Installation Guidelines

Gerbür
Global Flooring Solutions

AQUA-CLICK | VISION | NATURE | Essential

INTRODUCTION

Installing Gerbür is straightforward and follows the same guidelines that apply to all quality resilient tile floors. Good preparation is essential as the finished appearance of the floor will only be as good as the quality of the base and preparation over which it is installed. The base should be hard, smooth, clean and dry and free from defects. The surfaces should be even in order to achieve good fitting and adhesion. Any irregularities in the sub-floor will show through the finished floor.

The guidance notes provided by Gerbür are intended to give general information on the methods that can be used to prepare various sub-floor types.

SURVEYING

Suitability of sub-floors and site conditions must be assessed prior to beginning an installation to ensure that they are in accordance with Gerbür and sub-floor manufacturers' guidelines and national standards. Gerbür products are not suitable for external installation or unheated locations.

PREPARATION OF SURFACE

The quality and preparation of sub-floors, testing for moisture content and relative humidity, and installation procedures must be in accordance with Gerbür technical guidelines and BS 8201, BS 8203 and BS 8204.

INSTALLATION OF MATERIAL

Handle, store and acclimatise product according to Gerbür recommendations. Installation must not begin until all other trades have been completed.

The appropriate adhesive is required for all installations involving Gerbür products. Adhesive selection should be made according to the specific site conditions.

RECEIVING MATERIALS, CONDITIONING & STORAGE

Before laying flooring, all materials must be checked to ensure that the batches are identical and free from defects. Complaints with regard to clearly identifiable defects cannot be accepted once the flooring has been laid.

Boxes of tiles should be removed from pallets and separated from one another as part of the acclimatisation process.

Ensure that the heating/air conditioning is fitted and operating. Alternatively, temporary heating or cooling may be used to maintain a constant temperature within the specified range.

Tiles, adhesive and sub-floor must be allowed to stabilise to a constant temperature between 18°C-27°C for a period of at least 24 hours before, during and after installation. If tiles and adhesive have been stored outside of this temperature range, then it is recommended that acclimatisation between 18° C-27°C is increased to 48 hours. Tiles must be stored flat and kept away from direct sunlight, heaters or air vents for proper conditioning.

MOISTURE IN SUB-FLOORS

Moisture testing of all sub-floors is essential before installation can begin. This is true of new and old buildings. Moisture testing must be carried out and recorded. All moisture tests must be undertaken in accordance with BS 8203 and using an appropriate method to suit the sub-floor type.

The sub-floor may be considered dry when the relative humidity is 75% or below. If readings are above this level, a surface damp proof membrane can be applied. Consult manufacturers for instructions. Alternatively sub-floors can be given sufficient time to dry.

PREPARING A SUB-FLOOR TO RECEIVE TILES

1. SOLID SUB-FLOORS

Concrete/Sand and Cement

Tiles must only be installed on suitably dry concrete or sand and cement sub-floors. Drying time will depend on several conditions, including thickness of slab, location, type of construction, temperature and humidity. New concrete bases contain a high percentage of residual moisture.

Sub-floors must be thoroughly mechanically cleaned of all paint, curing agents, grease, wax and any other foreign matter. The use of solvents to remove surface contaminants is not permitted.

The floor must be hard, smooth, level and free from cracks. Use a suitable repair compound to fill grooves, cracks, holes and depressions. A levelling compound should be applied. Please refer to section titled Levelling Compounds for Solid Sub-floors.

Power Floated Concrete

Power floated concrete has a relatively non-absorbent, low porosity surface which will increase the drying time. It is not a suitable surface for direct application of adhesive. Surface laitance may also be produced by the power floating procedure. For these reasons, it is recommended that an appropriate method of mechanical preparation such as shot blasting or scarifying is used to prepare the surface.

A levelling compound should be applied. Please refer to section titled Levelling Compounds for Solid Sub-floors.

Anhydrite

Anhydrite screeds can be difficult to identify and can be mistaken for the more traditional cement based products.

Provided ambient conditions are acceptable, anhydrite screeds dry at a similar rate to their cement-based counterparts. In the case of the floor screed not being sufficiently dry please consult the manufacturer on how to proceed, in most cases the screed should be allowed to dry out to an acceptable level.

When the floor is sufficiently dry a levelling compound should be applied. Please refer to section titled Levelling Compounds for Solid Sub-floors.

