



Latest version of the installation manual  
at [www.stanzwerk-reif.de](http://www.stanzwerk-reif.de)

## IMPORTANT!

Thanks to your decision for the **REIF ■ DuraLink** aluminium system, you have decided to use a highly stable and well-conceived product.

The following installation manual summarises all you need to know about preparation, building the aluminium substructure and laying the decking boards. The basic requirement for a durable decking flooring is careful laying. The laying instructions of the board manufacturer must be complied with; e.g. particular attention must be paid to the correct wood moisture when laying wooden boards.

You must obtain information about this point from your 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.

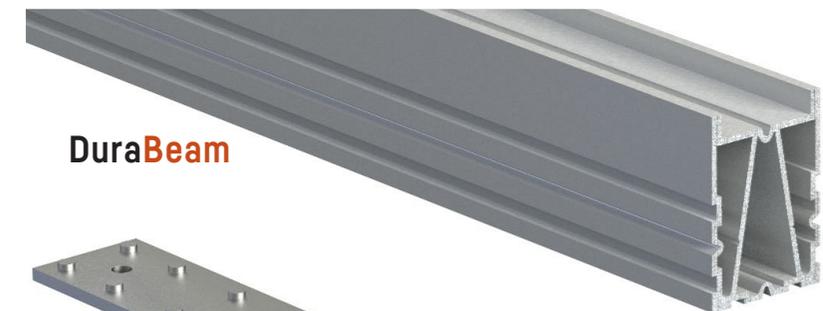
We wish you all the best during your installation and many years of pleasure in your new decking.

Your **REIF ■ DuraLink-Team**

# REIF **DuraLink**<sup>®</sup>

## BEFESTIGUNGSSYSTEME

### The components



**DuraBeam**



**DuraFix Z 180**



**DuraFix Z Vario**



**DuraFlip**



**DuraFix Z 90**



**DuraFix ZU**



**DuraFit**



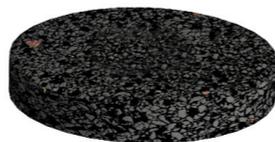
**DuraClip Z 2**



**DuraClip Z 1**



**DuraLift**  
with 5mm DuraPad



**DuraPad**  
5/10mm

### The tools

Moisture measuring device



- Moisture measuring device (optional)
- JUSTY fixing device (optional)

- Screwdriver
- Bit with extension

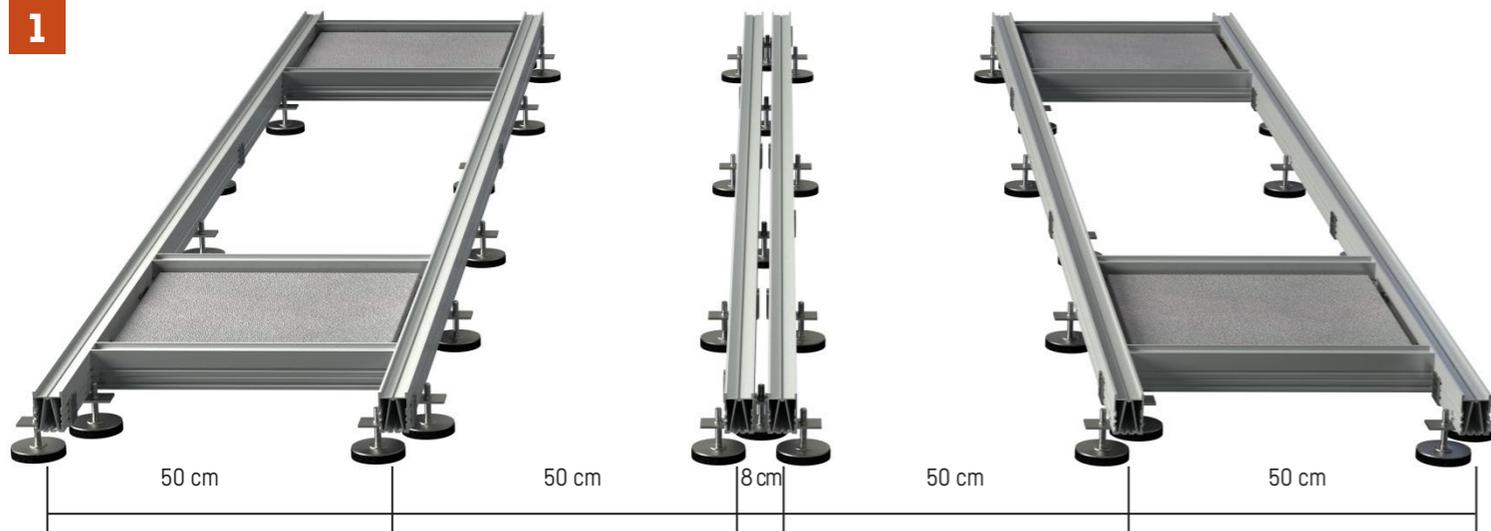
- Spirit level
- Hex bit (optional)

