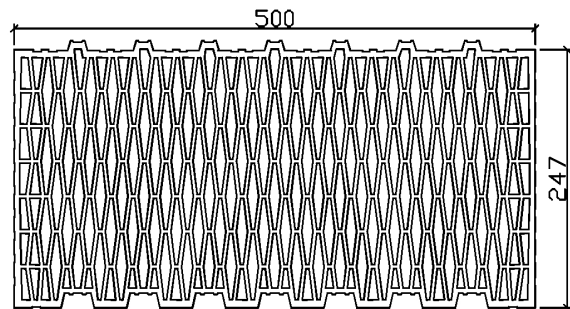


# DECLARATION OF PERFORMANCE

DoP Nr. 1035 rev. 3

## HELUZ FAMILY 50-N grinded



The drawing is indicative and may be modified slightly

1. Unique identification code of the product-type: 27509.05

2. Intended use:

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.

7. Declared performance:

Essential characteristic		Performance		Harmonized technical specification		
Work dimensions		Category of tolerance		Range category		<b>EN 771-1:2011+A1:2015</b>
Length:	247 mm	T2+	±4	R2+	5	
Width:	500 mm	T2+	±6	R2+	7	
Height:	166 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		8	N/mm <sup>2</sup>	
				8		
Bond strength (for elements intended for use in load-bearing structures)	determined value			0,3	N/mm <sup>2</sup>	<b>EN 998-2:2016</b>
Gross dry density				650	kg/m <sup>3</sup>	<b>EN 771-1:2011+A1:2015</b>
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	<b>5/10</b>	<b>EN 1745:2021</b>
Thermal conductivity $\lambda_{10,dry}$	Method <b>P5</b>	<b>0,075</b> W/mK	<b>EN 1745:2021</b>
Durability against freeze-thaw	Not to be left exposed!	<b>NPD (F0)</b>	<b>EN 771-1:2011+A1:2015</b>
Hazardous substances	Mass activity $^{226}\text{Ra}$ <120 Bq.Kg-1		

Next characteristics Acoustic brick

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

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 1.11.2023

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