

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
0.0135	0.66	80	0.0432	0.0432	0.0137	2330.2	3106.9	147.6	36.91	283.2	48.15
0.0150	0.73	80	0.0616	0.0616	0.0181	3324.6	4432.8	185.3	46.33	355.1	60.37
0.0180	0.92	33	0.0429	0.0429	0.0136	1275.4	1275.4	152.2	38.04	291.1	49.49
0.0240	1.22	33	0.0616	0.0616	0.0181	1828.5	1828.5	280.9	70.22	536.0	91.12
0.0300	1.53	33	0.0758	0.0758	0.0226	2252.3	2252.3	446.6	111.6	850.6	144.6

Load Table

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

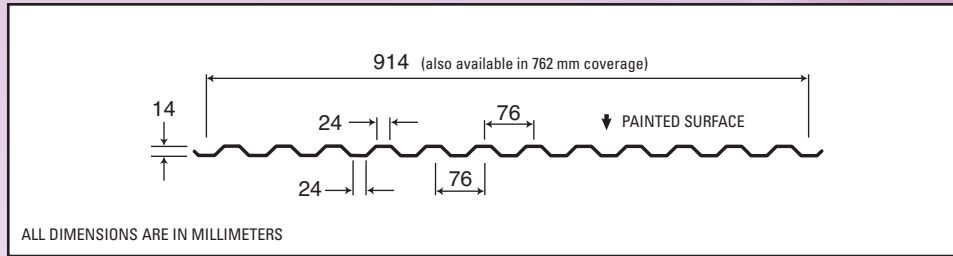
Maximum Specified Uniformly Distributed Loads in psf

Span (ft.)		1-Span Base Steel Thickness (in.)					2-Span Base Steel Thickness (in.)					3-Span Base Steel Thickness (in.)				
		0.0135	0.0150	0.0180	0.0240	0.0300	0.0135	0.0150	0.0180	0.0240	0.0300	0.0135	0.0150	0.0180	0.0240	0.0300
2'-0"	S	277	396	152	218	268	370	528	152	218	268	433	618	190	272	335
	D	199	264	198	264	328	498	660	495	660	822	375	498	373	498	620
2'-3"	S	219	313	120	172	212	292	417	120	172	212	342	489	150	215	265
	D	140	185	139	185	231	350	464	348	464	578	264	350	262	349	435
2'-6"	S	178	253	97	139	172	237	338	97	139	172	277	396	121	174	215
	D	102	135	101	135	168	255	338	254	338	421	192	255	191	255	317
2'-9"	S	147	209	80	115	142	196	279	80	115	142	229	327	100	144	177
	D	77	101	76	101	126	192	254	190	254	316	144	191	144	191	238
3'-0"	S	123	176	67	97	119	164	235	67	97	119	193	275	84	121	149
	D	59	78	59	78	97	148	196	147	196	244	111	147	111	147	184
3'-3"	S	105	150	57	82	102	140	200	57	82	102	164	234	72	103	127
	D	46	61	46	61	77	116	154	115	154	192	87	116	87	116	144
3'-6"	S	91	129	50	71	88	121	172	50	71	88	142	202	62	89	109
	D	37	49	37	49	61	93	123	92	123	153	70	93	70	93	116
3'-9"	S	79	113	43	62	76	105	150	43	62	76	123	176	54	77	95
	D	30	40	30	40	50	76	100	75	100	125	57	76	57	75	94
4'-0"	S	69	99	38	54	67	92	132	38	54	67	108	155	47	68	84
	D	25	33	25	33	41	62	83	62	83	103	47	62	47	62	77
4'-3"	S	61	88	34	48	59	82	117	34	48	59	96	137	42	60	74
	D	21	27	21	27	34	52	69	52	69	86	39	52	39	52	65
4'-6"	S	55	78	30	43	53	73	104	30	43	53	86	122	37	54	66
	D	17	23	17	23	29	44	58	43	58	72	33	44	33	44	54
4'-9"	S	49	70	27	39	48	66	94	27	39	48	77	110	34	48	59
	D	15	20	15	20	25	37	49	37	49	61	28	37	28	37	46
5'-0"	S	44	63	24	35	43	59	84	24	35	43	69	99	30	44	54
	D	13	17	13	17	21	32	42	32	42	53	24	32	24	32	40
5'-3"	S	40	57	22	32	39	54	77	22	32	39	63	90	28	39	49
	D	11	15	11	15	18	28	37	27	37	45	21	28	21	28	34
5'-6"	S	37	52	20	29	35	49	70	20	29	35	57	82	25	36	44
	D	10	13	10	13	16	24	32	24	32	40	18	24	18	24	30

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 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
0.343	3.22	550	2.320	2.320	0.0187	861.3	861.3	2.15	0.54	4.13	0.70
0.381	3.56	550	3.310	3.310	0.0248	1228.8	1228.8	2.70	0.68	5.18	0.88
0.457	4.45	230	2.309	2.309	0.0186	477.9	477.9	2.22	0.56	4.25	0.72
0.610	5.94	230	3.310	3.310	0.0248	685.2	685.2	4.10	1.02	7.82	1.33
0.762	7.42	230	4.077	4.077	0.0308	844.0	844.0	6.52	1.63	12.41	2.11

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.

