

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
- HECK K+A RENO
- HECK IDP MS
- HECK AGG FINE
- HECK K+A PLUS/Rajasil KFP/Rajasil KFIP

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.

Testing tensile strength is recommended. Always remove brittle or non-adhering plaster, loosely adhering 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 RENO 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 RENO 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.
Application of reinforcement layer with HECK K+A PLUS.
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.

Application:

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.

Felted or textured render finish

Using a stainless-steel float, fresh-on-fresh apply HECK K+A PLUS, Rajasil KFP, or Rajasil KFIP 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.

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.

Inducing mechanical loads

Mechanical loads (bathroom fittings, heaters or similar) must be conducted to the load-bearing substrate using adequate anchoring methods.

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:

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)

Safety Instructions:

No special measures necessary.



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