

GLAZE-LITE™

Technical Data Sheet

PRODUCT: Glaze-Lite™
EFFECTIVE: October 19, 2021

Description: Glaze-Lite™ is a metal composite material (MCM) panel that consists of a thermoplastic core typically bonded to a texture/color finished sheet of aluminum on each face. Panels are intended for use in glazing and storefront applications but not for use in Laminators Inc. installation systems.

Properties:

Thickness (standard)	6 mm (nom)
Weight	0.99 psf (+/-)
Core	Extruded Corrugated Polypropylene
Sheets (ASTM B209)	3003-H14/24, H16/26, & H18/28; 3105-H14/24, H16/26, & H18/28; 5005-H34 Aluminum 0.012 to 0.015 in
Texture Finish	Smooth or Stucco-Embossed
Color Finish (AAMA 2605)	PVDF/Kynar 500®, Polyester, or Anodized
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:

R-Value ¹ (ASTM C518)	0.50 hr °F ft ² / BTU
Fire Performance ² (ASTM E84)	Class A Flame Spread Index (FSI) = 0 Smoke Developed Index (SDI) = 60
Sound Transmission ¹ (ASTM E90)	STC 24
Self-Ignition Temperature ¹ (ASTM D1929)	770°F
Combustibility Classification ¹ (ASTM D635)	Class CC1

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

Available Load-Carrying Capacities (R_n / Ω): ^{3,4,5,6}

0.012 to 0.015 in Sheets

Panel Span (in) ⁷	≤ 18	24	30	36	42	≥ 48
Wind Load (psf) ⁸	55*	30	15	5	5	-

Notes:

1. Based on Omega-Lite® due to same basic panel construction.
2. Based on Alupalite® due to same panel construction.
3. Based on testing performed in conjunction with ASTM E529 Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction.
4. Capacities are calculated for a 6 mm (nom) standard panel with actual sheet thickness and double-sided typical construction (matching sheet thickness on each face). Contact Laminators Technical Support for higher capacities of panels greater than 6 mm.
5. Capacities are governed by the Aluminum Design Manual (ADM) using a Factor of Safety = 1.65 for yield strength.
6. Project-specific Components and Cladding wind loads (Required Strength, R_a) shall not exceed Available Load-Carrying Capacities (Allowable Strength, R_n / Ω) for given spans. Wind loads are to be calculated per ASCE/SEI 7 Minimum Design Loads for Buildings and Other Structures.
7. Panel Span applies to shortest dimension of finished panel.
8. Deflection limits govern for given capacities (i.e. International Building Code (IBC) deflection limits have been met) except as noted * for governing strength condition capacities. Capacities are capped at values shown but are higher for spans less than indicated. Some capacities fall below a 5 psf limit and are not reported for given spans.