Laminators Incorporated has produced high quality, American-made aluminum composite (ACM) panel products for over 45 years. Discerning architects and building owners rely on Laminators’ Omega panel products to produce signature buildings with dramatic accents of color or in combination with traditional masonry or glass. For new construction or renovation, Laminators’ ACM panels are the affordable solution for the look you want.

Our driven dedication to delivering innovative products has lead to numerous patents and two of the finest ACM panel products in the industry – Omega-Lite® and Thermolite™.

We also offer two wood core ACM panel products for projects on a tight budget. Omega-Ply® - perfect as a decorative accent having exceptional strength, wind and impact resistance. Omega Foam-Ply® offers an inexpensive, impact resistant insulation panel for glazing infill, storefront and curtain wall applications.

Omega panels can enable you to create sweeping fields of color without “oil canning”, buckling or rippling. You have over 40 colors to choose from in either a smooth or stucco-embossed finish. Our standard colors are coil-coated for a consistent, long-life finish with no minimum orders and up to a 20-year colorfast warranty. We also offer custom color matching to meet your specifications.

Laminators is consistently developing creative solutions to meet the needs of the commercial construction industry. Our on-site installation systems are simple to install, less expensive and easier to repair than conventional shop fabricated cladding systems.

Laminators offers unparalleled flexibility with multiple installation systems to fit your project, budget and regional conditions.

- Clip & Caulk™ - an exclusive, patented Laminators’ installation system
- Rout and Return – both wet and dry
- Extruded Moldings – 1-piece or 2-piece

We offer expert factory support for assistance with product details, specs, installation and engineering information. Our talented customer service managers can help you build budget figures and assist you throughout the entire bid process with product and color samples, custom-built prototypes, specifications and detailed test data for code compliance where required.

From planning to ribbon cutting, our talented, experienced staff gives you unparalleled technical support every step of the way. We genuinely care about how our panels look and perform – not just today but years from now.
Highly decorative, water-resistant ACM 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 6 mm panel weighs just 0.99lb/ft\(^2\) compared to Alucobond’s standard 4 mm panel which weighs 1.22lb/ft\(^2\). And Omega-Lite panels are much stronger! Compare the stiffness of our 6 mm panel at 58,100 psi to Alucobond’s standard 4 mm panel at 20,800 psi and Alpolic’s 3 mm panel at 18,030.

The truss design of our corrugated core is just one reason Omega-Lite is superior to solid core ACM panels. Our patented core allows us to put a thicker aluminum skin on the panel, making it stronger, more durable and resistant to dents; yet still lightweight. The polyallomer core is non-absorbent and water-resistant so the panels do not rot, swell, corrode, or delaminate.

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**

Omega-Lite comes in a variety of standard options that offer a wide range of design and construction solutions. Our four-foot (48”) width comes in 8’, 10’ and 12’ lengths. Five-foot (60”) widths are available in our seven standard premium colors. Omega-Lite panels are available in over 40 standard colors in either smooth or stucco-embossed finishes.
Omega-Lite® Panels 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

AAMA 508-07 – Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems

American Society for Testing & Materials (ASTM)

ASTM E84-96A – Surface Burning Characteristics of Building Materials

ASTM C481-94A – Laboratory Aging of Sandwich Constructions

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

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

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

Bond Test: Based on ASTM C481-A Cyclic Aging

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

Wind Load Rating: Based on ASTM E330 static load: 250 mph, 2 ft (0.6 m) O.C., Architectural Testing Inc.

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

Width: 48” (also 60” in select colors)

Length: 96”, 120”, or 144”

Weight: 0.99 lb/ft²

Tolerances:

Length and Width: ±1/16”

Squareness: Diagonals equal within 1/8”

Thickness: ±0.016”

Construction: 6 mm Omega-Lite, 0.032”/0.013”

R-Value: 1.25 hr ft² °F/Btu

Stability: 1.94 x 10⁻⁵ in./in. °F, 7⁴ in./ft. at 50 to 90% RH

Stiffness: 6.44 x 10⁴ psi/ft - width (EI)

New York City Dept of Buildings: MEA 1-02-M

Miami, Dade County, Florida: NOA 03-1126.02

Omega-Flex™ On-site Radius Fabrication

Highly decorative, water-resistant ACM panels for exterior wall surfaces. Omega-Flex has all the benefits and advantages of Omega-Lite with the addition of being able to wrap a 4’ to 17’ radius on-site without engineering drawings, roll-forming, additional shop fabrication, packaging and freight costs. Towering, freeform, and curved structures are possible with the combination of Omega-Lite and Omega-Flex panels.

