

## Storage & Transportation

Boxes should be stored and transported on a flat surface in neat stacks - always store the boxes flat and never put them upright/on-end. Do not store the boxes in very cold (less than 0°C) or very warm (more than +35°C) or damp places.

## Prior to Installation

### Visual imperfection

Please ensure the product is inspected and checked for damage, defect, or variation prior to installation in adequate light conditions. Check that the colours correspond to those ordered, the quantities are correct and there is no visible damage to the boxes. Check the Maverick panels during installation for any visible defects. Do not install any panels that display any imperfections. We recommend that you always use materials from a single production batch for each installation, as we cannot guarantee a shade match between different batches. Be aware that some designs have a natural variation within them. We also recommend that the product is mixed or shuffled between different boxes. For defects that are visible prior to installation, Plusfloor will never assume responsibility for the uplift & relay costs. Installation implies acceptance.

### Suitability

Maverick can be laid on concrete, cementitious screed, anhydrite (calcium sulphate), timber, plywood, particleboard and ceramic tiles, raised access floors, that is reasonably flat and smooth or have been suitably prepared (see Floor Preparation). Maverick can be used with traditional water-based underfloor heating and cooling systems. See separate section on underfloor heating. The subfloor surface temperature must never exceed 27°C.

Maverick is only suitable for indoor installation.

Seasonal temperature conditions: Maverick can be used in most situations, such as temperature-controlled conservatories and holiday homes. Keep the temperature between 6°C (min.) and 35°C (max.). Where temperatures are outside of this range, installation may still be possible. Special care must be taken to avoid hot-spots or isolated areas of prolonged exposure to direct sunlight through unprotected glass, in front of a wood burner, other direct heat source, etc. It is recommended that the floorcovering is shaded from direct sunlight and otherwise protected from any direct heat source that increases the temperature in a localised area.

The Maverick joints are water resistant (not 100% waterproof) after installation. Following the installation instructions carefully makes the floor fit for use in bathrooms, kitchens, laundry rooms and entrance areas. For reasons of slip resistance, the panels are not recommended for use in wet areas, e.g. pool areas or surrounds, saunas, and rooms with build-in drains like showers. Frequent ingress of water under the floor may induce bacteria and/or mould growth.

## Composition, construction, and quality of the subfloor

Knowledge of the composition and construction of the subfloor or base provides valuable information that allows you to correctly check the acceptable humidity, flatness, compressive and tensile strength of the subfloor. In addition, it tells you what type of floor preparation, levelling/smoothing compound, and possible moisture barrier you may need during the installation process. When there is ambiguity or doubt about the quality or composition of your subfloor, check your local installation standards and/or seek advice from your floor preparation, levelling compound manufacturer/supplier.

## National regulations & standards

Site and installation conditions must always comply with the relevant national regulations and installation standards. In case the national standard or regulation conflicts with the Plusfloor recommendation, the most stringent of the two prevails.

## Subfloor preparation

### Irregularities in the subfloor

Good preparation is essential for a trouble-free installation. It is vital for an excellent Maverick finish. The appearance of Maverick will only be as good as the quality of the base over which it is installed. Although Maverick is intended for renovation of not perfectly even subfloors, some larger irregularities, steps, sudden level variations in the subfloor may show through the finished floor and must be suitably prepared before installation.

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Unevenness of the subfloor may not be greater than 5mm measured over a length of 2m, measured with a suitable straight edge or level. Maverick is capable of bridging small holes of up to 30mm, grout-lines, joints and cracks of up to 10mm in the subfloor.

A suitable plywood/levelling compound should be selected to ensure that no sudden irregularities show through to the surface of the finished floor. However, the selection of suitable materials, including plywood, smoothing/levelling compounds and any ancillary products, is dependent upon the occupational use of the area and must be agreed by the supplier of the preparative materials and the flooring contractor. All floor preparation materials used must be used in accordance with the manufacturer's recommendations and in accordance with the national standards for resilient floorcoverings.

## The moisture content of the subfloor

- Unheated cementitious screeds less than 2.0CM% -75% RH (UK)
- Underfloor heated cementitious screeds less than 1.8CM% - 75% RH (UK)
- Unheated anhydrite (calcium sulphate) screeds less than 0.5CM%
- Underfloor heated anhydrite (calcium sulphate) less than 0.3CM%

Maverick is water resistant and has very good resistance to retained construction moisture, however, best practice should be followed to avoid bacteria and mould growth under the floorcovering.

