

Sitaleicht.
Emergency Drainage.



ED

leicht entwässern.

ED

for Emergency Drainage:

You must get the water off the roof.

You need an emergency drainage system to get the water off your roof if it rains heavily. The main drainage system cannot manage these large volumes quickly enough. As climate change takes hold, an increase in heavy rainfall incidents is predicted. Rain can be a burden. To protect people, buildings and property, there are binding regulations which treat rain drainage systems as a whole.

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Why emergency drainage?

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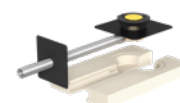
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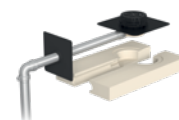
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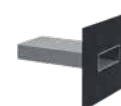
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Sitaleicht

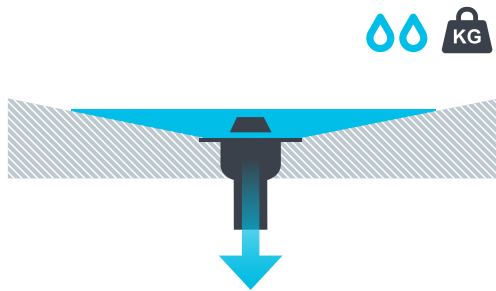
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The power of water. Extreme load on flat roofs.

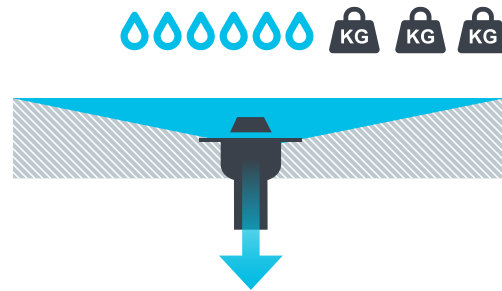
Sita is a safety maker. Are you expecting rain? We are. Sita provides protection – so that nothing happens in the first place. When rain is not a blessing but causes weather damage, professional calculation and design of flat roof drainage systems can help. So-called ‘once-in-a-century’ rainfall is included in the calculations made by Sita experts.

Water load during normal design rainfall



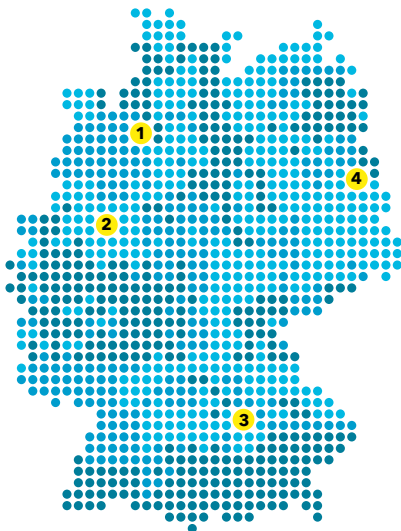
r_{5,5} A rainfall event defined by a duration of 5 minutes and a recurrence interval of 5 years.

Water load during heavy rainfall / once-in-a-century rainfall



r_{5,100} The once-in-a-century rainfall is a 5-minute heavy rainfall event.

Where does it rain the most?



The calculation is based on DIN 1986-100. Precipitation levels vary greatly from region to region. Sita uses the exact values from the KOSTRA catalogue of the German Weather Service.

Ort	r _(5,5) in l/(s · ha)	r _(5,100) in l/(s · ha)
1 Bremen	350	617
2 Rheda	367	667
3 München	357	637
4 Müncheberg	453	897

- Light rain (l/s)
- Average rain (l/s)
- Heavy rain (l/s)



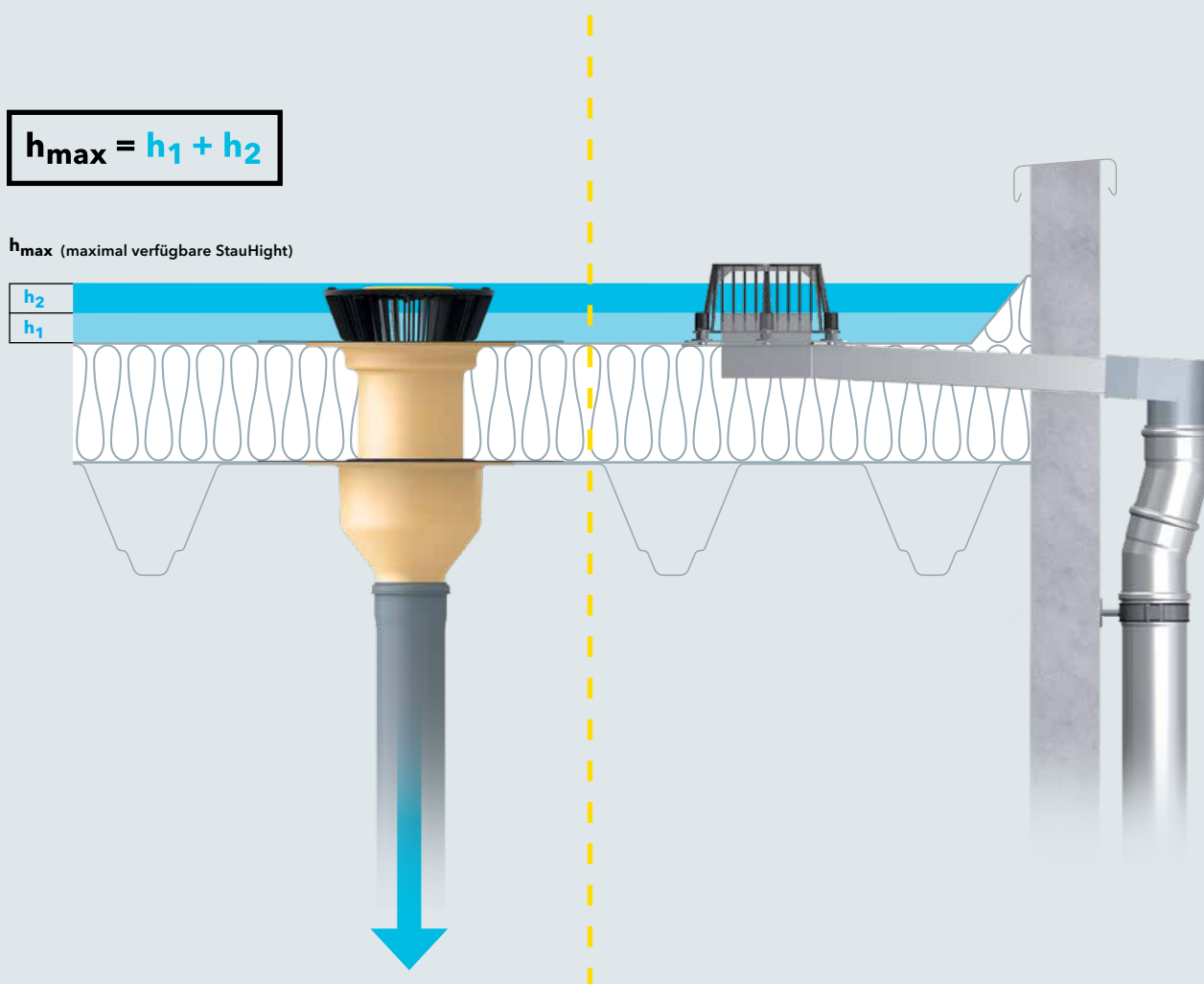
Thanks to Sita,
I can be sure that
my calculations
comply with
standards

Lars Heiderson
ARCHITECT

Emergency drainage: Not a question. But a responsibility.

Sita is a duty-conscious company. The guidelines for emergency drainage are constantly being adapted to changing climatic conditions. This also means that you, as the contractor, are liable for your work. Only a correctly designed drainage system – one that removes rainwater from the roof in all weather conditions – can provide the necessary safety for everyone. Emergency drainage is a must for a safe roof. **DIN standards and regulations on page 8.**

The principle of main and emergency drainage.



Main drainage

The main drainage system reaches its limits during heavy rainfall. At a precisely defined accumulation height, the emergency drainage system kicks in.

h_1 Damming height of main drainage

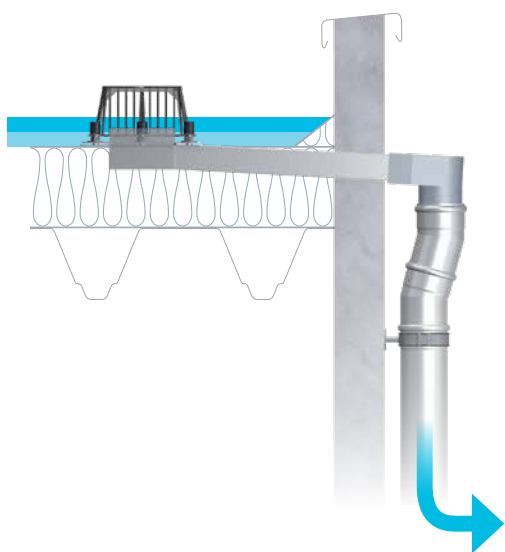
Emergency drainage

Emergency drainage systems through the parapet or facade **must drain freely onto the property**. Under no circumstances may they be connected to the drainage pipes of the main drainage system. This is the only way to prevent uncontrolled backflow and excessive static load.

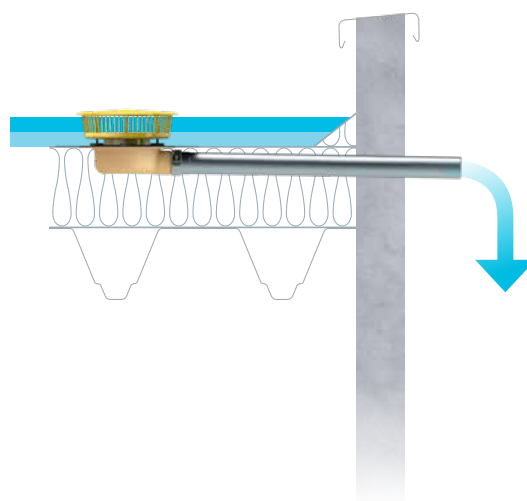
h_2 Damming height of emergency drainage

Sita emergency drainage systems. Every building and every roof has its own specific design features. A decision must be made as to whether excess rainwater from heavy rainfall should be drained via the parapet or via additional pipe systems. As a specialist in safe flat roof drainage, Sita offers a range of emergency drainage systems to suit different requirements and conditions.

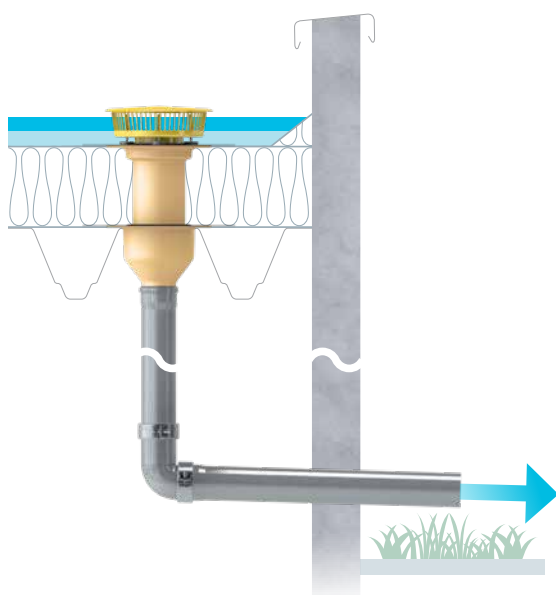
A **SitaTurbo with retaining element**
Passed through the parapet with intervention in the insulation



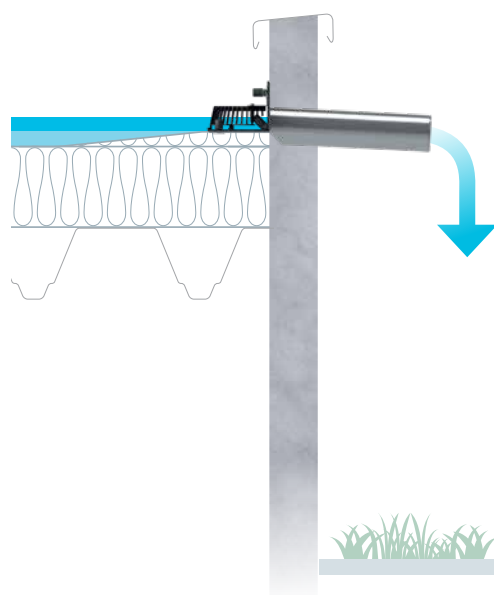
B **SitaIndra with retaining element**
Routed through the parapet with intrusion into the insulation



C **SitaStandard with SitaPipe stainless steel pipe system**
Guided through the facade



D **SitaRondo**
Above the insulation, led through the parapet as a spout



Watch the installation video now on the [YouTube](#) -Sita channel.

An easy decision.

Type of drainage	Foamed-in connection sleeve of choice	screw-on flange construction	High discharge rate	For large roof areas
Conventional drainage		○	○	○
Conventional drainage		○		
Conventional drainage	○		○	
Siphonic drainage	○		○	○
Conventional drainage	○		○	
Conventional drainage	○			
Conventional drainage	○			
Conventional drainage		○		
Conventional drainage	○			○
Conventional- or Siphonic drainage			○	○

Regulations and standards

The following standards and regulations, among others, must be taken into consideration when planning and installing flat roof drainage systems.

DIN EN 12056-3

Gravity drainage systems inside buildings

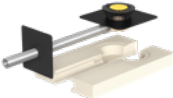
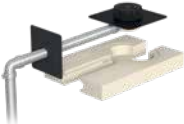
DIN EN 752

Drain and sewer systems outside buildings

DIN 1986-100

Drainage systems for buildings and properties

SITA DECISION MATRIX

For small roof areas	For use in combination with Conventional- and Siphonic drainage	Complete Set	Material properties	
			Rust-proof stainless steel	
			Rust-proof stainless steel	
			Polyurethane	
			Polyurethane	
			Polyurethane	
			Polyurethane	
			Polyurethane	
			Rust-proof stainless steel	
			Rust-proof stainless steel	
			Polyamide	

DIN 18531-1 to 5
Waterproofing membranes

DIN EN 1253-2
Roof outlets and floor drains without drain trap

DIN 18234
Fire protection for large roof areas

LAR Guideline
Fire protection requirements for pipe systems

ZVSHK Plumbing Handbook
Pipeline construction

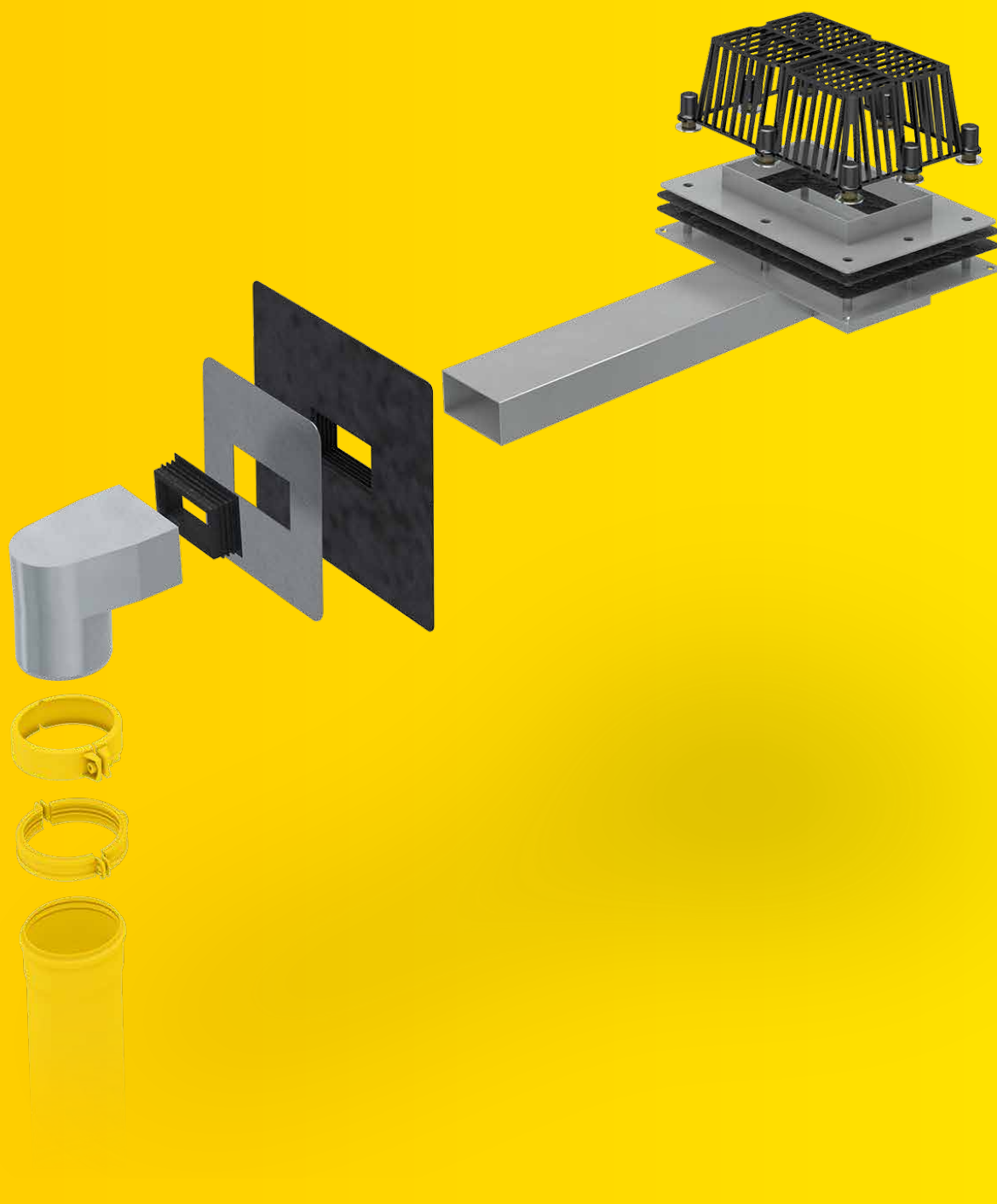
DDH regulation
Regulations for roofs with waterproofing membranes

FLL Guideline
For planning, building and maintaining roof greenings

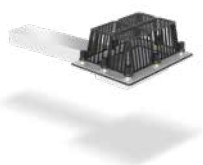
Industrial Construction Guideline
Guideline for fire protection in industrial buildings

SitaTurbo

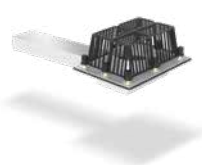
Extremely flat and particularly robust.



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



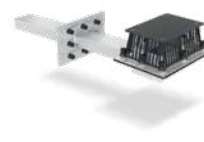
SitaTurbo



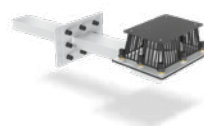
SitaTurbo
Max



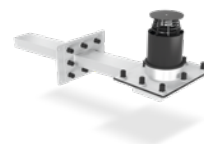
SitaTurbo
Max with retaining ring



SitaTurbo
Inverted roof



SitaTurbo
Max inverted roof



SitaTurbo
Max inverted roof
with retaining ring



SitaTurbo
Adapter on SitaPipe
stainless steel pipe



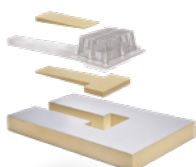
SitaTurbo
Adapter to round
zinc pipe according
to DIN EN 612



SitaTurbo
Adapter to rectangular
zinc pipe



SitaTurbo
Insulating body
Mineral wool



SitaTurbo
Insulating body
Polyurethane



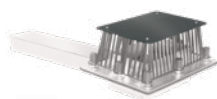
SitaTurbo
Insulating body XPS



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

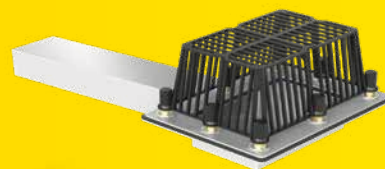
Product features at a glance:

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

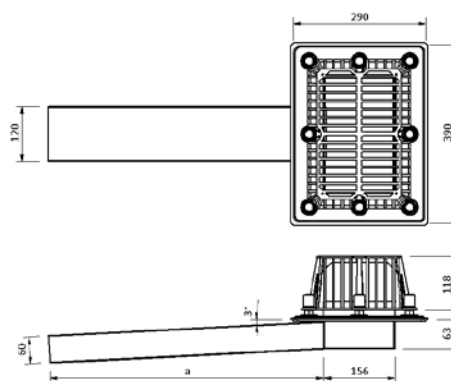




Tender text

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.