Asphalt

Mastic asphalt is normally applied between 15 and 20mm thickness and sets to a dense hard mass which is impermeable to moisture and therefore forms an efficient damp-proof membrane. Mastic asphalt is often applied over an existing concrete base which lacks a conventional DPM. If the asphalt is cracked or damaged it will need to be repaired and damp proofing may be required.

The asphalt will need to be cleaned before a levelling compound is applied. Please refer to section titled Levelling Compounds for Solid Sub-floors.

Levelling Compounds for Solid Sub-floors

Most solid sub-floors will require an application of a levelling compound to provide a hard, smooth and level surface to which adhesive and tiles can be applied.

The selection of a suitable levelling compound is critical in determining the long term durability and appearance of the flooring system. Generally levelling compounds should be applied at a minimum of 3mm thickness. The manufacturer of this compound can supply details of the product within their range that should be used to suit the end use application together with details of which primer should be used.

Expansion Joints

Expansion joints are incorporated into concrete floor slabs in order to permit movement without causing cracks to form. These joints should not be filled with smoothing compound or overlaid with Gerbür floor coverings. In all cases they should be mirrored through to the surface.

2. TIMBER FLOORS

Existing Floorboards
Loose floor boards should be firmly nailed down and any damaged boards replaced. If necessary, the boards should be planed and/or levelled with a suitable levelling compound prior to covering with plywood. See section on Plywood Overlays.

Wood sub-floors that exhibit excessive deflection, or are "springy" or "give" when walked on are not suitable for installing Gerbür unless suitable remedial work is carried out.

Chipboard, Hardboard, Particleboard
Tiles should not be adhered directly to such sub-floors whether they are free floating or fixed, and floors should always be overlaid with plywood prior to installation of tiles. See section on Plywood Overlays.

Wood Block Floors
Existing wood block floors laid onto a concrete base are unsatisfactory as an underlayment for resilient floors, even when plywood has been fitted. Such floors must be lifted and the sub-floor levelled.

Plywood Overlays
Plywood should be a minumum of 6 mm thickness Class 3 exterior grade, glue bond EN 314-2:1993. The thickness selected should be determined by the quality of the surface being covered.

Panels should be acclimatised to the site conditions as recommended by the supplier. Plywood should be protected against damage or water prior to application.

The plywood should be laid in sheet sizes not exceeding 2400 x 1200 mm, and fixed using screws, twisted shank or ring shank nails, serrated or divergent staples. Fixing should start at the centre of each sheet – nailing, screwing or stapling at 150 mm intervals at intermediate centres and at 100 mm centres along the perimeters with the fixing line 12 mm from the edge. All fixings should be finished flush with the surface.

Joint lines should be staggered, and every effort made to prevent coincidence of joints in the sheets and the timber base.

We would recommend the use of a suitable compound to ensure the joints of the plywood and all fixings are not visible when the installation is complete. The manufacturer of this compound can supply details of the product within their range that should be used to suit the end use application together with details of which primer should be used.

OTHER SUB-FLOOR TYPES

Existing Resilient Floors
It is recommended that Gerbür are not directly applied over existing resilient floors. Generally, the old flooring should be removed and as much of the old adhesive scraped away by hand or using an appropriate mechanical method. Under no circumstances should solvents be used. NB: Some resilient tiles and adhesives can contain asbestos. In case of doubt, contact the relevant local authority for advice on their removal and disposal.

Terrazzo, Stone, Quarry tiles
Some existing flooring materials such as quarry tiles, ceramic or terrazzo may be suitable for the installation of Gerbür if properly prepared. These bases may be sufficiently porous to allow moisture to pass through to the back of the tile, and must be checked for moisture and damp-proofed if necessary. Worn and damaged areas must be repaired, including any tiles that are insecure, which must be removed.

The surface must be thoroughly cleaned of all sealants and varnishes, as well as foreign matter such as oil, grease, wax, etc. It is recommended that a suitable mechanical method is used to prepare the surface, as this will also provide a satisfactory surface to accept a levelling compound. Please refer to section titled Levelling Compounds for Solid Sub-floors.

Metal
Indirect Application
The metal surface should be cleaned/degreased and then prepared by grinding or scarifying to ensure that it is clean and free from any contamination, such as rust or metal oxide. It should then be mechanically abraded to give a surface key.

A suitable primer should be applied to the metal surface prior to putting down a suitable levelling compound, which must be applied as recommended by the manufacturer.

Once the levelling compound has dried, any adhesive from our range can potentially be used subject to the restrictions described in the Adhesive Section.

