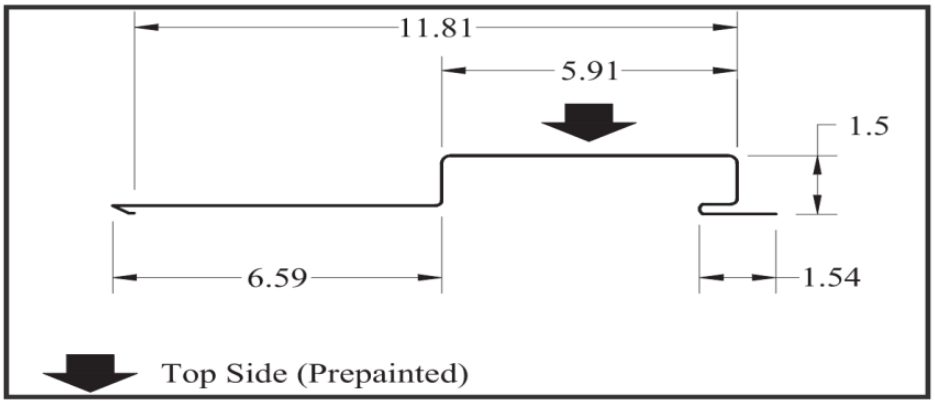
CLADDING

AD150

Imperial

LIMIT STATES DESIGN



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/ft²)	Section Modulus		Moment of Inertia	Factored Resistance			
						Moment		Reaction	
			Midspan (inches³)	Support (inches³)	Midspan (inches⁴)	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	-----	-----	-----	-----	-----	-----	-----	-----

LOAD

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

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*	122*	
	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	

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.

Vicwest Inc. reserves the right to amend product specifications without prior notice. Product specifications shown in this document should not be taken as being available in all regions. Recommendations for the uses described herein should be verified for suitability and compliance with actual requirements of any local building codes, applicable laws and regulations

vicwest | PLANET PASSIONATE

Learn more about our Planet Passionate strategy.
Visit vicwest.com/planet-passionate