

XPS-Perimeterdämmplatten

Extruded polystyrene insulation boards for alsecco perimeter systems

AREAS OF APPLICATION

Thermal insulation of walls with ground contact outside of the building sealing as:

- Perimeter insulation in the presence of ground dampness and non-pressing water as defined by water exposure classes W1.1-E, W1.2-E in accordance with DIN 18533-1.
- Perimeter insulation in pressing water and accumulating seepage water as defined by water exposure classes W2.1-E and W2.2-E in accordance with DIN 18533-1.

The boards may be used in areas exposed to prolonged or constant pressing water (groundwater), with a maximum board immersion depth of 3.50 m.

If the perimeter insulation boards are installed in the groundwater zone, adequate ballasting must be established by means of static calculations. The buoyancy forces must not be transferred to the structure via bituminous adhesive / waterproofing products.

These boards are not intended for a coating or for application in the base area.

Please request advice for other applications.

PRODUCT PROPERTIES

- Application type: PW according to DIN 4108-10
- Smooth surface compressed by means of extrusion
- Edge formation: Step rabbet
- Rated value for thermal conductivity of 0,034 - 0,039 W/mK (depending on the water exposure class and insulation material thickness when installed as a single layer)
- Quality controlled according to DIN EN 13164
- Toxicologically harmless; CFC, HCFC, HBCD and HFC free

TECHNICAL DATA

Fire behavior	E according to DIN EN 13501-1
Rated value of thermal conductivity	Rated value according to DIN 4108-4: 0,034 W/(mK) at ground dampness and non-pressing water as defined by water exposure classes W1.1-E, W1.2-E in accordance with DIN 18533-1. 0,039 W/(mK) in pressing water and accumulating seepage water as defined by water exposure classes W2.1-E and W2.2-E in accordance with DIN 18533-1. If multiple layers are installed, please refer to the general building inspectorate approval for the rated values of thermal conductivity.
Dimensions	1265 x 615 mm, covered surface 1250 x 600 mm

Water absorption	0.7 v.-% according to EN 12087
Water vapour diffusion resistance μ	150 - 50 (depending on thickness)
Density	31 - 39 kg/m ³
Edges	15 mm Step rabbet
Compressive stress at 10 % compression	300 kPa

APPLICATION INSTRUCTIONS

Substrate pre-treatment	<p>All substrates must be sound, even (DIN 18202 or 18203, as applicable), clean and free from adhesion-reducing residue.</p> <p>If appropriate, pre-treat substrates as stipulated in the instructions for the adhesive specified for the area of application.</p>
Application	<p>XPS perimeter insulation boards must be installed in single or double layers, butted tightly together, with the vertical joints staggered. They must lie flat against the substrate. Cross joints should be avoided.</p> <p>The boards are bonded to the substrate using the method specified for the particular application and water exposure class, and the bonding mortars suitable and specified for this.</p> <p>In the area of application of "water exposure classes W1.1-E and W1.2-E according to DIN 18533-1" the insulation board must be secured to prevent it from moving or slipping. Spots of adhesive may be applied to secure the boards in position. The vertical and horizontal joints of the boards must always be kept free of adhesive. On bitumen waterproofing systems a soft bonding product, e.g. alsecco Bitumen Adhesive 2C, that does not transfer loads to the waterproofing, system must be used.</p> <p>In the area of application of "water exposure classes W2.1-E and W2.2-E according to DIN 18533-1" the insulation boards must be fully bonded to the substrate. The edges all round the board must be filled with adhesive or suitable bitumen sealants to prevent water from creating flow paths behind the board.</p> <p>The insulation boards are installed with the vertical joints staggered by at least 10 cm. The insulation material must be dovetailed at the corners of the building.</p> <p>If the possibility of damage to the insulation boards during backfilling and compaction of the foundation pit cannot be excluded, a protective layer (dimple membrane, filter fleece or similar) must be placed in position before the pit is backfilled.</p> <p>The structural waterproofing including auxiliary materials must be compatible with the XPS perimeter board.</p>
Informations	<p>The building and its components, in front of which XPS perimeter insulation boards are to be arranged, must be protected against exposure to water with a building sealing according to DIN 18533-1 or not require any additional enclosure due to its construction.</p> <p>Do not install damaged insulation boards.</p>

Suitable measures must ensure that water (e. g. flowing on the ground surface or rainwater running down the surface of the facade) cannot seep behind the insulation layer.

STORAGE

Dry, protected against moisture and sunlight.

PACKAGING INFORMATION

Colour	Green
Packaging unit	Please also refer to the current product range

OTHER INFORMATION

Information on safety	The information contained in the current safety information sheet applies.
Transportation	Not a hazardous material

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The above information is based on many years of experience and tests and is provided by us to the best of our knowledge. Such information applies in addition to our application guidelines. However, we cannot accept any responsibility for the correctness of our recommendations on account of wide variety of substrates and of on-site conditions and applications which are outside our control. Any recommendations provided by our employees and deviating from these documents must be given in writing. We reserve right to make any changes on account of technical progress or building regulations. Your technical advisor will be pleased to provide the relevant product data sheets.

