

## Features & Benefits

- Awarded CARB NAF Exemption due to formaldehyde-free adhesive system
- Class 1 certified MDF with performance characteristics comparable to standard MDF
- Meets CARB ATCM 93120 Phase 2 emission limits
- Meets ANSI A208.2-2009, Grade 130
- New York City MEA Approved
- Core is dyed red for easy identification of fire retardant panel
- ♻️ FSC certified panels available upon request

## Mill Capabilities

Panels available in the following dimensions:

- 4' and 5' widths, lengths up to 18'
- 1/4" - 1-1/4" thicknesses

Some items may have a minimum order requirement

## 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 certified as a Class 1 Flame Retardant panel in accordance with ASTM E84-09 and CAN/ULC-102M to a Flame Spread of 25 or less and Smoke Developed of 50 or less.

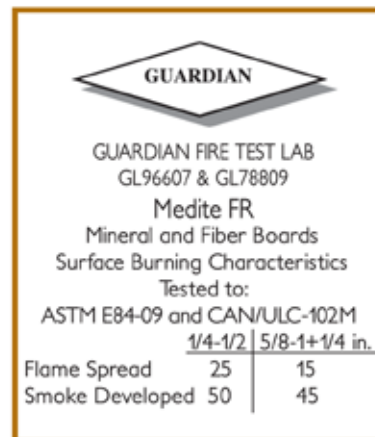
## Painting/Laminating

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 post-industrial recycled wood, meeting the most stringent formaldehyde emission standards in the world. SierraPine's patented 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 certified 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	130 lb/in <sup>2</sup>	.90 N/mm <sup>2</sup>
Modulus of Rupture	3,130 lb/in <sup>2</sup>	22 N/mm <sup>2</sup>
Modulus of Elasticity	380,000 lb/in <sup>2</sup>	2,618 N/mm <sup>2</sup>
Modulus of Hardness	750 lbs, Janka ball	340 kg
Screw Holding, Face	250 lbs	1,112 N
Screw Holding, Edge	200 lbs	890 N
Thickness Tolerance	± 0.005 inches	±0.127 mm
Thickness Swell	3%	
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. Emissions tested in accordance with ASTM E-1333.



**FSC Certified (Mixed Credit)**  
Cert no. SCS-COC-001409 © 1996 FSC



**SCS Certified**  
Post-Industrial Recycled Wood Fiber  
No-Added Formaldehyde



**EPP Certified**  
Specification CPA EPPS 3-08  
CARB Approved Third Party Certifier TPC-1

**LEED® 2009 Credits Supported**  
Materials & Resources: 4, 5, 7  
Indoor Environmental Quality: 4.4

**CHPS Compliant**  
Meets Materials Specifications for  
VOC emissions section 01350

## Ideal Applications

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

## Suitable Uses

- Wall sheeting
- Wainscotting
- Display panels
- Lobby interiors
- Door components
- Countertops
- Doors