

These installation instructions apply to the COMPOSITE PREMIUM wood composite boards for decking. These decking boards are designed for pedestrian use only. They are non structural elements designed for outside use only. These boards should not be installed indoor. Only coextruded boards suit for covered or semi-sheltered zones. Our bearers and finishing accessories (fascia, fastening systems) are designed for our decking boards only. We don't recommend their use with other wood composite or solid wood boards.

● BEFORE INSTALLALING A COMPOSITE PREMIUM TERRACE

You need tooling similar to wood.

For 1m² of boards, please plan the following elements :

Deck board width	Number of deck board linear meter for 1m ²	Number of clips for 1m ²	Number of bearer linear meter for 1m ²
150 mm	6,5	24	4
180 mm	5,5	20	4
210 mm	4,7	16	4

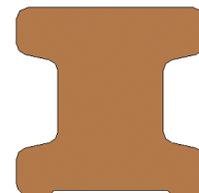
● BEARERS INSTALLATION

For proper water drainage and air flow, boards must be installed on bearers which are at least minimum 5 cm high and width, in wood composite Premium Deck or in solid wood (class 4 pressure treated pin or exotic hardwood).

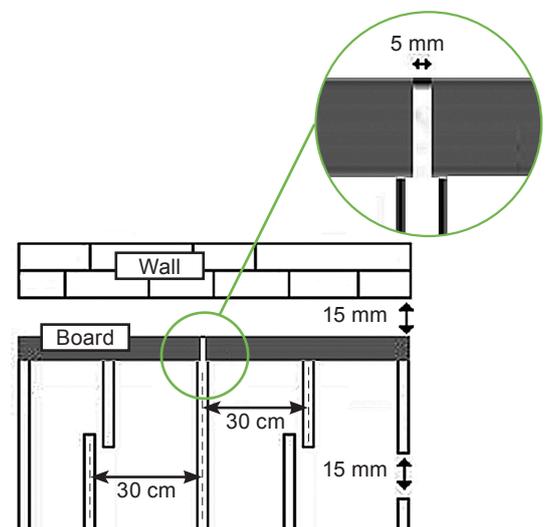
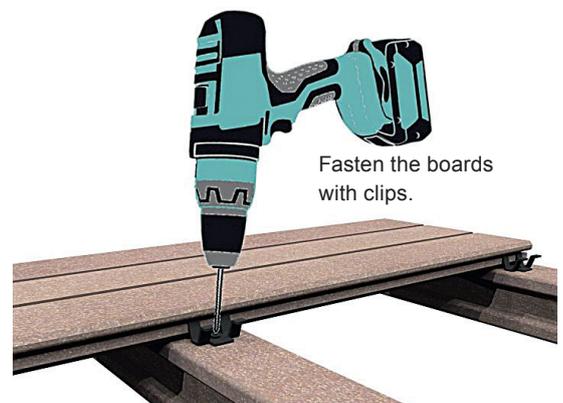
ATTENTION: fastening clips must be fixed on the smooth face of the wpc bearers. For installation on solid wood, trim the bearer first to make a groove of 30mm width and 1,5mm deep. The fastening clip must be fixed in this groove to ensure a good fastening. Install the boards perpendicular to the bearers with a maximum spacing of the bearers of 30 cm from centre to centre. The bearers must lay flat on their entire surface, on a solid ground. They must not stay permanently into water and they cannot be used directly on weather proofing. Bearers must be installed on a slope away from the house (10 mm every meter) to allow water to run off.

Bearers in Premium Deck are not structural components. They must lay on flat solid ground on their entire surface. For installation on pedestals, bearers in solid wood must be used. Bearers dimension in Premium Deck is 50 x 50mm: they cannot be cut in length or height but only in width. They cannot be sealed in concrete, nor glued nor fastened to each other. They cannot be fastened to the ground.

When butting, a minimal 15 mm gap in length between bearers end or between bearer end and a wall, must be left to allow proper water drainage and temperature expansion (see drawing). Use the liners provided with the fastening systems to respect the gaps. 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 in the bearer length (maximal space). As bearer is not a structural part, this 30 mm space is the very maximum. Do not use bearers as liners to take up the height difference.



