PMD 032 grey

Perimeter/base insulation panel

EPS insulation panel according to DIN EN 13163 and general building approval made of expanded polystyrene (EPS), flame retardant - building material class B1

- thermal conductivity: λ = 0.032 W/(mK)
- dimensions: 1000 x 500 mm

Applications

- external thermal insulation of walls against soil (outside the waterproofing), PW according to DIN 4108-10 in case of loads from ground moisture and non-standing seepage water
- external thermal insulation of walls in the splash water area with partial integration into the ground, WAS in accordance with DIN 4108-10
- take account of supplement from design certification when it comes to thermal conductivity

Properties

- HBCD, HCFC and HFC free
- dimensionally stable
- age-resistant
- optimum plaster adhesion thanks to textured surface
- good workability
- thermally insulating
- From an insulation panel thickness of 220 mm, design with edge formation in stepped rebate

Substrate

Condition / Testing

- The substrate must be dry, load-bearing, clean, dust-free and free of adhesion-reducing residues, release agents, efflorescence and sintered coatings.
- The substrate for the bonding process is to be checked for load bearing capacity according to the state of the art and relevant standards and pre-treated if necessary.
- The compatibility of any coatings present with the adhesive mortar must be expertly checked.

Processing

Applying / Processing / Assembling

- Bonding of panels:
  The insulation panels must be bonded over the entire surface or using the point-bead method (at least 40 % adhesive area), e.g. with akurit UNI-SD Universal Sockel-Dicht, akurit SK grey, akurit SK white or akurit SK light.
- Position insulation panels immediately, at the latest however 10 minutes after applying the adhesive, in horizontal rows with at least 10 cm overlap butt jointed and press on whilst pushing. Cross joints are to be avoided.
- Do not allow any adhesive mortar to get into the panel joints.
- No open joints must develop between the panels.
- Depending on the substrate, dowelling can be carried out approx. 15 cm above the splash zone.
- Reinforcement of panels:
  The plaster is applied in 2 layers. Apply the first layer approx. 5 mm and embed the reinforcing mesh tightly and crease-free in the upper third of the plaster layer.
  The individual mesh panels must overlap by approx. 10 cm and be completely covered with reinforcing mortar. Apply the second layer of finishing render on the following day, approx. 2 mm thick, smooth and felt down so that a total layer thickness of ≥ 7 mm is achieved with UNI-SD. UNI-SD can be used at this layer thickness without additional moisture protection.

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Perimeter/base insulation panel

Notes

- The application of the perimeter insulation system is permitted down to depths of 3 m below the ground surface.
- The package insert for the perimeter insulation panel is to be kept for the site documentation.
- The application of the perimeter insulation system in the capillary fringe of the groundwater (as a rule approx. 30 cm above groundwater level) and in the area of pressing water is not permitted. Perpendicular traffic loads of more than 5 kN/m² on the adjacent terrain must maintain a distance of at least 3 m from the perimeter insulation system.

Available insulating material thicknesses

- 30 mm, 40 mm, 50 mm, 60 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm, 180 mm, 200 mm, 220 mm, 240 mm, 260 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm

Storage

- Store dry and as per instructions.
- Protect against direct sunlight.

Technical Data

Application abbreviation	WAS, PW according to DIN 4108-10
Panel format	L x W (mm): 1000 x 500
Rated value of the thermal conductivity λ	in the base joint area 0.032 W/(mK); in the soil according to type approval/declaration of performance up to 0.036 W/(mK)
Compressive stress at 10% compression	≥ 150 kPa according to EN 826
Building material class	B1 (flame-resistant) according to DIN 4102-1
Fire behaviour	E according to EN 13501

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

General notes

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.

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