



SAVEWOOD

SW Fagus Installation Guide



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1. General Information

When choosing type of decking, as well as when installing it, it is necessary to take into account natural and climatic conditions, such as humidity and temperature conditions in which the flooring will be used. It is necessary to take into account the carrying capacity of the soil, inclination level on the site, weight load on the flooring, especially of small areas (furniture, flowerpots, the probability of snow and ice melting on the flooring areas). If there are non-standard conditions during installation and operation of the flooring, the recommendation and installation requirements may differ from those indicated in this manual. If you have any questions, please contact a Savewood technical specialist or email us at service@savewood.ru.

Before starting work, it is necessary to know the exact dimensions of the future flooring, to determine the configuration and method of installation. It is necessary to have a decking layout scheme that will help save material during construction of the flooring and avoid overspending.

It is necessary to take into account, if under the flooring it is necessary to conduct communications (plumbing, lighting cables, inspection hatches). It is also necessary to take into account existing wiring and pipes in order to avoid their damage.

For processing WPC products you can use almost the same tool as for wood. When using a cutting tool (miter saw, jigsaw), you must use saw blades and saws that can provide a clean cut. It is recommended to use metal drills for drilling. If necessary, you can use milling and grinding machines.

The boards should be stored and transported in horizontal position on supports with a distance of no more than 1 m. Unloading should be carried out with care, avoiding impacts and slipping on materials that may scratch. Rubbing boards on each other should be avoided due to possible presence of WPC residue particles between the boards, which can cause scratches.

In order to avoid color change during storage, the board must be protected from weathering (rain, snow, direct sunlight).

Products from wood-polymer composite contain up to 50-70% wood fiber. Small color deviations and presence of impregnations of wood fibers emphasize the imitation of the wood structure and are not a defect. Under the influence of sunlight and environment, decks may undergo a slight color change. This occurs within a few weeks after installation, and is not a defect, due to the natural change in the color of the wood that is part of the products. Random spots of whitish color are not a defect. Within 6-12 months, the color of the deck stabilizes and equalizes.

The error in measuring the width of the profile of decking in the range of ± 2 mm is permissible and does not constitute a violation of quality.

Small chipping and wear at the ends of the profiles are not a defect in the product. Before laying the product must be cut from both sides. Savewood provides additional margin of up to 2 cm on each profile for cutting.

It should be considered that each cut reduces the length of the board by 3 mm.

It is recommended to keep the liner with the number and date of product packaging until the installation of the flooring is completed to simplify contacting us at the service center or upon warranty matters if necessary.

2. Deck Maintenance

It is not recommended to carry out installation of decking at temperatures below -5°C.

Before installation, the unpacked product should be kept in the installation spot for at least 12 hours for temperature stabilization.

Maintain cleanliness in the gaps between the boards and around the perimeter of the flooring for good air circulation and removal of rain and melted snow.

It is necessary to clean the deck at least once a year under a pressure of no more than 80 bar, at a distance not less than 200 mm, with water or with addition of wood-safe detergent.

If oil or grease gets on the surface, wash it off as quickly as possible using wood-safe detergent or a solution of 1/3 cup of laundry detergent and 2/3 cup of household cleaner for 4 liters of water.

Do not leave cleaning agents on the surface of the flooring for more than a few minutes, thoroughly rinse them with water.

Do not use chlorinated solvents, alkaline substances, active oxidizing agents, abrasives, brushes with hard bristles to clean the dirt.

Use padding under flower pots and for furniture legs.

Do not use rubber mats on the terraces, their base may stain the terrace. Use vinyl or fabric mats.

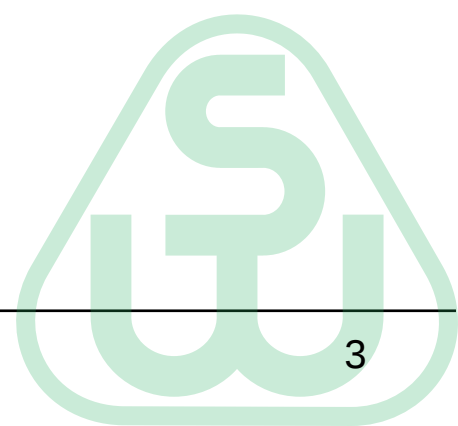
Do not place objects heated above 50°C on terraced flooring, the flooring may be deformed.

Do not leave metal objects on the flooring that may leave rust stains.

To clean the snow use only plastic shovels and brushes.

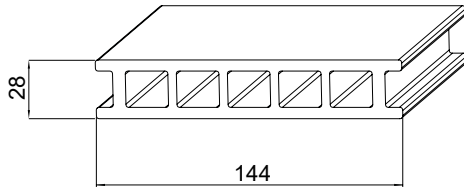
Do not exceed the permissible load per 1 square meter of flooring.

Periodically check and adjust the quality of attaching the decking to the base.



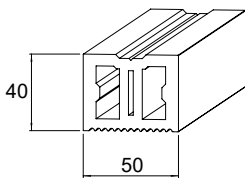
3. Materials

SW Fagus Profile

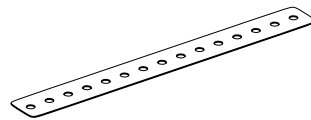


Understructure Materials

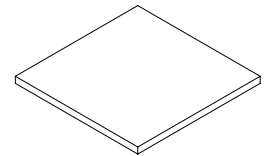
Mounting Lag



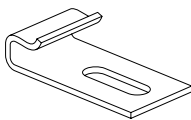
Perforated Metal Tape



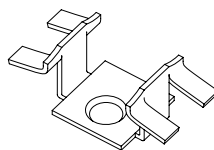
Rubber Pad



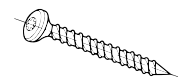
Start Mount



Decking Clip

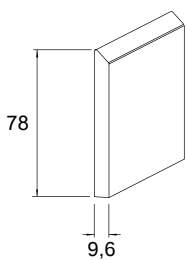


Drill Screws
3.9x19 mm



Edge Covering

Edge Plank



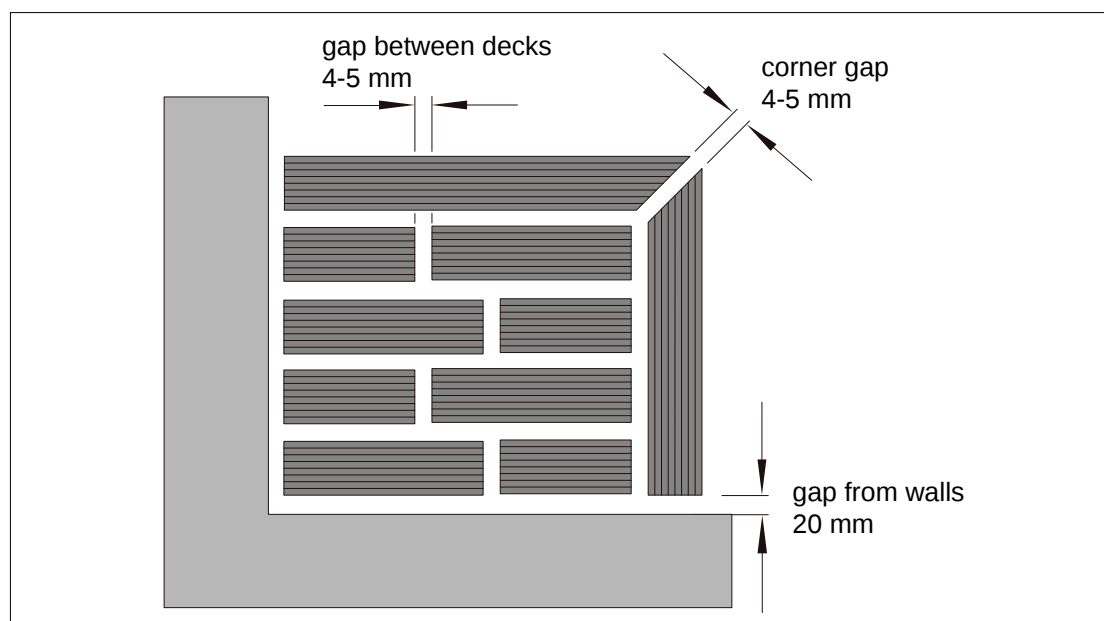
4. Compensation Gaps and Loads Information

The information in this section of the manual is best for decks no longer than 6 m in length and 6 m in width.

