The most technically diverse line of MDF products in North America. From moisture resistant to flame retardant to no-added formaldehyde, Roseburg has an MDF panel to suit your every need. Working on a LEED® Project? You’ll be pleased to know that all of Roseburg MDF may contribute to points for Materials & Resources - Recycled Content. In addition, we have a line of Sustainable Design Fiberboard products that contribute to Indoor Environmental Quality points due to our manufacturing process that uses a formaldehyde-free binder system.
PermaCore® is a sustainable medium density fiberboard (MDF) panel utilizing a formaldehyde-free adhesive system and pre-consumer recycled wood content. PermaCore® is engineered to withstand the rigors of powder coating and accommodate a new realm of creative design potential. This panel combines superior composite panel performance with the strength and durability needed for powder coating applications and the benefit of virtually no VOC emissions. Manufactured in Medford, OR.

### Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Imperial</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>50 lb/ft³</td>
<td>801 kg/m³</td>
</tr>
<tr>
<td>Internal Bond</td>
<td>200 lb/in²</td>
<td>1.38 N/mm²</td>
</tr>
<tr>
<td>Modulus of Rupture</td>
<td>5,300 lb/in²</td>
<td>36.50 N/mm²</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>530,000 lb/in²</td>
<td>3,650 N/mm²</td>
</tr>
<tr>
<td>Modulus of Hardness</td>
<td>1,050 lbs, Janka ball</td>
<td>4,670 N</td>
</tr>
<tr>
<td>Screw Holding, Face</td>
<td>340 lbs</td>
<td>1,510 N</td>
</tr>
<tr>
<td>Screw Holding, Edge</td>
<td>320 lbs</td>
<td>1,420 N</td>
</tr>
<tr>
<td>Thickness Tolerance</td>
<td>± 0.005 inch</td>
<td>±0.127 mm</td>
</tr>
<tr>
<td>Thickness Swell</td>
<td>3.5%</td>
<td></td>
</tr>
<tr>
<td>Linear Expansion</td>
<td>0.27%</td>
<td></td>
</tr>
<tr>
<td>Water Absorption</td>
<td>6.5%</td>
<td></td>
</tr>
<tr>
<td>Flame Spread Rating</td>
<td>Class 3 (C)</td>
<td></td>
</tr>
<tr>
<td>Moisture Content</td>
<td>4 - 6%</td>
<td></td>
</tr>
<tr>
<td>Formaldehyde Emissions</td>
<td>as low as 0.01 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Average physical properties for 3/4” panel, based on a 5 panel average, when tested in accordance with ASTM D1037. Emissions tested in accordance with ASTM E-1333. Specific design applications, and technical data are available upon request.

### Handling & Installation
- Store indoors on a flat, level surface with adequate support to prevent sagging
- Refer to Architectural Woodwork Standards (AWS) for fabrication and installation procedures.
- For best results, PermaCore® should be conditioned to the environment 48-72 hours prior to installation.

### How to Specify
Industrial Grade Medium Density Fiberboard (MDF), manufactured with a formaldehyde-free adhesive system which meets the physical properties of ANSI A208.2-2009, Grade 155.

### Limitations
PermaCore is not suitable for structural or exterior applications.

### Ideal Applications
- LEED® Projects
- Office Furniture
- Cabinetry
- School Furniture
- Moulding

### Mill Capabilities
- Panels available in 5’ widths and lengths up to 18’
- Thicknesses ranging from 5/8” - 1-1/8”
- Minimum order may be required for some sizes

### Features & Benefits
- Exceeds standard MDF physical properties
- Uniform density ideal for multi-level machining and powder coating
- FSC® certified panels available upon request
- PermaCore is produced with no-added formaldehyde (NAF) and meets the CARB ATCM 93120 Phase 2 emission requirements

### SCS Certification
- 92% Pre-consumer Recycled Content
- FSC® CO17580 The mark of responsible forestry (Available upon request)

### ECC Certification
- Specification CPA ECC 4-11
- CARB Third Party Certifier TPC-1

### LEED® 2009 Credits Supported
- Materials & Resources: 4, 5, 7
- Indoor Environmental Quality: 4.4

### LEED® v4 Credits Supported
- Indoor Environmental Quality - Low-Emitting Materials: Composite Wood Evaluation
- Materials & Resources - Building Product Disclosure and Optimization
- sourcing of Raw Materials
- Material Ingredients
- Environmental Product Declaration

### CHPS Compliant
Meets Materials Specifications for VOC emissions section 01350

### Contact Information
- KAPOLEI, OAHU HI
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