

Capatect MW-Dämmplatte 035 LIGHT 145

Lightweight, non-combustible façade insulation board made of mineral wool



Product Description

Field of Application	Non-combustible facade insulation board for use in Capatect facade systems. To be fixed with adhesive mortar and anchors.	
Material Properties	<ul style="list-style-type: none"> ■ Application type: MW WAP-zh and DI according to DIN 4108-10 ■ Light weight for optimal handling on the construction site ■ Low dynamic stiffness for better sound insulation ■ Fast installation due to optimised dowel quantities ■ Two-sided coating ■ Panel can be glued by machine using the partial-surface method without pressed application ■ Quality-controlled according to DIN EN 13162 ■ Occupational health classification: free according to german regulations: "GefStoffV", "ChemVerbotsV" and "EC Directive 97/69 (Note Q)" 	
Colours	Insulation material: brown-yellow Coating: Base Coat side white, adhesive side white with coating-free stripes	
Storage	Dry, protected from moisture, do not expose to weather without protection.	
Technical Data	<ul style="list-style-type: none"> ■ Heat conductivity: ■ Resistance-count for diffusion μ (H₂O): ■ Raw density: ■ Melting point: ■ Adhesive tensile (pull-off) strength at right angle to the panel plane: ■ Dynamic stiffness: 	<p>$\lambda = 0.035 \text{ W/(mK)}$ rated value of thermal conductivity as per EN 12667 and/ or EN 12939</p> <p>$\lambda_D = 0.034 \text{ W/(mK)}$ nominal value of thermal conductivity as per EN 13162</p> <p>$\mu = 1$ as per DIN EN 13162</p> <p>$\rho = 85 \text{ kg/m}^3$ as per EN 1602 $\pm 15 \%$</p> <p>$\geq 1000 \text{ }^\circ\text{C}$</p> <p>TR7.5 as per DIN EN 13162</p> <p>$s' \leq 10 \text{ MN/m}^3$ (60 mm) $s' \leq 8 \text{ MN/m}^3$ (80 - 100 mm) $s' \leq 6 \text{ MN/m}^3$ (120 mm) $s' \leq 5 \text{ MN/m}^3$ (140 - 160 mm) $s' \leq 4 \text{ MN/m}^3$ (180 mm) $s' \leq 3 \text{ MN/m}^3$ (200 - 300 mm) as per DIN EN 29052-1</p> <p>- Length-related flow resistance: $r \geq 36 \text{ kPa}\cdot\text{s/m}^2$ (60 mm) $r \geq 39 \text{ kPa}\cdot\text{s/m}^2$ (80 mm) $r \geq 35 \text{ kPa}\cdot\text{s/m}^2$ (100 mm) $r \geq 30 \text{ kPa}\cdot\text{s/m}^2$ (120 - 300 mm) as per EN 29503</p>



Product No. 145

Thickness (mm)	Capatect MW-Dämmplatte 035 LIGHT 145	
	Format: 1.200 x 400 mm	
	Prod.-Nº. Edge: blunt	[m²] per shrink wrap packaging
60	145/06	1,92
80	145/08	1,44
100	145/10	0,96
120	145/12	0,96
140	145/14	0,96
160	145/16	0,96
180	145/18	0,96
200	145/20	0,96
220	145/22	0,48
240	145/24	0,48
260	145/26	0,48
280	145/28	0,48
300	145/30	0,48

Note The insulation material is not suitable for spiral anchors and mounting elements such as DoRondo-PE mounting anchors and ZyRillo mounting cylinders, which are only glued into the insulation material. Attachment parts are only fastened using suitable mounting elements.

Application

Substrates	Mineral substrates of new construction, solid old plasters, wood and board materials, as well as load-bearing old paints or coatings or in accordance with the specifications of the Allgemeine bauaufsichtliche Zulassung/ ETA.
Substrate Preparation	The substrate must be clean, dry and load-bearing. Dirt and substances with a separating effect (e.g. formwork oil) as well as protruding mortar burrs must be removed. Damaged, peeling coats of paint and textured plaster must be removed as far as possible. Hollow areas of plaster are to be removed and flush with the surface to be plastered. Highly absorbent, sanding or chalking surfaces must be thoroughly cleaned down to the solid substance and primed. The compatibility of any existing coatings with the adhesive mortar must be checked by an expert.
Consumption	1 m ² /m ²
Application Conditions	During application and in the drying phase, the ambient and substrate temperatures must not be substrate temperatures must not be below +5 °C and above 30 °C. In this context, we refer to DIN 18345, point 3.1.3 (unsuitable climatic conditions).
Installation	<p>Manual bonding: Due to the existing adhesive coating on the adhesive side, there is no need for press filling. Apply the system's adhesive compound in bead-dot method all around the edge, slab-centred in clumps on the marked panel rear side.</p> <p>- Adhesive contact area up to 200 mm ≥ 40 %; > 200 mm ≥ 50 %.</p> <p><u>Bonding of systems with hard coverings:</u> - Adhesive contact area ≥ 60 %.</p> <p>Machine bonding (partial surface method): Spray the system-related adhesive compound by machine onto the substrate in the form of vertical beads (adhesive contact area ≥ 50 %). 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 immediately pressed into the fresh adhesive mortar bed, floated in and pressed on. To avoid skin formation, only as much adhesive surface may be applied as can be covered immediately.</p>

