## Capatect-PS-Fassadendämmplatte 600

Exterior thermal insulating board to DIN EN 13 163 (EPS), made of expanded polystyrene hard-foam, German type: EPS 040 WDV



	Product Description	
Field of Application	Exterior heat insulating boards/panels for Cap embedded into the adhesive bedding. Can add	atect ETICS* System B to be ditionally be fastened with dowels, if necessary.
	* ETICS = External Thermal Insulation Compo Brit. term: EWI = External Wall Insulation Am. term: EIFS = External Insulation and Fir	nish System
Material Properties	<ul> <li>Reaction to fire: German class B1 (DIN 410)</li> <li>Type: EPS 040 WDV (ETICS to DIN V 4108)</li> <li>Quality control according to BFA QS</li> <li>Block-foamed particle foam</li> <li>Non-combustible dripping</li> <li>Seasoned: Non-shrinking and dimensional</li> <li>Non-ageing</li> <li>Diffusion-capable</li> <li>Toxicologically harmless</li> <li>CFC-free foam system as per CFC-Haloge</li> <li>Free of formaldehyde</li> <li>Easy to handle</li> </ul>	02) schwer entflammbar (flame-retardant). 3-10 – guideline IVH/FV WDV –) ly stable n-Prohibition-Regulation
Colours	White	
Storage	Dry. Protect from moisture and ultra-violet rays allowed).	s to avoid yellow staining (no long-term exposure
Technical Data	<ul> <li>Heat conductivity group:</li> <li>Heat conductivity:</li> <li>Resistance-count for diffusion µ (H<sub>2</sub>O):</li> <li>Transverse tensile strength:</li> <li>Shearing resistance:</li> <li>Raw density:</li> <li>Irreversible elongation:</li> </ul>	040 $\lambda_R = 0.040 \text{ W/(m} \cdot \text{K}) \text{ as per DIN 4108}$ $\lambda_D = 0.038 \text{ W/(m} \cdot \text{K})$ $\mu = 20/50 \text{ as per DIN EN 12086}$ $\sigma_z \ge 100 \text{ kPa as per DIN EN 1607}$ $\ge 100 \text{ kPa as per DIN EN 12 090}$ 15–20 kg/m <sup>3</sup> as per DIN EN 1602 $\le 0.15 \%$





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Board Thicknes [ mm ]	Packaging in shrinking foil [ m <sup>2</sup> ]	Size of thermal insulation board: 100 x 50 cm		
	*	Product No. and Edge		
		Blunt	Groove & Tongue	Ship-lapped
10	25.0	600/01		
20	12.5	600/02		
30	8.0	600/03		
40	6.0	600/04	601/04	602/04
50	5.0	600/05	601/05	602/05
60	4.0	600/06	601/06	602/06
70	3.5	600/07	601/07	602/07
80	3.0	600/08	601/08	602/08
100	2.5	600/10	601/10	602/10
120	2.0	600/12	601/12	602/12
140	1.5	600/14	601/14	602/14
160	1.5	600/16	601/16	602/16
180	1.0	600/18	601/18	602/18
200	1.0	600/20	601/20	602/20
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				
Especially for Passive Houses				
300	1.0	600/30	Standard elements 100 x 50 cm	
300	1.0	600/30 E	Corner eleme 80 x \$	ent side piece 50 cm

	Application
Suitable Substrates	Mineral substrates of new buildings or sound, solid existing coatings and other sound, even substrates Also suitable for cement-bound wood-chip boards or wood-chip boards "V 100" to DIN 68 763, e.g. for precast buildings.
Substrate Preparation	Substrates must be clean, dry, adherent, sound, and free from all substances, that may prevent good adhesion, e.g. formwork oil residues. 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 cavities having no sufficient adhesion to the substrate and repair to match the surrounding surface. Clean highly absorbent, sanding or chalking surfaces thoroughly up to the solid substrate level and prime with Capatect-Konzentrat 111 (concentrate primer).
Method of Application	Apply adhesive material (corresponding to the ETICS system) thoroughly to the reverse-side of the heat insulating board, by using the "Bead-Point-Method". A bead 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 to the tolerances of the substrate, such that $\geq$ 40% surface area is in contact with adhesive.
	Irregularities up to $\pm 1$ cm can be equalised by this application method.
	If adhesive Capatect-Rollkleber 615 is used, the substrate must be absolutely even (planar). Apply the adhesive onto the complete surface with square-notched trowel or roller.
	Place the boards thoroughly from bottom to top touching each other (pressing together) with slight lateral movement and press on. Avoid the penetration of adhesive into joints. The rows of insulating boards must be applied 50% staggered one beneath the other. Follow the alignment and vertical lines for installation.
	Joint spaces that may occur should be filled with insulating board strips or up to < 5 mm width with Capatect-Füllschaum B1 (filling foam). Take care to avoid offset at the joints.
	Board thickness > 100 mm: See national regulation for keeping the fire Class B1. Germany: non- combustible mineral-fibre boards must be arranged in a lamellar form over the lintel area of openings in the façade (e.g. windows, doors, etc.) or as fascia arround the entire building (see application manual).

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	For transition joints between different types of substrate materials or facing concrete (cladding) joints, the insulating board joints must be bridged 10 cm wide on both sides. These should be thoroughly bonded with an adhesive (provide for a safe bonding).
	For further information concerning the bonding of thermal insulating boards see also Technical Information of adhesive mortars.
Consumption	per m <sup>2</sup> : 1 m <sup>2</sup> plus offcut
Application Conditions	<b>Processing temperature:</b> + 5 °C to + 30 °C for material, substrate and ambient air during application and curing. Avoid contact of boards with aromatic solvents.
Insulation for Passive Houses	For thermal insulation of passive houses 300 mm thick thermal insulating boards are used. For an accurate application of corners special pre-fabricated elements are available. These elements must be bonded first and aligned exactly. Then the flat surfaces can be insulated. It is recommended to use a chalk line as a well proven tool. Boards must be additionally fixed with dowels, if they are to be applied without a lower plating (e.g.
	onto existing perimeter insulation).
	Advice
Disposal	Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures. European Waste Code: Careful cutting and reuse can prevent wastage. In any case, waste or material residue must be disposed of as per <b>EWC 17 02 03</b> (synthetic material).
	Germany: Guidelines for recycling of material-cuttings (without any adhesive or surfacer on it) are available via the Industrial Chambers of Commerce ( <i>German Abbr.:</i> IHK).
Logo: Ü symbol	Approvals and assessments:         Z-33.41-130         Z-33.43-132         Z-33.47-859         Z-33.46-1091         Z-33.84-995         Z-33.49-1071         Z-33.84-1018         ETA-07/0184         ETA-10/0160
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