

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	2.06	33	0.375	0.397	0.677	139	34.9	286	48.7
0.036	2.46	33	0.485	0.503	0.880	208	52.0	423	71.9
0.048	3.27	33	0.675	0.724	1.27	388	97.1	780	133

Load Table

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

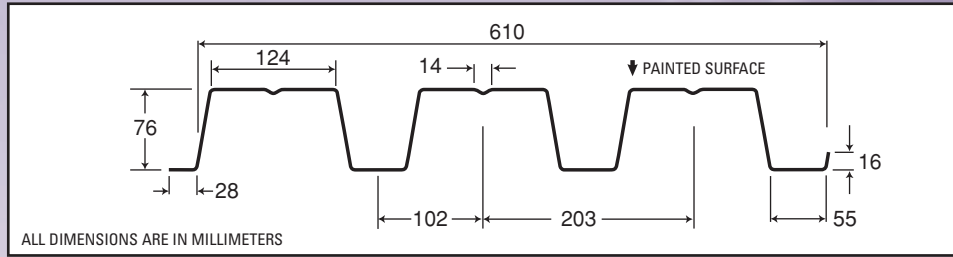
Maximum Specified Uniformly Distributed Loads in psf

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	147	191	265	156	197	284	195	247	355
	D	364	474	681	875	1138	1635	689	896	1288
6'-6"	S	126	162	226	133	168	242	166	210	303
	D	287	373	536	688	895	1286	542	705	1013
7'-0"	S	108	140	195	115	145	209	143	181	261
	D	230	298	429	551	716	1030	434	564	811
7'-6"	S	94	122	170	100	126	182	125	158	227
	D	187	243	349	448	582	837	353	459	659
8'-0"	S	83	107	149	88	111	160	110	139	200
	D	154	200	287	369	480	690	291	378	543
8'-6"	S	73	95	132	78	98	142	97	123	177
	D	128	167	240	308	400	575	242	315	453
9'-0"	S	66	85	118	69	88	126	87	110	158
	D	108	140	202	259	337	485	204	265	382
9'-6"	S	59	76	106	62	79	113	78	98	142
	D	92	119	172	220	287	412	174	226	324
10'-0"	S	53	69	95	56	71	102	70	89	128
	D	79	102	147	189	246	353	149	193	278
10'-6"	S	48	62	87	51	64	93	64	81	116
	D	68	88	127	163	212	305	129	167	240
11'-0"	S	44	57	79	46	59	85	58	73	106
	D	59	77	111	142	185	265	112	145	209
11'-6"	S	40	52	72	42	54	77	53	67	97
	D	52	67	97	124	162	232	98	127	183
12'-0"	S	37	48	66	39	49	71	49	62	89
	D	46	59	85	109	142	204	86	112	161
12'-6"	S	34	44	61	36	45	65	45	57	82
	D	40	52	75	97	126	181	76	99	142
13'-0"	S	31	41	56	33	42	61	42	53	76
	D	36	47	67	86	112	161	68	88	127
13'-6"	S	29	38	52	31	39	56	39	49	70
	D	32	42	60	77	100	144	60	79	113
14'-0"	S	27	35	49	29	36	52	36	45	65
	D	29	37	54	69	90	129	54	71	101

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	10.1	230	20.1	21.3	0.922	2.06	0.514	4.22	0.718
0.914	12.0	230	26.0	27.0	1.20	3.07	0.767	6.24	1.06
1.22	15.9	230	36.2	38.8	1.73	5.73	1.43	11.5	1.96

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	5.95	7.69	10.7	6.30	7.97	11.5	7.88	9.97	14.4
	D	13.3	17.3	24.9	32.0	41.6	59.8	25.2	32.7	47.1
2200	S	4.92	6.36	8.86	5.21	6.59	9.49	6.51	8.24	11.9
	D	10.0	13.0	18.7	24.0	31.2	44.9	18.9	24.6	35.4
2400	S	4.13	5.34	7.44	4.38	5.54	7.98	5.47	6.92	9.97
	D	7.71	10.0	14.4	18.5	24.1	34.6	14.6	18.9	27.2
2500	S	3.81	4.92	6.86	4.03	5.10	7.35	5.04	6.38	9.19
	D	6.82	8.86	12.8	16.4	21.3	30.6	12.9	16.8	24.1
2600	S	3.52	4.55	6.34	3.73	4.72	6.80	4.66	5.90	8.50
	D	6.06	7.88	11.3	14.5	18.9	27.2	11.5	14.9	21.4
2800	S	3.04	3.93	5.47	3.21	4.07	5.86	4.02	5.08	7.33
	D	4.85	6.31	9.08	11.7	15.1	21.8	9.17	11.9	17.2
3000	S	2.65	3.42	4.76	2.80	3.54	5.11	3.50	4.43	6.38
	D	3.94	5.13	7.38	9.47	12.3	17.7	7.46	9.70	14.0
3200	S	2.33	3.01	4.19	2.46	3.11	4.49	3.08	3.89	5.61
	D	3.25	4.23	6.08	7.80	10.1	14.6	6.14	7.99	11.5
3400	S	2.06	2.66	3.71	2.18	2.76	3.97	2.73	3.45	4.97
	D	2.71	3.52	5.07	6.50	8.46	12.2	5.12	6.66	9.58
3500	S	1.94	2.51	3.50	2.06	2.60	3.75	2.57	3.25	4.69
	D	2.48	3.23	4.65	5.96	7.75	11.2	4.70	6.11	8.78
3600	S	1.84	2.37	3.31	1.94	2.46	3.55	2.43	3.08	4.43
	D	2.28	2.97	4.27	5.48	7.12	10.3	4.31	5.61	8.07
3800	S	1.65	2.13	2.97	1.75	2.21	3.18	2.18	2.76	3.98
	D	1.94	2.52	3.63	4.66	6.06	8.72	3.67	4.77	6.86
4000	S	1.49	1.92	2.68	1.58	1.99	2.87	1.97	2.49	3.59
	D	1.66	2.16	3.11	3.99	5.19	7.47	3.15	4.09	5.88

