

## TECHNICAL DATA SHEET

### High Density Polystyrene Insulation Boards-Below Damp Proof Course Applications

**Product Code:** HDEPS\*\*\*



**SPS ENVIROWALL PROMOTES THE RE-USE –RECYCLING AND RESPONSIBLE DISPOSING OF ALL OF ITS PRODUCT RANGE, VIA THE ENVIRONMENTAL LOCAL AND DIRECT FROM SITE RECYCLING SCHEMES IN OPERATION. PLEASE REQUEST DETAILS FROM SPS ENVIROWALL LIMITED.**

#### Characteristics

SPS Envirowall High Density Polystyrene (HDEPS) is used to insulate below the Damp Proof Course (DPC) fixed directly below the main EWI system.

#### Technical Data

Length	L(3)
Width	W(3)
Thickness	T(2)
Squareness	S(5)
Flatness	P(10)
Compressive Strength @ 10% Deformation	CS(10)200 (200 kPa)
Dimensional stability @ 23°C / 50% RH	DS(N)2
Dimensional stability @ 70°C / 90% RH	DS(70,90)1
Long term water absorption by immersion –Total	WL(T)6
Long term water absorption by immersion –Partial	NPD
Water Vapour diffusion resistance factor	40 TO 100 µ Tabulated Value
Water vapour permeability	0.006 to 0.015 mg(Pa.h.m)
Bending Strength	BS250 (250kPa)
Thermal Conductivity	0.034 W/mK
Dangerous substances	None (No test method available)
Reaction to Fire	Euroclass E

#### Substrate

Substrates must be suitable, stable, clean and dry. Loose render parts can be removed or smoothed if necessary.

#### Application

High Density Polystyrene (HDEPS) boards used by SPS Envirowall are manufactured specifically for external wall insulation applications, to densities to suit the system it is applied to. It is light and easy to handle. It is easily cut to size and requires no specialist trades to fit. Depending on the site situation the HDEPS can be applied just to ground level or below by removing the soli/concrete directly below and around the substrate to the depth required. The lower edge of the board should be chamfered to enable the render to be all encompassing around all sides of the board.

Ensure there is a clean break between the above External wall insulation system and the below DPC system to ensure a “wicking” effect does not occur. Use sealing tape – SPS Envirowall Ref.ESPS-seal 15/3-5 – 3-5mm for between the top edge of the board and the underside of the Main EWI system basebead and seal with mastic. The back and front face of the boards must be rasped to allow a key for the adhesive and basecoat to adhere to the board. The boards are adhered using SPS Envirowall Granoltherm DS Ref.ESPS-GRANOLDS adhesive (thickness as per manufacturer’s instructions) and mechanically fixed to the substrate in a “W” pattern using SPS Envirowall insulation board fixings (to suit insulation thickness 10-100mm) (subject to pull out tests fixing type and length may be subject to change). The length of the fixing will need to increase to bridge any existing render to allow for the embedment of the fixing into the substrate (dependant on application requirements-please consult SPS Envirowall for technical advice) then overlaid with HDEPS Basecoat - SPS Envirowall Granoltherm DS

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Ref.ESPS-GRANOLDS base coat thickness as per manufacturer's instructions to the system suppliers specification, reinforcement mesh is applied to this layer..  
Once all finishes are applied the ground backfill must be of free draining material such as gravel.

#### Storage

Store in a clean, dry environment, above ground level and protected

#### Certificates/approvals

#### Identification

Dimensions: Supplied 1200 x 600mm in thicknesses of 20mm-100mm as standard.

#### Special Information

##### Disposal

**ENVIRONMENTAL RECYCLING SCHEMES ARE AVAILABLE. PLEASE CONTACT SPS ENVIROWALL LIMITED FOR DETAILS.**

Check local landfill requirements for correct disposal. See the SPS Envirowall Limited Health & Safety data sheet on this product for information regarding the safe disposal of this product.

The information supplied in this Technical Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Our application recommendations, whether verbal, written or as graphics, are given to the best of our knowledge and the state of the art. Information about values, quantities etc. are based on approximate figures. The recommendations do not constitute a legally binding warranty of quality. In particular no liability claims may be based on these recommendations; the provisions of the product liability law remain unaffected.

The recommendations do not release the purchaser from his own duty to test the product or from his own responsibility, and in particular they do not release the purchaser from compliance with the relevant technical guidelines, regulations, DIN and laws. Publication of a revised version of this technical information sheet due to technical progress invalidates all older versions of this document