

TECHNICAL DATA SHEET

30865 KLIMAKOMFORT PERLIT-PLATTE



AREA OF APPLICATION

Moisture-regulating, capillary-active, mineral insulation board on a natural volcano rock base (perlite). Developed specifically for mould remediation and prevention on ceilings and walls in interiors.

PROPERTIES

- High alkalinity counteracts mould
- Supports moisture-regulating and capillary-active properties
- Thermal conductivity group 055
- Very high water vapour diffusion
- No vapour barrier required
- Resistant to mould
- Very fast water absorption
- Rapid distribution and drying of moisture formation
- Building material class A1, non-combustible
- Thermally insulating properties
- Clean packaging inside box
- Non-hydrophobic
- Easy application
- Fully recyclable
- Environmentally friendly
- Coordinated system components

FORMAT / CONTAINER:

Board format: 625 x 416 mm

Board thickness: 25 mm

12 boards in a box
3.12 m² in a box

18 boxes per pallet
56.16 m² per pallet

TECHNICAL DATA:

Water vapour diffusion resistance μ	5-6
Water absorption (dependent on applied finishing coat)	Approx. 13.7 l/m ²
Thermal conductivity λ	0.055 W/(mK)

Thermal conductivity group	055
pH value	10

AREA OF APPLICATION

GENERAL RULES:

The substrate must be prepared and the plastering work performed in accordance with the state of the art. All coatings and preliminary work should always be geared towards the project and the requirements it is exposed to. Please also observe the current BFS data sheets, published by the German Federal Committee for Paints and the Protection of Objects. Also see German construction contract procedures (VOB), Part C, DIN 18363, Paragraph 3 "Painting and coating work". Treating/removing layers of paint by sanding, welding, burning off, etc. can cause harmful dust and/or vapours. Only carry out work in well-ventilated areas. Use appropriate breathing apparatus/protective equipment, if necessary. All substrates must be clean, dry, load-bearing, and free from release agents. Substrates must be checked in terms of their load-bearing capacity and suitability for subsequent coatings. If necessary, create a test surface and test the adhesion.

SUBSTRATE

SUBSTRATE UNEVENNESS:

- Substrates with rising damp and/or building moisture are not suitable adhesive substrates.
- Resistance to driving rain as well as the impermeability of facade building elements close to the ground must be assured.
- Remove organic coatings from the substrate.
- Specific consideration in terms of building physics must be given to materials containing gypsum and plans must be made accordingly.

- Project-specific plans must be drawn up for wall structures (e.g. studs, drywalls, etc.).
- The suitability of gypsum plasterboards as a substrate is limited (consider the dew point). The boards will swell if too much moisture is absorbed.
- Unevenness of the substrate can be levelled with SÜDWEST KlimaKomfort K+A Mörtel.
- Use in rooms exposed to moisture is only possible if the SÜDWEST KlimaKomfort Perlit-Platte is able to release the build-up of moisture before saturation point is reached.

SUBSTRATE PREPARATION:

MOULD-INFESTED SURFACES:

Pre-treat with SÜDWEST Schimmel-Fresser or SÜDWEST Fungan®, read the associated technical documentation.

WALLPAPERS:

Must always be removed, along with all traces of paste residue.

EXISTING COATINGS AND PLASTERS:

Check the resistance of non-organic existing coatings. Remove organic coatings. Check the resistance of plasters in mortar groups PG II and PG III. Carry out separate assessments of plasters in mortar groups PG IV and V for every project on a case-by-case basis.

APPLICATION

MATERIAL PREPARATION:

Read the technical documentation for SÜDWEST KlimaKomfort K+A Mörtel. To gain the greatest possible benefit from the moisture-regulating properties, the system build-up should be as diffusion-open as possible. The board offset must be at least 20 cm; cross joints should be avoided. Board adhesive in the

joint is not permitted; cut SÜDWEST KlimaKomfort Perlit-Platten exactly to size or use SÜDWEST KlimaKomfort Perlit-Spachtel; fill defects all the way down to the substrate (do not just seal). Any offset areas or adaptations can be equalised with a sanding board once the adhesive has dried.

The boards are laid in a bond, horizontally, butt-jointed.

The adhesive is applied full-surface notched in the direction of the length of the board (10 mm notching) with a minimum layer thickness of 5 mm on the white side of the board without imprint. Use a sharp knife or a fine-toothed saw to cut the boards to size.

