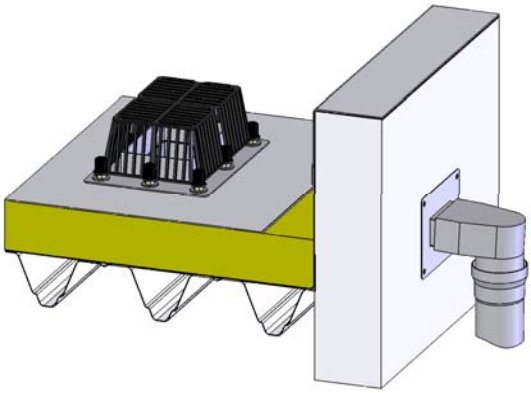
Für gutes Wetter im Bau.

Fitting instructions for all

SitaAttika roof outlets and accessoires



Contents

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 18531, DIN 18195,
DIN 18234, flat roof guidelines

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

- Roof outlets are to be fitted at the lowest point of a roof.
- In the case of steel trapeze profile substructures, penetrations are to be reinforced by a strengthening sheet.
- The basic body is to be joined with the substructure.
- A skewing of the extension unit through relative movements of the roof construction must be prevented (e.g. through mechanical fixing of the unit).
- The flanges of the roof outlets and extension units are to be installed
- Roof outlets must be freely accessible for maintenance purposes.
- Roof outlets and the connected pipelines have to be protected against "sweating", where appropriate, with e.g. aluminium-coated rock wool.
- In the case of waterproofing seals of only one layer and/or loosely laid, then screw-on flange joints must be installed with permanently compatible material of the same type as the waterproofing (or a suitable elastomer) fitted on both sides.
- The bolts of screwed-on-flange joints must be checked and tightened at least three times during the course of the fitting work, using a torque wrench.
- Roof outlets have to be serviced at least twice per year.

1. SitaTurbo - Facade breakthrough

The position of the breakthrough (ø 170 mm) through the facade / parapet is dependent on the placement of the SitaTurbo Attica outlet and is determined as follows:

a) Determine the distance x from facade leading edge to drain pipe leading edge

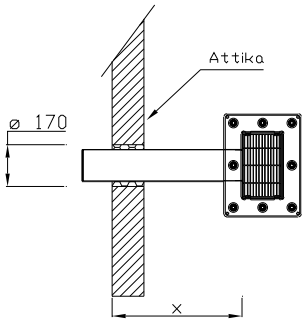
b) Find the value in the chart and read off the corresponding height y.

The height y is the center of the breakthrough (diameter 170 mm) and is measured from the top edge of thermal insulation.

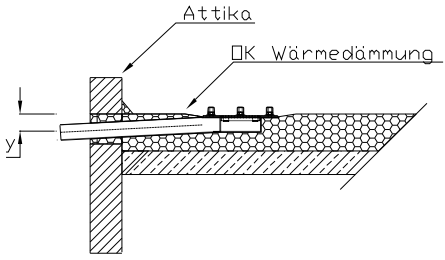
Example:

The distance x to the facade front edge is 500 mm.

Thus the height y of the breakthrough is 60 mm.



Draufsicht

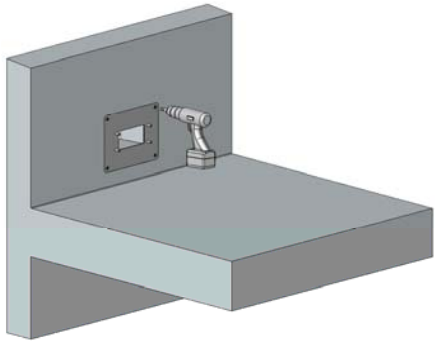


Seitenansicht

Distance x [mm]	100	200	300	400	500	600	700	800	900
Height y [mm]	39	44	49	54	60	65	70	75	81

