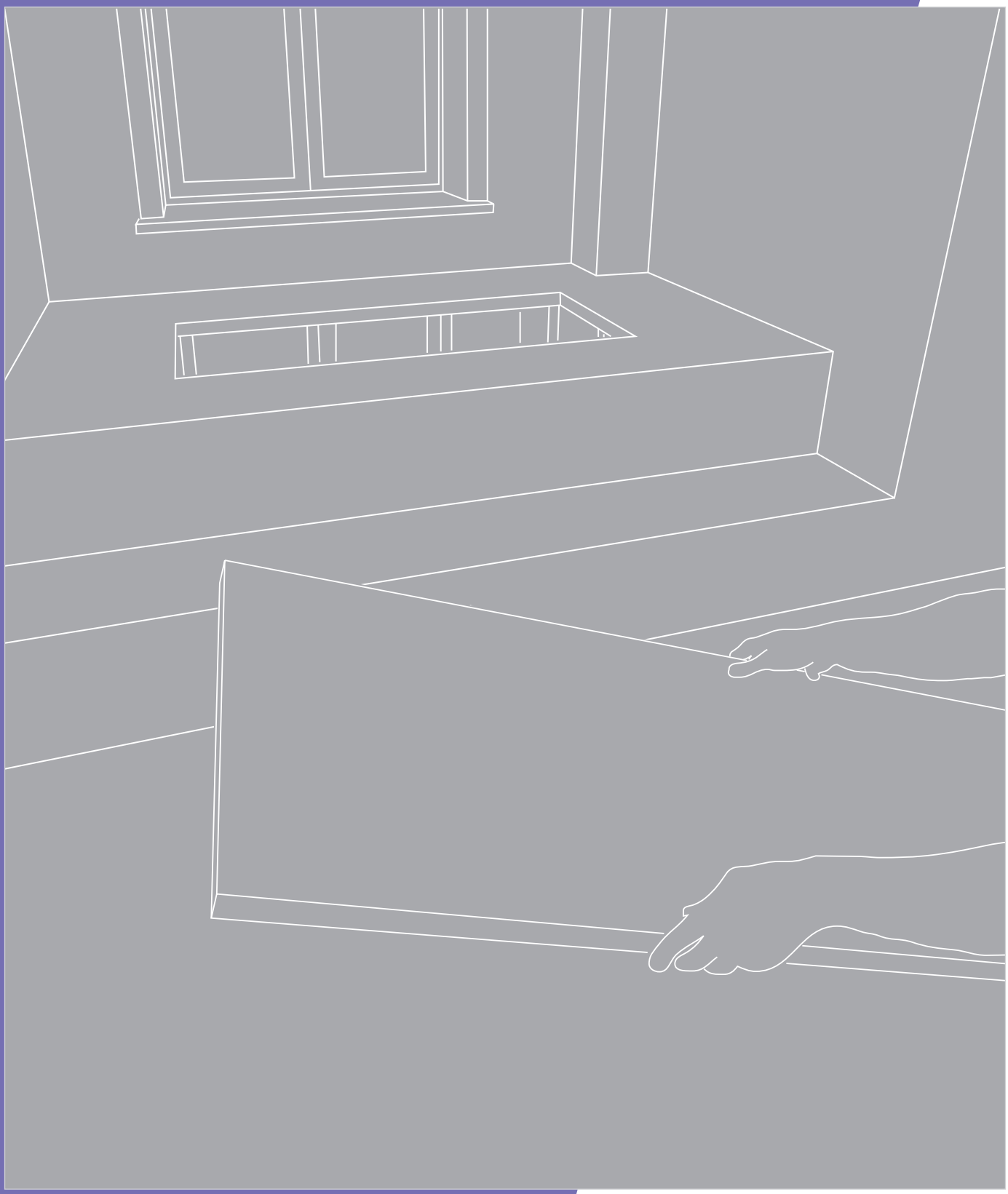
JACKOBOARD® Plano

Construction board for floor applications.



Installation Instructions

JACKON by BEWI

A General

A. 1 Scope

These installation notes describe how to use and install JACKOBOARD® Plano construction boards as substructures for tiles for indoor applications. Notes are included for planning and executing normal applications in residential construction. The recommendations apply solely to applications in domestic areas and not for heavy commercial applications, e.g. where rolling loads or severe concentrated loads may occur. Since the installation notes are intended for rooms with normal temperatures, the manufacturer should always be consulted prior to using JACKOBOARD® Plano construction boards for special applications, e.g. swimming baths, cold storage areas, etc.

