

Installation manual

UNI/EVO Board fastener

UNI/EVO Z2 and Z1, galvanised, can be used to connect wooden boards of all standard soft wood species, e.g. Douglas fir, larch, spruce, fir, pine.

UNI/EVO A2 and A1 stainless steel, can be used to connect wooden boards of all standard hard and soft wood species.



The manual is also available under www.reif-woodlink.de

IMPORTANT!

Thanks to your decision for the **REIF ■ WoodLink** wood connection system, you have decided to use a proven and extremely durable system. Wood is a natural product that has a life of its own. It is therefore very important, before starting to lay the boards, that the conditions are optimally prepared and that laying is carefully implemented.

We have summarised what you need to pay attention to during preparation and how to proceed during laying in the following installation manual.

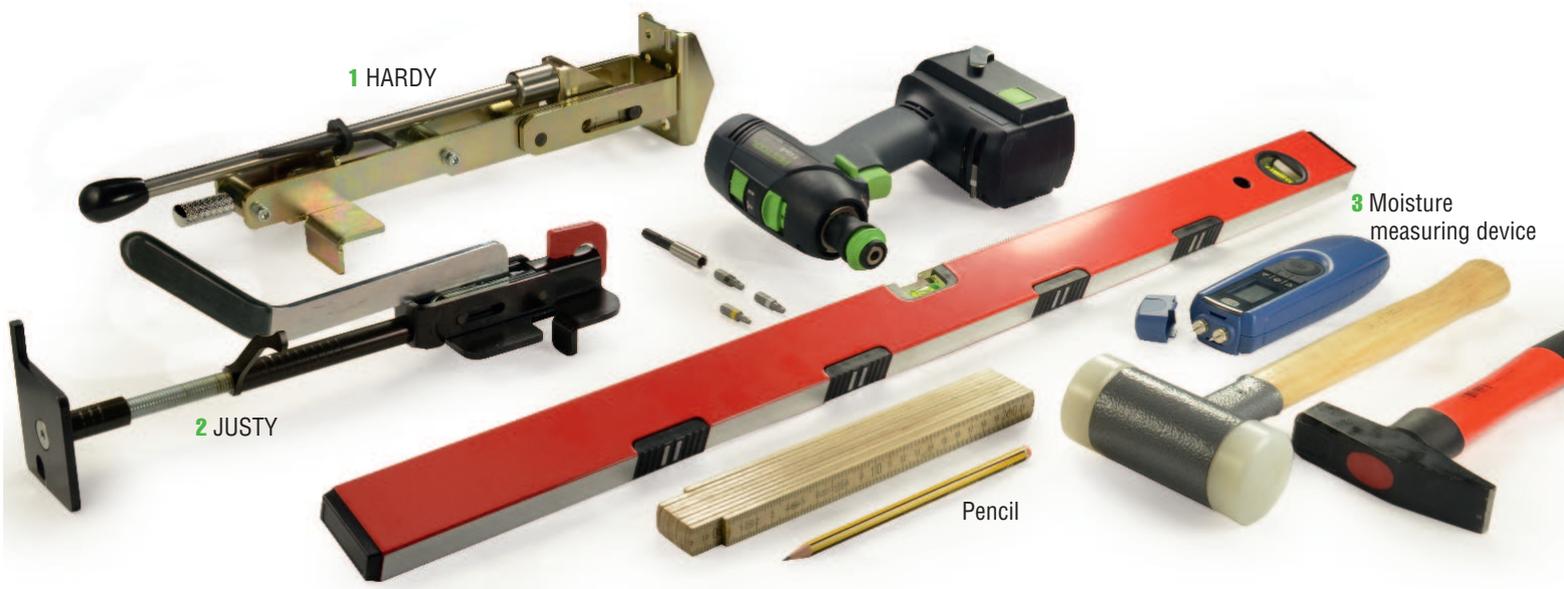
The essential requirement for a durable wooden decking is the correct

wood moisture. You must obtain information about this point from your wood retailer. Don't worry, the manual is much easier than it looks. Take the time to read the manual carefully; you will more than gain back the time you needed to read it.

We wish you all the best during your installation and many years of pleasure in your new wooden decking.

