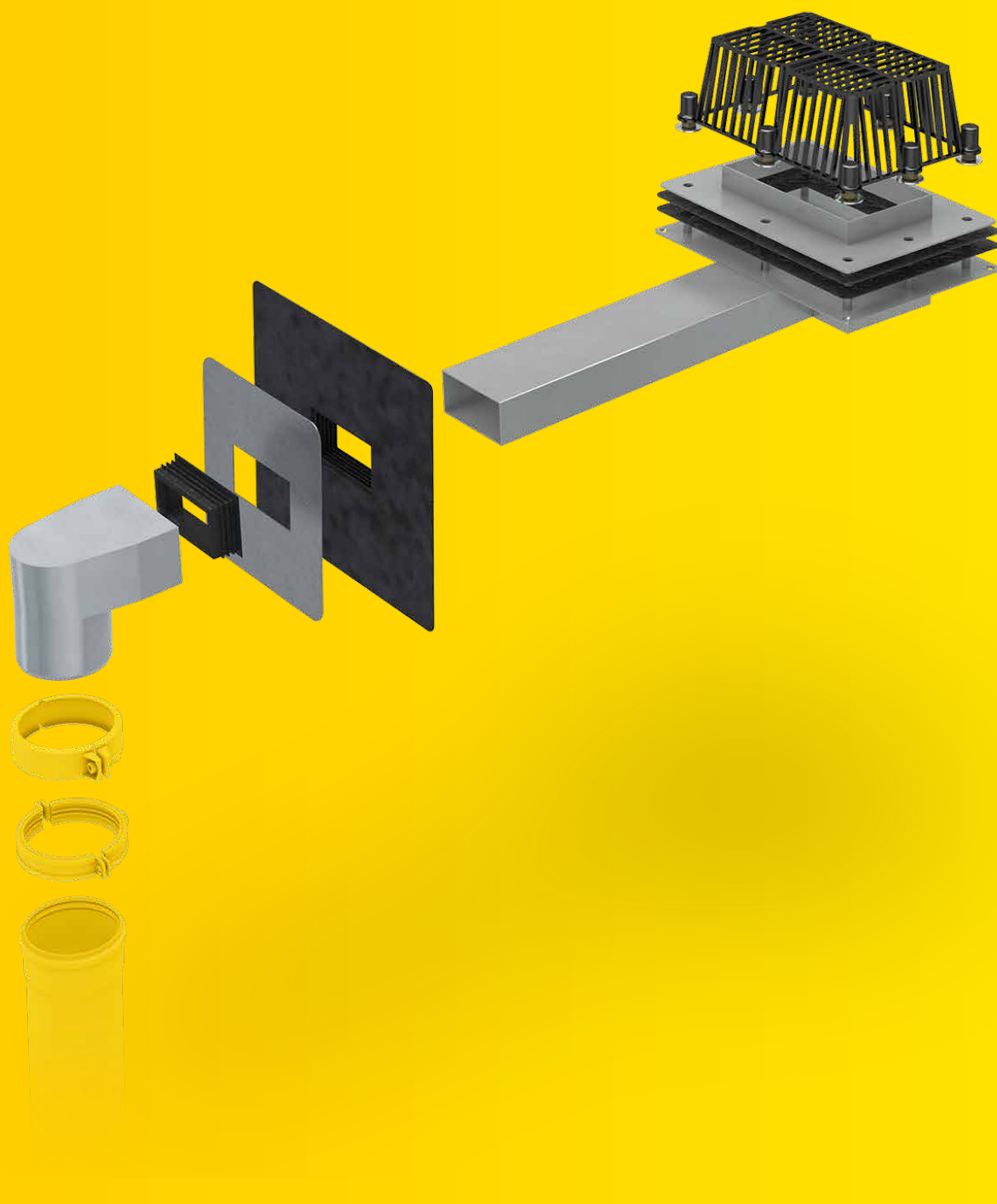
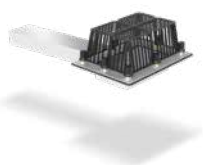


SitaTurbo

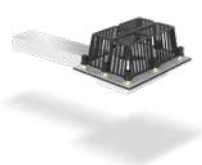
Extremely flat and particularly robust.



- + Very high discharge rate
- + For main and emergency drainage
- + Extremely flat construction
- + Screw-on flange construction



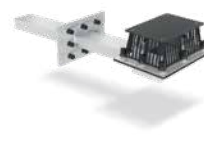
SitaTurbo



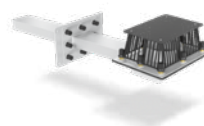
SitaTurbo
Max



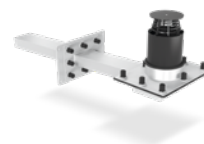
SitaTurbo
Max with retaining ring



SitaTurbo
Inverted roof



SitaTurbo
Max inverted roof



SitaTurbo
Max inverted roof
with retaining ring



SitaTurbo
Adapter on SitaPipe
stainless steel pipe



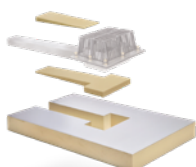
SitaTurbo
Adapter to round
zinc pipe according
to DIN EN 612



SitaTurbo
Adapter to rectangular
zinc pipe



SitaTurbo
Insulating body
Mineral wool



SitaTurbo
Insulating body
Polyurethane



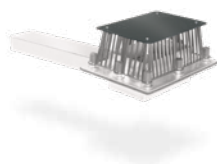
SitaTurbo
Insulating body XPS



SitaTurbo
Vapour barrier plate



SitaTurbo
Cladding cover plate



SitaTurbo
Cover plate



SitaTurbo Max
Cover plate



SitaTurbo
Terrace kit



SitaTurbo
Height compensation set



SitaTurbo
Connecting sleeve
Bitumen



SitaTurbo
Connecting sleeve Foil

SitaTurbo

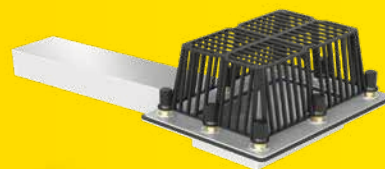
Product features at a glance:

Product features

Applications	For main and emergency drainage to DIN EN 12056-3 and DIN 1986-100 for used and unused flat roofs
Material	Rust-proof stainless steel
Temperature resistance, min.	-20 °C
Material class	Euroclass A1 /A1 non-flammable
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable + Increased discharge capacity
Workmanship	The general rules of engineering as well as the installation examples and installation instructions of Sita Bauelemente GmbH form the basis. The installation examples are for illustration purposes only and are a general, non-binding recommendation. The design is shown in schematic form only and does not replace the necessary work, detail and installation planning by the contractor. The customer, planner, contractor, etc. is responsible for checking the suitability, completeness and dimensions for the project and adjusting or tailoring the components to suit local requirements. Neighbouring works are shown in schematic form with no guarantee of their being complete or correct. The technical specifications in the information sheets, workmanship guidelines and system permits must be adhered to.

Quality mark

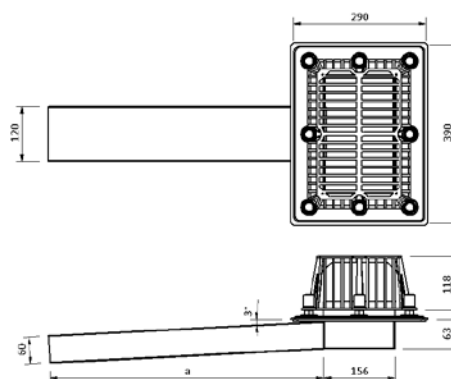




Tender text

SitaTurbo parapet outlet, made of stainless steel, material number 1.4301, according to DIN EN 1253-2. Discharge rate as waterspout 5.0 l/s at 65 mm retaining height and 8.7 l/s at 35 mm retaining height with a 4.0 m-long connected DN/OD 100/110 mm downpipe, with screw-on flange construction to DIN 18195. With flat loose flange or loose retaining flange and two sealing sleeves for clamping of bitumen, plastic or EPDM roofing membranes. With eight M12 stainless steel threaded rods, brass nuts, protective caps, washers and dome grate permanently welded to the fixed flange, supply and install to professional standards.