4.1 When installing WPC decking it is necessary to consider the linear expansion of material 1 mm per 1 linear meter.

Leave gaps between the ends of the terrace boards of at least 4 mm.

Provide a compensation gap of at least 20 mm when constructing a flooring in an enclosed space and the presence of fixed limiters (walls of buildings, garden fences, curbs, supports, drainpipes, etc.).



It should be considered that when installing in open spaces at a plus temperature during the daytime and minus at night, the compensation gaps will change.

When laying the end boards with a miter joint, a gap of at least 4 mm should be maintained, with the ends of the boards each resting on their own lag, mounted parallel to the seam.

When installing in open spaces it is not recommended to use boards longer than 3 m. If it is necessary to use a board longer than 3 m, it is necessary to calculate the width of the gaps, taking into account the thermal expansion.

4.2 It is not recommended to install products at temperatures below -5°C .

4.3 Do not install the boards directly to a concrete base without using lags.

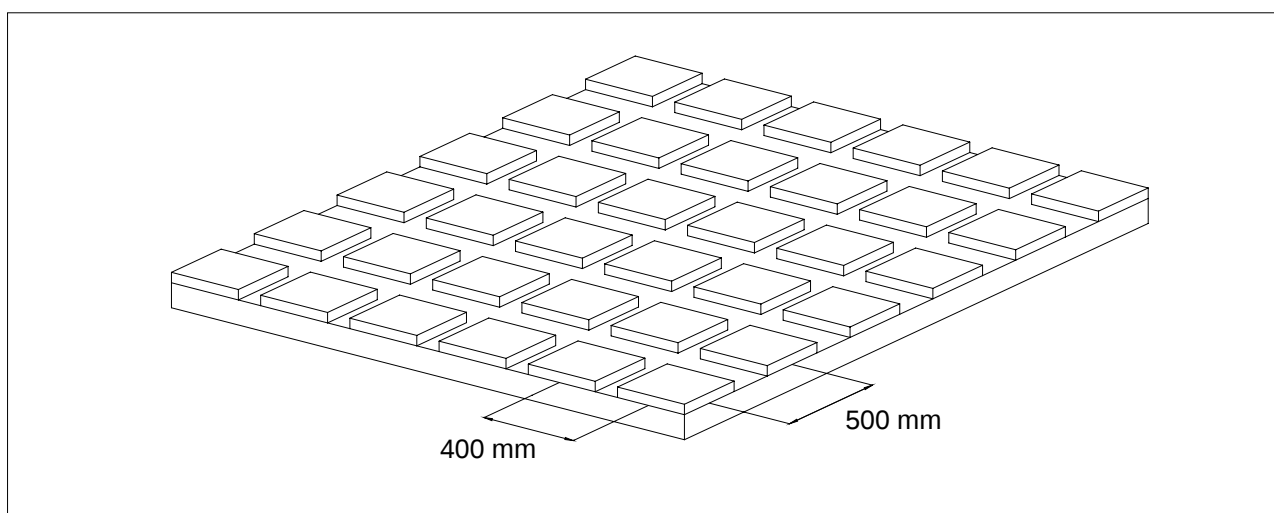
4.4 WPC decking cannot be used as a supporting structure. The SW Fagus decking board withstands a distributed load of up to 7,200 kg per square meter of flooring.*

* According to the research "Distributed load on the SAVEWOOD decking", www.savewood.ru

5. Base Setup Recommendations

5.1 For floorings of small areas and which do not require a large bearing capacity, it is possible to build a sand-gravel base. Sand-gravel mixture should be planned out by level and mechanically rammed. Then laying of paving slabs of 300x300x40 mm size with a step of 400 mm is possible.

On sand-gravel base Savewood WPC 50x40 lag or metal 60x40x3 pipe-profile lag can be used.

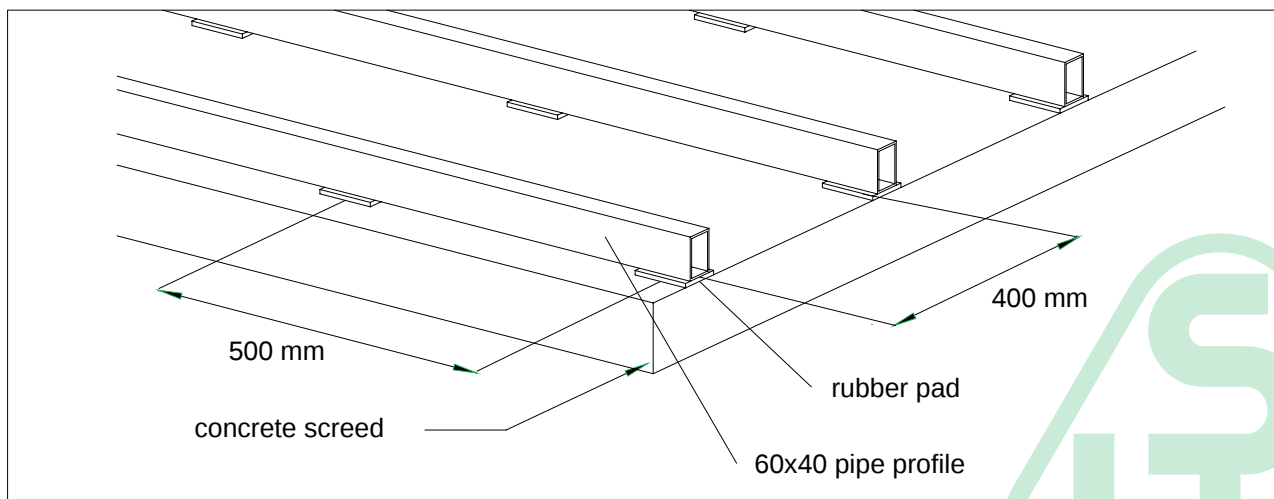


5.2 For decking construction it is possible to build concrete foundations that have a greater bearing capacity.

The concrete screed must be in level and have a smooth surface.

Laying of WPC 50x40 lags, WPC 33x48 lags, as well as logs from a 60x40x3mm pipe profiles is possible on concrete base.

In the presence of significant differences in the height of the concrete screed, the alignment is performed by adjustable support pedestals. The pedestals are installed with distance no more than 500 mm. Laying of WPC 50x40 lag or of 60x40x3mm pipe profiles is possible on adjustable supports.



5.3 For construction of decking it is also possible to build a base on screw piles, followed by making welded metal framework. 60X40X3 mm metal pipes or WPC 50X40 lags can be used on top of the framework. The base on the screw piles has a high bearing capacity and allows you to create complex structures of metal frame.



Recommendations for choosing the type of base in this manual are advisory. In each case, it is necessary to take into account individual specifics. If you have doubts about the foundation or creating special projects, contact a Savewood technical specialist.

6. Lag Installation Requirements

The information in this section of the manual is intended for the installation of decks no more than 6 m in length and 6 m in width.

6.1 The base for the installation must be smooth and durable (for example, concrete screed, concrete beams, concrete slabs).

It is not allowed to lay the support logs directly into the ground.

When operating flooring lags should not be in water.

A sufficient rain and melted snow drainage system should be provided under the flooring.

To avoid high humidity, air circulation should be arranged under the flooring.

