HYDROFOAM HD

EXTRUDED POLYSTYRENE HEAT INSULATION FOAM BOARD

DESCRIPTION

HYDROFOAM HD is an extruded polystyrene panel produced from a continuous and fully automated extrusion process in accordance with international specifications and standard. It does not use hydrochlorofluorocarbon (HCFC), which is known to be damaging to the ozone layer during its production.

ADVANTAGES

HYDROFOAM HD is a closed-cell foam with homogeneous structure with a uniform density distribution.
Special properties are as follow:

- Excellent compressive strength
- Long-term insulation efficiency and effectiveness
- Good dimensional stability
- Low moisture absorption
- Aging resistance
- Resistance to rotting
- Immunity against insects, pests and rodent attacks
- Does not support the growth of micro-organisms
- High durability

APPLICATIONS

ROOF

HYDROFOAM HD insulates both the waterproofing membrane and the R.C. slab from extreme thermal stress. It also delays aging effect on waterproofing membrane.

WALL

HYDROFOAM HD offers excellent energy savings in cavity wall insulation for air-conditioned building, cold rooms or cold storage areas. It also serves as a barrier to ingress of rainwater or vapor transmission.
However, vapor barrier is recommended where there is extreme differential temperature between the interior and exterior of the wall.

TYPE
HEAT INSULATION

ADVANTAGES
HIGH DENSITY
HIGH THERMAL CONDUCTIVITY
HIGH TENSILE

COMPONENT
1
PART

HYDROFOAM HD

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PROTECTION BOARD (BASEMENT)

HYDROFOAM HD provides excellent thermal and mechanical properties when used in below grade application.

HYDROFOAM HD's high rigidity and high compressive strength enable it to withstand the pressure of backfill, thus protecting the waterproof membrane from damage. Its suitability is further enhanced by its resistance to rot and moisture.

PHYSICAL AND TECHNICAL DATA

ITEM	TEST METHOD	UNIT	RESULT
Density	ASTM D - 1622	Kg/m^3	40 - 42
Thermal Conductivity @ 32˚c Mean Temperature Of Test	ASTM D - 1621	W/m˚K	0.029
Water Absorption	ASTM D - 2842	% by Vol	0.28
Compressive Strength @ 10% Deflection	ASTM D - 1621-73	N/mm^2	0.60
Linear Coefficient Of Thermal Expansion	ASTM D - 696	mm/mm˚C	70 x 10-6
Water Vapour Permeability	ASTM D - 355	Perm-Inch	0.4 – 0.6
Flammability	DIN 4102	-	BI

SIZE AVAILABILITY

1200 mm x 600 mm @ 25 mm/50 mm thickness

CAUTION

1. Materials should be protected from excessive exposure to direct sunlight and ultra-violet rays. It may be protected using a light-coloured opaque sheet and ventilated to prevent excessive temperature build-up.
   Cover with dark coloured or black plastic sheer is not recommended.
2. Keep away from sparks and fire. Materials should be used in areas with sustained temperature exceeding 88˚C.

Made In Malaysia

CHEMIND

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SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials. Compliance SIRIM testing. Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard.

SIRIM ASTM INTERNATIONAL Standards Worldwide CHEMIND AUSTRALIAN TECHNOLOGY

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