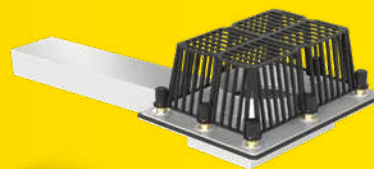
Technical drawing



Loose flange height (mm)	Article number for pipe length a = 600 mm	Article number for pipe length a = 1,000 mm	Article number for pipe length a = 2,000 mm
0	18 60 99	18 62 99	18 71 99
25	18 63 99	18 64 99	18 72 99
35	18 65 99	18 66 99	18 73 99
45	18 67 99	18 68 99	18 76 99
55	18 69 99	18 70 99	18 77 99

Discharge rate according to DIN EN 1253-2

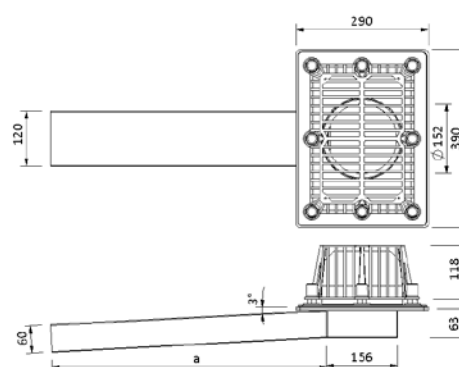
Pipe cross-section (mm x mm)	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
120 x 60	0.6	1.5	2.3	3.0	3.6	3.9	4.1	4.3	4.4	4.5	4.6	4.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0



Tender text

SitaTurbo Max, made of rust-proof stainless steel, material number 1.4301 to DIN EN 1253-2, with screw-on flange construction, 600 mm / 1000 mm / 2000 mm pipe length, discharge rate as waterspout 8.8 l/s at 65 mm retaining height, with flat loose flange or loose retaining flange and two sealing sleeves for clamping of bitumen, plastic or EPDM roofing membranes. With eight M12 stainless steel threaded rods, brass nuts, protective caps, washers and dome grate permanently welded to the fixed flange, supply and install to professional standards.

Technical drawing



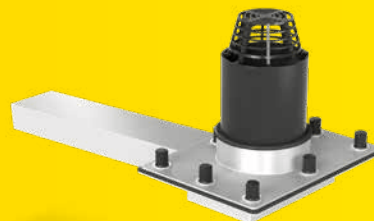
Loose flange height (mm)	Article number for pipe length a = 600 mm	Article number for pipe length a = 1,000 mm	Article number for pipe length a = 2,000 mm
0	18 06 00 99	18 10 00 99	18 20 00 99
10	18 06 10 99	18 10 10 99	18 20 10 99
25	18 06 25 99	18 10 25 99	18 20 25 99
35	18 06 35 99	18 10 35 99	18 20 35 99
45	18 06 45 99	18 10 45 99	18 20 45 99
55	18 06 55 99	18 10 55 99	18 20 55 99

Discharge rate according to DIN EN 1253-2

Pipe cross-section (mm x mm)	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
120 x 60	0.7	1.4	2.3	3.0	4.0	5.0	6.3	7.1	7.7	8.1	8.3	8.5	8.8	9.0	9.2	9.3	9.5	9.7	9.9	10.0

SitaTurbo

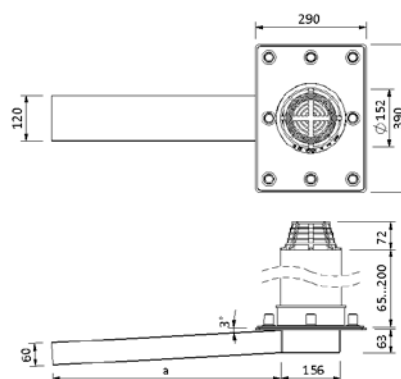
Max with retaining ring



Tender text

SitaTurbo Max retaining ring, made of rust-proof stainless steel, material number 1.4301 to DIN EN 1253-2, with screw-on flange construction, 600 mm / 1000 mm / 2000 mm pipe length, discharge rate as waterspout 8.8 l/s at 65 mm retaining height, 200 mm PE-HD retaining ring that can be shortened on site, sealing ring for PE ring, with 55 mm loose retaining flange and two sealing sleeves for clamping of bitumen, plastic or EPDM roofing membranes. With eight M12 stainless steel threaded rods, brass nuts, protective caps, washers and dome grate permanently welded to the fixed flange, supply and install to professional standards.

Technical drawing



Loose flange height (mm)	Article number for pipe length a = 600 mm	Article number for pipe length a = 1,000 mm	Article number for pipe length a = 2,000 mm
200	18 06 65 99	18 10 65 99	18 20 65 99

Discharge rate according to DIN EN 1253-2

Pipe cross-section (mm x mm)	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
120 x 60	0.7	1.4	2.3	3.0	4.0	5.0	6.3	7.1	7.7	8.1	8.3	8.5	8.8	9.0	9.2	9.3	9.5	9.7	9.9	10.0

SitaTurbo

Inverted roof

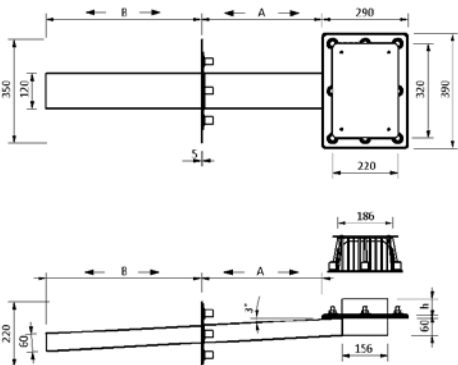


SitaTurbo

Tender text

SitaTurbo inverted roof, parapet outlet with rectangular pipe according to DIN EN 1253-2. Discharge rate as waterspout 5.0 l/s at 65 mm retaining height and 8.7 l/s at 35 mm retaining height with a 4.0 m-long connected DN/OD 100/110 mm downpipe. Made of stainless steel (material no. 1.4301), with screw-on flange as retaining element for clamping the protective fleece and with a flange plate welded to the rectangular pipe for clamping bitumen, plastic or EPDM roofing membrane, with sealing sleeves, threaded pins, plain washers, M12 nuts, protective caps and dome grate, supply and install to professional standards.

Technical drawing



A	B	H	Article number
Distance to the parapet	Parapet width plus overhang	Height of loose retaining flange according to specification	18 59 99

Discharge rate according to DIN EN 1253-2

Pipe cross-section (mm x mm)	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
120 x 60	0.6	1.5	2.3	3.0	3.6	3.9	4.1	4.3	4.4	4.5	4.6	4.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

SitaTurbo

Max inverted roof

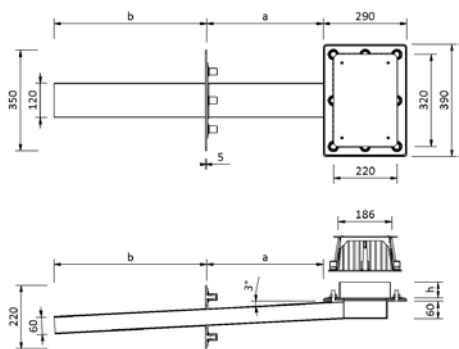


SitaTurbo

Tender text

SitaTurbo Max inverted roof, made of rust-proof stainless steel, material no. 1.4301, according to DIN EN 1253-2, discharge rate as waterspout 8.8 l/s at 65 mm retaining height with screw-on flange construction for clamping the protective fleece and with a flange plate welded to the rectangular pipe for clamping bitumen, plastic or EPDM roofing membranes with sealing sleeves, threaded pins, washers, M12 nuts, protective caps and dome grate, supply and install to professional standards.

