Deutsches Institut für Bautechnik

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Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments

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European Technical Assessment

ETA-19/0735 of 18 February 2020

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General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	Meurin-aggregate concrete masonry units (ligthweight aggregates)
Product family to which the construction product belongs	Aggregate concrete masonry units (lightweight aggregates) with specific moisture conversion factor Fm
Manufacturer	Trasswerke Meurin Betriebsgesellschaft mbH Kölner Straße 17 56626 Andernach DEUTSCHLAND
Manufacturing plant	Manufacturing plant 630
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 170006-00-0305

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Specific part

1 Technical description of the product

The construction products "PUMIX-P-HW" are aggregate concrete masonry units (ligthweight aggregates), category I according to EN 771-3. The construction products are made of cement regarding to EN 197-1, aggregates regarding to EN 13055 and if necessary admixtures.

The construction products contain a mass and volume fraction of ≤ 1,0 % of homogeneously distributed organic materials.

The aggregate concrete masonry units according to EN 771-3 show different types and dimensions (see annex 1). In addition the performance of the characteristic of a specific moisture conversion factor is given.

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

The intended uses are different types of load bearing and non-load bearing applications in all forms of walling including single leaf, cavity, partitions, retaining, basement and general use below ground level, including walling for fire protection, thermal insulation, sound insulation according to EN 771-3. The products are particularly used for walls with specific requirements to thermal insulation.

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

3.1 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance
Dimensions	see Annex 1
Dimensional tolerances	see Annex 1
Configuration	see Annex 1
Compressive strength	no performance assessed
Dimensional stability	no performance assessed
Shear bonds strength	no performance assessed
Flexural bond strength	no performance assessed

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class A1

3.3 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water absorption	no performance assessed
Water vapour permeability	no performance assessed

3.4 Protection against noise (BWR 5)

Essential characteristic	Performance
Direct airborne sound insulation	no performance assessed

3.5 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal resistance	no performance assessed
Gross dry density	see Annex 1
Net dry density	no performance assessed
Limit deviations of density	see Annex 1
Specific moisture conversion factor F_m	see Annex 1

3.6 General aspects

The verification of durability and serviceability is only ensured if the specifications of the technical file of the manufacturer are kept.

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

In accordance with EAD No. 170006-00-0305, the applicable European legal act is: 97/740/EC
The system to be applied is: 2+

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 February 2020 by Deutsches Institut für Bautechnik

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Head of Department

beglaubigt:
Apel

Deutsches Institut für Bautechnik DIBt

"PUMIX-P-HW"-Plan-Vollblöcke

Aggregate concrete masonry units (lightweight aggregates) of category I load bearing or non-load bearing walls

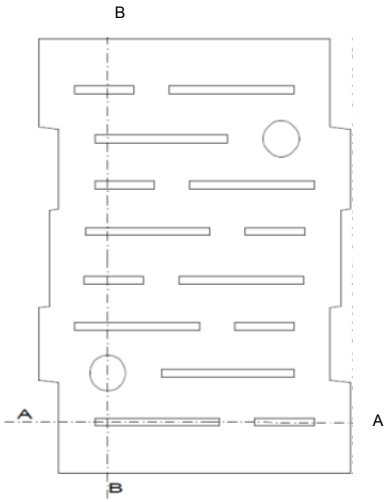
Dimensions	length l =	245 mm
	width w =	365 mm
	height h =	249,0 mm
Tolerances Tolerance category D4	length l =	+1/-3 mm
	width w =	+1/-3 mm
	height h =	± 1,0 mm
Flatness of bed faces		≤ 1,0 mm
Plane parallelism of bed faces		≤ 1,0 mm
Configuration	Example see below	
Reaction to fire	Class	A1
Specific moisture conversion factor F_m		1,05
Gross dry density Mean value		
minimum	kg/m³	405
maximum	kg/m³	450
Individual value		
minimum	kg/m³	355
maximum	kg/m³	500

alternative

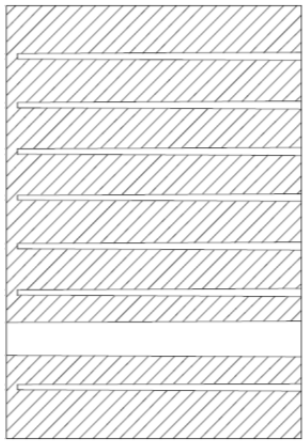
247	495	497	497
425	300	175	240

alternative

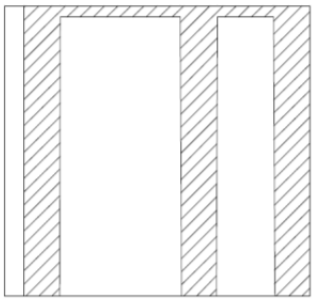
455 500	505 550	555 600	605 650	655 700	705 800
405 550	455 600	505 650	555 700	605 750	655 900



bottom view



B-B



A-A

Meurin-aggregate concrete masonry units (ligthweight aggregates)	Annex 1
Essential characteristics and configuration of "PUMIX-P-HW"-Plan-Vollblöcke	