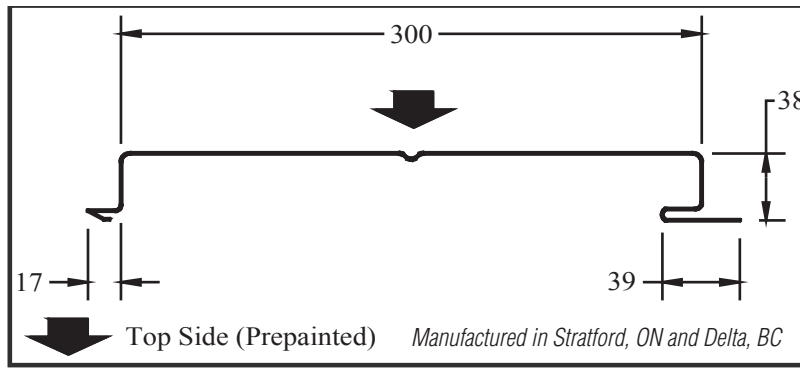


**LIMIT STATES DESIGN**



**CLADDING**  
**AD300R**  
**AD300SR**

Metric

AD300R as shown above, may be produced in base steel nominal thickness of 0.76mm, 0.91mm and 1.22mm.

AD300SR without minor rib, may be produced in base steel nominal thickness of 0.76mm, 0.91mm and 1.22mm.

**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 <sup>2</sup> )	Section Modulus		Moment of Inertia (mm <sup>4</sup> x 10 <sup>3</sup> )	Factored Resistance			
			Midspan (mm <sup>3</sup> x 10 <sup>3</sup> )	Support (mm <sup>3</sup> x 10 <sup>3</sup> )		Moment (N-m)		Reaction (kN)	
0.46	0.50	----	----	----	----	----	----	----	----
0.61	0.65	----	----	----	----	----	----	----	----
0.76	0.80	9.35	5.19	6.81	127.0	1074.3	1409.7	5.9	8.3
0.91	0.95	11.11	6.93	8.15	163.8	1434.5	1687.0	8.2	11.8
1.22	1.26	14.61	10.93	10.76	259.7	2262.5	2227.3	13.8	20.3

**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/m<sup>2</sup> (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			4.0	5.3	8.4			3.7*	5.2*	8.2			4.2*	6.0*	10.3*
	D			6.4	8.2	13.0			15.3	19.7	31.2			12.0	15.5	24.6
1400	B			2.9	3.9	6.2			3.2*	4.5*	6.1			3.6*	5.1*	7.6
	D			4.0	5.2	8.2			9.6	12.4	19.7			7.6	9.8	15.5
1600	B			2.2	3.0	4.7			2.8*	3.5	4.6			3.1*	4.4	5.8
	D			2.7	3.5	5.5			6.4	8.3	13.2			5.1	6.5	10.4
1800	B			1.8	2.4	3.7			2.3	2.8	3.7			2.8	3.5	4.6
	D			1.9	2.4	3.9			4.5	5.8	9.3			3.6	4.6	7.3
2000	B			1.4	1.9	3.0			1.9	2.2	3.0			2.2	2.8	3.7
	D			1.4	1.8	2.8			3.3	4.3	6.7			2.6	3.4	5.3
2200	B			1.2	1.6	2.5			1.6	1.9	2.5			1.8	2.3	3.1
	D			1.0	1.3	2.1			2.5	3.2	5.1			2.0	2.5	4.0
2400	B				1.3	2.1			1.3	1.6	2.1			1.6	2.0	2.6
	D				1.0	1.6			1.9	2.5	3.9			1.5	1.9	3.1
2600	B				1.1	1.8			1.1	1.3	1.8			1.3	1.7	2.2
	D				0.8	1.3			1.5	1.9	3.1			1.2	1.5	2.4
2800	B					1.5				1.1	1.5			1.1	1.4	1.9
	D					1.0				1.6	2.5			0.9	1.2	1.9
3000	B					1.3					1.3				1.2	1.6
	D					0.8					2.0				1.0	1.6
3200	B					1.2					1.2				1.1	1.5
	D					0.7					1.6				0.8	1.3

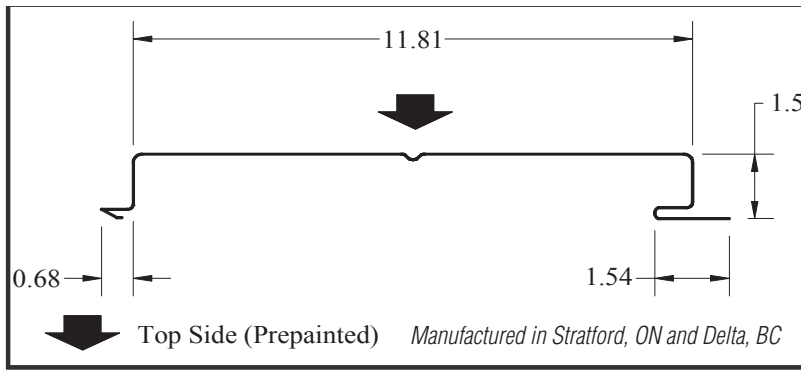
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VW00153EN11/17

**LIMIT STATES DESIGN**



**CLADDING**  
**AD300R**  
**AD300SR**

Imperial

AD300R as shown above, may be produced in base steel nominal thickness of 0.030", 0.036" and 0.048".  
AD300SR without minor rib, may be produced in base steel nominal thickness of 0.030", 0.036" and 0.048".

**Note**

- 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.
- 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].
- Where cladding is subjected only to wind load, strength values may be increased by 7%.
- 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).
- 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 <sup>2</sup> )	Section Modulus		Moment of Inertia (inches <sup>4</sup> )	Factored Resistance			
			Midspan (inches <sup>3</sup> )	Support (inches <sup>3</sup> )		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	0.0965	0.1267	0.0930	2866.1	3763.0	404	569
0.036	0.038	2.275	0.1289	0.1516	0.1199	3828.3	4502.5	562	809
0.048	0.050	2.992	0.2032	0.2001	0.1902	6035.0	5943.0	946	1391

**LOAD TABLE**

Maximum Specified Uniformly Distributed Load in lb/ft<sup>2</sup> (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			80	106	168			76*	108*	165			86*
	D			127	164	260			305	393	623			240	309	491
4' - 6"	B			63	84	132			67*	96*	130			77*	109*	163
	D			89	115	182			214	276	438			169	217	345
5' - 0"	B			51	68	107			61*	80	106			69*	98*	132
	D			65	84	133			156	201	319			123	158	251
5' - 6"	B			42	56	89			55*	66	87			63*	83	109
	D			49	63	100			117	151	240			92	119	189
6' - 0"	B			35	47	75			46	56	73			55	69	92
	D			38	49	77			90	116	185			71	92	145
6' - 6"	B			30	40	63			40	47	63			47	59	78
	D			30	38	61			71	92	145			56	72	114
7' - 0"	B			26	35	55			34	41	54			41	51	67
	D			24	31	48			57	73	116			45	58	92
7' - 6"	B			23	30	48			30	36	47			35	44	59
	D			19	25	39			46	60	95			36	47	74
8' - 0"	B				27	42			26	31	41			31	39	52
	D				20	32			38	49	78			30	39	61
8' - 6"	B				24	37			23	28	37			28	35	46
	D				17	27			32	41	65			25	32	51
9' - 0"	B				21	33			21	25	33			25	31	41
	D				14	23			27	35	55			21	27	43

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