Composite Panel

Apex MR50, an exceptionally strong composite panel, exceeds the minimum performance requirements for moisture resistance set forth in ANSI A 208.1-16 subsection 3.8 (MR 50). These panels have been engineered for superior strength and machinability. Apex MR 50 has been third party tested per ASTM D 1037-12 subsection 4.3.4 for advanced bond integrity and its ability to withstand severe exposure conditions. Every production run of Apex MR 50 is tested in-house for thickness swell. If you are looking for a composite panel that reaches the peak and summits above its competition, Apex MR50 is the panel for you.

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>50 lb/ft³</td>
</tr>
<tr>
<td>Internal Bond</td>
<td>200 lb/in²</td>
</tr>
<tr>
<td>Modulus of Rupture</td>
<td>4,000 lb/in²</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>575,000 lb/in²</td>
</tr>
<tr>
<td>Screw Holding, Face</td>
<td>425 lbs</td>
</tr>
<tr>
<td>Screw Holding, Edge</td>
<td>300 lbs</td>
</tr>
<tr>
<td>Thickness Tolerance</td>
<td>± 0.005&quot;</td>
</tr>
<tr>
<td>Thickness Swell</td>
<td>&lt; 4.5%</td>
</tr>
<tr>
<td>Length/Width Tolerance</td>
<td>± 1/16&quot;</td>
</tr>
<tr>
<td>Squareness Tolerance</td>
<td>± 1/8&quot;</td>
</tr>
<tr>
<td>Flame Spread Rating</td>
<td>Class 3 (C)</td>
</tr>
</tbody>
</table>

Average physical properties for 3/4" panel, based on a 6 panel average, when tested in accordance with ASTM D1037. Specific design applications and technical data are available upon request.
Apex MR50

Features & Benefits
- Awarded CARB NAF Exemption due to synthetic resin system. Meets CARB ATCM 93120 Phase 2 emission requirements.
- Formaldehyde-free (NAF) resin system
- Meets ANSI A208.1-2016 moisture resistant specifications for MR50
- Remarkable strength and machinability
- Formulated specifically for your most demanding applications
- Smooth uniform faces and core
- FSC® Mix Credit certified panels available upon request

Mill Capabilities
- 4’ and 5’ widths
- Lengths up to 24’
- Custom sizes available upon request
- Cut-to-size and special packaging available
- Minimums may apply

Handling & Storage
- Store indoors on a flat, level surface with adequate support to prevent sagging
- Refer to Architectural Woodworking Standards (AWS) for fabricating and installation processes
- For best results, panels should be conditioned to the environment for 48-72 hours prior to fabricating

Ideal Applications
- LEED® projects
- Schools
- Hospitals
- Hospitality
- Airports
- Cabinetry
- Laminating substrate
- Furniture
- Casework
- Fixtures

Timber Products Company is one of the nation’s largest and most respected manufacturers of a comprehensive range of wood products.

As an independently owned, fully integrated company with dedicated manufacturing facilities in both the western and eastern United States, we provide immediate access to a tremendous selection of products and services. We’ve implemented new technologies to make our operations more efficient and our products more cost-effective. We can respond to your needs faster, with greater flexibility and with an absolute assurance of quality.

That’s a tremendous resource for any business.