

Declaration of Performance

Nr. PBWSL-5030660003-1

1. Unique identification code of the product type:
Z-17.1-543 Porenbeton-Plansteine W 4-0,50-499x115x249

2. Type number:
PBWSL 503 0660 003 -1

3. Intended Use:
AAC masonry units category I for loadbearing and non-loadbearing masonry walls, columns and partitions.

4. Name and contact address of the manufacturer:
Schlamann Porenbetonwerk GmbH, Am Kalksandsteinwerk 2, 31608 Marklohe

5. AVCP system :
2+

6. The notified body
Qualitätsgemeinschaft Mauerwerksprodukte e.V.
(Number of NB 0893)
has performed initial inspection of the manufacturing plant and of the factory production control,
performs a continuous surveillance, assessment and evaluation of the factory production control.

7. Declared performance:

Essential Characteristics		Performance	Harmonised technical specification
Dimensions	length	499 mm	EN 771-4:2011
	width	115 mm	
	height	249 mm	
Tolerance category	category	TLMB	
	flatness	≤ 1,0mm	
	plane parallelism	≤ 1,0mm	
Shape and configuration	group according to EN 1996-1-1:2005+AC:2009, table 3.1	Gruppe 1	
Compressive strength	mean compressive strength	≥ 4,6 N/mm ²	
	normalised compressive strength	≥ 4,6 N/mm ²	
	category	I	
	test direction	perpendicular to bedface	
	specimen	Würfel (en)	
Dimensional stability	shrinkage	≤ 0,2 mm/m	
Characteristic initial shear strength	with thin layer mortar	0,30 N/mm ²	
Reaction to Fire		Euroklasse A1	
Water absorption		NPD	
Water vapour permeability		NPD	
Thermal conductivity	λ _{10,dry,unit} (90/90) to EN 1745	0,125 W/(m·K)	
mean gross dry density	min	> 450 kg/m ³	
	max	≤ 500 kg/m ³	
Single value of gross dry density	min	NPD	
	max	NPD	

8. The performance of the product referring to in point 1 and 2 correspond to the declared performance at paragraph 7. This declaration of performance was issued under the sole responsibility of the manufactures specified in paragraph 4.

Signed on behalf of the manufacturer by:



Carsten Schlamann (Managing Director)

Marklohe, 01.07.2013

Product data sheet

LEMGA AAC precision blocks



LEMGA
AIRCRETE

Technical data

LEMGA AAC precision blocks:

Technical agreements

LEMGA AAC precision blocks according to DIN EN 771-4, DIN V 4165-100 and construction supervision agreement

Mortar

LEMGA thin layer mortar according to DIN 1053-1 and EN 998-2 (belongs to the delivery)

Size

Length [mm]	width [mm]	height [mm]
499	115 to 365	249

Other sizes on request.

Limit deviations

Length and width $\pm 1,5$ mm
Height $\pm 1,0$ mm

Performance

According to DIN 1053-1 and DIN 4103-1

Building physics

- Fire insulation according to DIN 4102-4 and DIN 4102-4/A1 non-combustible, class A1
- Sound insulation according to DIN 4109
- Thermal insulation according to DIN 4108 and energy performance directive

Compressive strength class for units	PPW2	PPW4	PPW6	
Density class	0,35	0,40	0,5 ¹⁾	0,65
Mean compressive strength [N/mm ²]	$\geq 2,5$	$\geq 2,5$	$\geq 5,0$	$\geq 7,5$
Lambda value λ_{R} [W/(m·K)]	0,09	0,10	0,13	0,21
Weight [kN/m ³]	4,5	5,0	6,0	7,5
Characteristic compressive strength [MN/m ²]	0,6	0,6	1,0	1,5
Water vapor diffusion coefficient	5/10	5/10	5/10	5/10

¹⁾ According to construction supervision agreement

SCHLAMANN
AAC FACTORY GMBH

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As of: August 2009



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Schlamann Porenbetonwerk GmbH
Am Kalksandsteinwerk 2
31608 Marklohe

Prod.-Id.: Z-17.1-543 Porenbeton-Plansteine W 4-0,50-499x150x249
DoP: PBWSL-5030661006-1
EN 771-4:2011
NB 0893

AAC masonry units category I for loadbearing and non-loadbearing masonry walls, columns and partitions.

Dimensions

length	499 mm
width	150 mm
height	249 mm

Tolerance category

category	TLMB
flatness	$\leq 1,0\text{mm}$
plane parallelism	$\leq 1,0\text{mm}$

Shape and configuration

group according to EN 1996-1-1:2005+AC:2009, table 3.1	Gruppe 1
max. percentage of grip holes and voids relating to the bedface	$\leq 10\%$

Compressive strength

mean compressive strength	$\geq 4,9\text{ N/mm}^2$
normalised compressive strength	$\geq 4,9\text{ N/mm}^2$
category	I
test direction	perpendicular to bedface
specimen	Würfel (en)

Dimensional stability

shrinkage	$\leq 0,2\text{ mm/m}$
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Characteristic initial shear strength

with thin layer mortar	$0,30\text{ N/mm}^2$
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Reaction to Fire

Euroklasse A1

Water absorption

NPD

Water vapour permeability

NPD

Thermal conductivity

$\lambda_{10,dry,unit}$ (90/90) to EN 1745	$0,123\text{ W/(m}\cdot\text{K)}$
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mean gross dry density

min	$> 450\text{ kg/m}^3$
max	$\leq 500\text{ kg/m}^3$