

# DECLARATION OF PERFORMANCE

rev. 4

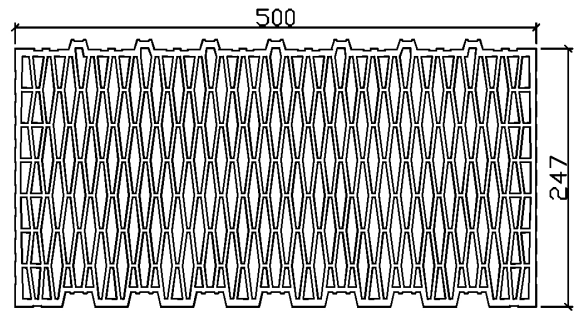
DoP Nr. 1035

## HELUZ FAMILY 50-N grinded

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

2. Intended use:

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



The drawing is indicative and may be modified slightly

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		<b>EN 771-1:2011+A1:2015</b>
Length:	<b>247</b> mm	<b>T2+</b>	<b>±4</b>	<b>R2+</b>	<b>5</b>	
Width:	<b>500</b> mm	<b>T2+</b>	<b>±6</b>	<b>R2+</b>	<b>7</b>	
Height:	<b>166</b> mm	<b>Tm 0,4</b>	<b>±0,4</b>	<b>R2+</b>	<b>1</b>	
Flatness of bed faces				<b>-0,2</b>	mm	
Plane parallelism of bed faces				<b>0,4</b>	mm	
Compressive strength (⊥ bedface)*		Category I, P	mean normalized	<b>8</b>	N/mm <sup>2</sup>	
Bond strength (for elements intended for use in load-bearing structures)		determined value		<b>0,3</b>	N/mm <sup>2</sup>	<b>EN 998-2:2016</b>
Gross dry density				<b>650</b>	kg/m <sup>3</sup>	<b>EN 771-1:2011+A1:2015</b>
Category of tolerance				<b>D2</b>		
Dimensional stability		moisture movement		<b>NPD</b>	mm/m	
Active soluble salts content				<b>NPD (S0)</b>		
Reaction to fire				<b>class A1</b>		
Water absorption				<b>Not to be left exposed!</b>		
Direct airborne sound insulation		wall with the both side plaster		<b>NPD</b>	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 20. 9. 2024

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