



TIMBY DECK 3D DELUXE INSTALLATION GUIDE

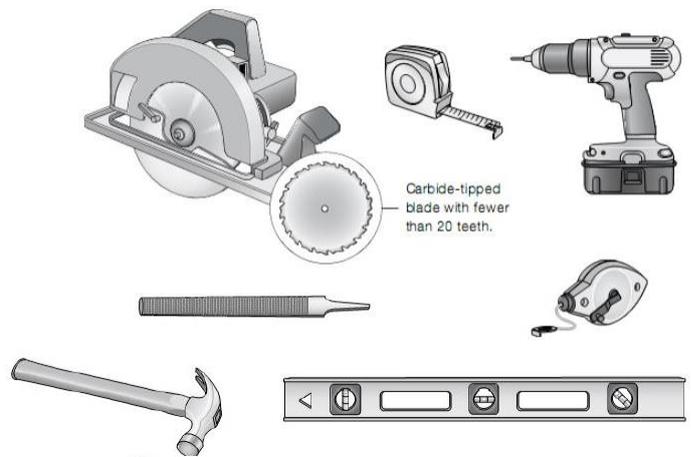
Please keep this guide within reach and make sure to read it all before starting the Deck installation; if you have doubts or need further information please contact us. Following this guide and the correct maintenance carefully will guarantee a long life to your deck.

Safety

We recommend to wear a suitable clothing and use individual protective equipments to avoid any risk of accident. For example: safety glasses, gloves, dust mask during cutting operations.

Tools

Keep within reach: hammer, electric driller, circular saw with carbide-tipped blade for the cutting of wood, meter, level.



Delivery and storage

You are invited to check the delivered or collected goods carefully, to document by pictures and to report defects and damages to the seller before starting the installation.

We recommend to store the decking boards in their original packaging and keep them on a flat and dry surface, preferably in a covered and well-ventilated room, until installation. Boards and accessories must absolutely not be stored in direct contact with humid and/or wet surfaces.

Main components:

Material	Deck	Clips	Screws	Support joist	Expansion screw	Starting clips	Sider cover
Pictures							DELUXE facial board
							Aluminium
							You can choose without covering

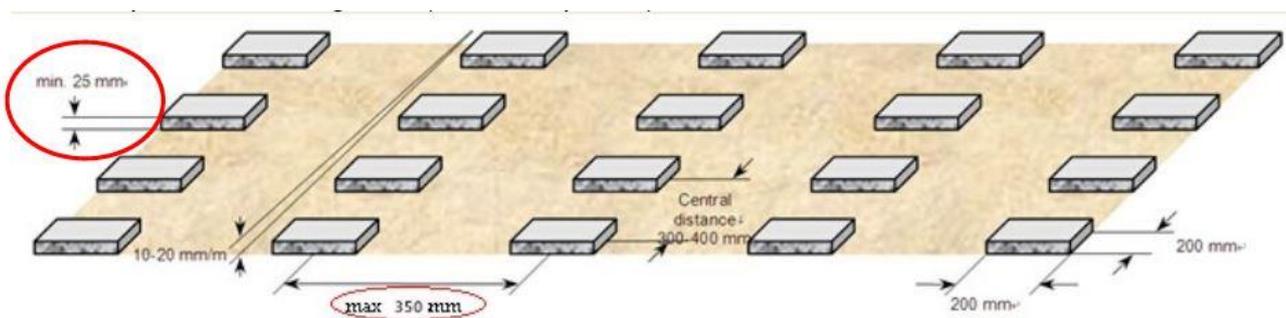
Important tips:

