

Nudo ImpressionsTM Nudo Impressions R & RTM Graphic Wall & Ceiling Panels

Impressions is an interior decorative custom graphic composite wall and ceiling panel that combines custom graphics on a smooth aluminum surfaces 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 stand alone 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, 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	4084	psi	ASTM D638
Tensile Modulus	500353	psi	ASTM D638
Elongation	22.8	%	ASTM D638
Specific Gravity	1.17	50% Humidity Temp -23°C	ASTM D792
Izod Impact	5.7512	Ft-lbs/in	ASTM D256
Water Absorption	.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	Finish	Size
NCP-I	.120 (3mm)	1.0psf	Custom Graphic Panels	Matte Gloss	2' x 2', 2' x 4', 4' x 8', 4' x 10', 5' x10' Non-standard sizes available made-to-order.
NCP-I-RR	.120 (3mm)	1.0psf			4' x 8', 4' x 10', 5' x10' Non-standard sizes available made-to-order.

SPECIFICATIONS: The Impressions panels are manufactured with state-of-the-art digital printing equipment with 3M ink system.

COMPOSITION:

1. Aluminum printed surface with UV protected finish (top).
2. Solid HDPE core
3. Aluminum overlay (bottom)

FINISHED PANEL QUALITY:

1. The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
2. Physical properties shall be set forth in Table 1.
3. 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.
4. 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.
5. Panels shall be installed in accordance with the manufacturer's guidelines as set forth in the installation guide.

CERTIFICATION:

1. Meets the minimum requirements of the major model building codes for Class A interior wall and ceiling finishes. Flame spread of less than 25, smoke development less than 450 per ASTM E-84.

FABRICATING RECOMMENDATIONS:

Note: Protect your eyes with goggles; cover your nose and mouth with a filter mask when cutting Impressions panels. When cutting Impressions, position the panel so that the saw blade enters the painted side first, to avoid damaging face of panel.

Hand Fabricating: Drilling – high speed drill bit (60° cutting angle, with 12° - 15° clearance) or hole saw.

Cutting: 72-tooth circular saw with reinforced carborundum or carbide-tipped blade.

STORAGE:

Impressions should be stored horizontally indoors on a contiguous flat surface. Protective film should remain on the panel until installation. Panels should never be stored on the floor or an outside wall. Optimum storage conditions are 60°F (16°C) to 75°F (24°C) and 35% to 55% relative humidity.

PRECONDITIONING:

Prior to installing Impressions, 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 operation conditions. **DO NOT REMOVE PROTECTIVE FILM FROM PANEL SURFACE UNTIL AFTER INSTALLATION AND BUILDING IS AT OPERATIONAL TEMPERATURE CONDITIONS.**

PRODUCT LIMITATIONS:

Impressions are designed as an indoor decorative panel. It should never be exposed to extremely high or extremely low moisture conditions. Impressions is designed to be installed over

a solid wall surface and should never be directly installed over studs or non insulated exterior walls. Impressions 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.

CLEANING INSTRUCTIONS:

Impressions is easy to clean. In most cases, use a clean, damp, non-abrasive cotton cloth and a mild liquid detergent or household cleaner. Always rinse with clean water and a clean, non-abrasive cotton cloth. Dry the panels with a soft, clean, non-abrasive cotton cloth.

DO NOT USE : abrasive cleaners with bleach, cleaners with acid, alkali or sodium hypochlorite. They will damage and permanently discolor the surface. Be sure that bottles, rags or other materials with these cleaners never come in contact with the surface.

Examples of harsh cleaners to avoid, include but are not limited to:

- Bleach
- Drain Cleaners
- Metal Cleaners
- Oven Cleaners
- Rust Removers
- Tub and Tile Cleaners
- Lime Scale Remover

REMOVAL OF STAINS:

To remove stains, use full strength Fantastik, All Purpose Cleaner, Formula 409, Pine-Sol, or other mild household cleaners. Blot with clean, damp, non-abrasive cotton cloth, and rinse with cleaner water. When recommended cleaner changes its formulation, the change may be harmful to the surface. Nudo Products, Inc. cannot be held responsible for these changes. Follow all directions and warnings on the cleaner label because many are extremely flammable.

Dyes and pharmaceutical products will permanently stain the panels. These include hair dyes and rinses, silver nitrate, laundry bluing, tannic acid, povidone-iodine, dermatological tar compounds, and peroxide. To reduce these stains, apply a paste of baking soda and water on the area to pull out the stain. Do not rub, as the paste will be slightly abrasive. Wipe up the past with a clean, damp, non-abrasive cotton cloth, and rinse with clean water.

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 COMPARISION 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.

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.



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Nudo Impressions T & G™ Class A Wall & Ceiling Panels

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, enhancing any space.

