

Decorative Wall and Ceiling Panel



Nudo Elements[™] Technical Data

Nudo Elements[™] Class A is an interior decorative composite wall and ceiling panel that combines solid painted or brushed surfaces with a Nudo composite core. The result – a decorative wall panel that is easy to install. There are numerous applications that often need a metal appearance with the added benefit of moisture resistance. Elements allows fashion to meet function, with its high resistance to chemicals and moisture.

Physical Properties: Table 1

Property	Typical Value		Test Method
Surface Burn Test	≤ 0 Class A	N/A	ASTM E84
Smoke Development	≤ 0	N/A	ASTM E84
Flexural Strength	10,208	psi	ASTM D790
Flexural Modulus	1,414,164	psi	ASTM D790
Flexural Load	41.8	lbf	ASTM D790
Tensile Strength	4,084	psi	ASTM D638
Tensile Modulus	500,353	psi	ASTM D638
Elongation	22.8	%	ASTM D638
Izod Impact	5.7512	Ft-lbs/in.	ASTM D256
Water Absorption	0.019%	24 hrs. @ 23° C	ASTM D570
Coefficient of Linear Thermal Expansion	4.31 X 10 ⁻⁵	50% Humidity Temp -23° C	ASTM D696-03

Physical Properties: Table 2

Part Number Identifier	Nominal Panel Thickness	Nominal Panel Weight	Color	Size
PM1-120BC	.120" Special Thicknesses Available	1.0# psf	Finished Panels - Painted Colors, Brushed, and Polished Mirror	2'X2' 2'x4' 4'X8' 4'X10' Non-Standard sizes available made-to-order

Composition:

- Panel surface painted with Polyester finish.
- Aluminum overlay (Face)
- Solid HDPE core
- Adhesive
- Aluminum overlay (back)

Preconditioning: Prior to installing Elements panels, remove the packaging materials and allow the panels to acclimate to room temperature and humidity for at least 48 hours. Ideally, the room temperature and humidity during acclimation and installation should be the same as the final operational conditions. **DO NOT REMOVE PROTECTIVE FILM FROM PANEL SURFACE UNTIL AFTER INSTALLATION AND BUILDING IS AT OPERATIONAL TEMPERATURE CONDITIONS.**

Product Limitations: Elements is designed as an indoor decorative panel. It should never be exposed to extremely high or extremely low moisture conditions. Elements is designed to be installed over a solid wall surface and should never be directly installed over studs, concrete, concrete block, or non-insulated exterior walls. Elements should be installed between 60°F (16°C) to 75°F (24°C) and 35% to 55% relative humidity. Non-compliance with product limitations may affect future performance and voids warranty.



Finished Panel Quality, Fabrication & Handling

- The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
- Physical properties shall be set forth in Table 1.
- Product quality standards and tolerance for panel weight and thickness shall be set for in Nudo Product, Inc. Quality Control Procedures/Standards which are available upon request.
- Dimensions shall be specified on purchased order, subject to the following tolerances:
 - Width: $\pm 1/8$ " (3.2mm)
 - Length: $\pm 1/8$ " (3.2 mm)
 - Squareness: not more than $1/8$ " (3.2 mm) out of square.
- Panels shall be installed in accordance with the manufacturer's guidelines as set forth in the installation guide lines.
- Please refer to NUDO Elements™ Installation Guidelines for fabrication and cleaning instructions.
- Panels can be installed and fabricated with the same tools and techniques as ordinary aluminum skinned panels. Carbide-tipped tools are recommended, as well as safety equipment. Eye protection and filtered mask should be worn during cutting and trimming operations.

Storage: Elements laminated should be stored horizontally indoors on a contiguous flat surface, in a dry location. Panels should never be stored on the floor or an outside wall. Exposure to humid or wet conditions prior to installation may cause moisture damage. Standing water on surface of panels prior to installation may cause color distortion. Optimum storage conditions are 60°F (16°C) to 75°F (24°C) and 35% to 55% relative humidity.

Disclaimer: We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of use are beyond our control, the user assumes all risks. Nothing herein shall be construed as a recommendation for use that infringes on valid patent or as extending a license under valid permit. Nothing herein shall be construed as a recommendation for use or as extending a license under valid patent.

RESPONSIVENESS

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