

Section Properties

(Per Foot of Width)

Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia Mid Span (in ⁴)	Specified Web Crippling Data (lb)			
			Mid Span (in ³)	Support (in ³)		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.0135	0.73	80	0.0340	0.0278	0.0455	28.8	7.21	57.3	9.73
0.0150	0.80	33	0.0428	0.0364	0.0564	17.2	4.31	34.1	5.80
0.0180	0.95	50	0.0509	0.0432	0.0673	39.3	9.81	77.4	13.2
0.0240	1.25	33	0.0777	0.0674	0.0938	48.9	12.2	95.7	16.3
0.0300	1.55	33	0.101	0.0867	0.117	79.4	19.9	155	26.3

Load Table

Live Load Factor = 1.4; Importance Factor (I_{W-SLS}) = 0.75; Importance Factor (I_{W-ULS}) = 1.0

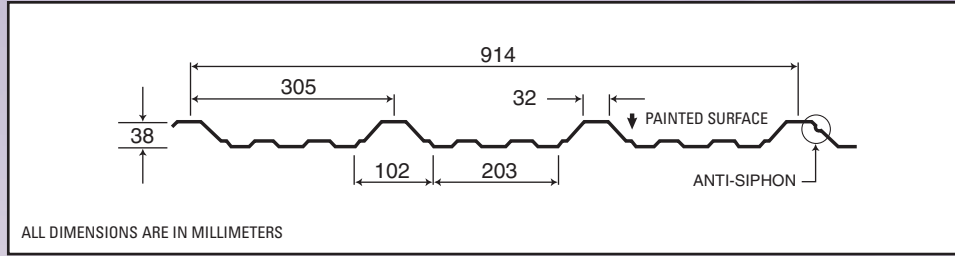
Maximum Specified Uniformly Distributed Loads in psf

Span (ft.)		1-Span Base Steel Thickness (in.)					2-Span Base Steel Thickness (in.)					3-Span Base Steel Thickness (in.)				
		0.0135	0.0150	0.0180	0.0240	0.0300	0.0135	0.0150	0.0180	0.0240	0.0300	0.0135	0.0150	0.0180	0.0240	0.0300
2'-0"	S	225	151	273	275	359	180	129	231	238	306	205	161	289	298	383
	D	661	819	979	1364	1702	1586	1967	2349	3273	4086	1249	1549	1850	2577	3218
3'-0"	S	114	67	121	122	159	93	57	103	106	136	116	71	128	132	170
	D	196	243	290	404	504	470	583	696	970	1211	370	459	548	764	953
3'-6"	S	83	49	89	90	117	68	42	75	78	100	85	52	94	97	125
	D	123	153	183	254	318	296	367	438	611	762	233	289	345	481	600
4'-0"	S	64	38	68	69	90	52	32	58	60	77	65	40	72	74	96
	D	83	102	122	170	213	198	246	294	409	511	156	194	231	322	402
4'-6"	S	50	30	54	54	71	41	25	46	47	61	51	32	57	59	76
	D	58	72	86	120	149	139	173	206	287	359	110	136	162	226	282
5'-0"	S	41	24	44	44	57	33	21	37	38	49	42	26	46	48	61
	D	42	52	63	87	109	102	126	150	209	261	80	99	118	165	206
5'-6"	S	34	20	36	36	47	28	17	31	31	41	34	21	38	39	51
	D	32	39	47	66	82	76	95	113	157	196	60	74	89	124	155
6'-0"	S	28	17	30	31	40	23	14	26	26	34	29	18	32	33	43
	D	24	30	36	51	63	59	73	87	121	151	46	57	69	95	119
6'-6"	S	24	14	26	26	34	20	12	22	23	29	25	15	27	28	36
	D	19	24	29	40	50	46	57	68	95	119	36	45	54	75	94
7'-0"	S	21	12	22	22	29	17	10	19	19	25	21	13	24	24	31
	D	15	19	23	32	40	37	46	55	76	95	29	36	43	60	75
7'-6"	S	18	11	19	20	25	15		16	17	22	19	11	21	21	27
	D	13	16	19	26	32	30		45	62	77	24	29	35	49	61
8'-0"	S	16		17	17	22	13		14	15	19	16	10	18	19	24
	D	10		15	21	27	25		37	51	64	20	24	29	40	50

Notes:

1. Steel conforms to ASTM A653.
2. Section properties are in accordance with CSA-S136-07.
3. Values in row "S" are based on strength.
4. Values in row "D" are based on a deflection limit of 1/180 of the span.
5. Web crippling not included in strength values. See example calculation in notes to designer.
6. Contact the sales department for stocked colours and gauges.
7. The load table contained on this data sheet was prepared by Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University of Waterloo, Ontario, Canada.





