

Product Data Sheet

PRODUCT NAME:

Envelope 2000® Metal Composite Material (MCM)

MANUFACTURER:

Citadel Architectural Products, LLC. 6198 W Airport Road Greenfield, IN 46140

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OVERVIEW:

Envelope 2000® is a composite panel made by laminating a prefinished aluminum skin to a substrate of thermoset phenolic resin. A second aluminum skin is added as a backer and provides thermal stability and panel balance.

Panels are furnished with a strippable film on the painted surfaces to protect the finish during shipment and installation.

BASIC USES & APPLICATIONS:

Envelope 2000® is designed for use as an exterior cladding on walls, canopies, fascia, and accent bands.

Envelope 2000® is typically used on medium to high rise buildings, such as office towers, retail complexes, educational buildings, medical facilities, etc...

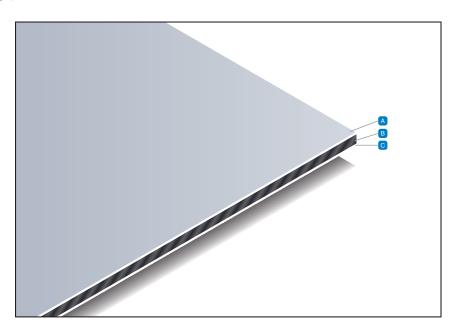


TABLE 1. COMPOSITION & MATERIALS1:

Component	Standard (in)	Metric (mm)
A. Prefinished Smooth Aluminum Face B. Thermoset Phenolic Resin Core ² C. Primed Smooth Aluminum Backer	.024" (min) .105" .010"	.609mm 2.67mm .254mm

¹ Technical Properties (see back) are based upon the Typical Composition. Selecting optional components may alter these properties.

FEATURES & BENEFITS:

Envelope 2000® offers a number of benefits to the building owner, architect, and installer including:

· High-Tech Appearance

Smooth aluminum skins and clean lines make Envelope 2000® an excellent choice for high profile projects where a progressive aesthetic detail is desired.

· Fire, Water & Impact Resistant

The phenolic core is fire resistant to meet (or exceed) code require ments and offers extra protection against incidental moisture, dents, and dings.

· Curveable

Along with various shadow lines, Envelope 2000® can also add interest to your project with long sweeping curves or tight, crisp column covers.

· Cut-To-Size

These panels can be easily cut to the correct dimension on site using standard tools.

Thermal Stability

Unlike other cladding solutions, Envelope 2000® remain rigid and stable even during seasonal heating and cooling thermal cycles.

· Tested

Designed for performance, tested by ASTM E84, ASTM D1781, ASTM D1929, and ASTM D5420.

· Low Maintenance

Most foreign matter can be cleaned from surface with mild detergents; can be incorporated into yearly building washing schedule.

· Quick Lead Time

Available nationwide, these panels can be found locally or shipped within 2 weeks.

² 4mm is the most common thickness for Envelope 2000®. 3mm and 6mm (nominal) are also available.



Envelope 2000®

GENERAL LIMITATIONS:

Envelope 2000® is intended for use as an exterior cladding. It is not eligible for use as a structural element of a wall assembly. Envelope 2000® should not be used in applications where the slope exceeds 25° from vertical.

FINISHES:

Envelope 2000® comes standard with a smooth aluminum skin. Standard and metallic colors are furnished with a durable Kynar 500® coating. Anodized finishes are available as a standard finish. Custom colors are also available to match customer's standard.

Standard Smooth: Coil Coated Kynar 500®

Custom Smooth: Spray Applied Kynar 500®

SIZES AVAILABLE:

48" x 96" (1219mm x 2438mm)

48" x 120" (1219mm x 3048mm)

48" x 144" (1219mm x 3658mm)

60" x 96" (1524mm x 2438mm) 60" x 120" (1524mm x 3048mm)

60" x 144" (1524mm x 3658mm)

Cut-to-size panels are also available in virtually any size up to 60" x 144".

MATERIAL TOLERANCES:

Thickness: ±1/32" (±0.79mm) Length Dim: +0, -1/16" (+0, -1.59mm) Width Dim: +0, -1/16" (+0, -1.59mm) Squareness: 1/64" (0.4mm) per

lineal foot

STANDARD WARRANTY:

Panel Warranty: 5 Years Anodized Finish: 20 Years Kynar 500® Finish: 20 Years

(spray-applied)

Kynar 500® Finish: 30 Years

(coil-coated)

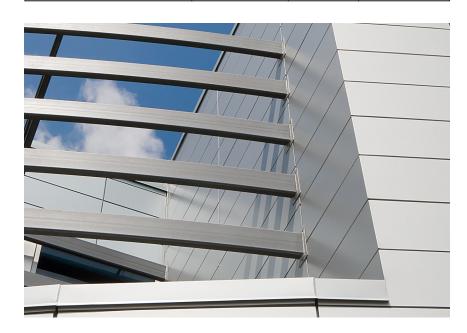
TABLE 2. PANEL WEIGHT & THICKNESS:

Component	Standard	Metric
Panel Weight ¹	1.25 lbs/ft²	6.47 kg/m²
Nominal Thickness ²	1/8"	4mm

¹ Weight and testing based upon panels using an .024" smooth face skin and an .010" smooth back skin.

TABLE 3. PANEL PERFORMANCE:

Property	Test	Value	Unit
Flame Spread Peel Strength Ignitioin Temperature Impact Resistance	ASTM E84 ASTM D1781 ASTM D1929 ASTM D5420	Class A 34.5 900 on request	in-lb/in °F



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