

# OMEGA-LITE® FR TECHNICAL DATA SHEET

**PRODUCT:** Omega-Lite FR  
**EFFECTIVE:** October 17, 2024

**Description:** Laminators Inc. Omega-Lite FR is an aluminum composite material (ACM) panel that consists of a thermoplastic core with nonhalogenated, fire-resistant (FR) additive 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. AdaptaClad® RS panel system.

**Properties:**

Thickness	6 mm (nom)
Weight	0.88 psf (+/-)
Core	Extruded Corrugated Polypropylene with Nonhalogenated FR Additive
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 D635-22)</li> </ul>	Conforms to Class CC2
<ul style="list-style-type: none"> <li>Self-Ignition Temperature (ASTM D1929-23)</li> </ul>	824°F
Average Peel Torque (ASTM D1781-98 [21])	28.24 in-lb/in

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

Fire Performance (ASTM E84-23)	Class A Flame Spread Index (FSI) = 0 Smoke Developed Index (SDI) = 5
Flexural Rigidity (EI) <sup>2</sup> (ASTM E529)	Approximately $3.5 \times 10^4$ lb-in <sup>2</sup> /ft

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.