Section Properties

(Per Metre of Width)

Base Steel Thickness (mm)	Mass Z275 (kg/m ²)	Yield Stress (MPa)	Section Modulus		Deflection Moment of Inertia Mid Span (x 10 ⁶ mm ⁴)	Specified Web Crippling Data (kN)			
			Mid Span (x 10 ³ mm ³)	Support (x 10 ³ mm ³)		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.343	3.55	550	1.83	1.49	0.0621	0.420	0.105	0.833	0.142
0.381	3.91	230	2.30	1.95	0.0769	0.254	0.064	0.503	0.086
0.457	4.64	345	2.74	2.32	0.0919	0.573	0.143	1.13	0.192
0.610	6.09	230	4.17	3.62	0.128	0.721	0.180	1.41	0.240
0.762	7.54	230	5.45	4.66	0.160	1.17	0.293	2.28	0.388

Load Table

Live Load Factor = 1.4; Importance Factor (I_{w-SLS}) = 0.75; Importance Factor (I_{w-ULS}) = 1.0

Maximum Specified Uniformly Distributed Loads in kPa

Span (mm)		1-Span Base Steel Thickness (mm)					2-Span Base Steel Thickness (mm)					3-Span Base Steel Thickness (mm)				
		0.343	0.381	0.457	0.610	0.762	0.343	0.381	0.457	0.610	0.762	0.343	0.381	0.457	0.610	0.762
600	S	11.0	7.54	13.5	13.7	17.9	8.76	6.41	11.4	11.9	15.3	9.96	8.02	14.3	14.9	19.1
	D	33.2	41.1	49.2	68.5	85.5	79.7	98.7	118	164	205	62.7	77.7	92.9	129	162
800	S	7.09	4.24	7.59	7.71	10.1	5.78	3.61	6.43	6.69	8.61	7.23	4.51	8.04	8.36	10.8
	D	14.0	17.3	20.7	28.9	36.1	33.6	41.6	49.8	69.3	86.6	26.5	32.8	39.2	54.6	68.2
1000	S	4.54	2.71	4.86	4.94	6.45	3.70	2.31	4.12	4.28	5.51	4.63	2.89	5.14	5.35	6.89
	D	7.17	8.88	10.6	14.8	18.5	17.2	21.3	25.5	35.5	44.3	13.6	16.8	20.1	28.0	34.9
1200	S	3.15	1.89	3.37	3.43	4.48	2.57	1.60	2.86	2.97	3.83	3.21	2.00	3.57	3.72	4.78
	D	4.15	5.14	6.14	8.56	10.7	9.96	12.3	14.7	20.5	25.7	7.84	9.71	11.6	16.2	20.2
1400	S	2.31	1.39	2.48	2.52	3.29	1.89	1.18	2.10	2.18	2.81	2.36	1.47	2.62	2.73	3.51
	D	2.61	3.24	3.87	5.39	6.73	6.27	7.77	9.29	12.9	16.2	4.94	6.12	7.31	10.2	12.7
1500	S	2.02	1.21	2.16	2.19	2.87	1.64	1.03	1.83	1.90	2.45	2.06	1.28	2.29	2.38	3.06
	D	2.12	2.63	3.15	4.38	5.47	5.10	6.31	7.55	10.5	13.1	4.02	4.97	5.94	8.28	10.3
1600	S	1.77	1.06	1.90	1.93	2.52	1.45	0.90	1.61	1.67	2.15	1.81	1.13	2.01	2.09	2.69
	D	1.75	2.17	2.59	3.61	4.51	4.20	5.20	6.22	8.67	10.8	3.31	4.10	4.90	6.82	8.52
1800	S	1.40	0.84	1.50	1.52	1.99	1.14	0.71	1.27	1.32	1.70	1.43	0.89	1.59	1.65	2.13
	D	1.23	1.52	1.82	2.54	3.17	2.95	3.65	4.37	6.09	7.60	2.32	2.88	3.44	4.79	5.98
2000	S	1.13	0.68	1.21	1.23	1.61	0.93	0.58	1.03	1.07	1.38	1.16	0.72	1.29	1.34	1.72
	D	0.90	1.11	1.33	1.85	2.31	2.15	2.66	3.18	4.44	5.54	1.69	2.10	2.51	3.49	4.36
2200	S	0.94	0.56	1.00	1.02	1.33	0.76		0.85	0.88	1.14	0.96	0.60	1.06	1.11	1.42
	D	0.67	0.83	1.00	1.39	1.73	1.62		2.39	3.33	4.16	1.27	1.58	1.88	2.63	3.28
2400	S	0.79		0.84	0.86	1.12	0.64		0.71	0.74	0.96	0.80	0.50	0.89	0.93	1.20
	D	0.52		0.77	1.07	1.34	1.24		1.84	2.57	3.21	0.98	1.21	1.45	2.02	2.52

Notes:

- Steel conforms to ASTM A653M.
- Section properties are in accordance with CSA-S136-07.
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- Values in row "D" are based on a deflection limit of 1/180 of the span.
- Web crippling not included in strength values. See example calculation in notes to designer.
- Contact the sales department for stocked colours and gauges.
- The load table contained on this data sheet was prepared by Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University of Waterloo, Ontario, Canada.