The flexible polyallomer backer on the Omega-Flex panels allow the panels to be shipped flat and then wrapped to the curve of the plywood sheathing form. The panels remain flat and smooth. Special panel configurations are required. Omega-Lite can be used for curves with a radius larger than 18 feet.
Thermolite™

ENERGY-SAVING, INSULATING ACM PANELS

Water-resistant, energy-saving wall panels with outstanding insulation properties for glazing or curtain wall installations. Thermolite panels are designed to fit into standard 1-inch glazing pockets.

Thermolite panels have two corrugated plastic stabilizers sandwiching an insulating core of Isocyanurate (ISO) or Expanded Polystyrene (EPS) foam. The truss design of our exclusive corrugated stabilizer is one reason Thermolite is superior to conventional curtain wall panels.

Thermolite panels are a cost-effective solution for curtain walls and glazing applications because of their excellent insulating properties (R-7 for ISO and R-6.3 for EPS), fire resistance (ASTM E84 Class A), and they are virtually maintenance free for up to 20 years. Our standard 1-inch panel weighs less than 45 lbs compared to 1-inch hardboard-stabilized panels that weigh over 60 lbs each.

Thermolite Cross Section

Our exclusive fluted stabilizers are specifically designed to provide strength, stiffness and dent-resistance. Thermolite panels are water-resistant and non-absorbent so they will not rot, swell, corrode, or delaminate.

Standard Options

Thermolite comes in a variety of standard options that offer you a wide range of design and construction solutions. Our four-foot (48") width comes in 8’, 10’ and 12’ lengths. Five-foot (60") widths are available in our seven standard premium colors by special order. Thermolite panels are available in over 40 standard colors in either smooth or stucco-embossed finishes.
**Thermolite™ Panels 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 E84-96A – Surface Burning Characteristics of Building Materials

ASTM C481-94A – Laboratory Aging of Sandwich Constructions

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

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

**Fire Rating:** Based on ASTM E84: Class A

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

**Load:** 71 lb/ft², 48” span AAMA L/175 limit

**Wind Load Rating:** Based on ASTM E330 static load:

260 mph, 48” O.C., limited by AAMA L/175 deflection

**Thickness:** Nominal 1” fits 1” glass and glazing pockets. Available in thicknesses up to 3 1/2”

**Width:** 48” or cut-to-size (also 60” in select colors)

**Length:** 96”, 120”, 144”, or cut-to-size

**Weight:** 1.40 lb/ft²

**Tolerances:**

Length and Width: ±1/16”

Squareness: Diagonals equal within 1/8”

Thickness: ±0.078”

**Construction:** 1” with plastic stabilizers, 0.032” face/ 0.013” back

**R-Value (standard 1” thickness):** R-7 for ISO, R-6.3 for EPS foam core

**Stability:** 2.42 x 10⁻⁵ in./in. °F, 4.4 x 10⁻⁴ in./ft. at 50 to 90% RH

**Stiffness:** 1.54 x 10⁶ psi/ft - width (EI)

**Installation Systems**

Thermolite panels are designed to fit standard 1-inch insulating glass curtain walls and storefront extruded molding systems. As with all our panels, they can be cut-to-size on site using standard carpentry tools.
Omega Foam-Ply is an excellent solution for budget-conscious applications in curtain walls, energy retrofits, storefronts, and opaque glazing.

Omega Foam-Ply panels have an insulating foam core sandwiched between hardboard stabilizers and finished aluminum sheets. These panels are designed for use in standard insulating glass curtain walls and storefront extrusions. Omega Foam-Ply panels are exceptionally strong with excellent wind and impact resistance.

Omega Foam-Ply is an excellent solution for budget-conscious applications in curtain walls, energy retrofits, storefronts, and opaque glazing. This economical alternative to corrugated polyallomer (CPA) panels requires proper caulking to prevent water intrusion. Omega Foam-Ply panels are long-lasting and durable when properly installed.

