

# CLAY PANEL, HEAVY (CP) 16 and 22 mm, reinforced on one side



**09.008 Clay panel (CP), (A), (B) – DIN 18948 – MHK II – 1,6 – 16**  
**09.007 Clay panel (CP), (A), (B) – DIN 18948 – MHK II – 1,6 – 22**

|                      |                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Properties</b>    | Thin, compression-moulded clay panel made from earth building material for cladding (Type A) and facing of walls, ceilings and pitched roofs to DIN 18948. System for the installation area DIN 4103-1. |
| <b>Composition</b>   | Clay, untreated wood fibres, plant starch, jute fabric on the reverse side.                                                                                                                             |
| <b>Delivery Form</b> | On disposable pallets, 60 panels/pallet (16 mm) or 40 panels/pallet (22 mm).                                                                                                                            |
| <b>Dimensions</b>    | Nominal length l = 1,250 mm; Nominal width w = 625 mm; Nominal thickness t = 16   22 mm                                                                                                                 |
| <b>Storage</b>       | Store flat on pallet; protect panels from moisture and store dry; cover with tarpaulin/film.                                                                                                            |

|                                     |                                      |                                             |                              |                  |
|-------------------------------------|--------------------------------------|---------------------------------------------|------------------------------|------------------|
| <b>Key Figures / Technical Data</b> | Panel size:                          | 1.25 × 0.625 m; 0.781 m <sup>2</sup> /panel | Dimensional stability class: | MHK II           |
|                                     | Panel thickness:                     | 16 mm or 22 mm                              | Nominal length/width         | ± 4.0 mm         |
|                                     | Weight per panel (16   22):          | 18 kg   25 kg                               | Nominal thickness            | +1.0/-3.0 mm     |
|                                     | Weight per m <sup>2</sup> (16   22): | 23 kg   32 kg                               | Squareness/flatness          | 3.0 mm           |
|                                     | Apparent density (density class):    | approx. 1,450 kg/m <sup>3</sup> (1.6)       | Heat conductivity:           | 0.353 W/mK       |
|                                     | Tensile strength:                    | 1,52 N/mm <sup>2</sup>                      | Thermal storage capacity c:  | ca. 1,1 kJ/(kgK) |
|                                     | Surface hardness:                    | ≤ 15 mm                                     | Vapour diffusion resistance: | μ = 5/10         |
|                                     | Surface tensile strength:            | 0,52 N/mm <sup>2</sup>                      | Water vapour sorption class: | WS III           |
|                                     | Category of building materials:      | A2 - s1, d0                                 | Moisture tolerance class:    | FTK II           |

|                                                                               | Component                                                                                                                                      | Fire Performance             |                                              | Fire resistance |                                             | Soundproofing  |                                      |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-----------------|---------------------------------------------|----------------|--------------------------------------|
|                                                                               |                                                                                                                                                | Classification               | Certification                                | Classification  | Certification                               | Classification | Certification                        |
| <b>Certifications – Fire Performance / Fire Resistance / Sound Insulation</b> | conluto clay panels general                                                                                                                    | A2 - s1, d0 (DIN EN 13501-1) | K-MPABS-2402405 MPA Braunschweig, 25.11.2024 | -               | -                                           | -              | -                                    |
|                                                                               | conluto clay panels 2 × 16 mm                                                                                                                  |                              |                                              | F 30            | GS 3.2/18-282-1 MFPA Leipzig vom 27.08.2018 | -              | -                                    |
|                                                                               | <b>Non-load-bearing partition</b>                                                                                                              |                              |                                              |                 |                                             |                |                                      |
|                                                                               | Bearing partition: timber stud 60 × 60 mm<br>Jute insulation 60 mm<br>Both sides conluto clay panel 22 mm                                      | -                            | -                                            | EI45 (F30)      | PB 3.2/16-288-3-r1 MFPA Leipzig, 30.01.2025 | -              | -                                    |
|                                                                               | Bearing partition: timber stud 60 × 80 mm<br>Jute insulation 80 mm<br>Both sides conluto clay panel 22 mm                                      | -                            | -                                            | EI90 (F90)      | PB 3.2/18-288-1-r1 MFPA Leipzig, 30.01.2025 | = 52 dB        | PB 1725 IAB Weimar, 20.04.2017       |
|                                                                               | Bearing partition: timber stud 60 × 80 mm<br>Jute insulation 80 mm<br>Both sides conluto clay panel 16 mm double layer both sides              | -                            | -                                            | EI120 (F120)    | PB 3.2/18-111-1-r1 MFPA Leipzig, 30.01.2025 | = 56 dB        | PB 1872-rep01 IAB Weimar, 08.08.2018 |
|                                                                               | Bearing partition: Holzständer 60 × 60 mm<br>Softwood fibre insulation 60 mm<br>Both sides conluto clay panel 22 mm                            | -                            | -                                            | EI60 (F60)      | K-MPABS-240028 Braunschweig, 27.11.2024     | -              | -                                    |
|                                                                               | Bearing partition zweischalig Holzständer double layer 60 × 60 mm<br>Softwood fibre insulation je 40 mm<br>Both sides conluto clay panel 22 mm | -                            | -                                            | EI60 (F60)      | PB 3.2/20-326-2-r1 MFPA Leipzig, 30.01.2025 | = 65 dB        | PB 0147-21 IAB Weimar, 22.12.2021    |

