

Capatect MW-Brandriegel 152

Universal fire barrier for use in flame-retardant Exterior Thermal Insulation Composite Systems based on EPS insulation boards



Product Description

Field of Application	Non-combustible facade insulation board for use as fire barrier in ETICS based on EPS insulation boards. To be fixed with adhesive mortar and anchors. Not for use on timber frame.	
Material Properties	<ul style="list-style-type: none"> ■ Reaction to fire: German classification A1 as per DIN EN 13501, non-combustible ■ Application type WAP-zg ■ Insulation boards format: Format I / 1200 x 200 mm ■ No initial mortar priming required ■ White coated front side for a better adhesion of the reinforcing layer ■ Edges: blunt ■ Occupational health classification (Germany): free as per GefStoffV, ChemVerbotsV and EU Directive 97/69 (Remark Q) 	
Colours	Insulation wool brownish yellow White coating on front side. White with uncoated stripes on back side towards the adhesive mortar side.	
Storage	Dry, protected from moisture; avoid unprotected exposure to weather.	
Technical Data	<ul style="list-style-type: none"> ■ Heat conductivity: ■ Resistance-count for diffusion μ (H₂O): ■ Compressive stress (compression: 10%): ■ Temperature resistance: ■ Raw density: ■ Melting point: ■ Certified quality control: ■ Adhesive tensile (pull-off) strength at right angle to the panel plane: 	<p>$\lambda_R = 0,035$ W/(m·K) as per DIN 4108-4</p> <p>$\mu \approx 1$ as per DIN EN 12086</p> <p>≥ 20 kPa as per DIN EN 826</p> <p>up to 250 °C for a short time</p> <p>approx. 105 kg/m³ ± 15 %</p> <p>> 1000 °C as per DIN EN 13501-1</p> <p>by FIW in Munich</p> <p>≥ 7.5 kPa as per DIN EN 1607</p>



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Product No.

Thickness [mm]	Prod.-N°	[m ²] per hood-shrunk bundle
100	152/10	0.96
120	152/12	
140	152/14	
160	152/16	
180	152/18	
200	152/20	
220	152/22	0.48
240	152/24	
260	152/26	
280	152/28	
300	152/30	

Application

Suitable Substrates

Mineral substrates of new buildings or sound and solid existing render or paint coats.

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 existing paint and textured render coatings as far as possible. Cut off render 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 Sylitol-Konzentrat 111.

Consumption

per 1 m²: 1 m² plus offcuts

Application Conditions

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

Bonding of Insulation Boards

Manual application of the adhesive: Apply adhesive material (corresponding to the ETIC system) thoroughly to the reverse side of the thermal insulation board using a notched trowel for full covering to achieve full-faced adhesion to the substrate.

Mechanical application of the adhesive (full-faced fixing): Apply the adhesive mortar mechanically onto the wall surface to achieve a 10 mm thick coverage. Smooth the fresh mortar with a notched trowel (notches depending on surface roughness) just before placing the boards into the fresh mortar. Place the insulation boards immediately into the fresh adhesive mortar bed by slightly moving sideways and press on. To avoid skinning, only as much adhesive surface may be submitted, as can be immediately covered.

Mechanical fixing of the insulating boards by dowels: After curing of the adhesive, the fire barrier in the plinth area is to fix additionally by dowels with a minimum of 3 dowels per board. The requirements for the position and arrangement of the dowels are given in the underlying general approval or assessment.

In the protection zone "room fire" the boards are to be fixed with min. 2 dowels per insulation board. Project-specific calculations can lead to higher numbers of dowels. Further information to the dowel placement in the corresponding general building approvals and relevant dowel tables must be observed.

Already fixed insulation boards are to protect against moisture and covered with reinforcing compound in a short term. Voids or open board joints must be filled with insulation strips.

Advice

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

Wear protective clothing (dust-tight) and dust mask P1 when occurring dust. For mechanical processing (sawing, drilling, grinding, milling) and in case of overhead work wear goggles. See also: guidelines of BG BAU (professional insurance) for processing mineral wool insulation (in German).

Disposal

Waste must be avoided by careful cutting and re-use. Nevertheless resulting low material residues to be disposed as per EWC 170604 (insulation material).

Approval

Approvals and assessments

Z-33.43-132, Z-33.49-1071, Z-33.41-130, Z-33.42-131, Z-33.46-1091

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