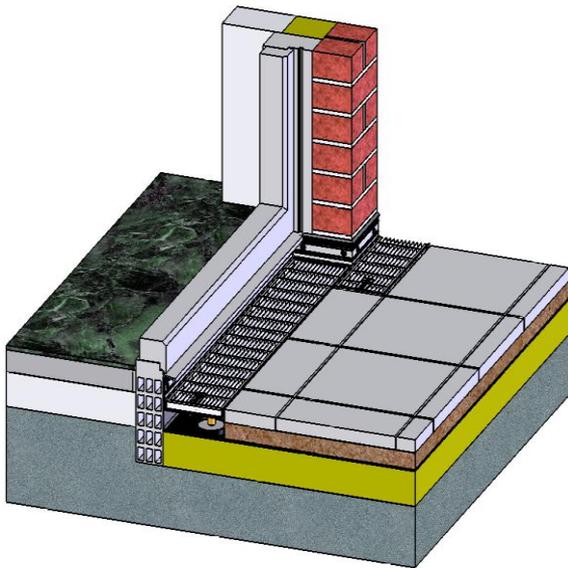




Für gutes Wetter im Bau.

Fitting instructions for all

SitaDrain® Klassik, SitaDrain® Terra, SitaDrain® Endlos
and SitaDrain® Box drain



Fitting instruction

Contents

1. SitaDrain® Klassik/ SitaDrain® Terra	4
2. SitaDrain® Endlos	6
3.1 SitaDrain® Box drain	7
3.2 SitaDrain® Box drain in association	8
3.3 SitaDrain® Box drain head end.....	9
3.4 SitaDrain® Box drain height adjustment set	10

Fitting instruction

General instructions

When installing flat roof drainage elements, the following regulations, amongst others, must be observed:

DIN EN 12056-3, DIN 1986-100, DIN 1986-3, DIN 18195, flat roof guidelines

Some important points of these systems of rules are listed below:

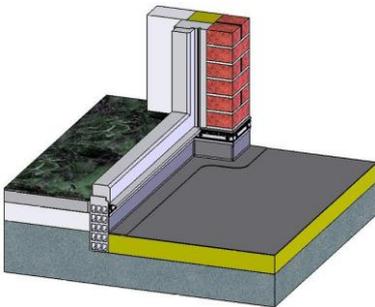
- Terraces and balconies are to produce constructively with a gradient of at least 2%.
- It is important to ensure that in an internal drainage, the drainage areas of different drainage layers lie on top of each other and are freely accessible. (The roof drain is to lead up to top edge of the pavement.)
- The minimum slope of the floor surface is material dependent and must be between 1% and 3%.
- Connections and endings of rising components should be up to a slope of 5 ° for at least 15 cm above the surface covering. With a roof slope of more than 5 ° at least 10 cm. In snowy areas, possibly a bigger connection height is required.
- A reduction of the connecting height in the door area to 5 cm is permissible if in the door area a perfect water flow is ensured at all times. This is the case when there are in the immediate door area for example a trough-shaped drainage grating with a direct connection to the drainage is installed
- Barrier-free transitions in the door area are special structures and require additional measures.
- According to the FLL (Forschungsgesellschaft-Landschaftsentwicklung-Landschaftsbau e.V.; a German research association for landscape development and landscaping), recommendations for planning and construction of used areas on buildings are the following functional layers defined:

Fitting instruction

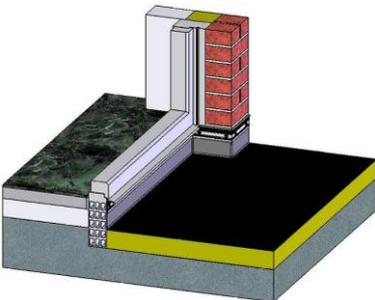
Surface Layer, bedding / leveling course, base course, filter layer, drainage layer, filter layer, thermal insulation, separating / sliding layer, sealing.

Depending on the design individual layers are not required.

1. SitaDrain® Klassik/ SitaDrain® Terra

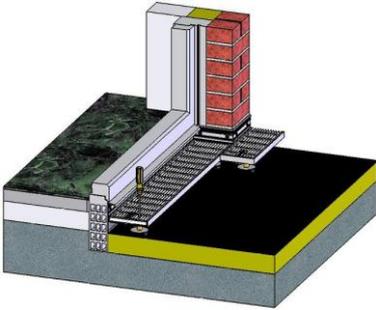


Sealed roof terrace.

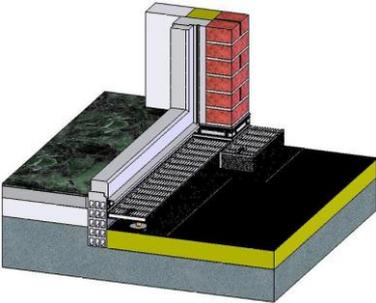


On the sealing needs to be an applied protective layer.