1. Make sure that local rules or laws do not forbid or impose restrictions for deck installation; indications on this document have only an explanatory aim.
2. You are invited to trust only professional layers/installers; it is always recommended that two people work together when Deck is installed.
3. Installation method is fundamental for the correct upkeep of your deck; an incorrect installation can cause damages to the product and reduce its duration during the years. The non-compliance of all the rules contained in this installation guide invalidates warranty on the product.
4. Deck is a product for external pedestrian use, it is not carriageable and cannot be used for structural elements such as beams, joists, pillars and so on.
5. Before the installation we recommend to let deck boards acclimatize, in order to let the product adapt naturally to the environmental conditions in the laying room. Do not install deck with temperature below 0 degrees.
6. It is possible to verify light surface and color differences because of the treatment of the raw materials; these small differences give a natural look to the Deck boards.
7. Because of the coupling of different materials, the “core” and the “capsule” of the Deck can expand and shrink in a different way, causing a slight warping of the product; if you follow all indications in this installation guide carefully you’ll avoid this kind of problem.
8. The use of metal clips may lead to a slight creaking of the deck; it is possible to lay an IXPE sheet between the substructure joist and the clip in order to soften all noises.

The substructure

Generally, there are two foundations allowed for installation:

- A. Complete flat or slightly sloped concrete ground (or similar material);
- B. Concrete tiles laid on the ground (see picture below)



You need to have a minimum space of **at least 20/25mm** between the foundation and the Deck boards, a space that is assured by the use of a substructure made of a listels framework.

It is necessary to fix support joists to the foundation through screw anchors at a **max. 350mm distance** (see the picture above). If the terrace is very big you can lay support joists floating on the base instead, in order to allow movement without fixing.

Installation

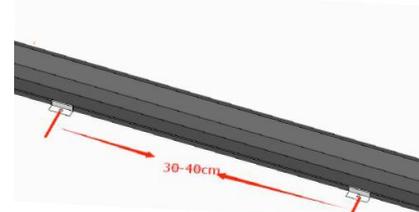
1. Foundation: before starting deck installation you need to prepare a suitable foundation and **be sure that the laying surface is flat, solid and stable and with a 2% slope** allowing the correct water drainage. If possible it is recommended to arrange a concrete or cement foundation; in case of irregular or unstable grounds, such as sand or soil, you need to evaluate the use of a double-framed substructure or a frame suitably built in order to support the deck. In case of laying on the grass it is advisable to cut or remove the grass in advance and put a textile layer (or a layer similar to a textile) to avoid a new growth.

Anyway the foundation must always be prepared in a way to allow a suitable ventilation of the deck, since the material must not be absolutely kept in a condition of persistent humidity.

2. Laying of the substructure (listels or joists): It is absolutely forbidden to lay directly adherent to the foundation. According to the use of the Deck and to the loads you expect it has to bear it is necessary to provide different center to center distances between the substructure joists.

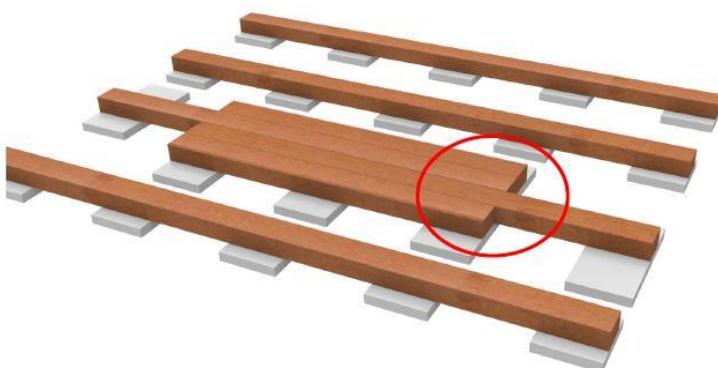
<p>CENTER TO CENTER DISTANCE for a slight use / Residential:</p> <p>lay the substructure joists at a maximum center to center distance of 350mm.</p>	<p>CENTER TO CENTER DISTANCE for intensive use / Commercial:</p> <p>lay the substructure joists at a maximum center to center distance of 250mm.</p>
<p>In both cases you need a minimum space of 20mm between the foundation and the boards of Deck: for this reason the substructure joist must have a minimum thickness of 20mm.</p>	

It is necessary to fix substructure joists to foundation through screw anchors or expansion screws every 30/40cm to avoid that the bending force of the deck, caused by temperature and humidity variations, could lift them from the foundation.



Make sure that the substructure joists have a 30 mm distance from the walls and from other obstacles, to allow products expansion and a correct water drainage.

