

Capatect PS Insulation Board 034

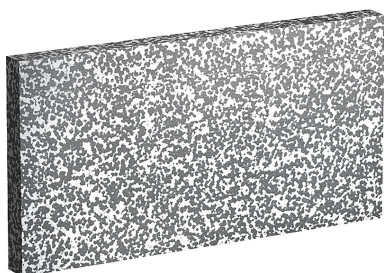
Dalmatian Ela 164

Polystyrene insulation boards according to DIN EN 13163 for the Capatect façade systems



Product Description

Field of Application	EPS façade insulation board fixed with adhesive or adhesive and anchors in the Capatect façade systems
Material Properties	<ul style="list-style-type: none"> ■ Application area according to DIN 4108-10: WAP ■ Improves sound insulation depending on the construction of the building component ■ Dimensionally stable and thermally insensitive ■ Quality controlled according to DIN EN 13163 and the quality guidelines for façade insulation boards of the "IVH-Industrieverband für Hartschaum" (Industry association for rigid foam) and "VDPM-Verband für Dämmsysteme, Putz und Mörtel e.V." (Association for Insulation Systems, Render and Mortar e.V.) ■ HBCD-free, CFC-free and HCFC-free ■ Glare-free application ■ EPS - DIN EN 13163 - T(1) - L(2) - W(2) - S(2) - P(3) - BS50 - TR80 - DS(N)2 - DS(70,-)2 - SS25 - GM500
Colours	Dalmatian (grey/white speckled)
Storage	Store in a dry place, protected from moisture and sunlight (shaded or in closed, roofed rooms). Do not expose to weather and UV rays for long periods without protection.
Technical Data	<ul style="list-style-type: none"> ■ Heat conductivity: λ_B: 0,034 W/(mK) rated value according to DIN 4108-4 λ_D: 0,033 W/(mK) nominal value according to DIN EN 12667 oder DIN EN 12939 ■ Resistance-count for diffusion μ (H₂O): $\mu = 30/70$ according to DIN EN 12086 ■ Water absorption: $\leq 0,2$ kg/m² according to DIN EN 12087 ■ Raw density: $\rho \leq 18$ kg/m³ according to DIN EN 1602 ■ Fire behaviour: Class E according to DIN EN 13501-1 Building material class B1 according to DIN 4102-1 ■ Dynamic stiffness: DIN EN 29052-1: $s \leq 20$ MN/m³, (≥ 80 mm) $s \leq 15$ MN/m³, (≥ 120 mm) $s \leq 10$ MN/m³, (≥ 160 mm) $s \leq 7$ MN/m³, (≥ 200 mm) ■ Tensile strength perpendicular to the plate plane: ≥ 80 kPa according to DIN EN 1607



Panel thickness (mm)	Insulation board format: 1000 x 500 mm	
	Prod.-No. Edge: blunt	Packing (m ²) in shrink film
80	164/08	3,0
100	164/10	2,5
120	164/12	2,0
140	164/14	1,5
160	164/16	1,5
180	164/18	1,0
200	164/20	1,0
Special thicknesses on request		

Application

Suitable Substrates

Mineral substrates of new construction, solid old render, wood and board materials, as well as stable old paints or coatings or substrates according to the specifications of the ETICS approvals.

Substrate Preparation

The substrate must be solid, dry, free of grease and dust and, if necessary, have sufficient load-bearing capacity for the use of anchors. Impurities and substances with a separating effect (e.g. formwork oil) as well as protruding mortar burrs must be removed. Damaged, peeling paints and textured renders must be removed as far as possible. Hollow areas of rendering must be knocked off and flush with the surface to be rendered. 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 must be checked by an expert.

Consumption

1 m²/m²

Application Conditions

The ambient and substrate temperatures must not be below +5 °C and above +30 °C during The application and in the drying phase.
in Germany: In this context, we refer to DIN 18345 item 3.1.3 (unsuitable climatic conditions).
Do not apply in direct sunlight.
Do not bring into contact with aromatic solvents.

Fitting of Insulation Boards

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.
Ensure that the boards are laid flush and plumb. Do not bring any adhesive mass into the board joints.
Avoid height offsets at the board joints.

Fill any gaps ≤ 5 mm with "Capatect-Füllschaum B1" or larger gaps with insulation strips.

In the case of transition joints between different types of substrate materials or in the case of weatherboard joints, the insulation boards must bridge the joint course by at least 10 cm on both sides and be supported with a secure adhesive joint. Expansion joints existing in the building must be taken over in the thermal insulation composite system.

Damaged insulation boards must not be installed.

For necessary constructive fire protection measures to maintain flame resistance, please refer to the respective approval / construction type approval or the explanations: "Technische Systeminformation Kompendium WDVS und Brandschutz des VDPM e.V." (Technical System Information Compendium ETICS and Fire Protection of VDPM e.V.).

Unrendered insulation boards on the façade must be protected from moisture and coated with reinforced base coat as soon as possible.

Bonding of Insulation Boards

Bead-dot method

Application of a circumferential bead at the edge of the panel and adhesive dots in the centre.
- Render systems - adhesive contact area ≥ 40 %.

Full-surface bonding

On flat substrates, the adhesive can be applied over the entire surface using a notched trowel/notched trowel. Immediately press, float and press the insulation boards against the substrate with the side to which the adhesive has been applied.

Bonding with adhesive foam

When using the adhesive foam "Capatect EcoFix", provide the EPS boards by applying an all-round bead close to the edge and with an enclosed bead in M- or W-shape.

- Render systems - adhesive contact area: $\geq 40\%$.

Machine bonding (partial surface method)

Apply the adhesive belonging to the system by machine onto the substrate 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 into the fresh adhesive bed, floated in and pressed on without delay. To avoid skin formation, only as much adhesive may be applied as can be directly laid with insulation boards.

- Render systems - adhesive contact area $\geq 60\%$.

Machine bonding (full-surface application)

Apply the adhesive to the substrate by machine up to a maximum thickness of 10 mm. Immediately before applying the insulation boards, comb the adhesive 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 bed, float them in and press them into place. To avoid skin formation, only apply as much adhesive as can be directly laid with insulation boards.

Two-layer installation

The boards can be laid in one or two layers up to 400 mm insulation thickness. For two-layer installation, the boards must have an insulation thickness of at least 60 mm and consist of the same EPS insulation material. The second layer must be glued in the joint offset to the first layer with a system-related mineral adhesive.

- Render systems - adhesive contact area: $\geq 40\%$.

Advice

On elasticised insulation boards, restrictions in the build-up of the render must be observed. The minimum thickness of the base coat layer should not be less than 4 mm. The render weight (base coat and finishing render) is limited to max. 15 kg/m².

Disposal

Waste should be avoided by careful cutting and reuse. Nevertheless, dispose of small material residues according to EAK 170203 (plastic) or 170604 (insulation material).

Rating for Sound Insulation

The weighted improvement of the airborne sound insulation $\Delta R_{w,ETICS}$, which is to be taken into account in the verification of the sound insulation (protection against external noise) for the ETICS is to be determined according to DIN 4109-34/A1.