- Allen key
- Measuring stick
- Pencil

\* Figures depicting screws may differ.

## The preparation

1



2



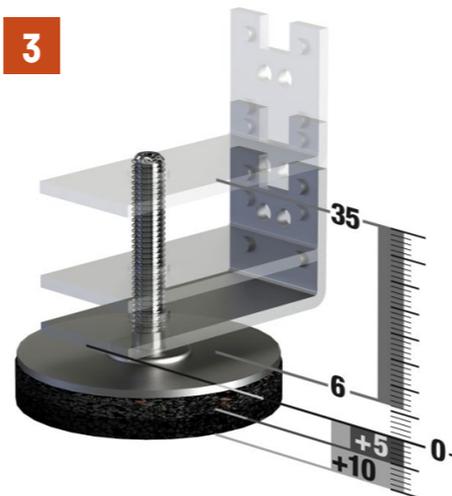
- Ensure prepared and solid substrate (crushed rock or concrete panels, etc.) is present.
- If objects with support structures (roof terraces, balconies, etc.) are involved, check the static loading capacity of the support structure.
- Comply in full with building regulations (railing heights, drainage courses, etc.).
- The pressure load of the building sealing and thermal insulation must

- not be exceeded! See the manufacturer instructions for the specific values.
- Centre distance between the individual DuraBeam SS profiles max. 50 cm [Fig. 1]
- When installing a butt joint, a DuraBeam SS profile is required for each board end. [Fig. 2]
- When laying wooden boards,

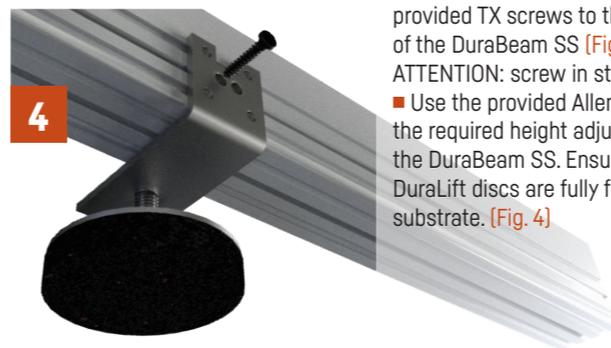
- a butt joint spacing of approx. 5 mm is recommended; when laying other decking flooring, please note the respective manufacturer instructions.
- According to experts, it is recommended that a slight gradient is produced when laying the decking to ensure that the rainwater can run off. To ensure that the SS are correctly aligned, we recommend the use of the DuraLift height adjustment device.

## Mounting the DuraLift height adjustment device

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- Adjustment height: 6-35 mm without, or max. 55 mm with two DuraPads; load-bearing up to approx. 500 kg / m<sup>2</sup> traffic load [Fig. 3]



- Use the TX screw provided to fasten the DuraLift to the lower side of the DuraBeam SS [Fig. 4]
- Fasten the DuraLift using the provided TX screws to the lower side of the DuraBeam SS [Fig. 4] ATTENTION: screw in straight!
- Use the provided Allen key to set the required height adjustment of the DuraBeam SS. Ensure that the DuraLift discs are fully flat on the substrate. [Fig. 4]

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- Mount the components on alternating sides of the DuraBeam SS at distances of max. 70 cm. To achieve the same traffic load with DuraBeam 3.0, position DuraLift alternately on the SS at distances of max. 40 cm.
- To increase stability in case of one-off loads (e.g. plant pots), it is recommended that DuraLift be mounted on both sides in pairs with an offset spacing of approx. 10 cm. [Fig. 5]
- When using DuraPad, after the DuraLift is mounted, the Pad must be glued flush with the metal disc. [Do not exceed the Pad height of max. 2 x 10 mm] ATTENTION: if necessary, remove any oil from the contact surface of the DuraPad before gluing it. [Fig. 6]

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Option for increased stability: Alternately attached DuraLift pair!

