

## ALAMDAR POLYURETHANE (PUR) BOARDS FOR WALL, ROOF & FLOOR

**Alamdar Vapotherm Co.** started production of Rigid **Polyurethane** Thermal Insulation Panel Boards in 1976 at its factory oriented in Riyadh, with annual capacity of 1,400,000 square meters of panel boards for one shift.

**Polyurethane** 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 facings: like

- |  |  |
|--|--|
| a) Polyethylene coated Glass Fiber tissue.     | d) Asphalt Felt.                             |
| b) Kraft Paper - Plain or Polyethylene coated. | e) Reinforce Aluminum Foil with kraft paper. |
| c) Bituminous Paper.                           | f) Without Facing.                           |

The Panel Boards are manufactured in any densities in the range of 32 kg. / M<sup>3</sup>, of which the following three are the most common:

- 32 - 35 kg / M<sup>3</sup> density usually for Wall insulation.
- 35 - 40 kg / M<sup>3</sup> density usually for Roof insulation.
- 50 - 60 kg / M<sup>3</sup> density usually for Floor insulation.

The wide array of choices in facings and densities, make **Alamdar Vapotherm Polyurethane** 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, width being 610 mm and in lengths from 900 mm to 4000 mm. (Tolerances  $\pm$  3 mm)

*For the installing contractor Alamdar Vapotherm also supplies Can't Strips for use at the joining of horizontal roof with vertical parapets or upstands to provide slope for the waterproofing membrane.*

### **FIXING:**

- Hot Bitumen
- Mechanical: By Self Trapping Screw.

### **TEST SATISFY:**

Comply ASTM C- 1289 & ASTM C 591  
HH - I - 530 A  
HH - I - 1972  
DIN, BS, SASO .....

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

***TYPICAL PROPERTIES: COMPLY WITH ASTM C-1289 & ASTM C-591  
FOR ALL THECKNESSES AND TYPES OF FACING***

<i>Dimensions</i>	<i>TEST METHOD</i>	<i>BOARDS FOR WALL, ROOF &amp; FLOOR AND (BLOCK FOAM)</i>		
<b>THECKNESS</b>	<b>ASTM</b>	<b>20 MM ----- UP TO 120 MM</b>		
<b>Density</b>	<b>ASTM D-1622</b>	<b>32 - 35 Kg / M<sup>3</sup></b>	<b>45 - 50 Kg / M<sup>3</sup></b>	<b>60 - 70 Kg / M<sup>3</sup></b>
<b>Compressive Strength</b>	<b>ASTM D- 1621</b>	<b>1.8 – 2.1 Kg / M<sup>2</sup> 180 – 210 KPA</b>	<b>3.1 - 4.0 Kg / CM<sup>2</sup> 310 – 400 KPA</b>	<b>3.1 – 4.5 Kg / CM<sup>2</sup> 310 – 450 KPA</b>
<b>Flexural Strength</b>	<b>ASTM C 203</b>	<b>275 -285 KPA</b>	<b>290 - 300 KPA</b>	<b>300 - 400 KPA</b>
<b>K – Value</b>	<b>ASTM C- 177 ASTM C- 518</b>	<b>0.022 W / M K<sup>o</sup> AT 24°C</b>	<b>0.022 W /M K<sup>o</sup> AT 24°C</b>	<b>0.025 W / M K<sup>o</sup> AT 24°C</b>
<b>Water Absorption</b>	<b>ASTM D -2842 ASTM C209</b>	<b>Max1.0 % by volume</b>	<b>Max1.0 % by volume</b>	<b>Max1.0 % by volume</b>
<b>Rate of Burning</b>	<b>ASTM E -84 ASTM D -1692</b>	<b>(Within Specified Limit)</b>	<b>(Within Specified Limit)</b>	<b>(Within Specified Limit)</b>
<b>Closed Cell Content</b>	<b>ASTM D 2856</b>	<b>95%</b>	<b>95%</b>	<b>95%</b>
<b>Dimensional Stability</b>	<b>ASTM D 2126</b>	<b>@ - 25C &lt; 0.1% Volume change @ + 100 °C &lt; 0.5% Volume change</b>	<b>@ - 25 °C &lt; 0.1% Volume change @ + 100 °C &lt; 0.5% Volume change</b>	<b>@ - 25 °C &lt; 0.1% Volume change @ + 100 °C &lt; 0.5% Volume change</b>
<b>Water Permeability</b>	<b>ASTM C- 355 ASTM E- 96</b>	<b>0.5 - 1.5 perm inch</b>	<b>0.5 - 1.5 perm inch</b>	<b>0.5 - 1.5 perm inch</b>
<b>Working Temperature</b>		<b>140°C for long period 220°C for short period</b>	<b>140°C for long period 220°C for short period</b>	<b>140°C for long period 220°C for short period</b>
<b>VOC</b>				<b>PASS</b>
<b>BIOLOGICAL CHEMICAL RESISTANCE</b>	<b>Unaffected by moulds Fungus and Vermin, it is resistance to most of Oils, Greases, Solvents, Dilute and Alkaline.</b>			

H/O

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