

HELUZ AKU 11,5, P15



USE

Acoustic bricks laid on regular mortar designed for protected non-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)

MASONRY PROPERTIES ON MORTAR

Hevlín I.
15
0,334
375 x 115 x 238
A1
1070
11
No

10.7

92,8

15,6

EI 120

NPD

M10 10.7

92.8

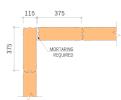
15.6

EI 120

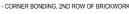
NPD

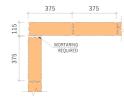
CORNER AND LINING CONNECTION











THERMAL PROPERTIES

Mortar consumption (kg/m²)

Bricks consumption per 1 m² (pcs)

Bricks consumption per 1 m3 (pcs)

0,387	0,387
1,79	1,79
1,69	1,69
1,62	1,62
5/10	5/10
1,0	1,0

- BONDING AT THE DOOR REVEAL, 1ST ROW OF BRICKWORK



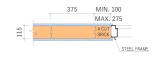
FIRE RESISTANCE

Wall plastered on both side	s
Wall utilisation degree α	

TIC SPECIFICATIONS

STATIC SPECIFICATIONS		
Surface weight of walls with plasters (kg/m²)	182	182
A group of masonry elements	2	2
Masonry element strength (MPa)	15	15
Compressive strenght of masonry f _k (MPa)	NPD	NPD
Coefficient of elasticity K _E	NPD	NPD
Initial shear strength of masonry f _{vk0} (MPa)	NPD	NPD

- BONDING AT THE DOOR REVEAL, 2ND ROW OF BRICKWORK



SOUNDPROOFING

Weighted sound reduction index R _w (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)

47	47
measured	measured
204,8	204,8
1700	1700
1700	1700
2x15	2x15

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 m².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 SBC 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_w 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.