Make sure to have two joists (double joists on both heads of the deck). Never let two heads of the deck to lean on the same joist, otherwise the deck board can shrink and fall from the joist or have other problems (see the picture below).



2.A If the terrace is very big lay the joist on the concrete stand.

OR

2.B Fix by expansion screws (as below). Usually 2-3 expansion screws are necessary for 1 mt. of joist, which means an anchor every 30-40 cm.

After all joists are fixed to the ground, please check the horizontal joists.

Attention: it is required that the deck surface is mounted flat and no water can be collected on the surface or in the chambers. If water collects in the chambers for a long period, the board may start bending and waving because of the expansion caused by moisture.

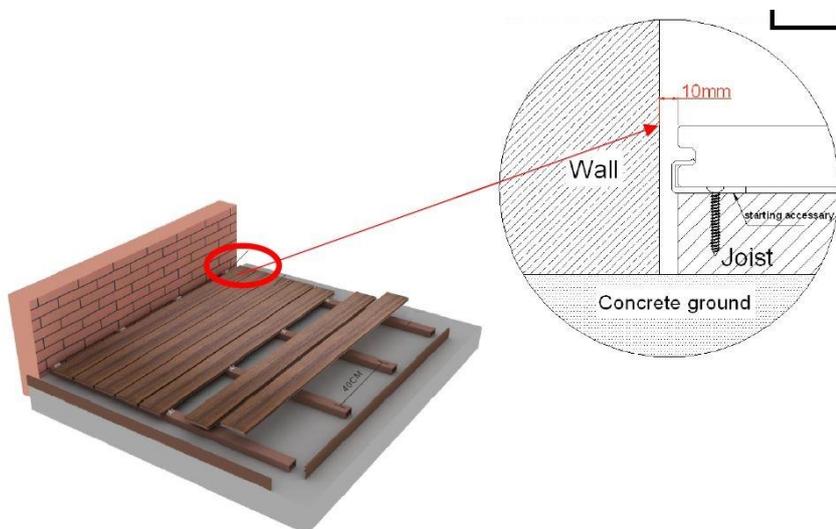
To prevent the deck from bending, especially for long decks used in commercial sites, it is also recommended to lay double joists to both starting and ending ends of the terrace section, so that the deck can be fixed firmly.



3. Deck installation

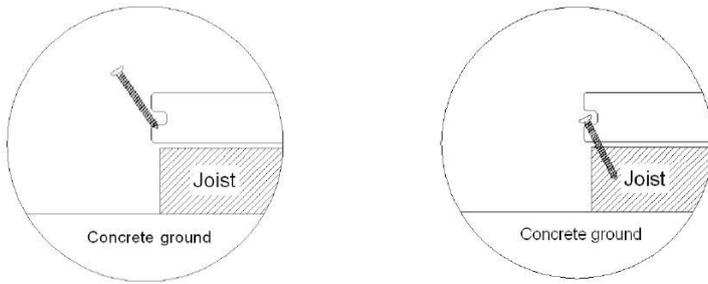
3A. With starting clips

Drill the hole on the joist and then fix the starting clips into the joist. Keep the board end and the joist at least 20 mm from the walls or from other obstacles to allow expansion and ensure correct drainage and ventilation.



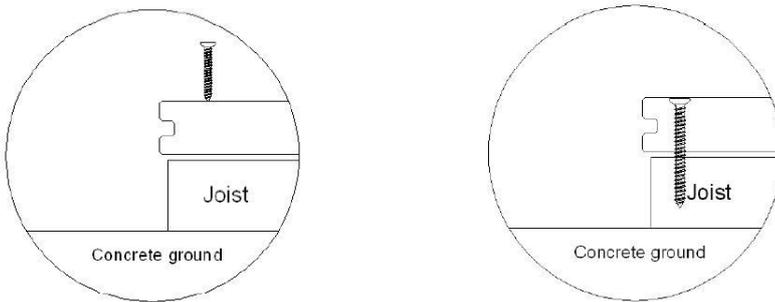
3B. Without starting clips, but with screw on the side.

