Fluted Core Panels

Waterproof, Durable, and Easy to Maintain

Introduction

Our Fluted Core panels incorporate a variety of laminates to create a solid, durable panel to finish your spaces in just one step. Our Fluted Core panels are ideal for new construction as they install directly to studs for a fast, simple, cost-effective one-step installation. Like our other Laminated Panels, our Fluted Core panels also offer an attractive, impact resistant finish and will not hold food or dirt particles, plus they are completely waterproof and resist mold, mildew, and rot in addition to stains, odors, chemicals. These panels last the lifetime of your build-out, and clean easily with steam, high pressure sprayers or soap and water.
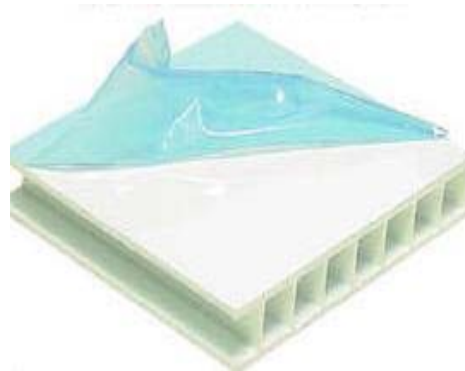
Suggested Applications and Uses

Our Fluted Core Panels can be used in a variety of applications such as walls, ceilings, partitions (interior or exterior) and provide excellent performance. Install them directly to studs or joists for fast, easy, cost-effective construction, or have us cut them to size for use in suspended ceiling applications. These panels meet all USDA standards, so you can install them with confidence. Use them for:

Bakeries	Meat Packing Facilities	Locker Rooms	Car Wash Bays
Clean Rooms	Food Processing Plants	Milking Parlors	Hog Confinements
Swimming Pools	Supermarkets	Veterinary Clinics	Restaurants
Cold Storage Facilities	Animal Kennels	Poultry Confinements	Warehouses
Laboratories	Restrooms	Farm Buildings	Cafeterias
Schools	Water Treatment Plants	Kitchens	Truck Trailers

Laminates

Fluted Core panels are available with a variety of laminates in a variety of colors, textures and thicknesses. FRP, HDPE, and aluminum all perform exceptionally when laminated to Fluted Core substrate, and all of these products are accepted by the USDA, FDA, and Agriculture Canada. In addition, these panels provide a finish that is ideal for light duty, high moisture areas. Standard Laminates are Class C fire rated per ASTM E-84.

Standard Colors: (HDPE) White (FRP) White, Beige, Ivory, Almond, Silver, Grey, Black
Additional Colors: May be available on requests. Please call for details.
Laminate Thicknesses: .040", .060", .090"
Finish Options: Textured or Smooth

Additional Components and Installation

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

Substrates:
Our Fluted Core substrate is made of only the finest copolymer plastics to ensure high quality, water resistance, impact resistance, and dimensional stability. These panels can be laminated with HDPE, FRP, or aluminum overlays, and provide excellent durability in a variety of applications.

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' and 4'x 10'
Panel Thicknesses: 5 mm, 10 mm

For custom cut applications, or for sizes and thicknesses not listed, please contact Creative Panel Solutions Technical Support to learn how we can customize panels for your project to streamline your installation and save you money.

Physical Characteristics

Property		Test Method
Flexural Strength	17,000 PSI	ASTM D790
Flexural Modulus	6.9×10^5 PSI	ASTM D1043
Barcol Hardness	35	ASTM D2583
Compressive Strength	19000 PSI	ASTM D695
Compressive Modulus	8.1×10^5 PSI	ASTM D695
Tensile Strength	12000 PSI	ASTM D638
Tensile Modulus	9.43×10^5 PSI	ASTM D638
Izod Impact Resistance	6 ft-lb/in	ASTM D256
Elongation	1.8%	ASTM D638
Water Absorption	.4% @ 72 hours	ASTM D570
Fire Rating Class	C/3	
Flame Spread Index	195	E84
Smoke Developed Value	360	E84
Thermal Expansion	1.57×10^5 In/In/°F	D2863
Ignition Temperature	635^0 F	D1929
Specific Gravity	1.55	D792

Creative Panel Solutions
Custom Panel Laminators