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Wall Shield & Wall Shield Plus Security Panels With Lexan® Polycarbonate

Durable, Reliable, and Secure

Introduction

Our Wall Shield & Wall Shield Plus panels provide an incredibly tough, high-impact, penetration resistant finish barrier. Using a variety of substrates to create a solid, durable panel, our Wall Shield & Wall Shield Plus panels are ideal for high security or high impact areas. Our Wall Shield & Wall Shield Plus panels are also available with interior FRP finish that offer attractive, scratch and impact resistant finishes, meet all fire ratings, resist moisture, stains, odors, chemicals and clean easily.



Suggested Applications and Uses

Our Wall Shield Panels can be used in a variety of applications such as walls, ceilings, partitions (interior or exterior) and provide excellent performance. Wall Shield and Wall Shield Plus panels handle just like typical gypsum panels, and be installed directly to studs or joists for fast, easy, cost-effective construction. Use them for:

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|---------|---------------|---------------------|---------------------|
| Prisons | Hospitals | Municipal Buildings | Locker Rooms |
| Jails | Holding Cells | Hallways | Interrogation Rooms |

Laminates

Lexan® Polycarbonate laminates are available in a variety of thicknesses. Wall Shield performs exceptionally in a multitude of applications and provides an extremely durable finish that is ideal for high impact and heavy abuse areas. Wall Shield Plus provides an FRP surface that is durable and easy-to-clean. All panels have Lexan® polycarbonate barriers to dramatically increase impact resistance and holding power for anchors.

Standard Colors (FRP): White, Ivory, Almond, Beige, Grey, Silver, Black

Polycarbonate Thicknesses: .060", .090", .125"

FRP Thicknesses: .040", .090"

Panels Sizes and Thicknesses

We offer a variety of panel sizes and thicknesses to accommodate standard construction projects, and we have the capacity to custom cut your material to your specifications. Our standard offerings are:

- Panels Sizes: 4'x8', 4'x 9', and 4' x 10'
 Panel Thicknesses: 1/2", 5/8"

Substrates:

Creative Panel Solutions uses only the finest, highest quality Class A Fire Rated Gypsum panels for Wall Shield & Wall Shield Plus, and are available with square or tapered edges.

Additional Components and Installation

Moldings, sealants, and adhesives, are available to enhance your installation. Refer to our Installation Instructions or call for more information.

Physical Characteristics--FRP

Property	.090"	Test Method
Flexural Strength	10,000 psi	ASTM D790
Flexural Modulus	3.1x 10 ⁵ psi	ASTM D790
Tensile Strength	8,000 psi	ASTM D638
Barcol Hardness	35	ASTM D2583
Izod Impact Resistance	7 ft-lb/in notched	ASTM D256
Specific Gravity	1.53	ASTM D792
Coefficient of Linear Thermal Expansion	1.6 x 10 ⁻⁵ in/in- ⁰ F	ASTM D696
Water Absorption	0.8%/24 hours@77 ⁰ F	ASTM D570
Flame Spread Index	25	E84-81A
Smoke Developed Value	450	E84-81A
Fire Rating Class	A/1	
Ignition Temperature	650 ⁰ F	D1929
Compressive Strength	19,000 PSI	D695
Compressive Modulus	4.0 x 10 ⁵ PSI	D695

Physical Characteristics--Polycarbonate

Property		Test Method
Flexural Strength	12,500 psi	ASTM D790
Flexural Modulus	3.1x 10 ⁵ psi	ASTM D790
Tensile Strength	8,000 psi	ASTM D638
Tensile Modulus	3.1x 10 ⁵ psi	ASTM D638
Specific Gravity (color dependent)	1.20	ASTM D792
Water Absorption	0.25%/24 hours@77 ⁰ F	ASTM D570
Impact Strength 75 ⁰ F -20 ⁰ F	75 50	Dynatup (1/2" Diameter Dart)
Izod Impact Strength Un-notched 75 ⁰ F Un-notched -20 ⁰ F	No Break No Break	ASTM D256A
Coefficient of Linear Thermal Expansion	3.75 x 10 ⁻⁵ in/in- ⁰ F	ASTM D696
Heat Deflection Temperature @ 66 psi @264 psi	280 270	ASTM D648
Mold Shrinkage	.007-.009	



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