1. On the deck side, drill a hole for the screw through the groove and into the joist;
2. Fix the screw into the hole (see pictures below).

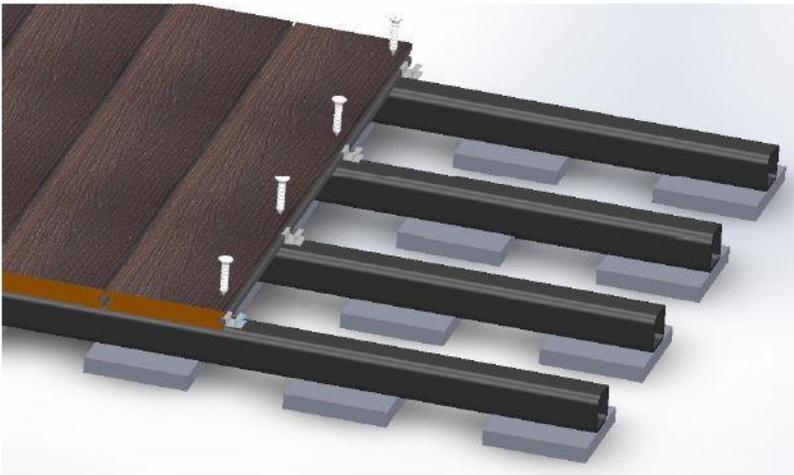


3C. Without starting clips, but screw from the top.

1. On the top of the deck, drill a hole for the screw and into the joist;
2. Fix the screw into the hole (see pictures below)

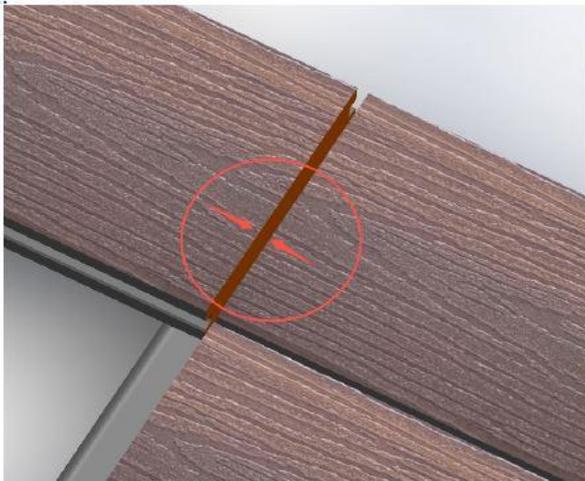


After the first board of deck is fixed, the remaining boards must be fixed by screws and clips.



Attention: the expansion rate of the products DELUXE is around 0.3 %, according to the deck length and the different weather conditions. On the basis of this percentage, it is always necessary to have a 6.60 mm distance between two decks with a 2.20 mt. length and a 7,2 mm distance between two decks with a 2.40 mt. length.

Attention: be sure that the boards DO NOT EXTEND BEYOND 50 mm from the coupling point above the supporting joists. If the material is not fixed by a clip to the joist it tends to warp.



3D LAYING OF ALIGNED DECK BOARDS



The laying of the aligned DECK boards (therefore NOT QUARTERDECK LAYING) is FORBIDDEN for SOLID TIMBY DECK DELUXE.