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Nachweise zu  
Brandverhalten/  
Feuerwiderstand/  
Schallschutz

| Component                                                                                                                                                                                                                        | Fire Performance             |                                              | Fire resistance |                                             | Soundproofing                                      |                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-----------------|---------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------|
|                                                                                                                                                                                                                                  | Classification               | Certification                                | Classification  | Certification                               | Classification                                     | Certification                                                              |
| conluto clay panels general                                                                                                                                                                                                      | A2 - s1, d0 (DIN EN 13501-1) | K-MPABS-2402405 MPA Braunschweig, 25.11.2024 | -               | -                                           | -                                                  | -                                                                          |
| conluto clay panels 2 x 16 mm                                                                                                                                                                                                    | -                            | -                                            | F 30            | GS 3.2/18-282-1 MFPA Leipzig vom 27.08.2018 | -                                                  | -                                                                          |
| <b>Load-bearing partition</b>                                                                                                                                                                                                    |                              |                                              |                 |                                             |                                                    |                                                                            |
| Solid wood wall<br>Cross-laminated timber wall 100 mm<br>conluto clay panel 22 mm (fire-facing side) Load 100 kN/m                                                                                                               |                              |                                              | REI90 (F90)     | PB MA39-25-00747 MA39 Stadt Wien 30.01.2025 | > 45 dB<br><br>> 49 dB bei beidseitiger Beplankung | PB 0137-24 IAB Weimar, 02.09.2024<br><br>PB 0160-24 IAB Weimar, 02.09.2024 |
| Timber-frame construction (external wall)<br>Solid formwork 22 mm<br>Wooden frame 60 x 160 mm<br>Cellulose insulation 160 mm (50 kg/m³) Chipboard P4 16 mm<br>conluto clay panel 22 mm (feuerzugewandte Seite) Load 32 kN/m      | REI60 (F60)                  | PB MA39-25-00749 MA39 Stadt Wien 30.01.2025  | -               | -                                           | -                                                  | -                                                                          |
| Timber-frame construction<br>conluto clay panel 16 mm<br>OSB3 22 mm<br>Wooden frame 60 x 140 mm<br>Rock wool insulation 140 mm (30 kg/m³)<br>OSB3 22 mm<br>conluto clay panel 16 mm<br>Load 28 kN/m (Auslastung $\alpha = 0,8$ ) | REI60 (F60)                  | PB 3.2/23-064-4 MFPA Leipzig, 05.09.2023     | -               | -                                           | -                                                  | -                                                                          |
| Timber-frame construction<br>conluto clay panel 16 mm<br>OSB3 12 mm<br>Wooden frame 60 x 120 mm<br>Rock wool insulation 120 mm (30 kg/m³)<br>OSB3 12 mm<br>conluto clay panel 16 mm<br>Load 25 kN/m (Auslastung $\alpha = 1,0$ ) | REI45 (F30)                  | PB 3.2/23-064-1 MFPA Leipzig, 06.09.2023     | -               | -                                           | -                                                  | -                                                                          |

Application

Clay panels are used in interior construction for building partition walls, cladding timber frame or timber post structures, and for facing existing masonry/plastered surfaces. Fixing is by screws, staples or bonding. Afterwards, the clay panels are skim-coated with clay in two thin layers.

