

Clay Board

Technical Information Sheet

Clay board is a composite board consisting of clay, reed and hessian. The reeds from managed reed beds run along and across the board length and the board is faced on both sides with hessian. This acts as reinforcement and a plaster key. The constituents are mixed wet and formed into panels then cut to length and width.

Consistency of the product is monitored by quality tests carried out by the manufacturer

- Tests of physical properties to ensure suitability of clay.
- Visual inspection of reeds and hessian before manufacture.
- Visual checks for damage & flaws before snipping

Clay board is available in the following sizes:

Product Code	Thickness mm (+/- 5%)	Width mm (+/- 5%)	Length mm (+/- 5%)	Board Weight Kg (+/- 30%)	No. of boards/pack
ECB25	25	625	1500	11.7	10

Design

Clay board is suitable for internal use in drywall construction on walls and ceilings it is a practical alternative to using gypsum plasterboard and lath-and-plaster and is compatible with clay or Lime-based plasters.

The application of clay products in general influences the internal building environment by regulating temperature, absorbing moisture and odours and insulating against sound transfer.

Physical properties of boards

- Density 500Kg/cu m (12.5kg/sq m)
- Thermal conductivity 0.14 W/mk
- Vapour resistivity To be advised
- Vapour diffusion resistance factor (ref air) 10 microns
- Water Absorption (@100% RH) To be advised
- Capillarity To be advised
- Sound absorption To be advised

Support

- For use on walls, Clay board must be screwed to supports spaced at not greater than 600mm centres.
- For use on ceilings, Clay board must be screwed to supports spaced at not greater than 400mm centres.
- The boards must be continuously supported along all edges.
- The strength and stiffness of the supports must be appropriate to the position and function of the wall within the building.
- It is not recommended that the boards are fixed to a solid wall using plaster dabs

Finishes

- Clay board is hessian faced on both sides which forms a key for plaster
- Joints between boards should be scrimmed with hessian or cotton scrim. Fibre tape may be used but should be plastered on.
- The boards can be skimmed using a 2-3mm thick coat of lime or earth finish plaster. The surface of the boards may be lightly wetted to retard drying.
- The boards can receive a direct paint finish if required. A dilute sealing coat is recommended

Resistance to Damage:

- Precautions common to good drywall construction practice should be taken to avoid damage to the installed board
- Vulnerable edges and corners should be protected.

Resistance to Moisture:

- The boards will deteriorate if kept in prolonged contact with water or used unprotected in damp environments.
- Contact the supplier for advice on particular applications

Resistance to Fire:

- Ceiling of 25mm Clay board and clay plaster finish is rated F30 in accordance with DIN4 102 Pt2 (09/1977)
- Non load-bearing partition wall of 25mm Clay board and clay plaster finish both sides is rated F30 in accordance with DIN4 102 Pt2 (09/1977)

Fixing to Clay boards

- Light loads can be carried directly by the board using drywall fixings
- Heavier loads should be fixed through to the wall framing.

Thermal/Moisture Movements:

Clay boards are dimensionally stable when used in normal internal conditions and as part of a 'breathing' wall construction.

Installation

Cutting:

- Clay board can be cut with a fine-toothed handsaw, a circular saw or hand saw.
- Cut edges don't unravel.

Fixings:

- Clay boards can be fixed to the substrate using zinc-plated countersunk screws with 15mm diameter washers.
- Fixings must be at not less than 150mm centres along board edges.
- Fixings must have a minimum edge distance of 20mm.

Site Notes

- Clay boards have easily damaged edges and can be broken by rough handling
- They should be stored flat, raised off the ground on wide bearers, protected from damp in stacks not more than (20) boards high.

Health & Safety

There is a risk of inhalation of dust when Clay board is cut using a saw.

If you have any questions or queries please do not hesitate to contact Womersley's Limited on Tel 01924 400651 or call in at our workshop.