

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-21/0500
of 12 July 2021

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

Liaplan-aggregate concrete masonry units (lightweight
aggregates)

Product family
to which the construction product belongs

Aggregate concrete masonry units (lightweight
aggregates) with specific moisture conversion factor Fm

Manufacturer

Liaplan Nord GmbH
Ziegelei 6
14798 Havelsee OT Briest
DEUTSCHLAND

Manufacturing plant

Herstellungsbetrieb 798

This European Technical Assessment
contains

5 pages including 1 annex which forms 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 "Liaplan-Steine" are aggregate concrete masonry units (lightweight aggregates), category I according to EN 771-3. The construction products are made of cement regarding to EN 197-1, aggregates according to EN 12620 and/or EN 12620 and if necessary admixtures.

The construction products contain a mass and volume fraction of $\leq 1,0\%$ 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 12 July 2021 by Deutsches Institut für Bautechnik

Bettina Hemme
Head of Section

beglaubigt:
Hannoun

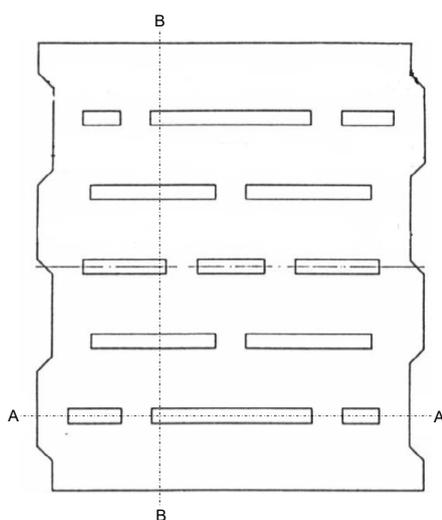
"Liaplan-Steine"-Plan-Vollblöcke			
Aggregate concrete masonry units (lightweight aggregates) of category I load bearing or non-load bearing walls			
Dimensions	length l =	247 mm	
	width w =	240 mm	
	height h =	249 mm	
Tolerances Tolerance category D4	length l =	+1/-3 mm	
	width w =	+1/-3 mm	
	height h =	± 1,0 mm	
Flatness of bed faces	≤ 1,0 mm		
Plane parallelism of bed faces	≤ 1,0 mm		
Configuration	see Example below		
Reaction to fire	Class A1		
Specific moisture conversion factor F_m	1,065		
Gross dry density			
Mean value			
minimum	kg/m ³	405	
maximum	kg/m ³	500	
Individual value			
minimum	kg/m ³	355	
maximum	kg/m ³	550	

alternative

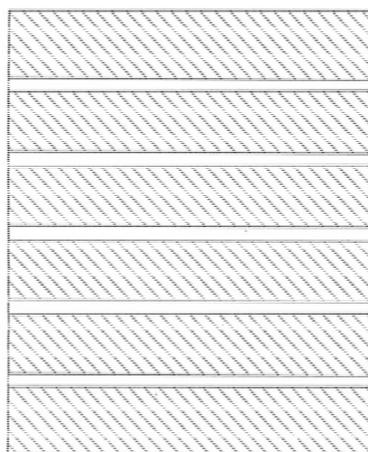
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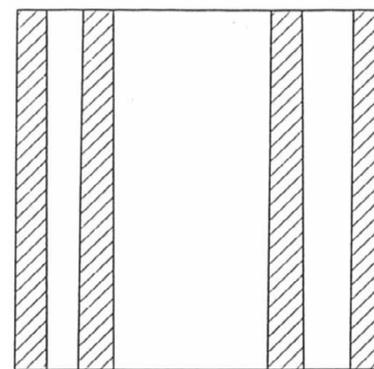
505	605	705
600	700	800
455	555	605
650	750	900



bottom view



B-B



A-A

Liaplan-aggregate concrete masonry units (lightweight aggregates)
Liaplan Nord GmbH

Essential characteristics and configuration of
"Liaplan-Steine"-Plan-Vollblöcke

Annex 1