

Capatect-Dalmatiner- Fassadendämmplatte 160

Exterior thermal insulating board to DIN EN 13 163
(expanded polystyrene EPS) for Caparol ETICS systems

two-tone: grey/white



Product Description

Field of Application

Exterior thermal insulating board for Caparol ETICS* System, to be fixed with adhesive mortar. Can be additionally fastened with anchors/dowels, if required.

* ETICS = External Thermal Insulation Composite System
Brit. term: EWI = External Wall Insulation
Am. term: EIFS = External Insulation and Finish System

Material Properties

- CE - Declaration: EPS EN 13163-T1-L2-W2-S2-P4-DS(70,-)2-DS(N)2-TR150
- Reaction to fire (German classification): B1 (DIN 4102-1)
Reaction to fire (European classification) EPS-boards: E / EPS-boards in ETICS: B
- Quality control according to BFA QS
- Non-combustible dripping
- Block-foamed, two-tone particle foam
- Seasoned / non-shrinking / dimensionally stable / non-ageing
- Water vapour diffusible
- Toxicologically harmless
- CFC-free, H-CFC-free as per CFC-Halogen-Prohibition-Regulation
- Free of formaldehyde

Colours

grey/white spotted

Storage

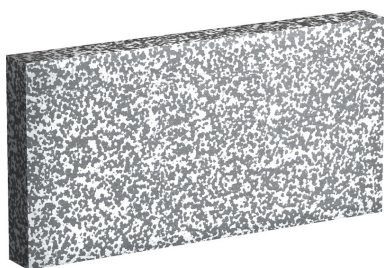
Dry and protected from moisture. Do not expose to ultraviolet light for a longer period.

Technical Data

- Heat conductivity: $\lambda_R = 0.034 \text{ W}/(\text{m} \cdot \text{K})$ as per DIN 4108
 $\lambda_D = 0.032 \text{ W}/(\text{m} \cdot \text{K})$ as per SIA 279
- Resistance-count for diffusion μ (H₂O): $\mu = 20/50$ as per DIN EN 12086
- Transverse tensile strength: $\sigma_z \geq 100 \text{ kPa}$ as per DIN EN 1607
- Shearing resistance: $\geq 70 \text{ kPa}$
- Raw density: approx. $15\text{-}18 \text{ kg}/\text{m}^3$ as per DIN EN 1602
- Irreversible elongation: $< 0,15 \%$

Product No.

160/01 to 160/30 (see below)



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Board Thickness [mm]	Packaging in shrinking foil [m ²] *	Size of thermal insulation board: 100 x 50 cm		
		Product No. and Edge		
		Blunt	Groove & Tongue	Ship-lapped
10	25.0	160/01	-	-
20	12.5	160/02	-	-
30	8.0	160/03	-	-
40	6.0	160/04	161/04	162/04
50	5.0	160/05	161/05	162/05
60	4.0	160/06	161/06	162/06
70	3.5	160/07	161/07	162/07
80	3.0	160/08	161/08	162/08
100	2.5	160/10	161/10	162/10
120	2.0	160/12	161/12	162/12
140	1.5	160/14	161/14	162/14
150	1.5	160/15	-	-
160	1.5	160/16	161/16	162/16
180	1.0	160/18	161/18	162/18
200	1.0	160/20	161/20	162/20
220	1.0	160/22	-	-
240	1.0	160/24	-	-
260	1.0	-160/26	-	-
280	1.0	160/28	-	-
300	1.0	160/30	-	-

Special thickness available on request

* The usable top surface or area reduces by approx. 3 % for "groove & tongue", by approx. 4 % for "ship-lapped" edges

Application

Suitable Substrates	Mineral substrates of new buildings or sound, solid existing render/plaster or paint coatings and other sound, even substrates. Also suitable for cement-bound wood-chip boards or V 100 to DIN 68 763, e. g. for prefabricated houses.
Substrate Preparation	Substrates must be clean, dry, adherent, and free from all substances, that may prevent good adhesion. Formwork oil residues, soiling and mortar burrs are to be removed. Remove unsound, flaking/peeling existing paint and textured render/plaster coatings as far as possible. Cut off render/plaster with hollow spaces and repair flush with the surrounding surface. Clean highly absorbent, sanding or chalking surfaces very accurately up to the solid substrate level and prime with Capatect-Konzentrat 111.
Method of Application	<p>Manual application of the adhesive: Apply adhesive material (corresponding to the ETIC system) thoroughly to the reverse side of the thermal insulating board, by using the "Bulb-Point-Method":</p> <p>A bulb of material, approx. 5 cm wide, surrounds the board and 3 blobs (palm of the hand sized) are to be applied in the middle of the board. Adjust the thickness of applied material (base height) to the tolerances of the substrate, such that $\geq 40\%$ surface area is stuck to the wall by adhesive mortar.</p> <p>Irregularities up to ± 1 cm can be equalised by this application method.</p> <p>If Capatect-Rollkleber 615 is used, the substrate must be absolutely planar. Apply the adhesive onto the complete surface with square-notched trowel or roll.</p> <p>Mechanical application of the adhesive: Apply the adhesive mortar mechanically onto the wall surface forming vertically oriented stripes (6 cm wide, 1 cm high, distance max. 10 cm) to achieve 60 % coverage after the immediate placing of the boards into the fresh mortar.</p> <p>Place the boards thoroughly from bottom to top touching each other (pressing together) and press on. The rows of insulating boards must be applied 50% staggered one beneath the other in order to avoid cross joints. Remove all adhesive passing out of the sides. Follow the alignment and vertical lines for installation.</p>

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Spaces that may occur should be filled with insulating-board strips or -where required- with Capatect-Füllschaum (Filling Foam) B1. Take care to avoid offset at the joints.

Board/Panel thickness > 100 mm:

Apply lamellar noncombustible thermal insulation boards made of mineral wool in the area of lintels, e. g. doors and windows, 20 cm high, to reach material class B1. A mineral wool barrier around the building for each two floors (20 cm high) might replace the individual opening barriers in ETICS with board thickness between 100 and 300 mm (Note: See national regulations!)

For transition-joints between different kinds of substrate materials or facing concrete (cladding) joints, the insulating boards should cover / "bridge" the joints run ≥ 10 cm wide on both sides. This should be realised with a very sound bonding.

For further information about the bonding of thermal insulating boards, please refer to Technical Information Nos. 185, 186M, 190 and 615, 133.

See separate Data Sheets for dowelling of thermal insulating boards according to national regulations.

Consumption
Application Conditions

per m²: 1 m² plus offcuts

Processing temperature during application and drying phase of adhesive: +5 °C to +30° C for material, substrate and surrounding air.

Avoid contact of boards with aromatic solvents.

Advice

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

See "Recommendations for Safe Use"

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities.

Careful cutting and reuse can prevent wastage. In any case, waste or material residue must be disposed of as per European Waste Code EWC 17 02 03 (synthetic material).

Particular attention should be made to removing wastage from site in compliance with standard construction site procedures.

Rating for Sound Insulation

Germany: Guidelines for recycling of material-cuttings (without any adhesive or surfacer on it) are available from Industrial Chambers of Commerce (*German Abbr.:* IHK).

For evidence of airborne sound suppression according to DIN 4109 see "Technische Systeminformation 7", Sound Insulation, of German Professional Association WDVS.

Logo: Ü symbol

Approvals and assessments

Z-33.41-130

Z-33.43-132

Z-33.46-1091

Z-33.47-859

Z-33.49-1071

Z-33.84-995

ETA-07/0184

ETA-10/0160

ETA-12/0383

For Declaration of performance according to ETA see www.caparol.de

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