

# ALUMALITE® ULTRA

## Technical Data Sheet

**PRODUCT:** Alumatite® Ultra

**EFFECTIVE:** April 25, 2024

**Description:** Alumatite® Ultra is a metal composite material (MCM) panel that consists of multiple thermoplastic cores bonded to a color finished sheet of aluminum on one face and a color or protected mill finished sheet of aluminum on the other. Panels are intended for use in digital print-ready sign panel applications.

**Properties:**

Thickness (standard)	15 mm (nom)	25 mm (nom)
Weight	1.40 psf (+/-)	1.81 psf (+/-)
Core	Extruded Corrugated Polypropylene	
	(3) 4.7 mm Cores	(5) 4.7 mm Cores
Sheets (ASTM B209)	3003-H26/28, 3105-H26/28 Aluminum 0.012 in	
Texture Finish	Smooth	
Color Finish (AAMA 2605)	Polyester	
Thermal Expansion	13.1x10 <sup>-6</sup> in/in/°F	
Tolerances	(±) 1/4 in (Length & Width) and (±) 1/16 in (Thickness)	
Squareness	Equal Within 1/8" (Diagonals)	
Flatness	< 1/4 in / 4 ft (0.52%)	

**Performance:**

Fire Performance <sup>1</sup> (ASTM E84)	Class A Flame Spread Index = 5 Smoke Developed Index = 200	
Flexural Rigidity (EI) <sup>2</sup> (ASTM E529)	1.02x10 <sup>5</sup> lb-in <sup>2</sup> /ft	1.95x10 <sup>5</sup> lb-in <sup>2</sup> /ft
Warranty <sup>3</sup>	5 years against bond line delamination	
	10 years against color fade in excess of (8) NBS units and cracking, chipping, flaking, or peeling	

Notes:

1. Testing was performed on 25 mm panel due to higher core (combustible) content. Class A results presented are conservatively extrapolated to 15 mm panel.
2. Performed in conjunction with ASTM E529 Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction.

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

3. Contact Laminators Inc. for full warranty terms and conditions.

