

## FRP Wall Panels with the Appearance of Tile.



### Nudo FiberScore™ Technical Data

NUDO FiberScore FRP panels are solid sheets, composed of homogeneous mixture of calcium carbonate, fiberglass and resin with a water-based acrylic topcoat and complies with the ASTM D5319 Standard for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels. This smooth panel has 4" x 4" scores and 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 standards.

Physical Properties: Table 1

Typical Value			
Property	.090"	Measure	Test Method
Surface Burn Test	Class C	N/A	ASTM E84
Smoke Development	≤450	N/A	ASTM E84
Flame Spread Index	≤ 200	N/A	ASTM E84
Flexural Strength	10,000	psi	ASTM D790
Flexural Modulus	1.0 X 10 <sup>5</sup>	psi	ASTM D790
Tensile Strength	7.5 X 10 <sup>3</sup>	psi	ASTM D638
Tensile Modulus	1.7 X 10 <sup>6</sup>	psi	ASTM D638
Water Absorption	0.15	72hrs. @21° C	ASTM D570
Izod Impact	13	FT-lbs/in.	ASTM D256
Coefficient of Linear Thermal Expansion	1.6 X 10 <sup>-5</sup>	50% Humidity Temp -23°C	ASTM D696
Barcol Hardness	50	Average	ASTM D2583
Specific Gravity	1.8	N/A	ASTM D792

Physical Properties: Table 2

Part Number Identifier	Nominal Panel Thickness	Nominal Panel Weight	Color	Reflectance Value	Size
50-G44	.090"	0.65# psf	White	86.0	4'X8', 10'



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

**Preconditioning:** Prior to installing FiberScore laminated 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.

**Product Limitations:** FiberScore laminated panels are designed as an indoor wall and ceiling panel. It should never be exposed to extremely high or extremely low moisture conditions. Color distortion may also occur when panels are exposed to excessive heat source that exceeds 130F (54C), such as ovens, deep fryers, stoves, etc. Panels should be inspected on-site prior to installation. If any portion of the panels are not deemed acceptable, notify Nudo Product immediately. Upon verification of unacceptable panels, Nudo Product 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 front side of the panel shall be a smooth with a 4"x4" scored finish to appear like tile. 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.
- FRP dimensional tolerances will be:
  - Width: +0" - 1/8" (4mm)
  - Length: ± 1/8" (4mm)
  - Squareness: 1/8" (4mm) in 48" (1.2m).
- Please refer to NUDO FiberScore™ Installation Guidelines for cleaning instructions.
- Panels can be installed and fabricated with the same tools and techniques as ordinary wall panels. Carbide-tipped tools are recommended, as well as safety equipment. Eye protection and filtered mask should be worn during cutting and trimming operations. Additional Installation and fabrication instructions can be found in NUDO FiberScore™ Installation Guidelines.

**Storage:** FiberScore laminated 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.



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**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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