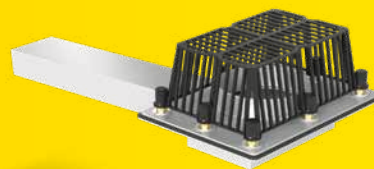
Technical drawing



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

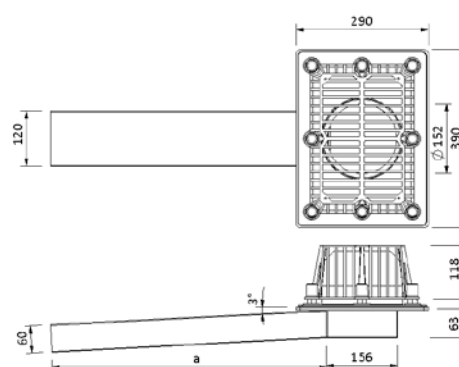
Pipe cross-section (mm x mm)	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
120 x 60	0.6	1.5	2.3	3.0	3.6	3.9	4.1	4.3	4.4	4.5	4.6	4.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0



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



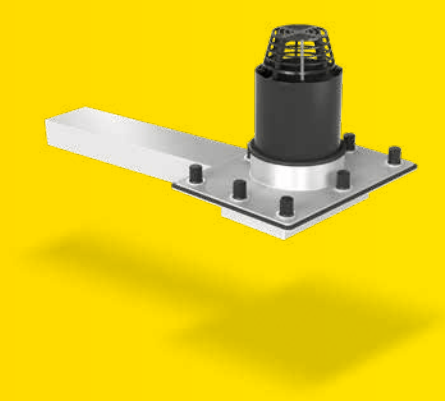
Loose flange height (mm)	Article number for pipe length a = 600 mm	Article number for pipe length a = 1,000 mm	Article number for pipe length a = 2,000 mm
0	18 06 00 99	18 10 00 99	18 20 00 99
10	18 06 10 99	18 10 10 99	18 20 10 99
25	18 06 25 99	18 10 25 99	18 20 25 99
35	18 06 35 99	18 10 35 99	18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

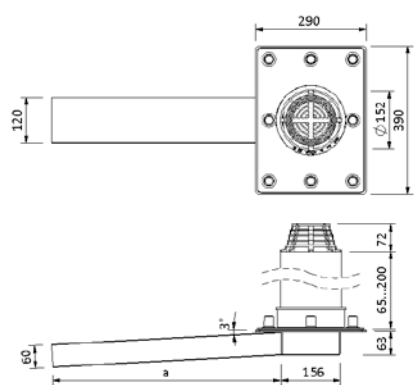


SitaTurbo

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

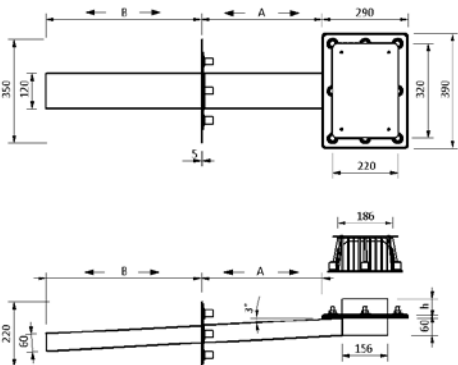


SitaTurbo

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

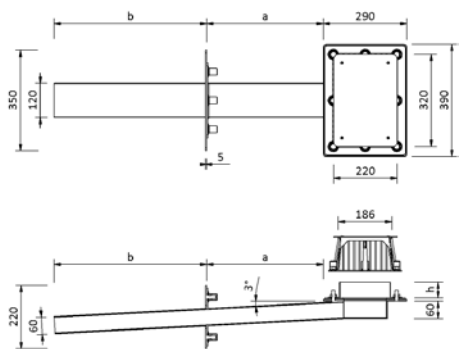


SitaTurbo

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



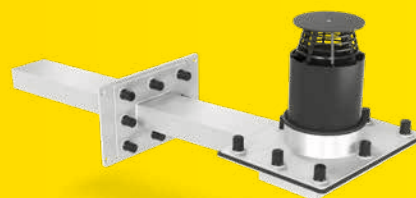
A	B	H	Article number
Distance to the parapet	Parapet width plus overhang	Height of loose retaining flange according to specification	18 21 00 99
450	700		18 27 00 99

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

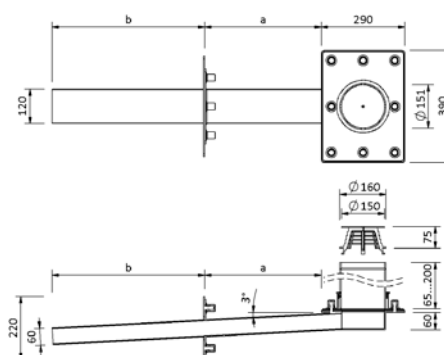
Max inverted roof with retaining ring



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

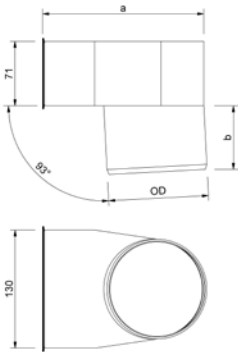
Adapter on SitaPipe stainless steel pipe



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

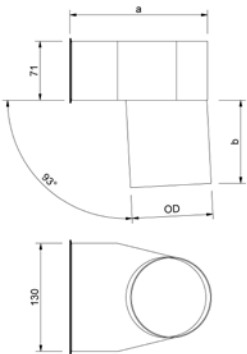


SitaTurbo

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

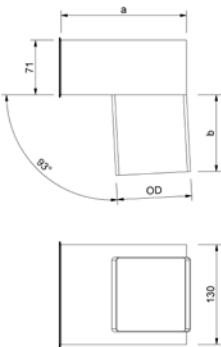


SitaTurbo

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

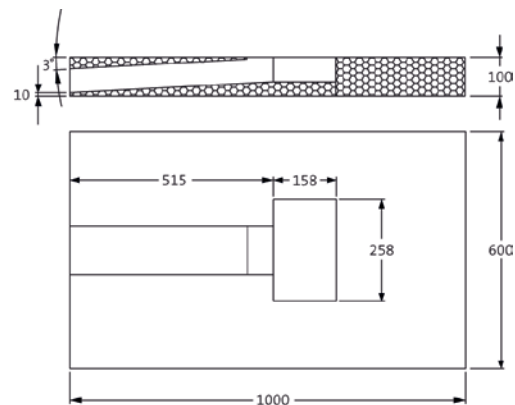


SitaTurbo

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.

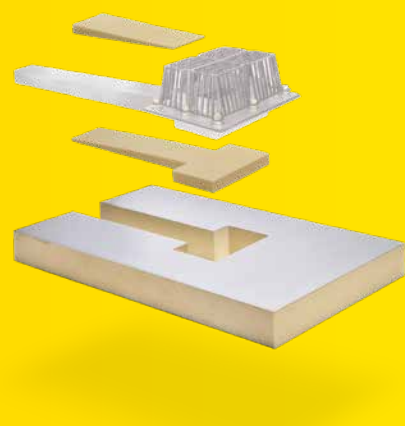
Technical drawing



Compatibility	Article number
SitaTurbo, SitaTurbo Max	18 91 21

SitaTurbo

Insulating body Polyurethane

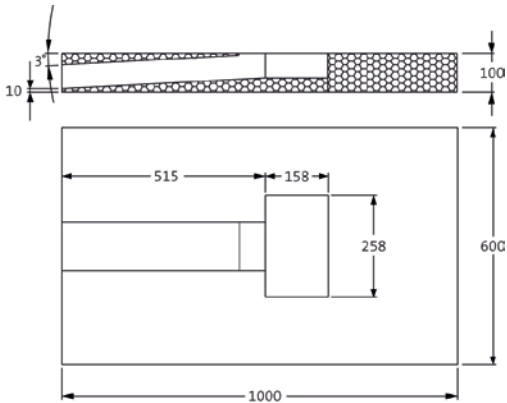


SitaTurbo

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.

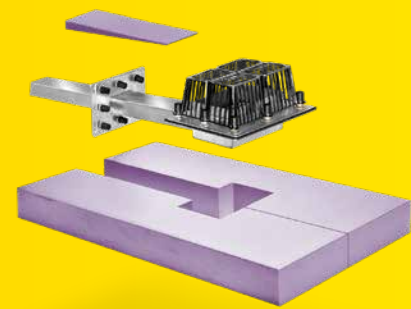
Technical drawing



Compatibility	Article number
SitaTurbo, SitaTurbo Max	18 91 22

SitaTurbo

Insulating body XPS

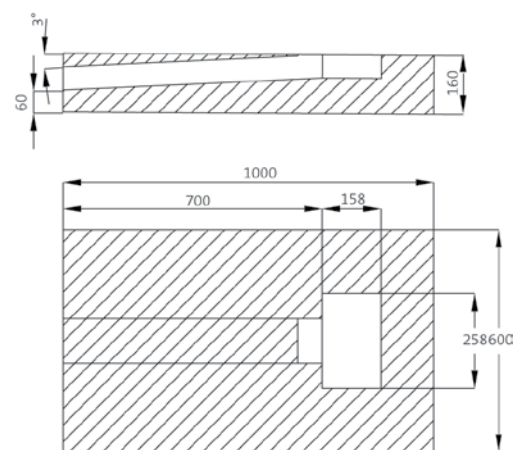


SitaTurbo

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

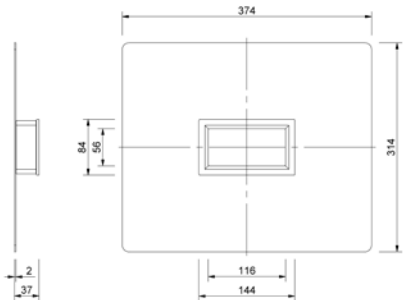


SitaTurbo

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.

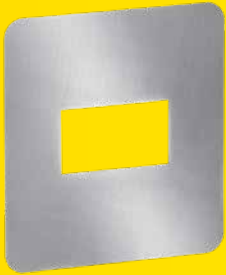
Technical drawing



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

SitaTurbo

Cladding cover plate

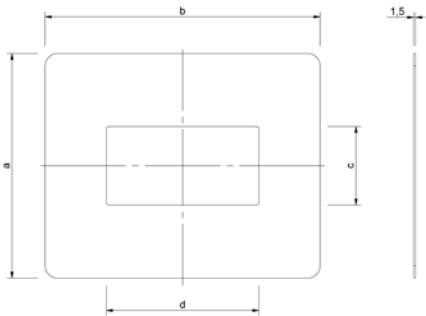


SitaTurbo

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

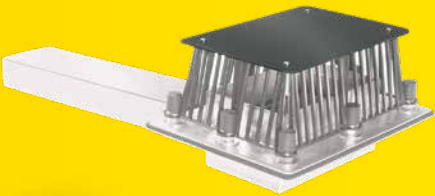


Compatibility	a (mm)	b (mm)	c (mm)	d (mm)	Article number
SitaTurbo, SitaTurbo Max, SitaTurbo Max with retaining ring, SitaKaskade Flat parapet lead-throughg	180	220	63	122	E 18 90 24
	250	250			E 18 90 21
SitaTurbo adapter	180	220	74	133	E 18 90 44*

* for SitaTurbo adapter, hole size 130 x 74 mm

SitaTurbo

Cover plate

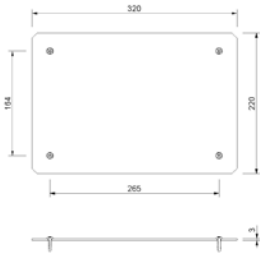


SitaTurbo

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

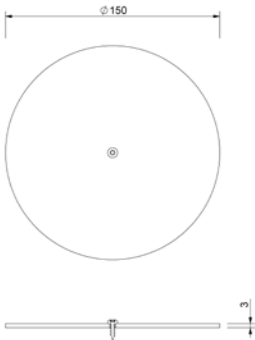


SitaTurbo

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

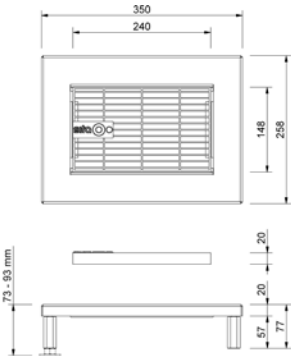


SitaTurbo

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

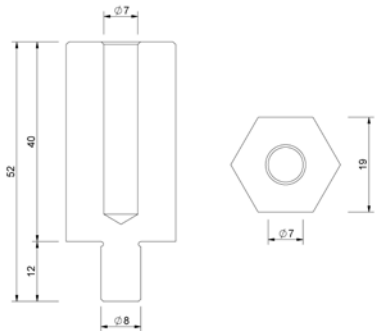


SitaTurbo

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

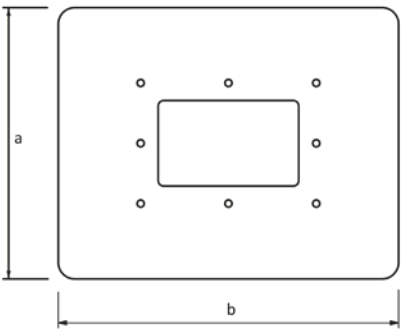
Connecting sleeve Bitumen



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

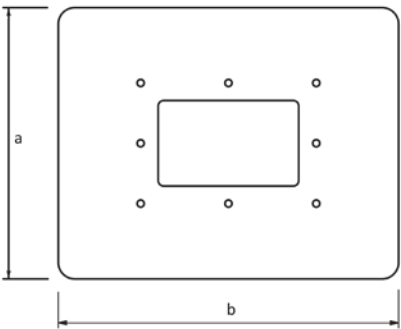


SitaTurbo

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

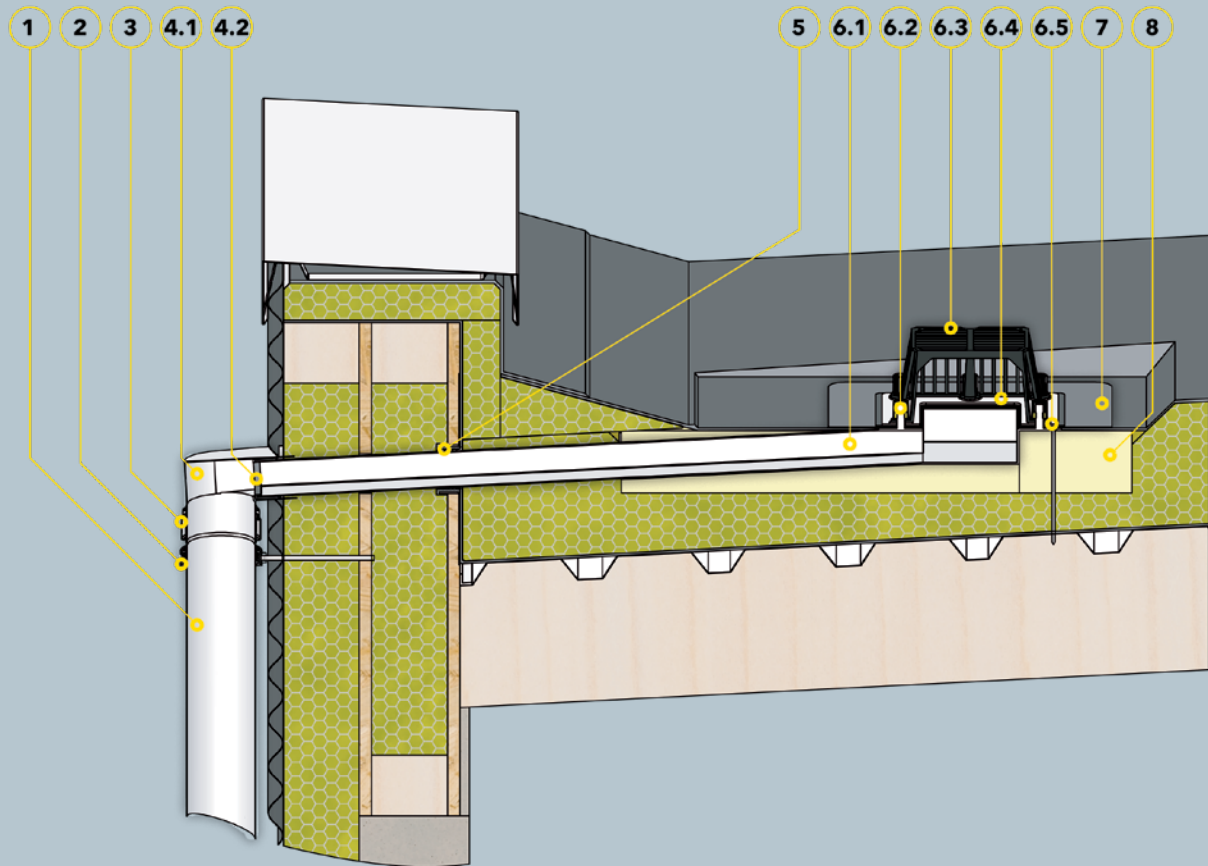


a (mm)	b (mm)	Article number
495	620	11 91 xx

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

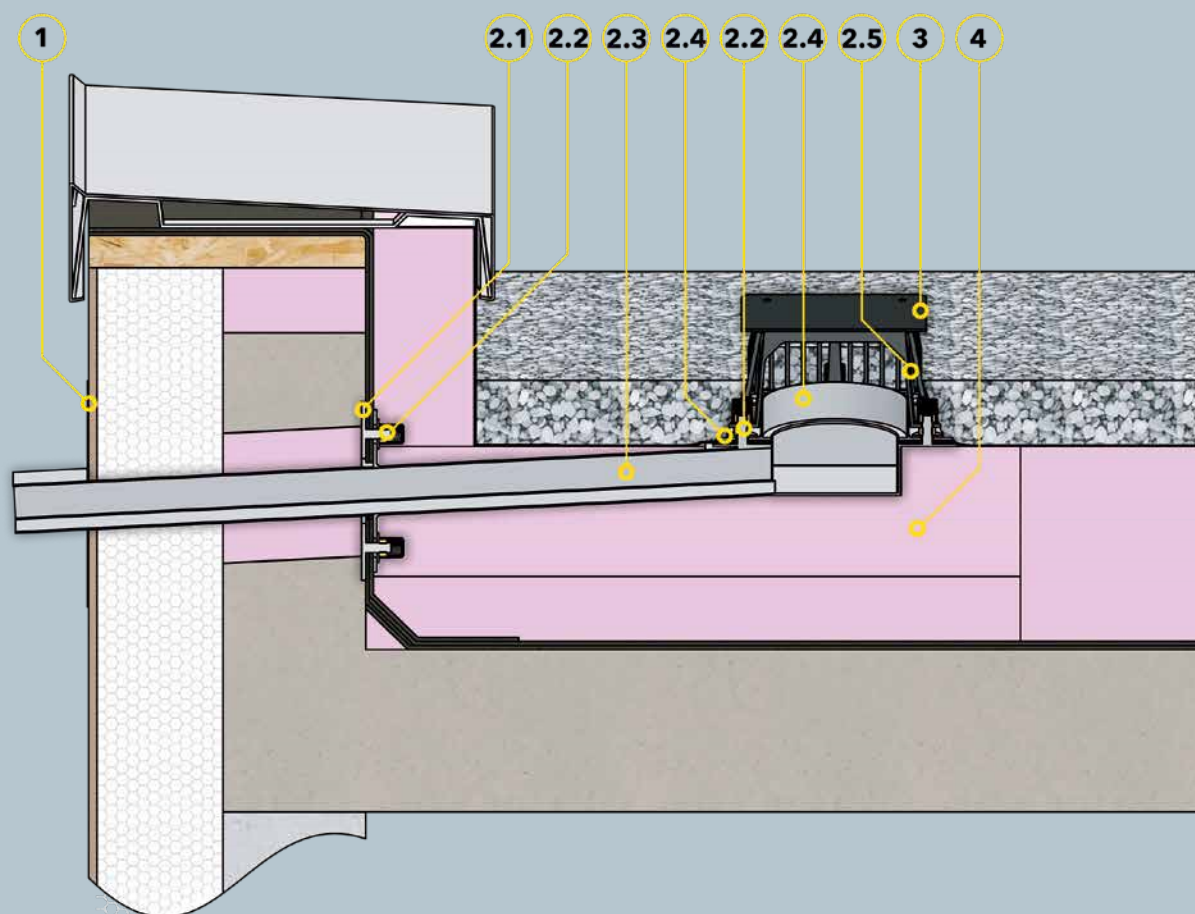
- 6.2 Washers, nuts and protective caps
- 6.3 Dome grate
- 6.4 Loose flange
- 6.5 Sealing sleeves

