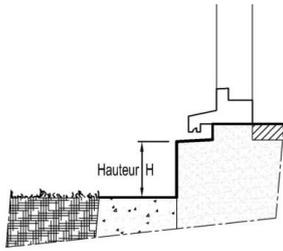


Installing on concrete ground

Attention : do not use wood plastic composite joists !
Joists should have a minimum of 28mm thickness to allow a better ventilation.



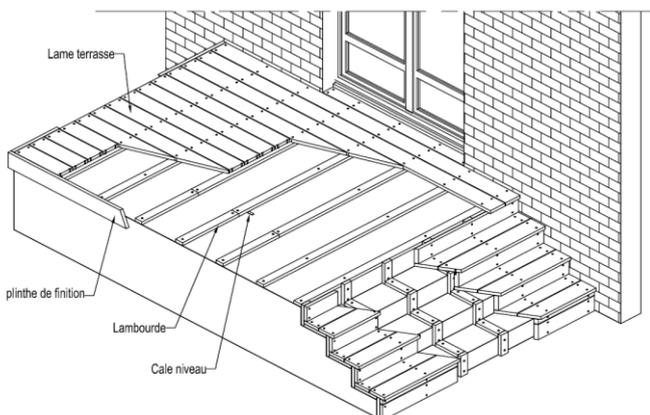
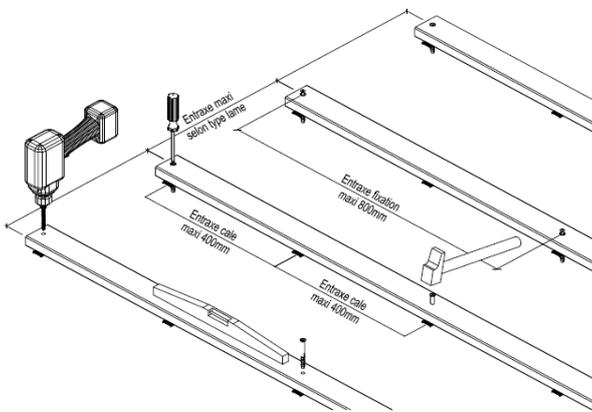
The minimum height H (between the ground level, and the top level of the deck) should be more than 6cm.

Joists should be fixed to the ground with nylon anchors screws. Screws dimensions can vary depending on the joist thickness. In general, the screw length should be 2.5 times the joist thickness.

Nylon anchors screws spacing should be 80cm maximum. Plastic pads should be put under the joists and spaced each 40cm. This will allow water circulation and insure good ventilation under the joists.

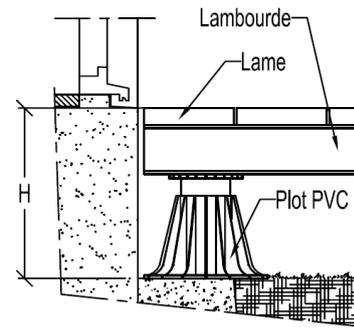
We recommend the use of **Bitudeck® cover tape** on the joists. It reduces walking sound effect and protects the joists from water (rain).

Unobstructed air flow is required below deck. **Promote proper drainage and ventilation.** Insufficient ventilation will void the warranty.



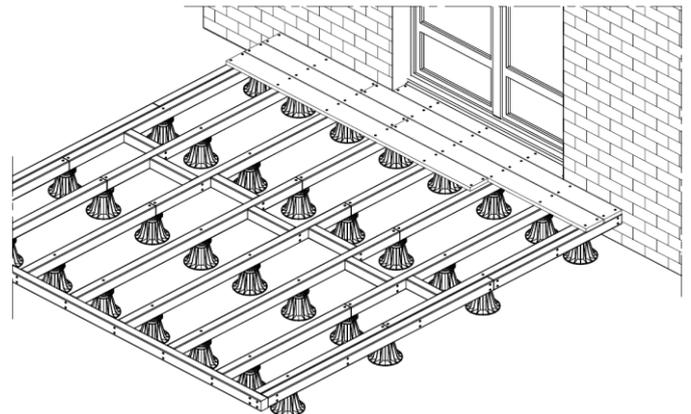
Installing on wooden joists + pedestals

In case your deck will lay over a non-concrete ground (gravels, sand...), we recommend the use of adjusted pedestals.



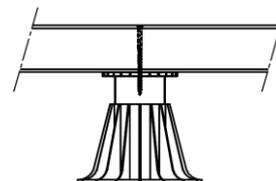
Pedestals should be uniformly positioned under the joists. Spacing will vary depending on the joist thickness. For residential use, spacing should be as follow:

Joists of 30 – 40 mm thickness = 1 pedestal every 40cm
Joists of 40 – 50 mm thickness = 1 pedestal every 50cm
Joists of 50 – 60 mm thickness = 1 pedestal every 60cm
Joists of 60 – 70 mm thickness = 1 pedestal every 75cm
Joists of 70 – 80 mm thickness = 1 pedestal every 90cm



If the ground is not flat, we recommend making a weak mortar to have a stable structure. Before installing the pedestals, spread a **weed control film** of 100gr/m² minimum, to prevent growing weeds.

