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Hydroboard

EPS: for buildings and civil engineering

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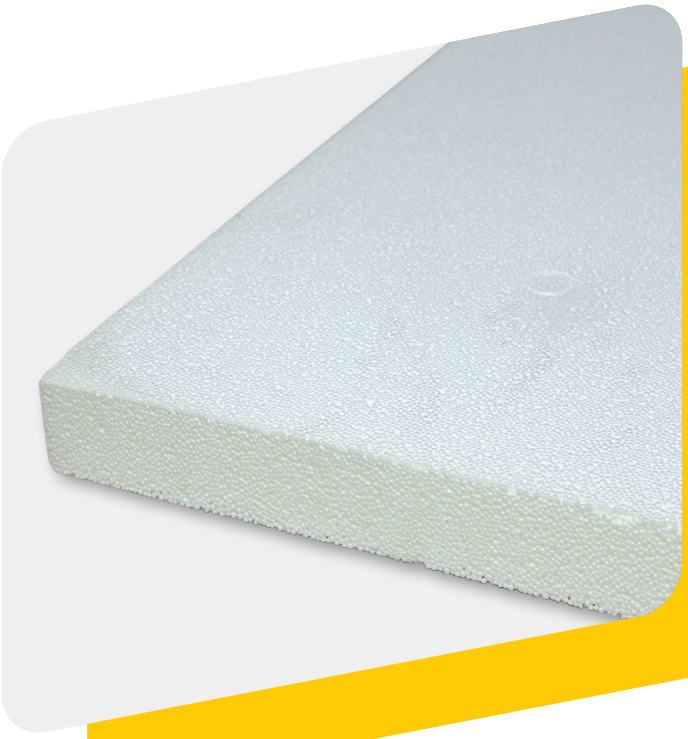

Hydroboard is a moulded insulation board for applications where resistance to moisture and compression is required.

TECHNICAL DATA SHEET

ENERGY SAVING

UNIQUE LIGHTNESS

THERMAL COMFORT

DESCRIPTION

Hydroboard is produced from a raw material specifically formulated for water resistance. Combined with a moulded finish without cut surfaces, Hydroboard exhibits very low water absorption characteristics.

Hydroboard is a insulation solution for applications such as:

- Insulation of surface beds
- Flat roof insulation above waterproofing (protected membrane)
- Cavity insulation in masonry walls.

QUALITY MANAGEMENT SYSTEM

The Springs EPS facility is ISO 9001:2015 accredited.

ENVIRONMENTAL SUSTAINABILITY

The Springs EPS facility is ISO 14001:2015 accredited.

Less material, less energy and less emissions.

- Zero ozone depleting potential (ODP)
- Zero global warming potential (GWP.
- CFC and HCFC free
- Recyclable
- Does not decompose into harmful substances
- Not suitable for food contact.

FEATURES & BENEFITS

- High compressive strength (compared to standard EPS)
- Low water absorption and vapour permeability values
- Cost effective thermal insulation
- Resistant to ageing etc
- High impact resistance.

FIRE PROPERTIES

- Flame retardant EPS distinctly reduces the flammability and the spread of flame on the surface of foamed articles. This product is self-extinguishing as soon as the ignition source is removed.

THERMAL PROPERTIES

Refer to physical properties table.

DURABILITY

- Odourless, inert and fully compatible with all standard building materials and components
- Resistant to fresh water, salt water, alcohol, weak and certain strong acids, weak and strong alkalis, resistant to most vegetable and animal oils
- EPS is vulnerable to ketones, esters, hydrocarbon chlorides, benzol, petrol, fuel and turpentine ether
- Will not promote corrosion of steel, copper or aluminium
- Will not sustain vermin
- Will not breed or promote fungi, mould or bacteria
- Rot proof.

PHYSICAL PROPERTIES

Properties	32 D
Density (kg/m^3) – tolerance +/- 10%	32
Thermal conductivity at 10˚C (W/m.K) (mean temperature)	0.032
Compressive strength (kPa) – @ 10% deformation	225
Tensile strength (kPa)	440
Water absorption % volume	< 0.9
Temperature limits	-150˚C to 70˚C

DIMENSIONS

1500 x 600 x 25	20 per pack	1500 x 1200 x 25	20 per pack
1500 x 600 x 50	10 per pack	1500 x 1200 x 50	10 per pack
1500 x 600 x 75	6 per pack	1500 x 1200 x 75	6 per pack
1500 x 600 x 100	5 per pack	1500 x 1200 x 100	5 per pack

ACOUSTIC PROPERTIES

EPS is not known as a good sound absorbing product due to its closed cell structure and low density. Isover offers a range of alternative acoustical insulation products if required.

APPLICATIONS

- Brick cavity walls
- Under surface beds
- Perimeter insulation
- Flat roof insulation (protected membrane)

TOOLS NEEDED FOR INSTALLATION

- Basic carpentry tools
- Sharp blade/fine toothed saw

INSTALLATION INSTRUCTIONS

Note: Adhesives/paint must be compatible with EPS. Refer to our technical solution centre.

HANDLING & STORAGE

As per all items in storage, fire safety regulations should always be considered. All health and safety regulations should be adhered to and complied with. Product should always be stored under cover and protected from the elements.

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