Your **REIF ■ WoodLink team**

The tools

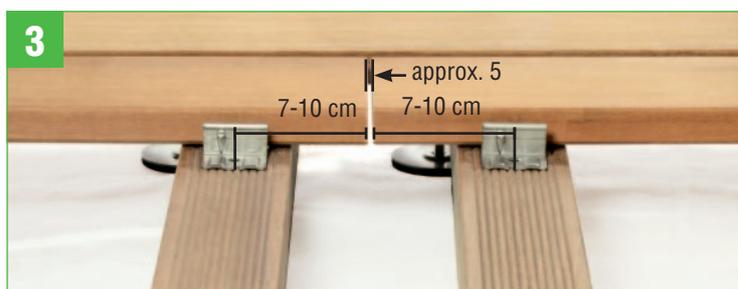
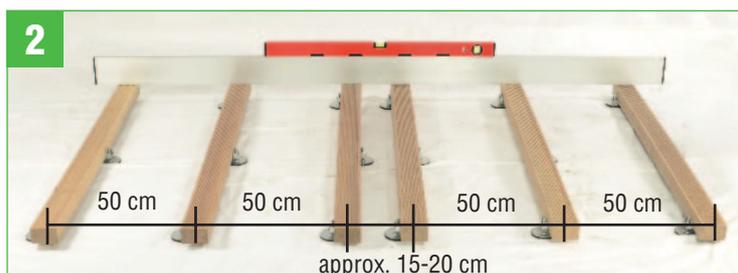


- 1 HARDY laying device
- 2 Laying and fixing device JUSTY (optional)
- 3 Moisture measuring device (optional)

- Screwdriver
- Bit with extension (TX 15, TX 20 and TX 25)
- Hammer (with broad surface or made of hard

- rubber)
- Spirit level
- Measuring stick
- Pencil

The preparation



The following must be checked as an essential requirement for a durable wooden decking:

■ **Particularly important!** The correct wood moisture (this information must be obtained from your wood retailer). The use of a moisture measuring device is recommended. (Fig. 1)

■ The correct wood properties (e.g. sapwood, cracks, resin bleed, spiral grain, etc.)

■ The correct substructure (SS)

■ Prepared and solid substrate (crushed rock or concrete panels, etc.)

■ Load-bearing SS material (if using wood: SS resistance class => board resistance class)

■ Centre distance between individual SS squared timbers, max. 50 cm (Fig. 2)

■ A distance of min. 7 to max. 10 cm between the end of a board and the centre distance of the board fastener must be observed when using a board fastener on a board end.

■ When installing a butt joint, an SS squared timber is required for each board end. These must be laid so that the centre distance of each board fastener to each board end is min. 7 cm and max. 10 cm.

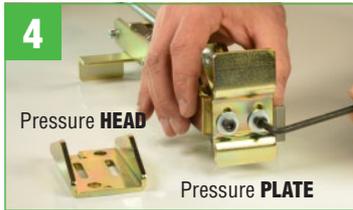
■ It is recommended, dependent on the wood, to maintain a butt joint spacing of approx. 5 mm. (Fig. 3)

■ If wood species subject to significant splitting are used, it is recommended that the boards are pre-drilled at the end of the board. The boards must be drilled at right-angles (borehole diameter 3.0-3.5 mm).

■ According to experts, it is recommended that a slight gradient is produced when laying the wooden decking to ensure that the rainwater can run off. To ensure that the SS are correctly aligned, we recommend the use of the REIF ■ Wood-Link LIFT height adjustment device.

Setting the HARDY* Laying the edge fasteners

* see also the HARDY installation manual



- Using the pressure **PLATE**: (only necessary if the decking edge – e.g. due to house wall – does not offer sufficient space for the pressure **HEAD**.)
- Install the pressure **PLATE** for the



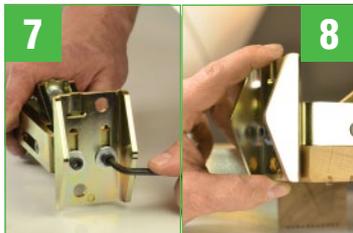
- edge fastener using the provided Allen key and the lower screw holes, then tighten **FIRMLY**. (Fig. 4)
- Mount with the shorter side facing downwards for a board thickness up to 30 mm



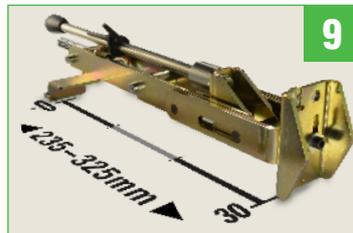
- Mount with the longer side facing downwards for a board thickness of over 30 mm
- Measure the board width and adjust the device as shown below while closed: (Fig. 5)

