

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
0.030	2.32	33	0.485	0.492	0.866	186	46.5	382	64.9
0.036	2.78	33	0.621	0.624	1.07	277	69.4	564	95.9
0.048	3.68	33	0.882	0.898	1.46	518	129	1040	177

Load Table

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

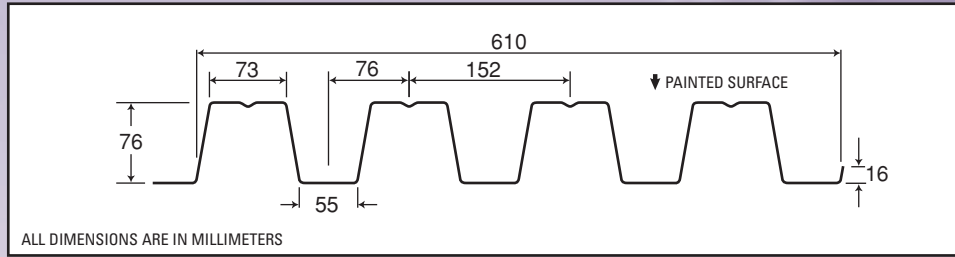
Maximum Specified Uniformly Distributed Loads in psf

Span (ft.)		1-Span Base Steel Thickness (in.)			2-Span Base Steel Thickness (in.)			3-Span Base Steel Thickness (in.)		
		0.030	0.036	0.048	0.030	0.036	0.048	0.030	0.036	0.048
6'-0"	S	191	244	346	193	245	353	242	306	441
	D	466	578	788	1119	1387	1891	881	1092	1489
6'-6"	S	162	208	295	165	209	301	206	261	376
	D	367	455	620	880	1091	1487	693	859	1171
7'-0"	S	140	179	255	142	180	259	178	225	324
	D	294	364	496	704	874	1191	555	688	938
7'-6"	S	122	156	222	124	157	226	155	196	282
	D	239	296	403	573	710	968	451	559	762
8'-0"	S	107	137	195	109	138	198	136	172	248
	D	197	244	332	472	585	798	372	461	628
8'-6"	S	95	122	173	96	122	176	120	153	220
	D	164	203	277	393	488	665	310	384	524
9'-0"	S	85	108	154	86	109	157	107	136	196
	D	138	171	233	331	411	560	261	324	441
9'-6"	S	76	97	138	77	98	141	96	122	176
	D	117	146	199	282	349	476	222	275	375
10'-0"	S	69	88	125	70	88	127	87	110	159
	D	101	125	170	242	300	408	190	236	322
10'-6"	S	62	80	113	63	80	115	79	100	144
	D	87	108	147	209	259	353	164	204	278
11'-0"	S	57	73	103	58	73	105	72	91	131
	D	76	94	128	182	225	307	143	177	242
11'-6"	S	52	66	94	53	67	96	66	83	120
	D	66	82	112	159	197	269	125	155	212
12'-0"	S	48	61	87	48	61	88	60	77	110
	D	58	72	98	140	173	236	110	137	186
12'-6"	S	44	56	80	45	56	81	56	71	102
	D	52	64	87	124	153	209	97	121	165
13'-0"	S	41	52	74	41	52	75	51	65	94
	D	46	57	77	110	136	186	87	107	146
13'-6"	S	38	48	68	38	48	70	48	60	87
	D	41	51	69	98	122	166	77	96	131
14'-0"	S	35	45	64	36	45	65	44	56	81
	D	37	45	62	88	109	149	69	86	117

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 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
0.762	11.3	230	26.0	26.4	1.18	2.74	0.686	5.63	0.957
0.914	13.6	230	33.3	33.4	1.46	4.09	1.02	8.32	1.41
1.22	18.0	230	47.4	48.2	2.00	7.63	1.91	15.3	2.61

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)		
		0.762	0.914	1.22	0.762	0.914	1.22	0.762	0.914	1.22
2000	S	7.70	9.85	14.0	7.81	9.89	14.3	9.76	12.4	17.8
	D	17.0	21.1	28.8	40.9	50.7	69.2	32.2	39.9	54.5
2200	S	6.36	8.14	11.6	6.46	8.17	11.8	8.07	10.2	14.7
	D	12.8	15.9	21.7	30.7	38.1	52.0	24.2	30.0	41.0
2400	S	5.35	6.84	9.73	5.42	6.87	9.90	6.78	8.59	12.4
	D	9.86	12.2	16.7	23.7	29.4	40.1	18.6	23.1	31.5
2500	S	4.93	6.30	8.97	5.00	6.33	9.12	6.25	7.91	11.4
	D	8.73	10.8	14.8	20.9	26.0	35.4	16.5	20.5	27.9
2600	S	4.56	5.83	8.29	4.62	5.85	8.44	5.78	7.32	10.5
	D	7.76	9.62	13.1	18.6	23.1	31.5	14.7	18.2	24.8
2800	S	3.93	5.02	7.15	3.99	5.05	7.27	4.98	6.31	9.09
	D	6.21	7.70	10.5	14.9	18.5	25.2	11.7	14.6	19.9
3000	S	3.42	4.38	6.23	3.47	4.40	6.34	4.34	5.49	7.92
	D	5.05	6.26	8.54	12.1	15.0	20.5	9.54	11.8	16.2
3200	S	3.01	3.85	5.47	3.05	3.86	5.57	3.81	4.83	6.96
	D	4.16	5.16	7.04	9.99	12.4	16.9	7.86	9.75	13.3
3400	S	2.66	3.41	4.85	2.70	3.42	4.93	3.38	4.28	6.17
	D	3.47	4.30	5.87	8.33	10.3	14.1	6.56	8.13	11.1
3500	S	2.51	3.21	4.58	2.55	3.23	4.66	3.19	4.04	5.82
	D	3.18	3.94	5.38	7.63	9.46	12.9	6.01	7.45	10.2
3600	S	2.38	3.04	4.32	2.41	3.05	4.40	3.01	3.82	5.50
	D	2.92	3.62	4.94	7.01	8.70	11.9	5.52	6.85	9.35
3800	S	2.13	2.73	3.88	2.16	2.74	3.95	2.70	3.42	4.94
	D	2.48	3.08	4.20	5.96	7.39	10.1	4.70	5.82	7.95
4000	S	1.92	2.46	3.50	1.95	2.47	3.56	2.44	3.09	4.46
	D	2.13	2.64	3.60	5.11	6.34	8.65	4.03	4.99	6.81

Notes:

- Steel conforms to ASTM A653M.
- Section properties are in accordance with CSA-S136-07.
- Values in row "S" are based on strength.
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- Web crippling not included in strength values. See example calculation in notes to designer.
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