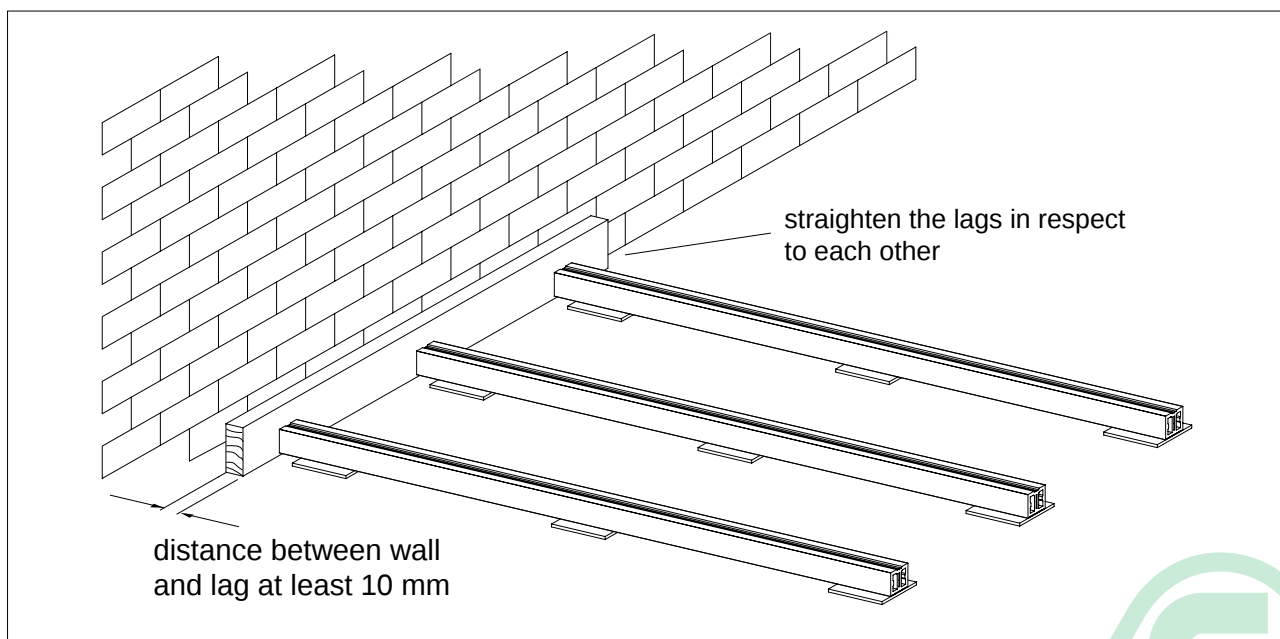
For installation use corrosion-resistant screws.

When using metal pipes as lags, it is necessary to pre-paint them.

If metal profiles are used as lags, before installing decking it is necessary to lay rubber padding on it to prevent noise (squeaks, knocks) during further use.

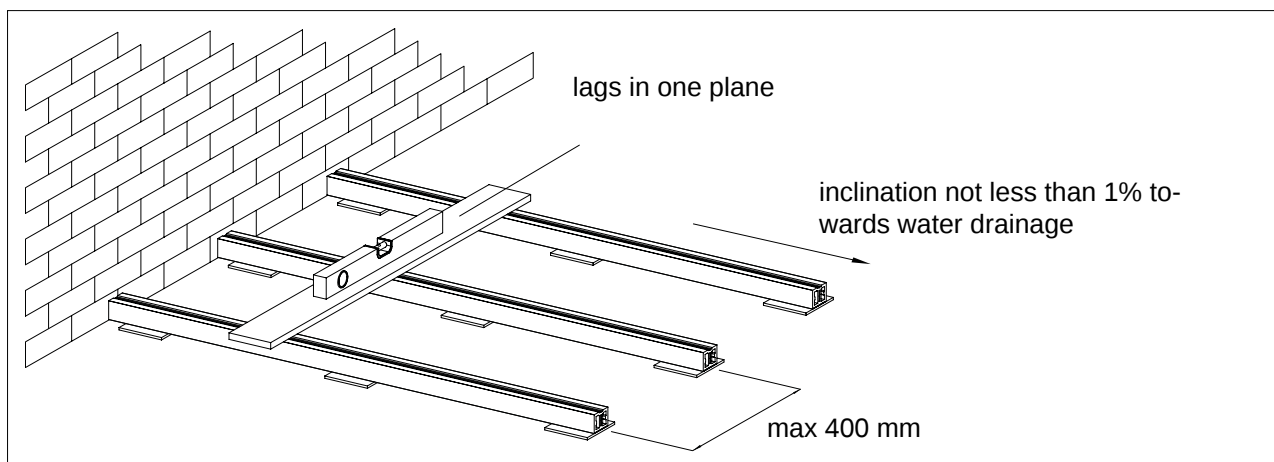
Lags should be installed in the same plane, sagging and bending is not allowed.

The distance between the wall and the lag should be at least 10 mm.

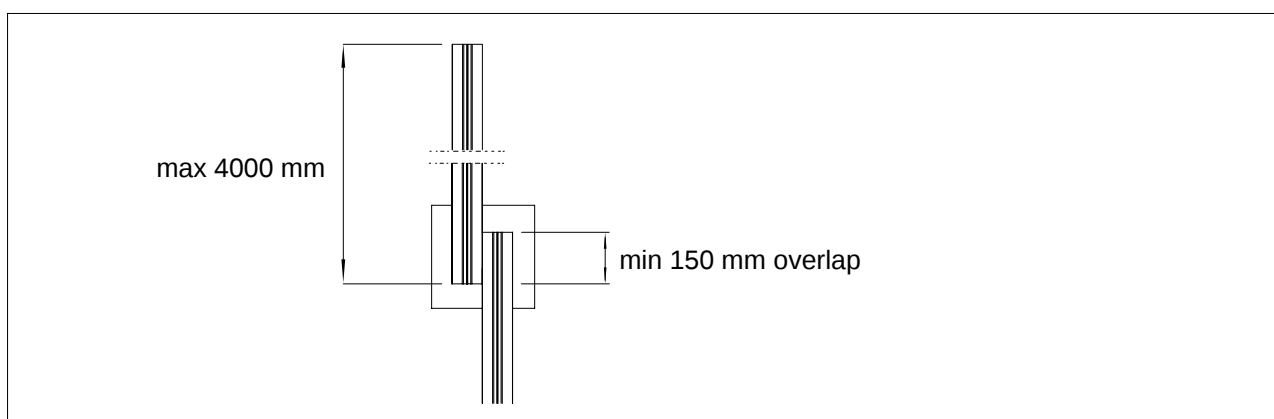


Lags are installed with a maximum gap of 400 mm, parallel to each other and at an angle of 90 degrees to the direction of decking boards.

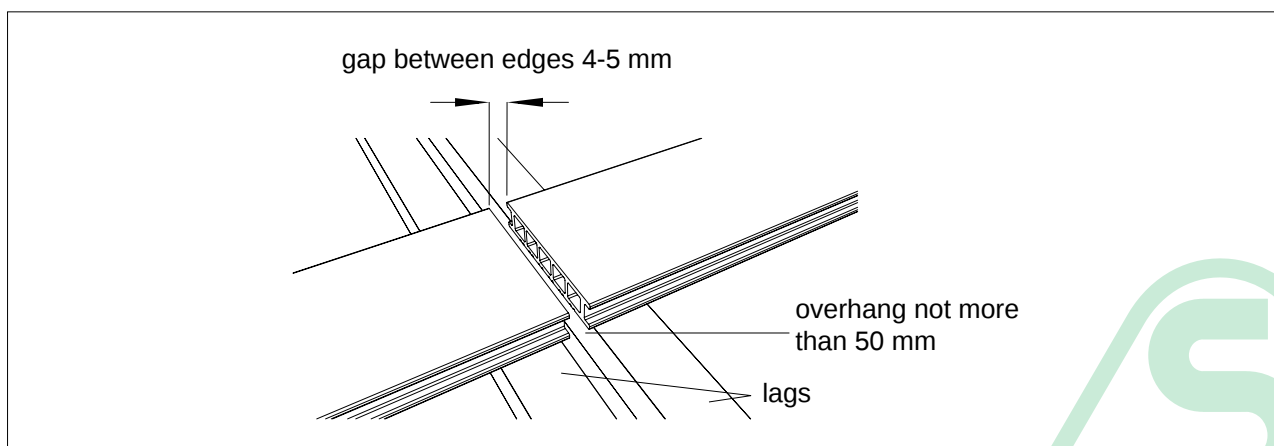
On areas where more pressure on decking is presumed, the lags should be set with a maximum gap of 300 mm.



