

Custom Digital Graphics
Wall Panel



Nudo Impressions[™] /Nudo Impressions R&R[™] Technical Data

Nudo Impressions is an interior decorative custom graphic composite wall and ceiling panel that combines custom graphics on a smooth aluminum surface with a Nudo "green friendly" composite core. The image is printed directly onto composite panel using a digital printer with 3M UV ink system. The panel can be installed flat on substrate (Impressions), or the edges can be routed and returned (Impressions R & R) to give a 3-dimensional appearance. The result – a custom graphic wall and ceiling panel that is easy to install.

There are numerous applications that often need a custom graphic image within a wall panel system or standalone wall art. Impressions allows you the flexibility to choose your own images or artwork to create a feature wall system. The process offers fashion to meet function while enhancing any space.

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

RESPONSIVENESS

CONSISTENCY

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Physical Properties: Table 2

Part Number Identifier	Nominal Panel Thickness	Nominal Panel Weight	Color	Size
NCP-I	.120"	1.0# psf	Custom Graphic with Matte Gloss Finish	2'X2' 2'x4' 4'X8' 4'X10' Non-Standard sizes available made-to-order
NCP-I-RR	.120"	1.0# psf		4'X8' 4'X10' 5'X10' Non-Standard sizes available made-to-order

Composition: The Nudo Impressions panel is a double-sided aluminum overlay panel with a solid HDPE Core with a custom printed graphics finish on one side.

Preconditioning: Prior to installing Impressions panel, 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 AT OPERATIONAL TEMPERATURE CONDITIONS.

Product Limitations: NUDO Impressions™ panels are comprised of a recycled thermoplastic core sandwiched between two sheets of finished aluminum. The recycled thermoplastic core lends itself to resisting moisture. Non-compliance with product limitations may affect future performance and voids warranty



Finished Panel Quality, Fabrication & Handling

- The front side shall be smooth. Colors shall be throughout the panel and manufactured as specified.
- 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.
- Panel dimensional tolerances will be:
 - Width: +0" – 1/8" (4mm)
 - Length: ± 1/8" (4mm)
 - Squareness: 1/8" (4mm) in 48" (1.2m).
- Variation in panel integrity will be due to the substrate, not the laminate or adhesive bond.
- Please refer to NUDO Impressions™ Installation Guidelines for cleaning instructions.
- Panels can be installed and fabricated with the same tools and techniques as ordinary sign panels. Carbide-tipped tools are recommended, as well as safety equipment. Eye protection and filtered mask should be worn during cutting and trimming operations.
- Panels shall be installed in accordance with the manufacturer's guidelines as set forth in the installation guide.

Storage: Nudo Impressions panels 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.

Flame Spread and Smoke Development Ratings: The numerical flame spread, and smoke development ratings are not intended to reflect hazards presented by Nudo Product, Inc. products or any other material under actual fire conditions. These rating are determined by small-scale tests conducted by Underwriters Laboratories and other independent testing facilities using the American Society for Testing and Materials E-84 test standards (commonly referred to as the "Tunnel-Test"). NUDO PRODUCTS, INC PROVIDES THESE RATING FOR MATERIAL COMPARISON PURPOSES ONLY. Like other organic building materials, (e.g. wood), panels made up of composite material will burn. When ignited, it may produce dense smoke very rapidly. All smoke is toxic. Fire safety requires proper design of facilities and fire suppression systems, as well as precautions during construction and occupancy. Local codes, insurance requirements and any special needs of the product user will determine the correct fire-rated interior finish and fire suppression system necessary for a specific installation.

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.

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Nudo Impressions T&G™ Technical Data

Nudo Impression T & G™ is an interior Class A interlocking custom graphic vinyl wall and ceiling panel. These seamless panels are available in 16" and 24" widths, and 8', 10', 12', 16' and 20' lengths. The 24" wide panels are available in a straight edge drop-in ceiling panel, 2' x 2' and 2' x 4'. The custom graphics are printed directly on the panels using digital imaging printers with a 3M ink system. These lightweight interlocking panels are designed for large mural applications and can be metal fastened directly to substrate, easily removing them for use in a new location.

There are numerous applications that often need a large custom graphic image. Impressions allows you the flexibility to choose your own images or artwork to create a large feature wall. The process offers fashion to meet function while enhancing any space.

Physical Properties: Table 1

Property	Typical Value*		Test Method
Surface Burn Test	Class A	N/A	ASTM E84
Flame Spread	20	N/A	ASTM E84
Smoke Development	≤ 250	N/A	ASTM E84
Surface Burn Test - Canadian	Class A	N/A	ULCS 102.2
Flexural Strength	2,223	psi	ASTM D790
Flexural Modulus	156,976	psi	ASTM D790
Flexural Load	10,496	lbf	ASTM D790
Tensile Strength	1,308	psi	ASTM D638
Izod Impact	1.57	Ft-lbs/in.	ASTM D256

*These are typical values and are not to be construed as specific product limits

Physical Properties: Table 2

Part Number Identifier	Nominal Panel Thickness	Nominal Panel Weight	Color	Size
NCP-I-TG	.400" (10mm)	1.0# psf	Custom Graphic with Matte Gloss Finish	16"X8', 10', 12', 16', 20' 24"X8', 10', 12', 16', 20' 24"x2', 4'

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Impressions™

Composition: The Impressions T&G panel is a seamless tongue and groove plastic panel composed of fluted PVC with a custom printed graphics finish on one side.

Preconditioning: Prior to installing Impressions T&G 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.

Product Limitations: NUDO Impressions T&G panels are designed as an indoor wall and ceiling panel. When installing keep panels 24" from Heater and shield Radiant Tube Heater. Utilite is designed to be installed over a solid wall surface or directly installed over non insulated exterior walls. Utilite should be installed between 60°F (16°C) to 75°F (24°C) and 35% to 55% relative humidity. Do not install panels using Power Nail Guns or Staples, use only recommended fasteners per manufacturers installation guidelines. If any portion of the panels is not deemed acceptable, notify Nudo immediately. Upon verification of unacceptable panels, Nudo will replace that portion of the material, but will not take responsibility for the labor, other handling, or installation expenses.

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.
- Panels shall be installed in accordance with the manufacturer's guidelines as set forth in the installation guide lines.
- Please refer to NUDO Utilite™ Installation Guidelines for cleaning instructions.
- Panels can be installed and fabricated with the same tools and techniques as ordinary plastic 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: Utilite panels should be stored horizontally indoors on a contiguous flat surface. Panels should never be stored on the floor or an outside wall. Storage conditions are 60°F (16°C) to 75°F (24°C) and 35% to 55% relative humidity.

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