

## Polyurethane ROOF AND WALL INSULATION

### GENERAL DESCRIPTION

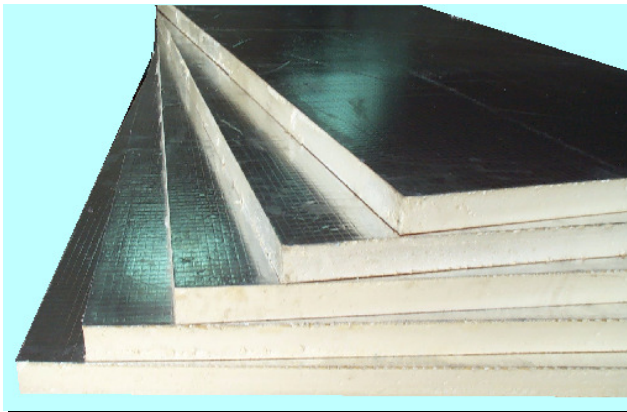
Roof boards consist of a rigid closed cell Polyurethane(PUR) or Polyisocyanurate(PIR) foam.

Roof boards are manufactured in various thicknesses from 20 – 150 mm and in densities ranging from 35Kg/m<sup>3</sup> to 80Kg/m<sup>3</sup>-Densities.

Roof boards will meet the requirement of most international insulation specifications:

These include:

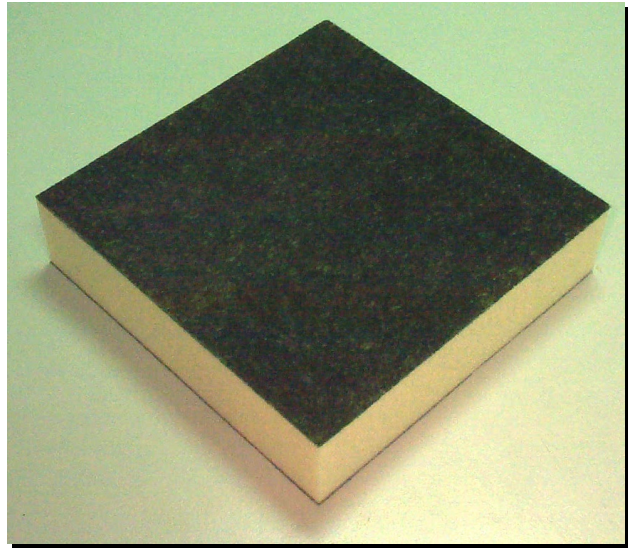
ASTM-C-1013, ASTM-C-591, HH-1-1972, ASTM-D-1692, ASTM-E-84, DIN-4102, BS 476



### AVAILABILITY

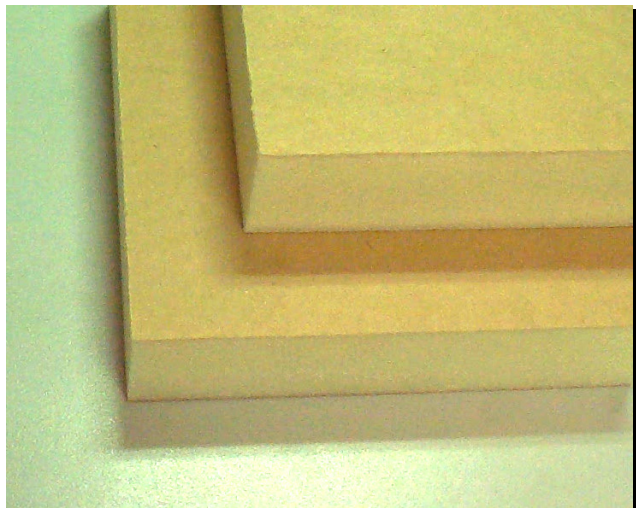
**Roof boards are available with following finishes: -**

- ❖ Both sides with brown Kraft paper finished.
- ❖ One side with Aluminum foil and other side brown Kraft paper finished.
- ❖ Both sides with Fiberglass tissue finished.



### SIZES

2000 mm x 1000 mm or 1000 mm x 1000 mm. Other sizes are available on request. Roof boards are normally produced with straight edges, rebated edges are available at extra cost.



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### ***TECHNICAL SPECIFICATION***

Properties	Test Method	Value	Value	Value	Value
Core Density (Kg/m <sup>3</sup> )	<b>ASTM D-1622</b>	<b>35</b>	<b>40</b>	<b>50</b>	<b>65</b>
Thermal Conductivity@10 <sup>0</sup> C(W/m <sup>0</sup> C)	<b>ASTM C-518/91</b>	<b>0.022</b>	<b>0.022</b>	<b>0.023</b>	<b>0.024</b>
Compressive Strength (KN/m <sup>2</sup> )	<b>ASTM D-1621</b>				
<b>Parallel to rise</b>		<b>190</b>	<b>300</b>	<b>350</b>	<b>490</b>
<b>Perpendicular to rise</b>		<b>150</b>	<b>240</b>	<b>290</b>	<b>450</b>
Closed cell content (apparent vol,%)	<b>ASTM D-2856</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>96</b>
Water Vapor Transmission(perm-inch)	<b>ASTM C-518/91</b>	<b>1.5</b>	<b>1.5</b>	<b>0.5</b>	<b>0.4</b>
<b>Water absorption % w/v</b>	<b>ASTM D-2842</b>	<b>2.25</b>	<b>2</b>	<b>1.5</b>	<b>1.3</b>
Dimentional Stability (% linear Change)	<b>ASTM D-2126</b>				
<b>7 Days @ +70 °C</b>		<b>2.6</b>	<b>2</b>	<b>1.5</b>	<b>1</b>
<b>7 Days @ 158 °C</b>		<b>2.6</b>	<b>2</b>	<b>1.5</b>	<b>1</b>
Upper Temperature Limit °C		<b>110</b>	<b>110</b>	<b>140</b>	<b>140</b>
Linear Coefficient of Expansion per °C	<b>BS 4370</b>	<b>7 x 10<sup>-5</sup></b>	<b>7 x 10<sup>-5</sup></b>		
Fire resistance (small scale test)	<b>BS 4102</b>	<b>B2/B3</b>	<b>B2</b>	<b>B2</b>	<b>B2</b>
Average Time & Extent of Burning(mm)	<b>ASTM D 635:1991</b>	<b>&lt; 5</b>	<b>&lt; 5</b>	<b>&lt; 5</b>	<b>7</b>