

# DECLARATION OF PERFORMANCE

DoP Nr. 446 rev. 4

Type:

## HELUZ PLUS 44 grinded brick

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

2. Intended use:

**for protected load-bearing, single-layer thermally insulated walls**

3. Manufacturer:

**HELUZ s.r.o.**

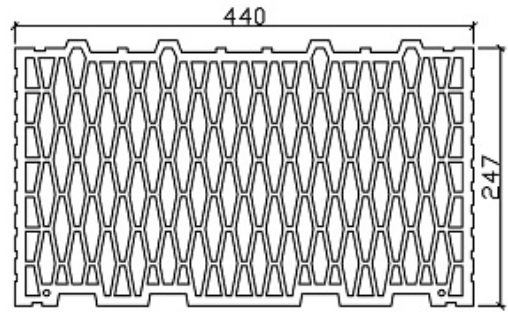
**U Cihelny 295, CZ 373 65 Dolní Bukovsko I : 28068262**

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.

7. Declared performance:



The drawing is indicative and may be modified slightly

| Essential characteristic   |   | Performance   |                   | Harmonized technical specification |    |
|--|---|---|-------------------|------------------------------------|----|
| Compressive strength ( $\wedge$ bedface)*, Category I, P                 | mean normalized   | 10  | N/mm <sup>2</sup> | EN 771-1:2011+A1:2015              |    |
|  |   | 12,5  |                   |                                    |    |
| Dimensional stability  | moisture movement   | NPD   | mm/m              |                                    |    |
| Active soluble salts content   |   | NPD (S0)  |                   |                                    |    |
| Reaction to fire   |   | Euroclass A1  |                   |                                    |    |
| Water absorption   | Not to be left exposed!   |   |                   |                                    |    |
| Direct airborne sound insulation   | wall with the both side plaster   | NPD   | dB                |                                    |    |
| Gross dry density  | category of tolerance<br>D2   | 600   | kg/m <sup>3</sup> |                                    |    |
| Work dimensions  | Length:   | dimensional tolerance and range category<br>Tm<br>R2+ | 247               |                                    | mm |
|  | Width:  |   | 440               |                                    | mm |
|  | Height:   |   | 249               | mm                                 |    |
| Flatness of bed faces  |   | - 0,2   | mm                |                                    |    |
| Plane parallelism of bed faces   |   | 0,4   | mm                |                                    |    |
| 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 |   |                   |                                    |    |
| Bond strength (for elements intended for use in load-bearing structures) | determined value  | 0,3   | N/mm <sup>2</sup> | EN 998-2:2016                      |    |
| Water vapor permeability   | Diffusion resistance factor   | 5/10  |                   | EN 1745:2012                       |    |

| Essential characteristic                         |  | Performance     |      | Harmonized technical specification |
|--|--|-----------------|------|------------------------------------|
| Thermal conductivity <small>10,dry, unit</small> | Method<br><b>P3</b>                                      | <b>0,099</b>    | W/mK | <b>EN 1745:2012</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 $^{226}\text{Ra} < 120 \text{ Bq.kg}^{-1}$ |                 |      |                                    |

\* 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.

\*\*  $T_m$ : At the calibrated bricks is the maximum height difference +/- 0.5 mm. The dimensional tolerance category of width and length is T2 +.

#### Next characteristics Acoustic brick

|   |  |
|---|--|
| The minimum thickness of the face side shells is<br><b>NPD mm</b> | Minimum area for concrete infill canal is<br><b>- mm<sup>2</sup></b> |
| and of the perpend shell is<br><b>NPD mm</b>                      | and its smallest dimension is<br><b>- mm</b>                         |
| The minimum thickness of the webs is<br><b>NPD mm</b>             | The average volume of the recess (mortar pockets) is<br><b>- ml</b>  |
| Percentage of voids is<br><b>59 %</b>                             | Percentage of grip hole is<br><b>-%</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 identified above. Signed for and on behalf of the manufacturer by:



Ing. Jan Smola  
Proxy holder