



TECHNICAL DATA SHEET

EPS-GRAU 032 WDV

1. PRODUCT DESCRIPTION

Grey expanded EPS rigid foam according to DIN EN 13163.

2. FIELD OF APPLICATION

Facade insulation boards for KEIM external thermal insulation composite systems according to system approval: Z-33.43-185; Z-33.4.1-45; Z-33.47-727; Z-33.46-1187

Generally approved by the building authorities for: exterior walls; window and door reveals.

Suitable for: Masonry or concrete, rendered and unrendered; panel material in timber construction; ETICS upgrade system.

Application type according to DIN 4108-10 WAP.

The complete ETIC system is flame-retardant B1 or normally flammable B2 according to DIN 4102. Permissible building height according to the State Building Code.

Not suitable for: horizontal and inclined surfaces exposed to weathering; cold self-adhesive plastic membranes; metallic substrates; substrates with salt efflorescences; saponifiable existing substrates.

3. PRODUCT PROPERTIES

- with improved heat protection
- especially economical
- HBCD-free (with new flame retardant)
- free of CFC, CHC and aromatic hydrocarbons
- fire behaviour: hardly inflammable B1 according to 4102
- dimensionally accurate and non-shrinking
- form- and pressure-stable
- resistant to aging
- Externally monitored by Forschungsinstitut für Wärmeschutz e.V. München
- The insulation panels comply with the high standards of the VDPM e.V. (association for insulation systems, renders and mortars)

MATERIAL CHARACTERISTICS:

- CE marking code:	EPS-EN 13163-T2-L2-W2-S2-P-DS(70,-)2-DS(N)2-TR100
- Rated value of thermal conductivity:	0.032 W/mK
- Nennwert der Wärmeleitfähigkeit λ_D :	0.031 W/mK
- Panel size:	1000 x 500 mm
- Panel thickness:	20 - 400 mm
- Dimensional stability at normal temperature:	DS (N) 2 \pm 0,2 %
- Irreversible length change:	\leq 0,15 %
- Thickness tolerance:	T2 \pm 1 mm
- Width tolerance:	W2 \pm 2 mm
- Length tolerance:	L2 \pm 2 mm
- Squareness:	S2 \pm 2 mm/m
- Planarity:	P \pm 3 mm/m
- Colour shade:	grey

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

The insulation panels are butted tightly and glued in a bond from bottom to top. Apply the appropriate adhesive mortar to the insulation panels using the bead-and-dot method or over the entire surface. Push the boards into place. At the edges of the building, the insulation panels are glued offset. Do not create an insulation panel joint over a joint in the substrate underneath. After a sufficient setting time of the adhesive, apply the mixed, system-specific reinforcing mortar evenly to the insulation panels, preferably with a 10 mm toothed trowel. Embed the system-specific Glasfaser-Gittermatte (glass fibre mesh), overlap the edges by 10 cm and fill wet-in-wet with system-specific reinforcing mortar. The system-specific Glasfaser-Gittermatte should be embedded in the middle (layer thicknesses up to 6 mm) or in the upper third (layer thicknesses from 6 mm). Closing of unavoidable defects and joints up to 5 mm wide with Iso Top Thermofoam B1 is permissible.

APPLICATION:

Cut to size with insulation knife or hot wire cutter.

5. PACKAGING / TECHNICAL DATA

Panel size [mm]	Panel thickness [mm]	edge	Rated value thermal conductivity [W/mK]	m ² per bundle
1000 x 500	20	dull	0,032	12.0
1000 x 500	30	dull rabbet	0,032	8.0
1000 x 500	40	dull rabbet groove and tongue	0,032	6.0
1000 x 500	50	dull rabbet groove and tongue	0,032	4.5
1000 x 500	60	dull rabbet groove and tongue	0,032	4.0
1000 x 500	70-80	dull rabbet groove and tongue	0,032	3.0
1000 x 500	90	dull rabbet groove and tongue	0,032	2.5
1000 x 500	100-120	dull rabbet	0,032	2.0

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Panel size [mm]	Panel thickness [mm]	edge	Rated value thermal conductivity [W/mK]	m ² per bundle
		groove and tongue		
1000 x 500	130-160	dull rabbet groove and tongue	0,032	1.5
1000 x 500	170-300	dull rabbet groove and tongue	0,032	1.0
1000 x 500	310-400	dull rabbet groove and tongue	0,032	0.5

Edge formation step seam and tongue and groove 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

EC WASTE CODE:

Waste code: 17 06 04