# DuraFix

## The installation

■ Centre distance from DuraLift to DuraLift alternately on the DuraBeam SS: max. 70 cm with DuraBeam 1.1 & 2.0, and at distances of max. 40 cm with DuraBeam 3.0.  
[Fig. 5 + 7]

Distance from DuraBeam SS to DuraBeam SS: max. 50 cm.  
[Fig. 1 + 7]

■ Two DuraBeam SS must be positioned at a distance of max. 12 cm under a butt joint. [Fig. 2 + 7]

■ To counteract material-dependent tensile forces, e.g. in polymer wood composites, the integration of a weight element in the decking corners – e.g. a concrete panel – is recommended [ballast system].  
[Fig. 7]

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**ATTENTION!** The data specified by the flooring manufacturer for the SS profile distances may be different and has priority, they must therefore be complied with.

## The "DuraLink principle"



**ATTENTION:** Screws\* must be screwed in straight!

**ATTENTION!** During fastening, check the correct tightening torque [max. 6 Nm] to avoid screwbreakage!

Just like the proven handyman rule: "Easy does it!"

\* Figures depicting screws may differ.

**This ensures the rapid, simple and stable installation of the REIF ■ DuraLink system:**

- The fixing knobs on the DuraFix connection element **correspond** with the mounting holes in the DuraBeam SS
- The fixing knobs mean that **precise positioning** of the DuraBeam SS is ensured

- Just 2 screws will form a positive lock so that the shear force is **uniformly distributed** across all 8 fixing knobs
- The screw groove ensures **precise centring** of the screw
- The design of the screw groove enables rapid and almost **chip-free fixing**



## The "DuraLink principle": flexible, modular, versatile!



DuraBeam profile extensions with DuraFix Z 180 (view from side)



Parallel mounted DuraBeam substructures (board butt joint) fastened by the DuraFix Z 180 (view from below)



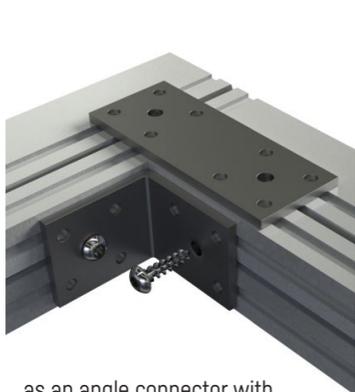
Maximum stability with doubled-up DuraBeam profiles



To use with special shapes: DuraFix Vario



... DuraFix Z 90 angle connector in area of decking corners for all types of ballast systems



... as an angle connector with the Z 180 as reinforcement



...as a holder for facings of all types



...or as spacer

Figures depicting screws may differ.

# DuraClip

## Setting the "JUSTY"



- The board groove thickness and the DuraClip groove dimensions must match for rapid and problem-free laying of the boards. A DuraClip board fastener version is also available to simplify installation; a flexible clamp self-locks the fastener to hold it in place in the installation position on the DuraBeam SS.



- Please note, once again: the basic requirement for a durable decking flooring is careful laying. The laying instructions of the board manufacturer must be complied with; e.g. particular attention must be paid to the correct wood moisture when laying wooden boards. You must obtain information about this point from your retailer.

- Note the correct board properties (e.g. sapwood, cracks, resin bleed, etc.) and comply with the laying direction specified by the board manufacturer, where applicable.

- When installing butt joints, each board end should be fastened with a DuraClip. (Fig. 8)

- It is recommended, dependent on the wood, to maintain a butt joint spacing of approx. 5 mm. Comply with the manufacturer instructions in the case of other decking floorings.

