

Features & Benefits

- Formaldehyde-free adhesive system
- Certified to Class 1 surface spread of flame in accordance with ASTM E84-07, CAN/ULC-S102, New York City approved MEA 357-98-M
- Performance characteristics equal to standard MDF
- FSC certified panels available upon request

Mill Capabilities

Panels are available in the following dimensions. Some sizes may have a minimum order requirement;

- 4' and 5' widths
- Lengths up to 18'
- 3/8" - 1" thicknesses

Handling & Installation

- Store indoors on a flat, level surface with adequate support to prevent sagging.
- For best results, Medite® FR should be conditioned to the final environment 48-72 hours prior to installation.
- Readily accepts and holds hardware including staples, screws and other fasteners. It is recommended to pre-drill pilot holes not less than 1" from the edge on the face of the panel, or 2+1/2" from the corners when used in the edge of the panel before fastening with hardware. Additionally, hardware should be spaced at least 6" apart to reduce the risk of splitting.

Limitations

Medite® FR is not suitable for external or structural applications.

How to Specify

Industrial Grade Medium Density Fiberboard (MDF), manufactured with a formaldehyde-free adhesive system and classified as a Class 1 Flame Retardant panel in accordance with ASTM E84-07 and CAN/ULC-S102 to a Flame Spread of 20 and Smoke Developed of 100. New York City approved MEA 357-98-M.

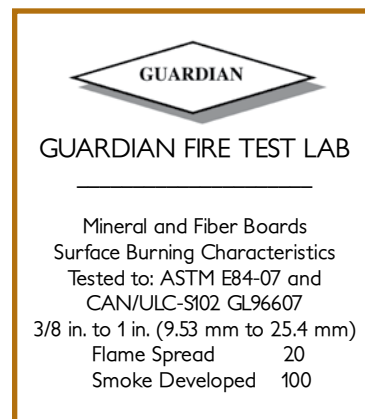
Painting/Laminating

When choosing a coating or laminate system, confirm compatibility of the paint, laminate or adhesive with the respective manufacturer and ensure the Class 1 flame spread classification of the Medite® FR panel will not be adversely affected.

Medite® FR is a sustainable Class 1 flame retardant medium density fiberboard (MDF) panel manufactured from 100% recycled wood waste, meeting the most stringent formaldehyde emission standards in the world. SierraPine's patent pending manufacturing process utilizes a formaldehyde-free adhesive system to produce Medite® FR. During processing an additive is blended with the fibers to provide flame-retardant properties throughout the board. Unlike surface flame retardant coatings, the flame retardant properties of Medite® FR aren't compromised when the panel is machined or sanded. Medite® FR is the ideal product for interior applications that require a Class 1 product and where certain indoor air quality requirements are specified.

Technical Data	Imperial	Metric
Density	48 lb/ft ³	769 kg/m ³
Internal Bond	140 lb/in ²	.96 N/mm ²
Modulus of Rupture	4,500 lb/in ²	31 N/mm ²
Modulus of Elasticity	550,000 lb/in ²	3,790 N/mm ²
Modulus of Hardness	950 lbs, Janka ball	4,226 N
Screw Holding, Face	230 lbs	1,023 N
Screw Holding, Edge	185 lbs	823 N
Thickness Tolerance	± 0.005 inches	±0.127 mm
Thickness Swell		6%
Linear Expansion		0.30%
Water Absorption		14%
Flame Spread Rating		Class 1 (A)
Moisture Content		6 - 8%
Formaldehyde Emissions		as low as 0.01 ppm

Average physical properties for 3/4" panel when tested in accordance with ASTM D1037. Specific design applications and technical data are available upon request.

**Potential of 6 LEED® Credits Supported**

Materials & Resources: 4.1, 4.2, 5.1, 5.2, 7
Environmental Quality: 4.4

**SCS Certified**

Post-Industrial Recycled Wood Fiber
No-Added Formaldehyde

**FSC Certified (Mixed Credit)**

Cert no. SCS-COC-001409
© 1996 FSC

**CHPS Compliant**

Meets Materials Specifications for
VOC emissions section 01350

**EPP Certified**

Composite Panel Association
Environmentally Preferable Product

Ideal Applications

- LEED® Projects
- Schools
- Libraries
- Hospitals
- Theatres
- Offices
- Museums

Suitable Uses

- Wall sheathing
- Wainscotting
- Display panels
- Furnishings
- Door components
- Counter Tops
- Doors

SierraPine
COMPOSITE SOLUTIONS

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