A. 2 Storage and use

JACKOBOARD® Plano construction boards should always be stored flat, irrespective of thickness. They must be protected against direct sunlight, rain and moisture.
Any use of agents using solvents must be avoided.

A. 3 Substrate Preparation

The substrate must be able to support the intended load with minimal deflection. Any surface contamination must be removed prior to installation. If necessary the surface should be treated with a primer. Newly installed concrete substrates should be completely cured prior to installation. Wooden substrates must be rigid, not floating or elastic, (deflection max. l/300), able to support loads, dry, and free of dirt or harmful infestation. Loose boards or planks must be screwed down again. To avoid cracks forming in the tiles or grout lines care must be taken to ensure that the moisture content of any timber substrate equates to its equilibrium moisture content since the deformation of the wood as a result of the drying process could otherwise cause cavities to form beneath the construction boards.

B Application

B. 1 Use on cement based substrates

The substrate might need to be primed for bonding the construction boards. Then level the substrate with levelling compound if necessary. After the layers described above have cured, bond the construction board onto the prepared substrate over the entire surface with a Class C2 tile adhesive / flexible adhesive. No cavities may remain under the construction board. The tile adhesive is usually applied with an 8 or 10 mm notched trowel. Move the construction board around to bed it into the tile adhesive. Lay the tiles with staggered joints.

The joints of the individual construction boards must be smoothed over with the JACKOBOARD® glass fibre tape (or equivalent) using tile adhesive.
In wet areas, the board joints and penetrations must be sealed. Sealing can be done with the JACKOBOARD® 2-component sealing kit (or equivalent) or with the adhesive and sealing agent BOARD-FIX® (or equivalent).

The JACKOBOARD® glass fibre tape is also required for bridging cracks when sealing with BOARD-FIX®. Refer to Point 7 for more information. We recommend covering the entire construction board surface with an additional layer of reinforcement weave. The construction boards must not be reinforced until the thin-bed mortar used to bond the construction boards to the substrate is completely dry.

B. 2 Use on timber substrates

JACKOBOARD® Plano can only be used on constructions similar to timber shuttering. It is not recommended to work on a pure wooden bench construction.

The specifications for the substrate must be observed (see Point A. 3). To bond the construction boards, the substrate must first be pre-treated with a suitable primer (e.g. quartz sand primer). Then level the subs rate with levelling compound if necessary.

After the layers described above have cured, bond the construction board (minimum thickness 10 mm) onto the prepared substrate over the entire surface with a Class C2/S2 flexible tile adhesive (flexible adhesive) (in accordance with DIN EN 12004). The tile adhesive is usually applied with an

8 or 10 mm notched trowel. The JACKOBOARD® Plano board is bedded firmly in the flexible adhesive by gently pushing it back and forth. The construction boards should be laid with staggered joints. After the flexible adhesive has completely cured, the construction boards must be additionally secured with universal screws and stainless steel JACKOBOARD® insulation board discs (or equivalent). At least five screws are needed for each m^2 and they must be screwed to a depth of at least 20 mm into the timber structure. The screws should be spaced at least 30 mm from the edge of the construction board. The screws must be tightened, until the head is flush with the surface. The construction board can be slightly indented with a hammer before fastening the screws to ensure that the insulation board discs do not protrude above the surface of the construction board. Reinforcement and sealing of the construction board joints must be done as described in Point B. 1.
We recommend reinforcing the entire construction board surface with an additional layer of protective weave when installing on wooden substrates. The JACKOBOARD® Plano construction boards must not be reinforced until the thin-bed mortar used to bond the construction boards to the substrate is completely dry.

C Notes for fixing tiles to JACKOBOARD® Plano

The floor tiles should measure at least 10 x 10 cm and be at least 7 mm thick. The tiles can be glued directly onto the construction board with Class C2 tile adhesive / flexible adhesive (in accordance with DIN EN 12004). Care must be taken to ensure that the joints between the wall and floor covering and the corner joints of the wall covering are expansion joints. Expansion joints in screed, or building separation joints that serve the purpose of field definition, must comply with the regulations governing floating screed.

D Working instructions for JACKOBOARD® Plano used as a board-shaped sealing system in combination with tiles and board coverings in accordance with the ETA.

The construction board can be used as a board-shaped sealing system for sealing walls and floors in wet rooms. Its suitability for this was confirmed upon receipt of the European TechnicalAssessment ETA and the associated CE mark. Special usage guidelines apply to this application which are described below.

