ADVEFOAM (40)

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^3 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	
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* Bigger lengths than 121 are available (on request) .
* Colors : Blue - Gray (other colors available if request)

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TECHNICAL DATA (at 25 °C) : ADVEFOAM 40

PROPERTY	STANDARD SPECIFICATIONS	UNIT	VALUE
Average Density	ASTM D - 1622 - DIN 53420 & ISO 845	Kg/m^3	38 - 40
Thermal Conductivity	DIN 52612	W/mK	0.0288 ± 0.002
(Thermal conductivity)5 years aged	ASTM C - 518	W/m.°C	0.032
Compressive stress at 10% deflection	ASTM C - 165 DIN 53421	Kg/cm^2 KPa	5 500
Compressive creep (design load) max 2% Deflection after 50 year	Bs-EN 1606	KPa	180
Water vapour diffusion re-sistance factor μ	DIN 52615		160 ± 5%
Water absorption % by volume	ASTM C 578	%by vol	0.3
Water absorption by capillarity		%	NIL
Liner coefficient of thermal expansion and contraction (heat soaking condition)	ASTM D - 696		$(6.98)X10^{-5}\ K^{-1}$
Flammability	DIN 4102	Building material class	B1/B2 (self distinguishing)
	BS 476 Part 5		Class (P) not easily ignitable