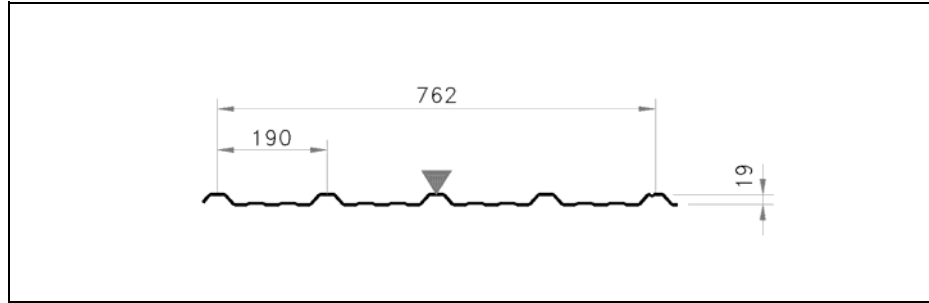


CLADDING

Grand Rib

Metric



PHYSICAL PROPERTIES

(PER METRE WIDTH)
In accordance with CSA
Specification S136-01

Base Steel Nominal Thickness (mm)	Nominal Thickness Z275 Coating (mm)	Mass with Coating (kg/m ²)	Section Modulus		Moment of Inertia Midspan x 10 ³ (mm ⁴)	Factored Resistance			
			Midspan	Support		Moment		Reaction	
							Midspan	Support	Ext.
0.30	0.34	3.19	0.93	0.84	16.3	192.5	173.9	1.1	1.7
0.38	0.42	3.94	1.24	1.16	21.0	256.7	240.1	1.7	2.6
0.46	0.50	4.69	1.59	1.49	25.6	329.1	308.4	2.4	3.6
0.61	0.65	6.10	2.30	2.05	34.1	476.1	424.4	4.1	6.3

LOAD TABLE

Maximum Specified
Uniformly Distributed
Load in kN/m² (kPa)

Support Spacing (mm)		1-Span				2-Span				3-Span			
		0.30	0.38	0.46	0.61	0.30	0.38	0.46	0.61	0.30	0.38	0.46	0.61
300	B	4.9	7.6	10.7	18.2	3.0	4.6	6.4	11.2	3.4	5.3	7.3	12.7
	D	52.3	67.4	82.1	109.4	130.9	168.7	205.6	273.9	98.7	127.1	155.0	206.4
450	B	3.3	5.0	7.1	12.1	2.0	3.1	4.3	7.5	2.3	3.5	4.8	8.5
	D	15.5	20.0	24.3	32.4	38.8	50.0	60.9	81.2	29.2	37.7	45.9	61.2
600	B	2.4	3.8	4.9	7.1	1.5	2.3	3.2	5.6	1.7	2.6	3.6	6.4
	D	6.5	8.4	10.3	13.7	16.4	21.1	25.7	34.2	12.3	15.9	19.4	25.8
750	B	1.8	2.4	3.1	4.5	1.2	1.8	2.6	4.0	1.4	2.1	2.9	5.0
	D	3.3	4.3	5.3	7.0	8.4	10.8	13.2	17.5	6.3	8.1	9.9	13.2
900	B	1.3	1.7	2.2	3.1	1.0	1.5	2.0	2.8	1.1	1.8	2.4	3.5
	D	1.9	2.5	3.0	4.1	4.8	6.2	7.6	10.1	3.7	4.7	5.7	7.6
1050	B	0.9	1.2	1.6	2.3	0.8	1.2	1.5	2.1	1.0	1.5	1.9	2.6
	D	1.2	1.6	1.9	2.6	3.1	3.9	4.8	6.4	2.3	3.0	3.6	4.8
1200	B	0.7	1.0	1.2	1.8	0.6	0.9	1.1	1.6	0.8	1.1	1.4	2.0
	D	0.8	1.1	1.3	1.7	2.0	2.6	3.2	4.3	1.5	2.0	2.4	3.2
1350	B	0.6	0.8	1.0	1.4	0.5	0.7	0.9	1.2	0.6	0.9	1.1	1.6
	D	0.6	0.7	0.9	1.2	1.4	1.9	2.3	3.0	1.1	1.4	1.7	2.3
1500	B	0.5	0.6	0.8	1.1	0.4	0.6	0.7	1.0	0.5	0.7	0.9	1.3
	D	0.4	0.5	0.7	0.9	1.0	1.3	1.6	2.2	0.8	1.0	1.2	1.7
1650	B	0.4	0.5	0.6	0.9		0.5	0.6	0.8	0.4	0.6	0.8	1.0
	D	0.3	0.4	0.5	0.7		1.0	1.2	1.6	0.6	0.8	0.9	1.2
1800	B		0.4	0.5	0.8		0.4	0.5	0.7	0.4	0.5	0.6	0.9
	D		0.3	0.4	0.5		0.8	1.0	1.3	0.5	0.6	0.7	1.0
1950	B		0.4	0.5	0.7			0.4	0.6		0.4	0.5	0.7
	D		0.2	0.3	0.4			0.7	1.0		0.5	0.6	0.8
2100	B			0.4	0.6			0.4	0.5		0.4	0.5	0.6
	D			0.2	0.3			0.6	0.8		0.4	0.5	0.6
2250	B				0.5			0.4				0.4	0.6
	D				0.3			0.6				0.4	0.5
2400	B				0.4			0.4				0.4	0.5
	D				0.2			0.5				0.3	0.4

1. Deflection values are based upon **service** loads.
2. Denotes web crippling governs.

Limit States Design

Notes

- 1 Properties and loads are based on Grade 230 Steel with a minimum yield stress of 230 MPa, and a maximum stress under Factored loads of 207 MPa.
- 2 Row B indicates the load capacity based on strength. Strength capacity should be checked against [Specified Live Load] + [0.833 x Specified Dead Load]
- 3 Row D indicates the load capacity based on a deflection of 1/180th span. For allowable deflection of 1/90th span, values in Row D can be doubled, but must not exceed the value in Row B.
- 4 A highlighted value indicates capacity has been reduced to account for web crippling.