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^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	
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)

Chemicals for Modern Building
Head Office:319 El- Haram St., Giza.
Tel: +(202) 35853917 - 35854084 - 35854118 Fax: +(202) 35859858

TECHNICAL DATA (at 25 °C) : ADVEVOAM

PROPERTY	STANDARD SPECIFICATIONS	UNIT	VALUE
Average Density	ASTM D - 1622 - DIN 53420 & ISO 845	Kg/m^3	34 - 36
Thermal Conductivity	ASTM C - 518	W/mK	0.0288 ± 0.002
(Thermal conductivity)5 years aged	DIN 52612	W/m.°C	0.032 ± 0.002
Compressive stress at 10% deflection	ASTM C - 165	Kg/cm^2	3.0 ± 0.25
	DIN 53421	KPa	300 ± 25
Compressive creep (design load) max 2% Deflection after 50 year	Bs-EN 1606	KPa	135 ± 5
Water vapour diffusion resistance 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		$(6.98)X10^{-5} K^{-1}$ ± 15%
Ignitability	EN 13501-1 , EN Iso 11925-2	Building material class	E
	DIN 4102		B1 / B2
	BS 476-5		P