Product sheet

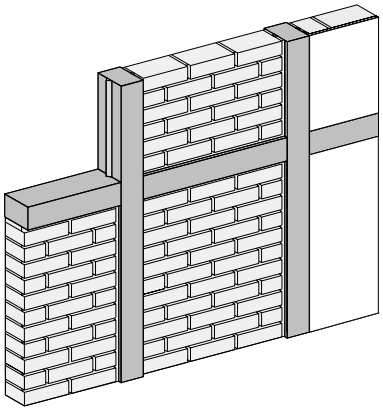
CLAYTEC®
Building with Clay

Light clay blocks, application class la

Item No. 07.011, 07.012

DIN 18946

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



Lightweight mould-made clay block of application class la (= 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.

For technical consulting service teams and sales see www.claytec.de
Product data and application see reverse

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Light clay blocks, application class Ia

Item No. 07.011 NF 1200: Clay block - non-load-bearing - DIN 18945 - LS f - Ia - 1.2 - NF1
Item No. 07.012 NF 800: Clay block - non-load-bearing - DIN 18945 - LS f - Ia - 0.8 - NF1

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. 900 2DF for large infills and inner layers, 900 3DF with grip hole for timber frames of very broad (deep) beams.

Composition Building clay, wood and straw chaff

Material properties
07.011: Mould-made clay blocks Application class AK Ia. NF. Solid blocks. Gross density class 1.2. μ-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. μ-value 5/10. Thermal conductivity 0.25 W/m·K.

07.004: Extruded clay block 2DF. Solid blocks. Gross density class 0.9. μ-value 5/10. Thermal conductivity 0.30 W/m·K.
07.015: Extruded clay block 3DF. Solid blocks. Gross density class 0.9. μ-value 5/10. Thermal conductivity 0.30 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, 2DF 350 units, 3DF 240 units Breakages ≤ 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 m² are needed (in units):

Block format	11.5cm	17.5cm	24.0cm	horizontal
DF	66	-	132	38
NF	50	-	99	38
2DF	33	-	66	38
3DF	-	33	45	25

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.

[1] 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.
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.

[2] After only check and assessment of the concrete individual case for exposed masonry, please request separate information.