



Section Properties

(Per Metre of Width)

Base Steel Thickness (mm)	Mass Z275 (kg/m ²)	Yield Stress (MPa)	Section Modulus (x 10 ³ mm ³)		Deflection Moment of Inertia Mid Span (x 10 ⁶ mm ⁴)	Specified Web Crippling Data (kN)			
			Mid Span	Support		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.762	11.4	230	26.0	26.4	1.18	2.56	0.640	5.26	0.893
0.914	13.7	230	33.3	33.4	1.46	3.82	0.954	7.76	1.32
1.22	18.1	230	47.4	48.2	2.00	7.13	1.78	14.3	2.43
1.52	22.6	230	60.0	60.3	2.49	11.5	2.88	22.9	3.90

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 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	1.52	0.762	0.914	1.22	1.52	0.762	0.914	1.22	1.52
2000	S	7.19	9.19	13.1	16.6	7.29	9.23	13.3	16.6	9.11	11.5	16.6	20.8
	D	10.7	13.2	18.0	22.4	25.6	31.7	43.3	53.9	20.1	25.0	34.1	42.4
2200	S	5.94	7.59	10.8	13.7	6.03	7.63	11.0	13.7	7.53	9.54	13.8	17.2
	D	8.00	9.92	13.5	16.9	19.2	23.8	32.5	40.5	15.1	18.8	25.6	31.9
2400	S	4.99	6.38	9.08	11.5	5.06	6.41	9.24	11.6	6.33	8.01	11.6	14.4
	D	6.16	7.64	10.4	13.0	14.8	18.3	25.0	31.2	11.7	14.4	19.7	24.6
2500	S	4.60	5.88	8.37	10.6	4.67	5.91	8.52	10.6	5.83	7.38	10.6	13.3
	D	5.45	6.76	9.23	11.5	13.1	16.2	22.2	27.6	10.3	12.8	17.4	21.7
2600	S	4.25	5.44	7.74	9.80	4.31	5.46	7.87	9.84	5.39	6.83	9.84	12.3
	D	4.85	6.01	8.20	10.2	11.6	14.4	19.7	24.5	9.16	11.4	15.5	19.3
2800	S	3.67	4.69	6.67	8.45	3.72	4.71	6.79	8.49	4.65	5.89	8.49	10.6
	D	3.88	4.81	6.57	8.18	9.32	11.6	15.8	19.6	7.34	9.10	12.4	15.5
3000	S	3.19	4.08	5.81	7.36	3.24	4.10	5.91	7.39	4.05	5.13	7.39	9.24
	D	3.16	3.91	5.34	6.65	7.57	9.39	12.8	16.0	5.96	7.40	10.1	12.6
3200	S	2.81	3.59	5.11	6.47	2.85	3.61	5.20	6.50	3.56	4.51	6.50	8.12
	D	2.60	3.22	4.40	5.48	6.24	7.74	10.6	13.2	4.91	6.09	8.32	10.4
3400	S	2.49	3.18	4.52	5.73	2.52	3.19	4.60	5.75	3.15	3.99	5.76	7.19
	D	2.17	2.69	3.67	4.57	5.20	6.45	8.80	11.0	4.10	5.08	6.93	8.63
3500	S	2.35	3.00	4.27	5.41	2.38	3.01	4.34	5.43	2.98	3.77	5.43	6.79
	D	1.99	2.46	3.36	4.19	4.77	5.91	8.07	10.1	3.76	4.66	6.36	7.91
3600	S	2.22	2.84	4.04	5.11	2.25	2.85	4.11	5.13	2.81	3.56	5.13	6.42
	D	1.83	2.26	3.09	3.85	4.38	5.43	7.42	9.24	3.45	4.28	5.84	7.27
3800	S	1.99	2.55	3.62	4.59	2.02	2.56	3.69	4.61	2.52	3.20	4.61	5.76
	D	1.55	1.93	2.63	3.27	3.73	4.62	6.31	7.85	2.94	3.64	4.97	6.18
4000	S	1.80	2.30	3.27	4.14	1.82	2.31	3.33	4.16	2.28	2.88	4.16	5.20
	D	1.33	1.65	2.25	2.81	3.20	3.96	5.41	6.73	2.52	3.12	4.26	5.30

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 Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University of Waterloo, Ontario, Canada.
- Bundled deck produced from either Galvanneal or G90 Galvanized coated steel is susceptible to storage stain when exposed to the elements. This staining is superficial only and is not a valid reason for rejection of this product.

