

Alsitherm Pheno 021

Phenol resin insulation boards for the exterior thermal insulation of buildings



AREAS OF APPLICATION

Phenol resin insulation boards for bonded and bonded + mechanically fixed Systems.

PRODUCT PROPERTIES

- HBCD free, CFC and HCFC free
- Highly heat insulating
- fleece laminated on both sides

TECHNICAL DATA

Fire behavior	C-s2, d0 according to DIN EN 13501-1
Thermal conductivity λ	Rated value: 0,022 W/(mK) according to DIN 4108-4 (20 - 40 mm) 0,021 W/(mK) according to DIN 4108-4 (50 - 120 mm) 0,022 W/(mK) according to DIN 4108-4 (130 - 150 mm) 0,021 W/(mK) according to DIN 4108-4 (160 - 200 mm)
Dimensions	1200 mm x 400 mm Reveal insulation boards: 20 - 30 mm Insulation boards: 40 - 200 mm* *Insulation boards \geq 160 mm are two single boards bonded together
Water vapour diffusion resistance μ	approx. 35
Density	approx. 35 - 45 kg/m ³
Length and width tolerances	\pm 5 mm long \pm 3 mm wide
Thickness tolerance	\pm 2 mm (20 - 40 mm insulation thickness) - 2 mm / + 3 mm (50 - 100 mm insulation thickness) - 2 mm / + 3 mm (100 - 200 mm insulation thickness)
Edges	blunt

Tensile strength at right angles to board (to DIN EN 13166) $\geq 60\text{kPa}$

APPLICATION INSTRUCTIONS

Substrate pre-treatment

Pretreat substrates according to the application instructions for the adhesive.

Application

Unpack the insulation boards min. 10 min. before applying to release the tension in the boards.

Mounting parts in direct contact with phenolic resin insulation material such as base and corner rails for instance, must be made of plastic, stainless steel or aluminium or be protected against corrosion. Contact of other unprotected metals with phenolic resin insulation material leads to corrosion and must be avoided

Damaged insulation boards cannot be installed; therefore, cut off detached or no longer fixed matting. Only cut the insulation boards using a saw, knife, etc. Cutting with foam cutters is not possible.

Bonding is conducted with insulation adhesive MK, Armatop AKS or Armatop MP full-surface with notched trowel or by applying adhesive in spots on the edge of the board and additional dots or stripes on the surface, so that an effective bonding surface of at least 40% per insulation board is attained (e.g. spot width > 10 cm, +6 spots for each \varnothing of 12 cm).

Installation using stretcher bond formation offset by at least 10 cm. Interlock insulation material on building corners.

Butt insulation boards together, seal open joints and flaws up to a width of 5 mm with B1 filling foam, seal larger joints with insulation strips.

Do not apply any adhesive to butt or bed joints.

It is not recommended to eliminate unevenness on the surface of insulation boards by means of sanding, large-scale removal of the matting is permissible.

After the curing of the adhesive mortar, fix the insulation boards with the required plugs approved by the building authorities according to wind load calculations. The plugs can solely be flush-mounted. For surface fixing of the anchors a combination of the Alsifix Carbon with the Anchor plate VT 2G (from 80 mm) is possible.

Decouple the connection of the insulation boards to other components zero-potential using joint sealing tape.

Butt joints on insulation boards may not be above the connection zones of different components (e.g.... ring beams, roller shutter boxes, element joints). Here, the insulation material should bridge a space of at least 10 cm and be supported on both sides by means of a reliable bond and if necessary, be anchored.

Do not leave the insulation boards uncoated for longer than approx. 7 days.

Solely use Armatop Por in a 5-7 mm layer thickness with fibreglass mesh 32 as reinforcement on the facade insulation board.

Silicone resin render and Alsilite - Aero are possible finishing coats.

Informations

The insulation material is not suitable for the incorporation of spiral plugs and mounting elements such as DoRondo-PE mounting cap or ZyRillos mounting

cylinder, which are solely adhered to the insulation material. Components can only be fixed using corresponding mounting elements in insulation thickness. Unrendered insulation boards on the facade must be protected against moisture and coated with reinforced undercoat render as soon as possible.

Do not install damaged insulation boards.

STORAGE

Dry, protected against moisture.

Cover packages with protective sheeting at the construction site, protect insulation boards against direct sunlight. If the boards do not have adequate protection, avoid longer periods of exposure to UV.

Storage results in a colour change of the boards however, this does not affect the properties of the boards.

PACKAGING INFORMATION

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

OTHER INFORMATION

Information on safety	The information provided in the current safety data sheet applies.
Transportation	Not a hazardous material
Waste code	17 06 04(class II waste disposal, household and construction waste disposal)

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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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