- 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



Components

- 1** SitaTurbo cladding cover plate

- SitaTurbo inverted roof consisting of:**

- ## 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

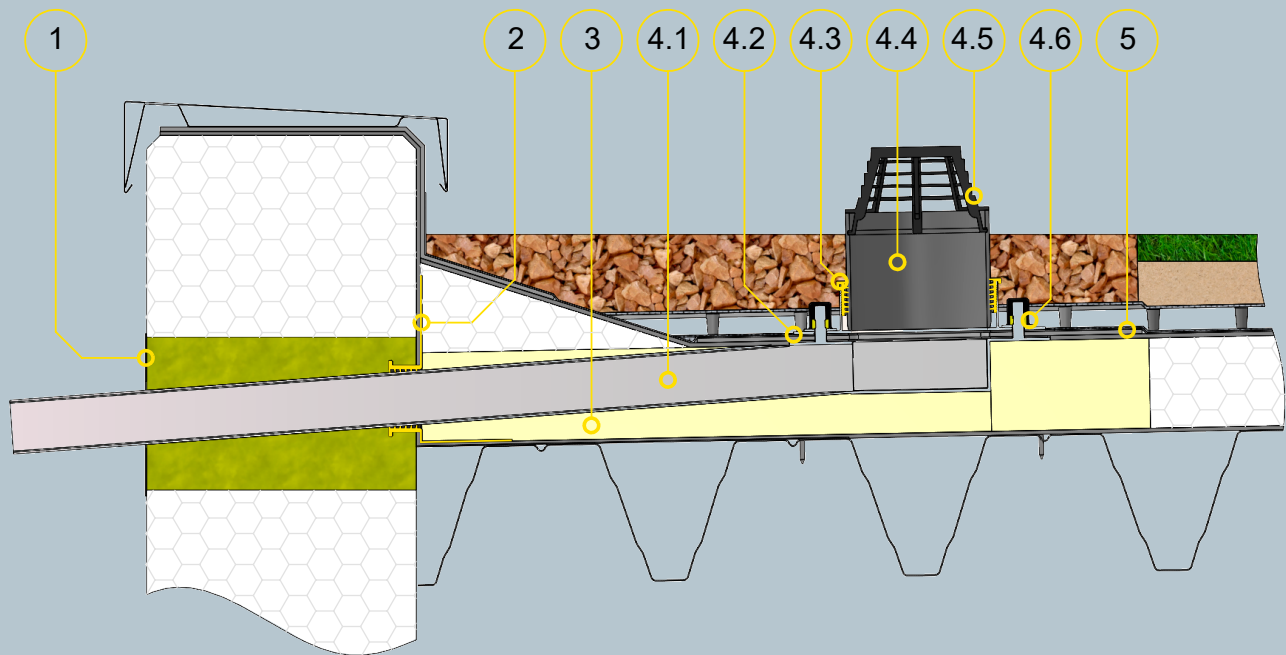
Roof structure

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

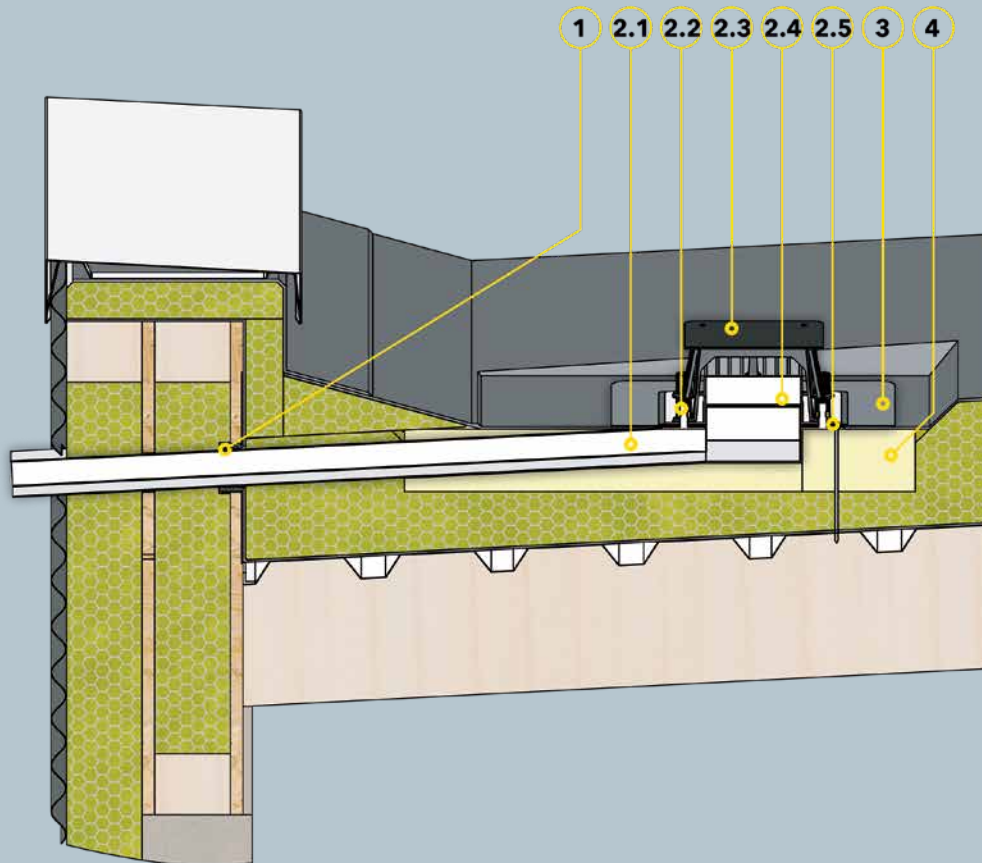
Roof structure

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

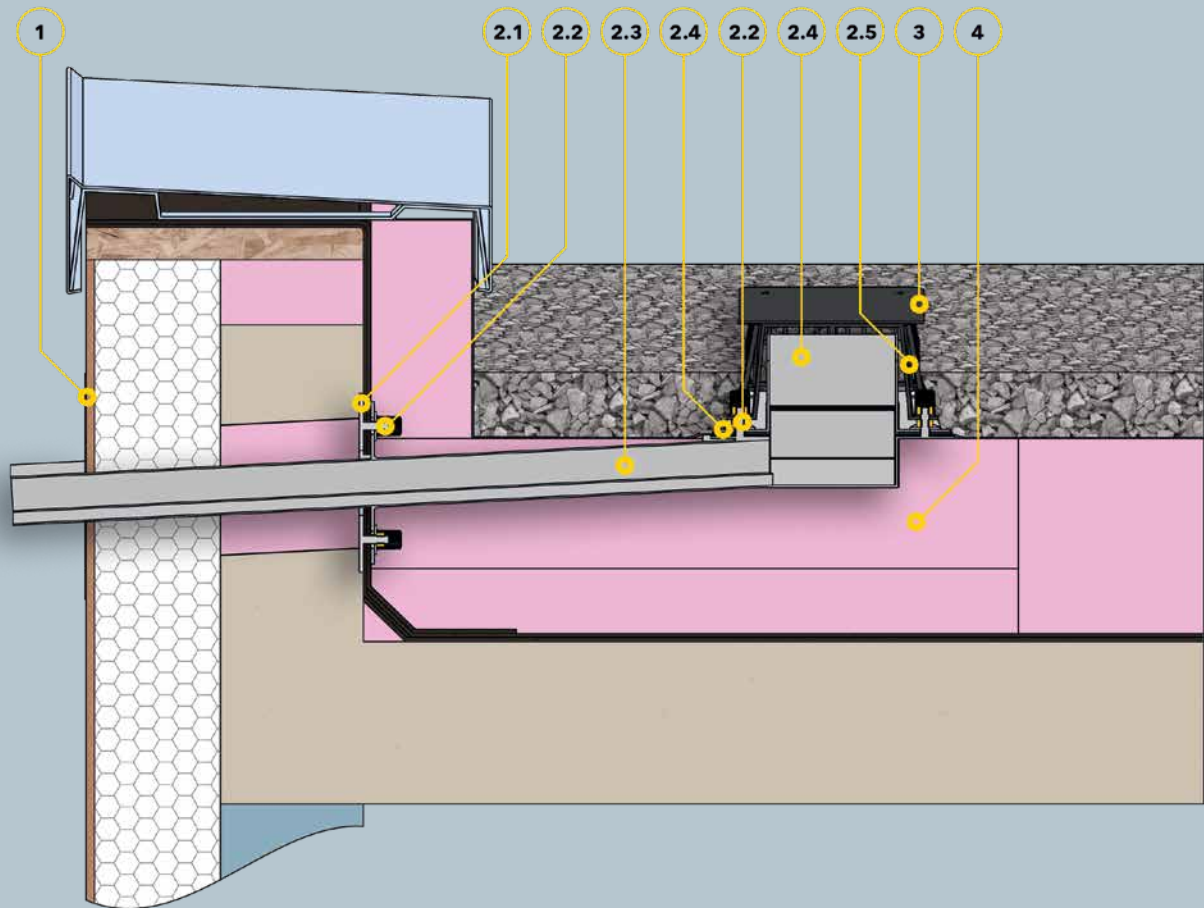
Roof structure

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

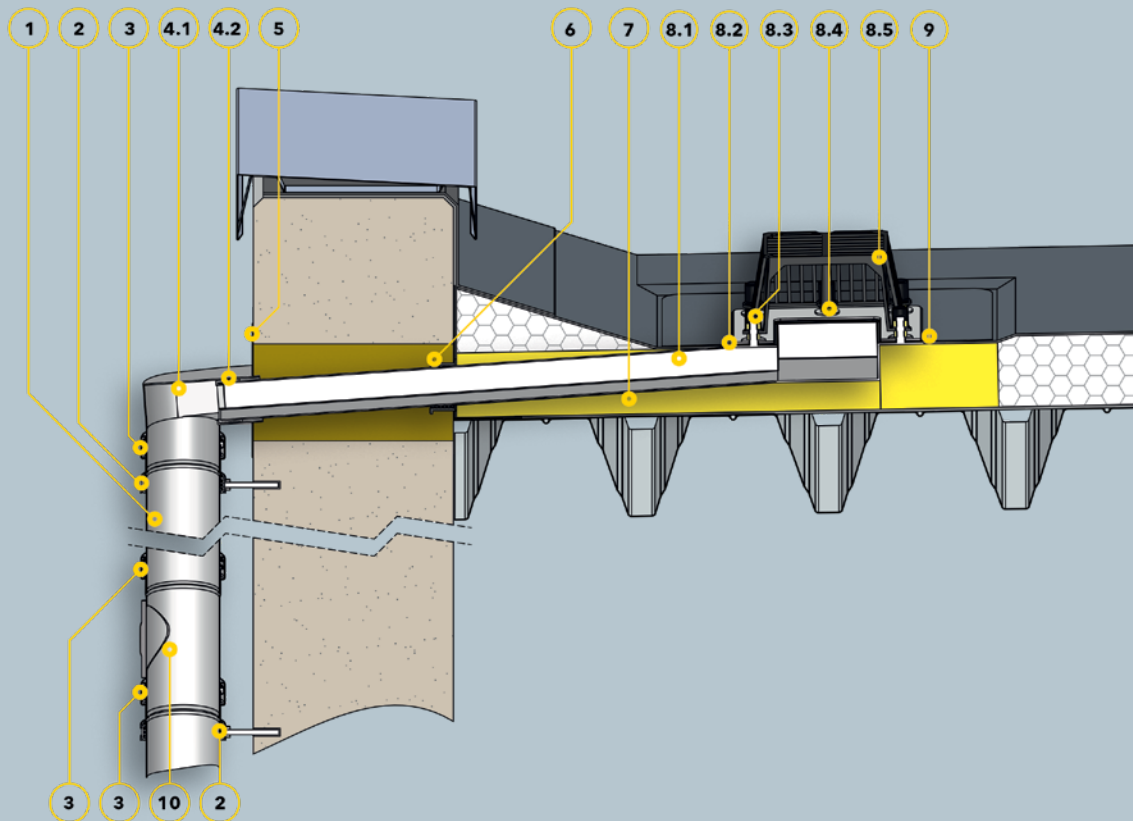
3 SitaTurbo cover plate

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

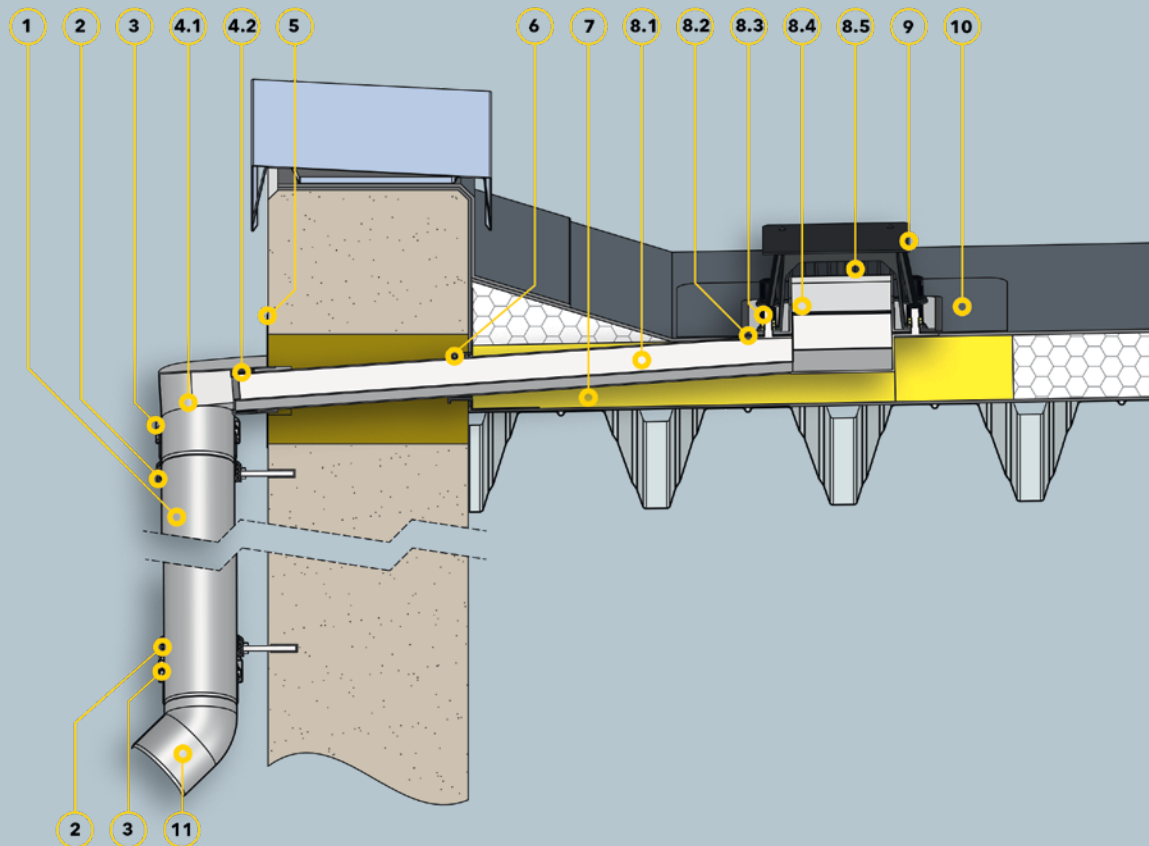
Roof structure

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



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°

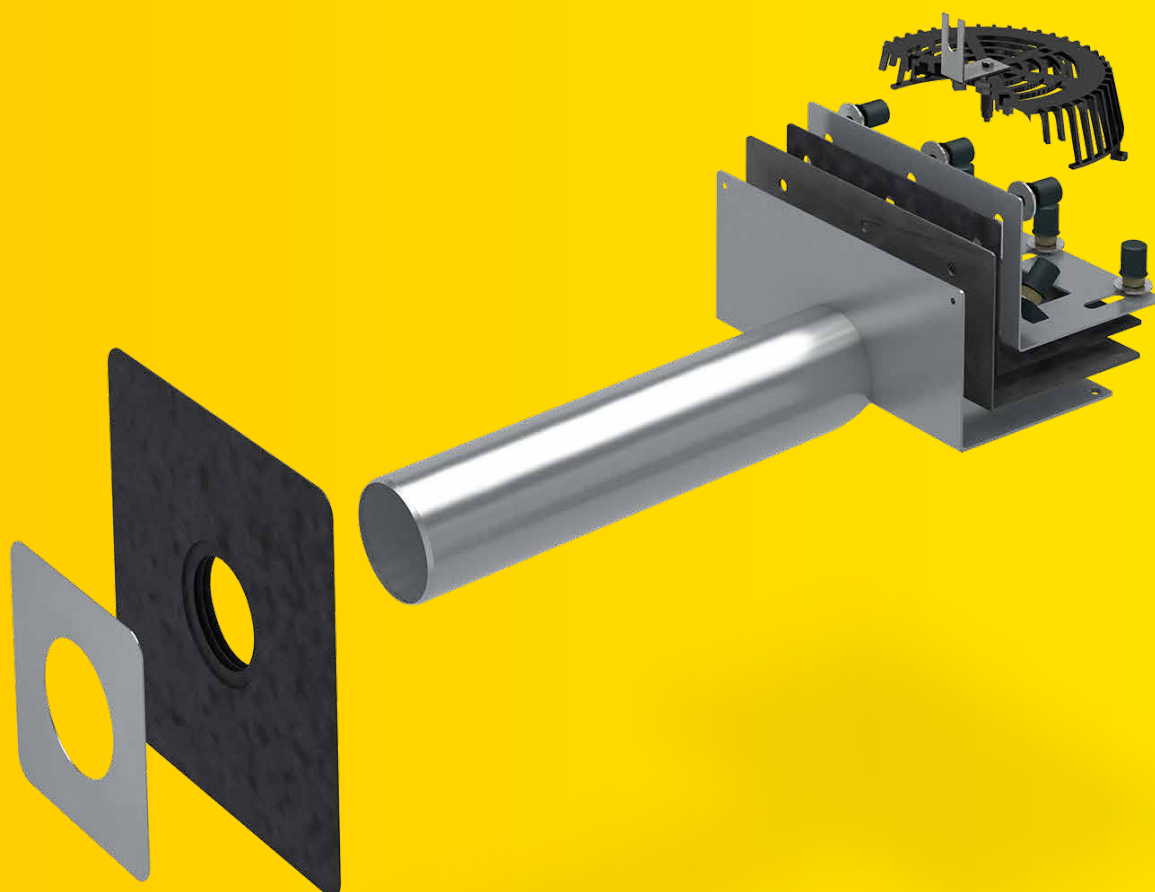
Roof structure

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

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

SitaRondo

With round pipe. Flexible connection.



- + For main and emergency drainage
- + Special lengths possible
- + Direct connection to the SitaPipe stainless steel pipe system possible
- + Single-part loose flange loose retaining flange



SitaRondo



SitaRondo
Loose retaining flange



SitaMore
Vapour barrier plate



SitaAttika
Cladding cover plate



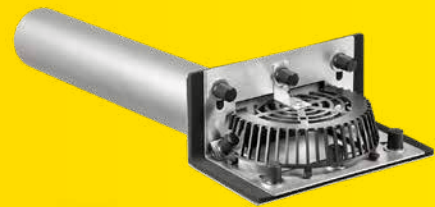
SitaMore
Sealing sleeve

SitaRondo

Product features at a glance:

Product features

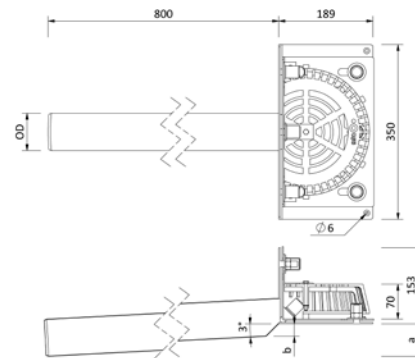
Applications	For main and emergency drainage through the parapet of flat and slightly pitched, used and unused roof surfaces
Material	Rust-proof stainless steel
Temperature resistance, min.	-20 °C
Temperature resistance, max.	80 °C
Material class	Euroclass A1 /A1 non-flammable
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable
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.



Tender text

SitaRondo parapet outlet, made of stainless steel, material number 1.4301, with run-off channel 800 mm, inclination 3°, in sizes DN 50, DN 70, DN 100 and DN 125, with screw-on flange construction for clamping of bitumen, plastic or EPDM roofing membranes, with sealing sleeves, M12 threaded bolt, washers, nuts, protective caps and dome grate, supply and installation to professional standards.

Technical drawing

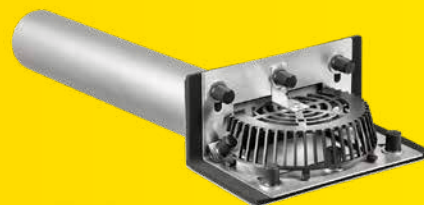


DN	OD*	a (mm)	b (mm)	Opening/Core borehole (mm)	Article number
50	50	57	16	110	18 20 99
70	75	65	25	135	18 22 99
100	110	76	37	170	18 24 99
125	125	81	42	185	18 26 99

* OD = Outer diameter (mm)

Discharge rate according to DIN EN 1253-2

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.2
70	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.3	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
100	0.3	0.5	0.7	0.8	1.2	1.6	1.9	2.2	2.4	2.7	2.9	3.3	3.6	3.8	4.0	4.3	4.5	4.5	4.5	4.5
125	0.2	0.3	0.5	0.8	1.2	1.5	1.7	2.0	2.4	2.7	3.1	3.5	4.0	4.3	4.6	4.8	5.0	5.3	5.6	5.6



Discharge rate according to DIN EN 1253-2 with 2-metre downpipe

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3
70	0.2	0.3	0.4	0.7	0.9	1.0	1.2	1.3	1.4	2.0	2.5	2.6	2.8	2.9	3.0					
100	0.2	0.4	0.7	1.0	1.3	1.5	1.7	1.9	2.3	2.6	3.0	3.3	3.6	3.9						
125	0.2	0.4	0.7	1.0	1.4	1.8	2.2	2.5	2.9	3.2	3.9	4.3	4.7							

Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	0.1	0.2	0.3	0.5	0.6	0.7	0.9	0.9	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70	0.1	0.2	0.4	0.6	0.7	1.0	1.2	1.6	1.9	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
100	0.2	0.3	0.6	0.8	1.1	1.5	1.8	2.2	2.5	3.1	3.7	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
125	0.2	0.3	0.7	1.0	1.3	1.7	2.1	2.7	3.2	3.7	4.1	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9

SitaRondo

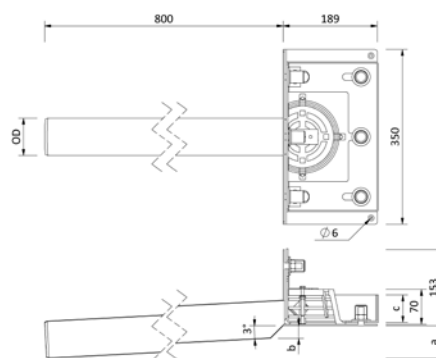
Loose retaining flange



Tender text

SitaRondo with loose retaining flange, made of rust-proof stainless steel, material number 1.4301, with screw-on flange construction, nominal widths DN 50, DN 70, DN 100 and DN 125, 800 mm pipe length, inclination 3°, with loose retaining flange and two sealing sleeves for clamping bitumen, plastic or EPDM roofing membranes. With M12 threaded bolt, washers, nuts, protective caps and dome grate, supply and installation to professional standards.