Use long screws to fix the joists on the pedestals.



If joists are more than 3m length, we recommend fixing wooden spacers in between to avoid twisting. Therefore, joists are perfectly parallel to each others.

Fiberon® boards installation with COBRA® hidden fasteners

Easy and quick to install, COBRA® fastener is a hidden deck fastener designed specifically for **fiberon®** decking boards. COBRA® fasteners allow an exceptional hold-down power thanks to the claws located on the tabs. The result is a stable and smooth deck surface.

1. Position the first deck board and leave a 6mm gap from any permanent structure.
2. Pre-drill the first deck board with a 3mm drill. Use Cobra® composite decking screws along the outside edge. The screw placement should be at 25mm from the edge of the board. Do not over-tighten the screws.
3. Insert COBRA® fasteners into the groove channel of the 1st board at every support joist (**Figure 1**).
4. Position the 2nd board against the fasteners. Slightly lift the outer edge of the 2nd board to ease the assembly (**Figure 1 bis**). COBRA® fasteners allow a 5-6mm board spacing.
5. Once 1st and 2nd boards are positioned, tighten the COBRA® screws down. A special bit is provided. Do not over tighten the screws (**Figure 2**). Use a plastic hammer to tighten the 2nd board to the 1st one (**Figure 3**). Repeat the same steps for next boards.
6. Adjust the last board width with a circular saw, and fix it with Cobra® composite decking screws along the outside edge
7. To obtain a fascia, you can cut a board in the length direction and place it alongside your deck.

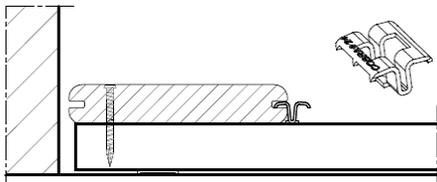


Figure 1

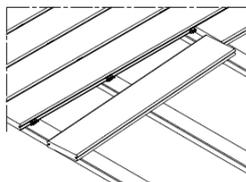


Figure 1 bis

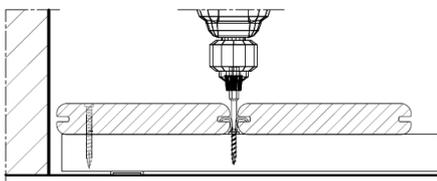


Figure 2

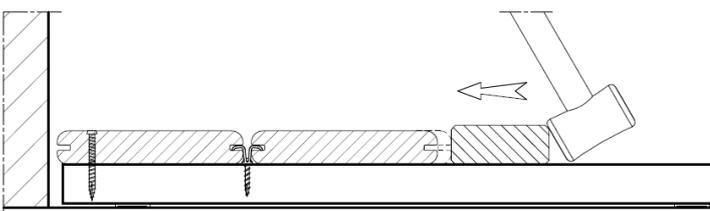
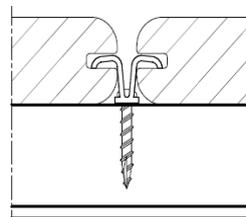


Figure 3

TIGHTENING TORQUE: You should carefully tighten the hidden fastener screw down. High tightening torque may break the screw head.

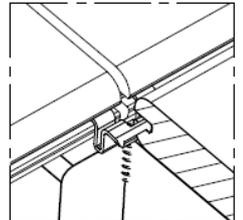
FOR TROPICAL HARDWOOD JOISTS: You should absolutely pre-drill before fixing the hidden fastener screw into the joist. For treated pine joists, you can screw directly (without pre-drilling).



Defected / damaged boards replacement

COBRA® hidden fasteners could fix two boards end-to-end.

This allows an easy board replacement without altering the rest of the deck.



fiberon® boards are 100% reversible. Both top and bottom faces are similar. It is possible to turn over the board and use the non-damaged face.

1. Unscrew COBRA® fasteners that hold the board to be turned over / replaced (including fasteners that holds boards A and B) and slide them inside the groove channel of boards A and B (**Figure 1'**)
2. Position the clean face (or new board) and slide the COBRA® fasteners back in the groove channel of the replaced board (using a screw driver) (**Figure 2'**). Tighten the screws down (a special bit is provided)

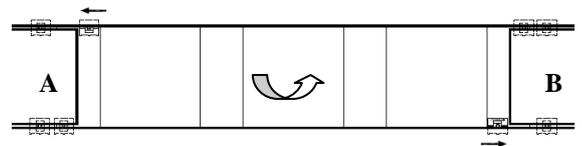


Figure 1'

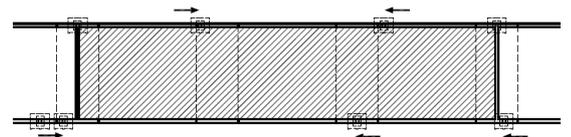
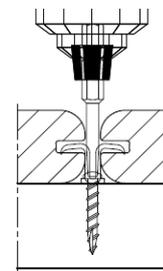


Figure 2'



A special bit is provided to allow fastening COBRA® screws between the boards

fiberon® boards installation with COBRA® composite screws

We strongly recommend the use of COBRA® composite screws. They have a special coating against corrosion, and are engineered specifically to match with all kind of composite decking. Galvanized screws are prohibited.

