

# OMEGA-BOND® STANDARD

## Technical Data Sheet

**PRODUCT:** Omega-Bond Standard

**EFFECTIVE:** April 21, 2025

**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 manufactured with a digital print ready finish.

**Properties:**

Thickness	2mm (nom)	3mm (nom)		4mm (nom)	6mm (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	0.008 in
Panel Size	4'x8'	4'x8'	4'x10' 5'x10'	4'x8'	4'x8' 4'x10'
Sheets (ASTM B209)	1100-H16/H18 Aluminum				
Core	Extruded Solid Polyethylene				
Texture Finish	Smooth				
Color Finish	Polyester				
Thermal Expansion	13.1x10 <sup>-6</sup> 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 <sup>1</sup> (ASTM E84)	Class A Flame Spread Index (FSI) = 22 Smoke Developed Index (SDI) = 400	
Flexural Rigidity (EI) <sup>2, 3</sup> (ASTM E529)	5.59x10 <sup>3</sup> lb-in <sup>2</sup> /ft (3mm)	22.0x10 <sup>3</sup> lb-in <sup>2</sup> /ft (6mm)
Warranty <sup>4</sup>	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

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

3. No values available for 2mm and 4mm panels.
4. Contact Laminators Inc. for full warranty terms and conditions.

