

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)	Mr (lb in)		Specified Web Crippling Data (lb)			
			Mid Span (in ³)	Support (in ³)		Mid Span	Support	Pe1	Pe2	Pi1	Pi2
0.0180	0.92	33	0.0432	0.0432	0.0137	1281.6	1281.6	146.6	36.32	292.6	50.02
0.0240	1.22	33	0.0616	0.0616	0.0181	1828.5	1828.5	269.3	67.15	533.1	90.45
0.0300	1.53	33	0.0759	0.0759	0.0226	2253.9	2253.9	430.3	107.6	846.2	143.9

Load Table

Live Load Factor = 1.5; Importance Factor (I_{s-sls}) = 0.90; Importance Factor (I_{s-uls}) = 1.0

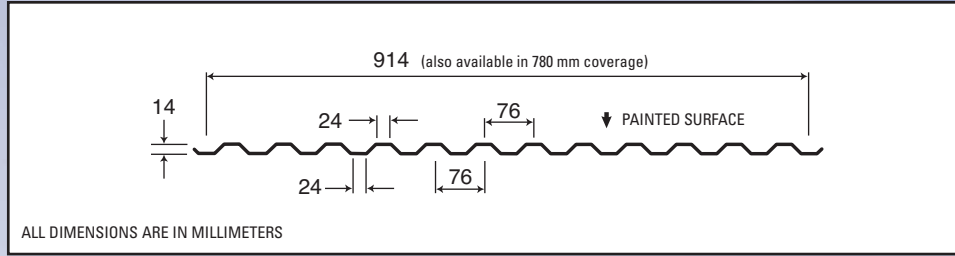
Maximum Specified Uniformly Distributed Loads in psf

Span (ft.)		1-Span Base Steel Thickness (in.)			2-Span Base Steel Thickness (in.)			3-Span Base Steel Thickness (in.)		
		0.0180	0.0240	0.0300	0.0180	0.0240	0.0300	0.0180	0.0240	0.0300
2'-0"	S	142	203	250	142	203	250	178	254	313
	D	124	165	205	311	413	514	235	311	387
2'-3"	S	113	161	198	113	161	198	141	201	247
	D	87	116	144	219	290	361	165	218	272
2'-6"	S	91	130	160	91	130	160	114	163	200
	D	64	84	105	159	211	263	120	159	198
2'-9"	S	75	107	132	75	107	132	94	134	166
	D	48	63	79	120	159	198	90	120	149
3'-0"	S	63	90	111	63	90	111	79	113	139
	D	37	49	61	92	122	152	70	92	115
3'-3"	S	54	77	95	54	77	95	67	96	119
	D	29	38	48	73	96	120	55	72	90
3'-6"	S	46	66	82	46	66	82	58	83	102
	D	23	31	38	58	77	96	44	58	72
3'-9"	S	41	58	71	41	58	71	51	72	89
	D	19	25	31	47	63	78	36	47	59
4'-0"	S	36	51	63	36	51	63	45	63	78
	D	16	21	26	39	52	64	29	39	48
4'-3"	S	32	45	55	32	45	55	39	56	69
	D	13	17	21	32	43	54	24	32	40
4'-6"	S	28	40	49	28	40	49	35	50	62
	D	11	14	18	27	36	45	21	27	34
4'-9"	S	25	36	44	25	36	44	32	45	55
	D	9	12	15	23	31	38	18	23	29
5'-0"	S	23	33	40	23	33	40	28	41	50
	D	8	11	13	20	26	33	15	20	25
5'-3"	S	21	29	36	21	29	36	26	37	45
	D	7	9	11	17	23	28	13	17	21
5'-6"	S	19	27	33	19	27	33	24	34	41
	D	6	8	10	15	20	25	11	15	19

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 1/240 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 XRS Engineered Solutions Inc., Burlington, 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)	Mr (Nm)		Specified Web Crippling Data (kN)			
			Mid Span (x 10 ³ mm ³)	Support (x 10 ³ mm ³)		Mid Span	Support	End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.457	4.45	230	2.320	2.320	0.0187	480.2	480.2	2.14	0.53	4.27	0.73
0.610	5.94	230	3.310	3.310	0.0248	685.2	685.2	3.93	0.98	7.78	1.32
0.762	7.42	230	4.080	4.080	0.0309	844.6	844.6	6.28	1.57	12.35	2.10

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 1/240 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 XRS Engineered Solutions Inc., Burlington, Ontario, Canada.

Live Load Factor = 1.5; Importance Factor (I_{S-SLS}) = 0.90; Importance Factor (I_{S-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)		
		0.457	0.610	0.762	0.457	0.610	0.762	0.457	0.610	0.762
610	S	6.88	9.82	12.11	6.88	9.82	12.11	8.60	12.28	15.13
	D	5.90	7.90	9.80	14.9	19.7	24.6	11.2	14.9	18.5
686	S	5.44	7.77	9.57	5.44	7.77	9.57	6.80	9.71	11.96
	D	4.18	5.54	6.90	10.46	13.87	17.27	7.88	10.45	13.02
762	S	4.41	6.29	7.76	4.41	6.29	7.76	5.51	7.87	9.70
	D	3.05	4.04	5.03	7.63	10.12	12.60	5.75	7.63	9.50
838	S	3.65	5.20	6.41	3.65	5.20	6.41	4.56	6.50	8.02
	D	2.29	3.04	3.78	5.74	7.61	9.47	4.32	5.73	7.14
914	S	3.07	4.37	5.39	3.07	4.37	5.39	3.83	5.47	6.74
	D	1.77	2.34	2.92	4.42	5.86	7.30	3.33	4.42	5.50
990	S	2.61	3.73	4.60	2.61	3.73	4.60	3.27	4.66	5.74
	D	1.39	1.84	2.29	3.48	4.61	5.75	2.62	3.48	4.33
1066	S	2.25	3.22	3.96	2.25	3.22	3.96	2.82	4.02	4.95
	D	1.11	1.48	1.84	2.79	3.70	4.60	2.10	2.79	3.47
1142	S	1.96	2.80	3.45	1.96	2.80	3.45	2.45	3.50	4.32
	D	0.91	1.20	1.50	2.27	3.01	3.74	1.71	2.27	2.82
1218	S	1.73	2.46	3.04	1.73	2.46	3.04	2.16	3.08	3.80
	D	0.75	0.99	1.23	1.87	2.48	3.09	1.41	1.87	2.33
1294	S	1.53	2.18	2.69	1.53	2.18	2.69	1.91	2.73	3.36
	D	0.62	0.83	1.03	1.56	2.07	2.57	1.17	1.56	1.94
1370	S	1.36	1.95	2.40	1.36	1.95	2.40	1.71	2.43	3.00
	D	0.52	0.70	0.87	1.31	1.74	2.17	0.99	1.31	1.63
1446	S	1.22	1.75	2.15	1.22	1.75	2.15	1.53	2.18	2.69
	D	0.45	0.59	0.74	1.12	1.48	1.84	0.84	1.12	1.39
1522	S	1.11	1.58	1.94	1.11	1.58	1.94	1.38	1.97	2.43
	D	0.38	0.51	0.63	0.96	1.27	1.58	0.72	0.96	1.19
1598	S	1.00	1.43	1.76	1.00	1.43	1.76	1.25	1.79	2.20
	D	0.33	0.44	0.55	0.83	1.10	1.37	0.62	0.83	1.03
1674	S	0.91	1.30	1.61	0.91	1.30	1.61	1.14	1.63	2.01
	D	0.29	0.38	0.47	0.72	0.95	1.19	0.54	0.72	0.90

