

Technical Data Sheet

HECK IDP MS

(Interior Insulation Board)

HECK IDP MS: Hydrophilic mineral insulation board based on natural materials (no fiber or synthetic additives) for use as capillary active interior insulation in old or newly-constructed buildings.

- Properties:**
- hydrophilic and capillary conductive
 - highly water vapor permeable
 - high tensile strength
 - easy to handle
 - purely ecological manufacture
 - IBR approval seal "wohnbiologisch geprüft" (no negative impact on interior climate)
 - national technical approval ETA 05-0179
 - color: salmon-colored

Areas of Application: Exclusively for interior use. For the effective interior insulation at walls and ceilings (DI, WI in accordance with DIN V 4108-10:2004-06, table 1). The responsibility for any usage outside these areas of application lies solely with the user.

Component of the HECK IDP MS system solution consisting of:

- Rajasil TG W PLUS
- HECK K+A PORaktiv PLUS
- HECK IDP MS
- HECK AGG FINE
- HECK K+A PORaktiv / HECK K+A PLUS / Rajasil KFP OWA / Rajasil Kalk-RP OWA

Composition: White lime hydrate, silicium dioxide, protein to facilitate pore formation

Technical Data:

Thermal conductivity λ :	0.042 W/(m·K)
Water vapor resistance coefficient μ :	approx. 5
Gross density:	max. 130 kg/m ³
Impact resistance:	>0.150 N/mm ²
Tensile strength:	>0.085 N/mm ²
Water absorption coefficient:	w = approx. 13.9 kg/(m ² h ^{0.5})
Fire behavior:	building material category A1 (non-combustible in accordance with DIN 4102)

Coverage: Dimensions: 58 x 38 cm (0.22 m²) per board
approx. 4.5 pcs./m²

Substrate/Preparation of the Substrate: The mineral substrate must be even, structurally sound, clean, dry, free from grease and dust, and must have sufficient tensile strength. Materials infested with mould (such as gypsum-based building materials or wallpapers) must be properly removed down to the load-bearing surface and disposed of in compliance with the legal requirements.

Testing tensile strength is recommended. Always remove brittle or non-adhering plaster, looselyadhering paint residue, or adhesion-inhibiting layers. Pre-wet highly absorbent substrates.

Pre-treat superficially sanding, chalking, highly absorbent, organic bonded substrates once with Rajasil TG W. Larger blow holes, flaws in the masonry or unevennesses > 1 cm in the substrate can be leveled with HECK K+A PORaktiv PLUS prior to insulation board installation.

Application:

Cutting
For custom-cutting HECK IDP MS use e.g. a handsaw. Due to the easy handling properties of the boards, wedge-shaped elements or geometries for curves or fittings can be created easily.

Bonding
HECK IDP MS are installed in bond and butt-jointed without adhesive in the butt joints and bed joints. Prevent/close open joints. Apply HECK K+A PORaktiv PLUS bonding mortar manually to entire surface of back of board using a notched trowel (10 mm). In case of larger unevennesses, we recommend using the "combined method" (floating-buttering) with additional application of adhesive onto the substrate. Move boards into their final position using even pressure. Mechanically uncouple boards from vibrating construction elements (e.g. screed, timber ceilings).

Reinforcement (3-5 mm application thickness)
Grind down any misalignments in the boards. Remove swarf. In order to reduce absorbency, pre-treat insulation boards once with Rajasil TG W PLUS.

Application:	<p>Application of reinforcement layer with HECK K+A PORaktiv <i>PLUS</i>. Apply mortar in adequate thickness onto insulation boards using a stainless-steel float. For the creation of edges, the use of HECK Kantenprofil PVC with mesh is recommended.</p> <p>Then, embed HECK AGG FINE into upper third (10 cm mesh overlap min.); if necessary, apply some more mortar and trowel flush. In addition, at all corners of openings in construction elements, diagonal fabric strips (20x30 cm) or HECK Gewebepfeile must be embedded.</p> <p>Felted or textured render finish Using a stainless-steel float, fresh-on-fresh apply HECK K+A PORaktiv <i>PLUS</i>, HECK K+A <i>PLUS</i>, Rajasil KFP OWA onto the prepared reinforcement layer in about 2 cm thickness once the setting process has set in. During the setting process, the surface can be rubbed down with felt float or textured.</p> <p>Mechanical fixing Wall: When adhering to the system application instruction during installation of HECK IDP MS, no mechanical fixing is required at walls. Ceiling: At ceilings, we recommend one anchor per board, e.g. HECK Schraubdübel STR-U, flush with the surface in the center of the board.</p> <p>Inducing mechanical loads Mechanical loads (bathroom fittings, heaters or similar) must be conducted to the load-bearing substrate using adequate anchoring methods.</p>								
Surface Coating:	We recommend using only open-porous coating systems; for interior use e.g. Rajasil SIF INTERIOR.								
Notes:	Observe HECK application guidelines and complementary Data Sheets of relevant products.								
Storage:	dry								
Package:	<table border="1"> <tr> <td>144 pcs / pallet in 5 cm thickness</td> <td>(= 31.74 m²)</td> </tr> <tr> <td>120 pcs / pallet in 6 cm thickness</td> <td>(= 26.45 m²)</td> </tr> <tr> <td>84 pcs / pallet in 8 cm thickness</td> <td>(= 18.51 m²)</td> </tr> <tr> <td>72 pcs / pallet in 10 cm thickness</td> <td>(= 15.87 m²)</td> </tr> </table>	144 pcs / pallet in 5 cm thickness	(= 31.74 m ²)	120 pcs / pallet in 6 cm thickness	(= 26.45 m ²)	84 pcs / pallet in 8 cm thickness	(= 18.51 m ²)	72 pcs / pallet in 10 cm thickness	(= 15.87 m ²)
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Safety Instructions:	No special measures necessary.								



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