Technical drawing



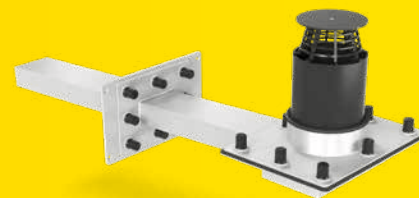
A	B	H	Article number
Distance to the parapet	Parapet width plus overhang	Height of loose retaining flange according to specification	18 21 00 99
450	700		18 27 00 99

Discharge rate according to DIN EN 1253-2

Pipe cross-section (mm x mm)	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
120 x 60	0.7	1.4	2.3	3.0	4.0	5.0	6.3	7.1	7.7	8.1	8.3	8.5	8.8	9.0	9.2	9.3	9.5	9.7	9.9	10.0

SitaTurbo

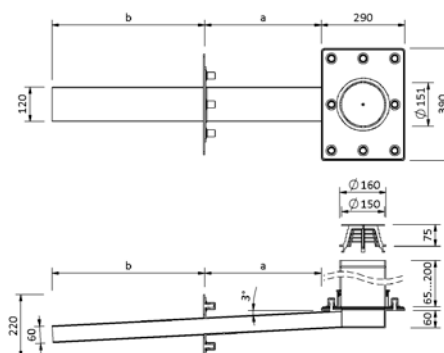
Max inverted roof with retaining ring



Tender text

SitaTurbo Max inverted roof with retaining ring, made of rust-proof stainless steel, material no. 1.4301, according to DIN EN 1253-2, discharge rate as waterspout 8.8 l/s at 65 mm retaining height with a 200 mm PE-HD retaining ring that can be shortened on site, with 55 mm loose retaining flange and two sealing sleeves for clamping the protective fleece and with a flange plate welded to the rectangular pipe for clamping bitumen, plastic or EPDM roofing membranes with sealing sleeves, threaded pins, washers, M12 nuts, protective caps and dome grate, supply and install to professional standards.

Technical drawing



A	B	Article number
Distance to the parapet	Parapet width plus overhang	18 21 65 99
450	700	18 27 65 99

Discharge rate according to DIN EN 1253-2

Pipe cross-section (mm x mm)	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
120 x 60	0.7	1.4	2.3	3.0	4.0	5.0	6.3	7.1	7.7	8.1	8.3	8.5	8.8	9.0	9.2	9.3	9.5	9.7	9.9	10.0

SitaTurbo

Adapter on SitaPipe stainless steel pipe

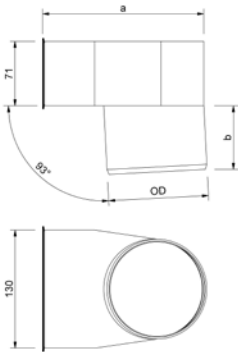


SitaTurbo

Tender text

SitaTurbo transition piece to SitaPipe stainless steel pipe, made of rust-proof stainless steel, material number: 1.4301, for transition from the SitaTurbo parapet outlet to a SitaPipe stainless steel pipe according to DIN EN 1122-2, in sizes DN 50, DN 70, DN 100 and DN 125, with lubricant and sealing ring, supply and install to professional standards.

Technical drawing



DN	OD*	a (mm)	b (mm)	Article number
50	50	115	52	18 91 01
70	75	140	58	18 91 03
100	110	175	70	18 91 05
125	125	190		18 91 07

* OD = Outer diameter (mm)

SitaTurbo

Adapter to round zinc pipe according to DIN EN 612

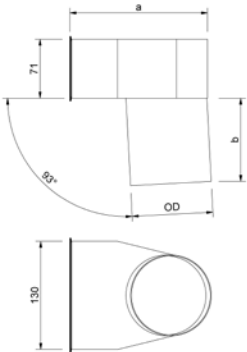


SitaTurbo

Tender text

SitaTurbo transition piece to round zinc pipe, made of stainless steel, material number: 1.4301, for transition from the SitaTurbo parapet outlet to a round zinc pipe according to DIN EN 612, in sizes DN 80, DN 100 and DN 125, with lubricant and sealing ring, supply and install to professional standards.

Technical drawing



DN	OD*	a (mm)	b (mm)	Article number
70	75	140	58	18 91 16
80	77	143	100	18 91 08
100	97	163		18 91 09
125	117	183		18 91 10

* OD = Outer diameter (mm)

SitaTurbo

Adapter to rectangular zinc pipe

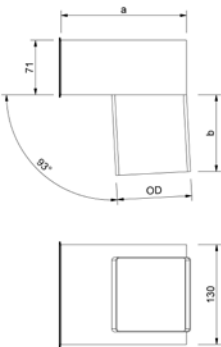


SitaTurbo

Tender text

SitaTurbo transition piece to rectangular pipe, made of stainless steel, material number: 1.4301, for transition from the SitaTurbo parapet outlet to a rectangular zinc pipe according to DIN EN 612, with external dimensions 77 mm x 77 mm, 97 mm x 97 mm and 117 mm x 117 mm, with lubricant and sealing ring, supply and install to professional standards.

Technical drawing



Measurement (mm)	a (mm)	b (mm)	Article number
77	142	100	18 91 11
97	163		18 91 12
117	183		18 91 13

SitaTurbo

Insulating body Mineral wool

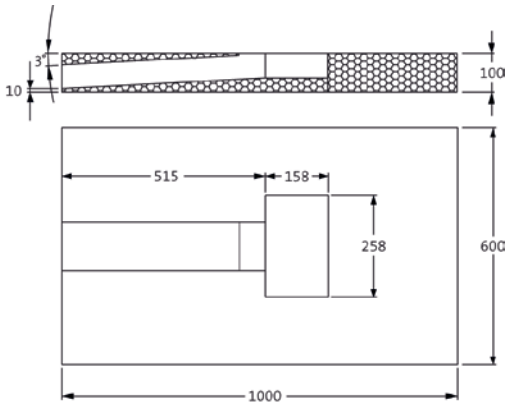


SitaTurbo

Tender text

SitaTurbo insulating body, made of mineral fibres, WLG 040, fire class A1 (not flammable), application type DAA dm according to DIN 4108-10, compressive stress ≥ 70 kPa. For thermal insulation and installation aid for positioning the cladding penetration and the SitaTurbo vapour barrier plate, supply and install to professional standards.

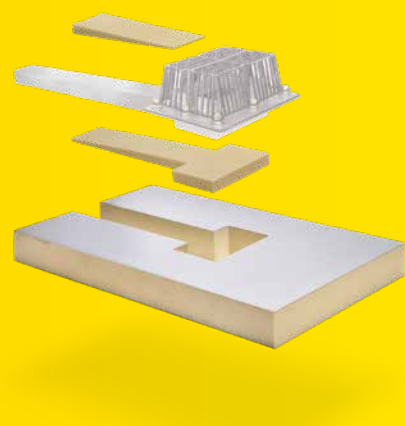
Technical drawing



Compatibility	Article number
SitaTurbo, SitaTurbo Max	18 91 21

SitaTurbo

Insulating body Polyurethane

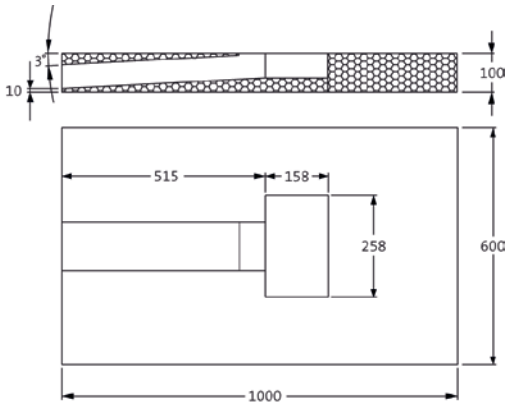


SitaTurbo

Tender text

SitaTurbo insulating body made of polyurethane, WLG 030, fire class E (B2 normally flammable), application type DAA dh according to DIN 4108-10, suitable for used roof surfaces. For thermal insulation and installation aid for positioning the cladding penetration and the SitaTurbo vapour barrier plate, supply and install to professional standards.

