

Light clay block 2DF 700

Application class Ia

Item. No. 07.013

DIN 18945

- **For infill masonry in historic timber-frame structures**
- **For thermally insulating interior wall linings**
- **High strength**
- **High resistance to moisture and frost**



Lightweight, form-pressed clay block of application class Ia, approved for use as infill masonry in timber-frame structures. Its composition and manufacturing process make the lightweight clay block 2DF 700 highly resistant to moisture and frost. Thanks to its good thermal insulation properties, it is also suitable for interior insulation in the form of masonry wall linings. Lightweight clay masonry mortar is used for laying the blocks. Coarse lime base plaster with hair reinforcement is suitable for exterior plastering, while clay undercoat plaster with straw is recommended for interior plastering.



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2026/10
Changes and errors excepted.
Current version available at
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Item No. 07.013: Clay Block (LS), non-load-bearing – DIN 18945 – p – AK Ia – 0.7 – 2DF

Field of application Form-pressed clay blocks for timber-frame exterior walls with subsequent lime exterior plaster, timber-frame interior walls, thermally insulating interior wall linings, and other non-load-bearing interior masonry.

Composition Clay, hemp, sand

Material properties Solid, unperforated blocks. Format: 2DF (240 × 115 × 113 mm). Application class: AK Ia.
Thermal conductivity: approx. 0.18 W/m·K. Manufacturing process: Form-pressed (p). Dry density class: 0.7 (610–700 kg/m³).
Compressive strength: 1.18 N/mm². Water vapor adsorption: 1 h = 35 g/m², 6 h = 110 g/m², 12 h = 180 g/m², 48 h = 397 g/m².
Building material class: B1. Water vapor diffusion resistance factor: μ -value 5/10.

Supply form Shrink-wrapped on pallets of 350 units.

Storage There is no time limit on storage provided the blocks are kept dry. Up to three pallets can be stacked on top of each other.

Material needs Depending on the wall thickness, the following block/mortar requirements apply per m²:

Block format	11,5 cm	24,0 cm
2DF	33 pcs / 20 l	66 pcs / 55 l

If necessary, allow 10 l mortar / m² for filling the shell joints.

Processing Lightweight clay blocks 2DF 700 are laid using lightweight clay masonry mortar (ClayTec 05.022, 05.222, and 10.122).

Standard masonry bonding rules apply.

Timber-frame infill masonry: Finish masonry joints flush. If lime plaster is planned, the fresh joints may be raked out with sharp edges or recessed using a jointing tool to a maximum depth of 3 mm to improve subsequent plaster adhesion.

Thermally insulating interior wall linings: Fill the gap between the interior lining and exterior wall fully with mortar. To this end, the masonry may have to be mechanically connected to the exterior wall (using perforated metal mounting straps or similar connectors). The gap between the walls must not exceed 1 cm in thickness to ensure proper drying. Uneven exterior walls should initially be roughly leveled with plaster as needed and allowed to dry before masonry work begins.

Subsequent processing Leave the masonry to dry fully.

Thoroughly pre-wet each exterior timber-frame infill panel before plastering! Apply gräfix lime base plaster, coarse with hair reinforcement (ClayTec 21.200). For guidance on selecting the complete plaster system, refer to the ClayTec "Timber-Frame Construction" technical bulletin.

Pre-wet interior walls before plastering. Apply ClayTec clay plaster mortar. Refer to the ClayTec "Clay Plasters" technical bulletin.

Claims for compensation that do not result from factory mixing errors are excluded.

Subject to change and errors excepted. As of 2026/10.