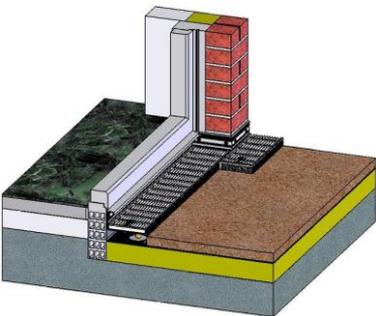
Fitting instruction



Place the SitaDrain® on the protective layer. The height adjustment takes place via the rubber feet by using a screwdriver from above.

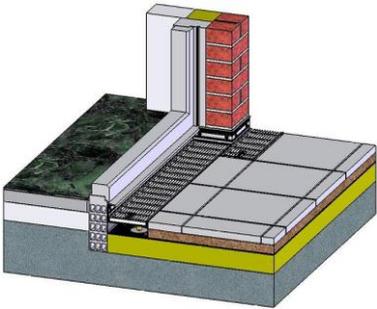


In order to prevent the intrusion of loose bulk below the SitaDrain®, the SitaDrain® gravel strip is to be placed before or in the elements of the SitaDrain® framework.



Raise a loose filling and consolidate slightly.

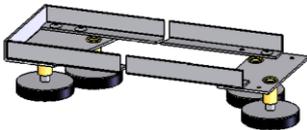
Fitting instruction



Raise the paving onto the loose filling and apply and finish it up to the SitaDrain®.

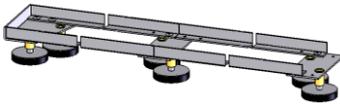
2. SitaDrain® Endlos

2.1



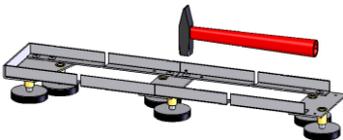
Set the SitaDrain® Endlos initial part with the rubber pads up onto the roof surface.

2.2



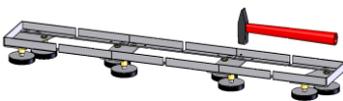
Lay the angle iron from the SitaDrain® Endlos connecting segment (or end segment) on the connection plate of the initial segment. Lead the enclosed hammer rivets from the top through the holes of the angle iron and the connecting plate.

2.3



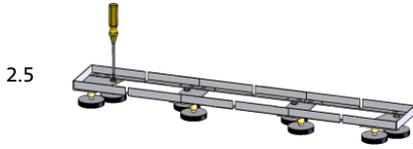
Hammer down the high stainless steel mandrel of the hammer rivet with a hammer blow. Other connecting segments (see section 2.1, 2.2) can be riveted to the connecting segment.

2.4



Lay the SitaDrain® Endlos end segment on the connection plate of the connection segment (or initial segment). Repeat the connection of the two components as described in section 2.2 and 2.3.

Fitting instruction

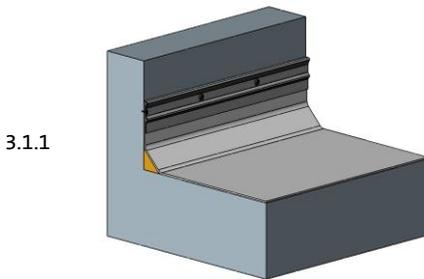


The height of the SitaDrain® Endlos can be adjusted to the desired height by the rubber feet with a screwdriver from above.

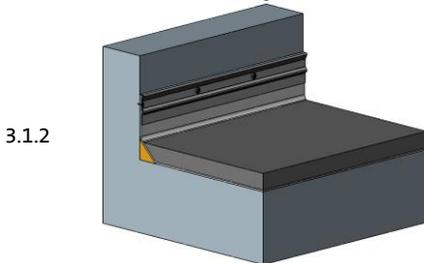


The top grating can be placed into the angle iron.

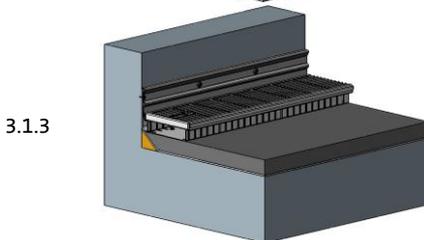
3.1 SitaDrain® Box drain



Sealed roof construction.



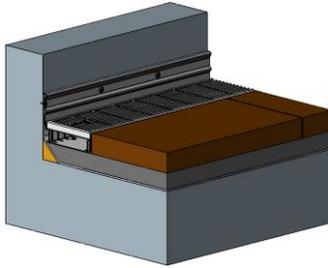
On the sealed roof construction the layer structure needs to be applied.