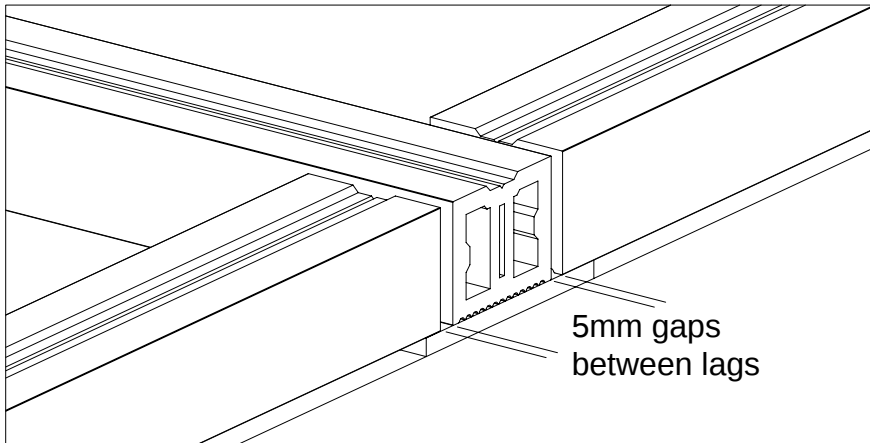
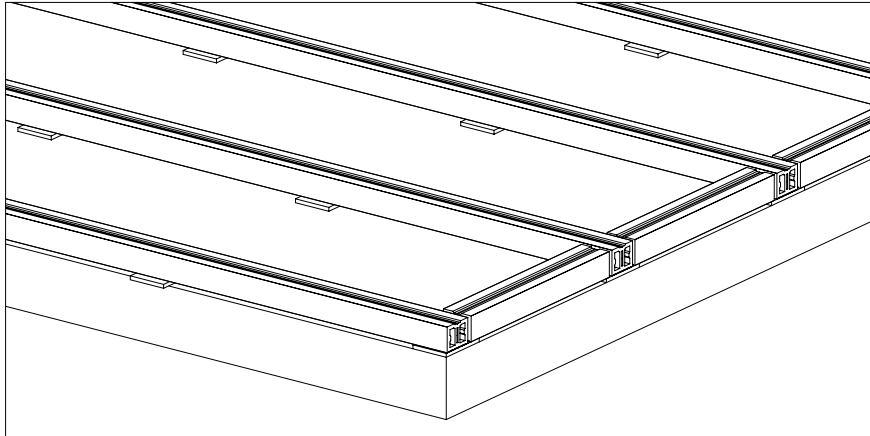
WPC lags, if their continuation is necessary, should be stacked overlapping each other not less than 150 mm and fastened with perforated metal tape.



When docking boards in the flooring, provide one support lag at each end of the board; the overhang of the board with the lag should be no more than 50 mm.



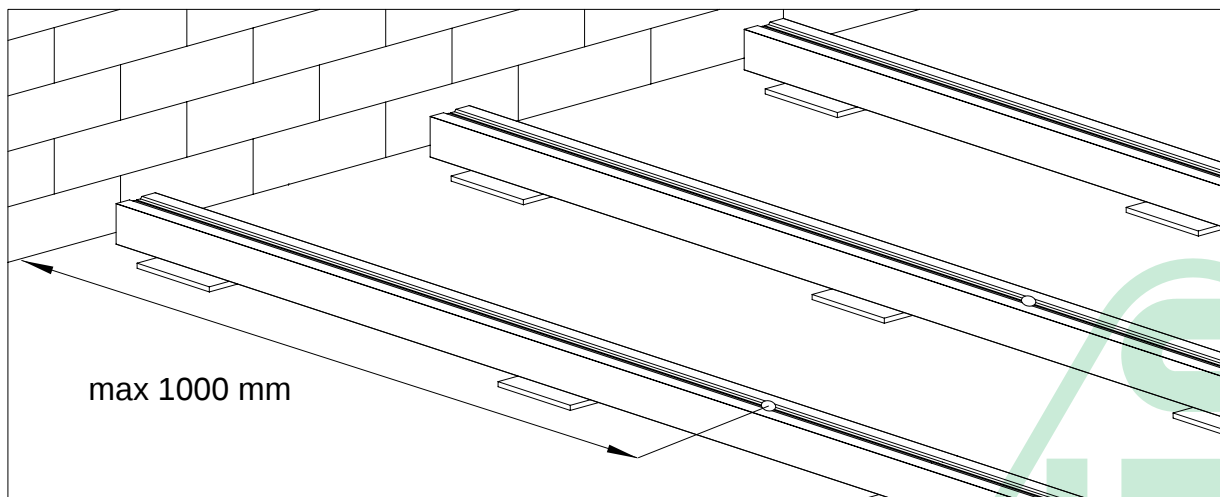
In places of pedestrian approach to the flooring, as well as if finishing of the ends of the site is necessary, the lag should also be installed along the perimeter of the flooring.



Rigid fastening of the lags to the base (by dowels or anchors) is not allowed.

To prevent the lags from shifting on the base and to facilitate installation, it is allowed to be rigidly fastened with a dowel, but not more than once throughout the entire length of the lag.

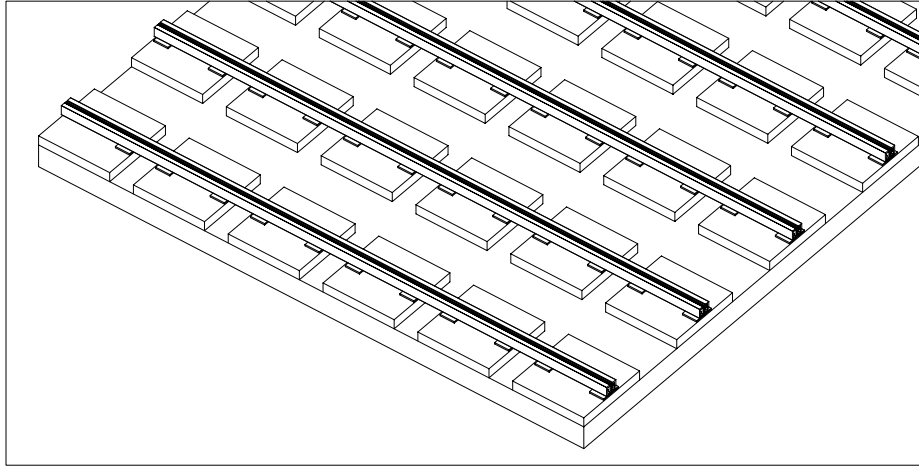
If one edge of the lag comes to the wall or another obstacle, it should be fixed no further than 1000 mm from the wall.



6.2 Installation of lags on sand and gravel mix base

Pavement tiles 300x300x40 mm should be stacked under the lags. The distance between the axes of paving slabs, along the lag laying line should not exceed 500 mm (200 mm between the slabs).

The distance between the points of support along the line of laying the board should be 400 mm.



For laying on paving slabs it is necessary to use WPC lags 50x40 metal pipe lags min 60X40X3 mm.

To prevent noise (squeaks, knocks) during the use of the flooring, rubber pads are placed on each pavement tile. For WPC lags it is necessary to lay two rubber pads at each end of the lag.