GROUND



● PREMIUM DECK BOARDS INSTALLATION

When you install the boards, do not over tighten the clips and leave a **minimal 6mm gap in width between the boards**. **When butting the boards in length, use the butting clip with the provided liners to respect the 5 mm gap between board ends** (see drawing). As for bearers, leave a **15 mm space between board and a wall**. Each board extremity must lay on a bearer and be attached to it (no cantilever is allowed). You need a fastener for each board/bearer intersection (Premium-deck fastening system or 2 screws after pre drilling). Our boards are designed for pedestrian use outdoor. They cannot be used as structural components. Their load bearing capacity (dynamic instant load) is 250 kg / m² equally spread on this surface.

● INSTALLATION OF PREMIUM BOARDS WITH COMPOSITE PREMIUM SPECIAL SCREWS

Type of screws to be used

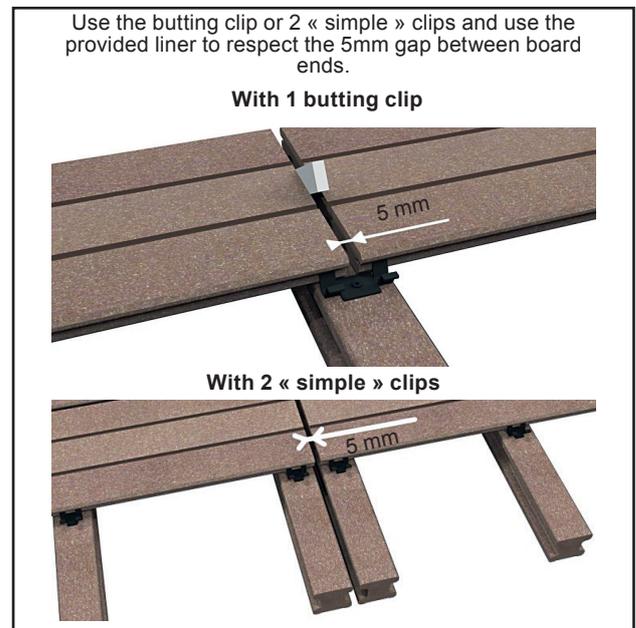
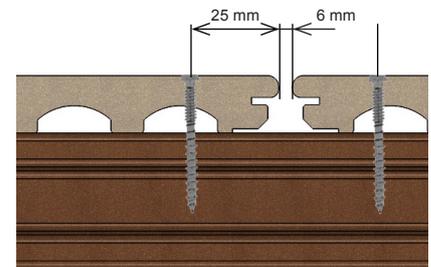
- special wood composite COMPOSITE PREMIUM screws with MANDATORY pre-drilling using a $\varnothing 3.5$ mm maximum drill - the screw is sold separately from the boards.
- special wood screws $\varnothing 5 \times 50$ mm vis VBA 5*50 mm with MANDATORY pre-drilling using a $\varnothing 3.5$ mm maximum drill

Screwing the boards on the bearers

It is forbidden to screw less than 25 mm away from the edge of the board (even with pre-drilling). no wonder what screw is used, it is mandatory to pre-drill both board and bearer with a $\varnothing 3.5$ mm maximum drill

WARNING: The length and width expansion gaps MUST be respected (see the paragraph entitled «PREMIUM DECK BOARDS INSTALLATION» above). The principle is to screw 2 screws at each intersection between a blade and a bearer.

Tip: For a clean finish, make a slight chamfer at 45 ° for the location of the screw head.



● BOARDS AND BEARER DIRECTION :

In case of thin pedestrian use (footpath, footbridge, ...), it is important to note that the boards must be installed in the direction normal to the direction of travel, especially in public places. Moreover, the support on which bearers rest must be designed with a slope allowing the evacuation of the water.

