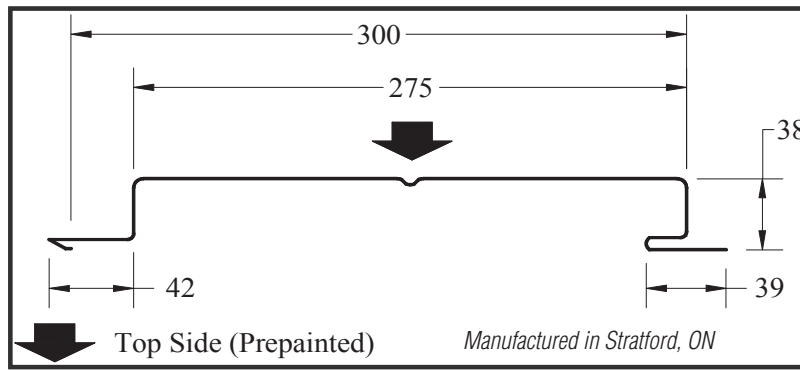


LIMIT STATES DESIGN



CLADDING
AD275R
AD275

Metric

AD275R as shown above, may be produced in base steel nominal thickness of 0.76mm and 0.91mm.
AD275 without minor rib, may be produced in base steel nominal thickness of 0.76mm and 0.91mm.

PHYSICAL PROPERTIES

(PER METRE WIDTH)
In accordance with CSA Specification S136-07

Base Steel Nominal Thickness (mm)	Nominal Thickness Z275 Coating (mm)	Mass with Coating (kg/m ²)	Section Modulus		Moment of Inertia (mm ⁴ x 10 ³)	Factored Resistance			
			Midspan (mm ³ x 10 ³)	Support (mm ³ x 10 ³)		Moment (N-m)		Reaction (kN)	
0.46	0.50	----	----	----	----	----	----	----	----
0.61	0.65	----	----	----	----	----	----	----	----
0.76	0.80	9.35	5.33	7.96	142.2	1103.3	1647.7	5.9	8.3
0.91	0.95	11.11	7.10	10.14	184.3	1469.7	2099.0	8.2	11.8
1.22	1.26	----	----	----	----	----	----	----	----

Note

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. Figures in Row B indicate the load capacity based on strength. Strength capacity B should be checked against [Specified Live Load]+[0.833 x Specified Dead Load].

3. Where cladding is subjected only to wind load, strength values may be increased by 7%.

4. Figures in row D indicate the load capacity based on 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. Deflection capacity should be checked against specified Load(s).

5. An * indicates capacity has been reduced to account for web crippling.

LOAD TABLE

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

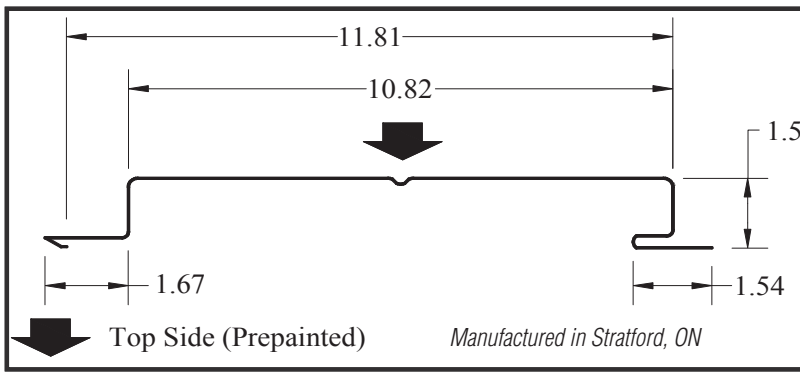
Support Spacing (mm)		1-Span Base Steel Nominal Thickness (mm)					2-Span Base Steel Nominal Thickness (mm)					3-Span Base Steel Nominal Thickness (mm)				
		0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22
1200	B			4.1	5.4				3.7*	5.2*				4.2*	6.0*	
	D			7.1	9.2				17.1	22.2				13.5	17.5	
1400	B			3.0	4.0				3.2*	4.5*				3.6*	5.1*	
	D			4.5	5.8				10.8	14.0				8.5	11.0	
1600	B			2.3	3.1				2.8*	3.9*				3.1*	4.5*	
	D			3.0	3.9				7.2	9.4				5.7	7.4	
1800	B			1.8	2.4				2.5*	3.5				2.8*	3.8	
	D			2.1	2.7				5.1	6.6				4.0	5.2	
2000	B			1.5	2.0				2.2	2.8				2.3	3.1	
	D			1.5	2.0				3.7	4.8				2.9	3.8	
2200	B			1.2	1.6				1.8	2.3				1.9	2.5	
	D			1.2	1.5				2.8	3.6				2.2	2.8	
2400	B			1.0	1.4				1.5	1.9				1.6	2.1	
	D			0.9	1.2				2.1	2.8				1.7	2.2	
2600	B				1.2				1.3	1.7				1.4	1.8	
	D				0.9				1.7	2.2				1.3	1.7	
2800	B								1.1	1.4				1.2	1.6	
	D								1.3	1.7				1.1	1.4	
3000	B									1.2				1.0	1.4	
	D									1.4				0.9	1.1	
3200	B									1.1					1.2	
	D									1.2					0.9	