The minimum layer thickness of the reinforcing compound must be 5 mm without mesh. SÜDWEST WDVSMART Armerungsgewebe Fein is embedded as reinforcing mesh and smoothed. Float-finish in a separate layer if necessary. Connections must be made airtight/diffusion-tight on site; thermal bridges should be avoided if at all possible.

Depending on the flooring and the project (e.g. unevenness, etc.), joint sealing tape (SÜDWEST WDVSMART Fugendichtband) can be used for decoupling or adaptation and to avoid backflow in internal insulation.

Use suitable anchor fixings for wall heights > 3.8 m (anchor must be suitable for corresponding substrate).

Please refer to the application guidelines for instructions and a detailed description.

The boards must be fixed with one anchor per panel for application on ceilings, beams, etc. (overhead).

SUBSEQUENT HEAVY COVERINGS (E.G. TILES, NATURAL STONE, ETC.)

Ceramic coverings significantly diminish the moisture management of the SÜDWEST KlimaKomfort system but are possible under certain conditions.

Maximum format for ceramic coverings 30x30 cm, maximum weight of covering (inc. adhesive and joint) 12 kg/m².

Maximum wall height 3 m and maximum length 5 m.

Prime the board with SÜDWEST Fixativ (diluted 1:1 with water) or SÜDWEST ThixGrund. SÜDWEST KlimaKomfort K+A Mörtel should be applied in a layer thickness of at least 5 mm. Full-surface reinforcement with SÜDWEST WDVSMART Armerungsgewebe Fein overlapping 10 cm is necessary.

One suitable anchor per board and two in each edge zone are inserted through the mesh into each reinforcing coat. Cover the tops of the anchors with SÜDWEST K+A Mörtel. Adhesive and joint material must be flexible in composition.

SPECIAL INFORMATION

Special attention must be paid to water pipes when external walls are being insulated. There is a risk of damage to pipes if frost gets through the SÜDWEST KlimaKomfort Perlit-Platte and into the area in which they are installed.

EC DIRECTIVE 2004/42/CE

This product is out of scope of the VOC Directive.

GENERAL SAFETY ADVICE

Good ventilation must be ensured while paints and varnishes are being applied and are drying. Keep away from food,

drink, and animal feed. Avoid contact with skin and eyes. Do not breathe in dust during sanding work. Keep out of reach of children. Do not allow to enter ground water, bodies of water, or the sewer system in undiluted or large quantities. Further information and the current SDS are available at www.suedwest.de

TECHNICAL CONSULTATION

Our sales representatives will be happy to answer any questions which have not been covered by this Technical Data Sheet. Our technical customer service team at the factory is also available to answer any detailed queries you may have. (06324/709-0)

DISCLAIMER

We are committed to taking the utmost care. However, we are only able to provide general information based on our own experiences, developments, and investigations, and these naturally cannot take the individual conditions of a project (substrates, weather conditions, other conditions) into account. The applicator is therefore obliged to maintain their knowledge in accordance with the state of the art and act responsibly. Our employees are available to provide specific advice and will be happy to do so. We accept no responsibility for the use of the product in combination with other products. The data provided in this Technical Data Sheet does not constitute binding information or liability. Furthermore, suspension or the appearance of a subsequent edition will invalidate this Technical Data Sheet; information about this can be accessed at any time on our website: www.suedwest.de.

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**SÜDWEST Lacke + Farben GmbH & Co. KG,
 67459 Böhl-Iggelheim**

SW-18

Production date (see batch number)

**Insulation board made of expanded perlite,
 not compliant with EN 13169**

Nominal thickness	25 ± 1 mm
Nominal length	625 ± 3 mm
Nominal width	416 ± 3 mm
Bulk density	130–150 kg/m ³
Tensile strength perpendicular	> 120 kPa
Compressive strength	≥ 300 kPa, CS(10/Y)300
Flexural strength	> 200 kPa
Tensile strength	> 120 kPa
Dimensional stability in def. temperature and moisture conditions	Max. + 0.5 %
Deformation under pressure and temperature load	≤ 5 %, DLT (3)5
Reaction to fire	A1
Thermal conductivity λ _N	0.055 W/(mK)
Thermal conductivity group	055
Water vapour diffusion-equivalent air layer thickness μ	5–6