

FRP™ Technical Bulletin

TECHNICAL INFORMATION**Panolam FRP Embossed Wall Panels****Class C Fire Rating**Description:

Panolam FRP (fiberglass reinforced plastic) panels are durable, cleanable, impact resistant and will not rot, corrode, stain, dent or splinter and will not support mold or mildew.

The panels are recommended for use as interior wall panels that require a class C fire rating material.

Physical Properties:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Flexural Strength	13,841	ASTM D790
Flexural Modulus	0.689	ASTM D790
Tensile Strength	9,958	ASTM D638
Tensile Modulus	1.082	ASTM D638
Impact Strength (IZOD)	4	ASTM D256
Barcol Hardness	53	ASTM D2583
Coefficient of Linear Thermal Expansion (in/in - Fx 10 ⁻⁵)	3.51	ASTM D696
Water Absorption, %	0.2	
Surface Burning	Class C	ASTM E84

Specifications: Panels are produced in a continuous laminating process in various widths and lengths as required.

Composition:

1. Random chopped fiberglass roving reinforcement.
2. Resin mix: Polyester copolymer, inorganic fillers, pigments and catalysts.

Finished Panel Quality:

1. The "A" side of the panels available in either an embossed (pebble) or smooth surface. Color specified is uniform throughout. The "B" side of the panels are smooth. Imperfections on the "B" side that do not affect panel performance are not cause for rejection.
2. Physical properties as shown above.
3. Product quality standards:
 - a. Thickness - +/- 10%
 - b. Width and length tolerance - 1/8" up to 12' lengths
 - c. Squareness not more than 1/8" in 12'
 - d. Color - within 1 Delta (Δ)
4. Panels to be installed per manufacturer's installation guide.

Fabricating Recommendations:

1. Protective eyewear and a filtering mask should be worn when cutting FRP panels.
2. When drilling holes in panels, a high-speed carbide drill bit should be used.
3. When cutting panels, sheet metal sheers may be used along with a circular saw with carbide-tipped blade.
4. Machine punch, band saws and table shear may also be used.

Storage:

All FRP panels should be stored indoors.

Temperature Range of Use:

Panels will not be adversely affected in temperatures ranging from -40°F to 150°F. Uses beyond this range should be pre-approved by the manufacturer.

Inspection of Panels:

Panels should be inspected on-site, prior to installation. If there are any defective areas that make the panels aesthetically unfit for use, contact Panolam immediately. Upon verification, the defective panel will be replaced by Panolam. Panolam's sole responsibility is the replacement of defective material only, but not for labor or any other installation expenses.

Certification:

Flame spread \leq 200, smoke developed \leq 450 as tested per ASTM E-84. Panolam FRP panels do not support mold or mildew and meets USDA and NSF requirements.

These ratings are based on UL testing facilities findings as well as other testing labs based on various ASTM test methods.

Limited Warranty

Subject to the limitations set forth below, Panolam Industries International Inc. expressly warrants that our products are reasonably free of defects in material and workmanship, and when properly handled and fabricated will conform, within accepted tolerances, to applicable manufacturing specifications as set forth in our technical brochure. This warranty shall extend to the original buyer for a period of twelve (12) months from the date of shipment of this product by Panolam Industries International Inc., and shall not be assignable by the original buyer. This warranty does not cover damage resulting from accident, misuse, alteration, abuse or lack of reasonable care.

Due to the variety of uses and applications to which this product may be put, and because the manufacturer has no control over the end products fabricated, the warranty set forth above is exclusive and in lieu of all other warranties, express or implied, in fact or by operation of law or otherwise, or arising by course of dealing or performance, custom or usage in the trade, including, without limitation, the implied warranties of fitness for a particular purpose and merchantability, and Panolam Industries International Inc. shall have no obligation or liability to any person or entity in connection with or arising from the furnishing, sale, installation or repair, use or subsequent sale of any product supplied by it.

The buyer's sole and exclusive remedy for any noncompliance with the express warranty set forth above shall be limited to repair or replacement of the defective product, or, in the event that repair or replacement is not feasible, return of the product and refund of the purchase price.

Under no circumstances shall the manufacturer be liable in excess of the purchase price of this product, in either tort or contract or otherwise, for any loss, damage or injury in connection with or arising from the purchase, use, or inability to use this product, or for any special, indirect, collateral, incidental, consequential or exemplary damages such as, but not limited to, loss of anticipated profits or other economic loss. Because some states do not allow the exclusion or limitation of incidental or consequential damages, this limitation may not apply to you.

Retaining all documentation after purchasing laminate will significantly expedite claim resolution.

Panolam Industries International Inc.

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Printed in USA
Patent Pending



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