



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-18/0435 of 31 October 2019

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	Nivoperl, Butler macht`s! paraffinharzummantelte Ausgleichs-Schüttung, Prima paraffinharzummantelte Ausgleichsschüttung, Hawa Perlit Bachl
Product family to which the construction product belongs	thermal insulation product made of loose fill expanded perlite
Manufacturer	KNAUF AQUAPANEL GmbH Kipperstraße 19 44147 Dortmund DEUTSCHLAND
Manufacturing plant	plant 1 (see Annex 1)
	plant 2 (see Annex 1)
	plant 3 (see Annex 1)
This European Technical Assessment contains	5 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	EAD 040461-00-1201

Deutsches Institut für Bautechnik Kolonnenstraße 30 B | 10829 Berlin | GERMANY | Phone: +49 30 78730-0 | Fax: +49 30 78730-320 | Email: dibt@dibt.de | www.dibt.de



European Technical Assessment ETA-18/0435 English translation prepared by DIBt

Page 2 of 5 | 31 October 2019

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.



Page 3 of 5 | 31 October 2019

European Technical Assessment ETA-18/0435 English translation prepared by DIBt

Specific part

1 Technical description of the product

This European Technical Assessment applies to the thermal insulation product made of loose fill expanded perlite (EP) with the following designations, hereinafter referred to as thermal insulation.

- Nivoperl
- Butler macht's! paraffinharzummantelte Ausgleichs-Schüttung
- Prima paraffinharzummantelte Ausgleichsschüttung
- Hawa Perlit Bachl

The thermal insulation material is a granular, inorganic bulk good of grain sizes 0 - 6 mm made of thermally blown perlite.

The perlite grains are provided factory-made with a wax/paraffin resin coating.

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 products corresponding to this agreed data/information.

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

The thermal insulation material can be used in the compressed state as interior insulation of ceilings or floor slabs (on the top) under screed without requirements for protection against noise.

The performance according to section 3 only applies if the insulation product is installed according to the manufacture's installation instructions dry and in a compressed state with a compression at least 10% by volume in accordance with the bulk density given in the ETA and if it is protected from precipitation, wetting or weathering in built-in state and during transport, storage and installation.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the insulation product of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, 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.

3 Performance of the product and references to the methods used for its assessment

For sampling, conditioning and testing the provisions of the EAD No 040461-00-1201 "Thermal insulation product made of loose fill expanded perlite (EP)" apply.

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class E
test acc. to EN ISO 11925-2:2010*	acc. to EN 13501-1:2007 + A1:2009
Determination of the organic content test acc. to EN 13820 (determination of combustion loss)	No performance assessed.
* Using a suitable sample holder in line with EN ISO 11925-2 in which the loose sample material can not fall out.	



Page 4 of 5 | 31 October 2019

European Technical Assessment

ETA-18/0435

/0435

English translation prepared by DIBt

3.2 Hygiene, health and the environment (BWR 3) Not applicable.

3.3 Energy economy and heat retention (BWR 6)

Wesentliches Merkmal	Leistung
Thermal conductivity (in compressed state) test acc. to EN 12667:2001	Declared value of thermal conductivity
acc. to EN 14316-1:2004	$\lambda_{D (23/50)} = 0.058 \text{ W/(m \cdot K)}^{*}$
Loose bulk density (not in compressed state) test acc. to EN 1097-3:1998	140 kg/m³ (± 15 %)
Particle size distribution	No performance assessed.
Water repellency	No performance assessed.
Crushing resistance	No performance assessed.
Water vapour diffusion resistance factor acc. to EN 14316-1:2004	μ = 3
Settlement	No performance assessed.
Compressive stress at 10 % deformation test acc. to EN 826:2013	≥ 90 kPa **

humidity, representative of at least 90% of production with a 90% confidence level.

* Test samples compressed before testing approx. 10% by volume, compressed sample height approx. 50 mm.

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

In accordance with the European Assessment Document No 040461-00-1201 "Thermal insulation product made of loose fill expanded perlite (EP)" the legal basis is: Commission Decision 1999/91/EC.

The system to be applied is: system 3.

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 31 October 2019 by Deutsches Institut für Bautechnik.

Maja Tiemann Head of Department *beglaubigt:* Getzlaff



ANNEX 1

Manufacturing plant

- plant 1 KNAUF AQUAPANEL GmbH Kipperstraße 19 44147 Dortmund DEUTSCHLAND
- plant 2 KNAUF AQUAPANEL GmbH Ruhrstraße 8 86633 Neuburg/Donau DEUTSCHLAND
- plant 3 KNAUF AQUAPANEL GmbH Hauptstraße 102 39345 Bülstringen DEUTSCHLAND