WPC lags should be attached to the paving slab through a rubber pad with dowels using perforated metal tape.

Metal profile pipe lags allow rigid fastening (with dowels or anchors).

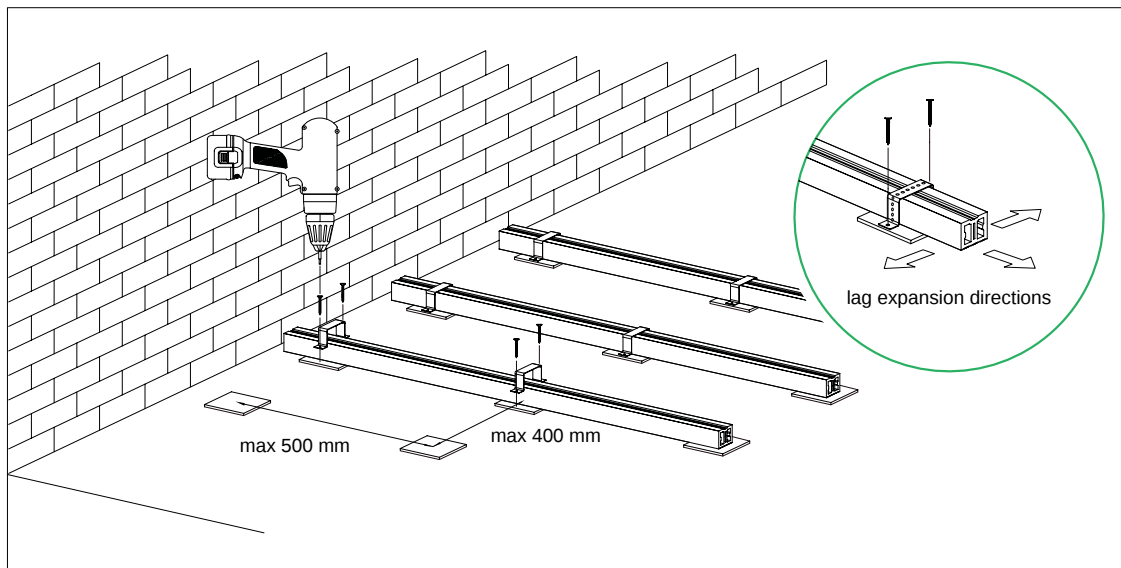
All lags must be in the same horizontal plane.

6.3 Mounting WPC lags on concrete base

In order to avoid unwanted sounds (squeaks, knocks) during the use of the flooring on concrete base, the lags are stacked with gaps of 400 mm, placed on rubber pads set at intervals of not more than 500 mm.

In the interval of 500 mm, above each pad, WPC lags are fixed to the concrete with perforated metal tape.

Lags made of metal tube allow rigid fastening (dowels or anchors). All lags must be in the same horizontal plane.



For concrete base, installation of WPC lags 50X40, WPC lags 33X48 as well as 60x40x3 mm metal lags is allowed.

When using WPC 33x48 lags, the number of rubber pads must be increased and stacked in 300 mm steps along the lag direction.

If there are significant height differences on the concrete base, lags are mounted on adjustable support pedestals.

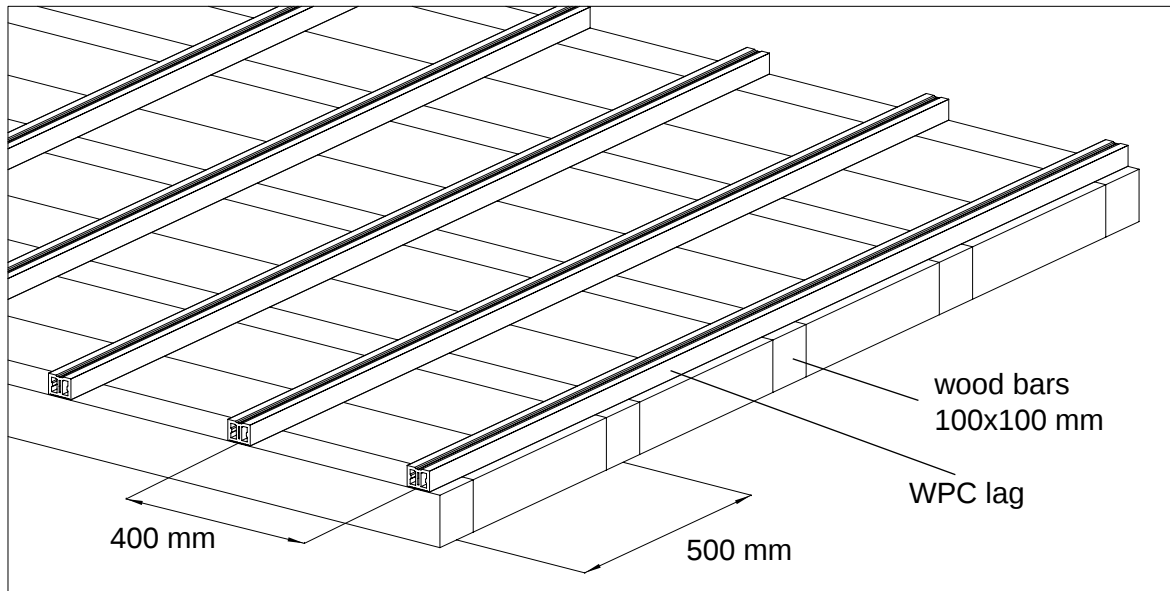
The supports must be installed with gaps of at least 500 mm along the lag direction and with gaps of 400 mm in decks laying direction.

Lags are fastened on adjustable support pedestals with special fasteners that are included in the support pedestals kit, or with the help of a perforated metal tape.

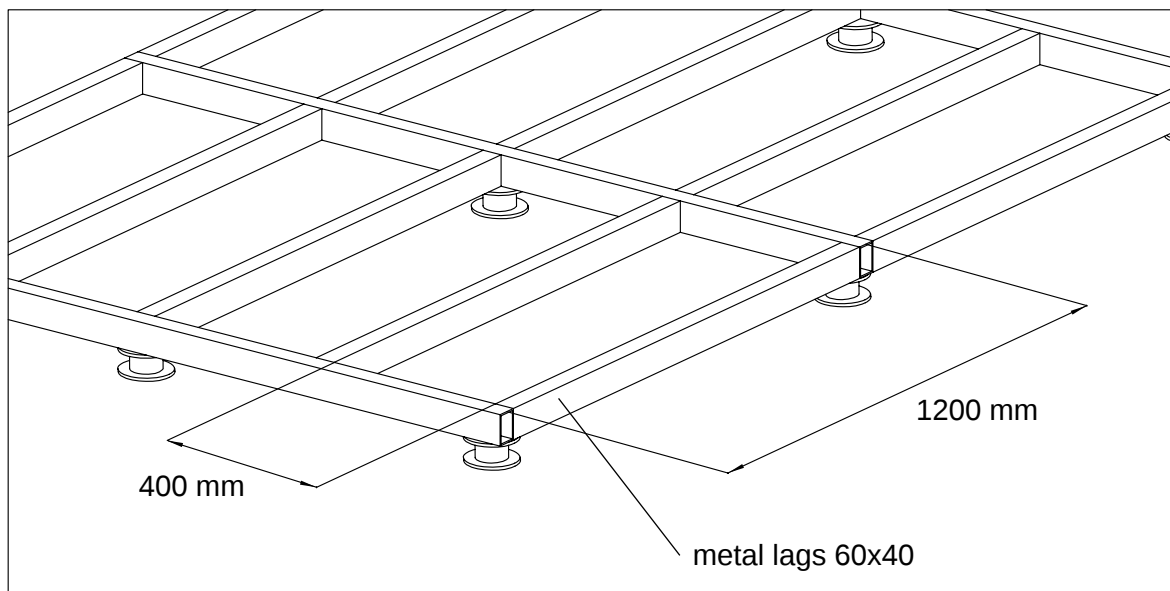
Mounting of WPC 50x40 lag, as well as metal lags, is allowed for adjustable support pedestals.