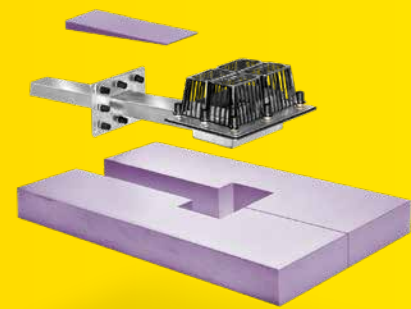
Technical drawing



Compatibility	Article number
SitaTurbo, SitaTurbo Max	18 91 22

SitaTurbo

Insulating body XPS

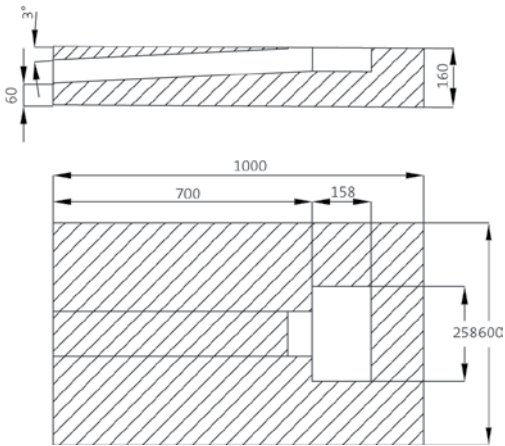


SitaTurbo

Tender text

SitaTurbo inverted roof insulating body made of extruded polystyrene (XPS), WLG 030, fire classification Euroclass E, according to DIN EN 13501-1, application type DUK according to DIN 4108-10, suitable for used roof surfaces. For thermal insulation and installation aid for positioning the cladding penetration and the SitaTurbo vapour barrier plate. Supply and installation to professional standards.

Technical drawing



Compatibility	Article number
SitaTurbo inverted roof, SitaTurbo Max inverted roof	18 91 23

SitaTurbo

Vapour barrier plate

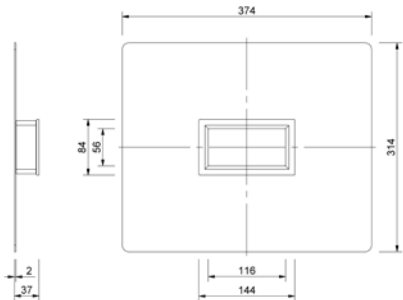


SitaTurbo

Tender text

SitaTurbo vapour barrier plate flex, made of EPDM, for SitaTurbo parapet outlet, with reinforcement ring and adhesive flange for a flexible vapour-tight connection of the vapour barrier, supply and install to professional standards.

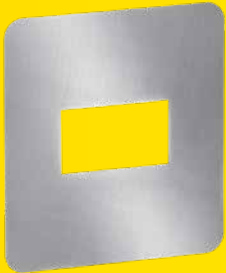
Technical drawing



Measurement (mm)	Article number
374 x 314	18 61 90

SitaTurbo

Cladding cover plate

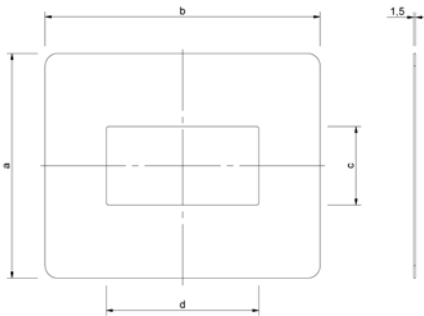


SitaTurbo

Tender text

SitaTurbo cladding cover plate, made of rust-proof stainless steel, material number 1.4301, to cover the parapet or wall opening for the SitaTurbo parapet outlet with a material thickness of 1.5 mm. For fastening on the external cladding, supply and install to professional standards.

Technical drawing

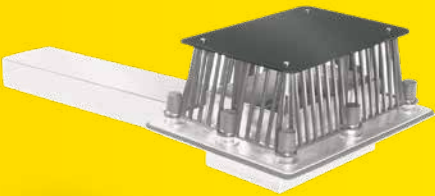


Compatibility	a (mm)	b (mm)	c (mm)	d (mm)	Article number
SitaTurbo, SitaTurbo Max, SitaTurbo Max with retaining ring, SitaKaskade Flat parapet lead-throughg	180	220	63	122	E 18 90 24
	250	250			E 18 90 21
SitaTurbo adapter	180	220	74	133	E 18 90 44*

* for SitaTurbo adapter, hole size 130 x 74 mm

SitaTurbo

Cover plate

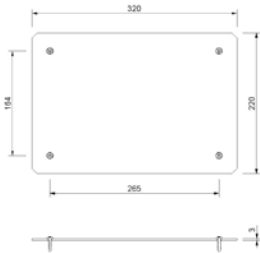


SitaTurbo

Tender text

SitaTurbo cover plate, made of polyethylene, to cover the SitaTurbo dome grate, with a material thickness of 3.0 mm, supply and install to professional standards.

Technical drawing



Article number
18 91 14

SitaTurbo Max

Cover plate

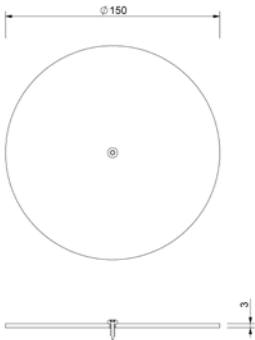


SitaTurbo

Tender text

SitaTurbo Max cover plate, made of polyethylene, to cover the dome grate of the SitaTurbo Max with retaining ring, with a material thickness of 3.0 mm, including fastening screw, supply and install to professional standards.

Technical drawing



Article number
18 91 15

SitaTurbo Terrace kit

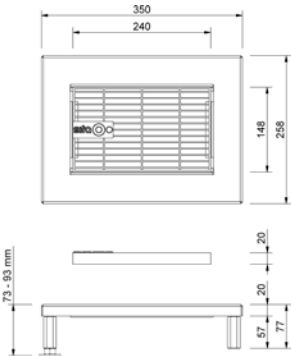


SitaTurbo

Tender text

SitaTurbo terrace kit, made of rust-proof stainless steel, material number 1.4301, for SitaTurbo parapet outlet. Height-adjustable from 73-93 mm through brass sleeves, with mesh cover (mesh size 9 mm x 64 mm), supply and install to professional standards.

Technical drawing



Height adjustment min (mm)	Height setting, max (mm)	Article number
57	77	18 90 60

SitaTurbo

Height compensation set

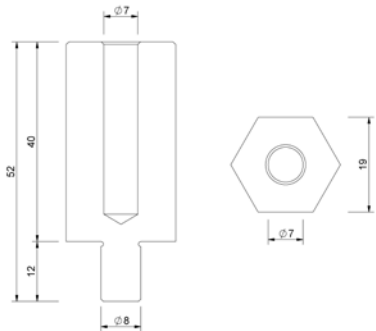


SitaTurbo

Tender text

SitaTurbo height compensation set, made of brass, for the SitaTurbo terrace kit, for additional height adjustment of 40 mm each, consisting of 4 brass sleeves, supply and install to professional standards.

Technical drawing



Compatibility	Article number
SitaTurbo patio kit	18 90 61

SitaTurbo

Connecting sleeve Bitumen

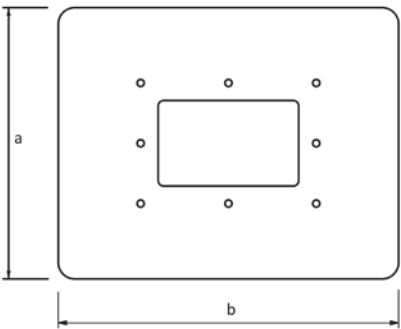


SitaTurbo

Tender text

SitaTurbo connection sleeve as bitumen capping sheet measuring 850 x 660 mm or as bitumen underlay measuring 620 x 495 mm, with pre-punched openings for threaded bolts and the inlet pot, supply and install to professional standards.

Technical drawing



a (mm)	b (mm)	Article number
495	620	11 91 70
660	850	11 91 71

SitaTurbo

Connecting sleeve Foil

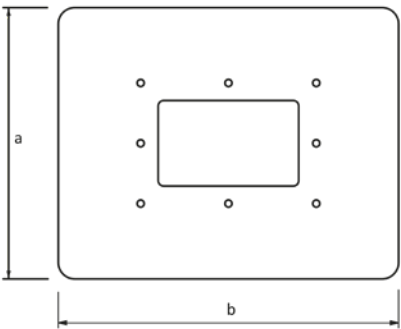


SitaTurbo

Tender text

SitaTurbo connection sleeve selected to suit the roofing membrane, measuring 620 x 495 mm, with pre-punched openings for threaded bolts and the inlet pot, supply and install to professional standards.