4.Finishing

4A. Without covering

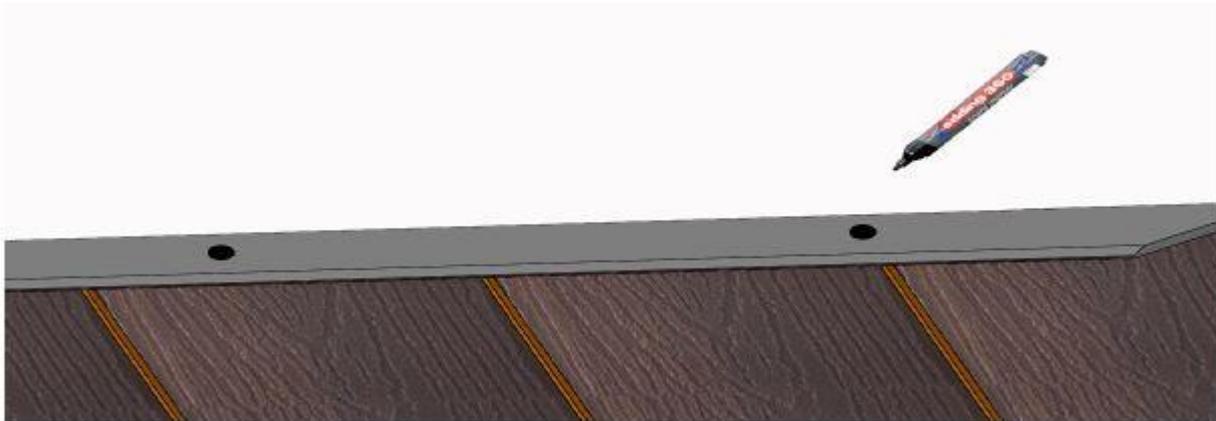
Sometimes the laying site is not suitable for a covering, in this case the edge can be left without covering.



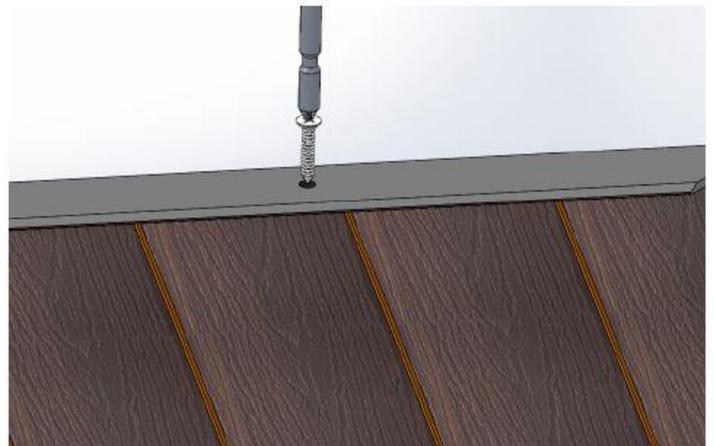
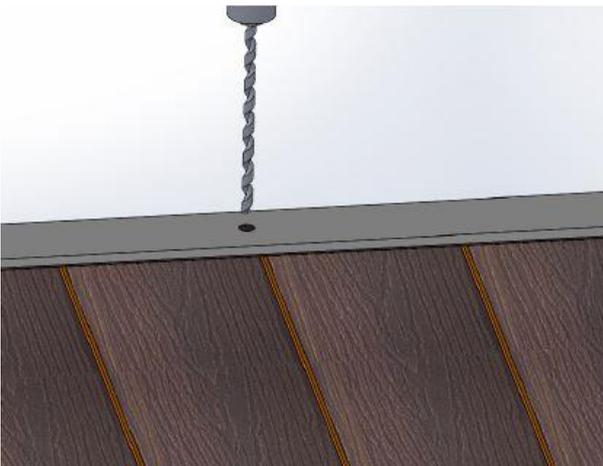
4B. With an L-shaped alluminium finishing profile.