Technical drawing



DN	OD*	a (mm)	b (mm)	c (mm)	Article number
50	50	57	16	100	18 20 30 99
				35	18 20 11 99
				55	18 20 20 99
70	75	65	25	100	18 22 30 99
				35	18 22 10 99
				55	18 22 20 99
100	110	76	37	100	18 24 30 99
				35	18 24 10 99
				55	18 24 20 99
125	125	81	42	100	18 26 30 99
				35	18 26 10 99
				55	18 26 20 99

* OD = Outer diameter (mm)

Discharge rate according to DIN EN 1253-2 with retaining element for emergency drainage

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	0.5	1.1	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70	0.8	1.2	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
100	0.8	1.5	2.0	2.4	2.8	3.1	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.0	5.2	5.4	5.6	5.8	5.9
125	0.8	1.6	2.3	2.8	3.3	3.7	4.0	4.4	4.8	5.1	5.4	5.6	5.9	6.1	6.4	6.7	6.9	7.2	7.4	7.4

SitaRondo

Loose retaining flange

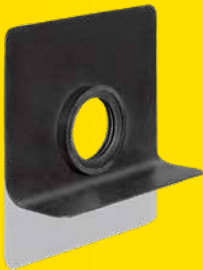


Discharge rate with 3-metre fall pipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	0.8	1.3	1.9	2.8	3.6	4.6	5.4													
70	0.8	1.3	1.6	1.9	2.5	3.5	4.5	5.8	7.0	8.3	9.3	10.8	12.0	13.7	15.0	15.8				
100	0.8	1.6	2.1	2.5	2.8	3.4	4.0	4.6	5.5	6.6	8.0	9.5	11.0	12.7	14.3	16.0	17.7	19.4	21.6	
125	0.6	1.6	2.3	2.9	3.4	3.8	4.3	4.8	5.4	6.3	7.5	8.6	10.0	11.3	13.3	15.0	17.0	19.5	21.3	

SitaMore

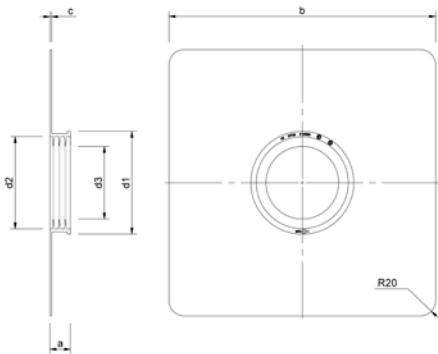
Vapour barrier plate



Tender text

SitaMore vapour barrier plate flex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 50, DN 70, DN 100, DN 125 and DN 150, with a multi-lip integrated sealing area, supply and install to professional standards.

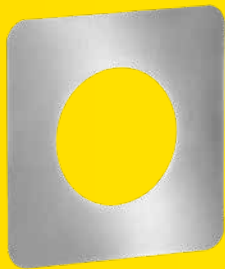
Technical drawing



DN	a (mm)	b (mm)	c (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Article number
50	27	352	2	76	62	44	18 50 90
70				105	91	67	18 70 90
100				136	122	96	18 00 90
125	28	400	3	159	145	119	18 12 90
150				195	181	153	18 60 90

SitaAttika

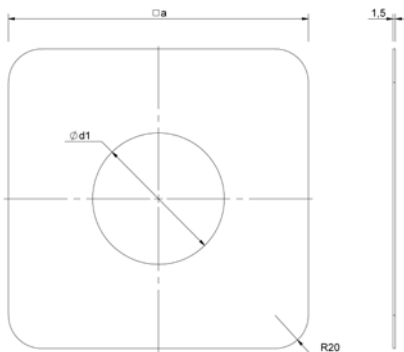
Cladding cover plate



Tender text

SitaAttika cladding cover plate, made of rust-proof stainless steel, material number 1.4301, to cover the parapet or wall opening in sizes DN 50 to DN 200, material thickness 1.5 mm, supply and install to professional standards.

Technical drawing



DN	a (mm)	d1 (mm)	Article number
50	155	54	E 18 90 25
70	180	79	E 18 90 26
100	215	114	E 18 90 27
125	230	129	E 18 90 28
150	265	165	E 18 90 29
200	303	203	E 18 90 45

SitaMore

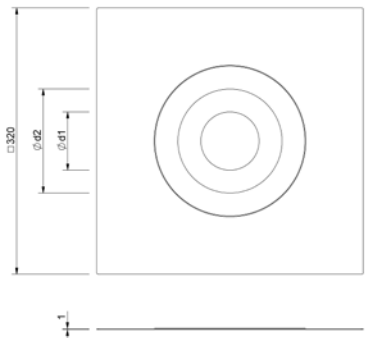
Sealing sleeve



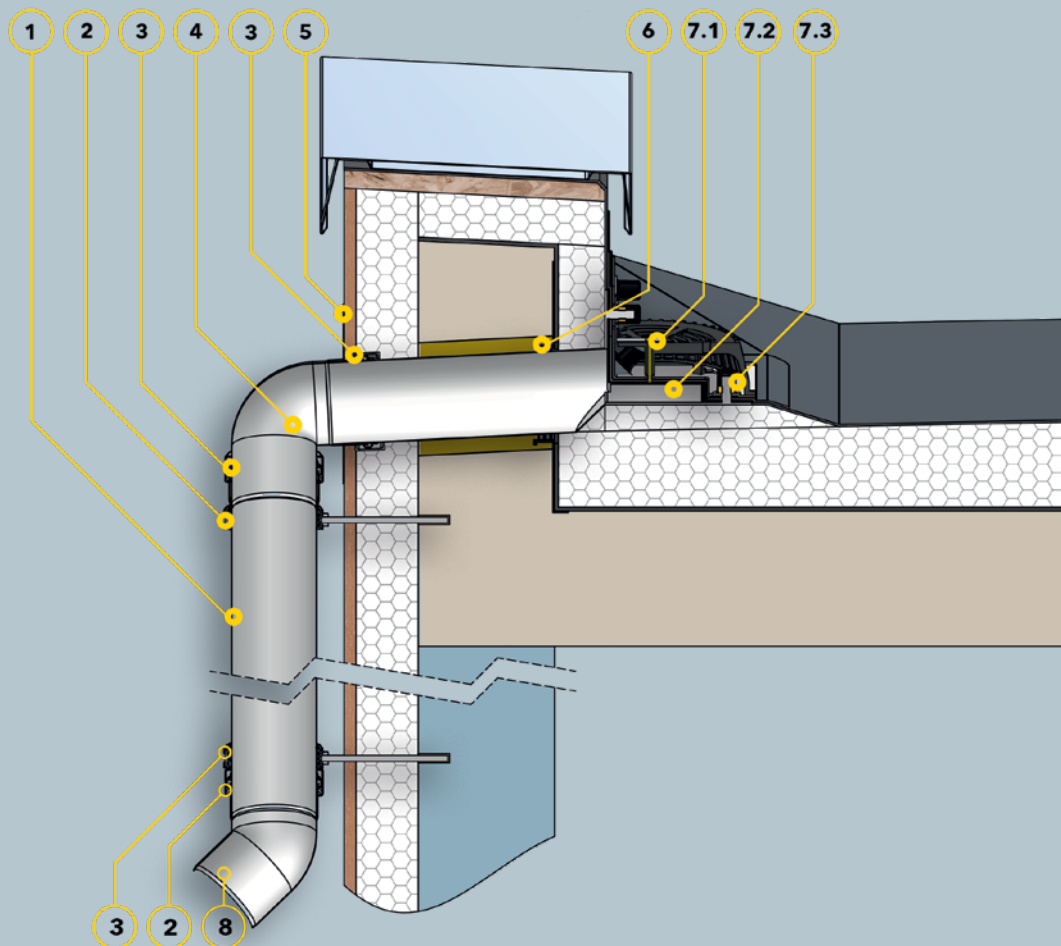
Tender text

SitaMore sealing sleeve for WDVS, made of fleece-butyl, one-part render-compatible air sealing sleeve designed to be concealed in plastic, for the rapid and airtight sealing of pipe fairleads in the thermal insulation composite system according to DIN 4108-7 and GEG, in sizes DN 70 and DN 100, measuring 320 x 320 mm, with highly flexible EPDM seal, self-adhesive render-compatible fleece butyl collar for permanent bonding to the substrate (adhesion primer may be necessary) and between the fleece bonding surface and the render, supply and install to professional standards.

Technical drawing



DN	d1 (mm)	d2 (mm)	Article number
70	45	110	18 00 75
100	70	125	18 00 11



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaPipe stainless steel pipe clamp
- 3 SitaPipe stainless steel safety clamp
- 4 SitaPipe stainless steel bend 87.5°
- 5 SitaAttika cladding cover plate
- 6 SitaMore vapour barrier plate flex

SitaRondo consisting of:

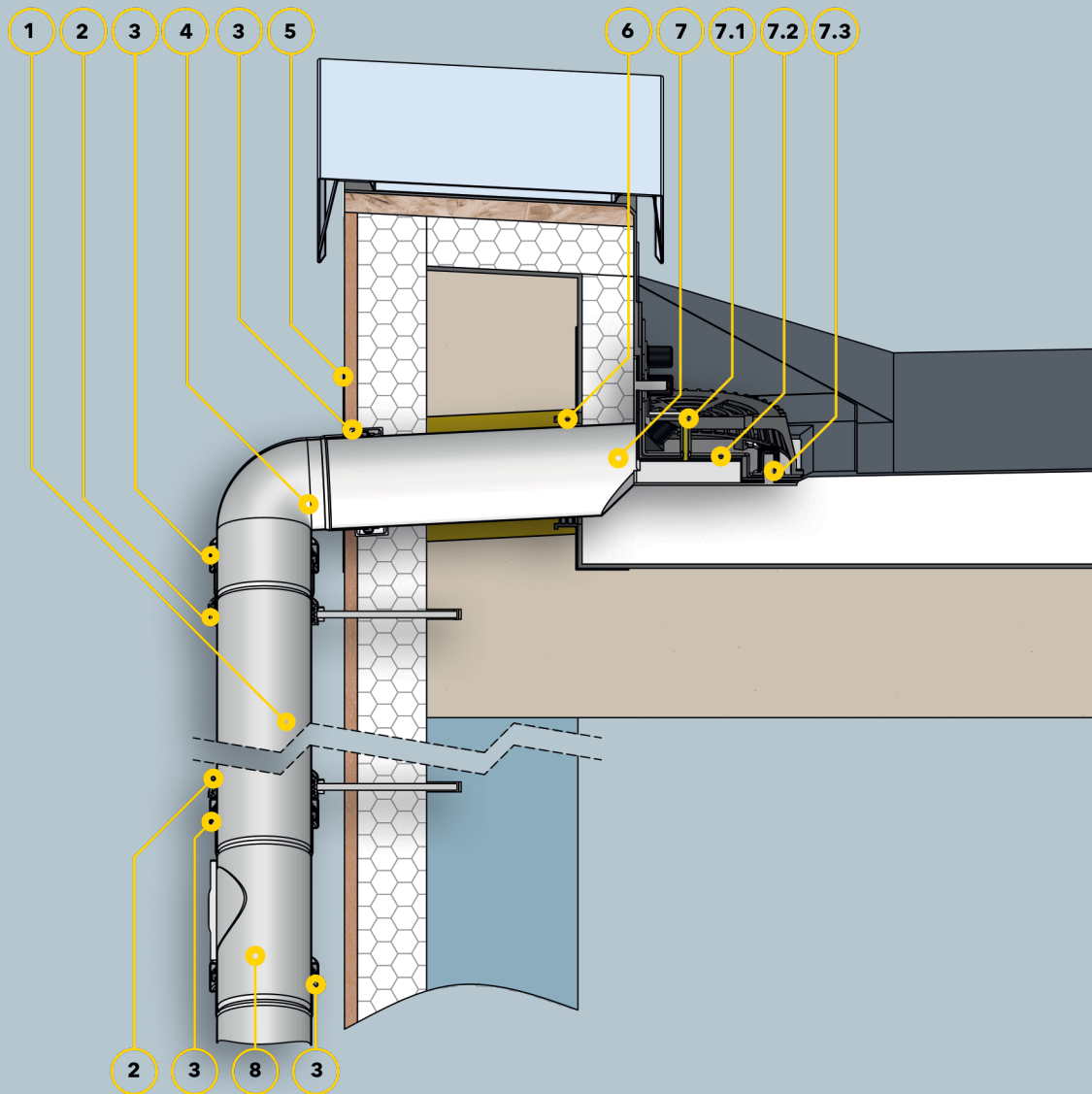
- 7.1 Dome grate with mounting bracket
- 7.2 Loose flange and sealing sleeves
- 7.3 Washers, nuts and protective caps

- 8 SitaPipe stainless steel bend 45°

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



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaPipe stainless steel pipe clip
- 3 SitaPipe stainless steel safety clamp
- 4 SitaPipe stainless steel bend 87.5°
- 5 SitaAttika cladding cover plate
- 6 SitaMore vapour barrier flex

SitaRondo consisting of:

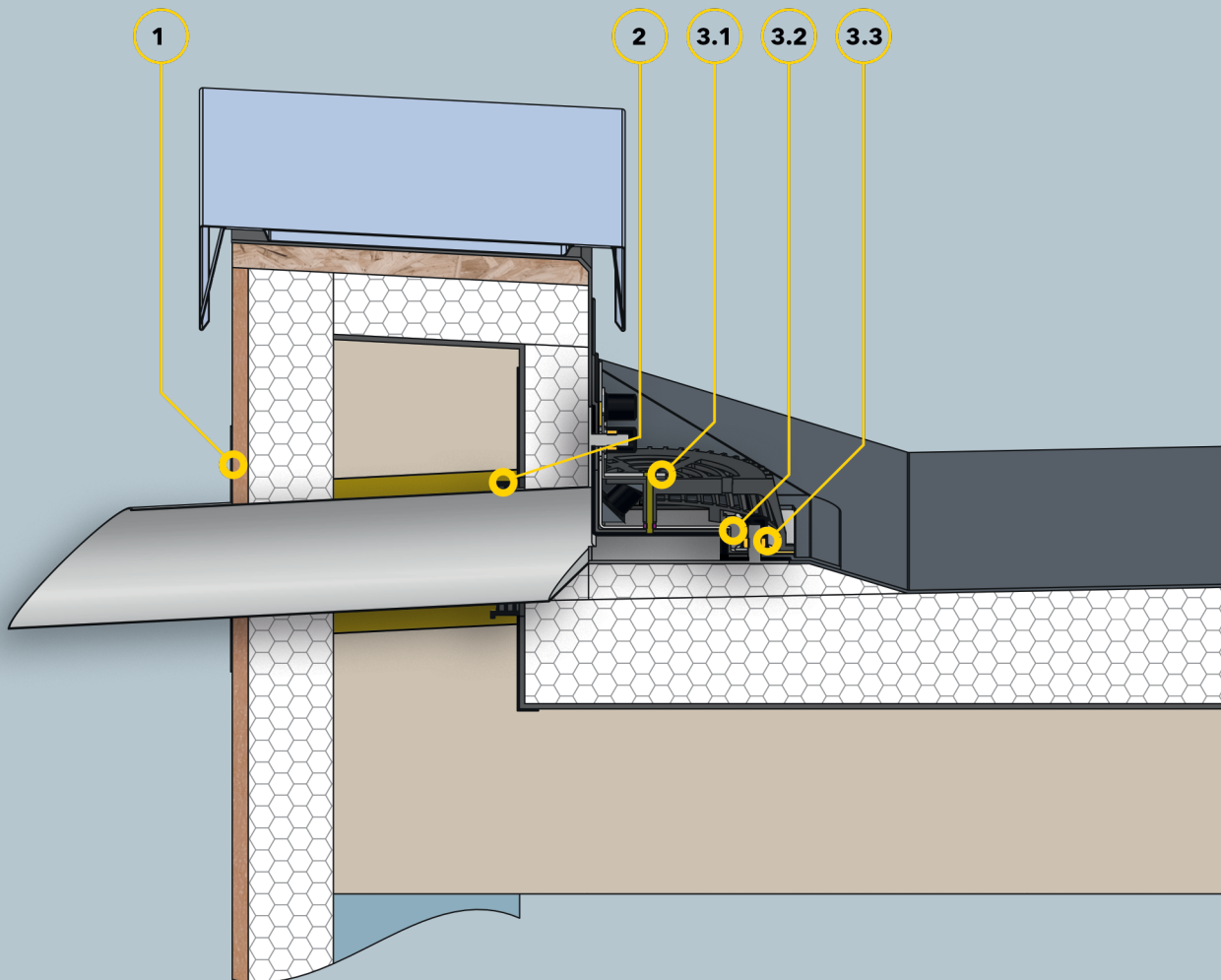
- 7.1 dome grate with fixing bracket
- 7.2 Loose flange with sealing collars
- 7.3 Washers, nuts and protective caps

- 8 SitaPipe stainless steel cleaning pipe

Roof structure

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

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



Components

- 1 SitaAttika cladding cover plate
- 2 SitaMore vapour barrier plate flex

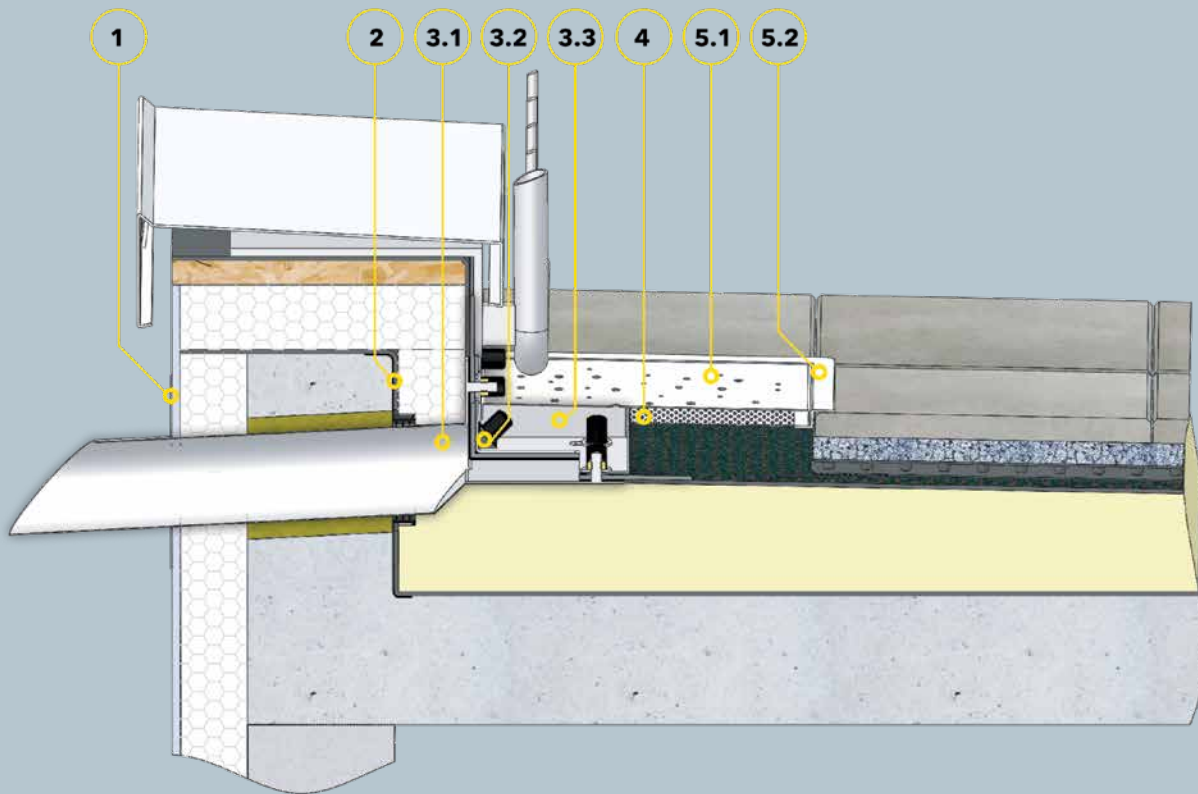
SitaRondo, consisting of:

- 3.1 Dome grate with mounting bracket
- 3.2 Loose flange with sealing sleeves
- 3.3 Washers, nuts and protective caps

Roof structure

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

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



Components

- 1 SitaAttika cladding cover plate
- 2 SitaMore vapour barrier plate flex

SitaRondo with loose retaining flange consisting of:

- 3.1 SitaRondo
- 3.2 Screws, washers and seals
- 3.3 Loose retaining flange

- 4 SitaDrain® gravel strip

SitaDrain® profile frame consisting of:

- 5.1 Inspection grate
- 5.2 Profile frame

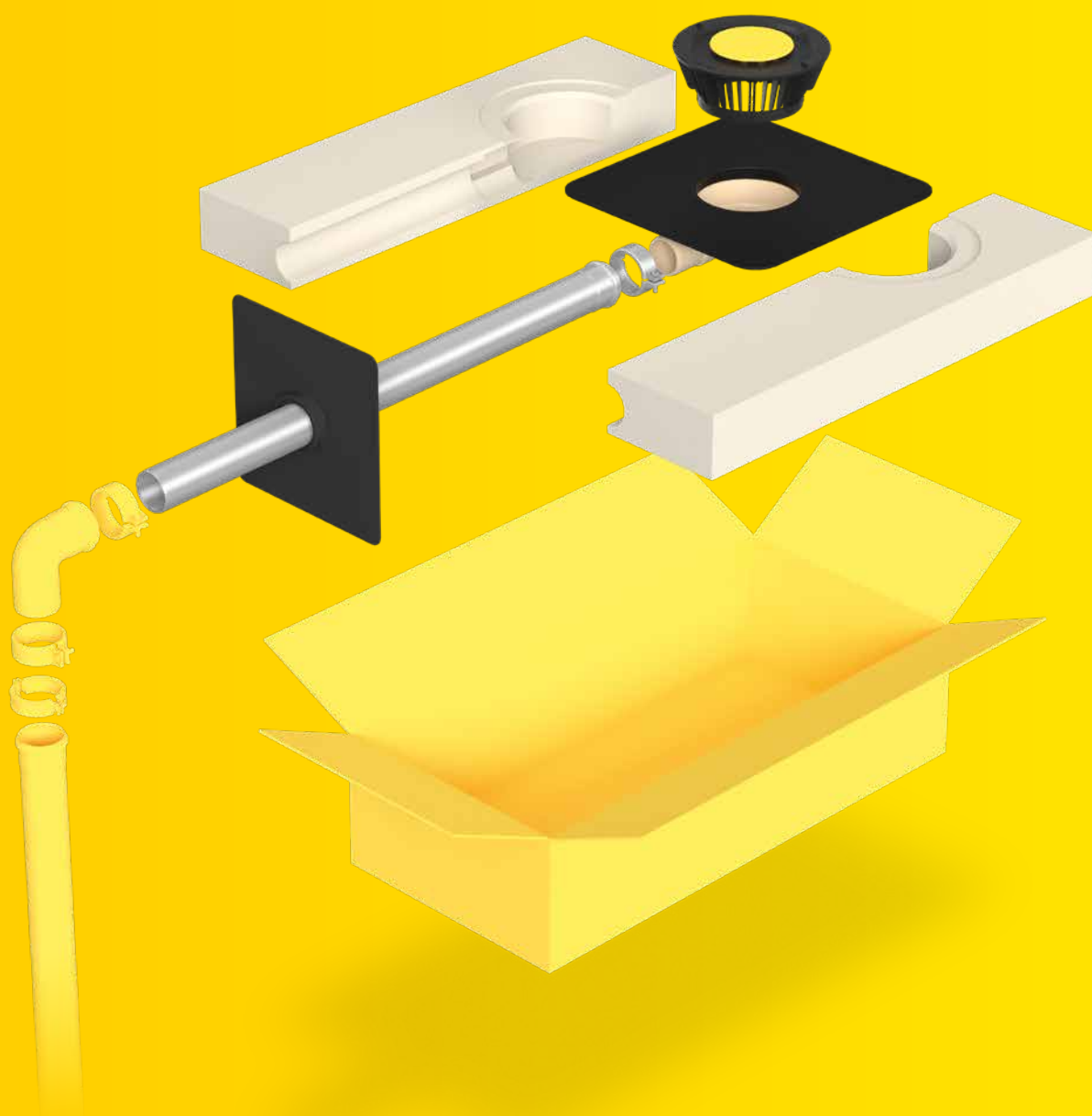
Roof structure

Non-ventilated roof structure according to the general rules of engineering with slab cover in split bed with:

- + Slab paving
- + Split bed
- + Filter fleece
- + Surface drainage
- + Building protection mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet opening with joint tape

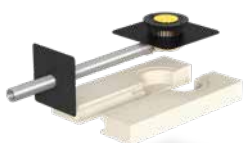
Sitalndra

The new dimension of outlet installation.

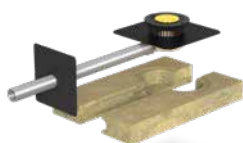


Sitalndra

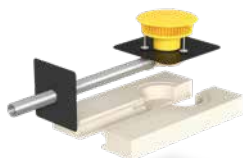
- + Available as a complete set: No additional procurement work
- + Very low installation height: Minimal weakening of the thermal insulation
- + Connection to the SitaPipe stainless steel pipe system possible
- + Inclination 1°



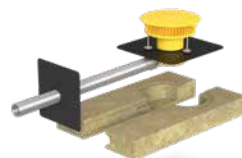
Sitalndra
Main drainage set
polyurethane
insulation body



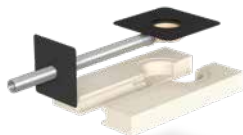
Sitalndra
Main drainage set
mineral wool
insulation body



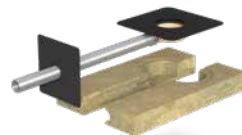
Sitalndra
Emergency drainage
set polyurethane
insulation body



Sitalndra
Emergency drainage
set mineral wool
insulating body



Sitalndra
without dome grate
polyurethane
insulation body



Sitalndra
without dome grate
mineral wool
insulating body



SitaMore
Retaining ring



SitaMore
Terrace kit



SitaMore
Vapour barrier plate



SitaAttika
Cladding cover plate



SitaMore
Sealing sleeve



SitaMore
Adapter

Sitalndra

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	Polyurethane
Design	angled
Temperature resistance, min.	-40 °C
Temperature resistance, max.	80 °C
Material class	Euroclass E / B2 normal flammability, Euroclass A1 / A1 non-flammable
Properties	+ Thermally insulated + Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable
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

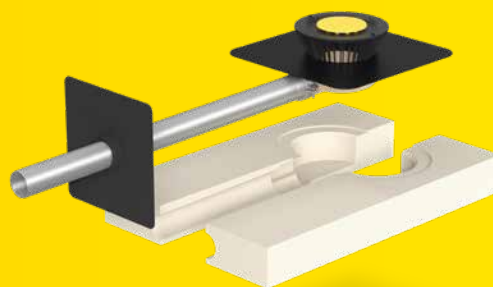


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Sitalndra

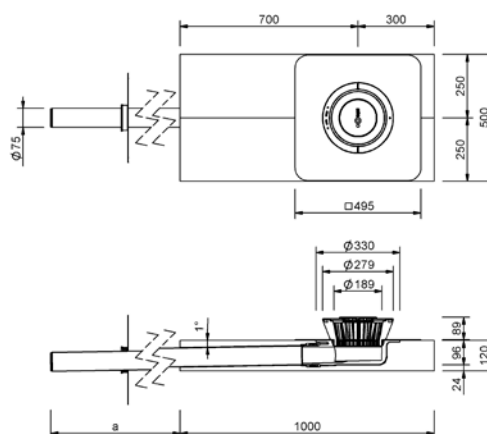
Main drainage set polyurethane insulation body



Tender text

Sitalndra parapet outlet, angled, made of polyurethane, thermally insulated, according to DIN EN 1253-2, in size DN 70, discharge rate 5.8 l/s at 35 mm retaining height, with stainless steel connection pipe and safety clamp, vapour barrier plate flex for secure connection to the vapour barrier and two-part insulating body made of polyurethane with a thermal conductivity $\lambda=0.0249$ W/mK and a compressive strength of 200 kPa, size: 500 x 1000 x 120 mm. For conventional drainage, with large foamed-in connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and to hold the supplied dome grate, supply and install to professional standards.

Technical drawing



DN	OD*	a (mm)	Article number
70	75	520	10 73 xx
		1020	10 73 15 xx
		1520	10 73 20 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.6	1.4	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.5	3.5	3.5

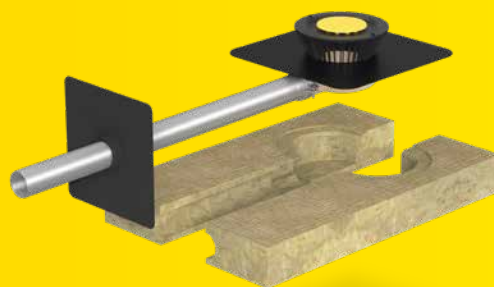
Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.6	1.5	2.3	2.6	2.9	4.4	5.8	7.0	8.2	9.5	10.8	11.5	12.2	12.6	12.9	13.8	14.7	14.7	14.7	14.7

Sitalndra

Main drainage set

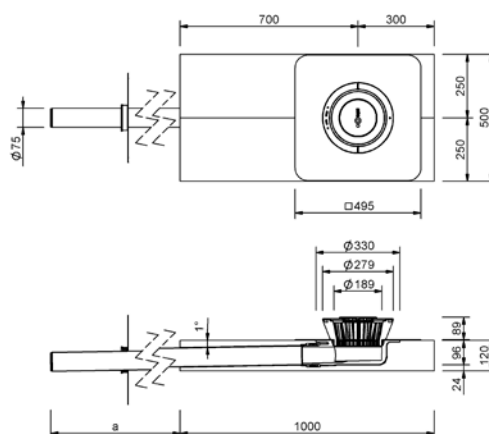
mineral wool insulation body



Tender text

Sitalndra parapet outlet, angled, made of polyurethane, thermally insulated, according to DIN EN 1253-2, in size DN 70, discharge rate 5.8 l/s at 35 mm retaining height, with stainless steel connection pipe and safety clamp, vapour barrier plate flex for secure connection to the vapour barrier and two-part insulating body made of mineral wool with a thermal conductivity $\lambda=0.040$ W/mK and a compressive strength of 70 kPa, size: 500 x 1000 x 120 mm. For conventional drainage, with large foamed-in connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and to hold the supplied dome grate, supply and install to professional standards.

Technical drawing



DN	OD*	Support length	Article number
70	75	520	10 83 xx
		1020	10 83 15 xx
		1520	10 83 20 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.6	1.4	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.5	3.5	3.5

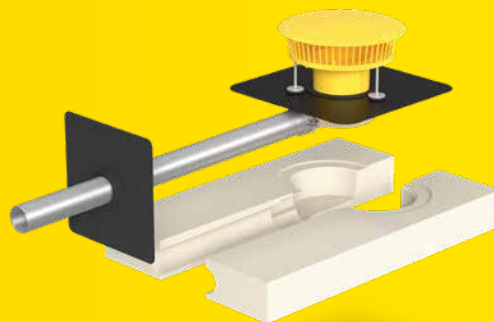
Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.6	1.5	2.3	2.6	2.9	4.4	5.8	7.0	8.2	9.5	10.8	11.5	12.2	12.6	12.9	13.8	14.7	14.7	14.7	14.7

Sitalndra

Emergency drainage set

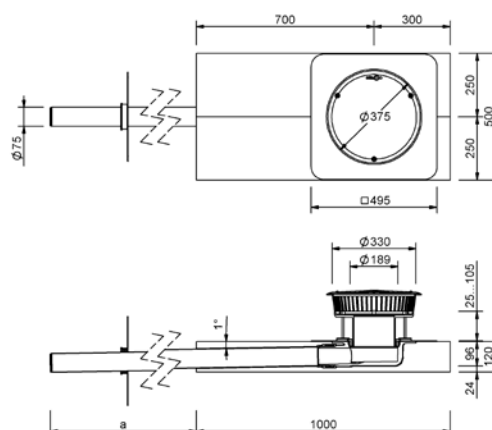
polyurethane insulation body



Tender text

Sitalndra parapet outlet, angled, made of polyurethane, thermally insulated, according to DIN EN 1253-2, in size DN 70, discharge rate 3.6 l/s at 35 mm retaining height as waterspout and 9.9 l/s at 35 mm retaining height and connected DN 70 downpipe, with stainless steel connection pipe and safety clamp, vapour barrier plate for secure connection to the vapour barrier and two-part insulating body made of polyurethane with a thermal conductivity $\lambda = 0.0249 \text{ W/mK}$ and a compressive strength of 200 kPa, size: 500 x 1000 x 120 mm. For conventional drainage, with large foamed-in connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and to hold the supplied retaining element, supply and install to professional standards.

Technical drawing



DN	OD*	Support length	Article number
70	75	520	10 74 xx
		1020	10 74 15 xx
		1520	10 74 20 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2 with retaining element for emergency drainage

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.8	1.9	3.0	3.2	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

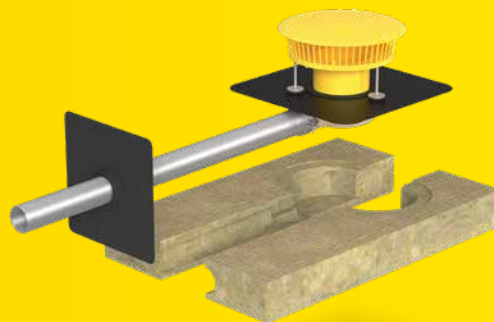
Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.8	1.9	2.9	4.0	5.1	7.5	9.9	11.6	13.2	14.2	15.2	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4

Sitalndra

Emergency drainage set

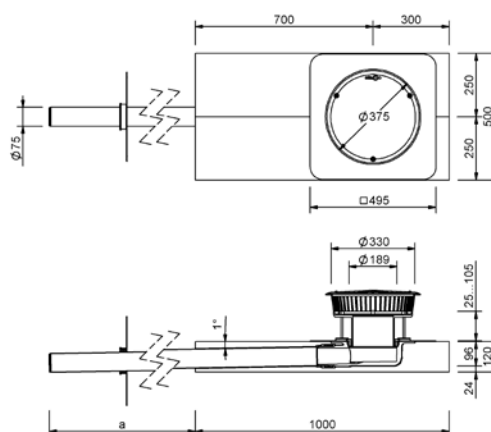
mineral wool insulating body



Tender text

Sitalndra parapet outlet, angled, made of polyurethane, thermally insulated, according to DIN EN 1253-2, in size DN 70, discharge rate 3.6 l/s at 35 mm retaining height as waterspout and 9.9 l/s at 35 mm retaining height and connected DN 70 downpipe, with stainless steel connection pipe and safety clamp, vapour barrier plate for secure connection to the vapour barrier and two-part insulating body made of mineral wool with a thermal conductivity $\lambda=0.040$ W/mK and a compressive strength of 70 kPa, size: 500 x 1000 x 120 mm. For conventional drainage, with large foamed-in connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and to hold the supplied retaining element, supply and install to professional standards.

Technical drawing



DN	OD*	Support length	Article number
70	75	520	10 84 xx
		1020	10 84 15 xx
		1520	10 84 20 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

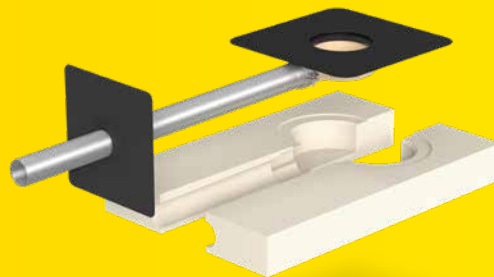
Discharge rate according to DIN EN 1253-2 with retaining element for emergency drainage

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.8	1.9	3.0	3.2	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.8	1.9	2.9	4.0	5.1	7.5	9.9	11.6	13.2	14.2	15.2	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4

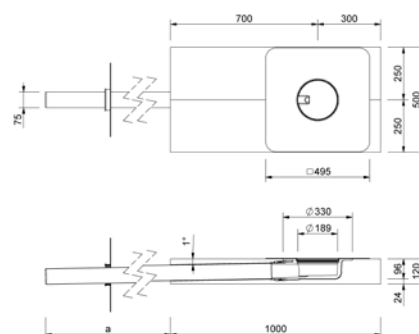
Sitalndra without dome grate polyurethane insulation body



Tender text

Sitalndra without dome grate, angled, made of polyurethane, thermally insulated, according to DIN EN 1253-2, in size DN 70, with stainless steel connection pipe and safety clamp, vapour barrier plate flex for secure connection to the vapour barrier and two-part insulating body made of polyurethane with a thermal conductivity $\lambda=0.0249$ W/mK and a compressive strength of 200 kPa, size: 500 x 1000 x 120 mm. With large foamed-in connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve. Only to be used in combination with an attachment (e.g. dome grate, retaining element, etc.) to prevent foreign bodies from entering the pipework, supply and install to professional standards.

Technical drawing



DN	OD*	a (mm)	Article number
70	75	520	10 75 xx
		1020	10 75 15 xx
		1520	10 75 20 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

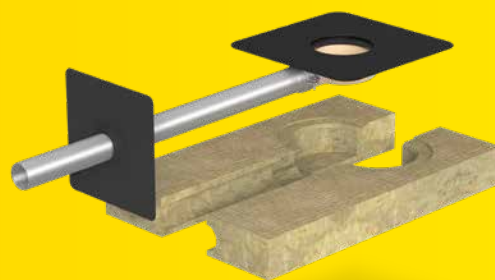
Discharge rate according to DIN EN 1253-2 with retaining element for emergency drainage

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.8	1.9	3.0	3.2	3.4	3.5	3.6	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.8	1.9	2.9	4.0	5.1	7.5	9.9	11.6	13.2	14.2	15.2	15.4	15.4							

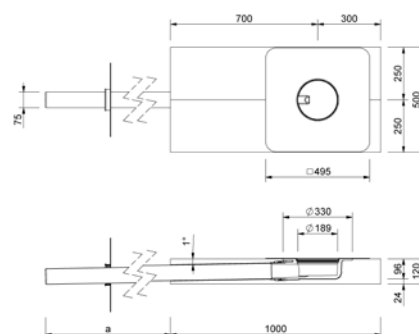
Sitalndra without dome grate mineral wool insulating body



Tender text

Sitalndra without dome grate, angled, made of polyurethane, thermally insulated, according to DIN EN 1253-2, in size DN 70, with stainless steel connection pipe and safety clamp, vapour barrier plate flex for secure connection to the vapour barrier and two-part insulating body made of mineral wool with a thermal conductivity $\lambda=0.04$ W/mK and a compressive strength of 70 kPa, size: 500 x 1000 x 120 mm. With large foamed-in connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve. Only to be used in combination with an attachment (e.g. dome grate, retaining element, etc.) to prevent foreign bodies from entering the pipework, supply and install to professional standards.

Technical drawing



DN	OD*	a (mm)	Article number
70	75	520	10 85 xx
		1020	10 85 15 xx
		1520	10 85 20 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2 with retaining element for emergency drainage

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.8	1.9	3.0	3.2	3.4	3.5	3.6	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.8	1.9	2.9	4.0	5.1	7.5	9.9	11.6	13.2	14.2	15.2	15.4	15.4							

SitaMore

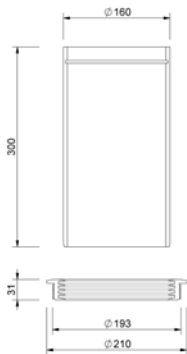
Retaining ring



Tender text

SitaMore retaining ring for emergency drainage, made of PE-HD for SitaIndra, SitaStandard, SitaMulti roof outlets, length 300 mm, with sealing ring and lubricant, supply and install to professional standards.

Technical drawing



Compatibility	Damming height from-to (mm)	Article number
SitaIndra, SitaStandard, SitaMulti	20-260	10 90 87

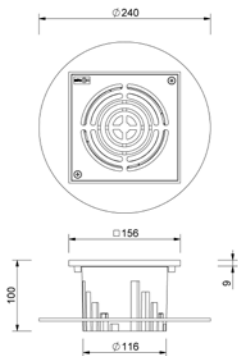
SitaMore Terrace kit



Tender text

SitaMore terrace kit, made of aluminium, for roof outlets and extension units with connection sleeve of choice of the SitaStandard, SitaTrendy, SitaIndra, SitaSani® 63, SitaSani® 90, SitaSani® 105 and SitaSani® 165 series. Consisting of height adjustment ring, housing (height-adjustable from 34 - 100 mm) and end grate with built-in slots to hold a downpipe in size DN 50 and DN 70, supply and install to professional standards.

