

Capatect MW-Dämmplatte 035

Coverrock X-2 105

Non-combustible mineral wool facade insulation board



Product Description

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| Field of Application | Non-combustible mineral wool insulation board within Capatect ETICS (fixed by wall anchors and adhesive mortar). |
| Material Properties | <ul style="list-style-type: none"> ■ Two-sided coating ■ Application type: MW WAP-zh and DI according to DIN 4108-10 ■ Quality-controlled according to DIN EN 13162 ■ Occupational health classification: free according to GefStoffV, ChemVerbotsV and EC Directive 97/69 (Note Q) |
| Colours | Insulation material: brown-yellow, Coating: front and rear side white; front side is marked |
| Storage | Dry, protected from moisture, do not expose to weather without protection. |
| Technical Data | <ul style="list-style-type: none"> ■ Heat conductivity: $\lambda_B = 0.035 \text{ W/(mK)}$ according to DIN 4108-4 (rated value of thermal conductivity) $\lambda_D = 0.034 \text{ W/(mK)}$ according to DIN 4108-4 (nominal value of thermal conductivity λ_D) ■ Resistance-count for diffusion $\mu \text{ (H}_2\text{O)}$: $\mu \approx 1$ according to DIN EN 12086 ■ Raw density: $\rho = 90 \text{ kg/m}^3$ according to EN 1602 ■ Fire behaviour: Class A1 according to DIN EN 13501-1 (non-combustible) ■ Melting point: $> 1000 \text{ }^\circ\text{C}$ according to DIN EN 4102-17 ■ Dynamic stiffness: $s' 12 \text{ MN/m}^3, (\geq 80 \text{ mm})$ $s' 9 \text{ MN/m}^3, (\geq 120 \text{ mm})$ $s' 6 \text{ MN/m}^3, (\geq 200 \text{ mm})$ according to DIN EN 29052-1 <p style="margin-left: 20px;">Length-related flow resistance: $r \geq 40 \text{ kPa}\cdot\text{s/m}^2$ according to DIN EN 29503 $\geq 10 \text{ kPa}$ according to DIN EN 1607</p> <ul style="list-style-type: none"> ■ Tensile strength perpendicular to the plate plane: $\geq 10 \text{ kPa}$ according to DIN EN 1607 |
| Product No. | 105 |



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| Thickness (mm) | Format: 1.200 x 400 mm | |
| | Prod. Nr | m ² /Packaging |
| 80 | 105/08 | 1,44 |
| 100 | 105/10 | 1,44 |
| 120 | 105/12 | 1,44 |
| 140 | 105/14 | 0,96 |
| 160 | 105/16 | 0,96 |
| 180 | 105/18 | 0,96 |
| 200 | 105/20 | 0,96 |

