Product sheet

CLAYTEC®
Building with Clay

Reed boards
Item No. 34.010, 34.020

- Natural building material for interior insulation
- Strong and stable

Construction panels made of wire-quilted reeds for interior walls and for the improvement of thermal insulation and the surface temperature of exterior walls. This traditional natural insulation product has been used for many years for simple interior insulation. Its properties and materiality are especially well suited for the conservation and restoration of historic buildings.

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

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Application Interior construction and lath boards with a thermally insulating effect. Track record for many years as planking for drywall constructions and as a substrate for clay plasters. In 20 mm thickness, as a flexible lath board for vaulted ceilings.

Composition Boards of natural reed stems. Bound together with galvanised iron wires (support and quilting). Wire support approx. every 20 cm crosswise to the stems, quilting approx. every 5 cm.

Material parameters Bulk density approx. 145 kg/m (thermal conductivity approx. 0.065 W/mK, μ 3-5) The values may fluctuate depending on the annual growth (harvest quality); the measured values illustrate the most unfavourable case.

Dimensions Width 1.0 m (stem length), length 2.0 m. Thickness 50 mm (34.010) and 20 mm (34.020), size between outer edges of the wire loops.

Supply form Stacked on pallets.

Storage Store in a dry and well-ventilated place, not under plastic. Protect carefully against moisture and condensation during transport and storage.

Material needs When calculating amount required, allow about 10% extra for wastage etc.

Processing Reed boards can be cut with a jigsaw, handheld circular saw or cutting disc. The wires that run crosswise to the stems are cut with side cutters. Because of the quilting they can only be cut in 5 cm steps.

Reed boards are pressed into a mortar bed of plastic clay undercoat plaster to ensure all-over contact and fastened in place every m^2 with 5 galvanised screws (plus washers with a diameter of 25 mm) or lightweight board pins.

They are fastened to dry construction substructures with screws and washers. Substructure grid, crosswise for 50 mm board, max. 50 cm, for 20 mm boards, max. 37.5 cm. The panels are abutted against the substructure.

Subsequent processing The plaster is applied with no pre-wetting and the mortar should not be too stiff. Plaster structure: two layers with reinforcing mesh.

Notes The minimisation of microorganisms such as spores and bacteria in the material that ensures its high quality is achieved by simple methods that are common in agriculture (air-dry storage after harvesting, visual check before processing). Compliance with particular values cannot be guaranteed.

The boards are normally used as plastered construction boards that are not exposed to a fire load. Any use without a plaster cover should be examined critically in terms of fire protection.

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