

## **HELUZ AKU 30/33.3 MK, P20**





#### USE

Acoustic bricks with a mortar pocket in the vertical joint laid on regular mortar designed for protected load-bearing brickwork with a high degree of sound insulation.

#### **GENERAL INFORMATION**

Manufacturing plant Compressive strength (MPa)
$\Lambda_{10,dry,unit}$ (W/(m.K))
Dimensions I x w x h (mm)
Reaction to fire class
Bulk density (kg/m³)
Average weight inf. (kg)
Additional brick production (yes/no)

MACONDY	DDADEDTIES	ON MODTAD
MASONKI	<b>PROPERTIES</b>	UN WUKTAK

Bricks consumption per 1 $m^2$ (pcs)
Bricks consumption per 1 m³ (pcs)
Mortar consumption (kg/m²)

#### THERMAL PROPERTIES

$\Lambda_{design, mas}$ (W/(m.K))
$U_{design, mas}$ (W/(m <sup>2</sup> .K)) without plasters
U <sub>design, mas</sub> (W/(m <sup>2</sup> .K)) with plasters
U <sub>dry, mas</sub> (W/(m <sup>2</sup> .K)) with plasters
Diffusion resistance factor μ (-)
Specific heat capacity c (kJ/(kg.K))

#### **FIRE RESISTANCE**

Wall plastered on both sides	
Wall utilisation degree $\boldsymbol{\alpha}$	

### **STATIC SPECIFICATIONS**

Surface weight of walls with plasters (kg/m²
A group of masonry elements
Masonry element strength (MPa)
Compressive strenght of masonry $f_k$ (MPa)
Coefficient of elasticity $K_{_{\rm E}}$
Initial shear strength of masonry $f_{vk0}$ (MPa)

#### SOUNDPROOFING

Weighted sound reduction index R <sub>w</sub> (dB)
Measured/informative value
Surface weight of walls with plasters (kg/m²)
Bulk density of mortar min. (kg/m³)
Bulk density of plaster min. (kg/m³)
Plaster thickness (mm)

Heviin I.
20
0,341
333 x 300 x 238
A1
980
23,3
No

M10

12

40

38.2

0.392

0,98

0.94

0,85

5/10

1,0

**REI 180** 

1,0

395

2

20

8

1000

0,3

58

measured

365

1700

1600

2x15

М5

12

40

38.2

0.392

0,98

0.94

0,85

5/10

1,0

**REI 180** 

1,0

395

2

20

6,5

1000

0,2

58

measured

365

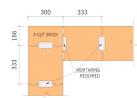
1700

1600

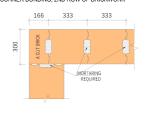
2x15

# - CORNER BONDING. 1ST ROW OF BRICKWORK

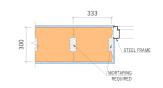
**CORNER AND LINING CONNECTION** 



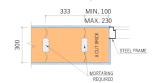












General information: The masonry properties are determined by the combination of the masonry element, mortar and surface treatment. It is therefore necessary to respect the principles for designing and building structures in accordance with the HELUZ documents and general regulations and technical standards. Detailed and up-to-date information, which always takes precedence over the technical specification, is available at constructionselector helux.com. The technical specifications contain a summary of selected product and structure properties to provide basic information for structure design. Unless otherwise stated, the individual data is based on harmonised European standards and their localisation for the Czech Republic.

Product properties are given according to the harmonised EN 771-1:2011+A1:2015 standard. All of the declared product parameters are listed in the declaration of performance. Masonry properties for mortar are given for the selected mortar types in the individual columns. The mortar consumption corresponds to the execution of the masonry in accordance with

the technological regulations - HELUZ Performance Manual. Indicative labour content excludes scaffolding. Thermal properties. The values are stated in accordance with EN 1745. A design, mas and U design, mas correspond to the design values. Coating are considered with the thickness of 2 x 15 mm with

h = 0.88 W/m.K. The heat transfer resistance used for internal structures is  $R_{si}$  = 0.13 m<sup>2</sup>.K/W.  $U_{dry,mas}$  indicates the values for coated brickwork with the bricks and mortar in the dry state. Fire resistance is stated for walls with rendering on both sides. The HELUZ SB and HELUZ SB mortar values are stated in accordance with EN 1996-1-2, Annex B or based on test results.

HELUZ Foam (PU) and HELUZ SIDI mortars are determined based on test results. Statics: The group of masonry elements is specified according to EN 1996-1-1. The mechanical properties of the brickwork are based on calculations according to EN 1996-1-1 and test results. The HELUZ Foam (PU) and HELUZ SIDI mortars are determined based on test results.

Soundproofing: R<sub>w</sub> values are determined by both wall measurement in an accredited laboratory at the specified material composition of the wall and surface weight of the masonry. The indicative values correspond to a qualified estimate based on test results of a similar brick type and material composition of the structure.