Set up the SitaDrain® Box drain in front of the rising walls of the solidified layer structure.

Fitting instruction

3.1.4



Put the paving on the surface layer structure and apply and finish the fitting up to the SitaDrain® Box drain.

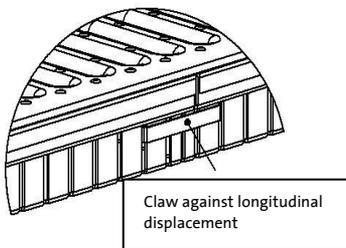
3.2 SitaDrain® Box drain in association

3.2.1



Place the drainage channel of the SitaDrain® Box drain, with inserted SitaDrain® Box drain head ends, on the roof construction.

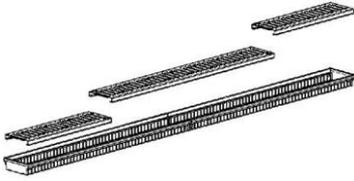
3.2.2



Connect the drainage channel with the enclosed fixing claws to prevent a longitudinal displacement.

3.2.3

Fitting instruction

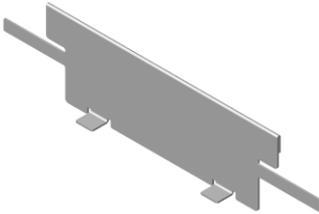


By delayed insertion of the SitaDrain® Box drain top grating in line drainage, a lateral displacement of the drainage channel is prevented.



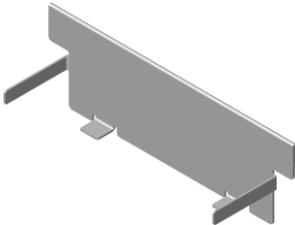
3.3 SitaDrain® Box drain head end

3.3.1



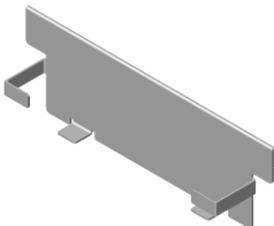
SitaDrain® Box drain head end in delivery condition.

3.3.2



Fold the legs of the head end by 90 degrees.

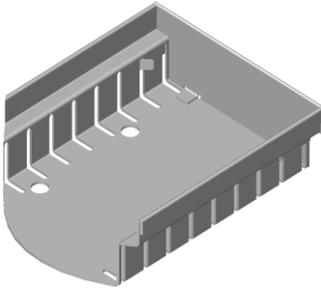
3.3.3



Hold the SitaDrain® box drain head end on the channel body. Define the position for the second edging and fold it again by 90 degrees. After the second edging fold the first edge slightly back to enable an insertion of the head end into the SitaDrain® Box drain .

Fitting instruction

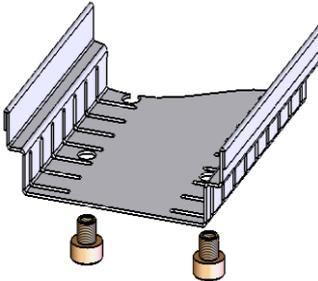
3.3.4



After inserting the SitaDrain® Box drain head end, press the inside standing leg firmly onto the drainage channel.

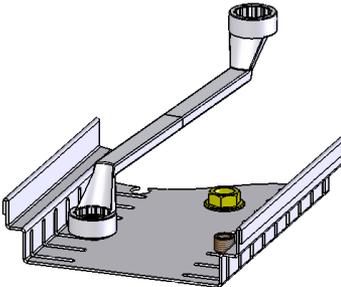
3.4 SitaDrain® Box drain height adjustment set

3.4.1



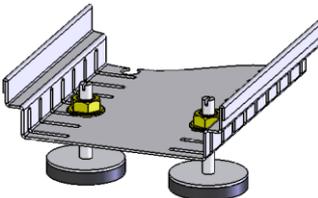
Insert the brass grommets in each of the outer holes of the SitaDrain® Box drain from the bottom.

3.4.2



Turn up the lock nuts on the brass grommets and tighten them with a wrench.

3.4.3



Screw the rubber feet from the bottom into the brass grommets and adjust them to the desired height.

Fitting instruction

Fitting instruction

Notes:



Für gutes Wetter im Bau.

Sita Bauelemente GmbH

Ferdinand-Braun-Straße 1

D-33378 Rheda-Wiedenbrück

Phone +49 (0) 2522-8340-0 ◦ Fax +49 (0) 2522-8340-100

E-Mail: info@sita-bauelemente.de ◦ www.sita-bauelemente.com



Valid: 06.2011

Subject to technical changes, even without notice.