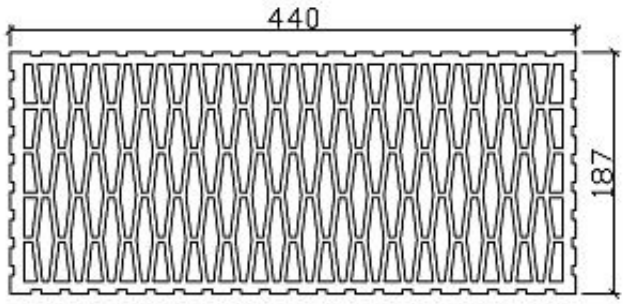
DECLARATION OF PERFORMANCE

rev. 4

DoP Nr. 1044

HELUZ PLUS 44-R grinded



The grawing is indicative and may be modified slightly

1. Unique identification code of the product-type: 23448.10

2. Intended use:

fired masonry element for protected load-bearing, single-layer thermally insulated walls

3. Manufacturer

HELUZ cihlářský průmysl a.s. , U Cihelny 295, CZ 373 65 Dolní Bukovsko IČ: 46680004
Factory: Hevlín I.

5. System of assessment and verification of constancy of performance of the construction product: System 2+

6a. Harmonised standard: EN 771-1:2011+A1:2015**; Notified body/ies:** 1020 TZÚS Praha, s.p.
FPC certificate: 1020-CPR-060023866

7. Declared performance:

Essential characteristic					Performance		Harmonized technical specification
Work dimensions			Category of tolerance		Range category		**EN 771-1:2011+A1:2015**
Length:	**187**	mm	**T2+**	**±3**	**R2+**	**4**	
Width:	**440**	mm	**T2+**	**±5**	**R2+**	**6**	
Height:	**249**	mm	**Tm 0,4**	**±0,4**	**R2+**	**1**	
Flatness of bed faces					**-0,1**	mm	
Plane parallelism of bed faces					**0,4**	mm	
Compressive strength (⊥ bedface)*			Category I, P	mean normalized	**10** **11,5**	N/mm^2	
Bond strength (for elements intended for use in load-bearing structures)			determined value		**0,3**	N/mm^2	**EN 998-2:2016**
Gross dry density Category of tolerance					**670** **D2**	kg/m3	**EN 771-1:2011+A1:2015**
Dimensional stability			moisture movement		**NPD**	mm/m	
Active soluble salts content					**NPD (S0)**		
Reaction to fire					**class A1**		
Water absorption					**Not to be left exposed!**		
Direct airborne sound insulation			wall with the both side plaster		**NPD**	dB	
Group of masonry units			Vertically perforated element with a tongue and groove system, group 3 in accordance with EN 1996-1-1, see attached picture				

***** Test according to EN 772-1, treating compressed areas according to article 7.2.4 and conditioning according to article 7.3.2. A single strength value is not less than 0.8 times of the declared compressive strength.

Essential characteristic		Performance		Harmonized technical specification
Water vapor permeability	Diffusion resistance factor	**5/10**		**EN 1745:2021**
Thermal conductivity $\lambda_{10,dry}$,	Method **NPD**	**NPD**	W/mK	**EN 1745:2021**
Durability against freeze-thaw	Not to be left exposed!	**NPD (F0)**		**EN 771-1:2011+A1:2015**
Hazardous substances	Mass activity ^{226}Ra <120 Bq.Kg-1			

Next characteristics Acoustic brick

The minimum thickness of the face side shells is and of the perpend shell is	**NPD** **NPD**	mm mm
The minimum thickness of the webs is	**NPD**	mm
Percentage of voids is	**54**	%
Minimum area for concrete infill canal is and its smallest dimension	**NPD** **NPD**	mm^2 mm
The average volume of the recess (mortar pockets) is	**NPD**	ml
Percentage of grip hole is	**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

Signed for and on behalf of the manufacturer by:

Ing. Jan Smola, MBA
Director and Member of the Administrative Board

Dolní Bukovsko 20. 9. 2024