



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 | 1,223 N |
| Length/Width Tolerance | ±0.08" | ±2.0mm |
| Thickness Swell < 0.591" (15mm) | 0.065" | 1.65mm |
| Thickness Swell < 0.591" (15mm) | 11% | 11% |
| *EPA TSCA VI & CARB 2 Emission Limit, thicknesses > 0.315" | ≤0.04 ppm | ≤0.04 ppm |

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

*Manufactured using a urea formaldehyde-free resin system.

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 | 9.5 | 63 |
| 0.4375 | 11.1 | 54 |
| 0.5 | 12.7 | 48 |
| 0.5625 | 14.3 | 42 |
| 0.6250 | 15.9 | 44 |
| 0.6875 | 17.5 | 40 |
| 0.75 | 19.1 | 36 |
| 1.0 | 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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