Technical drawing

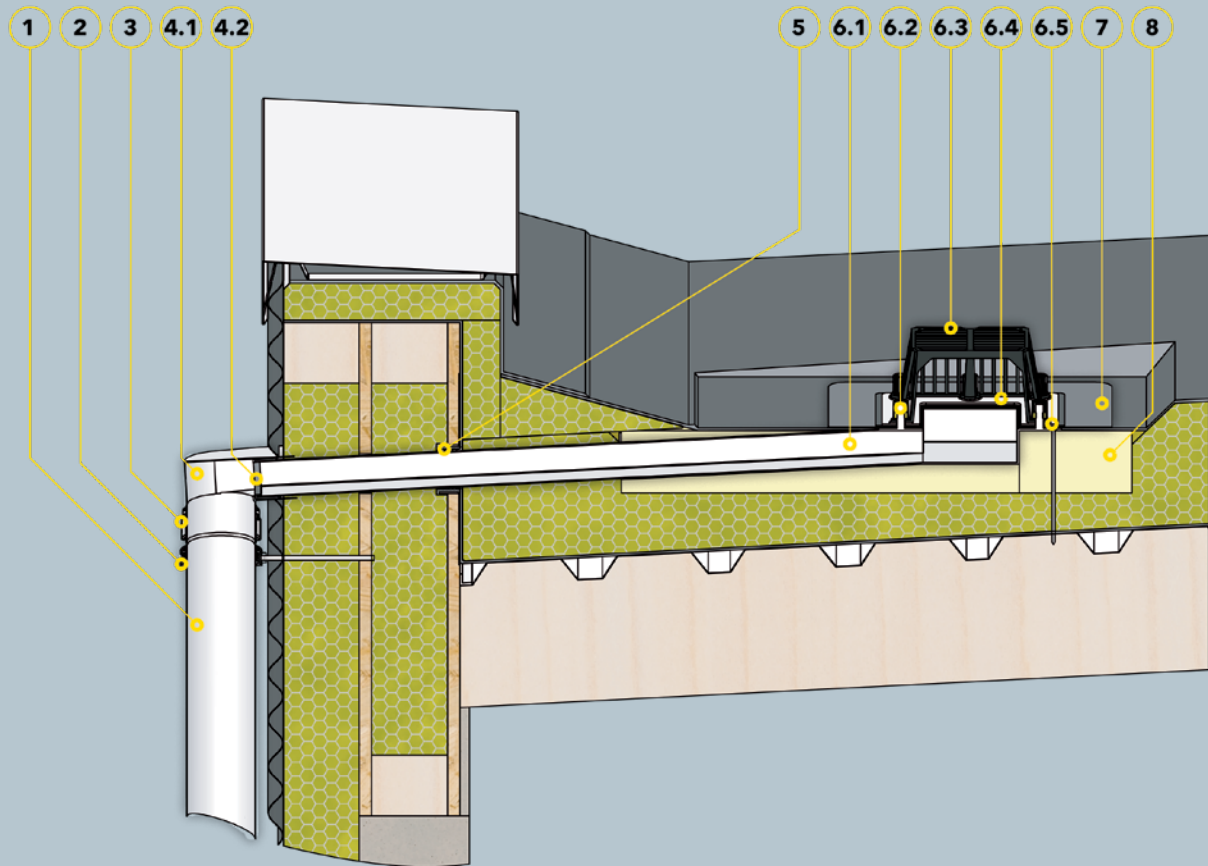


a (mm)	b (mm)	Article number
495	620	11 91 xx

xx = Article end numbers for connection sleeve of choice

SitaTurbo / SitaTurbo Max

SitaTurbo for main drainage in a non-ventilated roof structure for industrial roofs



SitaTurbo

Components

- 1 SitaPipe stainless steel pipe
- 2 SitaPipe stainless steel pipe clamp
- 3 SitaPipe stainless steel safety clamp

SitaTurbo transition piece consisting of:

- 4.1 SitaTurbo transition piece to round downpipe
- 4.2 SitaTurbo transition piece multi-disk seal

- 5 SitaTurbo vapour barrier plate flex

SitaTurbo consisting of:

- 6.1 SitaTurbo base body

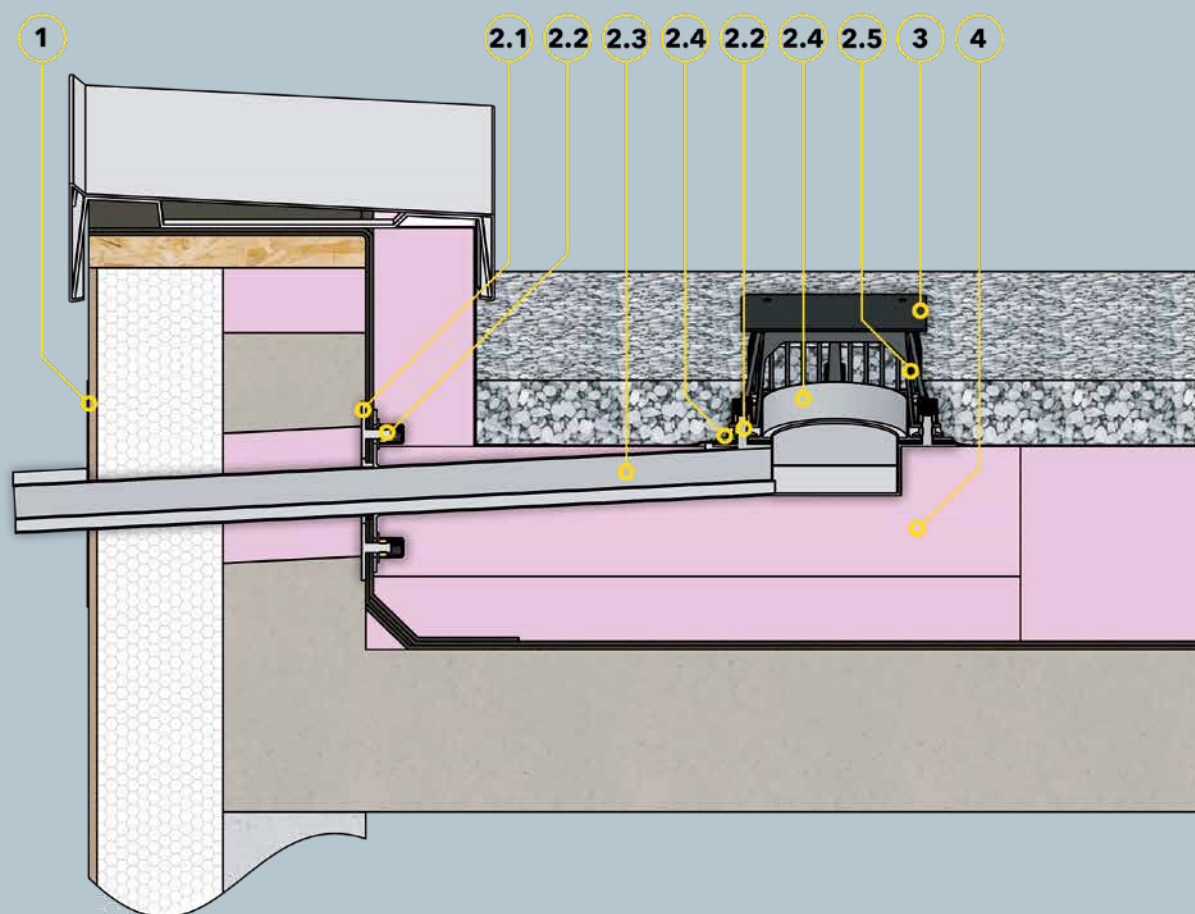
- 6.2 Washers, nuts and protective caps
- 6.3 Dome grate
- 6.4 Loose flange
- 6.5 Sealing sleeves

- 7 SitaTurbo connection sleeve
- 8 SitaTurbo insulating body

Roof structure

Non-ventilated roof structure to the general rules of engineering with:

- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet opening with joint tape



Components

1 SitaTurbo cladding cover plate

SitaTurbo inverted roof consisting of:

- 2.1** Fixed flange plate
- 2.2** Washers, nuts and protective caps
- 2.3** SitaTurbo base body with welded loose flange plate
- 2.4** Loose retaining flange
- 2.5** Dome grate

3 SitaTurbo cover plate

4 SitaTurbo insulating body XPS for inverted roof

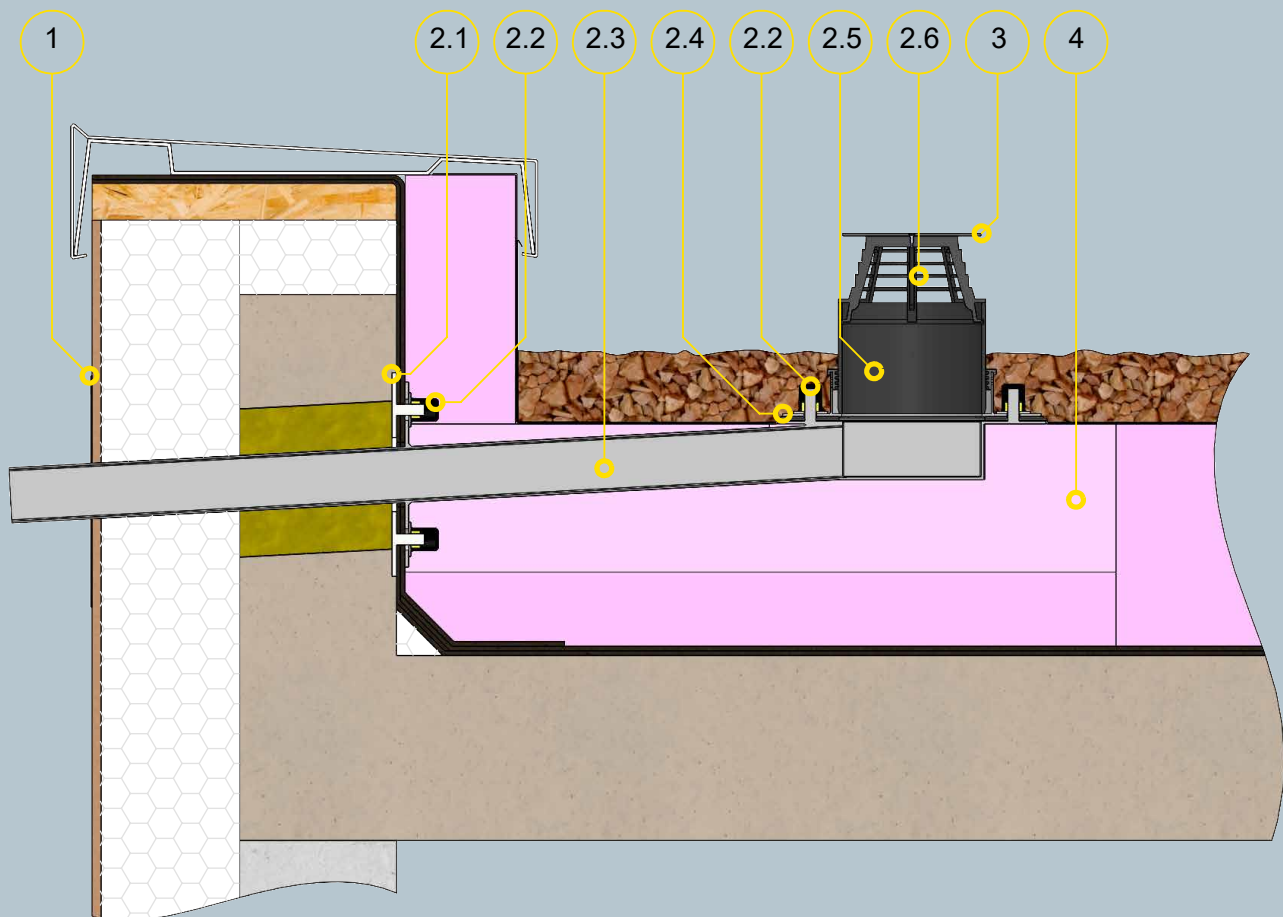
Roof structure

Inverted roof structure to the general rules of engineering with:

- + Gravel
- + Roofing fabric
- + Thermal insulation
- + Sealing
- + Substructure
- + Parapet lead-through with joint tape

SitaTurbo / SitaTurbo Max

SitaTurbo Max inverted roof with retaining ring for emergency drainage



SitaTurbo

Components

1 SitaTurbo cladding cover plate

SitaTurbo inverted roof consisting of:

- 2.1 Fixed flange plate
- 2.2 Washers, nuts and protective caps
- 2.3 SitaTurbo base body with welded loose flange plate
- 2.4 Loose retaining flange
- 2.5 PE retaining ring
- 2.6 Dome grate

3 Dome grate cover plate

4 SitaTurbo insulating body

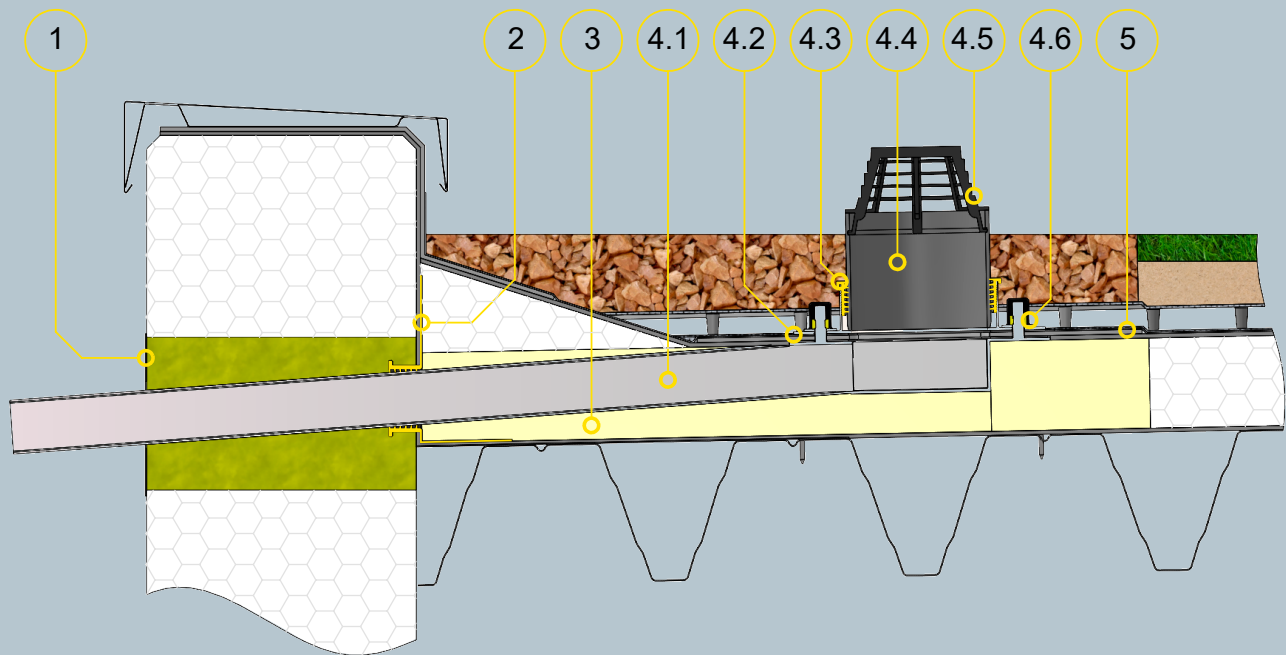
Roof structure

Inverted roof structure to the general rules of engineering with:

- + Gravel fill
- + Roof fleece
- + Thermal insulation
- + Waterproofing
- + Substructure
- + Attic breakthrough with joint tape

SitaTurbo / SitaTurbo Max

SitaTurbo Max with retaining ring in non-ventilated roof structure with greenery



SitaTurbo

Components

- 1 SitaTurbo cladding cover plate
- 2 SitaTurbo vapour barrier plate flex
- 3 SitaTurbo insulating body

SitaTurbo Max for emergency drainage consisting of:

- 4.1 SitaTurbo base body
- 4.2 Sealing sleeves
- 4.3 Washers, nuts and protective caps
- 4.4 Loose retaining flange, made of stainless steel with seal
- 4.5 PE retaining ring
- 4.6 Dome grate

- 5 SitaTurbo connection sleeve

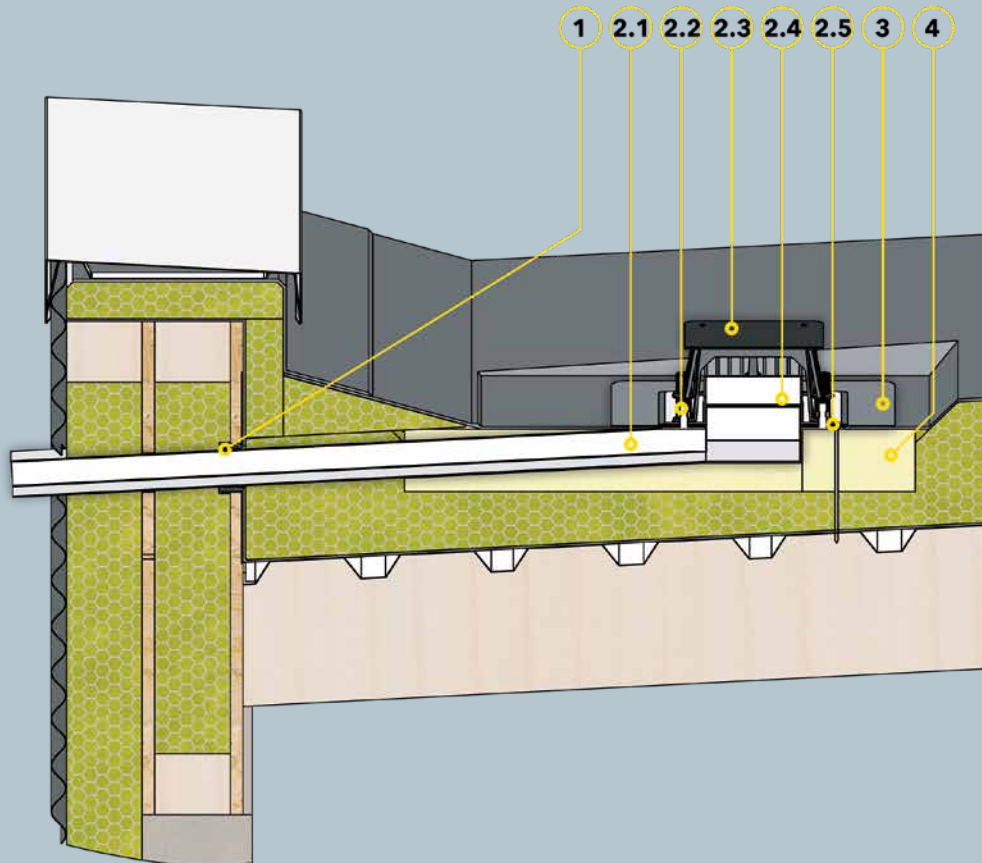
Roof structure

Non-ventilated roof structure with greenery according to the general rules of engineering with:

- + extensive roof greenery with vegetation layer according to system provider
- + drainage mat
- + protective fleece, protection mat
- + Sealing
- + Heat insulation
- + Vapour barrier
- + Substructure

SitaTurbo / SitaTurbo Max

SitaTurbo for emergency drainage in a non-ventilated roof structure



SitaTurbo

Components

- 1** SitaTurbo vapour barrier plate flex

SitaTurbo for emergency drainage consisting of:

- 2.1** SitaTurbo base body
- 2.2** Washers, nuts and protective caps
- 2.3** Dome grate with cover plate
- 2.4** Loose retaining flange
- 2.5** Sealing sleeves

- 3** SitaTurbo connection sleeve

- 4** SitaTurbo insulating body

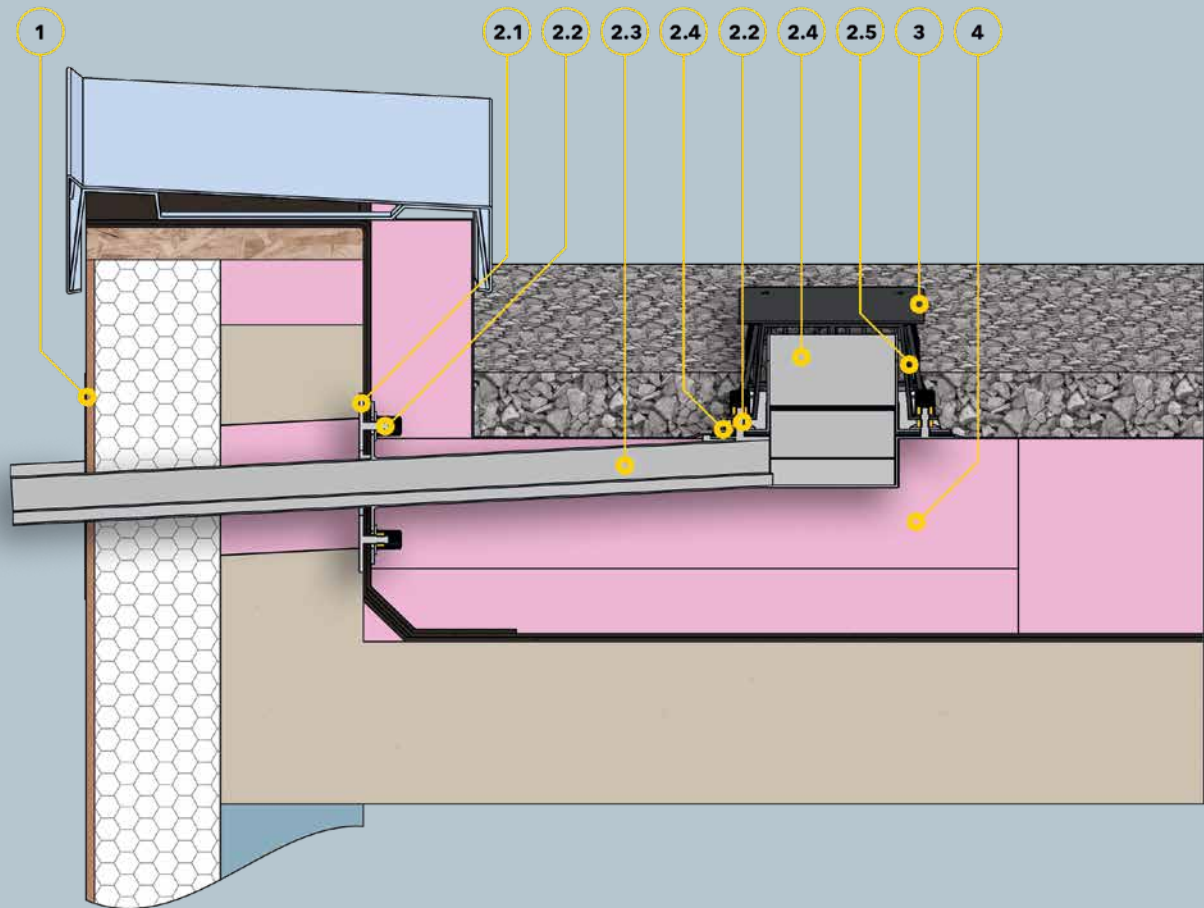
Roof structure

Non-ventilated roof structure to the general rules of engineering with:

- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet lead-through with joint tape

SitaTurbo / SitaTurbo Max

SitaTurbo inverted roof for emergency drainage in an inverted roof



SitaTurbo

Components

1 SitaTurbo cladding cover plate

SitaTurbo inverted roof consisting of:

- 2.1 Fixed flange plate
- 2.2 Washers, nuts and protective caps
- 2.3 SitaTurbo base body with welded loose flange plate
- 2.4 Loose retaining flange
- 2.5 Dome grate

