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**European Technical Assessment Body  
for construction products**



## European Technical Assessment

**ETA-20/0005  
of 18 March 2025**

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the  
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

"BACHL EPS PerimeterDuo"

Product family  
to which the construction product belongs

Expanded polystyrene (EPS) foam boards as thermal  
insulation outside the waterproofing

Manufacturer

Karl Bachl Kunststoffverarbeitung GmbH & Co. KG  
Deching 3  
94133 Röhrnbach  
DEUTSCHLAND

Manufacturing plant

see Annex A

This European Technical Assessment  
contains

7 pages including 1 annex which form an integral part of  
this assessment

This European Technical Assessment is  
issued in accordance with Regulation (EU)  
No 305/2011, on the basis of

040773-00-1201

This version replaces

ETA-20/0005 issued on 29 September 2020

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## Specific Part

### 1 Technical description of the product

This European Technical Assessment applies to the thermal insulation boards of expanded polystyrene (EPS) with the designation “BACHL EPS PerimeterDuo”.

This European Technical Assessment applies to thermal insulation boards with a nominal thickness from 40 mm to 200 mm.

The thermal insulation boards “BACHL EPS PerimeterDuo” have a grooved surface on both sides (profile depth: 3 mm).

The thermal insulation boards can have a special edge treatment (shiplap, depth  $\geq 15$  mm).

The thermal insulation boards do not contain Hexabromocyclododecane (HBCD).

The European Technical Assessment has been issued for the product on the basis of agreed data/information, deposited with Deutsches Institut für Bautechnik, which identifies the product that has been assessed. The European Technical Assessment applies only to the product corresponding to this agreed data/information.

### 2 Specification of the intended use in accordance with the applicable European Assessment Document

The thermal insulation boards are intended to be used as external horizontal and vertical thermal insulation of in-ground constructions outside the waterproofing (non-structural application) not constantly exposed to groundwater or to long-term backwater.

The performance according to section 3 only applies if the thermal insulation boards are installed according to the manufacture's installation instructions and if they are protected from precipitation, wetting or weathering during transport and storage before installation.

Concerning the application of the thermal insulation boards, also the respective national regulations shall be observed.

Where the thermal insulation boards are fixed by using adhesives, only such adhesions shall be used, which are suitable for this purpose. The assessment of these fixings is not subject of this European Technical Assessment.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the thermal insulation boards of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.



Essential characteristic	Performance
length, width test acc. to EN ISO 29465:2022	$\pm 0,6 \%$ or $\pm 3 \text{ mm}^4$ (L(3) or. W(3) acc. to EN 13163)
Squareness on length and width test acc. to EN 824:2013	5 mm/m (S(5) acc. to EN 13163)
flatness test acc. to EN ISO 29468:2022	5 mm (P(5) acc. to EN 13163)
profiling and volume loss	no performance assessed
Deformation under specified compressive load and temperature conditions test acc. to EN 1605:2013 load: 40 kPa, temperature: $(70 \pm 1) ^\circ\text{C}$ time: $(168 \pm 1) \text{ h}$	$\leq 5 \%$ (DLT(2)5 acc. to EN 13163)
Dimensional stability under constant normal laboratory conditions test acc. to EN 1603:2013	DS(N)2 acc. to EN 13163
Dimensional stability under specified conditions test acc. to EN 1604:2013	DS(70,-)3 acc. to EN 13163
Tensile strength perpendicular to faces	No performance assessed
Bending strength test acc. to EN 12089:2013 (method B)	$\geq 200 \text{ kPa}$ (BS200 acc. to EN 13163)
Density test acc. to EN ISO 29470:2020	$30 \text{ kg/m}^3$ to $34 \text{ kg/m}^3$
Compressive stress at 10 % deformation test acc. to EN ISO 29469:2022	$\geq 200 \text{ kPa}$ (CS(10)200 acc. to EN 13163)
Compressive creep	No performance assessed

#### 4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 040773-00-1201, the applicable European legal act is: 1999/91/EC.

The system to be applied is:

System 3

<sup>4</sup> Whichever gives the biggest numerical tolerance.

**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 18 March 2025 by Deutsches Institut für Bautechnik

Frank Iffländer  
Head of Section

*beglaubigt:*  
Meyer

"BACHL EPS PerimeterDuo"

## **Annex A**

### **Manufacturing plants**

1. KARL BACHL Kunststoffverarbeitung GmbH & Co.KG  
Osterbachtal 1  
94133 Röhrnbach  
Germany
2. KARL BACHL Kunststoffverarbeitung GmbH & Co.KG  
Isotexstraße 1  
86899 Landsberg am Lech  
Germany
3. KARL BACHL Kunststoffverarbeitung GmbH & Co.KG  
Georg-Kramer-Str. 7-9  
35216 Biedenkopf  
Germany