



Fiberglass reinforced polyester (FRP) panel manufacturing experts at Amerimax Building Products, Inc. scientifically engineered **Fusion^{THP} Panels** with high quality raw materials and our state-of-the-art manufacturing process to produce a revolutionary new fiberglass panel. The result is an aesthetically superior and structurally advanced fiberglass panel unmatched in the towable market. **Fusion^{THP} Panels** fill the void in the towable market for a panel that combines performance, value, and quality. Its integrated lauan backer system significantly reduces the risk of delamination issues, while its high performance materials produce a high gloss, weather resistant panel that is virtually fiber-free.

Produced in a 100,000 square foot, state-of-the-art manufacturing facility, **Fusion^{THP} Panels** utilize an exclusive chemical formulation to provide the following features and benefits:

Feature	Benefit
High Performance Gel Coat	• High gloss • Superior UV resistance • Smoother finish • Virtually fiber-free • Easy to wash and maintain
Thicker Gel Coat	• Superior weathering properties • Enhanced appearance
Integrated Lauan Backer System	• Superior physical properties • No adhesive bond line • Reduced delamination potential

Finished Panel

1) The panel surface shall have a smooth finish. Color shall be uniform throughout the panel surface. The backside of the panel shall be a uniform lauan backer. Lauan imperfections which do not affect functional properties are not cause for rejection and are subject to the specifications of the lauan supplier.

2) Physical properties are detailed in the Physical Properties Table.

3) Dimensions shall be as specified on purchase order. The following are the panel capabilities:

Description	Value	Tolerance
Thickness:	0.164"	± 10%
Width:	Up to 9'6"	±1/8"
Length:	Up to 40'	±1/4"
Squareness:	-	±1/8" every 4'

Fabrication

Safety: Always wear protective eye goggles; cover nose and mouth with an air filter mask; cover exposed skin when cutting **Fusion^{THP} Panels**.

Drilling: Use a high speed drill bit when drilling or hole saw.

Cutting: Use carbide-tipped saw blades.

Painting preparation: Sanding or roughening of the panel surface is not required to achieve acceptable paint adhesion, but is recommended. Panels must be clean, dry, and free of all oils, dust, and contaminants before paint application. Amerimax recommends that the FRP surface is either primer washed or solvent wiped to remove oils, dust, and contaminants.

Storage Requirements

Keep contents dry. Store panels indoors in a well ventilated and dry location. Exposure to moisture will cause discoloration and lead to poor adhesive bonding.

Purchasing

Panel Size:	Up to 9'6" x 39'6"
Min. Order:	2,000 sq. ft.
Lead Time:	10 days
Skid Quantity:	25 panels



Fusion^{THP} Panel Composition

Integrated Lauan Backer System

Fiberglass/Resin

High Performance Gel Coat

Property	<i>Fusion^{THP}</i> *	Competitor 1 * (laminated to lauan)	Competitor 2 * (laminated to lauan)	Test Method
Tensile Strength (psi)	8,000	3,800	2,610	ASTM D638
Tensile Modulus (mpsi)	1.06	0.62	0.65	ASTM D638
Flexural Strength (psi)	32,940	22,420	16,900	ASTM D790
Flexural Modulus (mpsi)	3.67	2.06	1.64	ASTM D790
Izod Impact (ft. lbs./in.)	5.74	2.97	2.00	ASTM D256
Glass Content	20%	20%	20%	ASTM D2583

*Source: OCM Test Lab – Anaheim, CA (10/6/05 and 4/10/06); average values

Tensile Strength: Measures how much of a load a material can take before it fractures or breaks when it is in the process of being stretched.

Tensile Modulus: A number associated with pulling or stretching a material (tension) and how much it elongates when a certain load is applied.

Flexural Strength: Measures how much of a load a material can take before it fractures or breaks when it is in the process of being flexed.

Flexural Modulus: A number associated with the flexibility or stiffness of a material. It indicates how far a material will bend when a certain load is applied.

Izod Impact: Measures the amount of impact a material can withstand.

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