- Carry out the adjustment by rotating the knurled screw or use the provided Allen key to turn the adjustment screw on the adjustment unit. (Fig. 6)
- Clockwise rotation: open, anticlockwise rotation: close.
- When laying the first board: 2 x board width + 5 mm.
- For surface laying and the last board: 2 x board width + 10 mm.
- 1 rotation = approx. 2 mm

If surface laying – replace the pressure PLATE with the pressure HEAD



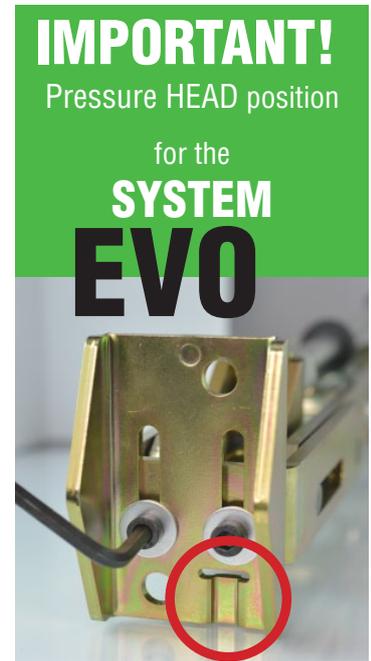
- Undo the pressure **PLATE** screws, remove the pressure **PLATE** and install the appropriate pressure **HEAD** for the **UNI** or **EVO** system. (Fig. 7 and 8)
- Set the pressure **HEAD** to the board thickness and tighten the screws **FIRMLY**. (Fig. 8)
- Measure the board width and adjust the device as shown below while closed: (Fig. 9)
- Carry out the adjustment by rotat-



- ing the knurled screw or use the provided Allen key to turn the adjustment screw on the adjustment unit.
- Clockwise rotation: open, anticlockwise rotation: close.
- 2 x board width + 10 mm.
- 1 rotation = approx. 2 mm
- Further device properties can be found in the installation manual **REIF WoodLink HARDY**.



IMPORTANT!
Pressure HEAD position
for the
**SYSTEM
UNI**



IMPORTANT!
Pressure HEAD position
for the
**SYSTEM
EVO**

Setting the JUSTY* Laying the edge fasteners

* see also the JUSTY installation manual



- Adjust the device using the same sequence as described above.
- 2 x board width + 10 mm. (Fig. 10)

- Measure the board width and adjust the device as shown below while closed:
 - Release the spindle lock
 - Set the clamping range by rotating the pressure plate (1 rotation = 2 mm)
 - Fix the setting manually with the spindle lock (Fig. 10)

- When laying the first board: 2 x board width + 5 mm.
- When laying the last board: 2 x board width + 10 mm. (Fig. 11)
- Clockwise rotation: open, anticlockwise rotation: close.

For surface laying

- Further device properties can be found in the installation manual **REIF WoodLink JUSTY**.

JUSTY is suitable in design for the laying of SOFT WOOD!

Laying Fastening the 1st board with edge fasteners



■ To achieve uniform fixing of the first board, the edge fasteners must be aligned along one line on the SS and fastened in place with the provided TX countersunk screws. (Fig. 13)

■ If wood species subject to significant splitting are used, it is recommended that the SS is pre-drilled at the end of the squared timber (pilot borehole diameter approx. 2 mm smaller than the screw diameter).

■ Set the *HARDY* to the double board width + 5 mm.

■ The first board to be laid must be positioned transverse to the SS, together with a second board as an aid. (Fig. 14)

■ Lay the first board along the edge fasteners so that all spike tips touch the board (longitudinal alignment).

■ Lay the second board (aid board) in parallel to the first board.

■ Position the opened device with the stop bracket on the boards.

■ Position the pressure plate for the edge fasteners centrally on the

substructure.

■ Ensure that the stop bracket is securely fastened behind the second board. (Fig. 27)

■ Lay the pressure plate on the *UNI* edge fastener. (Fig. 15)

■ Push the first board into the edge fasteners one by one by gently pushing down the clamping lever until about half of the spike length is pushed in. (Fig. 16)

■ To ensure that the board is firmly positioned on the clamping table, push the pressure plate down from above with the free hand during the pressing process (Fig. 17)

■ Push the first board into each edge fastener in turn by pressing down the clamping lever right down to the stop.

■ Release the clamping lever, lift the device up vertically and remove the aid board.