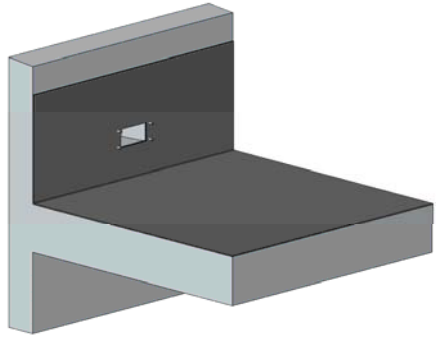
2. SitaTurbo Steam vapour barrier plate

2.1



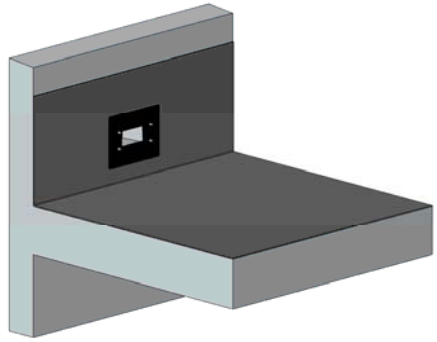
Secure the thrust-flange of the SitaTurbo Steam vapour barrier plate rigidly in front of the provided recess on the attic.

2.2



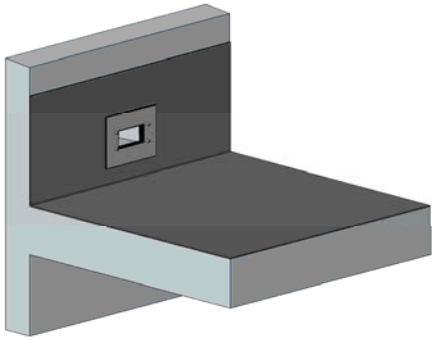
Define the position of the steam vapour barrier plate in the the vapour barrier. Punch out the hole pattern with a punch and postpone the vapour barrier over the steam vapour barrier plate up to the thrust-flange. Cut out the vapour barrier inside of the thrust-flange.

2.3



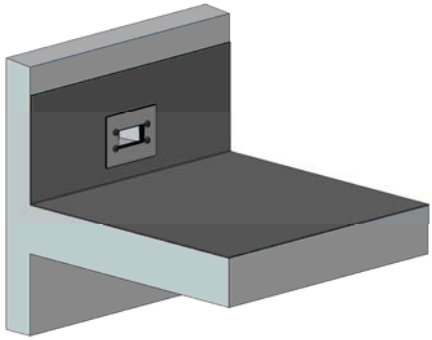
Postpone the connection sleeve over the threaded pins up to the vapour barrier.

2.4



Postpone the loose-flange over the threaded pins up to the connection sleeve.

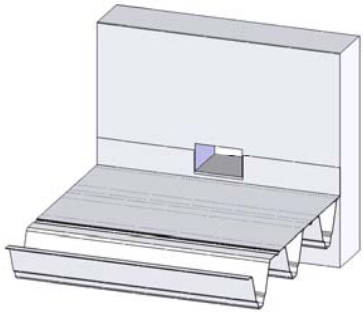
2.5



Set the spring rings and hex nuts on the threaded pins and tighten the nuts diagonally (max. torque 8 Nm).

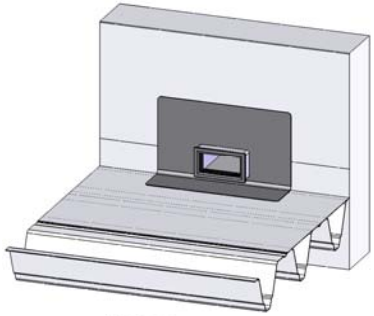
3. SitaTurbo Steam vapour barrier flex

3.1



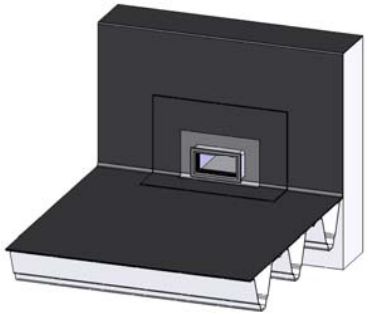
Roof construction with identified recess in the parapet.

3.2



Mount the SitaTurbo Steam vapour barrier flex in front of the parapet recess.