Direct-to-earth concrete and stone subfloors must have an effective damp proof membrane (DPM) in accordance with the national standards for the installation of resilient floorcoverings. Follow manufacturer's detailed instructions for the installation of a surface applied DPM and the use of levelling compound. An overview of manufacturers and suppliers can be provided by PlusFloor.

The effectiveness of a liquid applied DPM heavily depends on the type of product, the way of application and the site conditions. It is the responsibility of the installer to get the correct advice from the manufacturer of the DPM and to apply it in accordance with their recommendations.

## Important

Floor installation should not begin until the installer has assessed and approved the subfloor and installation conditions.

## Acclimatisation

Store the planks or tiles in straight piles away from heating, cooling or windows with direct intense sunlight.

## Temperature condition before Installation

Maverick does not require acclimatisation prior to installation in standard rooms and conditions.

## Starting installation

### Temperature condition during and after installation

Maverick does not require acclimatisation prior to installation in standard rooms and conditions, see note at the end of this document (\*). However, for a trouble-free installation, we advise to keep the temperature fluctuations limited during the time needed for the installation.

### Underfloor heating

Plusfloor Maverick can be used with traditional water-based underfloor heating systems (according to standard EN 1264 part 1 to 5). Wired electrical systems are not recommended unless the system is encased in a minimum of 9mm of suitable levelling compound. Direct contact with electrical wired heating systems must be avoided. The surface temperature must never exceed 27°C. If in doubt seek further advice. Some infrared heating panels may be suitable, however care should be taken as some of these systems can provide very sudden heat gain which is not recommended. In any circumstance the surface temperature must not exceed 27°C. If in doubt seek further advice.

After installation the underfloor heating must be gradually increased by increments of 5°C per day until it reaches the standard operating temperature conditions, with a maximum subfloor temperature of 27°C. For the suitability of the system please check the manufacturer's instructions.

### Underfloor cooling

Maverick can also be installed over floor cooling systems. However, the supply temperature of the cooling water must not be reduced below the dew point temperature. Always keep the temperature of the subfloor at least 3 degrees above the dewpoint. Temperatures below this point will produce condensation and can therefore create a humid atmosphere behind the floor covering which may encourage mould growth, etc.

### Required expansion gap

Maverick is a "floating" floor. The panels should not be glued together or fixed to the subfloor. Maverick has more ability to move heavy furniture than traditional flexible LVT click floors, however Maverick has limitations: very heavy objects or furniture can prevent the floor from floating and moving freely. For example, do not put very heavy kitchen elements, wood stoves or any other very heavy element which prevents free movement directly on the floor but leave an expansion gap around the element as if it were a wall (see below). A 0.75mm expansion gap, per linear meter of Maverick is required in any direction and must be incorporated at the perimeter of the room/area in "standard rooms and conditions".

2 m	➡	1.5 mm
3 m	➡	2.25 mm
4 m	➡	3 mm
5 m	➡	3.75 mm
8 m	➡	6 mm
10 m	➡	7.5 mm

A 1.5mm per linear meter expansion joint in any direction must be incorporated at the perimeter of the room/area in extreme rooms and conditions.

2 m	➡	1.5 mm
3 m	➡	4.5 mm
4 m	➡	6 mm
5 m	➡	7.5 mm
8 m	➡	12 mm
10 m	➡	15 mm

Standard rooms and conditions are areas with temperatures between 6 and 35°C, e.g. no direct sunlight through glass in sun facing rooms (unless the glass has a very effective built-in heat-shield). Extreme rooms and conditions are areas with potential surface temperatures between 0 and 60°C, such as conservatories, non-occupied holiday homes, etc. Special care must be taken to avoid hot-spots or isolated areas of prolonged exposure to direct sunlight through unprotected glass, in front of a wood burner, other direct heat source, etc. these will not fall under the definition of ambient room temperature, variation or condition. It is recommended that the floorcovering is shaded from direct sunlight and otherwise protected from any direct heat source that increases the temperature in a localised area.

When installing in an “extreme room”, in accordance with the above definition, where the temperature during installation is above 25°C, and the product has been acclimatised, it is recommended to take the expansion gap of the “standard room” to avoid too large a shrinkage gap in colder temperatures.

## Installation Methods

Maverick has integrated underlay so it can be installed directly on the subfloor. Maverick is a floating floor and should never be adhered to the subfloor.

