

DUMADECK INSTALLATION INSTRUCTIONS

Equipment required for installation:

- jigsaw/hand saw
- pencil
- ruler or tape measure
- safety gloves
- drill
- (electric) screwdriver
- wooden or rubber hammer

Carefully read the installation instructions. If said instructions are not carefully followed, the warranty will not be valid. All information is provided in good faith and reflects our current knowledge and may therefore not be used against us.

Acclimatisation, preparation and inspection

- Before installing the decking, it is important to allow the decking boards to adapt to their environment for 48 hours. Lay the boards on support beams away from direct sunlight or rain. The support beams must sit on an even support and must be spaced no more than 70 cm from each other.
- Use at least two people to install the decking.
- Do not install the decking boards at a temperature below 0°C.
- The decking boards are not to be used as a supporting structure or foundation for application in galleries, on balconies, stairs, etc. To this end special precautions must be taken in order to satisfy applicable standards. Existing balconies, stairs, etc., can be covered with boards.
- There may be slight colour variations in the various boards, which are especially designed to create a realistic effect in large surfaces.
- Carefully check each board before installing it. A board that is flawed before installation and that is still installed, will not be covered by our warranty.

Foundation

- The foundation must be completely level and stable with a slight slope in the decking of approximately 10 mm per metre lengthwise. In the event of insufficient drainage (never less than 5 mm per metre) holes can be drilled in the bottom of the hollow version of the decking boards in order to allow for the drainage of condensation water. When the decking is installed on pedestals (decking supports) a slope of the decking is not necessary.
- Install the decking on a concrete foundation, on cement ground or on a supporting structure. A layer of broken bricks and rubble with a grain size between 5 and 40 mm must be placed under the cement ground.

Installation of support beams

- Always use matching support beams of the manufacturer for the installation, or else the guarantee will not be valid.
- The support beams should not be considered as a structural foundation and must be supported across their entire length, unless the decking is installed on pedestals (decking supports). A distance of maximum 50cm (centre-to-centre) between the pedestals is to be respected. The support beams should not be embedded in concrete, glued or attached in some way to each other.
- Put the support beam with the jagged side downwards and the notch upwards. The notch can be used to countersink the screws that are used for fixing the support beams.

- Install the support beams at least 10 mm lengthwise and widthwise from any fixed structure. Allow for a play of at least 20 mm among support beams **(drawing no. 1)**.
- Allow the ends of each decking board to rest on a support beam and secure the ends in order to prevent any warping due to their own weight and in order to prevent the risk of breakage due to loads on the overhang. If the boards are placed next to each other lengthwise, both board ends must be supported by separate parallel support beams **(drawing no. 2)**.
- Drainage takes place in the direction of the decking boards, therefore perpendicular to the support beams. To this end leave gaps between the cross beams for proper drainage **(drawing no. 1)**.
- Only use stainless steel screws. Secure the support beams to the foundation, whereby anchoring points are spaced no more than 50 cm lengthwise **(drawing no. 1)**. Secure beams that are shorter than 1.5 m to the foundation with suitable hardware.
- When it is not possible to fix the support beams to the foundation (for instance on a roof), they can also be installed and fixed onto pedestals (decking supports) with a maximum distance of 50cm (centre-to-centre) between the pedestals.
- For installation at an angle the following distances between support beams are to be respected **(drawing no. 3)**:

angle between support beams and boards	recommended distance between support beams (*)
90°	50 cm
45°	35 cm
30°	25 cm

(*) For commercial applications with heavy traffic each distance must be decreased by 10 cm.

