

BUILDTHENE RB

Polyurethane foam based rigid boards

DESCRIPTION : BUILDTHENE RB is a modified polyol based isocyanate cured polyurethane rigid boards. The cells have interconnecting walls of consistent thickness. The uniform thickness gives better dimensional stability with higher compressive strength.

USES : BUILDTHENE RB is an excellent thermal insulation material for over deck insulation with very low thermal conductivity.

FEATURES

- ❖ High dimensional stability
- ❖ Excellent thermal efficiency
- ❖ Suits variety of application
- ❖ User friendly
- ❖ Eco friendly
- ❖ Ideal for extreme conditions

AREA OF APPLICATION

- ❖ Cold Storage / Freezing Rooms
- ❖ Industrial Buildings / Sheds
- ❖ Hotels
- ❖ Overdeck / Underdeck Insulation
- ❖ Walk in Cold Rooms

ADVANTAGES

- ❖ Excellent resistance to moisture
- ❖ Added efficiency and comfort
- ❖ With very low thermal conductivity, minimizes the rise of temp.
- ❖ Very low water absorption

INSTALLATION

BUILDTHENE RB can be fixed to a wide range of substrate in single or multiple layers to achieve the required U value.

Insulation boards are to be laid tightly / butt jointed or shiplapped in single or multiple layers depending on the thickness required to meet U values specified.

The reinforced concrete finished slab can be placed on top of the insulation boards.

TECHNICAL DATA

SR. NO.	PROPERTIES	VALUES
1.	Density (kg/m ³)	35 - 40
2.	Compressive Strength Kg/cm ² at 10% Deformation	2.1
3.	Tensile strength kg/cm ²	3.7
4.	Bending strength kg/cm ²	4.0
5.	Adhesion Strength kg/cm ²	2.9
6.	Closed Cell Cotent%	90 - 95
7.	Temperature Range	-60°C ± 110°C
8.	Thermal Conductivity at 0°C	0.018 k Cal/mhr ² C
9.	Vapour Permeability	0.08/0.12gms/hr/m ²
10.	Dimensional Stability	
	-25° C %	0.1
	+38° C & 90 % RH	0.1
	+100° C %	0.4
11.	Water Absorption	0.2% volume at 1000%RH
12.	Fire Property Extent to burn As per Bs : 4735	Max 100mm.
13.	Type	Self Extinguishing

SIZE : Available in 25, 30 40 & 50 mm thickness with 1.0 x 0.5m size board