6.4 Mounting lags on metal or wooden frames

Installation of lags on a wooden frame with bar cross-section of 100x100 mm with a gap of 500 mm is allowed, when using WPC 50x40 lags and with a 900 mm gap when using metal lags 60x40x3 mm.



Installation of lags on metal frame with a 60x40x3mm profile section in 500 mm gaps is allowed when using WPC 50x40 lags and with a 1200 mm gap when using 60x40x3 metal lags.



7. Decking Installation

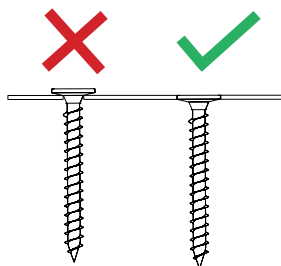
The information in this section of the manual is intended for decks no more than 6 m in length and 6 m in width.

7.1 Beginning installation. Installation of starting mounts.

It is recommended to start the installation from walls or other objects, which will facilitate the beginning of the installation and allow you to correctly install the final board.

Starting fasteners are attached to the edge of each lag at the beginning of the intended deck.

Screw protrusion is not allowed, as this will interfere with the normal installation of the first board.



Do not apply excessive force when screwing the screw into the lag to avoid rolling the screw.

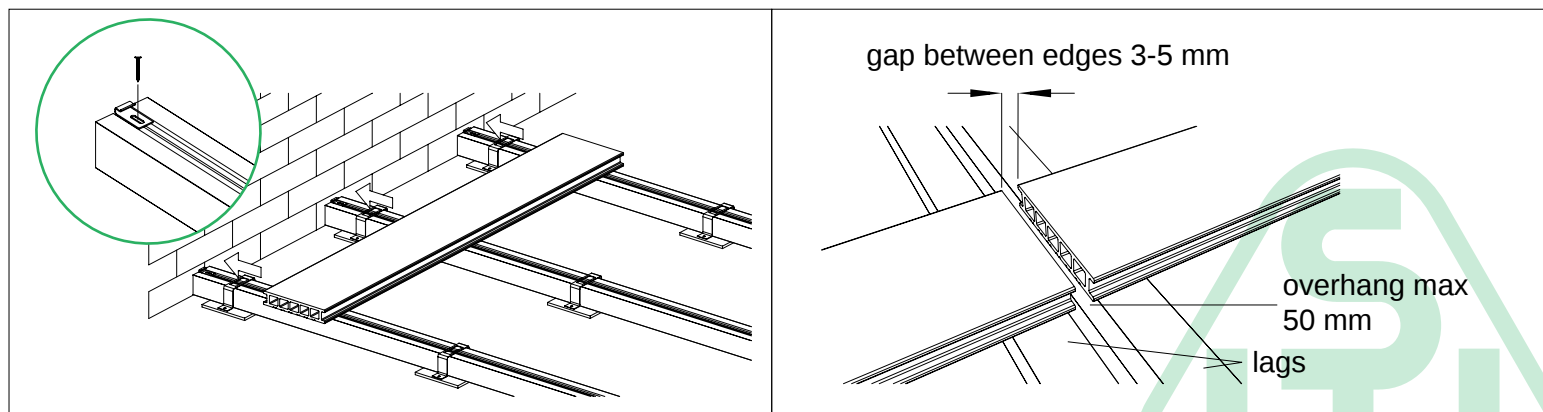
It is recommended to use a screwdriver with adjustable torque to avoid breaking the screw thread.

You must make sure that when installing the first board, the distance between the board and the wall will be not less than 20 mm.

All starting mounts must be set strictly in one line. For installation and verification of linearity it is recommended to use a building cord.

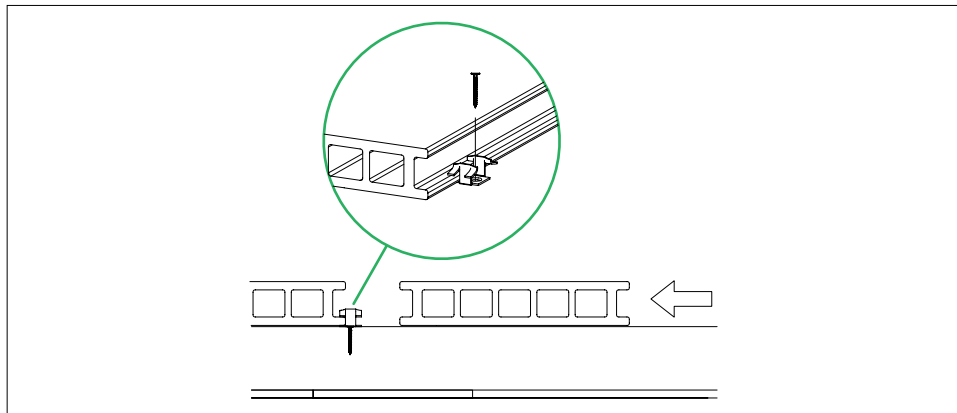
The first board slides into the groove of the starting mount. Avoid unnecessary effort when installing the first board, it can lead to the displacement of the starting mounts and disrupt the straightness of the installation of the first board.

The maximum overhang of the end of the board with a lag cannot exceed 50 mm.



7.2 Further Installation

The first board is fixed with the help of a Decking Clip, which is attached to the log on the screw.

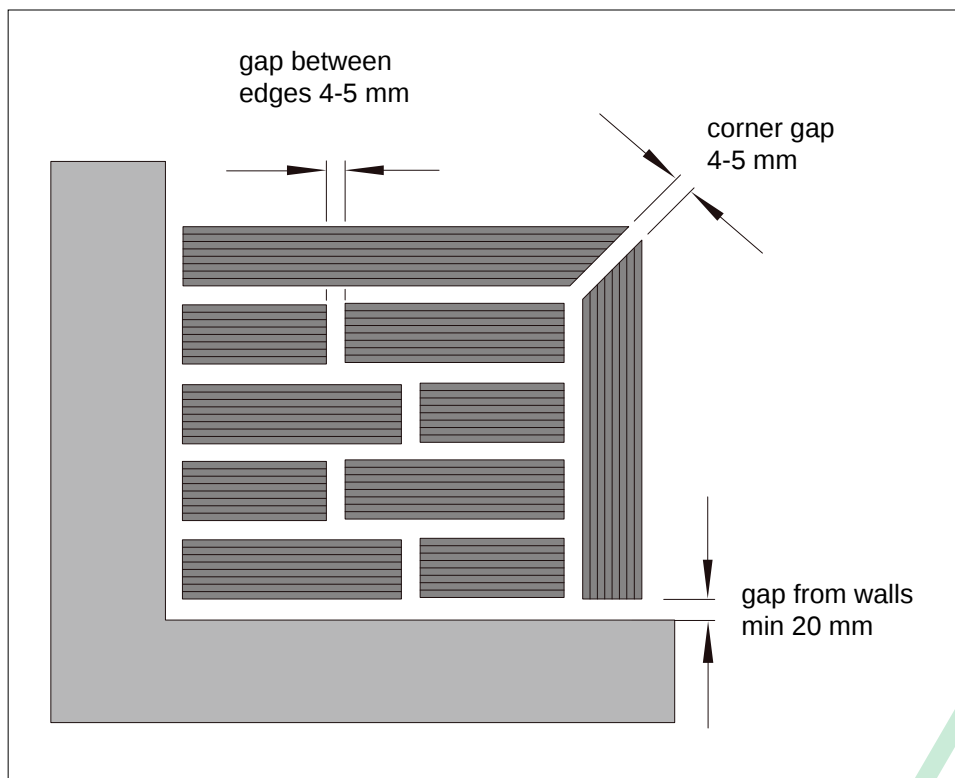


Screws protrusion is not allowed, as this will interfere with the normal installation of the board.