### *Installation step by step*

#### Recommended tools.

- Tape Measure
  - Pencil
  - Chalk line/laser line to ensure the installation starts/remains straight
  - Set Square
  - Tapping block
  - Heavy-Duty Utility Knife
  - Nylon or rubber hammer
  - Spacers for maintaining the expansion gap along the wall and to ensure a straight installation
  - Optional: fine tooth jigsaw for intricate cutting and/or a hole-saw or step-drill for circular cuts
1. With Maverick panels you can choose where you want to begin. Think about what the easiest way will be to install the floorcovering. Here, we will explain the installation for right-handed people, installing from left to right. You can work in the other direction if preferred. Make sure the panels are mixed sufficiently when you install them, so that you do not end up with too many similar, light or dark panels next to each other. To obtain the best visual effect, it is best to fit the floorboards in the direction of the longest wall and parallel to the incidence of light.
  2. Before starting, carefully measure the length and the width of the room to plan a precise layout to achieve a balanced appearance of the floor. This is very important when installing typical tile decors. This will ensure that you won't end up with the last row being too narrow. If the last row would be less than 40mm, the installation will be easier if you cut down the panels of the first row in the length.
  3. Firstly, cut/saw off the tongue on both the long and the short sides.
  4. The Maverick panels are installed in the "angle-angle" method which means that you always connect the short-ends first, by lifting the panels to an angle of 20° to 30°. Align and lay the panels in straight rows. For the last piece of a row, measure the panel so that the required expansion gap is maintained. Do not lay the panel tight to the wall. Cut away the marked piece and fit the end panel in the same way as the previous panels. When cutting the panel with a utility knife, make sure that you cut through the wear-layer before snapping the panel. Large pieces can be snapped off by hand, with small cuts it might be necessary to use pliers (or alternatively a saw).

## Installation Methods.

### Method A (Recommended).

1. For the next row: install the first panel of a new row along the long-joint by lifting the panel at an angle of 20° to 30° and drop the panel into position. Position the end joint of the next panel to be installed at an angle of 20° to 30° to the end joint of the panel already installed. Carefully drop the panel down approximately 5mm short, along the long-joint, and then lift the panel to 25°, at the same time exert pressure. The panel will slide on the short-end and lock into place on the long-joint. Some panels may need to be tapped-in to close the gap: use a suitable tapping block. Please Note: Panels should be laid in a random fashion, the end-joints should be staggered at least 20cm.
2. Once enough rows are installed, it is easy to continue the installation as follows: switch your position (now you kneel on the installed rows) and connect the short side of the panel into the previous panel. Now place BOTH hands close to the joint, and pull the long-joint of the plank towards you.

### Method B (For difficult accessibility)

With Plusfloor Maverick you can also tap the long-edges of the panels into each other without lifting. For this method you must use the tapping block. The panels should not be joined with a single tap. To avoid damaging the panels you must tap them together gradually. Lay the panels in straight rows.

*NOTE: Plusfloor Maverick is meant to be a floating floor system and must not be restricted in any way, e.g. permanently fixing, fixtures and fittings through the floor covering, or very heavy objects which restrict movement.*

### The following is valid for both method A and method B

1. Ensure that the end joints of the panels in two successive rows are never in line. Always ensure that the joints are staggered by at least 20 cm and avoid a “staircase effect” by using your cut-off pieces randomly and not always for your next row. For the last piece, measure the last panel so that the required expansion gap is maintained. Do not lay the panel tight to the wall. Cut away the marked piece and fit the end panel in the same way as the previous panels. When cutting the panel with a utility knife, make sure that you cut through the wear layer before breaking the panel.
2. In places where it is too difficult to install the Maverick panels with the tapping block (e.g. against the wall), you can tap them together using the pull-bar and a hammer. To fit the last row of panels you will usually need to cut them in. Do this as follows: lay a panel on top of the previous row with the groove towards the wall, lay another panel upside down up to the edge of the wall and mark the panel underneath. Cut the panel to size and fit the last row. To fit the last row of panels you will usually need to cut them in. Do this as follows: lay a panel on top of the previous row with the groove towards the wall, lay another panel upside down up to the edge of the wall and mark the panel underneath. Cut the panel to size and fit the last row. Doorjambes and heating pipes also need to be individually fitted, maintaining a movement gap. First cut the panel to the right length, then place the panel next to the object and draw the correct fitting. Next, cut the panel to size. Doorjambes can also be sawn (undercut) to size if necessary, the Maverick can then be neatly installed underneath.

#### INSTALLATION AND WARRANTY

All PlusFloor floors should be installed by a skilled and competent installer who will consider the unique circumstances of each site. The PlusFloor warranty will be applicable only to floors that have been installed by a competent flooring installer conforming to the standards comparable to BS8201 in the UK or an equivalent standard worldwide.

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PlusFloor®

# Installation Guide

## Maverick





# PlusFloor®

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