



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

