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This is a translation of the product data sheet valid in Germany.

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Plaster & Façade Systems

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Product Data Sheet

2023-03



Rotkalk in-Board 045 TecTem®

Insulation panel made of natural perlite for interior insulation

Product description

Rotkalk in-Board 045 TecTem® is a mineral and capillary active insulation panel made of expanded, natural perlite rock and has been specially developed for exterior walls.

Storage

Protect Rotkalk in-Board 045 TecTem against moisture, frost and weather conditions during transport, storage and installation.

Quality

In compliance with ETA15/0004, the product is subject to initial type testing and continuous factory production control as well as external monitoring and bears the CE marking and the Ü marking.

Field of application

For interior insulation of walls and ceilings (WI, DI acc. to DIN 4108-10).

Properties and added value

- Mineral-based
- Steam diffusion permeable
- Highly capillary-active
- Quick distribution and drying of incidental moisture
- Non-combustible, reaction to fire A1 acc. to DIN EN 13501-1
- Completely recyclable
- Mould resistant



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- emissionsarm
- geringer Schadstoffgehalt
- in der Wohnumwelt gesundheitlich unbedenklich



Application

Preconditions

All connections to wall openings such as windows, doors as well as window sills must be completely air tight.

Application

Apply Rotkalk in-Board 045 TecTem® directly after the full surface application of the Rotkalk in-Klebmörtel TecTem adhesive in horizontal rows at a constant pressure by sliding and pushing-in and aligning perpendicular and flush. Apply joint on joint with a joint offset ≥ 20 cm tightly jointed. No adhesive may get into the joints. Ensure that the connections are air tight and the ensure decoupling from other constructional components. Avoid thermal bridges.

Offset mismatches can be equalized with a sanding board when the adhesive has set. Panel joints > 2 mm or flaws are filled using Rotkalk in-Füllmörtel TecTem mortar.

At wall heights > 4 m, dowelling using suitable screw dowels will be required across the entire wall area after the Rotkalk in-Klebmörtel TecTem adhesive has dried and set. Before application of the plaster system, apply Aufbrennsperre suction block primer (diluted in a ratio of 1 part suction block to 3 parts water) on Rotkalk in-Board 045 TecTem.

Application temperature/climate

During application and drying the room and substrate temperatures may not fall below $+5$ °C.

Notes

Rotkalk in-Board 045 TecTem® is delivered on Euro pallets wrapped in foil. Do not stack pallets on one another. When unloading and placing the pallets or individual packages ensure that the corners and edges are not damaged. Avoid bending stresses.

Don not apply damp or wet panels.

The necessary Rotkalk in-accessory products can be found in the Rotkalk in-system range.

Technical data

Description	Standard	Unit	Rotkalk in-Board 045 TecTem®
Reaction to fire	EN 13501-1	Class	A1
Format W x L	–	mm	416 x 625
Thickness	EN 823	mm	50 – 200
Dry density	EN 1602	kg/m ³	approx. 90 - 105
Tensile strength	EN 1607	kPa	≥ 80
Compressive strength	EN 826	kPa	≥ 200
Flexural strength	EN 12089	kPa	≥ 120
Thermal conductivity λ_D	EN 12667	W/(m K)	0.045
Water vapour diffusion resistance μ	EN 12086	–	5
Water absorption coefficient A_W	DIN 52617	kg/(m ² ·s ^{0.5}) kg/(m ² ·h ^{0.5})	approx. 1.98 approx. 118.8

Product range

Description	Application	Packaging unit		Material number	EAN
	mm	Pieces / package	m ² /package		
Rotkalk in-Board 045 TecTem®	50	7	1.82	00522916	4003950101304
	60	6	1.56	00522917	4003950101311
	80	4	1.04	00522919	4003950101328
	100	3	0.78	00522923	4003950101335



Observe safety data sheet!

For safety data sheets and CE marking see

pd.knauf.de



Videos for Knauf systems and products can be found under the following link:

youtube.com/knauf



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