# **ADVEFOAM (32)**

## Extruded Polystyrene Thermal Insulation Boards.

#### **DESCRIPTION:**

ADVEFOAM (32) are thermal insulation boards produced from high quality polystyrene foam by extrusion method and available in different thicknesses and edge shapes.

#### **APPLICATIONS:**

- 1 Thermal insulation layers for walls and roofs of buildings.
- 2 Thermal insulation layers for floors, walls and roofs of cold stores.
- 3 Upgrading of old roofs.

4 - Especially suitable for protected roofing concept, in which the thermal insulation layer is laid over the waterproofing layer, due to its non- absorbing property.

#### **ADVANTAGES:**

- 1 Permanent and high thermal insulation property.
- 2 High compressive strength compared to similar materials.
- 3 Does not absorb water or humidity, due to its closed cell structure.
- 4 High resistance to chemical salts.
- 5 Longer service time compared to similar materials.
- 6 High dimensional stability under variable weathering conditions.
- 7 Easy to cut with wood sawing tools.
- 8 Low flammability properties, it contains flame retardant additives and itself extinguishes when the source of fire is removed.
- 9 -Very safe to use and is not harmful to health.
- 10 -Economical, the thermal insulation efficiency of 12.5cm. celton can be obtained by 2.5cm. ADVEFOAM.

#### **METHOD OF LAYING:**

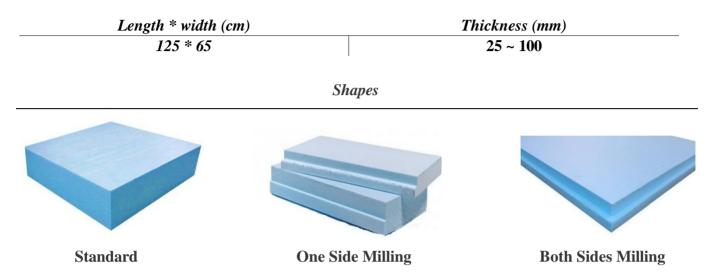
- 1 ADVEFOAM (32) boards are laid using cementitious mortar containing 1m<sup>3</sup> sand, 300kg. cement, and mixture of water +addibond, or using CEROPLAST (bitumen latex emulsion) or by using any suitable adhesive not containing solvents.
- 2 The bonding layer is applied either on spots or on the complete surface area.



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#### **STANDARD DIMENSIONS:**



### TECHNICAL SPECIFICATION: (at 25° C )

PROPERTY	STANDARD SPECIFICATIONS	VALUE
Density	DIN 53420	$32 - 35 \text{ Kg/m}^3$
Thermal Conductivity	EN 13501-1	0.028 - 0.033 W/mK
Compressive Stress at 10% Deflection	DIN 53421	2.75- 3 Kg /cm <sup>2</sup>
	ASTM C - 165	275- 300 KPa
Water Absorption % by Volume	DIN 53428	Less Than 1.5%
Linear Coefficient of Thermal		
Expansion	ASTM D - 696	7X10 <sup>-5</sup>
Flammability	EN 13501-1 / EN ISO 11925-2	Class (E)



