

Declaration of Performance

No.: CIRPB- 5086738010-1

1 Unique identification code of the product- type:

CIRPB- 5086738010-1

2 Intended use/es:

In masonry walls, columns and partitions

3 Manufacturer:

Cirke GmbH & Co. KG
Flaesheimer Straße 605
45721 Haltern am See
Deutschland

4 System/s of AVCP:

2+

5 Harmonised standard:

EN 771- 4:2011+A1:2015

Notified body/ies:

Qualitätsgemeinschaft Mauerwerksprodukte e.V. (identification number: 0839)

6 Declared performance/s:

Essential characteristics	Performance
Dimensions and dimensionals tolerances	
Dimensions	
length	624 mm
width	350 mm
height	214 mm
Dimensional tolerances	
tolerance category	TLMB
flatness of bed faces	≤ 1,0 mm
plane parallelism of bed faces	≤ 1,0 mm
Configuration	
group according to EN 1996- 1- 1	1
Compressive strength	
Compressive strength (perpendicular to bed)	
type of specimen	u (whole unit)
category	I
mean compressive strength	≥ 4,5 N/mm ²
normalised compressive strength	≥ 5,27 N/mm ²

Dimensional stability		
Moisture movement		
conventional reference value of drying shrinkage $\epsilon_{cs,ref}$		$\leq 0,2 \text{ mm/m}$
total value of drying shrinkage $\epsilon_{cs,tot}$		$\leq 0,4 \text{ mm/m}$
Bond strength		
Shear bond strength		
characteristic initial shear strength with		
Thin layer mortar		NPD
Flexural bond strength		
Thin layer mortar		
$f_{xk,i}$		NPD
Reaction to fire		
reaction to fire class		A1
Water absorption		
water absorption coefficient		NPD
Water vapour permeability		
water vapour diffusion coefficient (μ)		NPD
Direct airborne sound insulation/[Density and configuration]		
Density		
mean gross dry density		575 kg/m^3
min individual value of gross dry density		$\geq 551 \text{ kg/m}^3$
max individual value of gross dry density		$\leq 600 \text{ kg/m}^3$
mean net dry density		NPD
Configuration		see above
Dimensions and dimensionals tolerances		see above
Thermal resistance/[Density and configuration]		
Thermal properties		
mean thermal conductivity ($\lambda_{10,dry, unit}$)		$\leq 0,1510 \text{ W/mK}$
thermal conductivity ($\lambda_{10,dry, unit (X/\gamma)} (90/90)$)		$\leq 0,1560 \text{ W/mK}$
determination model according to EN 1745		S2
Durability against freeze/thaw		
Durability		
freeze-thaw resistance		NPD

The performance of the product identified above is in conformity with the set of declared performance/s.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.