LAMINATORS
Composite Panel Solutions

ALUMALITE® ULTRA
Technical Data Sheet

PRODUCT: Alumalite® Ultra

EFFECTIVE: March 3, 2022

Description: Alumalite® 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	13.1×10^{-6} in/in/°F	
Tolerances	(+/-) 1/4 in (Length & Width) and (+/-) 1/32 in (Thickness)	
Squareness	Equal Within 1/8″ (Diagonals)	
Flatness	< 1/4 in / 4 ft (0.52%)	

Performance:

Fire Performance [1] (ASTM E84)	Class A Flame Spread Index = 5 Smoke Developed Index = 200	
Flexural Rigidity (EI) [2] (ASTM E529)	1.02×10^5 lb-in^2/ft	1.95×10^5 lb-in^2/ft
Warranty [3]	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.

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