



When the earth demands affordable excellence

creativity

market expertise

manufacturing excellence

SDF
Sustainable
Design Fiberboard

Arreis™, a medium density fiberboard (MDF) panel manufactured from 100 percent recycled wood waste, meets the most stringent formaldehyde emission standards in the world. SierraPine's patent pending manufacturing process utilizes a formaldehyde-free adhesive system to produce Arreis™, the ideal SDF for all commercial applications.

Features/Benefits

- Panels available in 4' or 5' widths and lengths up to 18'
- Accepts all painted, laminated or printed decorative surfaces
- Excellent machinability allows moulding producers to create even the most intricate profiles
- Fastening: Readily accepts and holds staples, screws and other wood fastening hardware
- Customized performance available



LEED™ Credits Supported

Indoor Environmental Quality - 4.4

Material and Resources - 4.1, 4.2, 5.1, 5.2



Collaborative for High Performance Schools (ChiPs)

Meets Materials Specifications for VOC emissions section 01350

Technical Data (Typical data when 3/4" panel is tested to ASTM D 1037-96a Part A)

Property		Units
<i>Imperial Units</i>		
Density	48	lb/ft ³
Internal Bond	115	lb/in ²
Modulus of Rupture	5,200	lb/in ²
Modulus of Elasticity	520,000	lb/in ²
Modulus of Hardness	1,150	lbs, Janka ball
Screw Holding, Face	325	lbs req'd to pull 1" #10 sheet metal screw
Screw Holding, Edge	250	lbs req'd to pull 1" #10 sheet metal screw
<i>Metric Units</i>		
Density	769	kg/m ³
Internal Bond	.79	N/mm ²
Modulus of Rupture	35.8	N/mm ²
Modulus of Elasticity	3583	N/mm ²
Modulus of Hardness	522	kg, Janka ball
Screw Holding, Face	148	kgs req'd to pull 1" #10 sheet metal screw
Screw Holding, Edge	114	kgs req'd to pull 1" #10 sheet metal screw
<i>Other Data</i>		
Water Absorption	8	24-hour soak, Avg %
Thickness Swell	5	24-hour soak, Avg %
Linear Expansion	.30	% dimensional change in length & width due to humidity change
Moisture Content	4 - 6	Avg. % oven-dry basis
Thickness Tolerance	± .005" or ± .005"	Avg. from nominal or Deviation from avg.
Flame Spread Rating	U/L, Class C	

Applications

- LEED™ Projects
- Environmentally Preferred Specifications
- Cabinetry
- Furniture
- Moulding
- Millwork
- Casework
- Wall Panels
- Shelving
- Retail Fixtures
- Museum Displays

Commitment to Green

For nearly two decades, SierraPine has been providing products to those in search of sustainable and environmentally preferable building products. Arreis™ is a testament to our expertise in pushing the technology envelope for low emitting composite panels. It also underscores our commitment to environmental stewardship, whether it be in producing no-added formaldehyde SDF, maximizing energy efficiency in our plants, increased use of recycled post consumer wood waste or providing a safe place for our employees to work. Join the leader, call SierraPine today.



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