

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	1.77	33	0.472	0.473	0.814	85.5	21.4	164	27.8
0.036	2.11	33	0.599	0.601	0.982	128	32.0	245	41.6
0.048	2.80	33	0.846	0.846	1.31	240	60.0	458	77.9

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

Load Table

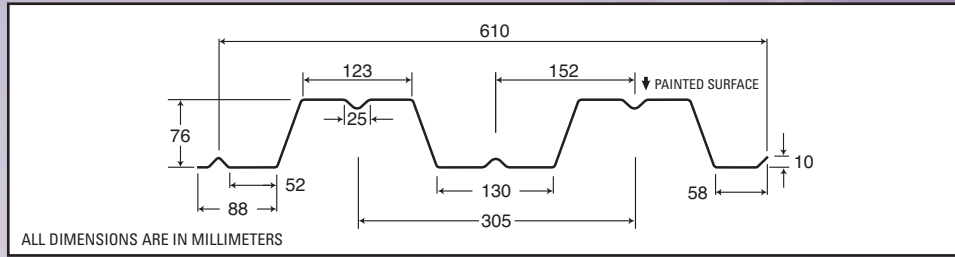
Maximum Specified Uniformly Distributed Loads in psf

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	186	235	332	186	236	330	232	295	412
	D	438	529	704	1052	1268	1690	828	999	1331
6'-6"	S	158	200	283	158	201	281	198	252	351
	D	345	416	554	827	998	1329	651	786	1047
7'-0"	S	136	173	244	137	174	242	171	217	303
	D	276	333	443	662	799	1064	522	629	838
7'-6"	S	119	150	213	119	151	211	149	189	264
	D	224	271	361	538	649	865	424	511	681
8'-0"	S	104	132	187	105	133	185	131	166	232
	D	185	223	297	444	535	713	349	421	561
8'-6"	S	92	117	166	93	118	164	116	147	205
	D	154	186	248	370	446	594	291	351	468
9'-0"	S	82	104	148	83	105	146	103	131	183
	D	130	157	209	312	376	501	245	296	394
9'-6"	S	74	94	133	74	94	131	93	118	164
	D	110	133	177	265	320	426	209	252	335
10'-0"	S	67	85	120	67	85	119	84	106	148
	D	95	114	152	227	274	365	179	216	287
10'-6"	S	61	77	109	61	77	108	76	96	135
	D	82	99	131	196	237	315	155	186	248
11'-0"	S	55	70	99	55	70	98	69	88	123
	D	71	86	114	171	206	274	134	162	216
11'-6"	S	51	64	90	51	64	90	63	80	112
	D	62	75	100	149	180	240	118	142	189
12'-0"	S	46	59	83	46	59	82	58	74	103
	D	55	66	88	131	159	211	104	125	166
12'-6"	S	43	54	77	43	54	76	54	68	95
	D	48	58	78	116	140	187	92	110	147
13'-0"	S	40	50	71	40	50	70	49	63	88
	D	43	52	69	103	125	166	81	98	131
13'-6"	S	37	46	66	37	47	65	46	58	81
	D	38	46	62	92	111	148	73	88	117
14'-0"	S	34	43	61	34	43	61	43	54	76
	D	34	42	55	83	100	133	65	79	105

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	8.63	230	25.4	25.4	1.09	1.26	0.315	2.41	0.410
0.914	10.3	230	32.1	32.3	1.34	1.89	0.472	3.61	0.614
1.22	13.7	230	45.5	45.5	1.79	3.54	0.885	6.76	1.15

Notes:

- Steel conforms to ASTM A653M.
- 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.

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

Load Table

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	7.50	9.50	13.5	7.51	9.54	13.4	9.39	11.9	16.8
	D	15.7	19.4	25.8	37.7	46.4	61.9	29.7	36.6	48.7
2200	S	6.20	7.85	11.1	6.21	7.89	11.1	7.76	9.86	13.9
	D	11.8	14.5	19.4	28.3	34.9	46.5	22.3	27.5	36.6
2400	S	5.21	6.60	9.34	5.21	6.63	9.34	6.52	8.28	11.7
	D	9.09	11.2	14.9	21.8	26.9	35.8	17.2	21.2	28.2
2500	S	4.80	6.08	8.61	4.81	6.11	8.60	6.01	7.63	10.8
	D	8.04	9.91	13.2	19.3	23.8	31.7	15.2	18.7	25.0
2600	S	4.44	5.62	7.96	4.44	5.65	7.96	5.55	7.06	9.94
	D	7.15	8.81	11.7	17.2	21.1	28.2	13.5	16.6	22.2
2800	S	3.82	4.85	6.86	3.83	4.87	6.86	4.79	6.09	8.57
	D	5.73	7.05	9.39	13.7	16.9	22.6	10.8	13.3	17.8
3000	S	3.33	4.22	5.98	3.34	4.24	5.98	4.17	5.30	7.47
	D	4.65	5.73	7.64	11.2	13.8	18.3	8.80	10.8	14.4
3200	S	2.93	3.71	5.25	2.93	3.73	5.25	3.67	4.66	6.56
	D	3.84	4.72	6.29	9.21	11.3	15.1	7.25	8.93	11.9
3400	S	2.59	3.29	4.65	2.60	3.30	4.65	3.25	4.13	5.82
	D	3.20	3.94	5.25	7.67	9.45	12.6	6.04	7.44	9.92
3500	S	2.45	3.10	4.39	2.45	3.12	4.39	3.06	3.90	5.49
	D	2.93	3.61	4.81	7.04	8.66	11.5	5.54	6.82	9.09
3600	S	2.31	2.93	4.15	2.32	2.95	4.15	2.90	3.68	5.19
	D	2.69	3.32	4.42	6.47	7.96	10.6	5.09	6.27	8.35
3800	S	2.08	2.63	3.73	2.08	2.64	3.72	2.60	3.30	4.66
	D	2.29	2.82	3.76	5.50	6.77	9.02	4.33	5.33	7.10
4000	S	1.87	2.37	3.36	1.88	2.39	3.36	2.35	2.98	4.20
	D	1.96	2.42	3.22	4.71	5.80	7.73	3.71	4.57	6.09

