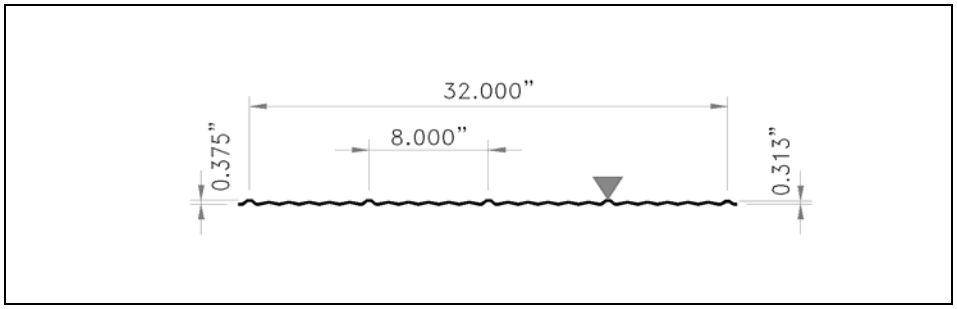
CLADDING

WeatherTight

Imperial



Limit States Design

PHYSICAL PROPERTIES

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

Base Steel Nominal Thickness	Nominal Thickness Z275 Coating	Mass with Coating	Section Modulus		Moment of Inertia	Factored Resistance			
						Moment		Reaction	
			Midspan	Support	Midspan	Midspan	Support	Ext.	Int.
(inches)	(inches)	(lb/ft^2)	(in^3)	(in^3)	(in^4)	(lb-in)	(lb-in)	(lbs)	(lbs)
0.012	0.013	0.613	0.0032	0.0030	0.0011	93.9	88.4	96	130
0.015	0.017	0.755	0.0039	0.0037	0.0014	116.0	110.5	144	192
0.018	0.020	0.898	0.0047	0.0045	0.0017	138.1	132.6	199	274

LOAD TABLE

Maximum Specified Uniformly Distributed Load in lb/ft^2 (psf)

Support Spacing		1-Span						2-Span						3-Span					
		0.012	0.015	0.018				0.012	0.015	0.018				0.012	0.015	0.018			
1.50	B	19	23	27				17	22	26				22	27	33			
	D	28	36	44				71	90	109				54	68	82			
2.00	B	10	13	15				10	12	15				12	15	18			
	D	12	15	18				30	38	46				23	29	35			
2.50	B			10						9					10	12			
	D			9						24					15	18			
3.00	B																		
	D																		
3.50	B																		
	D																		
4.00	B																		
	D																		
4.50	B																		
	D																		
5.00	B																		
	D																		
5.50	B																		
	D																		
6.00	B																		
	D																		
6.50	B																		
	D																		
7.00	B																		
	D																		
7.50	B																		
	D																		
8.00	B																		
	D																		
8.50	B																		
	D																		

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

Notes

1 Properties and loads are based on Grade 33 Steel with a minimum yield stress of 33,000 psi, and a maximum stress under Factored loads of 29,700 psi.

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.

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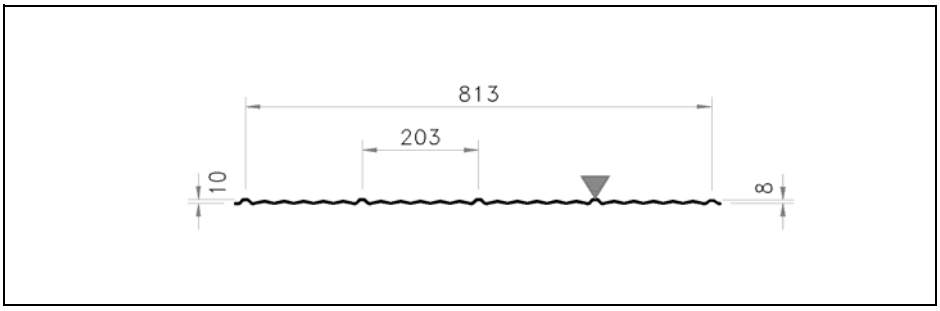
CLADDING

WeatherTight

Metric



Limit States Design

PHYSICAL PROPERTIES

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

Base Steel Nominal Thickness	Nominal Thickness Z275 Coating	Mass with Coating	Section Modulus		Moment of Inertia	Factored Resistance			
						Moment		Reaction	
			Midspan	Support	Midspan	Midspan	Support	Ext.	Int.
(mm)	(mm)	(kg/m^2)	x 10^3 (mm^3)	x 10^3 (mm^3)	x 10^3 (mm^4)	(Nm)	(Nm)	(kN)	(kN)
0.30	0.34	2.99	0.17	0.16	1.5	35.2	33.1	1.4	1.9
0.38	0.42	3.69	0.21	0.20	1.9	43.5	41.4	2.1	2.8
0.46	0.50	4.38	0.25	0.24	2.3	51.7	49.7	2.9	4.0

LOAD TABLE

Maximum Specified Uniformly Distributed Load in kN/m^2 (kPa)

Support Spacing (mm)		1-Span						2-Span						3-Span					
		0.30	0.38	0.46				0.30	0.38	0.46				0.30	0.38	0.46			
300	B	2.1	2.6	3.1				2.0	2.5	2.9				2.5	3.1	3.7			
	D	4.8	6.1	7.4				12.0	15.3	18.5				9.1	11.5	13.9			
450	B	0.9	1.1	1.4				0.9	1.1	1.3				1.1	1.4	1.6			
	D	1.4	1.8	2.2				3.6	4.5	5.5				2.7	3.4	4.1			
600	B	0.5	0.6	0.8				0.5	0.6	0.7				0.6	0.8	0.9			
	D	0.6	0.8	0.9				1.5	1.9	2.3				1.1	1.4	1.7			
750	B		0.4	0.5					0.4	0.5				0.4	0.5	0.6			
	D		0.4	0.5					1.0	1.2				0.6	0.7	0.9			
900	B															0.4			
	D															0.5			
1050	B																		
	D																		
1200	B																		
	D																		
1350	B																		
	D																		
1500	B																		
	D																		
1650	B																		
	D																		
1800	B																		
	D																		
1950	B																		
	D																		
2100	B																		
	D																		
2250	B																		
	D																		
2400	B																		
	D																		

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

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.

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