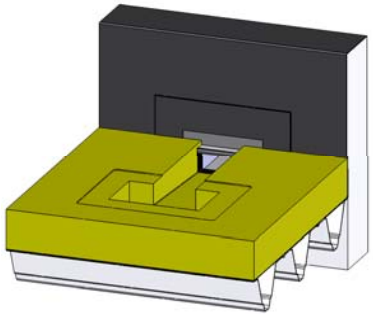
3.3



Define the position of the steam vapour barrier plate in the vapour barrier and cut out in such way that the vapour barrier can be connected vapour-tight to the vapour barrier plate adhesive flange.

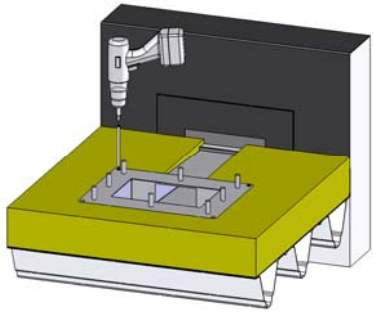
4. SitaTurbo Attika outlet

4.1



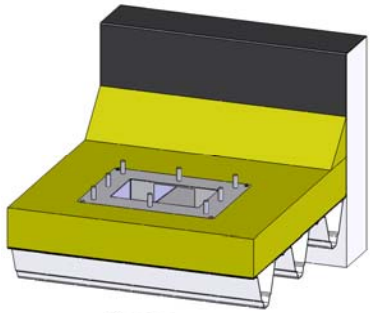
Cut out the contour of the SitaTurbo Attica outlet from the insulation.
Place the thermal insulation onto the vapour barrier.

4.2



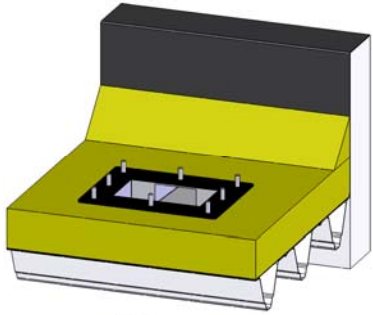
Grease the sealing of the steam vapour barrier plate and the pipe end of the SitaTurbo with lubricate.
Push the rectangular pipe through the sealing and insert the SitaTurbo in the defined position in the flat roof construction and fix it mechanically.

4.3



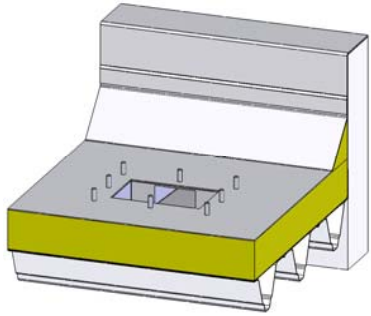
Apply to the rectangular pipe a wedge-shaped part of the cutted thermal insulation and adjust so that a flat surface is formed.
(If necessary, an insulation wedge can be applied)

4.4



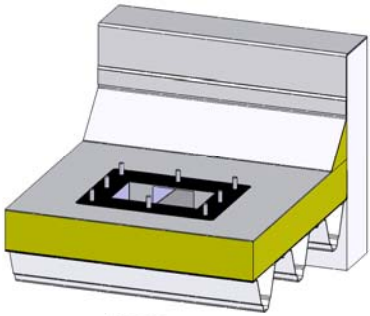
Set up the large rubber sealing sleeve over the threaded pins on the thrust-flange of the SitaTurbo.
In case of a bituminous sealing the rubber sealing sleeve is not required.
Grease the thrust-flange with bituminous primer and weld the bituminous track (tracks) on the roof structure.

4.5



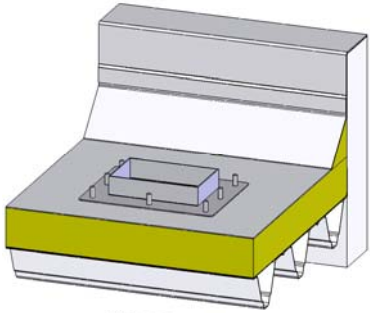
Determine the position of the SitaTurbo in the roof track. Use The loose-flange as template for the hole pattern of the threaded pins of the SitaTurbo. Mark the hole pattern and punch it out with a punch (ø13). Pull The roofing track (tracks) over the threaded pins and lay them on the rubber sealing sleeve. Cut out the roofing track inside the inlet pot. A seam overlap in the flange area is not allowed.

