

## 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.

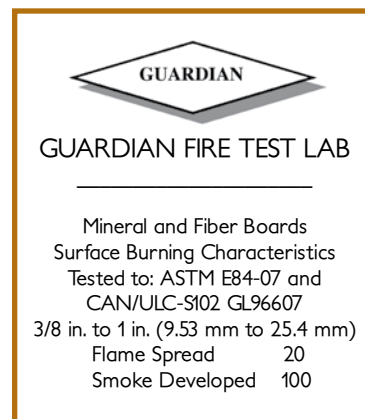
## Painting/Laminating

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 <sup>3</sup>	769 kg/m <sup>3</sup>
Internal Bond	140 lb/in <sup>2</sup>	.96 N/mm <sup>2</sup>
Modulus of Rupture	4,500 lb/in <sup>2</sup>	31 N/mm <sup>2</sup>
Modulus of Elasticity	550,000 lb/in <sup>2</sup>	3,790 N/mm <sup>2</sup>
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 sheeting
- Wainscoting
- Display panels
- Furnishings
- Door components
- Counter Tops
- Doors