

## ADVEFOAM (32)

Extruded Polystyrene Thermal Insulation Boards .

### DESCRIPTION:

ADVEFOAM are thermal insulation boards produced from high quality extruded polystyrene foam and available in different thicknesses and edge shapes .

### FIELDS OF USE:

- 1 - Thermal insulation layers for wals 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 .

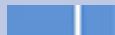

### ADVANTAGES:

- 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 chemicals .
- 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 10cm. celton can be obtained by 2cm. ADVEFOAM .

### METHOD OF LAYING:

- 1 - ADVEFOAM boards are laid using cementitious mortar containing 1m<sup>3</sup> sand, 300kg. cement, and mixture of water +addipond with ratio 4:1 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 .

### STANDARD DIMENSIONS :

Dimensions (cm)	Thickness (mm)	Model aspects
121 * 61 ±2mm	25 ±2	
	30 ±2	
	40 ±2	
	50 ±2	
121 * 61 ±2mm	30 ±2	
	40 ±2	
	50 ±2	
* Bigger lengths than 121 are available (on request) .		
* Colors : Blue - Gray (other colors available if request)		

## TECHNICAL DATA (at 25 °C) :

## ADVEFOAM 32

PROPERTY	STANDARD SPECIFICATIONS	UNIT	VALUE
Average Density	ASTM D - 1622 - DIN 53420 & ISO 845	Kg/m <sup>3</sup>	30 - 32
Thermal Conductivity	DIN 52612	W/mK	0.00288 ± 0.002
(Thermal conductivity )5 years aged	ASTM C - 518	W/m.°C	0.032 ± 0.002
Compressive stress at 10% deflection	DIN 53421	Kg /cm <sup>2</sup>	2.5 - 3
	ASTM C - 165	KPa	250 - 300
Water vapour diffusion resistance factor $\mu$	DIN 52615		160 ±5%
Water absorption % by volume	ASTM 578	%by vol	0.3
Water absorption by capillarity		%	NIL
Liner coefficient of thermal expansion and contraction (heat soaking condition)	ASTM D - 696		(6.98)X10 <sup>-5</sup> K <sup>-1</sup>
Flammability	DIN 4102	Building material class	B1/B2 (self - extinguishing)
	BS 476 Part 5		Class (P) not easily ignitable