



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)	Specified Web Crippling Data (kN)			
			Mid Span (x 10 ³ mm ³)	Support (x 10 ³ mm ³)		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.762	8.85	230	4.84	7.10	0.111	2.87	0.718	5.55	0.943
0.914	10.6	230	6.45	8.50	0.144	4.24	1.06	8.16	1.39

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.
- Web crippling not included in strength values. See example calculation in notes to designer.
- Oil canning may be present due to various factors. Oil canning is not a valid reason for rejection of this product.
- 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.

Live Load Factor = 1.4; Importance Factor (I_{w-SLS}) = 0.75; Importance Factor (I_{w-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)			
		0.762	0.914			0.762	0.914			0.762	0.914		
1200	S	3.97	5.30			5.83	6.98			6.21	8.28		
	D	7.44	9.62			17.9	23.1			14.1	18.2		
1400	S	2.92	3.89			4.28	5.13			4.56	6.08		
	D	4.69	6.06			11.3	14.5			8.86	11.5		
1500	S	2.54	3.39			3.73	4.47			3.97	5.30		
	D	3.81	4.93			9.14	11.8			7.20	9.31		
1600	S	2.24	2.98			3.28	3.93			3.49	4.66		
	D	3.14	4.06			7.53	9.74			5.93	7.67		
1800	S	1.77	2.36			2.59	3.10			2.76	3.68		
	D	2.20	2.85			5.29	6.84			4.17	5.39		
2000	S	1.43	1.91			2.10	2.51			2.24	2.98		
	D	1.61	2.08			3.86	4.99			3.04	3.93		
2200	S	1.18	1.58			1.74	2.08			1.85	2.46		
	D	1.21	1.56			2.90	3.75			2.28	2.95		
2400	S	0.99	1.33			1.46	1.75			1.55	2.07		
	D	0.93	1.20			2.23	2.89			1.76	2.27		
2500	S	0.92	1.22			1.34	1.61			1.43	1.91		
	D	0.82	1.06			1.98	2.55			1.56	2.01		
2600	S	0.85	1.13			1.24	1.49			1.32	1.76		
	D	0.73	0.95			1.76	2.27			1.38	1.79		
2800	S	0.73	0.97			1.07	1.28			1.14	1.52		
	D	0.59	0.76			1.41	1.82			1.11	1.48		

