

# OMEGA-LITE® TECHNICAL DATA SHEET

**PRODUCT:** Omega-Lite  
**EFFECTIVE:** October 24, 2024

**Description:** Laminators Inc. Omega-Lite is an aluminum composite material (ACM) panel that consists of a thermoplastic core bonded to a texture/color finished sheet of aluminum on one face and a protected mill finished sheet of aluminum on the other. Panels are intended for use in the Laminators Inc. panel systems.

**Properties:**

Thickness	6 mm (nom)
Weight	0.99 psf (+/-)
Core	Extruded Corrugated Polypropylene
Aluminum Sheets <sup>1</sup> (ASTM B209-14)	3003-H14/24; 3105-H14/24 & H26/28; 5005-H34 0.012 to 0.032 in
Texture Finish	Smooth or Stucco-Embossed
Color Finish (AAMA 2605-22)	PVDF/Kynar 500®, Polyester, or Anodized
Coefficient of Thermal Expansion, $\alpha$ (2015 ADM)	$13 \times 10^{-6}$ in/in/°F

**Performance:**

Specifications (2018 IBC / 1406.11.3.3)	
<ul style="list-style-type: none"> <li>• Combustibility Classification (ASTM D635-06)</li> </ul>	Conforms to Class CC1
<ul style="list-style-type: none"> <li>• Self-Ignition Temperature (ASTM D1929-96 [01])</li> </ul>	770°F
R-Value (ASTM C518-10)	0.50 hr °F ft <sup>2</sup> / BTU
Average Peel Torque (ASTM D1781-98 [12])	24.06 in-lb/in

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

Fire Performance (ASTM E84-19b)	Class A Flame Spread Index (FSI) = 0 Smoke Developed Index (SDI) = 20
Sound Transmission (ASTM E90-09)	STC 24
Flexural Rigidity (EI) <sup>2</sup>	Approximately 3.5x10 <sup>4</sup> lb-in <sup>2</sup> /ft
ICC-ES Listings <sup>3</sup>	ESL-1251 (ASTM D1781-98 [Reapproved 2012])  ESL-1253 (ASTM E84-16 & -2013a)

Notes:

1. Panels include 0.012 in (min) actual sheet thickness backer.
2. Internal testing performed in conjunction with ASTM E529 Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction.
3. Omega-Lite ACM panels and installation system components are manufactured under a quality control program with inspections per ICC-ES AC-10.