

**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 <sup>4</sup> )	Specified Web Crippling Data (lb)			
			Mid Span (in <sup>3</sup> )	Support (in <sup>3</sup> )		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.0120	0.61	33	0.0116	0.0110	0.0056	24.9	6.23	47.2	8.03
0.0150	0.68	33	0.0116	0.0108	0.0065	68.3	17.1	129	22.0
0.0180	0.88	33	0.0208	0.0207	0.0092	59.5	14.9	113	19.2
0.0240	1.16	33	0.0312	0.0304	0.0125	110	27.4	207	35.2
0.0300	1.43	33	0.0413	0.0386	0.0156	175	43.8	331	56.3

Live Load Factor = 1.5; Importance Factor (I<sub>W-SLS</sub>) = 0.90; Importance Factor (I<sub>W-ULS</sub>) = 0.80

**Load Table**

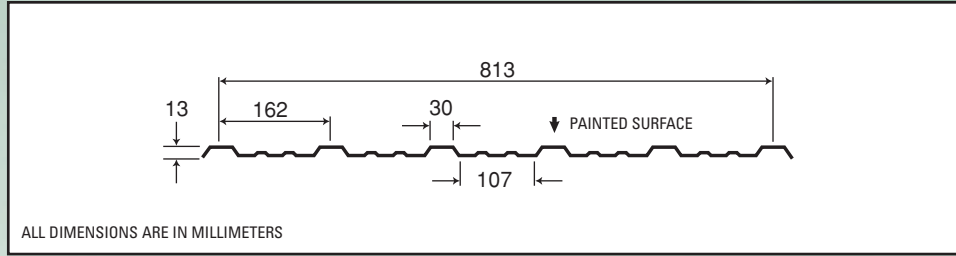
Maximum Specified Uniformly Distributed Loads in psf

Span (in.)		1-Span Base Steel Thickness (in.)					2-Span Base Steel Thickness (in.)					3-Span Base Steel Thickness (in.)				
		0.0120	0.0150	0.0180	0.0240	0.0300	0.0120	0.0150	0.0180	0.0240	0.0300	0.0120	0.0150	0.0180	0.0240	0.0300
16	S	108	229	193	289	383	102	213	192	282	358	128	266	240	352	448
	D	227	230	377	511	638	545	553	904	1226	1530	429	435	712	965	1205
20	S	69	147	123	185	245	65	136	123	180	229	82	170	154	225	287
	D	116	118	193	262	326	279	283	463	628	783	220	223	365	494	617
24	S	48	102	86	129	170	45	95	85	125	159	57	118	107	157	199
	D	67	68	112	151	189	161	164	268	363	453	127	129	211	286	357
30	S	31	65	55	82	109	29	61	55	80	102	36	76	68	100	127
	D	34	35	57	77	97	83	84	137	186	232	65	66	108	146	183
36	S	21	45	38	57	76	20	42	38	56	71	25	53	47	70	88
	D	20	20	33	45	56	48	49	79	108	134	38	38	63	85	106
42	S	16	33	28	42	56	15	31	28	41	52	19	39	35	51	65
	D	13	13	21	28	35	30	31	50	68	85	24	24	39	53	67
48	S			21	32	43	11	24	21	31	40	14	30	27	39	50
	D			14	19	24	20	20	33	45	57	16	16	26	36	45
54	S				25	34		19	17	25	31	11	23	21	31	39
	D				13	17		14	24	32	40	11	11	19	25	31
60	S					27		15	14	20	25			17	25	32
	D					12		10	17	23	29			14	18	23
66	S								11	17	21			14	21	26
	D								13	17	22			10	14	17
72	S									14	18				17	22
	D									13	17				11	13
78	S									12	15					19
	D									11	13					10

**Notes:**

- Steel conforms to ASTM A653.
- Section properties are in accordance with CSA-S136-07.
- Values in row "S" are based on strength.
- 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.





