



Exceptional Substrates for a Variety of Construction Needs

High-quality engineered board products deliver consistency in strength, thickness and surface smoothness for reliable performance without the shortcomings of wood. Designed to resist warping and cupping, industrial panels are suitable for applications ranging from furniture manufacturing to substrates for laminates. These industrial panels are manufactured to exacting standards to ensure performance in the most demanding applications.

Each of our distribution centers stocks a selection of quality industrial panels, including:

- Particleboard
- Medium-density fiberboard (MDF)
- Specialty composite boards

For assistance with products which may help you meet LEED requirements, refer to the chart on page three or contact your Hardwoods Incorporated sales representative.



Forest Stewardship Council
(FSC)-certified products
available upon request.

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www.uniboard.com/en



www.sierrapine.com

INDUSTRIAL PANELS

TECHNICAL REFERENCE

The distribution centers offer many different industrial panel products for a variety of uses and applications. Included in the industrial panel inventory are particleboard, medium-density fiberboard (MDF), and specialty composite boards.

Particleboard is the economical choice for manufacturing fixtures, furniture, countertops, and many other products. The stability, flatness and smoothness of particleboard make it an ideal substrate for plywood, melamine and high-pressure laminate. During the manufacturing process, additives are incorporated to provide greater dimensional stability, fire resistance, and/or to enhance other properties.

MDF is widely used in the manufacturing of case goods, cabinet doors, furniture, moulding and millwork. The dimensional stability, flatness and excellent machining qualities of MDF have contributed to its broad acceptance among fabricators. Additives and different manufacturing technologies have expanded applications for composite panels.

Industrial Particleboard Inventory

	24 x 145	36 x 145	49 x 97	49 x 145	61 x 97	61 x 121
1/2"			•			
5/8"			•			
3/4"	•	•	•	•	•	•
1"			•			
1 1/8"		•	•		•	



MEDIUM DENSITY FIBERBOARD (MDF), PREMIUM GRADE

Our distribution centers offer a broad selection of MDF panels. We offer five different composite panels from Sierra Pine, Ltd., Uniboard and other composite panel manufacturers. We also offer standard industrial grade MDF in many different sizes from various sources.

Uniboard Excel+ MDF

	4 x 8	5 x 8
3/4"	•	•

Uniboard Excel+ MDF is a premium quality, light-colored 100% softwood panel. It offers a uniform density profile that is ideal for surface and edge-machining applications and provides a stable core and superior surface for printing and laminating.

INDUSTRIAL GRADE MDF

We stock a selection of standard industrial grade MDF from a variety of sources. Stock sizes are indicated below.

MDF (Industrial Grade)

	4 x 8	4 x 10	5 x 8	5 x 10	5 x 12
1/4"	•	•	•		
3/8"	•		•	•	
1/2"	•	•	•	•	•
3/4"	•	•	•	•	•
7/8"			•		
1"	•				
1-1/8"	•				
2"			•		

ULTRALIGHT MDF

In addition to standard MDF, we stock ultralight fiberboard manufactured from 100% radiata pine with a 32-lb. density. This equates to a 30% lighter board than standard MDF, reducing freight costs, making handling easier, and reducing tool wear. It is the ideal substrate for store fixtures, furniture and all other applications where weight would be a concern.

MDF (Ultralight)

	4 x 8
1/2"	•
3/4"	•

SPECIALTY COMPOSITES

Encore™ FR Particleboard

Encore™ FR provides Class I fire protection in wall systems, store fixtures, furniture and case goods. Encore FR is an environmentally preferable Class I flame-retardant particleboard panel manufactured from recycled wood fiber. Additives are blended with the wood fiber to provide flame-retardant properties throughout the panel. This ensures the flame retardancy isn't compromised when the panel is machined or sanded, resulting in an extra level of protection compared to products made with surface flame retardant coatings. Encore FR is produced with no added urea formaldehyde and meets the most stringent emission standards in the world, including the Phase 2 requirements of the California Air Resources Board ATCM 93120. Encore FR is available with the option of FSC Chain of Custody certification and, as an added bonus, has enhanced moisture-resistant properties. This product is ideal for LEED® and other environmentally focused building projects requiring Class I certified materials.

