

## Light clay blocks, application class Ia Item No. 07.011, 07.010, 07.012

DIN 18945

- The classic timber-frame block
- Optimal drying properties
- High moisture resistance



Lightweight mould-made clay block of application class Ia (= approved for timber-frame masonry work) in format NF. The composition and manufacturing technique make it very resistant to moisture and frost. The historical normal format (NF) lies well in the hand, the size is just right for timber-frame construction. The 1200 NF clay block can be knocked and cut into shape very easily. Lightweight clay masonry mortar is an ideal mortar for plastering with coarse lime basecoat render with hair.

## Light clay blocks, application class Ia

Item No. 07.011 NF 1200: Clay block - non-load-bearing - DIN 18945 - LS f - Ia - 1.2 - NF<sup>1</sup>

Item No. 07.010 NF 1200: Clay block - non-load-bearing - DIN 18945 - LS f - Ia - 1.2 - NF<sup>2</sup>

Item No. 07.012 NF 800: Clay block - non-load-bearing - DIN 18945 - LS f - Ia - 0.8 - NF<sup>1,3</sup>

**Field of application** Mould-made and extruded clay blocks of application class Ia for facing and non-load-bearing interior walls. Ideal for timber-frame infills with subsequent lime exterior plaster.

**Composition** Building clay, wood and straw chaff

### Material properties

07.011 and 07.010-A: Mould-made clay blocks Application class AK Ia. NF. Solid blocks. Gross density class 1.2.  $\mu$ -value 5/10.

Thermal conductivity 0.47 W/m·K.

07.012: Mould-made clay blocks Application class AK Ia. NF solid blocks. Gross density class 0.8.  $\mu$ -value 5/10. Thermal conductivity 0.25 W/m·K.

Building material class B2 in each case; better classification is possible subject to fire protection tests (Lehmbau Regeln DVL 2009, p. 97).

**Supply form** Shrink-wrapped on pallets, NF 416 units Breakages  $\leq$  4%.

**Storage** Can be stored dry for an indefinite period. Up to three pallets can be stacked on top of each other.

**Material needs** Depending on the block format and wall thickness, the following number of blocks per m<sup>2</sup> are needed (in units):

Block format	11.5cm	17.5cm	24.0cm	horizontal
NF	50	-	99	38

For mortar needs, see the lightweight clay masonry mortar product sheet.

**Processing** Work with light clay blocks according to the rules of masonry. Pre-wetting the light clay blocks in the horizontal masonry joints increases the masonry's strength. Lightweight clay masonry mortar (CLAYTEC 05.022 and 10.122) is used as masonry mortar. If lime plaster is planned, level any masonry joints; to improve plaster adhesion later on, scrape them out to create a sharp-edged recess of max. 3 mm.

**Subsequent processing** Leave the masonry to dry fully. Pre-wet before plastering (spray mist).

Interior walls are normally plastered with CLAYTEC clay plaster mortars, see worksheet clay plasters. Timber-frame infills are usually plastered on the outside with gräfix coarse lime basecoat render with hair (CLAYTEC 21.200). Knowledge of the CLAYTEC "Timber-frame construction worksheet" is needed when choosing and executing the plaster structure.

**Notes** Because of the production process, the clay blocks described here may display unusually high deviations in terms of flatness and parallel alignment of the outer surfaces. This does not constitute a reason for refund.

<sup>1</sup> Nominal deviation to the NF format acc. to DIN: 07.011 diameter l 252 mm, b 119 mm, h 70 mm. 07.012 diameter l 256 mm, b 121 mm, h 70 mm.

<sup>2</sup> Nominal deviation to the NF format acc. to DIN: 07.010 diameter l 247 mm, b 120 mm, h 70 mm.

<sup>3</sup> Nominal deviation to the NF format acc. to DIN: 07.012 diameter l 256 mm, b 121 mm, h 69 mm.

Minimum and maximum dimensions as well as dimension ranges analogous to the permissible deviations DIN 18945, Table 4, for NF rows 2, 5 and 9.

For instructions on working with this product see:

