

6751
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SMXST

STRUCTODECOR DECORATIVE TILE-LOOK WALL PANEL CLASS C FIRE RATING PER ASTM-E84

Product:

StructoDecor Class C fiberglass reinforced flat panels will not rot, rust, corrode, stain, dent, peel, or splinter. Panels exhibit a high strength-to-weight ratio with expansion/contraction values similar to aluminum.

Purpose:

StructoDecor panels are recommended for use on interior walls requiring a Class C fire-rated finish to upgrade to the look of a wall application where the traditional embossed pattern of frp panels may not be desired.

Tile-Look FRP:

Semi-smooth finish with a sandstone appearance, scored with 4" x 4" tile-look simulated grout lines with mold and mildew resistant clear acrylic coating. Available in white or almond.



TABLE ONE: PHYSICAL PROPERTIES

Typical Values		Test Method
Property	SMXST 0.09" (2.3 mm)	
Tensile Strength	8,000 psi (55 MPa)	ASTM D 790
Tensile Modulus	750,000 psi (5171 MPa)	ASTM D 790
Flexural Strength	20,000 psi (138 MPa)	ASTM D 638
Flexural Modulus	600,000 psi (4137 MPa)	ASTM D 638
Impact Strength (IZOD)	5.5 ft•lbs/in (0.29 J/mm)	ASTM D 256
Barcol Hardness	45	ASTM D 2583
Coefficient of Linear Thermal Expansion	2 x 10 ⁻⁵ in/in•°F (36µm/m•°C)	ASTM D 696
Water Absorption %	<0.75% in 24 hrs @77°F (25°C)	ASTM D 570

TABLE TWO: DESIGN TABLE

Product Code	Nominal Thickness	Colors	Finish	Fire Rating	Size
SMXST	0.09" (2.3 mm)	488 White 866 Almond	4" Tile Look	Class C Per ASTM-E84 ≤ 200 flame spread ≤ 450 smoke developed	4' x 8' (1.2 m x 2.4 m) 4' x 10' (1.2 m x 3.0 m)

SPECIFICATIONS:

These panels are manufactured by a continuous laminating process in lengths as required.

Composition:

1. Reinforcement: random chopped fiberglass roving.
2. Resin mix: modified polyester copolymer and inorganic fillers and pigments.

Finished Panel Quality:

1. Panels shall have a wear side with a sandstone embossed tile-look finish. Color shall be uniform throughout, as specified. The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
2. Physical properties shall be as set forth in Table 1.
3. Product quality standards and tolerances for panel weight and thickness shall be as set forth in Kemlite Company's Quality Control Procedures/Standards which are available on request.
4. Dimensions shall be as specified on purchase order, subject to the following tolerances:
Width: $\pm 1/8"$ (3.2 mm)
Length: $\pm 1/8"$ (3.2 mm) up to 12' (3.7 m)
Squareness: not more than $1/8"$ (3.2 mm) out of square
5. Panels shall be installed in accordance with manufacturer's guidelines as set forth in the StructoDecor "Installation Guide."

FABRICATING RECOMMENDATIONS:

Note: Protect your eyes with goggles and cover your nose and mouth with a filter mask when cutting StructoDecor panels.

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

Cutting: Sheet metal shears or circular saw with reinforced carborundum or carbide-tipped blade.

Production fabrication: Use carbide-tipped tools. Straight cuts can be sheared (90° cutting edge with 0.002" (0.05 mm) clearance) or sawed. For irregular cuts, use die punch or band saw.

STORAGE:

All StructoDecor products should be stored indoors.

SERVICEABLE TEMPERATURE RANGE:

Panels will perform in temperatures from -40°F (-40°C) to 150°F (66°C). For use in environments beyond this range contact Kemlite Company for recommendations.

LIMITATIONS:

Near heat source - StructoDecor panel products may discolor when installed behind or near any heat source which radiates temperatures exceeding 130°F (55°C), such as cookers, ovens, and deep fryers.

NOTICE:

Panels will provide a clean, aesthetically-pleasing finished installation. However, by nature, fiberglass reinforced plastic paneling may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation. If any portion of material does not provide an acceptable appearance, Kemlite Company should be notified at once. Upon verification of unacceptability, that portion of material will be replaced by Kemlite Company. Kemlite Company's sole responsibility is for the replacement of defective materials but not for labor or other handling or installation expenses.

CERTIFICATION:

- A. Flame spread 200 or less, smoke developed 450 or less (per ASTM E-84)
- B. Meets USDA/FSIS requirements
- C. Frp does not support mold or mildew (per ASTM D3273 and ASTM D3274)

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending a license under valid patents.

FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS

The numerical flame spread and smoke development ratings are not intended to reflect hazards presented by Kemlite Company 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 standard (commonly referred to as the "Tunnel Test"). KEMLITE COMPANY PROVIDES THESE RATINGS FOR MATERIAL COMPARISON PURPOSES ONLY. Like other organic building materials (e.g. wood), panels made of fiberglass reinforced plastic resins will burn. When ignited, frp 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.