In accordance with ongoing efforts to improve our products and their performance, Vicwest Building Products reserves the right to change without notice the specifications contained herein.

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LIMIT STATES DESIGN



CLADDING
AD275R
AD275

Imperial

AD275R as shown above, may be produced in base steel nominal thickness of 0.030" and 0.036".
AD275 without minor rib, may be produced in base steel nominal thickness of 0.030" and 0.036".

Note

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. Figures in Row B indicate the load capacity based on strength. Strength capacity B should be checked against [Specified Live Load]+[0.833 x Specified Dead Load].

3. Where cladding is subjected only to wind load, strength values may be increased by 7%.

4. Figures in row D indicate the load capacity based on 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. Deflection capacity should be checked against specified Load(s).

5. An * indicates capacity has been reduced to account for web crippling.

PHYSICAL PROPERTIES

(PER FOOT WIDTH) In accordance with CSA Specification S136-07

Base Steel Nominal Thickness (inches)	Nominal Thickness Z275 Coating (inches)	Mass with Coating (lb/ft ²)	Section Modulus		Moment of Inertia (inches ⁴)	Factored Resistance			
			Midspan (inches ³)	Support (inches ³)		Moment (lb-in)		Reaction (pounds)	
						Midspan (lb-in)	Support (lb-in)	Exterior (pounds)	Interior (pounds)
0.018	0.020	----	----	----	----	----	----	----	----
0.024	0.026	----	----	----	----	----	----	----	----
0.030	0.032	1.915	0.0991	0.1481	0.1041	2943.3	4398.6	404	569
0.036	0.038	2.275	0.1321	0.1886	0.1350	3923.4	5601.4	562	809
0.048	0.050	----	----	----	----	----	----	----	----

LOAD TABLE

Maximum Specified Uniformly Distributed Load in lb/ft² (psf)

Support Spacing		1-Span Base Steel Nominal Thickness (inches)					2-Span Base Steel Nominal Thickness (inches)					3-Span Base Steel Nominal Thickness (inches)				
		0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048
		4' - 0"	B			82	109				76*	108*				86*
	D			142	184				341	443				269	348	
4' - 6"	B			65	86				67*	96*				77*	109*	
	D			100	129				240	311				189	245	
5' - 0"	B			52	70				61*	86*				69*	98*	
	D			73	94				175	227				138	178	
5' - 6"	B			43	58				55*	78*				63*	89*	
	D			55	71				131	170				103	134	
6' - 0"	B			36	48				51*	69				57	76	
	D			42	55				101	131				80	103	
6' - 6"	B			31	41				46	59				48	64	
	D			33	43				80	103				63	81	
7' - 0"	B			27	36				40	51				42	56	
	D			27	34				64	83				50	65	
7' - 6"	B			23	31				35	44				36	48	
	D			22	28				52	67				41	53	
8' - 0"	B			20	27				31	39				32	43	
	D			18	23				43	55				34	44	
8' - 6"	B				24				27	34				28	38	
	D				19				36	46				28	36	
9' - 0"	B				22				24	31				25	34	
	D				16				30	39				24	31	

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