



Standard MDF

Technical Specifications

About Eureka MDF

As an innovative, inherently sustainable solution for both the workplace and the home, Eureka™ Sustainable High Performance MDF represents a groundbreaking leap forward in the MDF industry. Created by CalPlant, Eureka embodies the company's dedication to environmentally conscious practices by using rice straw, a wasted natural byproduct of the harvest, to create a high-performing wood alternative. Eureka boasts the same paintability, machinability and strength as traditional MDF—but with no added formaldehyde. Eureka MDF rice straw is sourced within an average 25-mile radius of the plant, ensuring this revolutionary product benefits its immediate community.

Applications

Eureka MDF was created for interior, non-structural applications only, such as:

- Furniture
- Cabinetry
- Doors
- Moulding
- Store fixtures

Average Expected Physical Properties ≥ 3/8"

	Imperial	Metric
Density (< 0.551")	44.0-52.0 lbs/ft ³	705-833 Kg/m ³
Density (> 0.551")	42.0-50 lbs/ft ³	673-800 Kg/m ³
Moisture Content	6-9%	6-9%
Thickness Tolerance	±0.005"	±0.125mm
Modulus Of Rupture	4,500 psi	31.0 N/mm ²
Modulus of Elasticity	450,000 psi	3,102.6 N/mm ²
Internal Bond	120 psi	0.8 N/mm ²
Linear Expansion Limit	≤0.33%	≤0.33%
Face Screw Hold > 0.375" (9.5mm)	270 lbs	1,201 N
Edge Screw Hold > 0.625" (16mm)	225 lbs	1,001 N
Length/Width Tolerance	±0.08"	±2.0mm
Thickness Swell < 0.591" (15mm)	0.065"	1.65mm
Thickness Swell > 0.591" (15mm)	11%	11%

Testing performed to ANSI A208.2-2016 in accordance with ASTM D1037-12.

EPA TSCA VI & CARB 2 Emission Limit -

> 8 mm thick: ≤ 0.11 ppm

≤ 8 mm thick: ≤ 0.13 ppm

Eureka MDF is manufactured using a formaldehyde-free resin system. There is no added formaldehyde (NAF).

The above specifications are targets for Standard Grade Eureka MDF. Actual properties may vary.

Packaging Specifications

Panel Widths: 48", 49", 60", 61"

Lengths: 73", 96", 97", 109", 121"

Thickness (in)	Thickness (mm)	Pcs
0.375 (3/8")	9.5	63
0.4375 (7/16")	11.1	72
0.5 (1/2")	12.7	48
0.5625 (9/16")	14.3	42
0.6250 (5/8")	15.9	44
0.6875 (11/16")	17.5	40
0.75 (3/4")	19.1	36
1.0 (1")	25.4	28

Industry-specific sizes available upon request.

Environmental Certifications, Standards & Labels

Commencing with startup and continuing over several months, CalPlant will pursue several certifications, material ingredient labels and third-party verification of our environmentally advanced Eureka MDF. CalPlant anticipates completion and achievement of the following in 2021:

- **Pre-consumer recycled content** certification
- Composite Panel Association's **EcoCertified Composite Sustainability Standard** (ECC)
- Health Product Declaration (HPD) through the **Health Product Declaration** Collaborative
- **Declare** label through the International Living Future Institute
- Life Cycle Assessment (LCA)
- Environmental Product Declaration (EPD)
- **Environmentally Preferable Product** (EPP) label

Storage & Handling

- Do not store or use outdoors.
- Store indoors in a well-ventilated, clean, dry area that is free of dust, dirt or contaminate particles.
- Store flat on stickers on a level, hard, dry surface.
- Maintain constant relative humidity and temperature.
- Before use, allow to stabilize to the same conditions expected after installation.
- Condition 48-72 hours prior to lamination.

For more information, see the Composite Panel Association's *Technical Bulletin: Storage & Handling of Particleboard & MDF*.

Contact Us

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