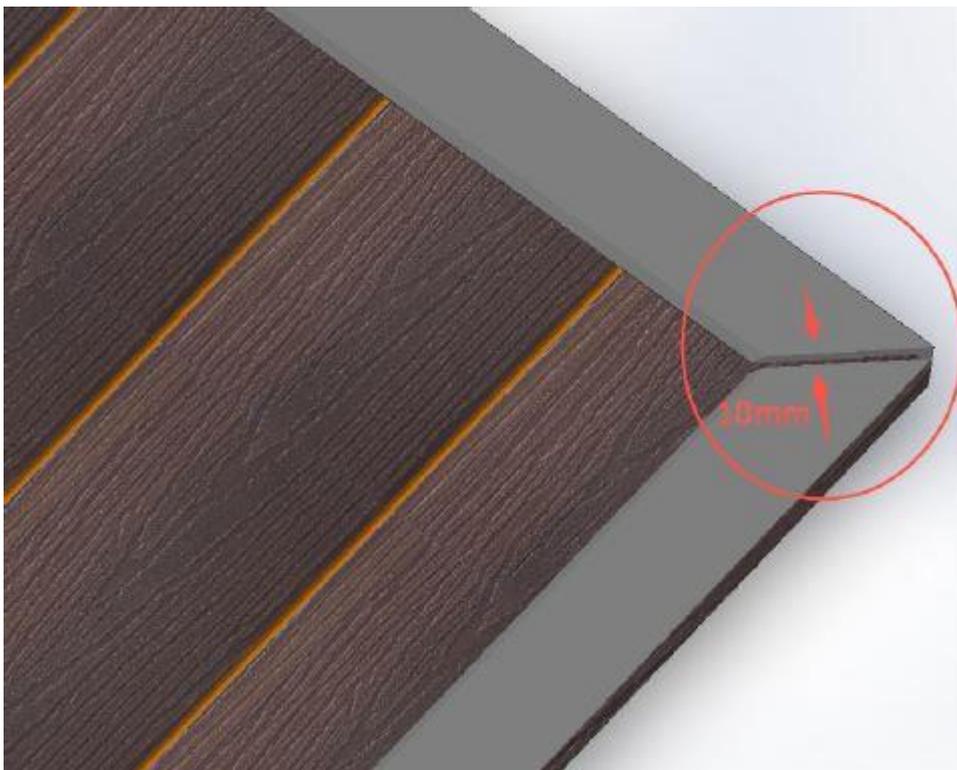
For a finishing aesthetically better it is possible to use an L-shaped profile, on the market, to lay on the deck, marking points on which holes must be made.



Then you can drill holes and fix.



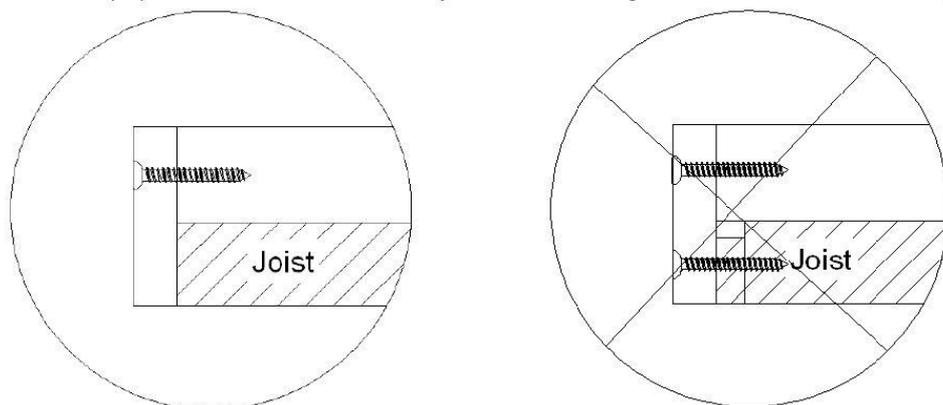
To make the L shaped profiles meet well at the corner, the aluminium profile will be made with crosscut shape as shown by the picture on the right. Make sure that at least 10mm are left between the crosscut ends for expansion.