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**Knowledge of our „Clay Panel“ Technical Data Sheet is essential for planning and processing.**

Processing

**Transport / Handling:**  
Grip the flat-lying panel with both hands at one long edge and tilt it upright over the opposite long edge. Then lift and carry upright. Carrying the panel flat creates a risk of breakage due to strong vibrations. Setting the panel down is carried out in reverse order. Do not slide panels on top of one another.

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## Processing

### Cutting to Length / Size:

When cutting the clay panel, it should lie on the pallet or a cutting table. Suitable cutting tools are all standard stone and woodworking machines. Due to increased dust generation when machine-cutting, appropriate dust extraction and protective measures must be taken (from dust class M). Alternatively, panels can be scored with a utility knife/panel scorer: score the surface multiple times along a guide, snap over a firm edge, cut through the reverse fabric, and straighten the cut edge with an edge rasp or carbide rasp if necessary.

## Processing

### Subframe:

Subframes can be constructed from timber or metal profiles. Centre-to-centre spacing:  $\leq 62.5$  cm (walls) or  $\leq 31.25$  cm (ceilings/slopes/16 mm panel). Observe panel dimensional tolerances. Clay panels are always installed in landscape orientation and in a staggered bond. Fixing surface of structural timbers at least 6 cm wide. The subframe must be adequately dimensioned for height, length and area weight. Integrate appropriate fixing aids for heavy objects.

### Full-surface substrates:

In timber frame construction the clay panel can be mounted directly on the interior-facing engineered wood board, or an installation layer created with additional battens. On existing, firmly adhering plaster and level masonry, panels can be bonded directly with conluto Clay Adhesive and Reinforcing Mortar. Clay panels have two different faces: the unreinforced face faces the room; the jute fabric faces the substrate.

## Fixing

The clay panels have two different sides. The unreinforced side must always face the room, with the jute fabric facing the substrate.

| Fixing Methods                              |                               | Number of fixing points per panel |                 | Suitable for                                     |
|---------------------------------------------|-------------------------------|-----------------------------------|-----------------|--------------------------------------------------|
|                                             |                               | Wall 16   22                      | Ceiling 16   22 |                                                  |
| Countersunk screw<br>+ conluto fixing plate | min. 5 x 50<br>Art.-No. 10016 | 12   8                            | 18   21         | Wood /<br>Metal profile /<br>Plaster / Brickwork |
| Wide-crown staple                           | B 26 x L 45 – 65 mm           | $\geq 15$   $\geq 10$             | never           | Wood                                             |
| Clay Adhesive and<br>Reinforcing Mortar     | Art.-Nr. 10.014               | over the<br>entire surface        | never           | Plaster / Brickwork                              |

Note: When screwing with fixing plates on walls, the screw can be placed in the butt joint. At ceilings, slopes and with wide-crown staples: minimum edge distance 2 cm.

## Reinforcement Layer

Once the cladding is complete, the surfaces can be skim-coated directly. For the best system result, joint filling and the reinforcement layer are carried out using conluto Clay Adhesive and Reinforcing Mortar (Art. No. 10.014). First, all joints and fixing plates are pre-filled. After complete drying, the mortar is applied over the full surface using a notched trowel (10–12 mm). The conluto reinforcement mesh (Art. No. 35.005) is pressed flat with 10 cm overlaps. Fully cover the mesh and smooth the surface neatly.

## Surface Finish

Once the reinforcement layer has dried, surface finishing can begin. Classic finish with conluto Clay Fine-Finish Plaster (Art. No. 10.013/.1), conluto Casein Primer (Art. No. 00.990.5) and then two coats of conluto Clay Paint or Brush-Applied Clay Plaster (Art. No. 19.400.2–19.444.2). Alternatively with Deco Clay Facing Plaster in 16 colours (Art. No. 19.300–19.345), conluto Clay Wall and Surface Filler (Art. No. 19.700–19.708) for surfaces up to Q4, or conluto Clay Smoothing Plaster (Art. No. 19.601–19.612). Refer to the „Surface Finishing“ Technical Data Sheet.

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This technical data sheet reflects our current state of knowledge and experience. The information provided is intended as technical guidance for the trade and end users. It does not constitute a legal claim nor does it imply any obligation or liability. It does not replace the applicator's own assessment of the suitability of the product and substrate in each individual case. This data sheet becomes invalid upon reissue or product modification.