



## TECHNICAL DATA SHEET

# KEIM PERIMETER-DÄMMPLATTE-SA

## 1. PRODUCT DESCRIPTION

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White EPS rigid foam with waffle structure in accordance with DIN EN 13163 and general construction type approval Z-23.33-1666  
Z-23.33-1712, edge formation butt (from 220 mm with stepped rebate).

## 2. FIELD OF APPLICATION

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Base and perimeter insulation board, also in combination with KEIM ETIC systems.

Generally approved by the building authorities for: exterior walls

Suitable for: building sealing; Masonry or concrete, rendered and unrendered; panel material in timber construction; organic substrates

Application type according to DIN 4108-10 PW; WAS for exposure to soil moisture and non-accumulating seepage water.

Not suitable for: existing ETICS substrates.

## 3. PRODUCT PROPERTIES

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- with very good thermic values
- especially economical
- easy to use
- HBCD-free (with new flame retardant)
- free of CFC, CHC and aromatic hydrocarbons
- fire behaviour: hardly inflammable B1 according to 4102
- Produced in automatic moulding machines.
- dimensionally accurate and non-shrinking
- form- and pressure-stable
- resistant to aging
- resistant to splashing water and moisture
- The insulation panels comply with the high standards of the VDPM e.V. (association for insulation systems, renders and mortars)
- Externally monitored by Forschungsinstitut für Wärmeschutz e.V. München

### MATERIAL CHARACTERISTICS:

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|---|--|
| - CE marking code:                                      | EPS-EN 13163-L3-W3-T2-S5-P5-CS(10)150-BS200-DS(N)2-DS(70,-)3-DLT(2)5-WL(T)3-WD(V)5 |
| - Rated value of thermal conductivity:                  | 0.035 W/mK   |
| - Nominal value of thermal conductivity $\lambda_D$ :   | 0.033 W/mK   |
| - Rated value of thermal conductivity (against ground): | 0,039 W/mK   |
| - Panel size:   | 1000 x 500 mm  |
| - Panel thickness:                                      | 60 - 300 mm  |
| - Edge formation:                                       | square   |
| - Compressive stress at 10% compression:                | CS(10) $\geq$ 150 kPa  |
| - Flexural strength:                                    | $\geq$ 150 kPa   |
| - Thickness tolerance:                                  | T1 $\pm$ 2 mm  |

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- Width tolerance:	W1 ±3 mm
- Length tolerance:	L1 ±1 mm
- Squareness:	S1 ±5 mm/m
- Planarity:	P4 = 5 mm
- Colour shade:	white

### 4. APPLICATION INSTRUCTIONS

#### SUBSTRATE PREPARATION:

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues. The permanent compatibility of any existing coatings with the adhesive mortar must be examined by an expert. Building sealing in accordance with DIN 18531 to DIN 18535 shall be provided. Adhesion tests must be carried out on cold self-adhesive plastic sealing membranes using suitable adhesives. The panel must not be used in the area of pressing water and in the capillary fringe of groundwater.

#### APPLICATION CONDITIONS:

Ambient and substrate temperature during application and drying from  $\geq 5$  °C to  $\leq 30$  °C. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

#### APPLICATION:

Cut to size with insulation knife or hot wire cutter.

#### GLUING:

Apply the system-specific adhesive mortar to the insulation panels using the clod method with 6 adhesive clods, so that an adhesion of min. 40 % is ensured. In the base area, the insulation panels are to be adhered using the bead-dot method. General instruction with regard to gluing: Do not apply adhesive to the panel joints. Do not create an insulation panel joint over a joint in the substrate underneath.

#### DOWELING:

Check the adhesion of the insulation panels after at least 3 days. Insulation panels that are not bonded or damaged must be replaced. In the base area, the perimeter and base insulation panels can additionally be mechanically fastened with ETICS fasteners approved by the building authorities. The minimum number of fasteners is 4 fasteners /m<sup>2</sup>. In the area of the vertical structural sealing (up to 150 mm above ground level), the insulation panels must not be dowelled.

#### REINFORCEMENT:

Extensive reinforcement of the perimeter insulation panels below ground level should be avoided as far as possible. A slight integration of the facade reinforcement in the area in contact with the ground is permissible. The application of the top coat render ends at the transition to the ground level. Thickness of the reinforcement layer should be min. 3 -15 mm. In areas in contact with the ground, KEIM Indulastic-P is applied as moisture protection on mineral reinforcing mortars and renders. Above ground level, KEIM Indulastic-P is applied as a 50 mm wide bead to the top coat render. KEIM Indulastic-P can be painted over with the exterior paints that are part of the system. Below ground level, a dimpled foil or a suitable non-woven fabric is used on to protect against damage.

### 5. PACKAGING / TECHNICAL DATA

Panel size [mm]	Panel thickness [mm]	edge	Rated value thermal conductivity [W/mK]	m <sup>2</sup> per bundle
1000 x 500	60	square	0,035	4.0
1000 x 500	70-80	square	0,035	3.0
1000 x 500	100-120	square	0,035	2.0

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Panel size [mm]	Panel thickness [mm]	edge	Rated value thermal conductivity [W/mK]	m <sup>2</sup> per bundle
1000 x 500	140-160	square	0,035	1.5
1000 x 500	180-200	square	0,035	1.0
1000 x 500	220*	half lapped	0,035	1.0
1000 x 500	240*	half lapped	0,035	1.0
1000 x 500	260*	half lapped	0,035	1.0
1000 x 500	280*	half lapped	0,035	1.0
1000 x 500	300*	half lapped	0,035	1.0

\* Delivery time on request

### 6. STORAGE

max. storage time	Storage conditions
no maximum storage time	dry protected from heat and direct sun.

Transport packaging is not sufficient weather protection.

### 7. DISPOSAL

Waste code: 17 06 04

### 8. SAFETY INSTRUCTIONS

No particular indications.

The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.



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