

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

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

Load Table

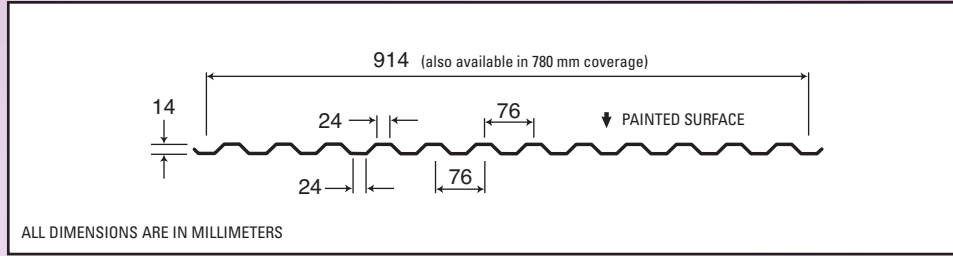
Maximum Specified Uniformly Distributed Loads in psf

Span (ft.)		1-Span Base Steel Thickness (in.)			2-Span Base Steel Thickness (in.)			3-Span Base Steel Thickness (in.)								
		0.0180	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"		25	36	44				25	36	44				32	45	55
		9	12	15				23	31	38				18	23	29
5'-0"		23	33	40				23	33	40				28	41	50
		8	11	13				20	26	33				15	20	25
5'-3"		21	29	36				21	29	36				26	37	45
		7	9	11				17	23	28				13	17	21
5'-6"		19	27	33				19	27	33				24	34	41
		6	8	10				15	20	25				11	15	19

Notes:

1. Steel conforms to ASTM A653.
2. Section properties are in accordance with CSA-S136-07.
3. Values in row "S" are based on strength.
4. Values in row "D" are based on a deflection limit of 1/240 of the span.
5. Web crippling not included in strength values. See example calculation in notes to designer.
6. Contact the sales department for stocked colours and gauges.
7. 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	Pe1	Pe2	Pi1	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 = 1.4; Importance Factor (I_{w-SLS}) = 0.75; Importance Factor (I_{w-SLS}) = 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	

