Fire & Moisture Resistant Plasterboard
Technical Data Sheet

Product Description
Mada Plasterboards are produced from high purity natural gypsum core being sheeted in a closely adhering best selected paper liners.
Mada Fire & Moisture Resistant Plasterboard is lightweight for use in standard internal wall and ceiling applications where Fire & Moisture Resistant properties is required.

Field of Application
Mada Fire & Moisture Resistant Plasterboard is an imperative component for a standard light weight drywall system and used in Residential Buildings, Commercial Buildings, Hospitals, Airports, Educational Institutions and other such applications.

Manufacturing Standards
Mada Plasterboards are produced to American ASTM C1396 & European EN-520 standards.

Advantages
- Light Weight Construction
- Easy & Fast Installation
- Good Fire Protection
- Good Sound Insulation
- Good Thermal Insulation
- Environment Friendly
- Suitable for wide range of decorative finishes

Product Characteristics
Length: Standard Length is 2400mm & 3000mm. Special length varying between 1800mm to 4500mm can be produced on demand.
Width: Standard width is 1200 mm. Special width of 600, 900, 1219 and 1220 mm can be produced on demand.
Thickness: Most types of board are produced in 9.5, 12.5, 15.0, 16.0 & 18.0mm. Special thickness can be produced on demand.
Edges: Tapered Edge, Square Edge, Beveled Edge & Round Edge.
Color: Face color is Pink & Back color is Green.

Material Storage & Handling Conditions
- Mada Plasterboards to be stored on pallets or on a pack of boards and supported evenly on a firm, dry, level and structurally sound floor.
- Load upto 4 pallets of Plasterboards on each other.
- Do not store any other material on top of Plasterboards.
- Protect Plasterboards from direct rain, sunlight or other extensive weather conditions.
- Mada Plasterboards to be stored in dry area inside the building which is ready to receive drywall fixings.
- Cover it with Plastic sheet or Tarpaulin.
- Use fork lift for the horizontal transportation and designed hoists for vertical transportation of pallets.
- Manually handle loose Plasterboards.

MGC/TD/FMR/13/Rev.1

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**Fire & Moisture Resistant Plasterboard**

**Technical Data Sheet**

**Material Packing Details**

<table>
<thead>
<tr>
<th>Board Thickness (mm)</th>
<th>Boards / Pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5</td>
<td>90</td>
</tr>
<tr>
<td>12.5</td>
<td>66</td>
</tr>
<tr>
<td>15.0</td>
<td>54</td>
</tr>
<tr>
<td>16.0</td>
<td>54</td>
</tr>
<tr>
<td>18.0</td>
<td>54</td>
</tr>
</tbody>
</table>

**Technical Specification**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>9.5mm</th>
<th>12.5mm*</th>
<th>15mm*</th>
<th>16mm*</th>
<th>18mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg/m²)</td>
<td>7.50</td>
<td>9.20</td>
<td>11.20</td>
<td>11.60</td>
<td>12.30</td>
</tr>
<tr>
<td>Min Board Density (kg/m³)</td>
<td>758</td>
<td>720</td>
<td>733</td>
<td>706</td>
<td>667</td>
</tr>
<tr>
<td>Flame Spread Index</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Smoke Developed Index</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Asbestos (% by weight)</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Flexural Strength (N) (Perpendicular)</td>
<td>&gt;400</td>
<td>&gt;530</td>
<td>&gt;650</td>
<td>&gt;740</td>
<td>&gt;800</td>
</tr>
<tr>
<td>Flexural Strength (N) (Parallel)</td>
<td>&gt;160</td>
<td>&gt;230</td>
<td>&gt;260</td>
<td>&gt;320</td>
<td>&gt;350</td>
</tr>
<tr>
<td>Nail Pull Resistance (N)</td>
<td>&gt;260</td>
<td>&gt;360</td>
<td>&gt;390</td>
<td>&gt;420</td>
<td>&gt;450</td>
</tr>
</tbody>
</table>

*Tested as per ASTM C473-06a / Clause 11, 12 & 13
Data above are as per tested sample. Actual value may vary.

Mada Gypsum Company reserves the right to update above technical data on its own discretion. For all official use of this data sheet it is required to have it stamped and signed by authorized Mada Gypsum representative.

Part of Mada Drywall System: System performance warranty only by using the proposed Mada system components

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**Yanbu - Factory**
P.O.Box 31542, Yanbu Al Sinaiyah 51000
Kingdom of Saudi Arabia
Tel.: +966 1 4325 3253
Fax: +966 1 4325 0420

**Jeddah**
Tel.: +966 1 2659 7906
Fax: +966 1 2659 7917

**Khobar**
Tel.: +966 1 38874430
Fax: +966 1 38874430

**U.A.E**
Mob: +971 50 3006813

www.madagypsum.com