

Description

Omega-Bond Standard is a metal composite material (MCM) panel that consists of a thermoplastic core bonded to a finished sheet of aluminum on one or both faces. Panels are intended for use in digital print-ready sign panel applications.

Properties

Thickness	2 mm (nom)	3 mm (nom)	4 mm (nom)	6 mm (nom)
Weight	0.53 psf (+/-)	0.72 psf (+/-)	0.91 psf (+/-)	1.29 psf (+/-)
Sheet Thickness	0.006 in.	0.006 in.	0.008 in.	0.006 in.
Panel Sizes	4' x 8'	4' x 8'	4' x 10' 5' x 10'	4' x 8' 4' x 10'
Sheets (ASTM B209)	1100-H16/H18 Aluminum			
Core	Extruded Solid Polyethylene			
Texture Finish	Smooth			
Color Finish	Polyester			
Thermal Expansion	13.1x10 ⁻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 Performance¹ (ASTM E84)	Class A Flame Spread Index (FSI) = 22 Smoke Developed Index (SDI) = 400	
Flexural Rigidity (EI)^{2,3} (ASTM E529)	5.59x10 ³ lb-in ² /ft (3mm)	22.0x10 ³ lb-in ² /ft (6mm)
Warranty⁴	5 years against bond line delamination, 5 years against color fade in excess of (8) NBS units and cracking, chipping, flaking, or peeling	

Notes

1. Values based on Omega-Bond® Economy.
2. Performed in conjunction with ASTM E529 Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction
3. No values available for 2mm and 4mm panels.
4. Contact Laminators Inc. for full warranty terms and conditions.