4.6



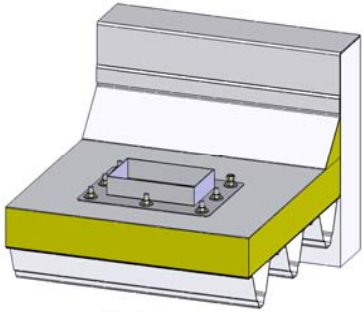
Lay the small rubber sealing sleeve over the threaded pins on the roof track.
In case of a bituminous seal a sealing sleeve is not applicable.

4.7



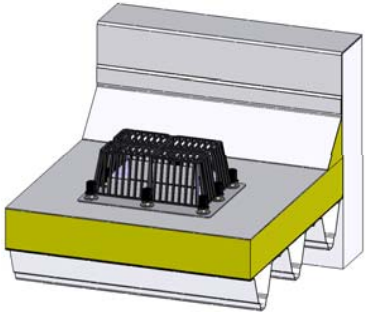
Heat the roof track and lay the loose-flange over the threaded pins on the small sealing sleeve.

4.8



Lay the washers over the threaded pins on the loose-flange. Put the nuts on and tighten them diagonally and alternately with a torque of max. 30 Nm. According to DIN 18195 is a loose-thrust-flange construction at least three times to be controlled and tighten up in a timing of > 24 hours.

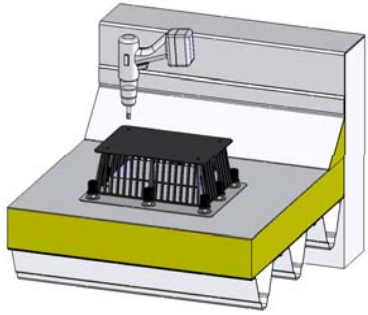
4.9



Lay the dome grate over the threaded pins on the nuts. Lay washers and nuts up and tighten them tangible. Press the caps on the nuts.

5. SitaTurbo cover plate

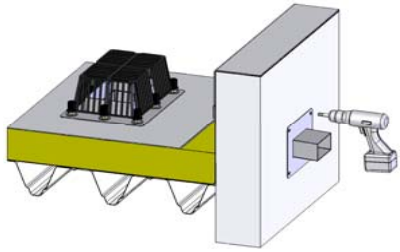
5.1



Lay the cover plate on the dome grate and align them that the holes of the cover plate are laying directly above the holes of the dome grate. Mount the cover plate with the enclosed screws.

6. SitaTurbo cladding-cover-plate

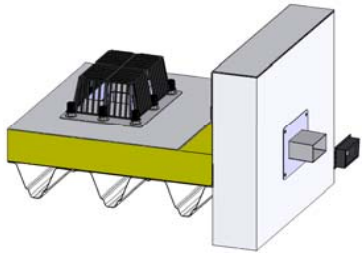
6.1



Place the cladding-cover plate over the out of the facade standing rectangular pipe of the SitaTurbo and fix it mechanically.

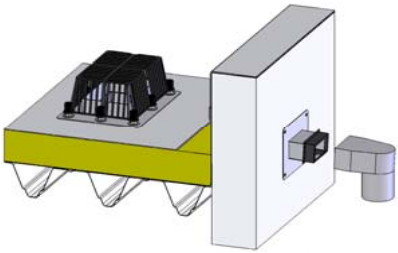
7. SitaTurbo outlet transition piece

7.1



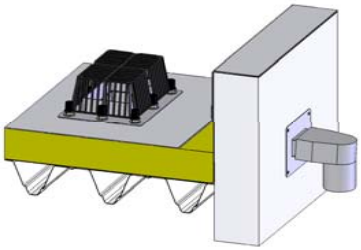
Place the lamellar sealing of the SitaTurbo outlet transition piece on the pipe end of the rectangular pipe and postpone it so much, that the stainless steel pipe lays in the three-sided U-profile. It is important to ensure that the page without U-profile is directed downwards.

