

Forexia Deck Boards: installation and care

Attention!!! Forexia® 140x23 mm deck boards are designed for pedestrian outdoor use

They cannot be used as structural components. Their load bearing capacity (dynamic instant load) is 450 kg/m² equally spread on this surface.

**Read through the entire installation instructions before starting your application
Silvadeck SA disclaims responsibility for damage caused by, or failure of, the product as a result of faulty installation caused by failure to follow these instructions**

Failure to follow these instructions will void Silvadeck warranty.

Tools

Forexia® cuts, drills and installs similar to solid wood using standard wood working tools. We recommend carbide-tipped saw blades

Terrain Preparation

Deck must be installed with a slope, 15 mm away from the house-wall and in the same direction as the bearer length to allow water drainage.

Deck may be installed on flat ground with a slope on a concrete structure or on plastic pedestals. It can also be installed on a compact ground different than concrete. In this case, bearers must be supported by concrete support to avoid any ground sinking.

Bearer Installation

To allow for proper ventilation, boards cannot be installed directly on the ground, but on Forexia® bearers. Bearers in Forexia® (60 x 50 mm) are not structural components. They must lie on flat ground (i.e. concrete flooring).

They must not stay permanently into water and cannot be used directly on weather proofing. They cannot be cut in width or height but only in length. For installation on pedestals, Forexia® bearers are recommended for use.

Bearers must be installed with a standard spacing,

The spacing is:

Angle between board and bearer	90°	45°	30°
Maximal space between bearers (on centre to centre)	40 cm	20 cm	10 cm



Bearer in Forexia® :@space for fastening clips

Bearers in Forexia® (or solid wood) cannot be sealed in concrete.

Bearers in Forexia® cannot be fastened to ground or to each other, they also cannot be glued. When butting, a minimal 10 mm space in length between bearer ends and 15 mm space between bearer end and a wall must be left to allow proper water drainage and temperature expansion

If the floor is not completely flat, you can use solid liners (in PVC for instance) to take up the height difference. These liners must be spaced every 30 cm (maximal space).

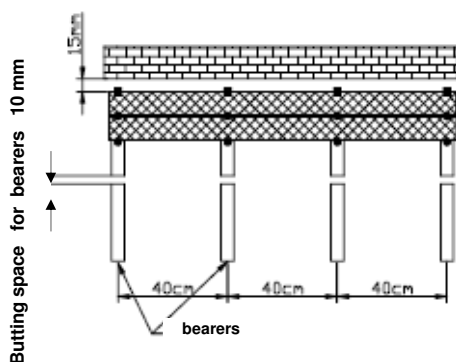
The end of each board must be supported by a bearer and be fastened to it in order to eliminate any stress, due to weight, on the board (no cantilever allowed). To avoid that, we propose a butting clip.

We advise you to have bearers a little bit longer than "boards' end" and cut them with saw blades when finish to avoid cantilever.

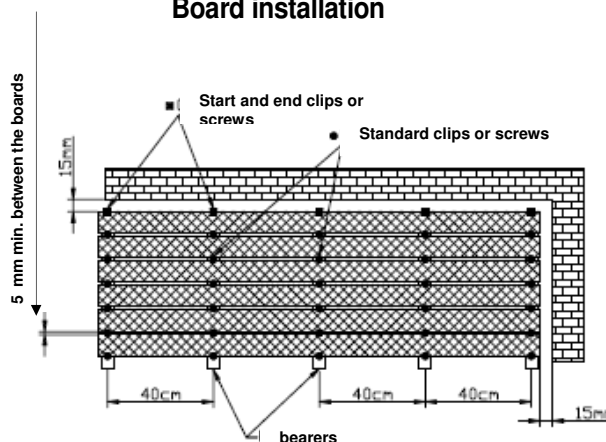
Spacing between boards

A 5 mm space in width is necessary, to allow contraction–expansion, also water drainage, or melted snow & ice run off. Also a 10 mm space in length between boards' end is necessary (for this we recommend the use of butting stainless steel clips). Do not butt boards over 4 meters long. Use liners provided with clips to check spacing in width and length. You also have to leave a 15 mm space between the end of the board or of the bearer (length or width) and a wall. Check with three 5mm thick liners provided with clips. Do not insert anything in the grooves of the board to joint them in length or width.

Bearer installation

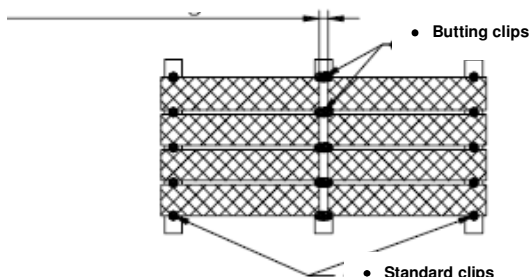


Board installation



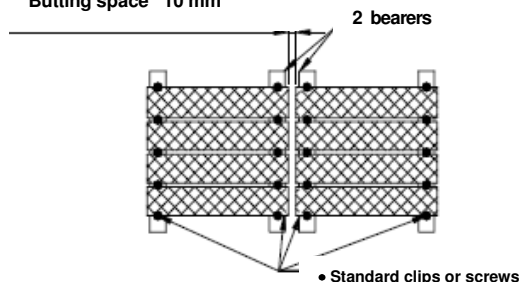
Board butting with butting clip

Butting space 10 mm



Board butting without butting clip

Butting space 10 mm



Examples of deck surface pattern

Instead of butting long boards, you can try different patterns like paving or by fixing one board perpendicular to the other. The result is visually attractive.