Physical Properties: Table 1

Property	Typical Value*		Test Method
Surface Burn Test	Class A	NFPA / IBC	ASTM E84
Surface Burn Test - Canadian	Class A	CFIA	ULCS 102.2
Flexural Strength	2,223	Lbf /in ²	ASTM C393
Flexural Modulus	156,976	psi	ASTM C393
Flexural Load	10,496	psi	ASTM D3043
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	Finish	Size
NCP-I-TG	.400 (10mm)	1.0psf	Custom Graphic	Matte Gloss	16" x 8', 10', 12', 16' x 20' 24" x 8', 10', 12', 16' x 20' 24" X 2', 4'

SPECIFICATIONS: The Impressions panels are a seamless tongue and groove plastic panel.

COMPOSITION:

4. Digital printed image with UV protection on face
5. Fluted PVC Core

FINISHED PANEL QUALITY:

5. The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
6. Physical properties shall be set forth in Table 1.
7. 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.
4. Panels shall be installed in accordance with the manufacturer's guidelines as set forth in the installation guide.

CERTIFICATION:

2. Meets the minimum requirements of the major model building codes for Class A interior wall and ceiling finishes. Flame spread of less than 25, smoke development less than 450 per ASTM E-84.

FABRICATING RECOMMENDATIONS:

Note: Protect your eyes with goggles; cover your nose and mouth with a filter mask when cutting Impressions panels. When cutting Impressions, position the panel so that the saw blade enters the glossy front side first, to avoid damaging face of panel.

Hand Fabricating: Drilling – high speed drill bit (60° cutting angle, with 12° - 15° clearance) or hole saw.

Cutting: 72-tooth circular saw with reinforced carborundum or carbide-tipped blade, cut slowly.

STORAGE:

Impressions should be stored horizontally indoors on a contiguous flat surface. Protective film should remain on the panel until installation. Panels should never be stored on the floor or an outside wall. Optimum storage conditions are 60°F (16°C) to 75°F (24°C) and 35% to 55% relative humidity.

PRECONDITIONING:

Prior to installing Impressions, 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 operation conditions. **DO NOT REMOVE PROTECTIVE FILM FROM PANEL SURFACE UNTIL AFTER INSTALLATION AND BUILDING IS AT OPERATIONAL TEMPERATURE CONDITIONS.**

PRODUCT LIMITATIONS:

Impressions should never be exposed to extremely high or extremely low moisture conditions. When installing keep panels 24" from Heater and shield Radiant Tube Heater. Impressions is designed to be installed over a solid wall surface or directly installed over studs, concrete, concrete block, or non insulated exterior walls. Impressions 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. Non-compliance with product limitations may affect future performance and voids warranty.

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.

CLEANING INSTRUCTIONS:

Impressions is easy to clean. In most cases, use a clean, damp, non-abrasive cotton cloth and a mild liquid detergent or household cleaner. Always rinse with clean water and a clean, non-abrasive cotton cloth. Dry the panels with a soft, clean, non-abrasive cotton cloth.

DO NOT USE: Abrasive cleaners with bleach, cleaners with acid, alkali or sodium hypochlorite. They will damage and permanently discolor the surface. Be sure that bottles, rags or other materials with these cleaners never come in contact with the surface.

Examples of harsh cleaners to avoid, include but are not limited to:

- Bleach
- Drain Cleaners
- Metal Cleaners
- Oven Cleaners
- Rust Removers
- Tub and Tile Cleaners
- Lime Scale Remover

REMOVAL OF STAINS:

To remove stains, use full strength Fantastik, All Purpose Cleaner, Formula 409, Pine-Sol, or other mild household cleaners. Blot with clean, damp, non-abrasive cotton cloth, and rinse with cleaner water. When recommended cleaner changes its formulation, the change may be harmful to the surface. Nudo Products, Inc. cannot be held responsible for these changes. Follow all directions and warnings on the cleaner label because many are extremely flammable.

Dyes and pharmaceutical products will permanently stain the panels. These include hair dyes and rinses, silver nitrate, laundry bluing, tannic acid, povidone-iodine, dermatological tar compounds, and peroxide. To reduce these stains, apply a paste of baking soda and water on the area to pull out the stain. Do not rub, as the paste will be slightly abrasive. Wipe up the past with a clean, damp, non-abrasive cotton cloth, and rinse with clean water.

Stains that are stubborn or even permanent and may not disappear include: wood stains, cash register inks, newsprint, marking pen inks, indelible ink, food pricing ink, and label inks.

Stubborn stains that may disappear on their own after a short time or after repeated cleaning include food stains, glass rings, water marks, coffee and tea stains.

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 COMPARISION 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.



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