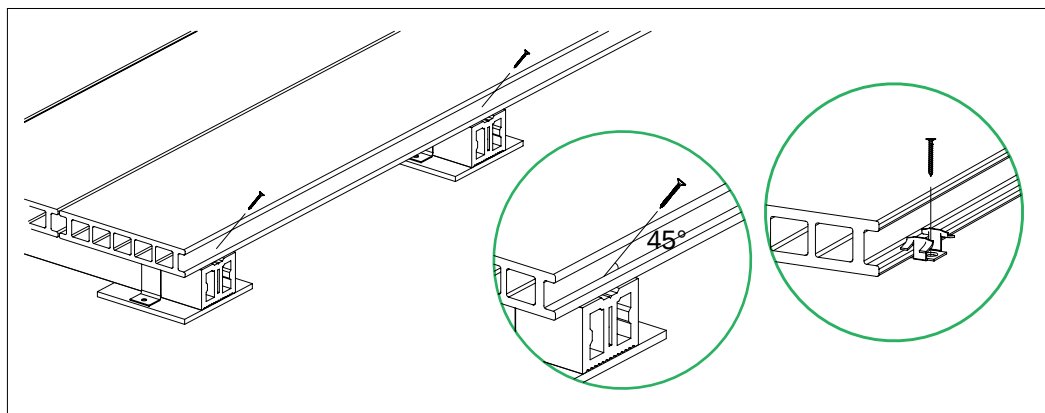
The following board is inserted into the groove of the clip.

When installing further boards, it is necessary to check the uniformity of gaps and the parallelism of laying boards.

When laying boards in a confined space, leave gaps of at least 20 mm from the walls of other obstacles, as well as when joining boards at least 4 mm at the ends.

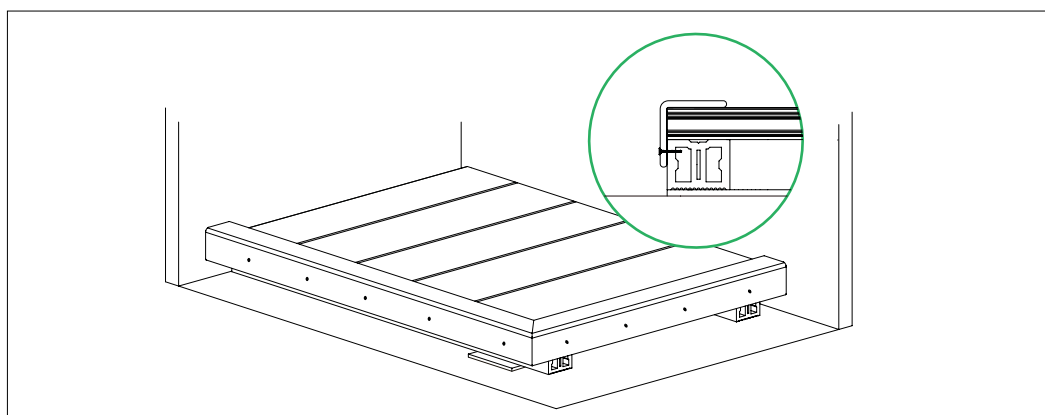


The last board of the deck is fixed with a screw at an angle of 45°. If the last board cannot be fastened with a self-tapping screw, it can be fixed with Decking Clip.

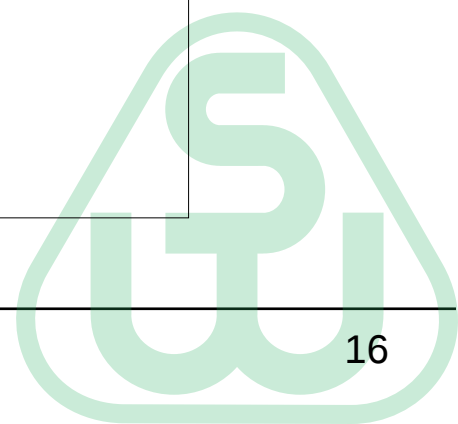
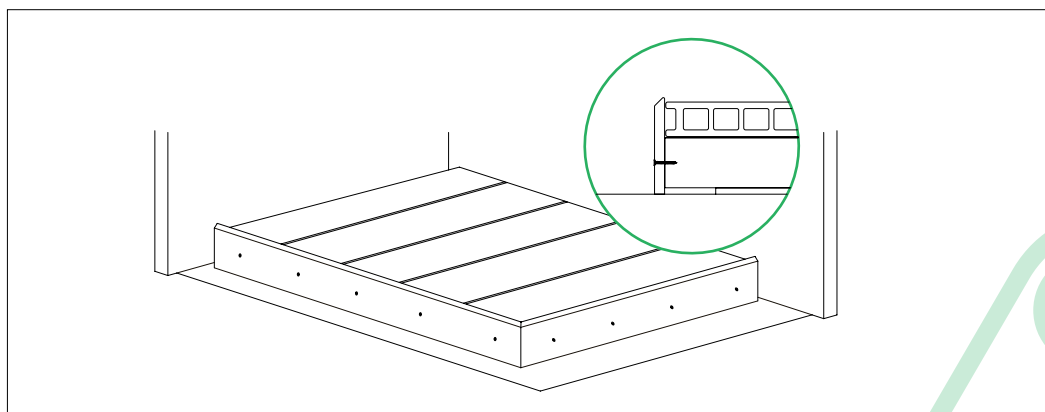


7.3 Covering deck edges

Option 1. The edges of the deck are covered with corner profiles. The corners are attached to the lags with screws with maximum gap of 300 mm into the pre-drilled hole 2 mm larger than the diameter of the screw.



Option 2. The edges of the deck are covered with edge planks. The end planks are attached to the lag by screws with a gap of no more than 300 mm into the pre-drilled hole 2 mm larger than the diameter of the screw.

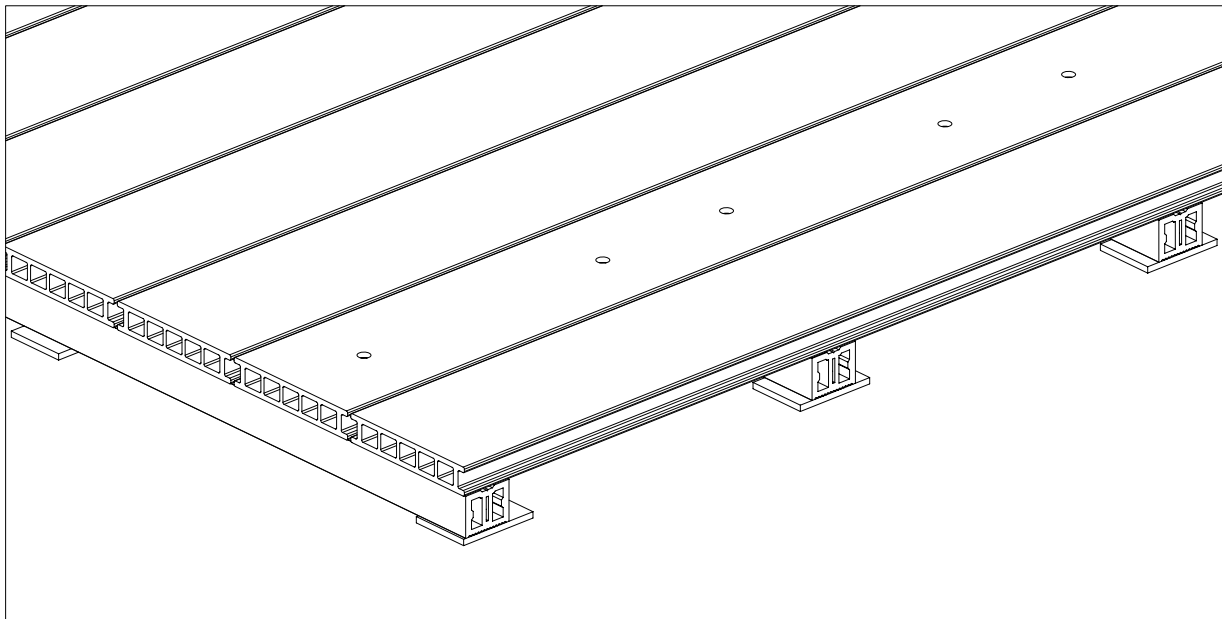


This section of the manual is for guidance purposes only, therefore we recommend contacting Savewood technical specialists for professional replacement of damaged boards.

