



## **Thermal Insulation Boards**

# Thermal Insulation Boards

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Clay is the most ancient of building materials.

Clay is a simple, durable and adaptable material.

Flexible yet strong, fire, rot and termite proof, cool in summer and warm in winter.



## Description

Interior (dry wall) construction board made of coir reinforced clay.

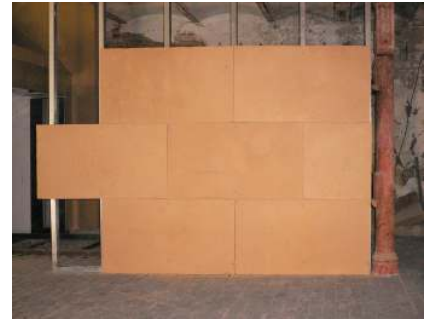
Thermal insulation boards have a positive effect on the room climate such as moisture absorption, vapour diffusion, odour-binding, providing a thermal mass, and shielding of high-frequency electromagnetic radiation.

## Usage

Thermal Insulation Boards are the professional and healthy alternative to the standard gypsum board.

24 mm boards can be used instead of conventional gypsum boards as interior wall mounting on timber stud frame constructions or dry bare brick, concrete and timber walls. They are also suitable for droops and ceilings with strengthened substructures and for attic constructions.

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## Installation

The thermal boards can be easily cut to size with a tungsten jig saw or tungsten circular saw, Wearing a protection against dust is recommended.

The thermal boards can be mounted with screws or glued. Two persons are necessary for lifting and holding each board in place.

## 24mm Boards

On vertical sub constructions, slat constructions or light constructions the 24 mm thermal board should be fixed with screws.

Each board is fixed with up to 9 screws (anodized screws or stainless steel screws, 3.5 mm x 45 mm) on the supporting construction. On ceilings and underroof construction, up to 15 screws are applied using an additional metal washer.

The screws should be fixed until they are even with the thermal board surface (sinking of the screw into the thermal board of 1 to 2 mm is acceptable). For application in sanitary rooms, the screws should be corrosion-free (galvanized screws are not sufficient in this case).



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## Surface Finishing

The boards need to be slightly watered. Afterwards a reinforcing mesh (eg. Fibre glass) soaked in thinned base coat clay plaster is applied onto the whole surface.

On top of the armouing another layer (3-5mm) of base coat clay plaster is applied to equalize the surface.



After 2-3 days drying time the surface is ready for fine rendering with finishing clay plaster or for painting.

Recommended is VOLVOX Clay Décor as it has the same physical qualities of clay itself. If other paints are used they must be permeable to vapour more than 95%.



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## Technical Data

Specific weight  $1200 \text{ kg/m}^3$  (providing a non-combustible mass).

Weight:

24 mm clay construction board  $29 \text{ kg/m}^2$

Compression strength:  $> 2.5 \text{ N/mm}^2$ .

Thermal conductivity:  $0.47 \text{ lambda W/mK}$ .

Tolerated deviation in length and width: 2-3 mm.

EU Building Material Category: A1.

### Storage

In a dry place, the thermal insulation boards can be stored without time limit. Always store horizontal, not upright or leaned against a wall.

### Disclaimer

We highly recommend the fixing and finishing of thermal insulation boards to be done by experienced tradesman in rendering and finishing walls and ceilings.

### Contact Details

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