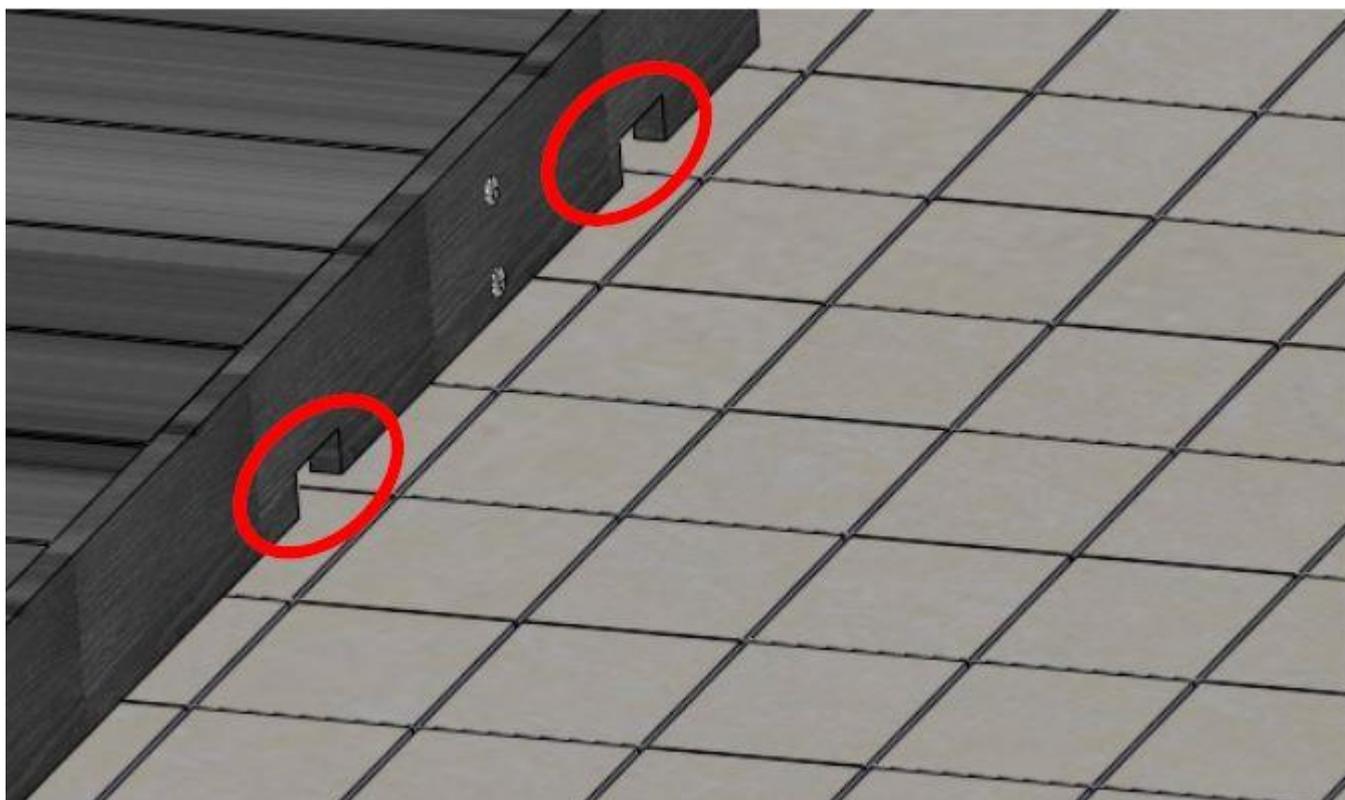
4C. with I shaped profile

You can also finish the ends of the terrace with a **I shaped profile**.

Make sure it is fixed on the deck in a way that it can move with the expansion of the deck.



We advise to drill holes on the underside of the terrace for ventilation and drainage. If these holes are not made, water or moisture cannot drain away and warranty for water damage is invalidated.



Maintenance

For this you need:



- 1.A cloth 2.A small basin 3. Water 4.Steel wool/Soft brush/Broom 5.Detergent 6.Rubber gloves

Problems

Recommended solutions

Dirt and debris

Clean the deck and remove dirt and debris. Soap and hot water is all you need, or a pressure washer.

Oil/Grease/Food

Remove as soon as possible these stains (make sure to do it within 7 days) with hot water, soap and sponge.

Minor scuffs and scratches

The appearance of minor surface scuffs or scratches should diminish after a few months (9-10 weeks) of exposure to the different weather conditions. For larger scratches or scuffs, a heat gun (available in most building products and hardware stores) may be used to carefully heat and blend the blemished portion with the adjacent deck surface area. Attention: the tip of the heat gun should never be placed closer than 50 mm from the deck surface and must be in continuous motion, so not to damage the surface of the deck board. Do not lay the heat gun on the deck after use.

Ice & snow

Some rock salt can be put to melt ice and snow before remove them, **NEVER** use a metal shovel on the deck, because it may scratch the deck, and this is not covered by the warranty.