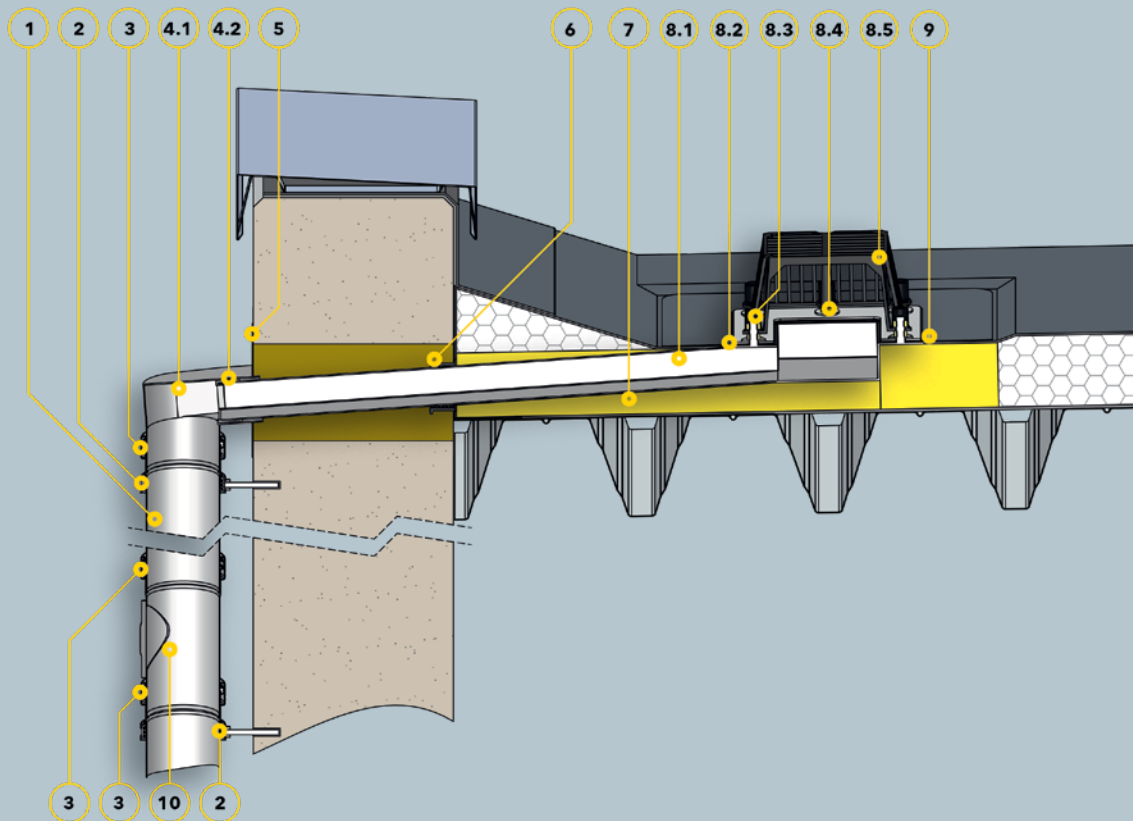
3 SitaTurbo cover plate

4 SitaTurbo insulating body XPS for inverted roof

Roof structure

Inverted roof structure to the general rules of engineering with:

- + Gravel
- + Roofing fabric
- + Thermal insulation
- + Sealing
- + Substructure
- + Parapet lead-through with joint tape



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaPipe stainless steel pipe clamp
- 3 SitaPipe stainless steel safety clamp

SitaTurbo transition piece consisting of:

- 4.1 Transition piece to round downpipe
- 4.2 Multi-disk seal

- 5 SitaTurbo cladding cover plate
- 6 SitaTurbo vapour barrier plate flex
- 7 SitaTurbo insulating body

SitaTurbo consisting of:

- 8.1 SitaTurbo base body
- 8.2 Sealing sleeves
- 8.3 Washers, nuts and protective caps
- 8.4 Loose flange
- 8.5 Dome grate

- 9 SitaTurbo connection sleeve
- 10 SitaPipe stainless steel cleaning pipe

Roof structure

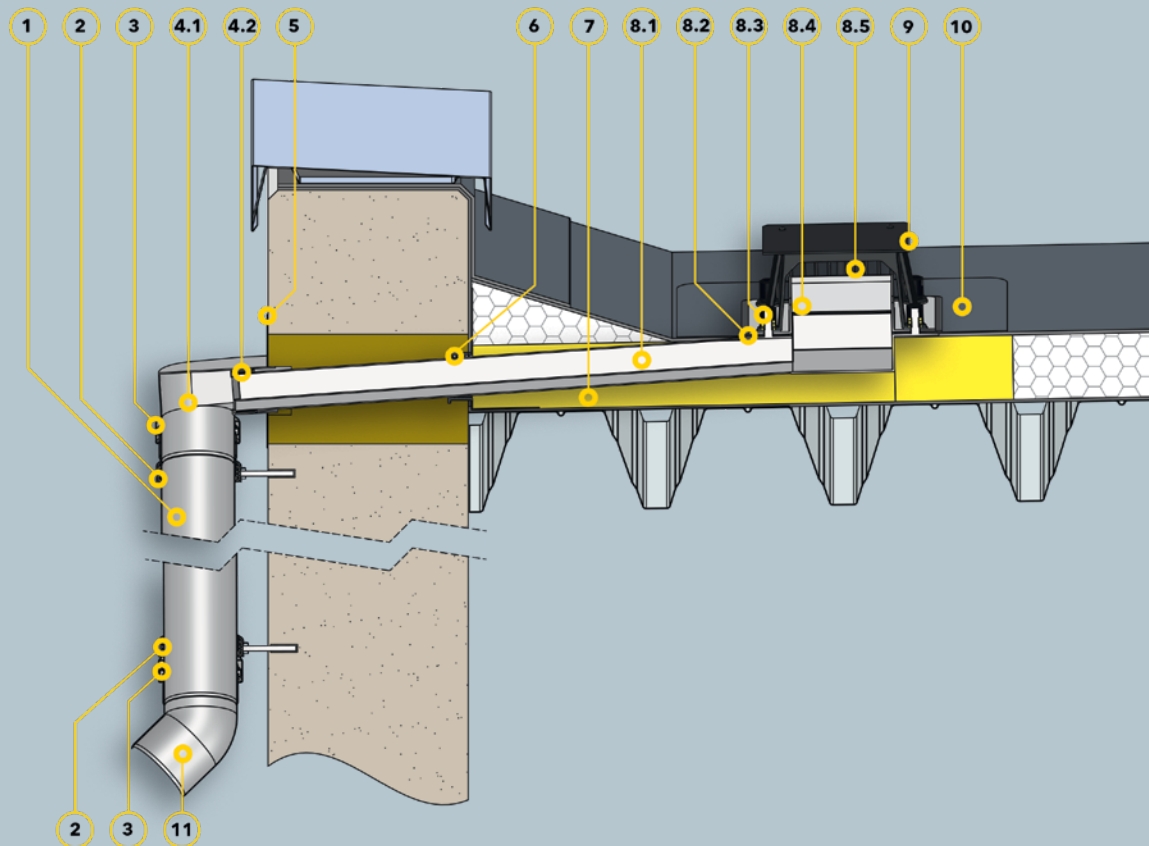
Non-ventilated roof structure to the general rules of engineering with:

- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet lead-through with joint tape

SitaTurbo / SitaTurbo Max

SitaTurbo for emergency drainage with downpipe in a non-ventilated roof structure

SitaTurbo



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaPipe stainless steel pipe clamp
- 3 SitaPipe stainless steel safety clamp

SitaTurbo transition piece consisting of:

- 4.1 Transition piece to round downpipe
- 4.2 Multi-disk seal

- 5 SitaTurbo cladding cover plate
- 6 SitaTurbo vapour barrier plate flex
- 7 SitaTurbo insulating body

SitaTurbo for emergency drainage consisting of:

- 8.1 SitaTurbo base body
- 8.2 Sealing sleeves
- 8.3 Washers, nuts and protective caps
- 8.4 Loose retaining flange
- 8.5 Dome grate

- 9 SitaTurbo cover plate
- 10 SitaTurbo connection sleeve
- 11 SitaPipe stainless steel bend 45°

Roof structure

Non-ventilated roof structure to the general rules of engineering with:

- + Sealing
- + Waterproofing membrane
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet opening with joint tape