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.

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

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)				
		0.343	0.381	0.457	0.610	0.762	0.343	0.381	0.457	0.610	0.762	0.343	0.381	0.457	0.610	0.762
610	S	13.23	18.87	7.34	10.52	12.96	13.23	18.87	7.34	10.52	12.96	16.53	23.59	9.17	13.15	16.20
	D	9.5	12.6	9.4	12.6	15.7	23.8	31.6	23.7	31.6	39.3	17.9	23.8	17.8	23.8	29.6
686	S	10.46	14.92	5.8	8.32	10.25	10.46	14.92	5.8	8.32	10.25	13.07	18.65	7.25	10.4	12.81
	D	6.68	8.86	6.64	8.86	11.04	16.73	22.19	16.64	22.18	27.63	12.61	16.72	12.54	16.72	20.82
762	S	8.48	12.09	4.7	6.74	8.31	8.48	12.09	4.7	6.74	8.31	10.6	15.12	5.88	8.43	10.38
	D	4.88	6.47	4.85	6.46	8.05	12.21	16.19	12.14	16.19	20.16	9.2	12.2	9.15	12.2	15.19
838	S	7.01	10.0	3.89	5.58	6.87	7.01	10.0	3.89	5.58	6.87	8.76	12.5	4.86	6.97	8.58
	D	3.67	4.86	3.64	4.86	6.05	9.18	12.17	9.13	12.17	15.16	6.92	9.17	6.88	9.17	11.42
914	S	5.89	8.41	3.27	4.69	5.77	5.89	8.41	3.27	4.69	5.77	7.36	10.51	4.09	5.86	7.22
	D	2.83	3.75	2.81	3.75	4.67	7.07	9.38	7.03	9.38	11.68	5.33	7.07	5.3	7.07	8.8
990	S	5.02	7.16	2.79	3.99	4.92	5.02	7.16	2.79	3.99	4.92	6.28	8.96	3.48	4.99	6.15
	D	2.22	2.95	2.21	2.95	3.67	5.57	7.38	5.53	7.38	9.19	4.2	5.56	4.17	5.56	6.93
1066	S	4.33	6.18	2.4	3.45	4.24	4.33	6.18	2.4	3.45	4.24	5.41	7.72	3.0	4.31	5.31
	D	1.78	2.36	1.77	2.36	2.94	4.46	5.91	4.43	5.91	7.36	3.36	4.46	3.34	4.46	5.55
1142	S	3.77	5.38	2.09	3.0	3.7	3.77	5.38	2.09	3.0	3.7	4.72	6.73	2.62	3.75	4.62
	D	1.45	1.92	1.44	1.92	2.39	3.63	4.81	3.61	4.81	5.99	2.73	3.62	2.72	3.62	4.51
1218	S	3.32	4.73	1.84	2.64	3.25	3.32	4.73	1.84	2.64	3.25	4.15	5.92	2.3	3.3	4.06
	D	1.19	1.58	1.19	1.58	1.97	2.99	3.96	2.97	3.96	4.94	2.25	2.99	2.24	2.99	3.72
1294	S	2.94	4.19	1.63	2.34	2.88	2.94	4.19	1.63	2.34	2.88	3.67	5.24	2.04	2.92	3.6
	D	1.0	1.32	0.99	1.32	1.64	2.49	3.31	2.48	3.31	4.12	1.88	2.49	1.87	2.49	3.1
1370	S	2.62	3.74	1.45	2.09	2.57	2.62	3.74	1.45	2.09	2.57	3.28	4.68	1.82	2.61	3.21
	D	0.84	1.11	0.83	1.11	1.39	2.1	2.79	2.09	2.79	3.47	1.58	2.1	1.57	2.1	2.61
1446	S	2.35	3.36	1.31	1.87	2.31	2.35	3.36	1.31	1.87	2.31	2.94	4.2	1.63	2.34	2.88
	D	0.71	0.95	0.71	0.95	1.18	1.79	2.37	1.78	2.37	2.95	1.35	1.79	1.34	1.79	2.22
1522	S	2.12	3.03	1.18	1.69	2.08	2.12	3.03	1.18	1.69	2.08	2.66	3.79	1.47	2.11	2.6
	D	0.61	0.81	0.61	0.81	1.01	1.53	2.03	1.52	2.03	2.53	1.15	1.53	1.15	1.53	1.91
1598	S	1.93	2.75	1.07	1.53	1.89	1.93	2.75	1.07	1.53	1.89	2.41	3.44	1.34	1.92	2.36
	D	0.53	0.70	0.53	0.70	0.87	1.32	1.76	1.32	1.75	2.19	1.0	1.32	0.99	1.32	1.65
1674	S	1.76	2.51	0.97	1.40	1.72	1.76	2.51	0.97	1.40	1.72	2.2	3.13	1.22	1.75	2.15
	D	0.46	0.61	0.46	0.61	0.76	1.15	1.53	1.14	1.53	1.9	0.87	1.15	0.86	1.15	1.43