7.2

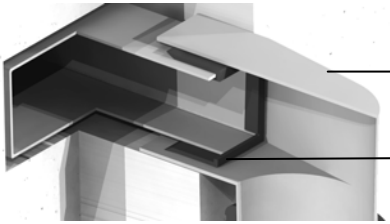


Grease the lamellar sealing from the outside and the stainless steel transition piece from the inside with lubricant.

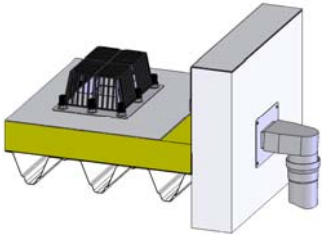
7.3



Postpone the transition piece over the lamellar sealing so much that the protruding lamellar lays from all sites in the transition piece.
(See following detail).



7.4

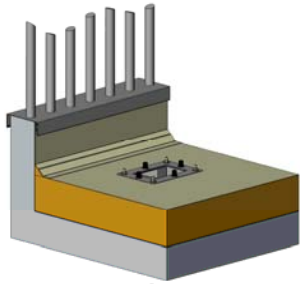


Postpone the on the facade mounted coupler downpipe on the transition piece.

In case of to be connected zinc downpipe, the adapter to zinc pipe can be used between the downpipe and the transition piece.

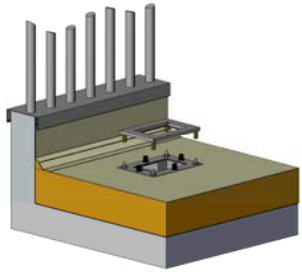
8. SitaTurbo Terrace installation kit

8.1



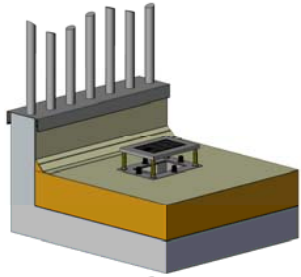
The protective caps over the nuts put on respective central or respectively remove the outer protective caps.

8.2



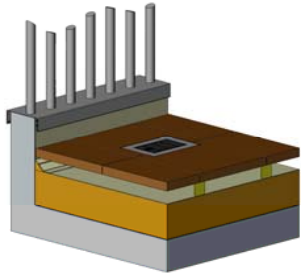
Place the SitaTurbo terrace installation kit with the four brass bushings on the four remaining threaded pins and adjust them to the desired height.

8.3



On terrace floorings above 93 mm the terrace installation kit adapter for extension have to be screwed in between the frame of the terrace installation kit and the brass baushings.

8.4



Insert the grid into the terrace installation kit frame. The terrace flooring can be fitted to the terrace installation kit.

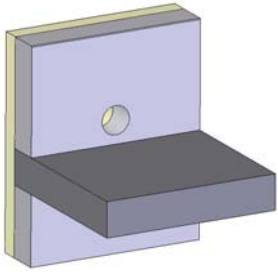
9. Sita Steam vapour barrier Flex with round pipe

Breakthrough dimension of an insulated parapet

	Facade breakthrough
SitaAttika outlet with round pipe DN 50	ca. ø 100 mm
SitaAttika outlet with round pipe DN 70	ca. ø 125 mm
SitaAttika outlet with round pipe DN 100	ca. ø 150 mm

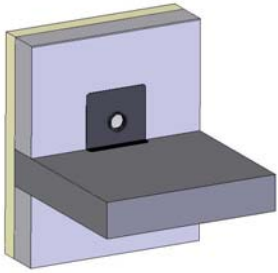
The resulting air gap has to be full filled after the installation with a suitable material such as thermal insulation or similar.

9.1



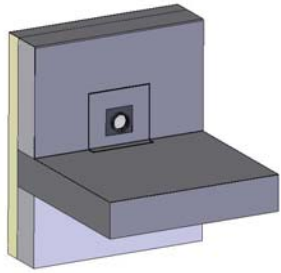
Parapet with facade breakthrough.