Raised Access Floors
Gerbür cannot be fitted directly to raised floor panels. Where this is required, the panels should be level and stable, and then overlaid with plywood, using appropriate fixings to suit the panels surface - see section on Plywood Overlays.

Note that Gerbür Access has been specifically developed for fitting directly onto raised access floor panels.

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Floating Installation

Step 1 - Pre-install Activities

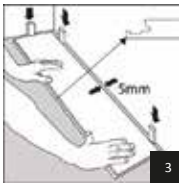
• Ensure that the width of first and last row is not less than 50 mm wide. Measure the distance of room in the direction of the width of the plank. Divide the distance by the width of the plank. Multiply the number beyond the decimal point of the by the width of the plank. This is the width of the last plank. If it is less than 50mm, you must cut the first plank. Determine the width of the first and the last row by adding the calculated width of the last plank to the width of a whole plank. Divide this number by two. Subtract the expansion gap from the result. The result is the width of the first and last row.
• Rack up planks from several boxes.
• Ensure that end joints are staggered at least 300mm between the rows.
• Inspect

Step 2

• Cut off the unsupported tongue of the first row so that a clean, solid edge is towards the wall.
• If the first row of floor panels had already been trimmed in width to meet minimum requirement, there is no need to trim it again.

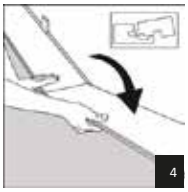
Step 3

• Install the product from left to right, across the room.
• Place the floor panel with the locking groove facing the room.
• Ensure there is expansion gaps. Between floorand the wall and all vertical fixtures during installation.



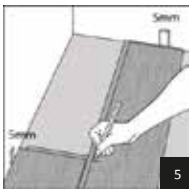
Step 4

• Place the short side tongue of the next floor panel at an angle into the short side groove of the first one and fold down.
• Continue with the next floor panels in the same way.



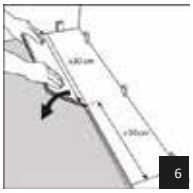
Step 5

• Place the final floor panel face up, locking groove long side towards the wall, and the short end tongue posi-tioned 5mm to 8mm from the wall.
• Mark the place where the floor panel is to be cut.
• Make a cut in the floor panel on the decor side with a utility knife. Use the snap method to break the unneeded part off.



Step 6

• Stagger the end joints between rows at a minimum 300 mm.
• If you can, use the cut piece of floor panel from the previous row. If not suitable, take a new floor panel and cut it in half.
• Place the floor panel at a low angle and insert the long side tongue into the locking groove of the floor panel in the previous row.
• Fold the floor panel gently down.

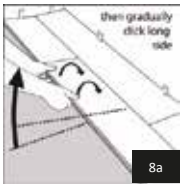


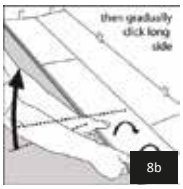
Step 7

• Place the short end tongue of the next floor panel at an angle against the previously installed floor panel and fold gently down.
• Ensure that the long side tongue is positioned on the locking strip of the previous row.

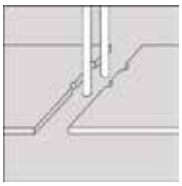
Step 8

• Using gentle force and at an angle, you gradually, from left to right, push the long side tongue into the locking groove of the previous row.
• You may need to lift the floor panel to the left of it slightly to allow for the 'sliding action'.
• Complete the whole row in the same way.





Note:



Expansion gaps around pipes.

• Measure the diameter of the pipes and mark the position on the floorboard. There should be a 5mm to 8mm expansion gaps between the floor panel and the pipe or other vertical structures.
• Cut out the holes.

Door frames may have to be undercut.

• Use a floor panel as a guide as to how much to saw.
• Put the floor panel faced down as a guide.
• Saw off the bottom of the door frame to allow the floor panel to slide under it.

Glue Down Installation

Installation Overview

• The main difference between floating and glue down method is the additional spreading of the glue on the subfloor.
• Do not spread glue on more area than you can work with.
• An area the size of two installed rows is a good starting area.
• The steps described in the floating installation are the same for glue down installation.
• Always follow adhesive manufacturer's instruction.

IInstallation Procedure

• Spread the glue width of two initial starter rows.
• Install the first row of planks.
• Install the second row. Ensure you are locking the edges.
• Spread another section of glue.
• Install another two rows.
• Repeat spreading glue/install planks cycle until all flooring has been installed.