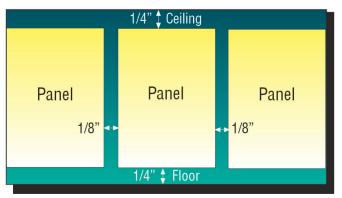
General Installation Instructions For Exceliner Wall & Ceiling Liner Panels



Preparation

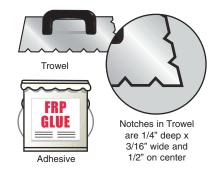
Exceliner panels should only be installed over solid wall surfaces (wood, gypsum board, concrete, etc.). Wall surfaces should be clean, flat, dry and smooth. Panels should only be stored indoors, in a dry area and be inspected upon receipt in a well lit area to insure customer satisfaction before installation.



Adhesives

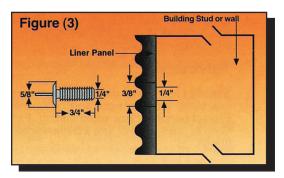
Adhesives are recommended for use on Exceliner Panels. Follow manufacturer's instructions carefully as many adhesives are FLAM-MABLE, and some may not be compatible with paneling. When using adhesive, spread over entire back of panel, using the recommended notched trowel method. Make sure that adhesive is in full contact with the backing.





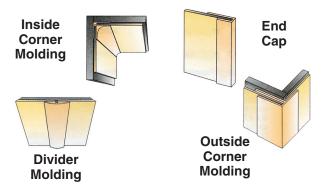
Tools

Panels can be cut using power saws with a carbide tip or masonry blade. Caution: Protect eyes with goggles and cover mouth with filter mask when cutting Exceliner Panels.



Moldings and Sealants

Vinyl moldings should be placed at all joints for proper panel installation. Available color matched moldings are shown below. Use of moldings and silicone sealant with panels is recommended to achieve a moisture resistant installation. Always leave 1/8" between panels and molding for expansion and contraction of the panels.



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Exceliner Panel Technical Bulletin #0741

Maximum Sanitation Protection

Exceliner's advanced liner panel systems are designed to offer maximum sanitation protection and significant cost savings over other materials. Our liner panels are designed to fit any commercial application. Developed specifically for the food industry, Exceliner panels are USDA & Agriculture Canada approved and can help make any area meet today's sanitation standards.

Outstanding Cleanability

Exceliner panels are extremely resistant to moisture and easily cleaned with regular detergents and water. With proper installation, Exceliner panels can make a watertight surface that will protect underlying walls and insulation. Exceliner panels may also be installed to form a bulwark against overhead contamination caused by conveyors, flaking paint and overhead operations. With minimum maintenance, these panels will retain their sparkling clean looks, and never need painting.

Improved Chemical Resistance

The unique antibacterial qualities of Exceliner panels help solve a multitude of sanitation problems. Tested against a wide range of chemicals, they are highly resistant to milk acids, alkalis and most common solvents. In addition, they are rustproof and mildew resistant.

High Impact Resistance

Exceliner panels have an extremely high strength to weight ratio with a tough surface that resists shattering, scratches and abrasions. Because of its "bounce back" quality, our panels are perfect for protecting truck trailer walls from pallets, sliding boxes and crates during shipping operations. They are also used as scuff plates in trucks and as wainscoting in production plants to protect against hand truck and forklift damage.

Approvals & Certifications

- ISO 9002: All Exceliner plants are ISO 9002 Certified.
- ASTM: All Exceliner Panels are manufactured according to industry standard ASTM D-3841-97.
- Agriculture Canada: All Exceliner Panels are accepted for use in Registered Establishments by Agriculture Canada.
- CAN/ULC-S102-M88: Standard method of test for surface burning characteristics of building materials
- USDA Approved
- ICBO Approved

Specifications:

Product: Exceliner Fiberglass Reinforced Interior Grade Wall & Ceiling Liner Panel

Surface: Texture One Side/Smooth Both Sides

Dimensional Tolerances: Width-Length-Diagonal Squareness +/-1/8'(up to 144')

Colors: White, Almond, Light Gray, Dark Gray, Beige, Silver, Ivory & Marble

Thickness Available: (+/-10%)

Series: 1600-.125" Series: 1200-.090" Series: 180-.060" Series: 160-.045" Width: Standard 4 Ft. Length: 8,9,10 and 12 Ft. Accessories: PVC Moldings available

Recommended Adhesive: (water based) Franklin Titebond®#4054

Laminated Panels (plywood, gypsum board & foam, etc.) are also available

Typical Physical Properties (Series 3000) Exceliner Class C Test General Purpose **Property** Unit Method Result Result ASTM D PSI 10,000 Flexural Strength 17 000 790 ASTM D PSI Flexural Modulus 6.0 x 10(5) 3.1 x 10(5) 790 ASTM D Tensile Strength PSI 8,000 7,000 638 ASTM D Tensile Modulus PSI 9.43 x 10(5) $3.1 \times 10(5)s$ 638 ASTM D-% % Elongation 1.20 1.80 638 Water Absorption ASTM D % 0.72 0.17s 21°C @ 72hrs. 570 **Izod Impact** ASTM D ft.-lbs 7.16 7.0 Strenath 256 /in. Coef. of Linear ASTM D in./in 2.22 x 10(-5) 2.39 x 10(-5) Thermal Expansion 696 /°F ASTM D Avg. 35 **Barcol Hardness** 30 2583 ASTM D Specific Gravity N/A 1.6138 1.5743 792 % \\/\ TABOR Abrasion Resistance 0.293 0.391 W/L Loss **ASTM** Flash Ignition Temp °C 400 430 1929 **ASTM** °C 430 Self Ignition Temp. 450 1929 **ASTM** Flame Spread N/A <150 <25 E-84 **ASTM Smoke Generation** N/A <450 <450 E-84



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