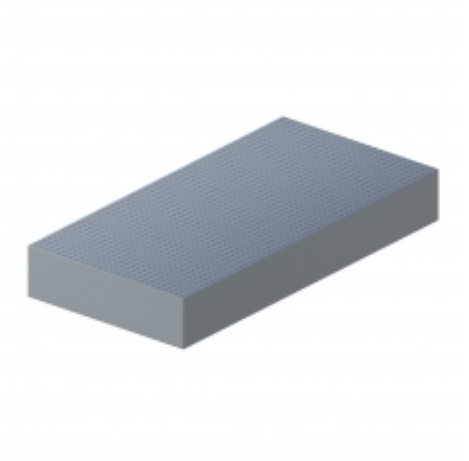
Sockel- und Perimeterdämmplatte 032

Expanded polystyrene insulation boards for alsecco plinth and perimeter systems



AREAS OF APPLICATION

Sockel- und Perimeterdämmplatte 032 are used for the thermal insulation of walls that are in contact with soil, with exposure to water classified as W1.1-E and W1.2-E in accordance with DIN 18533-1 as well as for wall-base insulation (exposure to water W4-E, splash zone) in alsecco façade systems.

These boards are approved for installation down to 3 m below ground level.

For reliable installation, drainage must be provided in accordance with DIN 4095 if the soil is cohesive or stratified and may therefore hold ponded or stratum water.

The boards must not be used in the groundwater's capillary fringe (generally 30 cm above groundwater) and in areas of pressing water.

PRODUCT PROPERTIES

- For use in the perimeter area
- Dimensionally stable and no shrinking
- Quality controlled according to DIN EN 13163
- Excellent render adhesion due to profiled surface on both sides
- Toxicologically harmless; CFC, HCFC, HBCD and HFC free
- Thermal transmittance coefficient 032 in the plinth area above ground level W4-E
  Thermal transmittance coefficient 036 in the ground when subjected to water exposure W1.1-E and W1.2-E
- Wasserundurchlässig

TECHNICAL DATA

Fire behavior	B1 according to DIN 4102-1 E according to DIN EN 13501-1
Rated value of thermal conductivity	0,032 W/(mK) according to DIN 4108-4 to atmosphere (plinth) 0,036 W/(mK) according to DIN 4108-4 in ground (perimeter) The insulation board thickness to be used for the mathematical proof of thermal protection is the nominal thickness reduced by 5 mm.

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Dimensions	1000 x 500 mm
Thickness	20 - 300 mm (plinth insulation boards) 60 - 300 mm (Perimeter insulation boards) Typ PW according to DIN 4108-10
Water absorption	≤ 3 % v/v acc. to DIN EN 12087 for long-term total immersion
Water vapour diffusion resistance μ	40/100 according to DIN EN 12086
Density	≤ 30 kg/m^3
Edges	≤ 200 butt > 200 step fold
Compressive stress at 10 % compression	≥ 150 kPa

APPLICATION INSTRUCTIONS

Substrate pre-treatment	All substrates must be stable, dry, level (DIN 18202 or 18203), clean and free of any residue, which can reduce adhesion.
Application	Install a single layer of Sockel- und Perimeterdämmplatte 032 butted tightly together, with the vertical joints staggered. They must lie flat and in contact with the substrate; cross-joints must be avoided. The boards are bonded to the substrate using the method specified for the particular application and the adhesive suitable and specified for this. The vertical and horizontal joints of the boards must always be kept free of adhesive. When used as a perimeter insulation board (no ETICS or rendering system build-up), the insulation board must be secured only so that it stays in the correct position and does not slip. In this area it is permissible to apply spots of adhesive to secure the boards in position. On bitumen-based, structural waterproofing systems a soft bonding product, e.g. alsecco Bitumenkleber 2K, that does not transfer loads to the waterproofing system, must be used. Soft adhesives, such as bitumen adhesives, are only to be applied in the perimeter area, so that board marks are not visible. In the rendered, visible plinth area the insulation boards are essentially installed in the same way as for an ETICS. The adhesive (not bitumen adhesive) is therefore applied to create a close bond with the substrate using the spot-and-bead method so that the adhesive covers at least 40 % of the contact area, or using the combed-bed method. This type of fixing can also be used for areas in contact with the ground up to approx. 30 cm above ground level if the insulation boards are part of a rendered plinth insulation system. 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. We recommend chamfering the edge of the board (45°) if the lower edge of plinth or perimeter insulation boards cannot be butted tightly against the adjoining structural elements or other insulation materials. Open joints ≤ 0.5 cm wide between the insulation boards must be closed with B1 Filling Foam; larger joints must be closed with strips of an equivalent insulation material.

Information	The building and its components, in front of which the Sockel- und Perimeterdämmplatte 032 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. Do not install damaged insulation boards. Uncoated insulation boards must be protected against moisture, coated with base coat as soon as possible or must be covered with suitable soil. If damage to the perimeter insulation boards cannot be ruled out when the construction pit is filled, a protective layer must be set up prior to filling. 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. To avoid excessive heating, take suitable measures to protect the insulation boards on the facade from solar radiation. A distinct separation between plinth and facade insulation using a plinth recess is recommended for the application of best suitable material combinations and allows for independent renovation intervals of the facade surface. The plinth insulation board can also be mounted flush with the facade insulation. A finishing coat applied up to or into the ground must be coated with a system approved moisture-protection up to approx. 5 cm above ground level. Plumb-vertical traffic loads exceeding 5 kN/m² on the adjacent terrain must not be imposed on the ground within a minimum distance of 3 m from the structure. In the plinth area of alsecco façade systems, the Sockel- und Perimeterdämmplatte 032 is used to provide thermal insulation above ground level for walls in contact with soil. For applications other than the above please contact us for advice!

STORAGE

Dry, protected against moisture and sunlight.

PACKAGING INFORMATION

Colour	Grey

OTHER INFORMATION

Information on safety	The information provided in the current safety data 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.

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