

Installation Instructions

Fallnet® SR Rail

When used in conjunction with a superimposed load from a suitable bulk material (e.g. substrate or gravel), the Fallnet® SR Rail stands as a fixing device, in accordance with EN 795, to form a safety device on flat roofs up to 5 degrees. A fixing point (the so-called runner) may only be used by one person (up to 100 kg) at a time and this person should be wearing personal protective equipment (PPE, e.g. ZinCo-PPE-Set) in accordance with EN 363.

The safety harness, in accordance with EN 361, can only be used in conjunction with tested and approved components.

Important Notice:

We expressly advise that ZinCo will, irrespective of the product liability, only take consultancy liability in cases where the installation has been undertaken in accordance with our design. Any installations undertaken without ZinCo planning are done at the installer's own risk. The installation instructions and the instructions for use, both of which are delivered with the products, are to be consulted in every case.

Tools required:

- Wrench/ratchet size 17.0
- Allen or allen key size 6.0

1.0 Before the installation

1.1 Checking the Delivery and Condition of System Components

The delivery of an object-specific configured Fallnet® SR Rail safety device comprises:

- Fallnet SR Rail components, e.g. grid elements, rail support, rails, connectors, runners, etc. The required amounts and characteristics of the individual components can be found on the delivery note.
- Documents included with the delivery of each order:
Installation and user instructions, control card, in some cases a map (if ZinCo GmbH is in charge of the planning) that the builders are to hand out.

Note:

Incomplete deliveries or deliveries with broken parts are to be reported immediately.

1.2 Test of the Initial Situation

Before commencing the installation, the following checks are to be made: the roof construction has sufficient dimensions for its future burden; the waterproofing and where necessary the root protection are present; and the actual substrate (see below) for the Fallnet® SR Rail has been professionally and flatly laid. Any doubts are to be expressed, and where necessary corrected, before the installation.

⇒ **Important:** There must be direct contact with the superimposed load (bulk material) at all times! The two laying methods that are described below are permitted for the installation of the Fallnet® SR Rail :

A. In the case of multi-layer constructions: over the drainage elements with filter

→ In case of a multi-layer construction, the Fallnet® SR Rail should be positioned over the drainage (elements, bulk weight) and the related system filter.

B. In the case of one-layer constructions: over a protection mat (> 300 g/m²),

if the superimposed load is to be carried across using gravel or a single layer extensive green roof.

2.0 Instructions for Laying

2.1 Measuring and Positioning the Rail Supports

The positioning of the rail supports is to be measured using a map of the roof. The spacing between the single rail supports must not exceed 3 m. The rail support's base plates must lie flat, straight and on a clean and suitable (see 1.2) substrate. We recommend that you let the ZinCo technical department plan or check the requirement and location plans.

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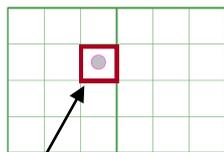
Fallnet® SR Rail

2.2 Creating the Friction-locked Connection between the Rail Supports and the Grid Segments

First, place the 1.00 x 1.33 m, preassembled grid segment with the

colour-marked piece (brown element) and positioning device over the rail support and lock it using your foot. Lay the other grid segments so that the rail support is in the centre of the grid surface.

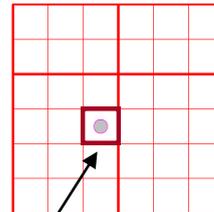
Together, the preassembled grid segments produce a plate (middle grid element 1.33 x 2.00 m, start- and stop grid element 2.00 x 2.00 m).



Use in:

- Extension Unit 2
- Extension Unit 3
- Corner Unit 3

Rail Support



Use in:

- Base Unit 3
- T-Unit 3
- Cross Unit 3

Rail Support

Middle grid element: 1,33 x 2,00 m:

The related rail support come with one hexagon screw to attach the alu rails.

Start-/end grid element: 2,0 x 2,0 m:

The related rail support come with two hexagon screws to attach the alu rails.

By relocating the individual grid elements, any rising components, ventilation shafts or outlets can be well integrated.

Attention should be paid to the position of the anchorage point; it is not to be situated within the outermost row of grid elements.

Furthermore the anchorage point is to be placed centrally within one of the grid elements (0.33 m x 0.33 m).



The rail support base plate must lie flat and all grid connection points must be locked down. If necessary, locked elements can be detached using gently a hammer.

⇒ Any defective parts must be exchanged.

2.3 Connecting the Rails

- The rails are connected to the rail support by mounting the hexagon screw(s) in the T-slot of the alu-rails.
- The rail section is lengthened using connectors. Do not attach the self-locking nuts yet. Max. gap: 5 mm.
- Insert the gliding fixing point (runner) in the rail.
- Screw on the end pieces of a rail track; the maximum distance to the last rail support is 0.25 m

- Check the positioning with the plans and correct if necessary.
- Now tighten all screws (on the rail supports and connectors).
- The temperature of the materials should not be less than +5°C during the installation.
- Whenever using stainless steel screws please apply some graphite or copper paste onto the threads. High pressure and friction might otherwise damage the surfaces so badly that the screws seize up.

2.4 Applying the Necessary Superimposed Load

Fallnet® SR Rail must be filled with a suitable bulk material and covered. It is possible to use Zincolit® or ZinCo System Substrate, gravel or a comparable bulk material. For reasons of UV protection the elements needs to be covered by a gravel strip of a height of at least 50 mm (above the upper edge of the element).

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Life on Roofs



Installation Instructions

Fallnet[®] SR Rail

Necessary Superimposed Load (Dry Weight) for the Fallnet[®] SR Rail

Roof pitch in the direction of gutter/drop edge	
up to 2 degrees	2 to 5 degrees
minimum 90 kg/m ² *	minimum 110 kg/m ² *

* These values apply for the dry state.

3.0 Competition, Labelling

Ensure that you are confident that all of the work has been carried out correctly and that the labelling is going to remain visible. Only labelled fixing points may be used.

3.1 Passing the Fallnet[®] SR Rail

Documents on to the Builder/Owner

The following documents are enclosed in the delivery and should be handed out to the builders:

- Installation and user instructions.
- Control card. Fallnet[®] SR Rail must be regularly maintained and checked.
- and, if necessary a map, if ZinCo GmbH is in charge of the planning.

3.2 Questions

If you have any questions, if you are unsure of the regular assembly of the product, or if you require further, more detailed information for your specific case then please contact the ZinCo technical department, via
Phone +44 1993 229 700

