

1-PIECE, TIGHT-FIT MOLDING (BD&V) TECHNICAL DATA SHEET

SYSTEM: 1-Piece, Tight-Fit Molding (BD&V)
EFFECTIVE: October 17, 2024

Description: Laminators Inc. 1-Piece, Tight-Fit Molding (BD&V) is a progressive, weather-resistant, exterior wall covering panel system. The panel system includes field-fabricated Laminators Inc. Omega-Lite® aluminum composite material (ACM) panels, aluminum moldings to encapsulate panel edges, and aluminum back-drained & ventilated (BD&V) sub-framing to prevent water accumulation in the wall assembly. The panel system can be installed over a variety of substrates and on projects requiring Continuous Insulation (CI), such as Laminators Inc. Omega CI® rigid insulation panels.

Properties:

Depth	1-1/4 in (nom)
Weight	1.66 psf (+/-) (over gypsum) 3.93 psf (+/-) (over Omega CI)
Weather Protection <small>(2018 IBC / 1402.2)</small>	BD&V Rainsceen
Exterior Wall Finish <small>(2018 IBC / 1406.2)</small>	PVDF/Kynar 500®, Polyester, or Anodized ACM
Combustible Exterior Wall Coverings <small>(2018 IBC / 1406.10, 1406.11, & 1406.12)</small>	Types I, II, III, IV, and V Construction

Performance:

Perimeter Framing Deflection <small>(2018 IBC / Table 1604.3)</small>	< L/175 normal to plane of wall
Panel Deflection <small>(2018 IBC / Table 1604.3)</small>	< L/60 normal to plane of wall
System Classification <small>(AAMA 509-14)</small>	V1 / W1 Classification (over gypsum) ¹ V2 / W1 Classification (over Omega CI)
Air Leakage Testing <small>(ASTM E283-04 [12])</small>	< 0.01 cfm / ft ² @ 6.24 psf
Uniform Load Testing <small>(ASTM E330-14)</small>	+60 psf / -120.0 psf (over gypsum) ¹ +60 psf / -100.0 psf (over Omega CI)
Permanent Deformation at 150% Pressure <small>(ASTM E330-14)</small>	< L/1000

Go beyond the panel... and go to the next level!

Water Penetration Testing (ASTM E331-00 [09])	Pass @ 12.11 psf
Fire Performance ² (NFPA 285-12)	Meets Conditions of Acceptance
Thermal Movement Temperature Range	-20°F to +180°F at material surface

Qualifications:

Continuous Insulation (ASHRAE 90.1)	Omega CI	
ICC-ES Listings ³	ESL-1248 (NFPA 285-06 & -12)	over gypsum
	ESL-1248 (NFPA 285-06 & -12)	over Omega CI
	ESL-1249 (AAMA 509-09 [Editorial Revision 2014])	
	ESL-1250 (ASTM E330-14)	
	ESL-1252 (ASTM E331-00 [09])	
	ESL-1254 (ASTM E283-04 [12])	

Notes:

1. Based on Clip & Caulk™ (BD&V) panel system due to similarities in design and detailing.
2. Based on installations over gypsum and Omega CI.
3. Omega-Lite ACM panels and installation system components are manufactured under a quality control program with inspections per ICC-ES AC-10.