- When using the laying and fixing

device Justy<sup>®</sup> measure the board width and adjust the device as shown below while closed: (Fig. 9)

- Implement the setting manually by rotating the pressure plate
  - Release the spindle lock
  - Set the clamping range by rotating the pressure plate (1 rotation = 2.0 mm)
  - Lock the setting with the spindle lock

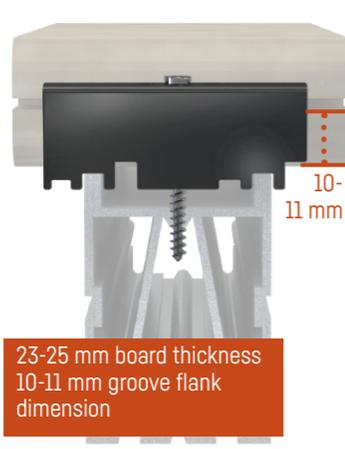


## Laying the first and last boards with DuraClip Z1 edge fasteners



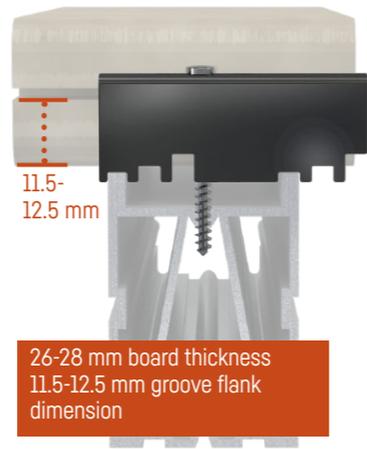
19-22 mm board thickness  
8-9.5 mm groove flank dimension

- Lay the 1st board at a 90° angle to the DuraBeam SS.
- Insert the DuraClip Z1 into the board groove so that a.) the height positioning recess is lying on the DuraBeam SS and, at the same time, b.) the longitudinal flank of the DuraClip Z1 runs parallel to the board side
- After positioning the DuraClip Z1



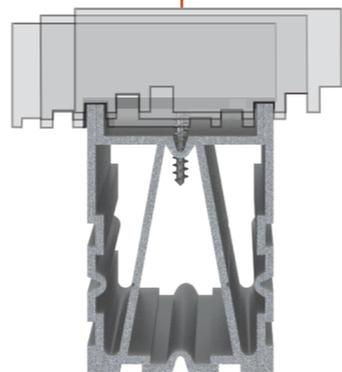
23-25 mm board thickness  
10-11 mm groove flank dimension

- as described in a.) and b.), insert the screw in the screw hole positioned vertically above the V-screw groove.
- Tighten the screw with max. 6 Nm.



26-28 mm board thickness  
11.5-12.5 mm groove flank dimension

The groove flank dimension is important for the positioning of the DuraClip Z1. The stepped design of the recesses ensure a stable fit for the groove flank dimensions shown here!



**IMPORTANT!** The TX screw must be positioned vertically above the screw groove of the DuraBeam SS!

## Fastening the 2nd board with DuraClip Z2 and surface laying



- Position the DuraClip Z2 centred on the DuraBeam SS and push into the appropriate board groove of the 1st board until the joint distance lug touches the board. (Fig. 10)



- Position the 2nd board on the DuraBeam SS and align the board flush. (Fig. 11)
- Push the board into the previously inserted DuraClip Z2 until the joint distance lug touches both boards
- Fasten the DuraClip Z2 with the provided TX screw and a tightening torque of max. 6 Nm.



- When prefixing long boards in particular, we recommend using the REIF laying and fixing device JUSTY.
- Lay the device on a previously fastened board. (Fig. 12)
- Position the stop bracket and the pressure plate longitudinally to the DuraBeam SS. (Fig. 12)
- Ensure that the stop bracket is securely fastened behind the previously fastened board. (Fig. 12)
- Prefix the board by pressing down the clamping lever until the joint distance lug lies on the board edges.



- Fasten the DuraClip Z2, using a TX screw, to the DuraBeam SS. (Fig. 13)
- Tighten the screw with max. 6 Nm
- Release the clamping lever and lift the device up vertically.