■ For easier and more efficient laying – particularly for long boards – we recommend using another 1 or 2 *HARDY* or *JUSTY* fixing devices.

Fastening the 1st board with board fasteners



■ Position the board fasteners centrally on the SS and push under the board until the spikes touch.

■ Press the board with the free hand onto the board clamping table and knock the board fasteners in with the hammer (Fig. 18)

■ Fix the board fasteners with the TX countersunk screws so that both the board fasteners and the edge fasteners are firmly in contact with board 1. (Fig. 19)

Fastening the 2nd board with board fasteners



- Position the 2nd board to be laid on the SS.
- Align the board and position it against the board fasteners so that all spike tips touch the board. (Fig. 20)

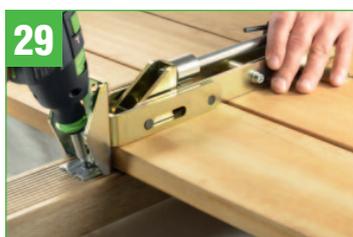
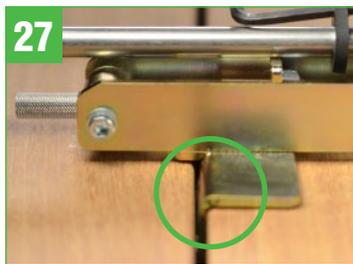


- Set the **HARDY** to 2 x board width + 10 mm.
- To prevent the board from shifting sideways, prefix the board by hammering it slightly onto a spike. (Fig. 21)

- Ensure that the board is firmly positioned on the clamping table when prefixing it.
- Position the opened device with the stop bracket on the boards.
- Position the pressure plate for the **UNI** edge fasteners centrally on the substructure.
- Ensure that the stop bracket is securely fastened behind the second board. (Fig. 27)
- Lay the pressure plate on the **UNI** edge fastener.
- Push the 2nd board into the board fasteners one by one by gently pushing down the clamping lever until about half of the spike length is pushed in.
- Then press the clamping levers in sequence down to the stop and press the 2nd board fully into the board fasteners. (Fig. 22)
- Ensure that the board is firmly positioned on the clamping table when pushing it in.

- Because of the varying wood species properties, various board widths may be delivered; it must therefore be ensured that the board fasteners are firmly in contact with the board on both sides (only readjust the laying device when in a released condition).
- Release the clamping lever and lift the device up vertically.
- For easier and more efficient laying – particularly for long boards – we recommend using another 1 or 2 **HARDY** or **JUSTY** fixing devices.
- Position further board fasteners centrally on the SS and push under the board until the spikes touch.
- Press the board with the free hand onto the clamping table and knock the board fasteners in with the hammer. (Fig. 23)
- Fix the board fasteners with the TX countersunk screws so that the board fasteners are firmly in contact on both sides.

Surface laying



- Changing the pressure **PLATE** to a pressure **HEAD** and adjusting the pressure **HEAD**. (Fig. 7-9)
- Lay the next board on the SS.
- Align the board and position it against the board fasteners so that all spike tips touch the board. (Fig. 24)
- To prevent the board from shifting sideways, prefix the board by hammering it slightly onto a previously fitted spike.
- Ensure that the board is firmly positioned on the clamping table when prefixing it. (Fig. 25)
- Position the remaining board fasteners centrally to the SS and push under the board until the spikes touch.
- Position the opened laying device with the stop bracket on the previously fastened boards.
- Positioning the pressure **HEAD** centrally on the SS.
- Insert the spike of the board fastener into the spike recess of the pressure **HEAD**. (Fig. 26)
- Ensure that the stop bracket is securely fastened behind the previously attached board. (Fig. 27)
- Ensure that each board is firmly positioned on the clamping table

- when pushing it in.
- Lightly press down the clamping lever to push the board into the previously fastened board fasteners and to push the unfastened board fasteners one by one until about half of the spike length is pushed in. (Fig. 28)
- Then press the clamping levers in sequence down to the stop; all fasteners will then be fully pushed in.
- Because of the varying wood species properties, various board widths may be delivered. It must therefore be ensured that the board fasteners are firmly in contact with the board on both sides (only readjust the laying device when in a released condition).
- Fix the board fasteners with the TX screws so that the board fasteners are firmly in contact on both sides. (Fig. 29)
- Release the clamping lever and lift the device up vertically.
- For easier and more efficient laying – particularly for long boards – we recommend using another 1 or 2 **HARDY** or **JUSTY** fixing devices. (Fig. 28)