**Section Properties**

(Per Metre of Width)

Base Steel Thickness (mm)	Mass Z275 (kg/m <sup>2</sup> )	Yield Stress (MPa)	Section Modulus (x 10 <sup>3</sup> mm <sup>3</sup> )		Deflection Moment of Inertia Mid Span (x 10 <sup>6</sup> mm <sup>4</sup> )	Specified Web Crippling Data (kN)			
			Mid Span	Support		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.305	2.97	230	0.621	0.590	0.0076	0.368	0.092	0.697	0.118
0.381	3.30	230	0.625	0.580	0.0077	0.994	0.249	1.88	0.320
0.457	4.31	230	1.12	1.11	0.0126	0.878	0.219	1.66	0.283
0.610	5.66	230	1.67	1.63	0.0171	1.62	0.404	3.06	0.519
0.762	7.00	230	2.22	2.07	0.0213	2.58	0.645	4.88	0.830

**Load Table**

Live Load Factor = 1.5; Importance Factor (I<sub>w-SLS</sub>) = 0.90; Importance Factor (I<sub>w-ULS</sub>) = 0.80

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)				
		0.305	0.381	0.457	0.610	0.762	0.305	0.381	0.457	0.610	0.762	0.305	0.381	0.457	0.610	0.762
300	S	9.53	20.1	17.1	25.6	34.0	9.04	18.7	17.0	25.0	31.8	11.3	23.3	21.3	31.3	39.8
	D	27.0	27.4	44.8	60.8	75.9	64.8	65.8	108	146	182	51.0	51.8	84.7	115	143
400	S	5.36	11.3	9.61	14.4	19.1	5.09	10.5	9.58	14.1	17.9	6.36	13.1	12.0	17.6	22.4
	D	11.4	11.6	18.9	25.7	32.0	27.3	27.8	45.4	61.6	76.8	21.5	21.9	35.7	48.5	60.5
500	S	3.43	7.23	6.15	9.23	12.3	3.26	6.72	6.13	9.01	11.5	4.07	8.40	7.66	11.3	14.3
	D	5.83	5.92	9.68	13.1	16.4	14.0	14.2	23.2	31.5	39.3	11.0	11.2	18.3	24.8	31.0
600	S	2.38	5.02	4.27	6.41	8.51	2.26	4.67	4.26	6.25	7.95	2.83	5.83	5.32	7.82	9.94
	D	3.37	3.43	5.60	7.60	9.49	8.09	8.23	13.4	18.2	22.8	6.37	6.48	10.6	14.4	17.9
800	S	1.34	2.83	2.40	3.61	4.78	1.27	2.62	2.39	3.52	4.47	1.59	3.28	2.99	4.40	5.59
	D	1.42	1.45	2.36	3.21	4.00	3.41	3.47	5.67	7.70	9.60	2.69	2.73	4.47	6.06	7.56
1000	S	0.86	1.81	1.54	2.31	3.06	0.81	1.68	1.53	2.25	2.86	1.02	2.10	1.92	2.81	3.58
	D	0.73	0.74	1.21	1.64	2.05	1.75	1.78	2.90	3.94	4.92	1.38	1.40	2.29	3.10	3.87
1200	S			1.07	1.60	2.13	0.57	1.17	1.06	1.56	1.99	0.71	1.46	1.33	1.95	2.48
	D			0.70	0.95	1.19	1.01	1.03	1.68	2.28	2.85	0.80	0.81	1.32	1.80	2.24
1400	S				1.18	1.56		0.86	0.78	1.15	1.46	0.52	1.07	0.98	1.44	1.83
	D				0.60	0.75		0.65	1.06	1.44	1.79	0.50	0.51	0.83	1.13	1.41
1500	S					1.36		0.75	0.68	1.00	1.27			0.85	1.25	1.59
	D					0.61		0.53	0.86	1.17	1.46			0.68	0.92	1.15
1600	S					1.20			0.60	0.88	1.12			0.75	1.10	1.40
	D					0.50			0.71	0.96	1.20			0.56	0.76	0.95
1800	S									0.69	0.88				0.87	1.10
	D									0.68	0.84				0.53	0.66

**Notes:**

- Steel conforms to ASTM A653M.
- Section properties are in accordance with CSA-S136-07.
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