

medite FR

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
- 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" 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 E84-07 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. **NOTE:** Retardant additive may cause adhesion problems when using adhesives containing poly vinyl alcohol. Contact SierraPine for adhesive recommendations.

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 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 ³	769 kg/m ³
Internal Bond	120 lb/in ²	.83 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. Emissions tested in accordance with ASTM E-1333.



GUARDIAN FIRE TEST LAB

Mineral and Fiber Boards
 Surface Burning Characteristics
 Tested to: ASTM E84-07 and
 CAN/ULC-S102 GL96607
 1/4 in. to 1 in. (9.53 mm to 25.4 mm)
 Flame Spread 20
 Smoke Developed 100



Potential of 6 LEED® Credits Supported

Materials and 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



EPP Certified

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

CHPS Compliant

Meets Materials Specifications for
 VOC emissions section 01B50

Ideal Applications

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

Suitable Uses

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

SierraPine
 COMPOSITE SOLUTIONS

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