Perpendicular board in the middle and correspondent bearer's pattern



By using 5mm space between each board and 40 cm space between bearers, for 1 m² you need:
7 lineal meters of board 140 x 23

3 lineal meters of bearers (careful, you need more bearers if you don't use butting clip).

About 18 to 20 clips according to the surface pattern (One clip must be used at each crossing board/bearer)

Board installation and fastening

The visible surface of the board has been brushed to increase slip resistance. The unbrushed surface must not be used as visible top surface

We propose 3 types of fastening systems with 3 different visual effects, ease of use and installation speed.

- ☞ Gluing is not recommended
- ☞ Do not over tighten the screws.

If you don't use the fastening systems

- ☞ You must use liners to check 5 mm spacing in width and 10 mm spacing in length between boards.
- ☞ We recommend the use of stainless steel screws
- ☞ Do not screw at more than 3 centimeters from the end of each board.

1 - Stainless steel (invisible fixing)

Standard clip



The first board is fixed, you slide the clip into the groove



Once the clip is positioned, you screw it onto the bearer (screw torque on 7)

Butting clip



The installation of this clip is similar to the standard one



The butting clip is use to fasten 4 boards ends and adjust spacing in length and width. Control the space with a liner

Start and end clip



First and last board can be fastened with the relevant clip or be screwed

These 3 types of clips will help you for quick and easy deck building .These invisible fixings are supplied with screws.

2 -Stainless steel plate (invisible fixing)

The spacing is 5 mm.



3 -Screw

Choose your board space between 5 to 8 mm. You have to pre drill with a bigger thread than the screw one and countersink to sink the screw exactly at the surface of the board.



Deck finishing

Before any finishing, when all the boards have been fixed, snap a chalk line across the overhanging boards and using a circular saw, trim any excess boards, the length tolerance of the board is +/- 1 cm. The 2 finishing profiles (skirt and cap) must be screwed to boards or bearers with at least 50 mm long stainless steel screws. A space of at least 5 mm in the length between profile ends must be kept. Do not nail. Pre drilling is required. A screw must be used every 40 cm. Skirt can follow round shape provided the diameter is at least one meter or more.

Skirt : length of the board



Screw the skirt onto the bearer.
Leave 5 mm space between the skirt and the board end.

Skirt : width of the board



Screw the skirt onto the board.

Cap



Whatever the direction, screw the cap onto the board.

Technical details

- ⇒ For decks on weather proofing, plan one or two traps to inspect and clean the weather proofing.
- ⇒ When making paving (traps) use a structural material (steel or solid wood). Do not use bearers or boards in Forexia®.
- ⇒ Do not fix parts such as posts, directly onto the board.
- ⇒ Don't forget spacing around parts inserted in the deck board such as post, lighting,
- ⇒ For swimming pool shed, shed post cannot sit on the non structural boards. Shed wheels must be on rails for not pinching the boards.

Maintenance

Boards require **some care**. We recommend you to wash your deck once a year (in spring) with water

- Use a sharp blade to clean the space between each board to keep a good drainage.
- For standard washing, use soft detergent and water.
- If mold or mildew appears on your deck, clean with a product containing gavel water.
- For oil and grease stain, wash immediately with a degreasing agent. If necessary use a medium grain sand paper and sand slightly in the direction of the grain... Usually most grease stains will disappear after weeks of UV exposure.
- Do not use solvent base materials.
- For scratches, slightly brush the surface, it will eliminate them.

The color of Forexia® boards can slightly change during the first months. If you order more after a while, you will notice a slight difference. This will disappear after few months.

Storage and handling

Forexia® boards should be stored on a flat, ventilated surface and correctly supported. The non brushed surface must be visible to avoid any color fading of the used surface. Caution in handling must be taken as Forexia® boards are heavier than most similar wooden deck boards.

Don't do this!



Do not seal bearers in concrete



Leave 10 mm space between ends when butting the bearers



Do not glue the product



No inserts in board grooves



Leave 5 mm space between boards in width and 15 mm between the board end and the wall.

Failure to follow these instructions will void Silvadec warranty.

The colors and surface brushing of samples we provide may differ slightly from production deliveries. The samples colors and surface brushing are not contactual.

Silvadec 25 years warranty is valid for all products in the range against fungus, rot and insects in normal conditions.

This warranty means we will replace damaged products. Works and related costs are excluded from the warranty.