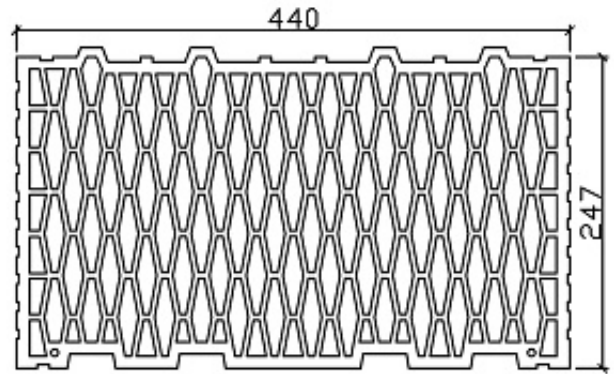


DECLARATION OF PERFORMANCE

rev. 8

DoP Nr. 446

HELUZ PLUS 44 grinded



The drawing is indicative and may be modified slightly

1. Unique identification code of the product-type: 53445.00

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 II.

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	
Length:	247 mm	T2+	±4	R2+	5
Width:	440 mm	T2+	±5	R2+	6
Height:	249 mm	Tm 0,4	±0,4	R2+	1
Flatness of bed faces				-0,2	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
Gross dry density				600	kg/m ³
Category of tolerance				D2	
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 P3	0,099 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	NPD	mm
and of the perpend shell is	NPD	mm
The minimum thickness of the webs is	NPD	mm
Percentage of voids is	59	%
Minimum area for concrete infill canal is	NPD	mm ²
and its smallest dimension	NPD	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:



Dolní Bukovsko 20. 9. 2024

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