	49 x 97	61 x 97	61 x 109
1/2"	•	•	•
3/4"	•	•	•

Encore contributes to the following LEED Credits – Materials & Resources (4, 5, 7) – Indoor Environmental Quality (4.4)

Arreis™ Sustainable Design Fiberboard

We carry the Arreis™ line of no-added formaldehyde, medium-density fiberboard from SierraPine. Arreis is engineered to meet the growing demand for sustainable products and has the same performance characteristics as standard MDF, yet is produced with a formaldehyde-free adhesive system and 100% post-industrial recycled wood fiber. FSC-certified product is available upon request.

Arreis contributes to the following LEED Credits – Materials & Resources (4.1, 4.2, 5.1, 5.2, 7) – Indoor Environmental Quality (4.4)

	49 x 97	61 x 97
1/4"	•	
1/2"	•	
3/4"	•	•
1"	•	



Medite® FR

Medite® FR is an MDF board developed specifically for use in situations where a Class I flame-retardant board is required. It is a sustainable Class I 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 I product and where certain indoor air quality requirements are specified. FSC-certified product is available upon request.

Medite FR is SCS-certified for having recycled or recovered wood fiber content.

Medite FR contributes to the following LEED Credits: – Materials & Resources (4.1, 4.2, 5.1, 5.2, 7)

49 x 97 Custom Sizes up to 5' x 18"*	
1/4"	•
3/8"	•
1/2"	•
5/8"	•
3/4"	•
1"	•
1-1/4"	•

*Minimum order applies.

Medite® II

Interior Grade MDF, No Added Formaldehyde

Medite® II is an interior-grade, engineered wood-based panel manufactured from softwood fibers combined with formaldehyde-free synthetic resin. It is recommended for use in areas where moisture is not a concern. Medite II retains the light tan color of the wood fiber used in its manufacture.

The smooth surface ensures the best possible application of modern laminates and liquid coatings. Its consistent core produces excellent precision routing and shaping results.

Medite II is the substrate of choice in applications where formaldehyde emissions are a concern. Unlike other low formaldehyde boards, such as low-emitting urea formaldehyde, phenol formaldehyde or melamine formaldehyde, Medite II is manufactured with absolutely no added formaldehyde in any form. FSC-certified product is available upon request.

Medite II contributes to the following LEED Credits: – Materials & Resources (4.1, 4.2, 5.1, 5.2, 7) – Indoor Environmental Quality (4.4)

49 x 97 Custom Sizes up to 5' x 18'*		
3/8"	•	•
1/2"	•	•
5/8"	•	•
3/4"		•
1"		•
1-1/4"		•

*Minimum order applies.

Medex®

Moisture-Resistant MDF, No Added Formaldehyde

Medex® is an engineered wood-based panel product manufactured from wood fibers combined with formaldehyde-free synthetic resins. Engineered for high interior moisture areas, it is well known for its smooth surface, ease of workmanship and ability to take a precise machined edge or panel route. Medex retains the color of the wood fiber used in manufacture.

The smooth surface ensures the finest application of modern laminates and liquid coatings. The consistent core produces excellent precision routing and shaping results.

Medex is SCS-certified for having recycled or recovered wood fiber content and containing no added formaldehyde.

Sanding thickness tolerances are accurate to within 0.005 inches.

Independent tests have shown Medex to have formaldehyde emissions below the ambient outdoor levels found in much of rural North America. They have become the material of choice in those areas where the presence of formaldehyde is a concern and moisture resistance is needed. FSC-certified product is available upon request.

Medex contributes to the following LEED Credits: – Materials & Resources (4.1, 4.2, 5.1, 5.2, 7) and Indoor Environmental Quality (4.4)

49 x 97 Custom Sizes up to 5' x 18'*		
3/8"	•	•
1/2"	•	•
5/8"		•
3/4"	•	•
1"	•	•
1-1/4"	•	•

*Minimum order applies.

Extira®



Extira® is a treated, wood-based, moisture-resistant composite panel designed for exterior use. It must be primed and painted before being exposed to exterior applications. Finishing should be done with coating materials recommended by the coating manufacturer for use on wood or wood composite substrates. Ninety-degree

edges should be eased to improve paint film coverage. Final qualification of coatings and end-use are the responsibility of the user.

- Alternative to wood in exterior paint-grade applications
- Treated with zinc borate for rot and termite resistance
- Phenolic-bonded for exterior durability and moisture resistance
- Essentially no formaldehyde emissions.
- 5-year limited warranty.
- 4' x 16' press

49 x 97		25 x 194	
1/2"	•		
3/4"	•		
1"	•		
1-1/4"	•	•	