Application

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| Substrates | Mineral substrates of new construction, solid old render, wood and board materials, as well as load-bearing old paints or coatings or in accordance with the specifications of the "Allgemeinen bauaufsichtlichen Zulassung" (general building authority approval) / "Allgemeine Bauartgenehmigung" (type approval) of the ETICS. |
| Substrate Preparation | Pre-treat substrates in accordance with the processing instructions for the adhesive. |
| Consumption | 1 m ² /m ² |
| Application Conditions | During application and in the curing phase, the ambient and substrate temperatures must not be below +5 °C or above 30 °C. In unfavourable weather conditions, suitable measures must be taken to protect the processed facade surfaces. |
| Bonding of Insulation Boards | <ul style="list-style-type: none"> - Manual or machine application possible - Lay insulation boards at least 10 cm staggered in a bond and butt tightly (avoid cross joints) - Butt joints and bearing joints must remain free of adhesive - Never seal joints between insulation boards with adhesive - Fill joints ≤ 5 mm with suitable flame-retardant joint foam - Close joints and gaps > 5 mm with equivalent insulation strips - Avoid height offset at the panel joints - Interlock insulation materials at the corners of the building - Ensure that the application is flush and plumb - Damaged insulation boards must not be installed <p>Bead-dot method: Due to the existing adhesive coating on the adhesive side, press levelling can be omitted. Application of a circumferential bead on the edge of the panel and adhesive dots in the centre.</p> <ul style="list-style-type: none"> - Render systems - adhesive contact area ≥ 40 % - Hard Cladding systems - adhesive contact area ≥ 60 % <p>Full-surface bonding: When applying adhesive to the entire surface of the insulation board, use the toothed bed method. When applying adhesive to the entire surface of the wall, comb through the adhesive with a notched trowel immediately before attaching the insulation board. The insulation boards must be pressed, floated and pressed onto the substrate immediately, after 10 minutes at the latest, with the side to which the adhesive has been applied.</p> <p>Machine bonding (partial surface method): Apply the adhesive to the substrate by machine in the form of vertical beads. The adhesive beads must be approx. 5 cm wide and at least 10 mm thick in the centre of the bead. The centre-to-centre distance must not exceed 10 cm. The insulation boards must be pressed, floated and pressed into the fresh adhesive mortar bed immediately. To avoid skin formation, only as much adhesive surface may be applied as can be laid directly with insulation boards.</p> <ul style="list-style-type: none"> - Render systems - adhesive contact area ≥ 40 % |
| Verdübelung | <p>The insulation boards must be glued to the substrate and fixed with anchors. The number and position of the anchors is specified in the "Allgemeine bauaufsichtliche Zulassung" (general building authority approval) / "Allgemeine Bauartzulassung" (general type approval). Anchoring is carried out after the adhesive mortar has hardened sufficiently.</p> <p>Flush with the surface: The insulation boards can be fixed with approved Capatect plate anchors (plate diameter 60 mm) or combined with the <i>Capatect Dübelscheibe 153</i> (plate diameter 90 mm).</p> <ul style="list-style-type: none"> - Anchor arrangement: in the surface or in the surface and joint |

Recessed installation:

The insulation boards can be fixed with the *Capatect Universaldübel 053* in combination with the *Capatect Thermozyylinder 154* (disc diameter 112 mm). It is recommended that the anchors in the recessed fixing variant are only placed in the surface. Covering is carried out with the associated anchor roundel.

- Anchor arrangement: in the surface or in the surface and joint

When fixing in the surface, a distance of 15 cm from the anchor shaft to the edge of the insulation board and 20 cm between anchors must be maintained.

Dowelling through the glass fibre mesh:

The insulation boards can be fixed with approved Capatect plate anchors (plate diameter 60 mm) through the glass fibre mesh after the base coat has been applied. Then immediately ('fresh in fresh') or a second layer of base coat is applied.

- Anchor arrangement: according to DIN 55699

Dowelling through the mesh with bonded cladding or rendered ceiling soffits:

For systems with bonded cladding or rendered ceiling soffits, the insulation boards must be fixed with approved Capatect plate anchors (e.g. *Capatect Universaldübel 053*) through the reinforcement mesh after the base coat has been applied. The anchor plates are then immediately levelled ('fresh in fresh') or a second layer of base coat is applied.

Systems with bonded cladding:

- Anchor arrangement: according to DIN 55699

Ceiling soffits:

- Anchor arrangement: according to the dowel grid of the building authority approval

- Insulation thickness: from 80 - 200 mm

Note

Protect unrendered insulation boards on the façade from moisture and coat with reinforced base coat as soon as possible.

Butt joints of insulation boards must not lie over the connection zones of different components (e.g. ring anchors, roller shutter boxes, element joints). The insulation materials should be bridged by at least 10 cm and supported on both sides by a secure adhesive connection.

Expansion joints in the building must be incorporated into the external thermal insulation composite system.

The insulating material is not suitable for holding spiral dowels and mounting elements such as DoRondo-PE mounting cones and ZyRillo mounting cylinders, which are exclusively adhered to the insulating material. Attachments are fastened exclusively using mounting elements that are fixed to the substrate or are otherwise suitable.

The "Allgemeine bauaufsichtliche Zulassung" (general building authority approval) / "Allgemeine Bauartgenehmigung" (general type approval) of the underlying ETIC systems or RVS and the technical information of the products must be observed.

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

If dust occurs, wear protective clothing (dust-proof) and a dust mask P1. Wear safety glasses when carrying out mechanical processing (sawing, drilling, grinding, milling) and when working overhead.

Disposal

Waste must be avoided through careful cutting and further use. Nevertheless, dispose of any small material residues in accordance with EAK 170604 (insulation material).

Approval

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Z-33.46-1091
Z-33.46-1732
Z-33.47-859

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