

# CLADDING

## AD150

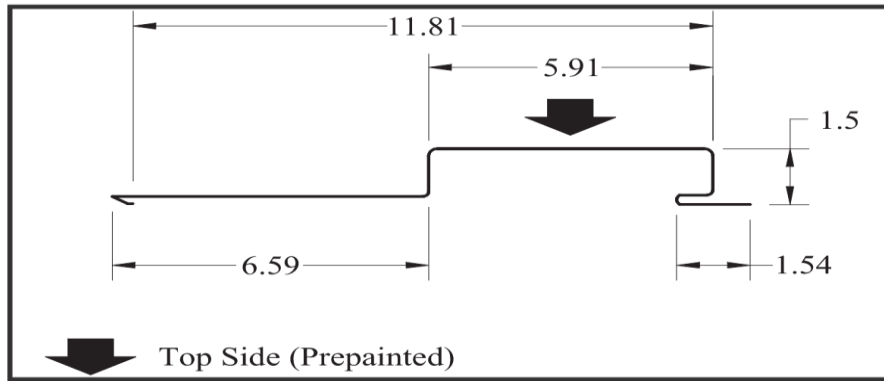
Imperial

### PHYSICAL PROPERTIES

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

### LOAD TABLE

Maximum Specified Uniformly Distributed Load in lb/ft<sup>2</sup> (psf)



### LIMIT STATES DESIGN

#### 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.

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		Reaction	
						Midspan (lb-in)	Support (lb-in)	Exterior (pounds)	Interior (pounds)
0.018	0.020	----	----	----	----	----	----	----	----
0.024	0.026	----	----	----	----	----	----	----	----
0.030	0.032	1.915	0.0952	0.1474	0.1049	2827.4	4377.8	397	569
0.036	0.038	2.275	0.1269	0.1985	0.1366	3768.9	5895.5	555	802
0.048	0.050	----	----	----	----	----	----	----	----

Support Spacing (ft)		1-Span Base Steel Nominal Thickness (inch)					2-Span Base Steel Nominal Thickness (inch)					3-Span Base Steel Nominal Thickness (inch)				
		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			79	105			76*	107*					86*
	D			143	187			344	448					271	353	
4'-6"	B			62	83			67*	95*					77*	108*	
	D			101	131			241	314					190	248	
5'-0"	B			50	67			61*	86*					69*	97*	
	D			73	96			176	229					139	181	
5'-6"	B			42	55			55*	78*					63*	87	
	D			55	72			132	172					104	136	
6'-0"	B			35	47			51*	71*					55	73	
	D			42	55			102	133					80	104	
6'-6"	B			30	40			46	62					46	62	
	D			33	43			80	104					63	82	
7'-0"	B			26	34			40	53					40	53	
	D			27	35			64	84					51	66	
7'-6"	B			22	30			35	47					35	47	
	D			22	28			52	68					41	53	
8'-0"	B				26			30	41					31	41	
	D				23			43	56					34	44	
8'-6"	B				23			27	36					27	36	
	D				19			36	47					28	37	
9'-0"	B				21			24	32					24	32	
	D				16			30	39					24	31	

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