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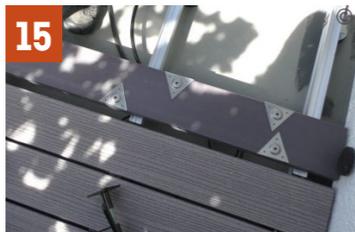
13

# DuraFlip

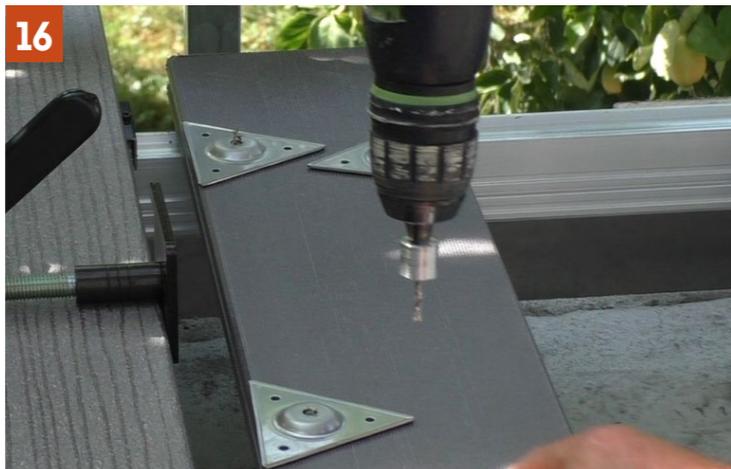
## Installation of a revision board



- Set up the last board-fastening row before the revision board with DuraClip Z1 (Fig. 14)
- Lay the revision board with the visible side facing down on the SS and align it along its length (Fig. 15)
- Use 1 DuraFlip on each board side for each SS intermediate space (Fig. 15)
- Use two 2 DuraFlips at each board end (Fig. 15)
- DuraFlip fasteners must be laid with one side parallel and flush with the board edge; ensure that the dome faces upwards (Fig. 16)
- Fasten the DuraFlip with a TX



- For wood species subject to significant splitting and polymer-wood composites, we recommend predrilling the revision board (pilot borehole diameter approx. 2 mm smaller than the screw diameter) (Fig. 16)
- **Attention:** do not drill through
- Before inserting the revision board, rotate the DuraFlip so that one of the sight holes is visible. (Fig. 17)
- Firmly position the revision board next to the previously fastened board by pushing DuraFlip tips under it



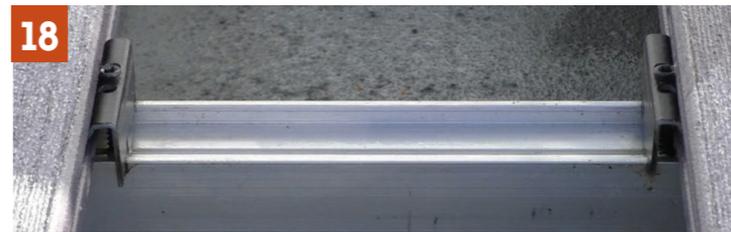
- Set up the first board-fastening row for the next board with DuraClip Z1. (Fig. 18)
- Ensure a visually uniform joint pattern.



## Unlocking and removing the revision board, or inserting and locking it in place



- Insert a metal chisel through the joint to turn the DuraFlip until one side of the DuraFlip runs parallel with the edge of the board. (Fig. 19)
- Be careful not to damage the board edges
- The board can now be removed. (Fig. 20)



### Inserting and locking in place

- Position the DuraFlip with every DuraFlip tip protruding approx. 3 mm beyond the board edge. (Fig. 21)
- Insert the revision board so that it can be sunk in place evenly with both sides
- When inserting the revision board, ensure that the protruding DuraFlip tips do not damage the already fastened boards.



- Insert a metal chisel through the joint to turn the DuraFlip until one sight hole is visible in the joint. (Fig. 19 + 22)
- The board is now locked in place. (Fig. 22)



# REIF **DuraLink**<sup>®</sup>

Great versatility of use...

## BEFESTIGUNGSSYSTEME



Profile extension



Variable angle connector



Angle connector



Load pick-up



Veneer fixing



Angle reinforcement



# Great versatility of use...



Double SS on butt joint



Revision element



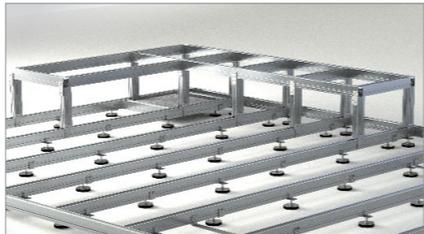
Flexible board clip



Flexible edge fastener



SS - Height adjustment



Into the third dimension without difficulty

...few parts!



# ...few parts!