9.2



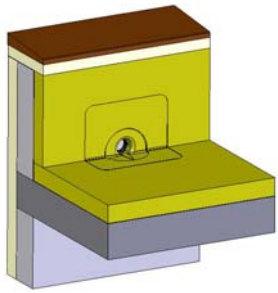
Mount the SitaSteam vapour barrier flex centrically on the facade breakthrough.

9.3



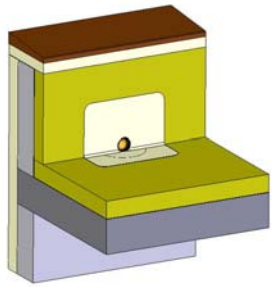
Glue the vapour barrier on the adhesive flange of the flexible steam vapour barrier.
In case of a bituminous vapour barrier a flexible steam vapour barrier with elastomeric bitumen needs to be connected.

9.4



Cut out the contour of to be incorporated component from the thermal insulation and apply it to the roof area as well as the parapet.

9.5



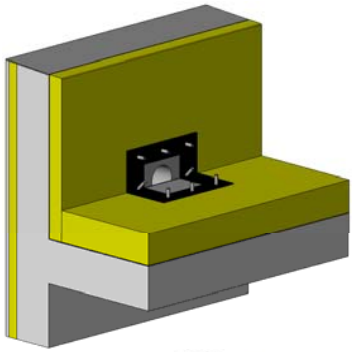
Grease the lamellar of the steam vapour barrier flex as well as the pipe of the component with lubricate. Push the pipe through the lamellar of the steam vapour barrier flex and insert the component to the determined position into the flat roof construction. The component needs to be fixed mechanically.

10. SitaRondo base plate

The SitaRondo base plate needs to be mounted in the same way like the SitaTurbo Steam vapour barrier plate.

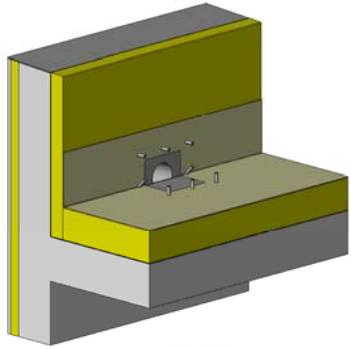
11. SitaRondo

11.1



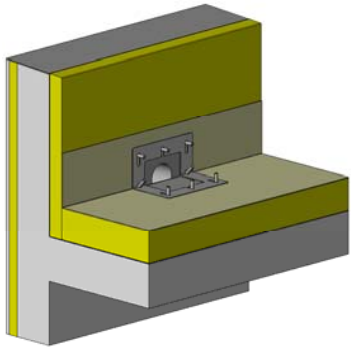
Put the Sita rubber sealing sleeve large over the threaded pins onto the thrust flange of the SitaRondo. In case of a bituminous roof sealing a rubber sealing sleeve is not necessary. Grease the thrust flange with bitumen primer and weld the bitumen track (tracks) on the roof structure.

11.2



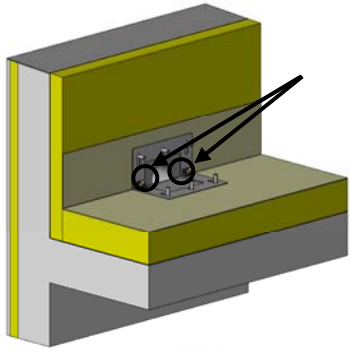
Determine the position of the SitaRondo in the roof track.
Use the loose flange as template for the threaded pins hole pattern of the SitaRondo. Mark the hole pattern and punch it out with a punch (ø13 mm). Pull The roofing track (tracks) over the threaded pins and lay them on the rubber sealing sleeve. Cut out the roof track inside the loose flange. A seam overlap in the flange area is not allowed.

11.3



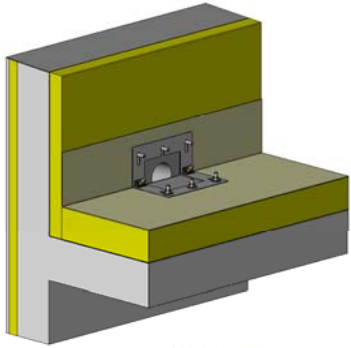
Lay the Sita rubber sealing sleeve small over the threaded pins on the roof track. Heat the roof track and lay the loose flange over the threaded pins on the Sita rubber sealing sleeve small.