Fastening the last board with **UNI** edge fasteners



- Lay the last board to be fitted on the SS.
- Align the board and position it against the board fasteners so that all spike tips touch the board. (Fig. 20)
- To prevent the board from slipping sideways, prefix the board by hammering it slightly onto a spike.
- Ensure that the board is firmly positioned on the clamping table when prefixing it. (Fig. 21)
- Position the edge fasteners centrally on the SS and push under the board until the spikes touch.
- Position the opened device with



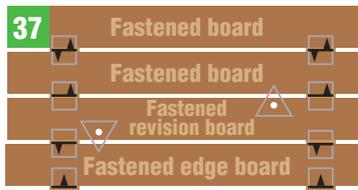
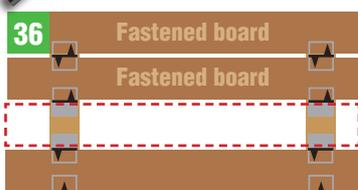
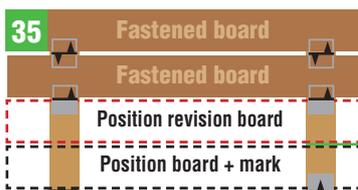
- the stop bracket on the previously fastened board.
- Positioning the pressure head centrally on the SS.
- Ensure that the stop bracket is securely fastened behind the previously attached board. (Fig. 27)
- Position the pressure head on the flat side of the respective edge fastener. (Fig. 30)
- Ensure that the board is firmly positioned on the clamping table when pushing it in.
- Lightly press down the clamping lever to push the board into the pre-



- viously fastened board fasteners and to push the unfastened edge fasteners one by one until about half of the spike length is pushed in. (Fig. 28)
- Then press the clamping levers in sequence down to the stop+ all fasteners will then be fully pushed in.
- Because of the varying wood species properties, various board widths may be delivered; it must therefore be ensured that the board fasteners are firmly in contact with the board on both sides (only readjust the laying device when in a released condition).

- Release the clamping lever and lift the device up vertically.
- Fasten the edge fasteners using TX panhead screws so that the board fasteners are firmly in contact on both sides. (Fig. 32)
- If wood species subject to significant splitting are used, it is recommended that the SS is pre-drilled at the end of the squared timber (pilot borehole diameter approx. 2 mm smaller than the screw diameter). (Fig. 31)
- For easier and more efficient laying – particularly for long boards – using another 1 or 2 **HARDY** or **JUSTY** fixing devices.

Fastening the last board with **EVO** edge fasteners



Third last fastener row revision fasteners



FLIP positions are schematic only! (view from below)

- Revision board in preparation
- Note joint distance
- Mark position of edge fasteners and fasten according to the manual

- Second last fastener row revision fasteners
- Fasten the last board already pushed into the edge fasteners

- Insert revision board
- Rotate FLIP elements from above through the joints until the fixing holes are visible – they are then locked!

- Install the second last board as a revision board.
- Set up the third last row of fasteners with revision fasteners. (Fig. 33)
- On the lower board side of the second last board, fasten **REIF ■ Wood-Link FLIP elements** according to the FLIP installation manual. Per frame 2 x FLIP – one pair of FLIP elements on each board end. (Fig. 34)
- Loosely lay the second last board on the board fasteners.
- Position the final board with a joint distance.
- **Important!** In order to provide sufficient play to insert the revision board, the last joint distance should be 5 mm+ max. 2 mm installation play!
- Mark the board edge on the SS with a pencil. (Fig. 35)
- Put the two boards to one side
- Fasten the edge fasteners flush

- with the marking.
- If wood species subject to significant splitting are used, it is recommended that the SS is pre-drilled at the end of the squared timber (pilot borehole diameter approx. 2 mm smaller than the screw diameter). (Fig. 35)
- Push the last board into the edge fasteners.
- Set up the second last row of fasteners with revision fasteners. Push the spikes into the last board and fix the revision fasteners with TX screws. (Fig. 36)
- Insert the second last board and rotate all the FLIP elements from above through the joint until the fixing holes are visible.
- The revision board is now locked in place. (Fig. 37)

Detailed working instructions can be found in the FLIP installation manual!

Symbol explanation (not to scale):



EVO Z2/A2



EVO A2R
Revision fastener



EVO A1
Edge fastener



FLIP

REIF WoodLink®

BEFESTIGUNGSSYSTEME



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