

## ADVEFOAM

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 . ADVEFOAM is CFC, HCFC and HBCD free .

### 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	25	
	30	
	40	
	50	
121 * 61	30	
	40	
	50	

\* Bigger lengths than 121 are available (on request) .  
\* Colors : Blue - Gray (other colors available if request)

## TECHNICAL DATA (at 25 °C) :

PROPERTY	STANDARD SPECIFICATIONS	UNIT	VALUE
Average Density	ASTM D - 1622 - DIN 53420 & ISO 845	Kg/m <sup>3</sup>	34 - 36
Thermal Conductivity	ASTM C - 518	W/mK	0.028 ± 0.002
(Thermal conductivity )5 years aged	DIN 52612	W/m.°C	0.034 ± 0.002
Compressive stress at 10% deflection	ASTM C - 165	Kg /cm <sup>2</sup>	3.0 ± 0.2
	DIN 53421	KPa	300 ± 2
Compressive creep ( design load ) max 2% Deflection after 50 year	Bs-EN 1606	KPa	135 ± 5
Water vapour diffusion resistance factor (According to thickness)	DIN 52615	μ	110-225
Water absorption % by volume after 96 hours	DIN 53428 ASTM D-2842&ISO2896	%by vol	0.2 ± 0.02
Water absorption by capillarity		%	NIL
Liner coefficient of thermal expansion and contraction (heat soaking condition)	ASTM D - 696		$(6.98) \times 10^{-5} \text{ K}^{-1} \pm 15\%$
Ignitability	EN 13501-1 , EN Iso 11925-2	Building material class	E
	DIN 4102		B1 / B2
	BS 476-5		P