

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 .

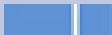

ADVANTAGES:

- 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 1m³ 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) :

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 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 ± 15% |
| Ignitability | EN 13501-1 , EN Iso 11925-2 | Building material class | E |
| | DIN 4102 | | B1 / B2 |
| | BS 476-5 | | P |