

**NUDO FiberScore™ FRP Class C
 Wall & Ceiling Panels**

NUDO FiberScore FRP panels are solid sheets, composed of homogeneous mixture of calcium carbonate, fiberglass and resin with a water-based acrylic top coat and complies with the ASTM D5319 Standard for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels. This smooth panel is designed for interior wall finishes where, washable, durable panels are needed. NUDO FiberScore FRP is a durable, flexible building wall material that is resistant to mold, mildew and corrosion and meets the USDA guidelines. The panel has a Class C rating for flame spread and smoke development when tested per ASTM E-84.

Physical Properties: Table 1

Property	Typical Value		
	.09"	Measure	Test Method
Flexural Strength	10,000	psi	ASTM D790
Flexural Modulus	1.0 x 10 ⁵	psi	ASTM D790
Tensile Strength	7.5 x 10 ³	psi	ASTM D638
Tensile Modulus	1.7x 10 ⁶	psi	ASTM D638
Water Absorption	0.15	72 hrs @ 21°C	ASTM D570
Izod Impact	13	Ft-lbs/in	ASTM D256
Coefficient of Linear Thermal Expansion	1.6 x 10 ⁻⁵	50% Humidity Temp -23°C	ASTM D696
Barcol Hardness	50	Average	ASTM D2583
Specific Gravity	1.8	N/A	ASTM D792
Flame Spread Index	≤ 200	Unit N/A	ASTM E84
Smoke Generation	≤ 450	Unit N/A	ASTM E84
Surface Burn Test	Class C/III	Class C/III	ASTM E84

Physical Properties: Table 2

Part Number Identifier	Nominal Panel Thickness	Nominal Panel Weight	Color	Reflectance Value	Size
50-G44	.090	.65 psf	White	86.0	4' x 8', 10'
698-G448	.090	.65 psf	Almond	79.0	4' x 8', 10'



SPECIFICATIONS: The NUDO FiberScore FRP panels are manufactured with state-of-the-art laminating equipment and adhesives.

COMPOSITION:

1. Homogeneous mixture of calcium carbonate, fiberglass and resin with a water-based acrylic top coat.

FINISHED PANEL QUALITY:

1. The front side shall be smooth with a score finish on front of panel. Colors shall be throughout the panel, and manufactured as specified.
2. The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
3. Physical properties shall be set forth in Table 1.
4. 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.
5. 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 for 8' panel and $5/32$ for 10' panel.
6. 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 C interior wall finishes. Flame spread of less than 200, smoke development less than 450 per ASTM E-84.
2. Meets USDA/FSIS and LA County requirements
3. Mold & Mildew resistance per ASTM D3273-94 and D3274-95

FABRICATING RECOMMENDATIONS:

Note: Protect your eyes with goggles; cover your nose and mouth with a filter mask when cutting FiberScore FRP panels. When cutting FiberScore FRP, position the panel so that the saw blade enters the decorative side first, to avoid chipping and damage.

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:

FiberScore FRP should be inspected upon receipt. Notify NUDO immediately if any panels are deemed unacceptable. Panels 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 FiberScore FRP, 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.

PRODUCT LIMITATIONS:

FiberScore FRP is designed as an indoor decorative panel. FiberScore FRP 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. FiberScore FRP 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.

SERVICEABLE TEMPERATURE RANGE:

FiberScore FRP shall maintain its performance characteristics and physical properties in temperatures ranging from -40°F to 130°F.

FiberScore FRP may discolor near heat sources – such as ovens, Fryers, heat lamps and toasters where temperatures exceed 130°F.

CLEANING INSTRUCTIONS:

FiberScore FRP 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
- Over 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 ratings 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.

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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