ALAMDAVR POLYISOYCARANATE BOARDS
FOR ROOF AND WALL

Alamdar Vapotherm Ltd., started production of Rigid Polyisocyanurate Thermal Insulation Panel Boards in 1990 at its factory oriented in Riyadh, with annual capacity of 1,400,000 square meters of panel boards for one shift.

Polyisocyanurate having the lowest Thermal Conductivity of all the known building Thermal Insulation Materials, is the most cost effective in climatic conditions of Saudi Arabia.

Alamdar Vapotherm Panel Boards are available with different facingsː like
a) Polyethylene coated Glass Fiber tissue.
  d) Asphalt Felt.
b) Kraft Paper - Plain or Polyethylene coated.
c) Aluminium Foil.
  e) Bluminous Paper.
f) Others on Request.

The Panel Boards are manufactured in any densities in the range of 28 kg./M², of which the following three are the most commonː
da) 28 - 36 kg. /M² density usually for Wall insulation.
  e) 45 - 50 kg. /M² density usually for Roof insulation.
  f) 32 - 33 kg. /M² density usually for Floor insulation.

The wide array of choices in facings and densities, make Alamdar Vapotherm Polyisocyanurate Panel Boards, the most versatile in application in various situations, prompted by design considerations - such as both Conventional and Inverted Roofing Systems, External and Internal Wall Insulation, etc.

The Panel Boards are supplied in thicknesses ranging from 20 mm to 120 mm, with widths being 610 mm and in lengths from 900 mm to 4000 mm.

For the installation contractor Alamdar Vapotherm also supplies Cant Series for use at the joining of horizontal roof with vertical parapets or upstands to provide slope for the waterproofing membrane.

FIXING:
(i) Hot Bitumen
(ii) Mechanical : By Self Trapping Screw.

TEST SATISFY:
ASTM (Details can be given for each Test).
HH - I - 330 A
HH - I - 1972
DIN, BS, SASO

This Data may be changed improved or modified by ALAMDAVR VAPOTHERM, in accordance with the Client's requirements, availability of raw material, without advance notice.

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>BOARDS FOR WALL</th>
<th>BOARDS FOR ROOF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>28 - 36 Kg / M²</td>
<td>32 - 35 Kg / M²</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>1.2 - 1.6 Kg / M²</td>
<td>1.8 - 2.1 Kg / M²</td>
</tr>
<tr>
<td>K - Value</td>
<td>0.022 W/M°C AT 30°C</td>
<td>0.022 W/M°C AT 50°C</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>1.6 % by volume</td>
<td>&gt;1.6 % by Volume</td>
</tr>
<tr>
<td>Rate of Burning</td>
<td>ASTM E - 84 (Within specified Limit)</td>
<td>ASTM E - 84 (Within specified Limit)</td>
</tr>
<tr>
<td>Closed Cell Content</td>
<td>&gt; 95%</td>
<td>95%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>-25°C</td>
<td>+0.5% Volume change</td>
</tr>
<tr>
<td></td>
<td>@ 100°C</td>
<td>@ 75°C</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>140°F for long period</td>
<td>140°F for short period</td>
</tr>
<tr>
<td>Water Permeability</td>
<td>1.5 perm inch</td>
<td>0.5 - 1.5 perm inch</td>
</tr>
<tr>
<td>BIOLOGICAL CHEMICAL RESISTANCE</td>
<td>Unaffected by moulds Fungus and Vermion, it is resistant to most of Oils, Greases, Solvents, Dilute and Alkaline.</td>
<td></td>
</tr>
</tbody>
</table>

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