Angle between the board and the bearer	90°	45°	30°
Maximal spacing from centre to centre	30 cm	20 cm	10 cm

● FINISHING

When all the boards have been fixed, snap a chalk line across the overhanging boards using a circular saw, trim any excess boards. To fasten the fascia (see drawing n°1), pre drill first and screw every 30 cm (50 mm stainless steel screw, do not use any nail). Carefully screw at least 25 mm away from the fascia's edges (see drawing n°2). Leave a 5 mm gap between the fascia and the board's end (see drawing n°3). Leave a 5 mm gap between fascia's ends in the length (see drawing n°2).



Schéma n°1

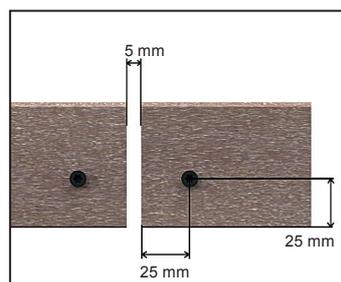


Schéma n°2

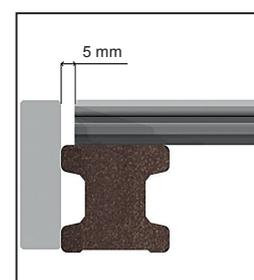


Schéma n°3

● STORAGE

Flat storage is mandatory. Boards should be stored on a flat and ventilated surface and correctly supported. The non brushed surface must be visible to avoid any color fading of the used surface.

● TECHNICAL DETAILS :

- Glue is not recommended for fastening the material.
- We recommend the use of stainless steel screws.
- Do not screw with a high torque on your screwier.
- Do not screw if your less than 3cm from the product end.
- Do not use deck boards as fixing supports for covers of swimming pool, lamppost, fence post, or else.
- Do not forget spacing around parts inserted in the deck board such as posts and lights.
- For swimming pool shed, shed posts cannot sit on the non structural boards. Shed wheels must be on rails for not pinching the boards.
- The colors of the products can change slightly during the first months. If you order more after a while, you will notice a slight difference. This difference will disappear after a few months. Nevertheless, differences can persist due to different wood sawdust supplies. The colors and surface brushing are not contractual.
- When making paving (traps), use a structural material (steel or solid wood). Do not use wood composite bearers or boards. Leave a space (at least 1cm) between the trap and the boards.
- For swimming pool deck we recommend the use of stone rim rather than a wood composite one.
- The surface of the board has been brushed, do not use the non brushed surface as visible surface.
- Do not use Premium deck boards indoor or in area which are unexposed to UV or to bad weather. A good exposure to wind and rain is necessary for an easier cleaning.
- When receiving the boards, be sure to remove the stickers stuck onto the boards, to avoid any shade differences.
- Before installing the terrace, check all the boards to verify the color is the same on all boards.

● TECHNICAL SPECIFICATION TABLE FOR WOOD COMPOSITE PROFILES :

	150 mm deck boards	180 mm deck boards	210 mm deck boards	Bearers	Fascia boards
Length (+/- 1 cm)	2,4 m	3 m or 2,4 m	3 m or 2,4 m	2,4 m	2 m
Width (+/- 2 mm)	150 mm	180 mm	210 mm	50 mm	70 mm
Depth (+/- 2 mm)	21 mm	21 mm	21 mm	50 mm	20 mm
Weigh per linear meter (+/- 5 %)	2,9 kg	3,5 kg	4,2 kg	2,3 kg	1,7 kg

● MAINTENANCE

Refer to the Silvadec maintenance sheet that is available with our distributors or it can be downloaded from our website at <http://www.composite-premium.com>. It can also be sent to you on demand. This maintenance sheet must be delivered to the final user of our products.

● RECYCLING AND END OF LIFE

We deeply advise people against the use of wood composite as fuel for boilers. Actually, the combustion of composite wood leads to an important production of clinker. We strongly advise people against the use of composite wood in barbecues.

See your deck building code with your Local Authority prior to installation. Premium deck board wood composite is not a so called « traditional building product ». Please inform your insurance company. Failure to follow the above instructions will void COMPOSITE PREMIUM guarantee. The deck boards are guaranteed against termite damage and moulds: for 20 years for residential use and for 10 years for public or commercial use. This guarantee covers replacement of damaged products only. Installation and related costs are excluded from the guarantee.