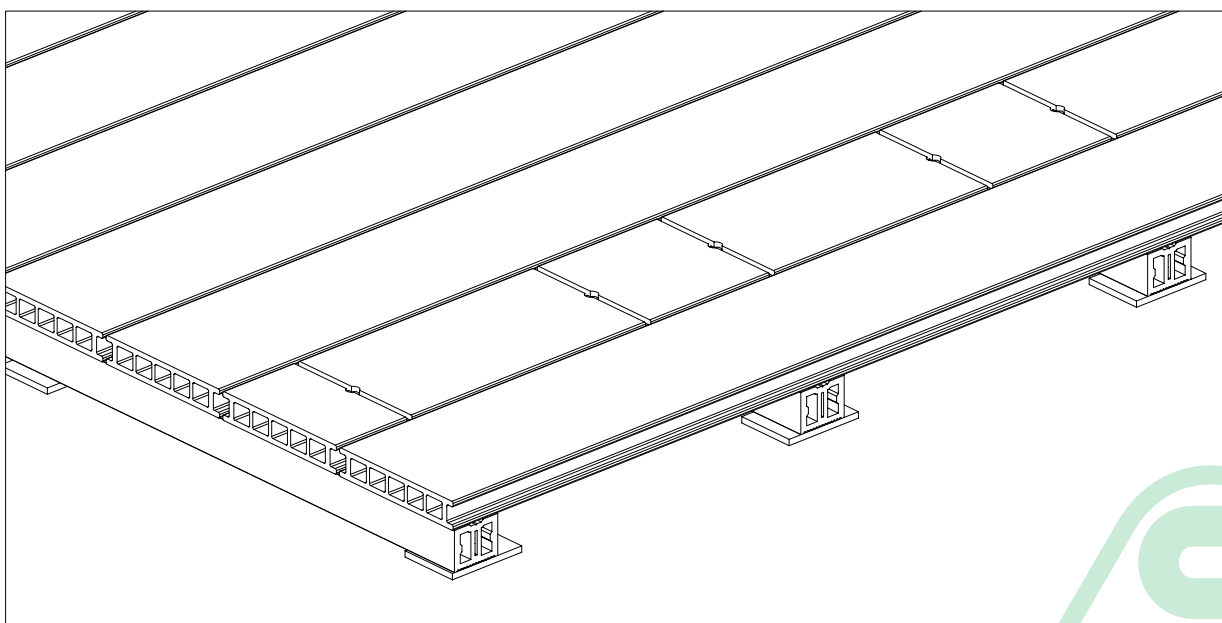
7.4 Replacing a damaged board

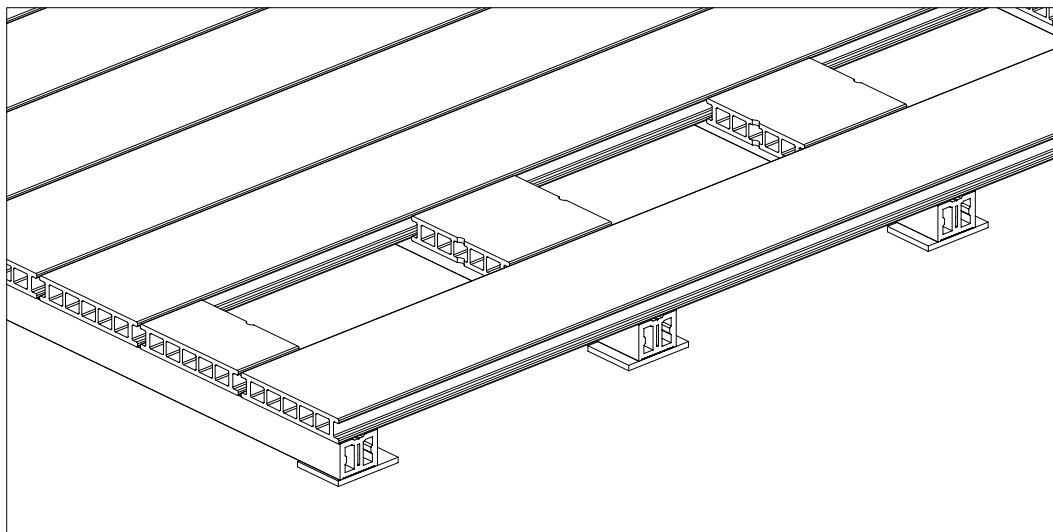
If it is necessary to replace a damaged board, first of all it is necessary to make sure that it can be moved to the side along the flooring.

Then it is necessary to drill 2 holes with diameter of 10-12 mm on each side of the lag throughout the entire board in places of its attachment to the lag. Holes should be drilled at 30-50 mm from the edge of the log.



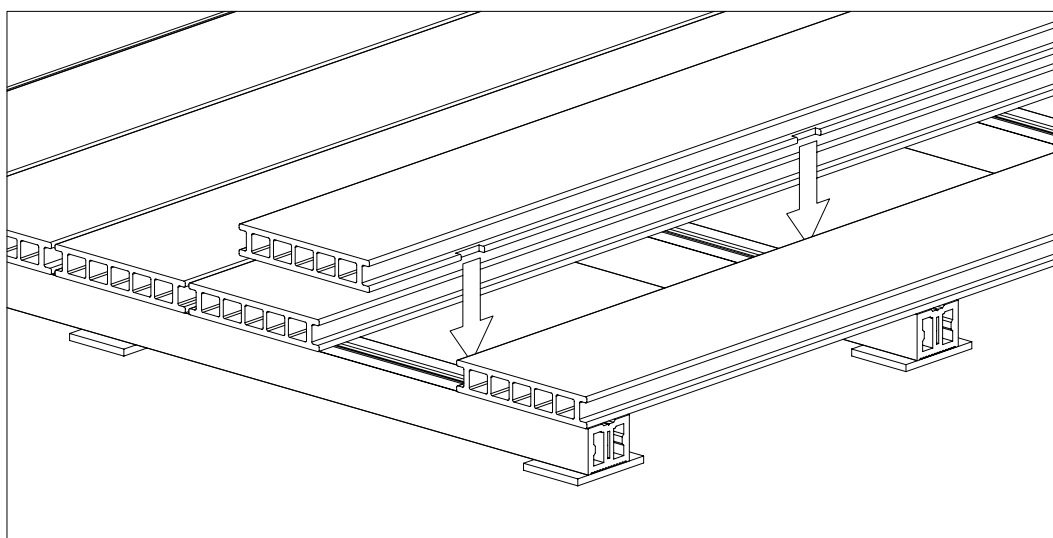
An electric jigsaw blade is inserted into these holes, then the board must be sawed off and its pieces removed. The pieces remaining on the logs are retrieved by shifting them to the side.





Make sure that the electric jigsaw working stroke allows you to cut the board and the file will not hit the base.

Then you should prepare the board of the required length and make cuts on it in places of clips for inserting it.



In order to make the markings for the cuts as accurately as possible, the board must be set to the place of its attachment, with a shift.

It is necessary to shift not less than 50 mm. Make a mark on the bottom shelf of the board in the places where the clips are installed.

The saw blades must be of such size that a mount passes through them. The cuts need to be processed (remove burrs and chamfers), this will facilitate the installation of the board.

The board must then be installed with cuts to the clips and shifted to the side, making sure that the bottom shelf of the board catches the clips.