Standard Options

Omega Foam-Ply panels come in a variety of standard options, offering a wide range of design and construction solutions. Three thicknesses of the aluminum face are available: .032" (0.813 mm), .024" (0.61 mm) and .013" (0.33 mm) 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 Foam-Ply panels are available in over 40 colors and either a smooth or stucco-embossed finish.
**Omega Foam-Ply™ Panels 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 E84-96A** – Surface Burning Characteristics of Building Materials
- **ASTM C481-94A** – Laboratory Aging of Sandwich Constructions
- **ASTM B209-96** – Aluminum and Aluminum-Alloy Sheet and Plate
- **ASTM E330** – Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference

**Fire Rating:** Based on ASTM E84: Class A

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

**Load:** 65 lb/ft², 46.5" span AAMA L/175 limit

**Wind Load Rating:** Panels fastened 4' O.C. will with-stand 160 mph equivalent wind based on ASTM E330 static load. Deflection limited by AAMA L/175 for same size glass panels. 250 mph. 24” O.C.

**Thickness:**
- Nominal: 1” fits 1” glass and glazing pockets
- Actual: 15/16” ±1/16”, custom thicknesses available up to 3 1/2”

**Width:**
- 48” or cut-to-size (also 60” in select colors)

**Length:**
- 96”, 120”, or 144”, or cut-to-size

**Weight:** 1.81 lb/ft²

**Tolerances:**
- Length and Width: ±1/16”
- Squareness: Diagonals equal within 1/8”
- Thickness: ±0.078”

**Construction:** 1” with hardboard stabilizers and 0.013” aluminum face and back

**R-Value (standard 1” thickness):** R-7.7 for ISO, R-7 for EPS foam core

**Stability:** 8 x 10⁴ in./in. °F, 7 in./ft. at 50 to 90% RH

**Stiffness:** 8.7 x 10⁵ psi/ft - width (EI)

**Installation Systems**

Laminators offers unparalleled flexibility with multiple installation systems to fit your project and regional conditions. Omega Foam-Ply panels are installed using standard curtain wall or storefront extrusions.

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Energy saving Omega Foam-Ply panels are excellent for new construction or renovation.

Durable Omega Foam-Ply panels are exceptionally strong & impact resistant.

Thermolite and Omega Foam-Ply panels are designed to fit standard 1-inch glass or glazing pockets but are available up to 3 1/2 inches thick.
Colors & Finishes

LARGEST SELECTION IN THE INDUSTRY

Quality Standard Colors
Omega panels are available in over 40 standard colors, three aluminum skin thicknesses, two widths, and two finishes. There is no minimum order and you have unlimited design potential with flexibility and quality for every budget. Laminators’ color chart comes complete with printed color samples and information about the finish, skin thickness and width for all standard colors.

Colorfast NQ20
Laminators’ exclusive Colorfast NQ20 two-coat polyester system is tough, durable, stain-resistant, and economical; using ceramic pigments to provide superior color and gloss retention. NQ20 panels come in 10 colors, with a 10-year colorfast warranty and can be delivered in two to three weeks.

We’re the only panel manufacturer in the industry to offer 10 popular NQ20 colors with stucco-embossed finish on an .013” aluminum skin. When you want a great looking, cost-effective stucco-embossed finish that is easy to install; this is an outstanding solution.

Kynar 500® Architectural Coating
As the industry standard for over 40 years, Kynar 500® is a special grade of polyvinylidene fluoride (PVDF) resin used as the base resin in long-life coatings. You can depend on Kynar 500’s long-life color retention and resistance to fading and chalking. It provides an excellent, low maintenance exterior finish and comes with a 20-year colorfast warranty.

We carry 30 of the most in-demand colors on .032” aluminum skins in both smooth and stucco-embossed finishes. Widths are 48”. Seven of the most popular colors also come in 60” widths.

Color-Matched For You
When you want a special look, Omega panels can be color-matched to your exact specifications. We offer the greatest flexibility and unlimited design options at an economical cost with the highest quality.

Custom color panels come in both smooth and stucco-embossed finishes and in 48” and 60” widths. Custom colors are spray-painted or coil-coated. Spray-painted panels carry a 5- to 10-year warranty. Premium coil-coated panels carry a 20-year warranty. Delivery takes 10 to 12 weeks. There is a minimum order of 800 square feet for each coil-coated custom color.

Metallic Finishes
When installing panels with metallic finishes, it is very important that the directional arrows on the panel masking are oriented in the same direction. Color variation is a characteristic of aluminum composite panels with metallic paint finishes. Laminators Incorporated DOES NOT warrant a color match for these panels.

Quality Customer Service
Laminators’ experienced staff provides you with everything you need to get great results from our panels. Large 3” x 5” color samples are available on request. Complete spec data for our NQ20 paint is available in our architectural binder and from our web site at www.LaminatorsInc.com. Complete spec data for Kynar 500 is available from www.kynar500.com.

Kynar 500 is a registered trademark of Arkema Inc.
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