

# medite<sup>®</sup> MDF & medite<sup>®</sup> 3D

Strength, consistency,  
*machinability*

innovation  
creativity  
technical expertise  
manufacturing excellence

## Environmental Stewardship

SierraPine continues our long-term commitment to the responsible use of renewable resources. Among the first in the industry to receive certification at all of our manufacturing facilities SierraPine has been awarded certification by the following independent third-parties for using 100% recovered and recycled wood fiber content in all of our composite wood panel products.

- Composite Panel Association's Environmentally Preferable Product (EPP) Grademark Certification Program
- Scientific Certification Systems (SCS)
- LEED Building Rating System by USGBC - Materials and Resources

## medite<sup>®</sup> MDF



Store front built with Medite MDF

### Features/Benefits

Because of its hard, smooth surface, Medite easily takes many finishes and accepts paint especially well

- Varnish, lacquer, UV-fills, laminates and foils
- Excellent machinability
- Clean, sharp edges for cutting & drilling applications

### Mill Capabilities

Thickness:  $\frac{5}{16}$ " -  $1\frac{1}{4}$ "

Panel Sizes: 4' x 8', 4' x 10', 5' x 8', 5' x 10'

### Medite Applications

Medite MDF, known for its strength and machinability is the better choice for fabrication and precision part applications.

- Furniture
- Cabinets
- Stereo Speakers
- Door parts
- Store fixtures
- Raised panel construction
- Toys, musical instruments

## medite<sup>®</sup> 3D



Medite 3D MDF moulding

### Features/Benefits

- Excellent machinability
- Finishing options include: paint and laminates.

### Mill Capabilities

Thickness:  $\frac{1}{2}$ " -  $1\frac{1}{4}$ "

Panel Sizes: 4' x 8', 4' x 10', 5' x 8', 5' x 10'

### Medite 3D Applications

Because of its strength and consistent core, Medite 3D is the superior choice for multi-level machining applications

- Moulding
- Raised panel doors
- Door & drawer fronts
- Display panels
- Furniture

## Handling & Installation

- Applications: Medite & Medite 3D are not suitable for use in external or structural applications or in areas where moisture is a concern.
- Storage: MDF should be stored indoors on a flat, level surface with adequate support to prevent sagging.
- Conditioning: MDF panels should be acclimated to the application's environment for 2-3 days before use.
- Panel Installations: Other sizes available, minimums may apply.

### Medite Technical Data:

Imperial		Property	Thickness
			5/16 – 1 1/4"
Density	lb/ft <sup>3</sup>		48
Internal Bond	lb/in <sup>2</sup>		115
Modulus of Rupture	lb/in <sup>2</sup>		5,200
Modulus of Elasticity	lb/in <sup>2</sup>		520,000
Hardness – Pounds, Janka modified			1,150
Screw Holding			Lbs required to pull a 1" no. 10 metal screw
Face			325
Edge			250
Thickness Tolerance	in		± 0.005
Metric		Property	Thickness
			7.9 – 31.8 mm
Density	kg/m <sup>3</sup>		769
Internal Bond	Newtons/mm <sup>2</sup>		.790
Modulus of Rupture	n/mm <sup>2</sup>		35.6
Modulus of Elasticity	n/mm <sup>2</sup>		3566
Hardness - Newtons, Janka modified			5111
Screw Holding			Newtons req'd to pull a 25x3 mm metal screw
Face			1444
Edge			1111
Thickness tolerance	mm		± 0.125
Other Properties		Property	Thickness
		Water Absorption – 24-hr soak test average	16-8%
		Thickness Swell – 24-hr soak test average	4-2.5%
		Moisture Content – oven dry avg by weight	5.0%
		Linear Expansion – 50 – 80% RH	0.24%

### Medite 3D Technical Data:

Imperial		Property	Thickness
			1/2 – 1 1/4"
Density	lb/ft <sup>3</sup>		48
Internal Bond	lb/in <sup>2</sup>		130
Modulus of Rupture	lb/in <sup>2</sup>		4,300
Modulus of Elasticity	lb/in <sup>2</sup>		430,000
Screw Holding			Lbs required to pull a 1" no. 10 metal screw
Face			350
Edge			300
Thickness Tolerance	in		± 0.005
Metric		Property	Thickness
			12.7 mm - 31.8 mm
Density	kg/m <sup>3</sup>		770
Internal Bond	Newtons/mm <sup>2</sup>		.896
Modulus of Rupture	n/mm <sup>2</sup>		29.5
Modulus of Elasticity	n/mm <sup>2</sup>		2949
Screw Holding			Newtons req'd to pull a 25x3 mm metal screw
Face			1556
Edge			1333
Thickness tolerance	mm		± 0.125
Other Properties		Property	Thickness
		Thickness Swell – 24-hr soak test average	8-4%
		Moisture Content – oven dry avg by weight	5.0%
		Linear Expansion – 50 – 80% RH	0.27%

Physical and mechanical properties represent average for 3/4" board when tested in accordance with ASTM D 1037a Part A.



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**Warning:** Medite & Medite 3D contain formaldehyde which may cause health problems, including eye and respiratory irritation and may aggravate respiratory conditions or allergies. Medite & Medite 3D should not be used in enclosed areas where formaldehyde could be a problem unless properly sealed. Information on effective sealing methods and materials is available from SierraPine.