Machine bonding (full-surface):

Spray the system-specific adhesive compound onto the substrate by machine to a maximum thickness of 10 mm. Immediately before applying the insulation boards, comb the adhesive mortar with a notched trowel (the width and depth of the teeth depends on the condition of the substrate). Immediately press the insulation boards into the fresh adhesive mortar bed, float them in and press them into place. To avoid skin formation, only apply as much adhesive surface as can be covered immediately.

Installation:

Glue the insulation boards at least 10 cm offset in a bond from bottom to top and press on well. If possible, interlock the insulation materials at the corners of the building. Do not apply adhesive to the joints of the boards. Ensure that the boards are laid flush and perpendicular. Fill any gaps ≤ 5 mm with Capatect filling foam B1 or larger gaps with insulation strips. A height offset at the board joints must be avoided. In case of transition joints between different types of substrate materials or in case of weatherboard joints, the insulation boards must bridge the joint line by at least 10 cm on both sides and be supported with a secure adhesive joint. The max. field sizes without field boundary joints for insulation thicknesses > 200 mm or the countersunk dowel variant must be observed according to the application document and/or the "Allgemeine bauaufsichtliche Zulassung" (national approval) or ETA. Protect insulation boards bonded to the façade surface from moisture and cover them with reinforcing compound for a short time. Damaged insulation boards must not be installed.

Two-layer installation:

The boards can be laid in one layer up to 300 mm and in two layers up to 300 mm. In the case of two-layer installation, insulation thicknesses from 60 mm to 180 mm can be combined as desired. The second layer must be glued in the joint offset to the first layer with a mineral adhesive mortar belonging to the system.

- Adhesive contact area up to 200 mm ≥ 40 %; > 200 mm ≥ 50 %.

Fastening:

When fixing in the surface, distances from the anchor shaft to the insulation board edge of 15 cm and from anchors to each other of 20 cm must be observed.

Depending on the anchor variant and insulation thickness, the application limits of the application document must be observed.

Flush with the surface:

The insulation boards can be fixed with approved Capatect Tellerdübeln (plate diameter 60 mm) or combined with Capatect Dübelscheibe 153 (plate diameter 90 mm).

- Position of the anchors: in the surface or surface and joint.

Recessed:

The insulation boards can be fixed with an approved plate anchor (e.g. Capatect Universaldübel 053) in combination with Capatect Thermozyylinder 154 and Capatect Universaldübel-Rondelle MW.

- Position of the anchors: in the surface or surface and joint.

Countersunk:

The insulation boards can be fixed with Capatect Universaldübel 053 in combination with Capatect Universaldübel-Rondelle MIW.

- Position of the anchors: in the surface.

- Maximum wind suction load: -2.02 kN/m².

- Insulation thickness: 60-200 mm

- Installation with Capatect Universaldübel-Tool Vario with 20 mm cutting plate.

Dowelling through the reinforcing fabric:

The insulation boards can be anchored through the reinforcement fabric with approved plate anchors (plate diameter 60 mm) after the application of the base coat.

Advice

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

Disposal

Approval

Customer Service Centre

Wear protective clothing (dustproof) and dust mask P1 when dust occurs. Wear protective goggles during mechanical processing (sawing, drilling, grinding, milling) and when working overhead.

Waste should be avoided by careful cutting and reuse. Nevertheless, dispose of small amounts of material residues according to EAK 170604 (insulation material).

Z-33.43-132
Z-33.46-1091
Z-33.46-1732
Z-33.47-859

Tel.: +49 6154 71-71710
Fax: +49 6154 71-71711
e-mail: kundenservicecenter@caparol.de

International Distribution: Please see www.caparol.com



Technical Information No. 145 · Issue: September 2022

All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.145 · Capatect MW-Dämmplatte
035 LIGHT 145 · Issued: January 2022