HEMSPAN®
BIO BOARD

CONSTRUCTION BOARD
TECHNICAL SPECIFICATIONS

Bio Board is a 100% natural product consisting of straw and minerals. This non load-bearing board is free from formaldehyde and has a flame retardency of B-s1,d0.

The pure natural material, water absorbency and breathability contributes to a healthy living environment.

Characteristics
Low flammability
Biodegradable and recyclable
Mould & water resistant
Low embodied energy & CO_2 binding

Applications
A non load-bearing board (medium cast colour)
highly efficient for interiors suitable for use in dry and damp rooms

Preparation
The board can be cut with a conventional compass saw, band saw, disk saw and ribbon saw. Due to the dust that occurs, it is recommended respiratory protection is worn.

Features	Standard	Measured
Dimension	-	1200 X 800mm
Thickness	-	19mm
State of surface	-	smooth
Uniformity of thickness smoothed	EN 300	±0.3mm
Apparent density	DIN EN 323	ca. 650 kg/m^3
Thickness swell	DIN EN 317	0.29%
Edge shape	-	blunt
Change in length	EN 300	±0.3mm
Squareness	EN 300	±0.3mm
Thermal conductability	EN 12664	0.115 W/mK
Behaviour in fire	DIN EN 13501-1	B-s1 d0 Class
Transverse tensile strength	EN 319	0.32 N/mm^2
Formaldehyde	AgBB 02/2015 VVOC-,VOC and SVOC-emission	A+
Water vapour permeability sd	DIN EN 12086	0.10m
Water vapour resistance factor	DIN EN 12086	5.3µ

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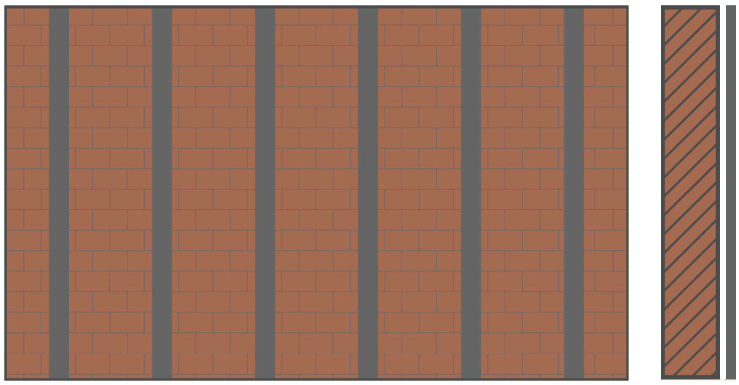
INSTALLATION INSTRUCTIONS



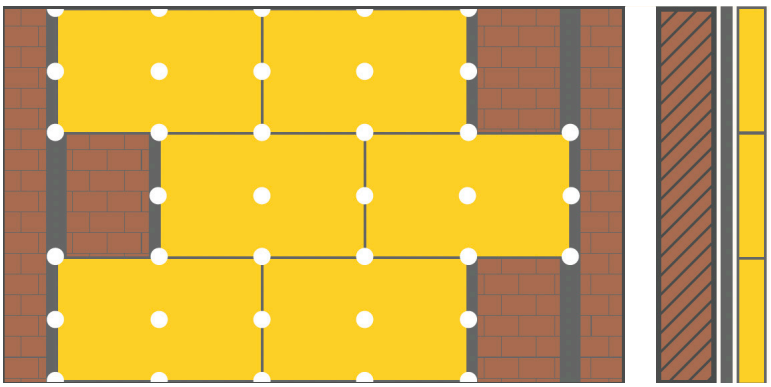
1 Ground and substructure

1

Setting up the substructure by using standard technology for drywalls (vertical timber stud or metal stud work)

Stand space width at a maximum of 600mm

For lining ceilings and sloping roofs keep a stand space width of maximum 400mm



2 Installation of the construction

2

Installing a circulating expansion joint (ceiling, wall, floor) of 5-10mm, filling it with suitable material (e.g. darning hemp, cork etc)

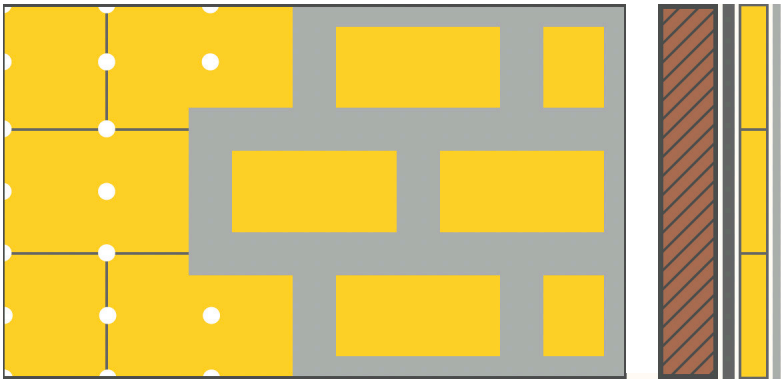
Put the boards in a composite, in that process vertical joints should not stand on top of each other

If panel joints end in the space between the stands, put a noggin behind the joint and screw it together

Mounting the board with screws at 9 mounting points (material: corrosion-free mounting material for damp rooms, galvanised wood screws)

For horizontal ceilings and sloping roofs use screw and washers at 12 mounting points

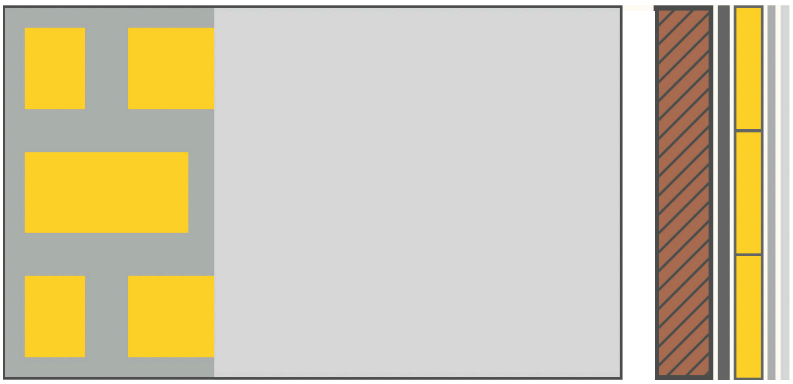
The screws should be flush with the surface of the boards



3 Armouring

3

Apply web strips (glass fibre or flax web) on the ready installed board and coat it with a thin layered diffusion-open cast (lime, loam, etc.)



4 Applying the coating

4

Fill in 2-3mm layer all over with adhesive mortar

For additional support for the composite armouring web can be applied all over in the sub plaster layer

As soon as the plaster has dried the surface can be rubbed, felted or smoothed

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