified Uniformly Distributed Load in kN/m² (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	0.305	0.343	0.457	0.610	0.305	0.343	0.457	0.610		
500	B	7.43	8.70	10.04	12.78	18.73	6.69	7.88	9.18	11.96	17.58	8.36	9.85	11.47	14.96	21.97
500	D	12.00	13.94	15.93	20.00	27.08	28.90	33.57	38.38	48.18	65.23	22.65	26.32	30.08	37.77	51.13
600	B	5.16	6.04	6.97	8.88	13.01	4.65	5.47	6.37	8.31	12.21	5.81	6.84	7.97	10.39	15.26
600	D	6.94	8.07	9.22	11.58	15.67	16.73	19.43	22.21	27.88	37.75	13.11	15.23	17.41	21.86	29.59
700	B	3.79	4.44	5.12	6.52	9.56	3.41	4.02	4.68	6.10	8.97	4.27	5.03	5.85	7.63	11.21
700	D	4.37	5.08	5.81	7.29	9.87	10.53	12.24	13.99	17.56	23.77	8.26	9.59	10.96	13.76	18.63
800	B	2.90	3.40	3.92	4.99	7.32	2.61	3.08	3.59	4.67	6.87	3.27	3.85	4.48	5.84	8.58
800	D	2.93	3.40	3.89	4.88	6.61	7.06	8.20	9.37	11.76	15.93	5.53	6.42	7.34	9.22	12.48
900	B	2.29	2.68	3.10	3.94	5.78	2.07	2.43	2.83	3.69	5.43	2.58	3.04	3.54	4.62	6.78
900	D	2.06	2.39	2.73	3.43	4.64	4.96	5.76	6.58	8.26	11.19	3.88	4.51	5.16	6.48	8.77
1000	B	1.86	2.17	2.51	3.20	4.68	1.67	1.97	2.29	2.99	4.39	2.09	2.46	2.87	3.74	5.49
1000	D	1.50	1.74	1.99	2.50	3.39	3.61	4.20	4.80	6.02	8.15	2.83	3.29	3.76	4.72	6.39
1100	B	1.54	1.80	2.07	2.64	3.87	1.38	1.63	1.90	2.47	3.63	1.73	2.04	2.37	3.09	4.54
1100	D	1.13	1.31	1.50	1.88	2.54	2.71	3.15	3.60	4.53	6.13	2.13	2.47	2.83	3.55	4.80
1200	B	1.29	1.51	1.74	2.22	3.25	1.16	1.37	1.59	2.08	3.05	1.45	1.71	1.99	2.60	3.81
1200	D	0.87	1.01	1.15	1.45	1.96	2.09	2.43	2.78	3.49	4.72	1.64	1.90	2.18	2.73	3.70
1300	B	1.10	1.29	1.48	1.89	2.77	0.99	1.17	1.36	1.77	2.60	1.24	1.46	1.70	2.21	3.25
1300	D	0.68	0.79	0.91	1.14	1.54	1.64	1.91	2.18	2.74	3.71	1.29	1.50	1.71	2.15	2.91
1400	B	0.95	1.11	1.28	1.63	2.39	0.85	1.01	1.17	1.53	2.24	1.07	1.26	1.46	1.91	2.80
1400	D	0.55	0.63	0.73	0.91	1.23	1.32	1.53	1.75	2.20	2.97	1.03	1.20	1.37	1.72	2.33
1500	B	0.83	0.97	1.12	1.42	2.08	0.74	0.88	1.02	1.33	1.95	0.93	1.09	1.27	1.66	2.44
1500	D	0.44	0.52	0.59	0.74	1.00	1.07	1.24	1.42	1.78	2.42	0.84	0.97	1.11	1.40	1.89
1600	B	0.73	0.85	0.98	1.25	1.83	0.65	0.77	0.90	1.17	1.72	0.82	0.96	1.12	1.46	2.15
1600	D	0.37	0.43	0.49	0.61	0.83	0.88	1.02	1.17	1.47	1.99	0.69	0.80	0.92	1.15	1.56
1700	B	0.64	0.75	0.87	1.11	1.62	0.58	0.68	0.79	1.04	1.52	0.72	0.85	0.99	1.29	1.90
1700	D	0.31	0.35	0.41	0.51	0.69	0.74	0.85	0.98	1.23	1.66	0.58	0.67	0.77	0.96	1.30

- 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.
- 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].
- 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).
- Specified web crippling capacity should be checked against specified load at support location.



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/ft ²)	Section Modulus		Moment of Inertia Midspan (in ⁴)	Factored Resistance Moment		Specified Crippling Bearing [mm] = 2.5	
			Midspan (in ³)	Support (in ³)		Midspan (ft-lb)	Support (ft-lb)	End (lbs/ft)	Interior (lbs/ft)
0.0120	0.0135	0.6101	0.0200	0.0180	0.01268	78.03	70.47	130	208
0.0135	0.0150	0.6781	0.0234	0.0212	0.01473	91.61	83.00	160	255
0.0150	0.0165	0.7451	0.0270	0.0247	0.01684	105.71	96.70	193	307
0.0180	0.0195	0.8811	0.0344	0.0322	0.02114	134.68	126.00	266	422
0.0240	0.0255	1.1521	0.0504	0.0473	0.02862	197.32	185.18	440	701

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	0.0120	0.0135	0.0150	0.0180	0.0240	0.0120	0.0135	0.0150	0.0180	0.0240
2.0	B	104	122	141	180	263	94	111	129	168	247	117	138	161	210	309
	D	138	161	184	231	312	333	387	442	555	752	261	303	347	435	589
2.25	B	82	97	111	142	208	74	87	102	133	195	93	109	127	166	244
	D	97	113	129	162	219	234	272	311	390	528	183	213	244	306	414
2.5	B	67	78	90	115	168	60	71	83	108	158	75	89	103	134	198
	D	71	82	94	118	160	171	198	226	284	385	134	155	178	223	302
2.75	B	55	65	75	95	139	50	59	68	89	131	62	73	85	111	163
	D	53	62	71	89	120	128	149	170	214	289	100	117	133	157	227
3.0	B	46	54	63	80	117	42	49	57	75	110	52	61	72	93	137
	D	41	48	54	68	92	99	115	131	165	223	77	90	103	129	175
3.25	B	40	46	53	68	100	36	42	49	64	94	44	52	61	80	117
	D	32	37	43	54	72	77	90	103	129	175	61	70	81	101	137
3.5	B	34	40	46	59	86	31	36	42	55	81	38	45	53	69	101
	D	26	30	34	43	58	62	72	83	104	140	49	57	65	81	110
3.75	B	30	35	40	51	75	27	31	37	48	70	33	39	46	60	88
	D	21	24	28	35	47	51	59	67	84	114	40	46	53	66	89
4.0	B	26	31	35	45	66	23	28	32	42	62	29	35	40	53	77
	D	17	20	23	29	39	42	48	55	69	94	33	38	43	54	74
4.25	B	23	27	31	40	58	21	25	29	37	55	26	31	36	47	68
	D	14	17	19	24	33	35	40	46	58	78	27	32	36	45	61
4.5	B	21	24	28	35	52	19	22	25	33	49	23	27	32	42	61
	D	12	14	16	20	27	29	34	39	49	66	23	27	30	38	52
4.75	B	19	22	25	32	47	17	20	23	30	44	21	25	29	37	55
	D	10	12	14	17	23	25	29	33	41	56	19	23	26	32	44
5.0	B	17	20	23	29	42	15	18	21	27	40	19	22	26	34	49
	D	9	10	12	15	20	21	25	28	36	48	17	19	22	28	38