Pre-drill all screws holes at 25mm from board ends with a 3mm countersink drill bit. Even though it is not necessary, pre-drilling is recommended to have better looking finished projects.

Drive fastener perpendicular to deck surface (not at an angle) until top of screw head flush with deck surface (**Figure e**).

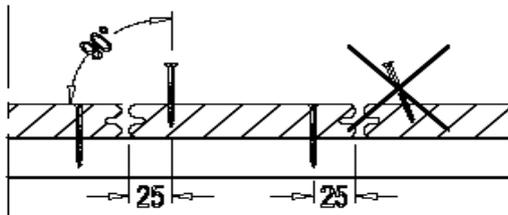


Figure e

When screwing, some mushrooming (residues) may appear around the screw head. For a clean finishing, we recommend the use of COBRA® composite screws. This will reduce the mushrooming effect. Different colors are available to match with most popular WPC decking colors. (**Figure f**)



Figure f

Each board requires 2 screws at each end, but only 1 screw per joist (**Figure g**). Designed for the professional deck builder, this installation efficiency results in a 40% reduction in screws and a 30% reduction in labor.

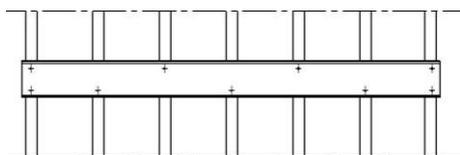


Figure g

Wood grain patterns

graining on **fiberon® Professional** is directional. Different looks can be achieved by laying the decking in the same or alternating directions (**Figure h**).

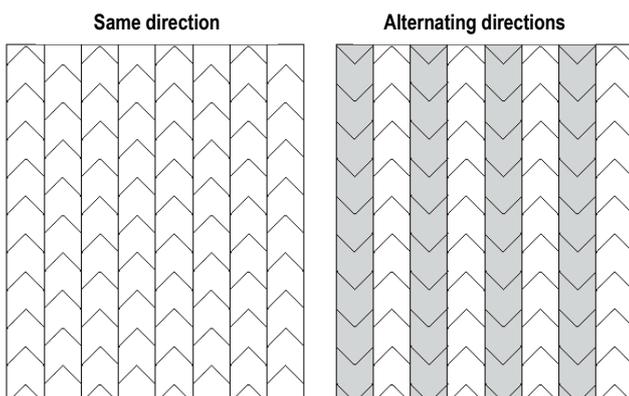


Figure h

The graining pattern repeats approximately every 90cm along the board length. To ensure you orient the boards to achieve the desired effect, a directional arrow is inked on the side of each board showing the direction of the graining.

During the planning phase of any deck project, choose the desired effect to have a homogenous look and be sure that boards are correctly oriented.

Fascia / trims / deck finishing

Equalize edge decking boards with a circular saw, and fasten a fascia board with COBRA® composite screws every 40cm (on each joist end). Do not forget to leave a 3mm gap between end-to-end fascia, to allow natural thermal expansion (**Figure i**).

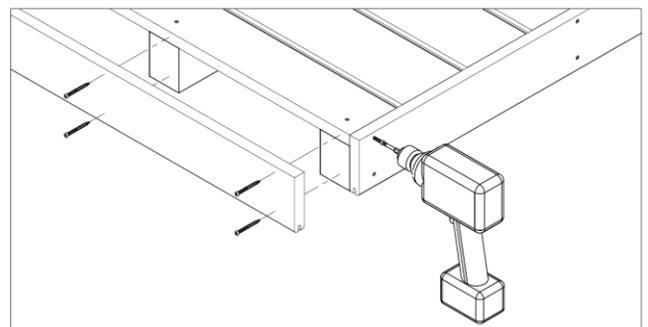
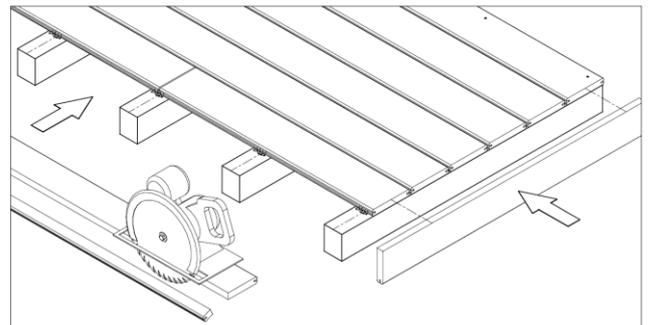


Figure i

Important notes

- **fiberon®** boards cannot be glued.
- Do not fix parts such as posts, pools covers.. directly on deck boards.
- Leave a gap for thermal expansion around parts inserted in the deck board such as posts, lights etc.
- For swimming pool shed, shed post cannot sit on non structural boards. Shed wheels should be on rails to not damage deck boards
- For swimming pools, we do not recommend the use of **fiberon®** boards as trims directly in contact with water. Better use a stone trim.
- Color can differ slightly from one lot to another, due to a different wood sawdust supplies. Colors are not contractual.