D. 1 Sealing the board joints

The construction board can be worked in the floor area, as described above. The butt joints of the construction boards and the penetrations through the construction board must always be sealed. Sealing can be done with the BOARD-FIX® adhesive and sealing agent included in the kit or with the JACKOBOARD® 2-component sealing kit..

Version 1: Sealing with BOARD-FIX®
When sealing with BOARD-FIX®, the BOARD-FIX® is applied in strands from the cartridge to the longitudinal or transverse side of the JACKOBOARD® Plano construction board. Then press both construction boards firmly together so that any material that oozes out can be smoothed out. To prevent imperfections, make sure the adhesive is applied without any gaps, especially where joints may cross, e.g. at transitions from floor to wall. The bonding is foam to foam. In corners, it might be necessary to remove the mortar from the construction board in the bonding area. Then smooth over all tile joints with JACKOBOARD® glass fibre tape using the tile adhesives listed in the ETA.

Version 2: Sealing with a sealing kit:
As an alternative to BOARD-FIX®, sealing can also be done with the JACKOBOARD® 2-component sealing kit.
This is done in accordance with the working instructions for "JACKOBOARD® 2-component sealing kit".

D. 2 Sealing pipe penetrations

Version 1: Sealing with BOARD-FIX® and sealing sleeve.
To do this, first spray the joint between the pipe and the construction board with BOARD-FIX®. In addition, push a suitable sealing sleeve onto the pipe and glue it to the construction board surfacewith BOARD-FIX® over its entire surface.

Version 2: Sealing with JACKOBOARD® 2-component sealing kit and sealing sleeve.
To do this, push a suitable sealing sleeve onto the pipe and glue it onto the construction board surface with 2-component sealant over the entire surface. Then make a 2nd application of the 2-component sealant on the top side of the sealing sleeve and in the transition to the construction board surface.

D. 3 Sealing screw and plug fastenings

Version 1: Sealing with BOARD-FIX®
Smooth over the construction board surface with BOARD-FIX® in the entire insulation board plate and metal plug area.

Version 2: Sealing with JACKOBOARD® 2-component sealing kit
Stick on a piece of sealing tape with 2-component sealant in the area of the metal plug and insulation board plate. Then make a 2nd application of the 2-component sealant on the top side of the sealing tape.

D. 4 Sealing floor drains with a metal or plastic bonding flange

Version 1: Sealing with BOARD-FIX®
To do this, cut a hole out of the sealing sleeve to fit the clamping flange. Then bond the sealing sleeve with BOARD-FIX® over the entire surface to the bonding flange and the construction board surface.

Version 2: Sealing with JACKOBOARD® 2-component sealing kit and BOARD-FIX®
To do this, cut a hole out of the sealing sleeve to fit the clamping flange. Bond the sealing sleeve onto the bonding flange with BOARD-FIX®. Glue the rest of the sleeve onto the surface of the construction board using the 2-component sealant. Then make a 2nd application of the 2-component sealant on the top side of the sealing sleeve and in the transition to the construction board surface.

D. 5 Sealing floor drains with a clamping flange

Version 1: Sealing with BOARD-FIX®
To do this, cut a hole out of the sealing sleeve to fit the clamping flange. Then fix the sealing sleeve in the clamping flange with the clamping ring. Glue the remaining part of the sealing sleeve onto the entire surface of the flange and construction board with BOARD-FIX®.

Version 2: Sealing with 2-component sealing kit
To do this, cut a hole out of the sealing sleeve to fit the clamping flange. Then fix the sealing sleeve in the clamping flange with the clamping ring. Glue the remaining part of the sealing sleeve onto the flange and construction board surface with the 2-component sealant. Then make a 2nd application of the 2-component sealant on the top side of the sealing sleeve and in the transition to the construction board surface.

D. 6 Repair

Damage to the surface of the construction board or shower element can be repaired with BOARD-FIX® or with the 2-component JACKOBOARD® sealing kit. To do that, the damaged area of the construction board is filled with BOARD-FIX® or the 2-component sealant from the JACKOBOARD® 2-component sealing kit and smoothed level with the surface. In conjunction with the 2-component sealant, also stick on a piece of sealing tape with the 2-component sealant in the damaged area. Then make a 2nd application of the 2-component sealant on the top side of the sealing tape and in the transition to the construction board surface.

D. 7 Tiling

The construction boards can be tiled after the seals described above have cured. For that, the tiles can be bonded directly onto the construction boards without further pre-treatment. Only the tile adhesives listed in the ETA may be used.

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Please note
The information in this leaflet is based on our experience and current materials specification. It represents no specific guarantee and the instructions for use outlined should be always observed together with considerations regarding building structure and existing Building Law.