



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-17/0500 of 26 June 2020

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	"Staubex plus"
Product family to which the construction product belongs	"Thermal insulation product made of loose fill expanded perlite"
Manufacturer	Knauf Performance Materials 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	6 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
This version replaces	ETA-17/0500 issued on 25 January 2019

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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 designation "Staubex plus", hereinafter referred to as thermal insulation.

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 bitumen 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	No performance assessed.
test acc. to EN 13820 (determination of combustion	
loss)	
* Using a suitable sample holder in line with EN ISO 11925-2 in which the loose sample material can not fall out.	



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3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance	
Content, emission and/or release of dangerous substances		
Substance/s classified as EU-cat. Carc. 1A and/or 1B ^a	The product does not contain these	
Substance/s classified as EU-cat. Muta. 1A and/or 1B ^a	dangerous substances actively used. ^b However, the product may contain PAH and B[a]P as residues (see below).	
Substance/s classified as EU-cat. Acute Tox. 1, 2 and/or 3; Repr. 1A and/or 1B; STOT SE 1 and/or STOT RE 1 ^a		
PAH and B[a]P	The content of these residues was tested in the raw material: ^c PAH < 50 mg/kg B[a]P < 5 mg/kg	
Use scenarios regarding BWR 3 in accordance with EOTA TR 034: IA2		
^a In accordance with Regulation (EC) No 1272/2008.		

b. Assessment based on the detailed manufacturers' statements on dangerous substances.

c. Statement according to test report.

3.3 Energy economy and heat retention (BWR 6)

Wesentliches Merkmal	Leistung
Thermal conductivity	Declared value of thermal
test acc. to EN 12667:2001,	conductivity
acc. to EN 14316-1:2004	$\lambda_{D (23/50)} = 0,061 \text{ W/(m \cdot K)}^*$
Loose bulk density	120 kg/m ³ to 160 kg/m ³
test acc. to EN 1097-3:1998	
Particle size distribution	No performance assessed.
Water repellency	No performance assessed.
Crushing resistance	No performance assessed.
Water vapour diffusion resistance factor	μ = 3
acc. to EN 14316-1:2004	
Settlement	No performance assessed.
Compressive stress at 10 % deformation	≥ 70 kPa
test acc. to EN 826:2013	
* Declared value of thermal conductivity for a moisture cor	ntent of the insulation product at 23 °C/50% relative

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

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.

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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 26 June 2020 by Deutsches Institut für Bautechnik

Maja Tiemann Head of Department beglaubigt: Getzlaff



"Staubex plus"

Annex 1

Manufacturing plants

- Plant 1 Knauf Performance Materials GmbH Kipperstraße 19 44147 Dortmund DEUTSCHLAND
- Plant 2 Knauf Performance Materials GmbH Ruhrstraße 8 86633 Neuburg/Donau DEUTSCHLAND
- Plant 3 Knauf Performance Materials GmbH Hauptstraße 102 39345 Bülstringen DEUTSCHLAND