11.4



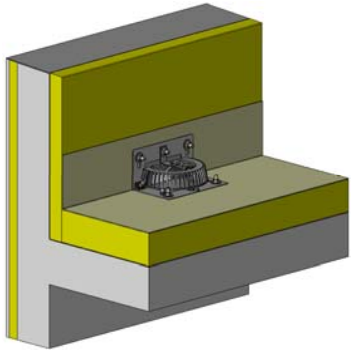
Push the bulkheads and the washer ø 24 mm in the edge areas of the SitaRondo over the threaded pins on the loose flange. Apply the nuts and tighten alternating with a torque of max. 30 Nm.

11.5



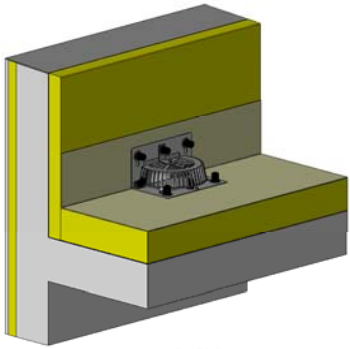
Push the washers ø36 mm over the threaded pins on the loose flange in the sealing layer. Apply the nuts and tighten alternating with a torque of max. 30 Nm.

11.6



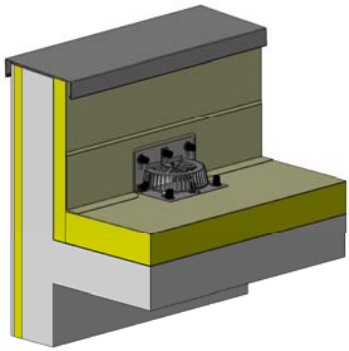
Put the dome grate with the angle bracket on the middle threaded pin in the parapet layer. Push the washer ø36 mm over the threaded pins on the loose flange or respectively angle bracket. Apply the nuts and tighten alternating with a torque of max. 30 Nm.

11.7



Press the caps on the nuts.

11.8



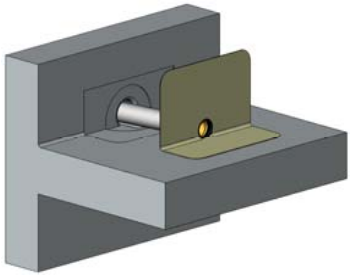
According to DIN 18195 is a loose- thrust-flange construction at least three times to be controlled and tighten up in a timing of > 24 hours.

12. SitaEasy

12.1

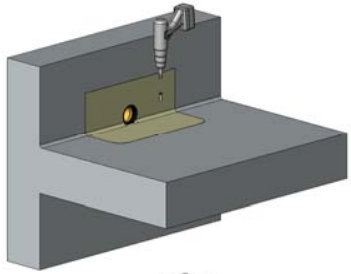
Grease the connection socket of the SitaEasy and the sealing of the coupler pipe with lubricate. Push the connection pipe on the socket of the SitaEasy.

12.2



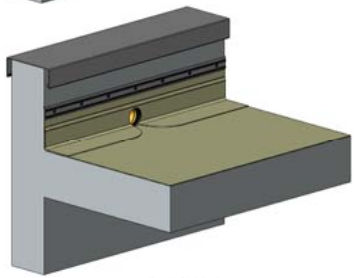
Push the SitaEasy with connected connection pipe through the core drill into the parapet.

12.3



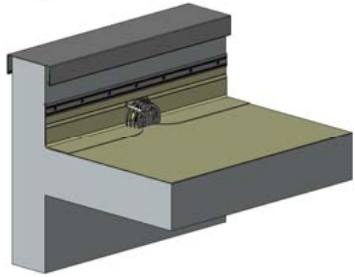
Fix the flange of the SitaEasy mechanically.

12.4



Glue or weld the roof track (tracks) onto the SitaEasy connection sleeve.

12.5



The SitaEasy dome grate can be inserted into the fixation ring of the SitaEasy if necessary.

Notes:

Notes:

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Subject to technical changes, even without notice.