

MEDITE FR[®]

DESCRIPTION

Medite FR is an MDF board developed specifically for use in situations where a Class 1 flame-retardant board is required. It is an engineered wood-based panel, manufactured from softwood fibers bonded together with formaldehyde-free synthetic resins. Its smooth Medite surface makes it the perfect material for painting, laminating or precision machining. Medite FR retains the tan color of the wood fiber used in its manufacture.

During processing an additive is blended with the fibers to provide flame-retardant properties throughout the whole board. In manufacture, the resinated wood fiber is evenly spread into mats which are then compacted and processed into a board with a machinable core and a surface ready for painting or laminating.

Medite FR is manufactured from 100% recovered and recycled wood fiber content and contains no added formaldehyde as certified by Scientific Certification Systems.

PERFORMANCE

Medite FR is certified to Class 1 surface spread of flame in accordance with Underwriters Laboratories UL 723 Flame Rating test. Medite FR has also received Materials and Equipment Acceptance (MEA) from the City of New York, MEA 357-98-M.

APPLICATIONS

Medite FR is a Class 1 panel suitable for use as wall paneling, sheathing, display panels, furnishings, door components, desks and doors.

Typical applications are schools, libraries, medical and dental facilities, hospitals, theatres, offices, laboratories and museums.

Woodfold Body Panels Class 1 Rating

Core Material Only

Light Oak and Chalk Vinyl Lam
ONLY

MEDITE FR TECHNICAL DATA AVERAGE PHYSICAL PROPERTIES*

PROPERTY	THICKNESSES		UNITS/COMMENTS
	1/4 - 3/4	1 3/16 - 1 1/4	
Density	46.0	44.0	lb/ft ³
Internal Bond	100	70	lb/in ²
Modulus of Rupture	2,700	2,000	lb/in ²
Modulus of Elasticity	320,000	300,000	lb/in ²
Hardness	900	800	lbs, Janka ball
Screw Holding, Face	225	180	lbs required to pull a 1" No. 10 sheet metal screw
Screw Holding, Edge	200	140	lbs required to pull a 1" No. 10 sheet metal screw
SI UNITS	6.4 - 19.0	20.6 - 31.8	mm
Density	737	705	kg/m ³
Internal Bond	0.69	0.48	N/mm ²
Modulus of Rupture	18.61	13.78	N/mm ²
Modulus of Elasticity	2,208	2,068	N/mm ²
Hardness	4,008	3,558	N, Janka ball
Screw Holding, Face	1,000	712	N required to pull a 25mm No. 10 sheet metal screw
Screw Holding, Edge	890	623	N required to pull a 25mm No. 10 sheet metal screw
OTHER DATA			
Water Absorption	30 - 1	11 - 5	24-hour soak - avg. %
Thickness Swell	12 - 5	5 - 2	24-hour soak - avg. %
Linear Expansion	.37 - .17	.27 - .20	% dimensional change in length and width due to humidity change from 50% to 80% RH
Moisture Content	4 - 7	4 - 8	avg. %, oven-dry basis
Thickness Tolerance	±.005" or .125mm	±.005" or .125mm	variance from nominal

* No average value of a single panel in a multi-panel sampling shall be more than ten percent out of compliance with the requirement shown in ANSI A208.2-1994, product class MD.

Stock panel sizes are 48" x 96" in thicknesses of 1/4", 3/8", 1/2", 5/8", and 3/4". Custom sizes (up to 5' x 18"), thicknesses (from 1/4" to 1 1/4") and/or cut-to-size are also available through SierraPine sales. Non-stock items may be subject to mill run and/or minimum order quantities.

Manufactured under U.S. patents 4,407,771; 4,398,873; 5,093,058; 5,188,785 and 5,200,267 - also manufactured under E.P.O. patent number 0 289 201 - 0 082 689 and select countries thereunder. Process patented under Canadian patent (bracket) 1,174,422. Other patents issued and pending in select countries worldwide.

HOW TO SPECIFY

Industrial Grade Medium Density Fiberboard (MDF), manufactured with a formaldehyde-free binder and which is classified as to Surface Burning Characteristics in accordance with the Standard CAN/ULC-S102M to a Flame Spread of 25 or less, and a Smoke Development of 160 or less.

LIMITATIONS

Medite FR is not suitable for external or structural applications.

INSTALLATION & HANDLING

Standard MDF woodworking techniques apply. Consult "MDF From Start to Finish", Composite Panel Association, (301) 670-0604. www.pbmdf.com.

STORAGE: Medite FR should be stored indoors on a flat, level surface with adequate support to prevent sagging.

CONDITIONING: Changes in dimensions of wood and wood-based sheet products occur due to changes in relative humidity. For this reason, Medite FR panels should be conditioned to the final environment for two to three days before fastening and finishing.

FASTENING: Place parallel threaded screws, threaded to the head of the screw in predrilled pilot holes not less than 1 inch from the edge on the face, or 2 1/2 inches from the corners when used in the edge of the panel. Nails or staples may be used, provided that they are no less than 2 1/2 inches from the corners. Space fasteners at least 6 inches apart to reduce the risk of splitting.

PAINTING

When choosing a coating system, confirm with the paint manufacturer that it will not adversely affect the Class 1 flame spread classification of the Medite FR panel.

SierraPine

FOR MORE INFORMATION, WE WELCOME YOU TO CALL OR E-MAIL US.

1-800-676-3119

info@sierrapine.com

SALES OFFICE: ROSEVILLE, CALIFORNIA

www.sierrapine.com