Swelling

- The swelling of the decking is due to the wood fibres processed in the raw material, since said wood fibres have a very low degree of humidity, which results in initial moisture absorption and swelling. Please take into account the following points:
- Initial expansion of the decking boards on the order of 3 mm/m in order to determine the necessary expansion gaps. The eventual gaps will become smaller over time (approximately one year).
- For decking longer than 6 metres, only decking boards with a length of maximum 3 metres may be used. In addition, leave a gap of 8 mm between two boards at the ends.
- In decks with a total length of more than 12 m, the decking must be split into separate modules.
- The mounting clips may not be installed at the ends of the boards, only on the sides!
- Also allow for an 8-mm gap between mitred decking boards. The ends of both decking boards must be secured using a mounting clip. To this end two support beams must be included.
- If the decking is wedged between two walls, allow for a gap of at least 15 mm between the wall and the decking boards. Also when installing the first board a gap of at least 15 mm must be left between the long side and the fixed structure **(drawing no. 4)**

Method for securing the boards to the support beams

- There are clips to secure the boards to the support beams and a start profile **(drawing no. 5)**:
 - Start profile (A)
 - connection clips (B)
- The connection clips allow for a play between boards and can be used for both hollow and solid versions of the decking boards.
- Secure the clips to the support beam using the accompanying stainless steel screws (length 30 mm, diameter 3.5 mm, with countersunk head). Use a screwdriver with a depth guide in order to prevent the screws from loosening **(drawing no 6)**.
- It is necessary to pre-drill the start profile. If necessary, drill an additional bevel depending on the screws used in order to allow the screws to be countersunk sufficiently **(drawing no. 7)**.
- Use 35-mm long screws for fastening in wooden support beams.
- Do not screw at less than 3 cm from the end of boards to avoid splitting.
- Gluing is absolutely prohibited since the boards must be able to air and expand with temperature fluctuations.

Installation of the boards

- Take into account expansion gaps as described above.
- Pay attention to the direction of the decking boards. A small mark on the boards indicates which board ends are to be laid in the same direction. For solid boards a code is printed at the bottom on one specific side of the board, for the hollow version there is a small bulge on one side **(drawing no. 8)**. Ensure that the code or bulge is always facing the same direction.
- Installation of the first board **(drawing no. 9)**:
 - A – 1: Screw the start profile into the support beams
 - A – 2: Slide the first board into the start profile
 - A – 3: Push until you hear a click
 - B – 1: Slide the connection clips (with the waving part) in the groove on the other side
 - B – 2: Pull the clips outwards as far as possible so that the drilling hole is completely visible
 - B – 3: Screw the clips into the support beam
- When mounting the clips pay attention to its direction. Rotate the clips during mounting in order for the protruding waving part of the clips to be facing the installed board, or else the following board cannot be slid over the clips.
- Place the second board with the opening at the bottom on top of the protruding part of the previous board's connection clips **(drawing no. 10A)** and push the board firmly into the clips until fixed **(drawing no. 10B)**. Place another clips in the second board's groove and screw tightly into the support beam. Repeat until the last board.
- Saw the last board to the correct width if it is impossible to end with a full board. Take into account the expansion gaps to be respected. Place the last board on the protruding part of the penultimate board's clips and slide the board firmly into the clips **(drawing no. 10B)**.
 - Option A (ending with full width): saw the clips to 3 mm from the screw hole so that the screw hole can still be used to fasten the clips to the support beam. Slide the sawed clips into the last board's groove and screw tightly into the support beam **(drawing 11A)**.
 - Option B (ending with sawed off width): screw the board from the top through pre-drilled screw channels. Make the screw channels oval in order to allow for the board's swelling **(drawing 11B)**.
- For decking whereby more than one board is to be placed lengthwise, it is recommended to stagger boards. Start the second row of boards with a half board **(drawing no. 2)**.

- Decking boards are to some extent subject to temperature fluctuations. Therefore allow a gap of at least 3 mm per metre on all sides, for example a 9-mm gap for a 3-metre board.

Maintenance

- Use a brush or high-pressure cleaner (max. 80 bar) for regular maintenance. When cleaning always follow the direction of the boards. Do not use dirtblaster and keep the water jet at a safe distance in order to prevent damage. Where necessary, use a mild detergent. Under no circumstances should solvents be used.
- Ensure that the gaps are clear and that drainage is adequate in order to prevent moss formation. Moss formation is also avoided by regular cleaning of the boards.
- Fat and oil stains can best be removed quickly using a household degreaser. Do not allow the stain to dry or penetrate into the material. If the stain does dry, clean thoroughly using a high-pressure cleaner and sand in the direction of the grooves. Discolouration will stabilise over time.



