

Omega-Lite panels offer the highest strength-to-weight ratio in the industry.

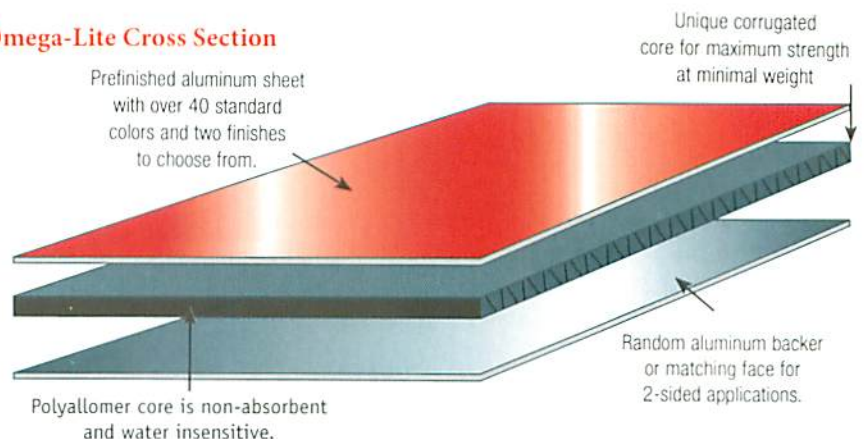
Omega-Lite®

LIGHTWEIGHT AND STRONG ALUMINUM COMPOSITE PANELS

Highly decorative, water-insensitive panels for exterior wall surfaces. Omega-Lite panels have a patented, corrugated plastic core making them not only the lightest and strongest ACM panel on the market but also the fastest and easiest to install. Our standard 6mm panel weighs just 0.99lb/ft² compared to Alucobond's standard 4mm panel which weighs 1.22lb/ft². And Omega-Lite panels are much stronger! Compare the stiffness of our 6mm panel at 58,100 psi to Alucobond's standard 4mm panel at 20,800 psi and Alpolic's 3mm panel at 18,030. We surpass conventional panels spec for spec!

The design of our corrugated core is one reason Omega-Lite is superior to solid core ACM panels. Our patented core allows us to put thicker aluminum skin on the panel, making it stronger, more durable and resistant to dents; yet still light-weight. The polyallomer core is non-absorbent and water insensitive so the panels do not rot, swell, corrode or delaminate. Class A flame spread rating. U.S. Patent #6,080,495

Omega-Lite Cross Section



Omega-Lite® surpasses conventional panels spec for spec.

Our exclusive fluted core is specifically designed to bond to silicone building sealant. The hollow flutes of the corrugated core act as a reservoir for the sealant, producing an excellent mechanical bond. The entire core is plasma treated allowing you to cut anywhere on the panel and still achieve a permanent sealant bond.

Standard Options Unlimited Possibilities

Omega-Lite comes in a variety of standard options that offer a wide range of design and construction solutions. Three thicknesses of the aluminum face are available: .032" (0.813mm), .024" (0.61mm) and .013" (0.33mm) stucco-embossed. Our four-foot (48") width comes in 8', 10' and 12' lengths. Five-foot (60") widths are available as a custom order. Omega-Lite panels are available in over 40 standard colors in either smooth or stucco-embossed finishes. See our "Colors and Finishes" sheet for more details.



Omega-Lite panels are fabricated on-site for fast and inexpensive installation.



Omega-Lite panels provide highly decorative, strong and durable finishes over exterior wall surfaces.



Omega-Lite panels make a lasting impression at Olympic Park - site of the 2002 Winter Olympics in Salt Lake City.

Technical Data Overview

American Architectural Manufacturers Association (AAMA)

AAMA 605.2-92 Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels

AAMA TIR-ALL-96 Maximum Allowable Deflection of Framing Systems for Building Cladding Components at Design Wind Loads

American Society for Testing & Materials (ASTM)

ASTM B209-96 Aluminum and Aluminum-Alloy Sheet and Plate

ASTM C481-94a Laboratory Aging of Sandwich Constructions

ASTM E84-96a Surface Burning Characteristics of Building Materials

ASTM E330 Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference

Load: 120 lb/ft², 24" span AAMA L/175 limit

Wind Load Rating: Based on ASTM E330 static load: 270 mph, 2 ft (0.6 m) O.C., Architectural testing labs, TR#545

Thickness: 5mm or 10mm plastic, add thickness of metal

Width: 48" (also 60" in Regal Bronze, Polar White, Classic Bronze, Bone White, Sandstone, Concord Cream, Sunbrite Silver, Silver Metallic, and Champagne Metallic)

Length: 72", 96", 120", or 144"

Weight: 1.00 lb/ft².

Tolerances: Length and Width: ±1/16" Squareness: Diagonals equal within 1/8", Thickness: ±0.016"

Construction: 6 mm, Omega-Lite 20, .032"/.013"

R-Value: 1.25 hr ft² °F/Btu

Stability: 1.94 x 10⁻⁵ in./in. °F, 0.0007 in./ft. at 50 to 90% RH

Stiffness: 5.81x10⁴ psi/ft - width (EI)

Fire Rating: Based on ASTM E84: Class A, under 25 Flame Spread

Bond Test: Based on ASTM C481-A Cyclic Aging bond test: Pass

Installation Systems

Laminators offers unparalleled flexibility with multiple installation systems to fit your project and regional conditions. See our "Installation Overview" sheet or "Omega-Lite Installation Guide" for more details on these systems:

- Clip & Caulk™ (patented Laminators installation system)
- Rout and Return (both wet and dry)
- Extruded moldings (1-piece and 2-piece)
- Pressure Equalized Rain Screen Walls.

Our expert Technical Support Team provides assistance from product details and specs to installation and engineering information. Our staff can help you build budget figures you can use to plan your project. We assist your team throughout the entire bid process with samples, custom built prototypes and specifications including detailed testing data for code compliance where required.

We genuinely care about how our panels look and perform—not just today but years from now.