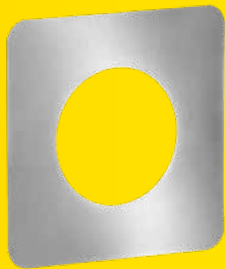
Technical drawing



Compatibility	Height adjustment min (mm)	Height setting, max (mm)	Article number
SitaStandard, SitaTrendy, SitaIndra, SitaSani 63, SitaSani 90, SitaSani 105, SitaSani 165	34	100	15 90 60

SitaAttika

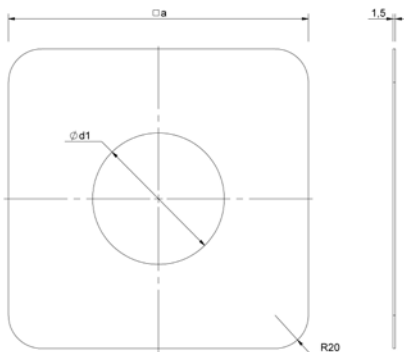
Cladding cover plate



Tender text

SitaAttika cladding cover plate, made of rust-proof stainless steel, material number 1.4301, to cover the parapet or wall opening in sizes DN 50 to DN 200, material thickness 1.5 mm, supply and install to professional standards.

Technical drawing



DN	a (mm)	d1 (mm)	Article number
50	155	54	E 18 90 25
70	180	79	E 18 90 26
100	215	114	E 18 90 27
125	230	129	E 18 90 28
150	265	165	E 18 90 29
200	303	203	E 18 90 45

SitaMore

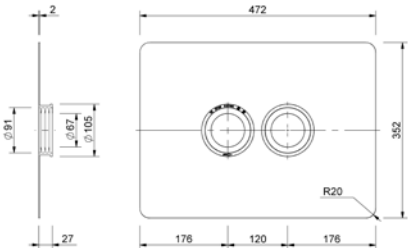
Vapour barrier plate



Tender text

SitaMore vapour barrier plate Duoflex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 70, with two multi-lip integrated sealing areas, supply and install to professional standards.

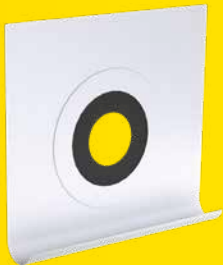
Technical drawing



Compatibility	Article number
SitaIndra, SitaEasy, SitaPipe stainless steel pipe	18 76 90

SitaMore

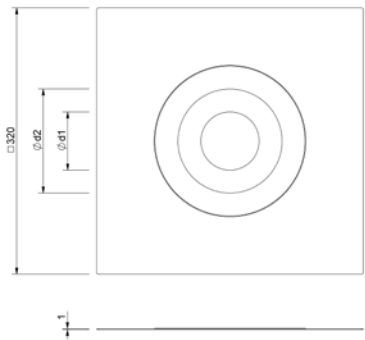
Sealing sleeve



Tender text

SitaMore sealing sleeve for WDVS, made of fleece-butyl, one-part render-compatible air sealing sleeve designed to be concealed in plastic, for the rapid and airtight sealing of pipe fairleads in the thermal insulation composite system according to DIN 4108-7 and GEG, in sizes DN 70 and DN 100, measuring 320 x 320 mm, with highly flexible EPDM seal, self-adhesive render-compatible fleece butyl collar for permanent bonding to the substrate (adhesion primer may be necessary) and between the fleece bonding surface and the render, supply and install to professional standards.

Technical drawing



DN	d1 (mm)	d2 (mm)	Article number
70	45	110	18 00 75
100	70	125	18 00 11

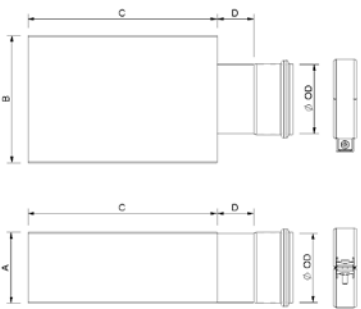
SitaMore Adapter



Tender text

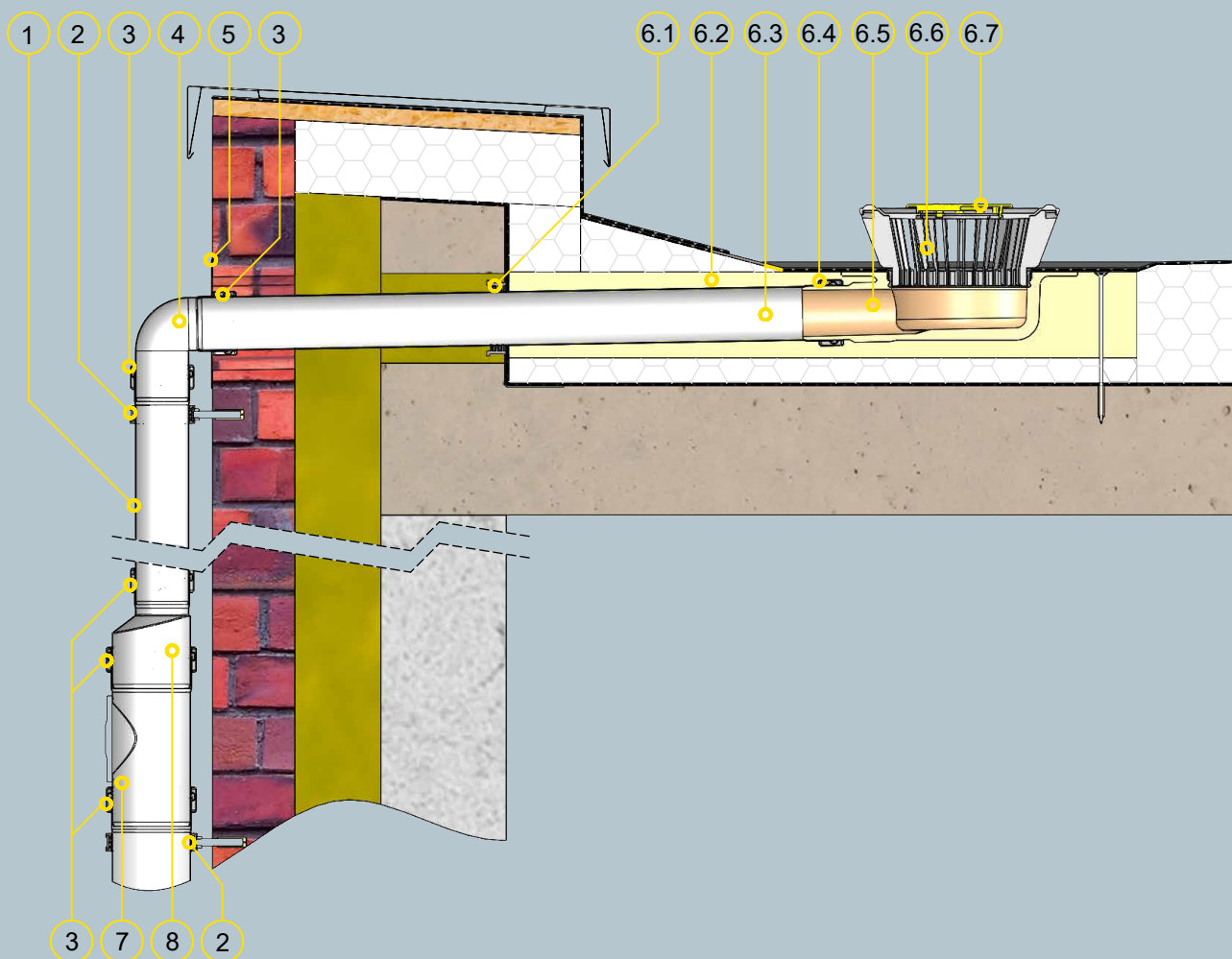
SitaMore transition piece, made of stainless steel, material number 1.4301, in sizes DN 50, DN 70, DN 100 and DN 125, for transition from SitaPipe stainless steel pipe to rectangular pipe, with safety clamp and sealing ring, supply and install to professional standards.

Technical drawing



DN	OD*	A	B	C	D	Article number
50	50	Hight Flat channel	Width Flat channel	Length Flat channel	Distance Muffe Flat channel	18 18 50
70	75					18 18 70
100	110					18 18 10
125	125					18 18 12

* OD = Outer diameter (mm)



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaPipe stainless steel pipe clamp
- 3 SitaPipe stainless steel safety clamp
- 4 SitaPipe stainless steel bend 87.5°
- 5 SitaAttika cladding cover plate

Sitalndra main drainage set consisting of:

- 6.1 Vapour barrier plate flex
- 6.2 Insulating body
- 6.3 Pipe
- 6.4 Safety clamp
- 6.5 Base body
- 6.6 Dome grate base body

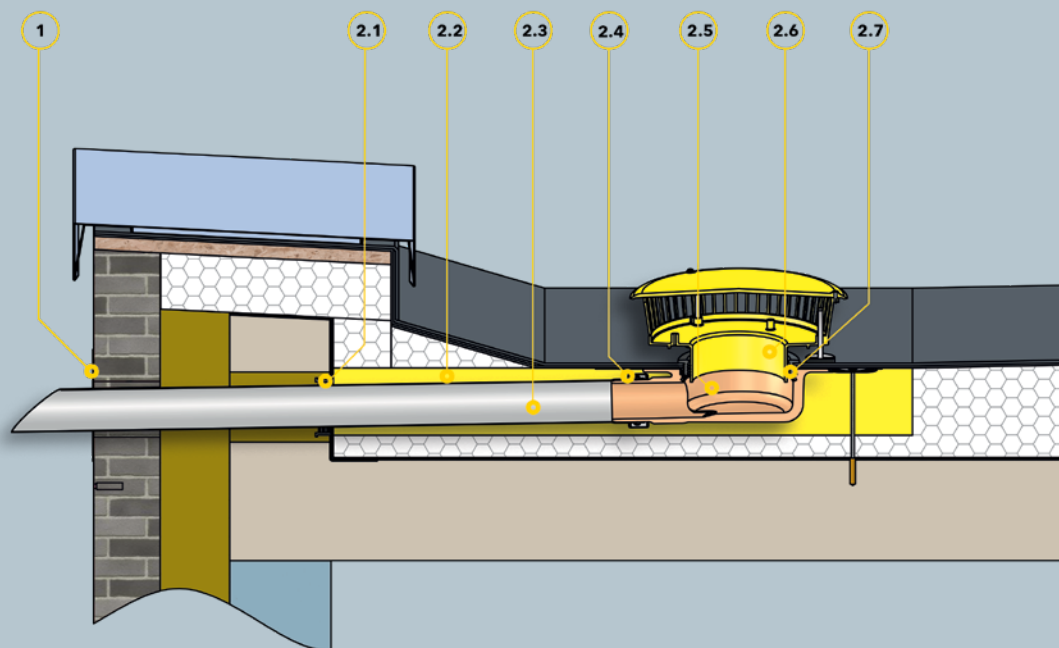
- 6.7 Dome grate cover

- 7 SitaPipe stainless steel cleaning pipe
- 8 SitaPipe stainless steel transition piece eccentric

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



Components

- 1 SitaAttika cladding cover plate

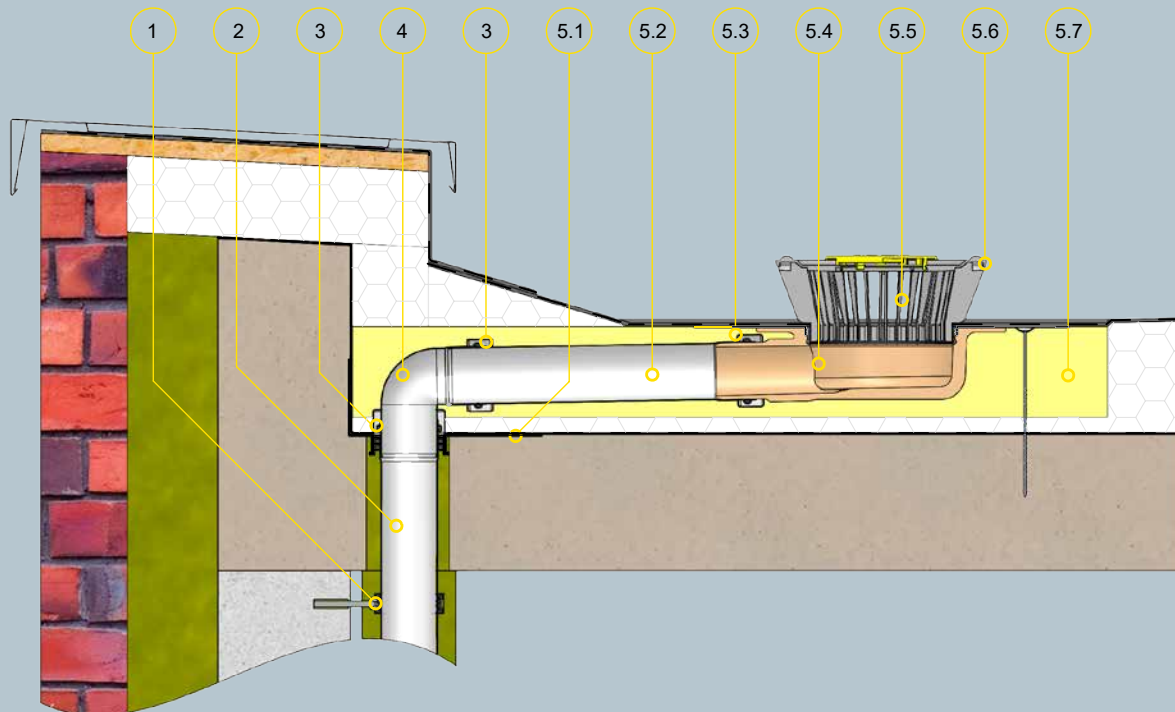
Sitalndra emergency drainage set consisting of:

- 2.1 SitaMore vapour barrier plate flex
- 2.2 Sitalndra insulating body
- 2.3 SitaPipe stainless steel pipe
- 2.4 SitaPipe stainless steel safety clamp
- 2.5 Sitalndra base body
- 2.6 Sitalndra retaining element
- 2.7 Sealing ring

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



Components

- 1 SitaPipe stainless steel pipe clamp
- 2 SitaPipe stainless steel pipe
- 3 SitaPipe stainless steel safety clamp
- 4 SitaPipe stainless steel bend 87.5°

SitaIndra main drainage set consisting of:

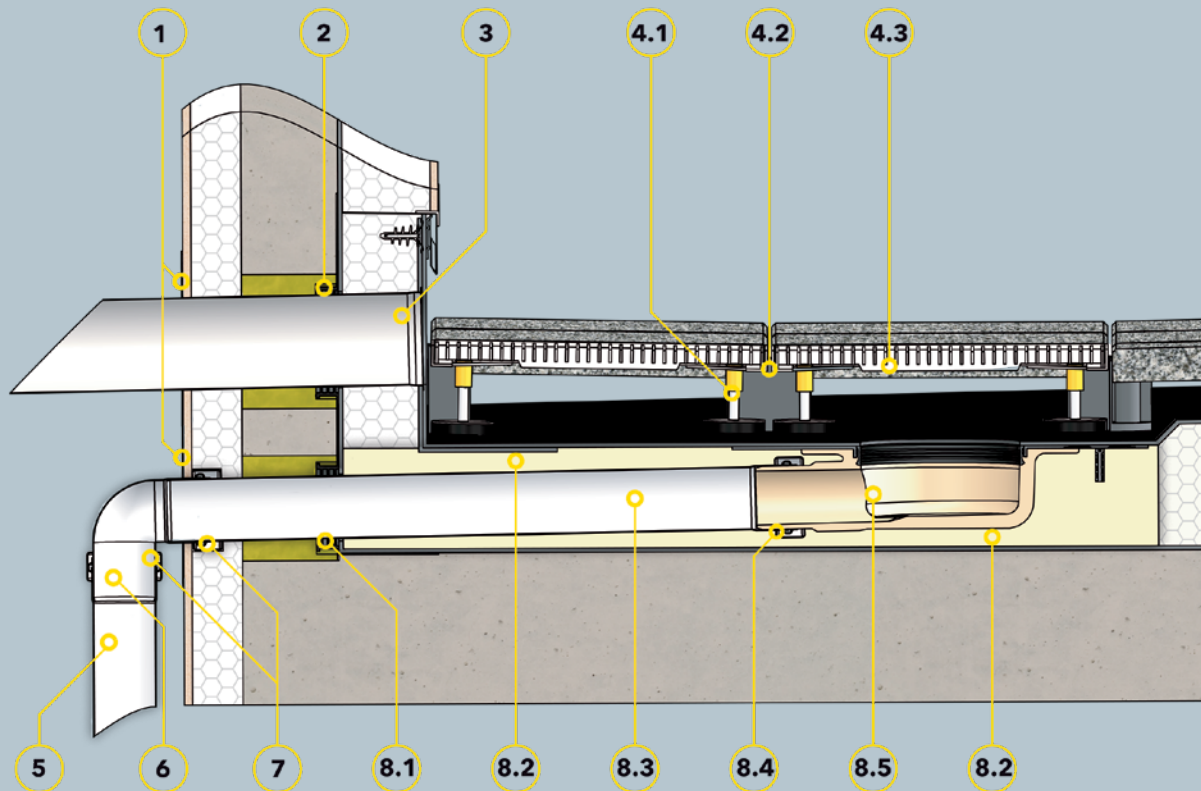
- 5.1 SitaMore vapour barrier plate flex
- 5.2 SitaPipe stainless steel pipe
- 5.3 SitaPipe stainless steel safety clamp
- 5.4 SitaIndra base body with connection sleeve
- 5.5 Dome grate base body
- 5.6 Dome grate cover

- 5.7 SitaIndra insulating body

Roof structure

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

- + Waterproof membrane
- + Thermal insulation
- + Vapour barrier
- + Substructure



Components

- 1 SitaAttika cladding cover plate
- 2 SitaMore vapour barrier plate flex
- 3 SitaSteel parapet round

SitaDrain® Terra consisting of:

- 4.1 Height-adjustable rubber-metal buffers
- 4.2 Frame
- 4.3 Inspection grate

- 5 SitaPipe stainless steel pipe
- 6 SitaPipe stainless steel bend
- 7 SitaPipe stainless steel safety clamp

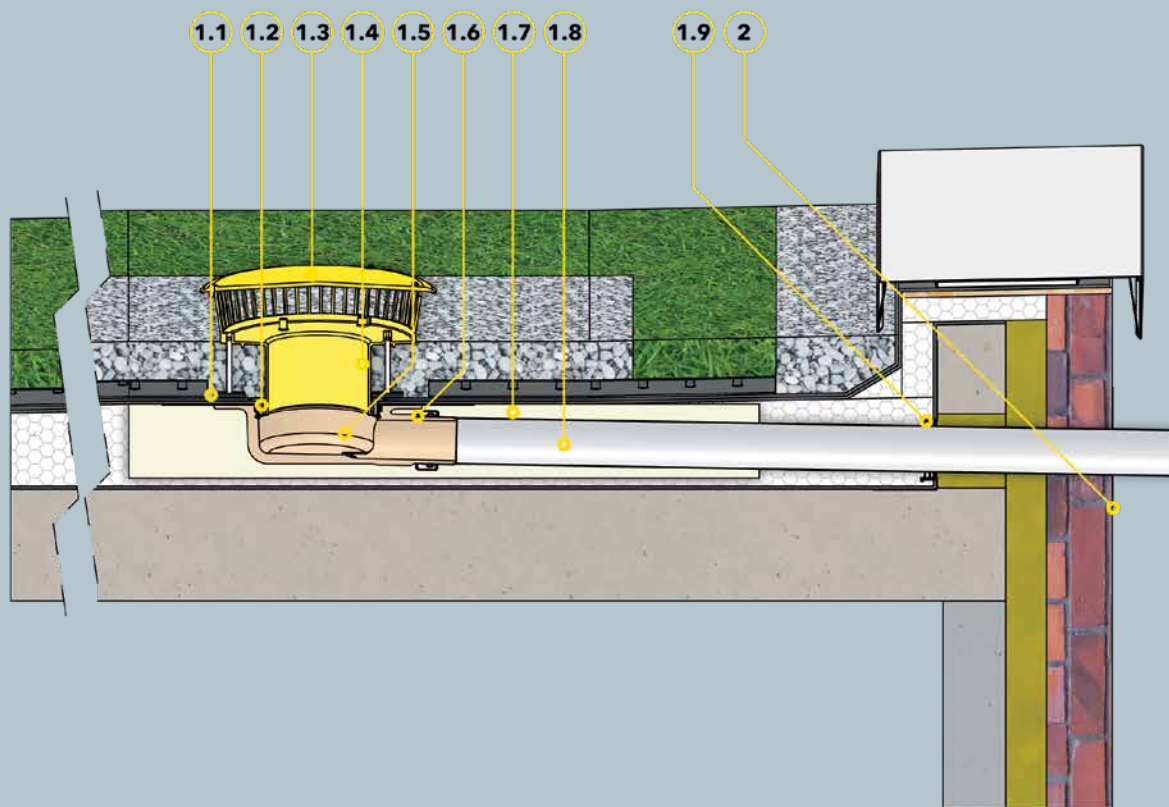
Sitalndra main drainage set consisting of:

- 8.1 SitaMore vapour barrier plate flex
- 8.2 Sitalndra insulating body
- 8.3 SitaPipe stainless steel pipe
- 8.4 SitaPipe stainless steel safety clamp
- 8.5 Sitalndra base body

Roof structure

Non-ventilated roof structure with slab paving on support pads:

- + Slab paving
- + Support pads
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet lead-through with joint tape



Components

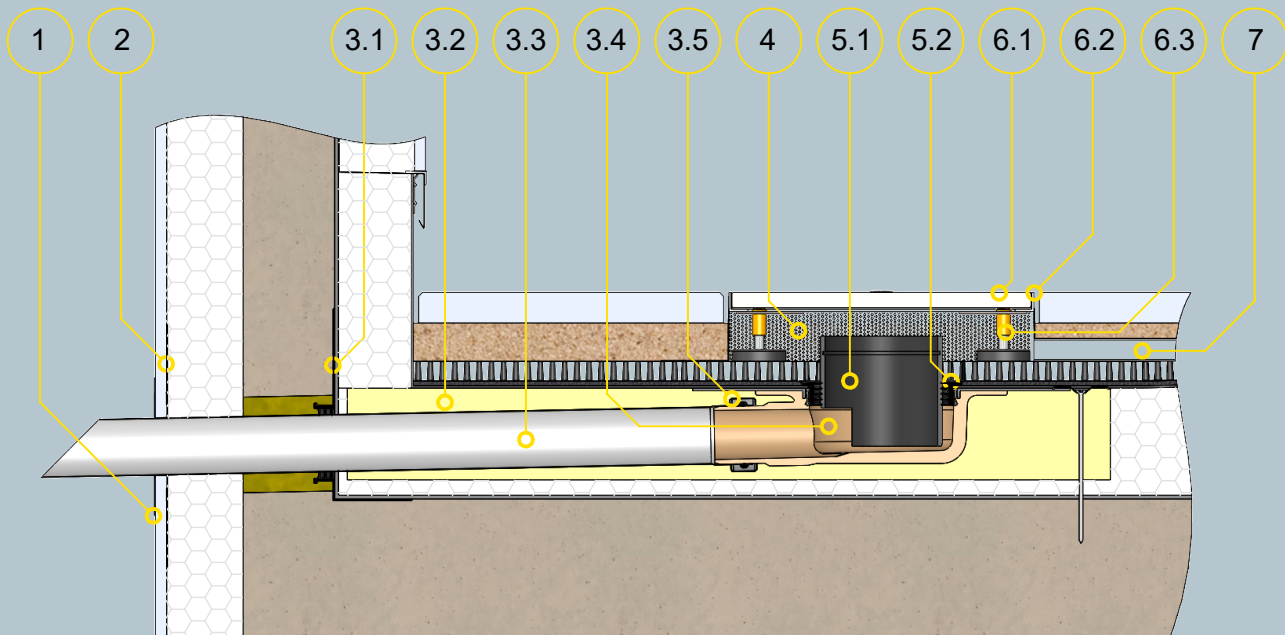
SitaIndra emergency drainage set consisting of:

- 1.1** Height-adjustable rubber feet
- 1.2** Sealing ring
- 1.3** Closed cover
- 1.4** Retaining element
- 1.5** SitaIndra base body
- 1.6** SitaPipe stainless steel safety clamp
- 1.7** SitaIndra insulating body
- 1.8** SitaPipe stainless steel pipe
- 1.9** SitaMore vapour barrier plate flex
- 2** SitaAttika cladding cover plate

Roof structure

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

- + roof greenery according to system provider
- + drainage mat
- + building protection mat
- + Sealing
- + Heat insulation
- + Vapour barrier
- + Substructure



Components

- 1 SitaAttika cladding cover plate
- 2 SitaMore sealing sleeve for WDVS

SitaIndra without dome grate consisting of:

- 3.1 SitaMore vapour barrier plate flex
- 3.2 SitaIndra insulating body
- 3.3 SitaPipe stainless steel pipe
- 3.4 SitaIndra base body
- 3.5 SitaPipe stainless steel safety clamp
- 4 SitaDrain® gravel strip

SitaMore retaining ring consisting of:

- 5.1 Retaining ring
- 5.2 Sealing ring

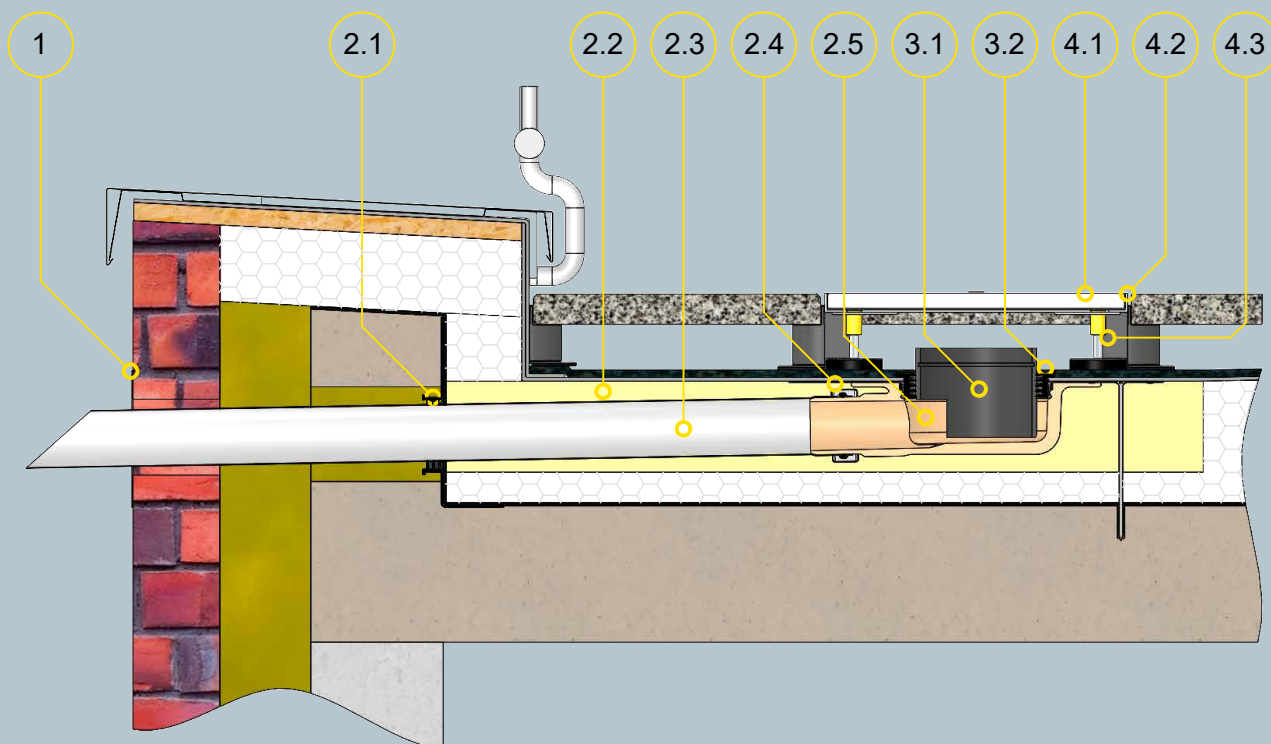
SitaDrain® Terra consisting of:

- 6.1 Inspection grate
- 6.2 Frame
- 6.3 Height-adjustable rubber feet
- 7 SitaDrain junction channel

Roof structure

Non-ventilated roof structure with slab paving on drainage with:

- + Slab paving
- + Split bed
- + Drainage
- + Building protection mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet opening with joint tape



Components

- 1** SitaAttika cladding cover plate

SitaIndra without dome grate consisting of:

- 2.1** Vapour barrier plate flex
- 2.2** Insulating body
- 2.3** Stainless steel tube
- 2.4** stainless steel safety clamp
- 2.5** Base body with connection sleeve of choice

SitaMore retaining ring consisting of:

- 3.1** Retaining ring
- 3.2** Sealing ring

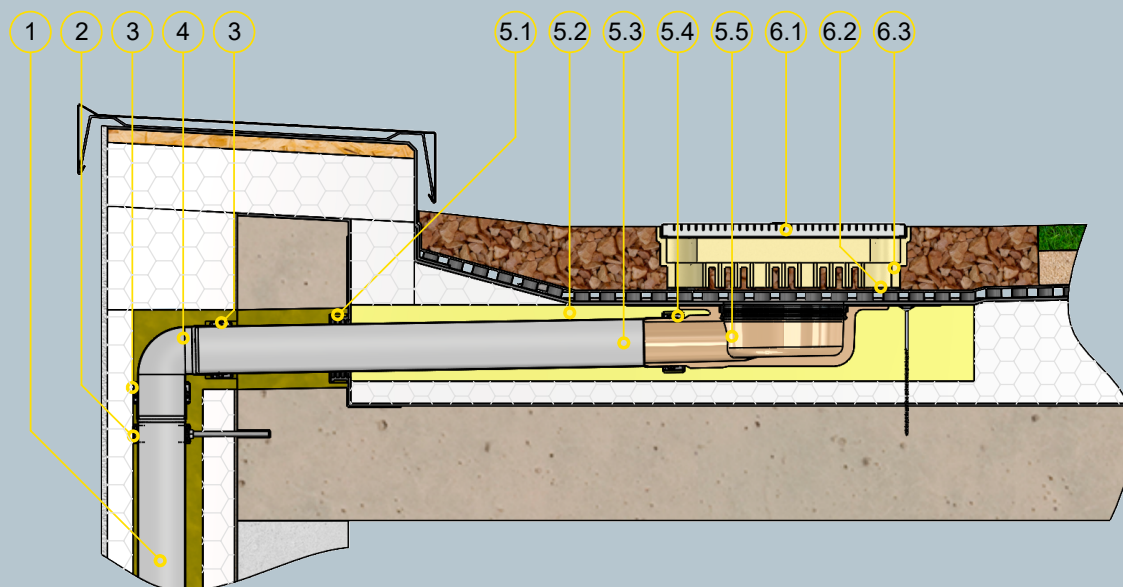
SitaDrain® Terra consisting of:

- 4.1** Inspection grate
- 4.2** Frame
- 4.3** Height-adjustable rubber feet

Roof structure

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

- + Slab paving on support pads
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + 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
- 4 SitaPipe stainless steel bend 87.5°

Sitalndra without dome grate consisting of:

- 5.1 Vapour barrier plate flex
- 5.2 Insulating body
- 5.3 Stainless steel pipe
- 5.4 stainless steel safety clamp
- 5.5 Base body with connection sleeve of choice

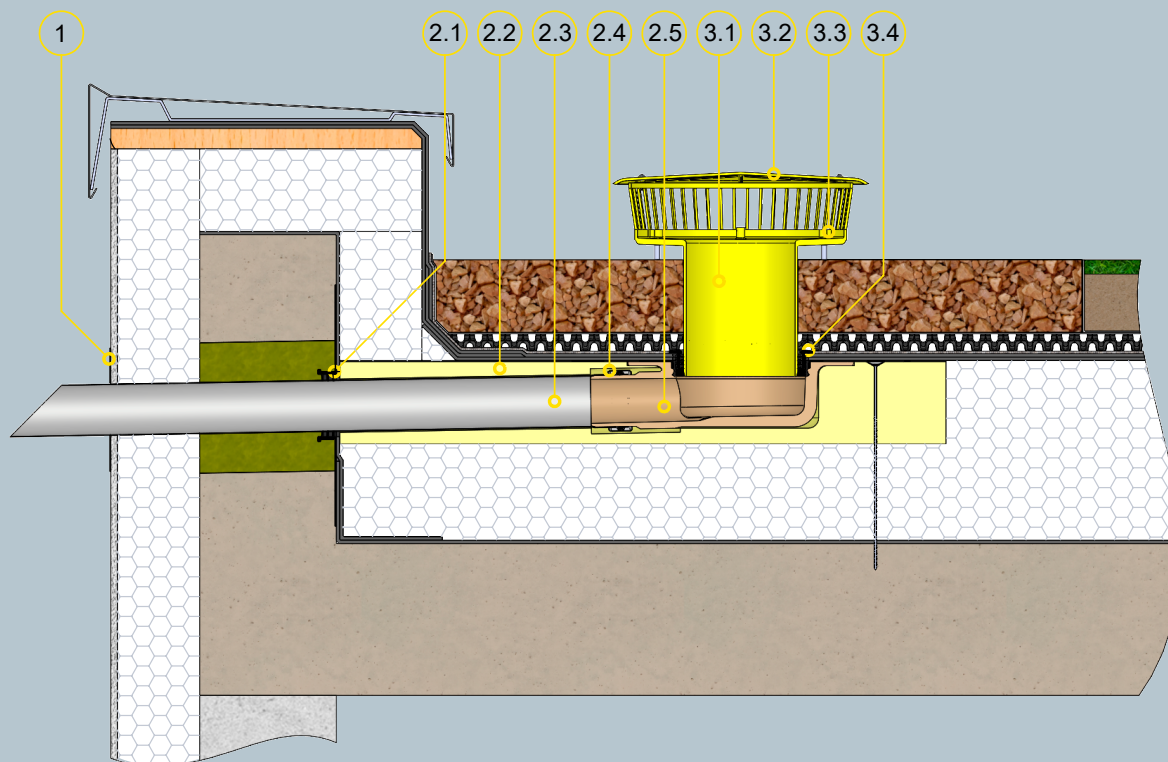
SitaGreen green roof shaft consisting of:

- 6.1 Inspection grate
- 6.2 Height-adjustable rubber feet
- 6.3 Base body

Roof structure

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

- + Roof greenery according to system supplier
- + Drainage mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure



Components

1 SitaAttika cladding cover plate

Sitalndra without dome grate consisting of:

- 2.1** Vapour barrier plate flex
- 2.2** Insulating body
- 2.3** Stainless steel tube
- 2.4** stainless steel safety clamp
- 2.5** Base body

Sitalndra retaining element consisting of:

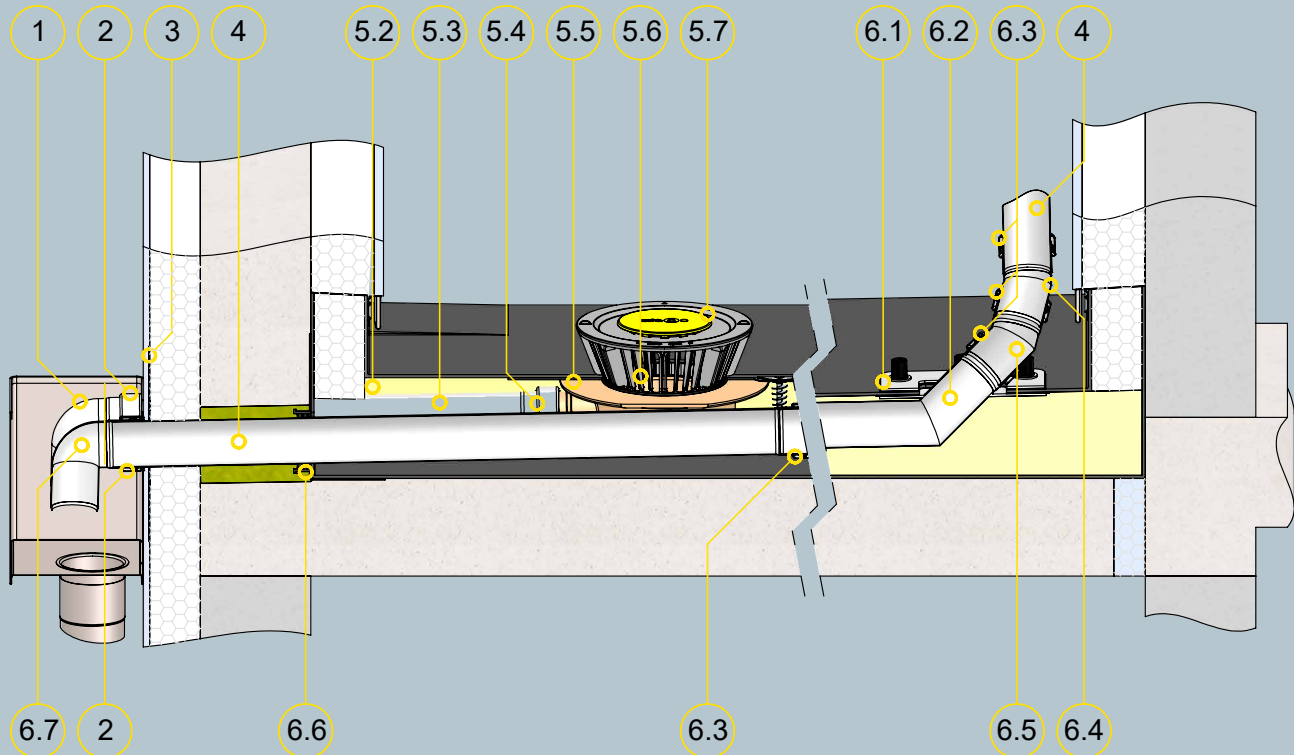
- 3.1** Base body
- 3.2** Cover
- 3.3** Height-adjustable rubber feet

3.4 Sealing ring

Roof structure

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

- + Roof greenery according to system supply
- + Drainage mat
- + Protective mat
- + Waterproofing
- + Thermal insulation
- + Vapour barrier
- + Substructure



Components

- 1 SitaPipe stainless steel bend 87.5°
- 2 SitaPipe stainless steel safety clamp
- 3 SitaMore sealing sleeve for WDVS
- 4 SitaPipe stainless steel pipe

SitaIndra main drainage set consisting of:

- 5.1 Vapour barrier plate flex
- 5.2 Insulating body
- 5.3 Pipe
- 5.4 Safety clamp
- 5.5 Base body with connection sleeve of choice
- 5.6 Dome grate base body

- 5.7 Dome grate cover

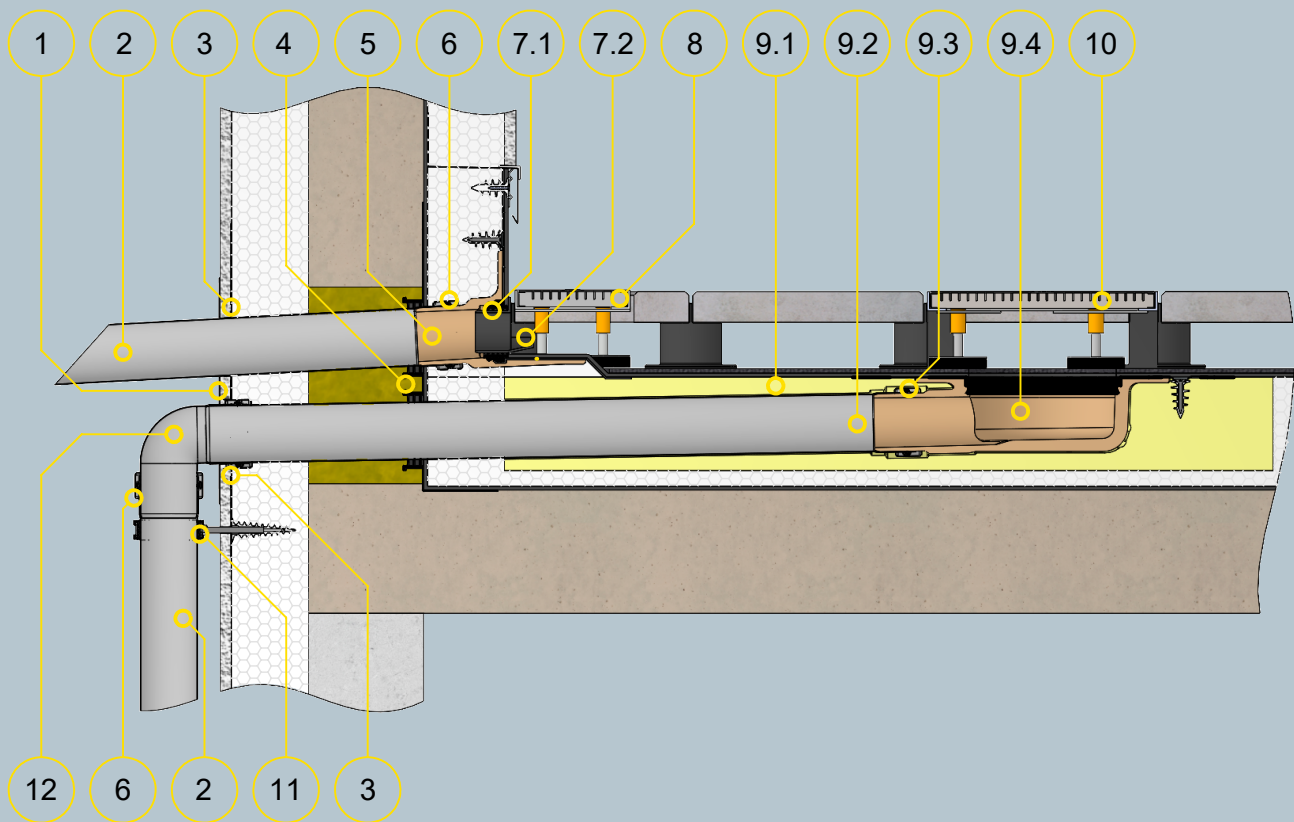
SitaKaskade Inside for downpipe consisting of:

- 6.1 Loose flange with sealing sleeves, nuts, washers and protective caps
- 6.2 Cascade component with threaded rods
- 6.3 Safety clamp
- 6.4 Bend 15°
- 6.5 Bend 30°
- 6.6 Vapour barrier plate
- 6.7 Bend 87.5°

Roof structure

Non-ventilated roof structure with slab paving on a gravel bed to the general rules of engineering with:

- + Waterproof membrane
- + Thermal insulation
- + Vapour barrier
- + Substructure



Components

- 1 Cladding cover plate special production
- 2 SitaPipe stainless steel pipe
- 3 SitaMore sealing sleeve WDVS
- 4 SitaMore vapour barrier plate Duoflex
- 5 SitaEasy
- 6 SitaPipe stainless steel safety clamp

SitaEasy retaining element consisting of:

- 7.1 Sealing ring
- 7.2 Base body

- 8 SitaDrain® Klassik

Sitalndra without dome grate consisting of:

- 9.1 Insulating body
- 9.2 Stainless steel connection pipe
- 9.3 Safety clamp
- 9.4 Inlet pot
- 10 SitaDrain® Terra
- 11 SitaPipe stainless steel pipe clamp
- 12 SitaPipe stainless steel bend

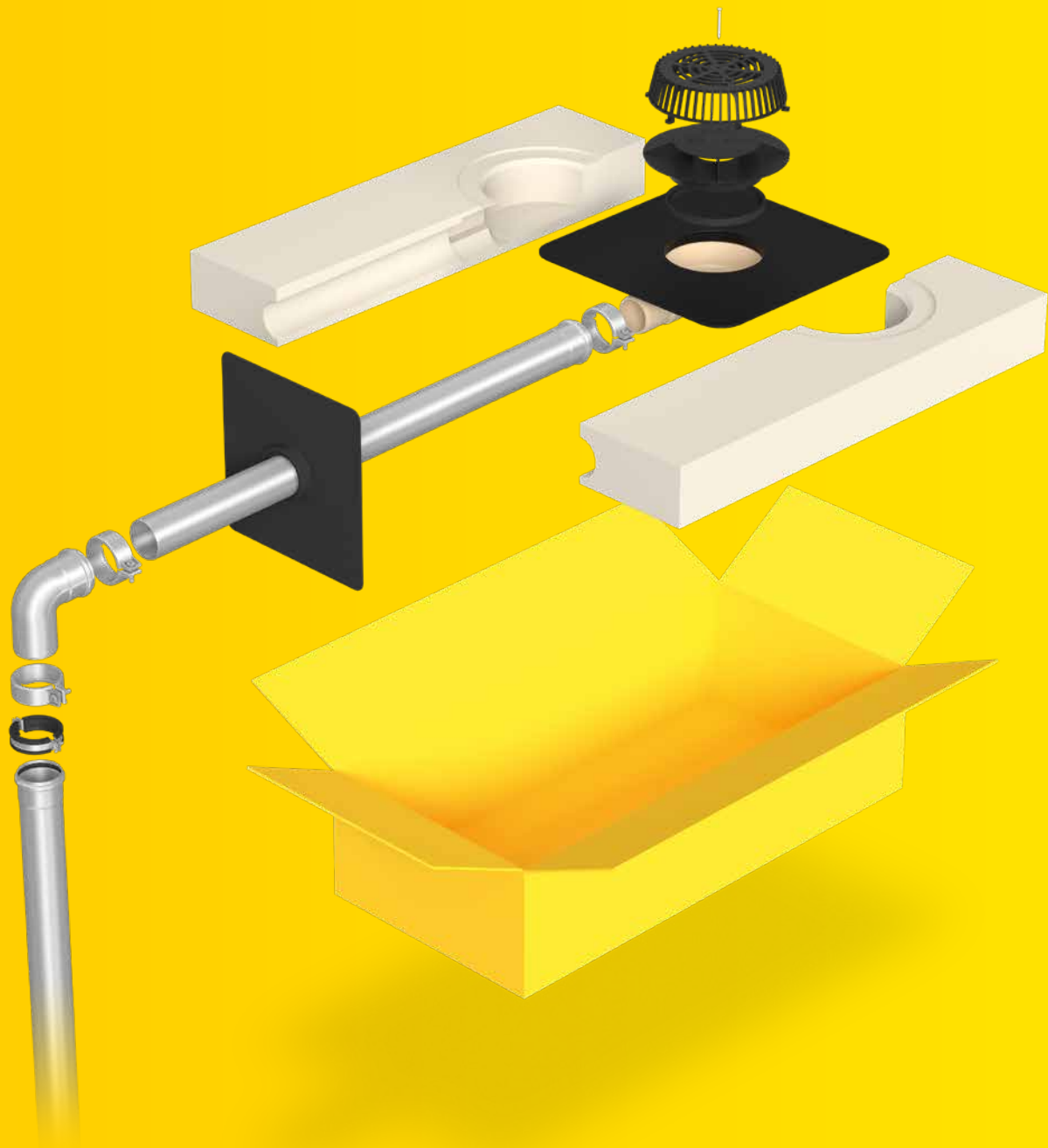
Roof structure

Non-ventilated roof structure with slab paving on support pad to with:

- + Slab paving
- + Support pad
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure

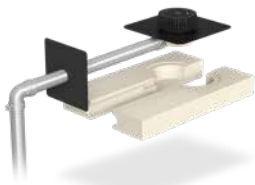
SitaDSS Indra

Performs well under pressure. Safety in the set.

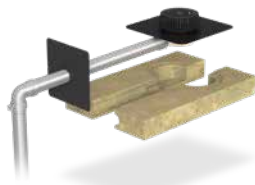


SitaDSS Indra

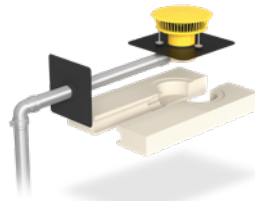
- + Siphonic draining for small and large areas
- + Safe installation with complete set
- + Particularly high discharge rate up to 17.3 l/s
- + Available with three alternative downpipe lengths
- + Can be combined with the SitaPipe stainless steel pipe system



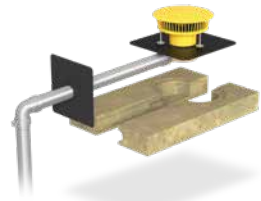
SitaDSS Indra
Main drainage set
Polyurethane
insulating body



SitaDSS Indra
Main drainage set
Mineral wool
insulating body



SitaDSS Indra
Emergency drainage set
Polyurethane
insulating body



SitaDSS Indra
Emergency drainage set
Mineral wool
insulating body



SitaMore
Vapour barrier plate



SitaAttika
Cladding cover plate



SitaMore
Sealing sleeve

SitaDSS Indra

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	Polyurethane (outlet/insulating body), rust-proof stainless steel, material number 1.4301 (pipe system)
Design	Polyurethane insulating body Mineral wool insulating body
Temperature resistance, min.	-40 °C
Temperature resistance, max.	80 °C
Material class	Euroclass A1 / A1 non-flammable, Euroclass E / B2 normal flammability
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable + Thermally insulated
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.

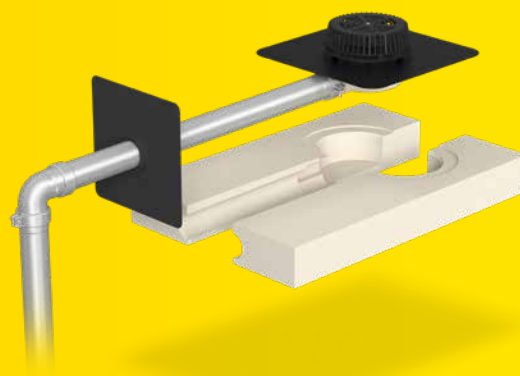
Quality mark



SitaDSS Indra

Main drainage set

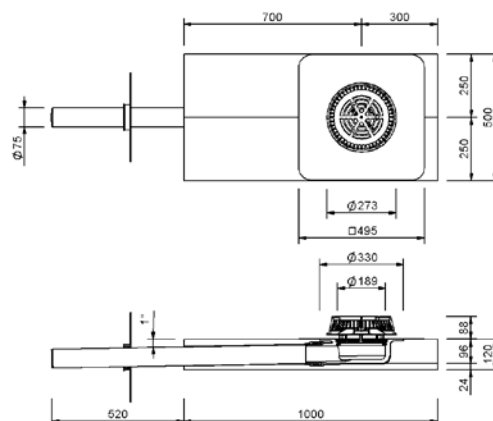
Polyurethane insulating body



Tender text

SitaDSS Indra main drainage kit for siphonic drainage, with angled parapet outlet, made of polyurethane, thermally insulated, according to DIN EN 1253-2, size DN 70, discharge rate 17.0 l/s at 45 mm retaining height, with stainless steel connection pipe and safety clamps, flex vapour barrier plate for secure connection to the vapour barrier and PUR insulating body with a thermal conductivity $\lambda=0.025$ W/mK and a compressive strength of 200 kPa. With large integrated connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and for supporting the supplied dome grate with Airstop. Complete as a set with 2.0 m (1 pipe at 2,000 mm), 3.0 m (1 pipe at 1,000 mm + 1 pipe at 2,000 mm), or 4.0 m downpipe (2 pipes at 2,000 mm) including pipe clamps, supply and install to professional standards.

Technical drawing



SitaDSS Indra

Execution	Article number
2-metre fall pipe	14 73 xx
3-metre fall pipe	14 75 xx
4-metre fall pipe	14 77 xx

xx = Article end numbers for connection sleeve of choice

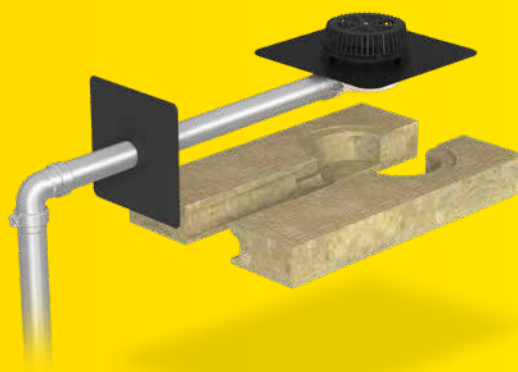
Discharge rate according to DIN EN 1253-2

Execution	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
2.0 m	0.7	2.1	3.4	5.0	6.6	8.6	10.6	12.0	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
3.0 m	0.9	2.3	3.4	5.1	6.7	8.7	10.7	13.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
4.0 m	0.9	2.4	3.9	5.5	7.1	9.1	11.0	14.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0

SitaDSS Indra

Main drainage set

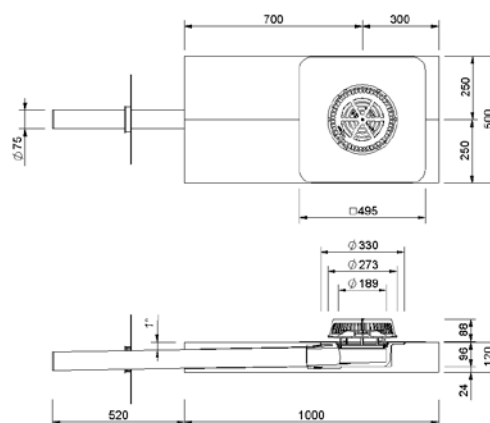
Mineral wool insulating body



Tender text

SitaDSS Indra main drainage kit for siphonic drainage, with angled parapet outlet, made of polyurethane, thermally insulated, according to DIN EN 1253-2, size DN 70, discharge rate 17.0 l/s at 45 mm retaining height, with stainless steel connection pipe and safety clamps, flex vapour barrier plate for secure connection to the vapour barrier and two-part insulating body made of mineral wool with a thermal conductivity $\lambda=0.040$ W/mK and a compressive strength of 70 kPa. With large integrated connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and for supporting the supplied dome grate with Airstop. Complete as a set with 2.0 m (1 pipe at 2,000 mm), 3.0 m (1 pipe at 1,000 mm + 1 pipe at 2,000 mm), or 4.0 m downpipe (2 pipes at 2,000 mm) including pipe clamps, supply and install to professional standards.

Technical drawing



SitaDSS Indra

Execution	Article number
2-metre fall pipe	14 83 xx
3-metre fall pipe	14 85 xx
4-metre fall pipe	14 87 xx

xx = Article end numbers for connection sleeve of choice

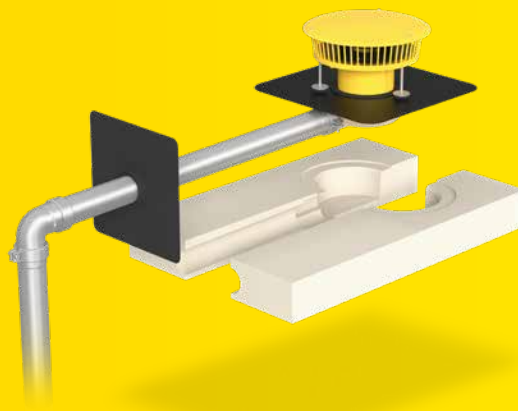
Discharge rate according to DIN EN 1253-2

Execution	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
2.0 m	0.7	2.1	3.4	5.0	6.6	8.6	10.6	12.0	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
3.0 m	0.9	2.3	3.4	5.1	6.7	8.7	10.7	13.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
4.0 m	0.9	2.4	3.9	5.5	7.1	9.1	11.0	14.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0

SitaDSS Indra

Emergency drainage set

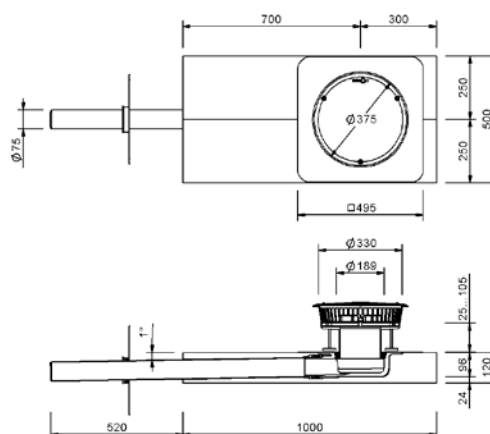
Polyurethane insulating body



Tender text

SitaDSS Indra emergency drainage kit for siphonic drainage, with angled parapet outlet, made of polyurethane, thermally insulated, according to DIN EN 1253-2, size DN 70, discharge rate 17.3 l/s at 45 mm retaining height, with stainless steel connection pipe and safety clamps, flex vapour barrier plate for secure connection to the vapour barrier and PUR insulating body with a thermal conductivity $\lambda=0.025$ W/mK and a compressive strength of 200 kPa. With large integrated connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and for supporting the supplied retaining element with Airstop and sealing ring. Complete as a set with 2.0 m (1 pipe at 2,000 mm), 3.0 m (1 pipe at 1,000 mm + 1 pipe at 2,000 mm), or 4.0 m downpipe (2 pipes at 2,000 mm) including pipe clamps, supply and install to professional standards.

Technical drawing



Execution	Article number
2-metre fall pipe	14 74 xx
3-metre fall pipe	14 76 xx
4-metre fall pipe	14 78 xx

xx = Article end numbers for connection sleeve of choice

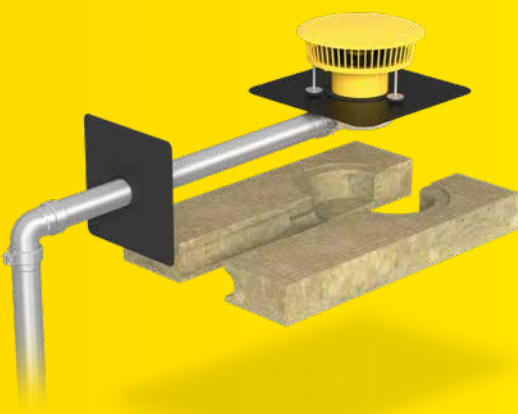
Discharge rate according to DIN EN 1253-2

Execution	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
2.0 m	0.7	2.1	3.4	5.0	6.6	8.6	10.6	12.0	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
3.0 m	0.9	2.3	3.4	5.1	6.7	8.7	10.7	13.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
4.0 m	0.9	2.4	3.9	5.5	7.1	9.1	11.0	14.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0

SitaDSS Indra

Emergency drainage set

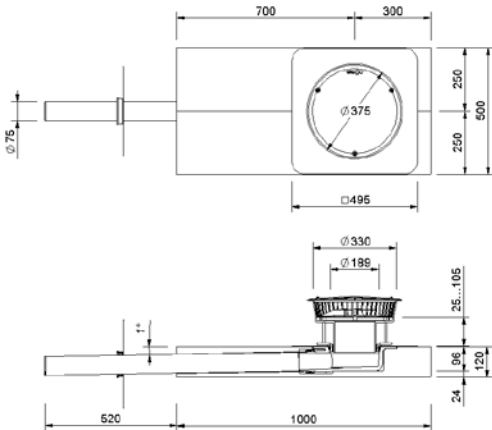
Mineral wool insulating body



Tender text

SitaDSS Indra emergency drainage kit for siphonic drainage, with angled parapet outlet, made of polyurethane, thermally insulated, according to DIN EN 1253-2, size DN 70, discharge rate 17.3 l/s at 45 mm retaining height, with stainless steel connection pipe and safety clamps, flex vapour barrier plate for secure connection to the vapour barrier and two-part insulating body made of mineral wool with a thermal conductivity $\lambda=0.040$ W/mK and a compressive strength of 70 kPa. With large integrated connection sleeve of choice (495 x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and for supporting the supplied retaining element with Airstop and sealing ring. Complete as a set with 2.0 m (1 pipe at 2,000 mm), 3.0 m (1 pipe at 1,000 mm + 1 pipe at 2,000 mm), or 4.0 m downpipe (2 pipes at 2,000 mm) including pipe clamps, supply and install to professional standards.

Technical drawing



Execution	Article number
2-metre fall pipe	14 84 xx
3-metre fall pipe	14 86 xx
4-metre fall pipe	14 88 xx

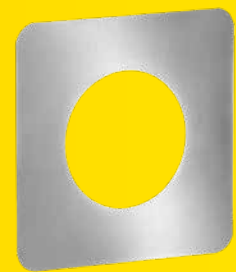
xx = Artikelendziffer für Wunschanchlussmanschette

Abflussmenge in l/s nach DIN EN 1253

Execution	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
2.0 m	0.9	2.1	3.3	5.2	7.0	10.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
3.0 m	0.9	2.1	3.3	5.2	7.1	10.6	14.0	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
4.0 m	0.9	2.1	3.3	5.2	7.1	10.6	11.0	14.0	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3

SitaAttika

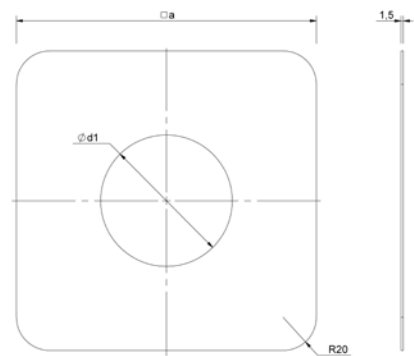
Cladding cover plate



Tender text

SitaAttika cladding cover plate, made of rust-proof stainless steel, material number 1.4301, to cover the parapet or wall opening in sizes DN 50 to DN 200, material thickness 1.5 mm, supply and install to professional standards.

Technical drawing



DN	a (mm)	d1 (mm)	Article number
50	155	54	E 18 90 25
70	180	79	E 18 90 26
100	215	114	E 18 90 27
125	230	129	E 18 90 28
150	265	165	E 18 90 29
200	303	203	E 18 90 45

SitaMore

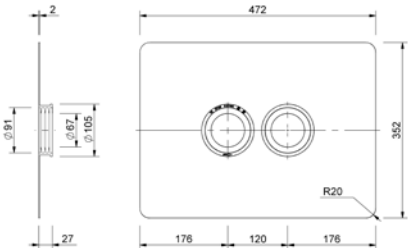
Vapour barrier plate



Tender text

SitaMore vapour barrier plate Duoflex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 70, with two multi-lip integrated sealing areas, supply and install to professional standards.

Technical drawing



Compatibility	Article number
SitaIndra, SitaEasy, SitaPipe stainless steel pipe	18 76 90

SitaMore

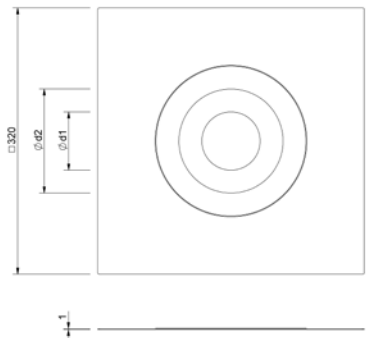
Sealing sleeve



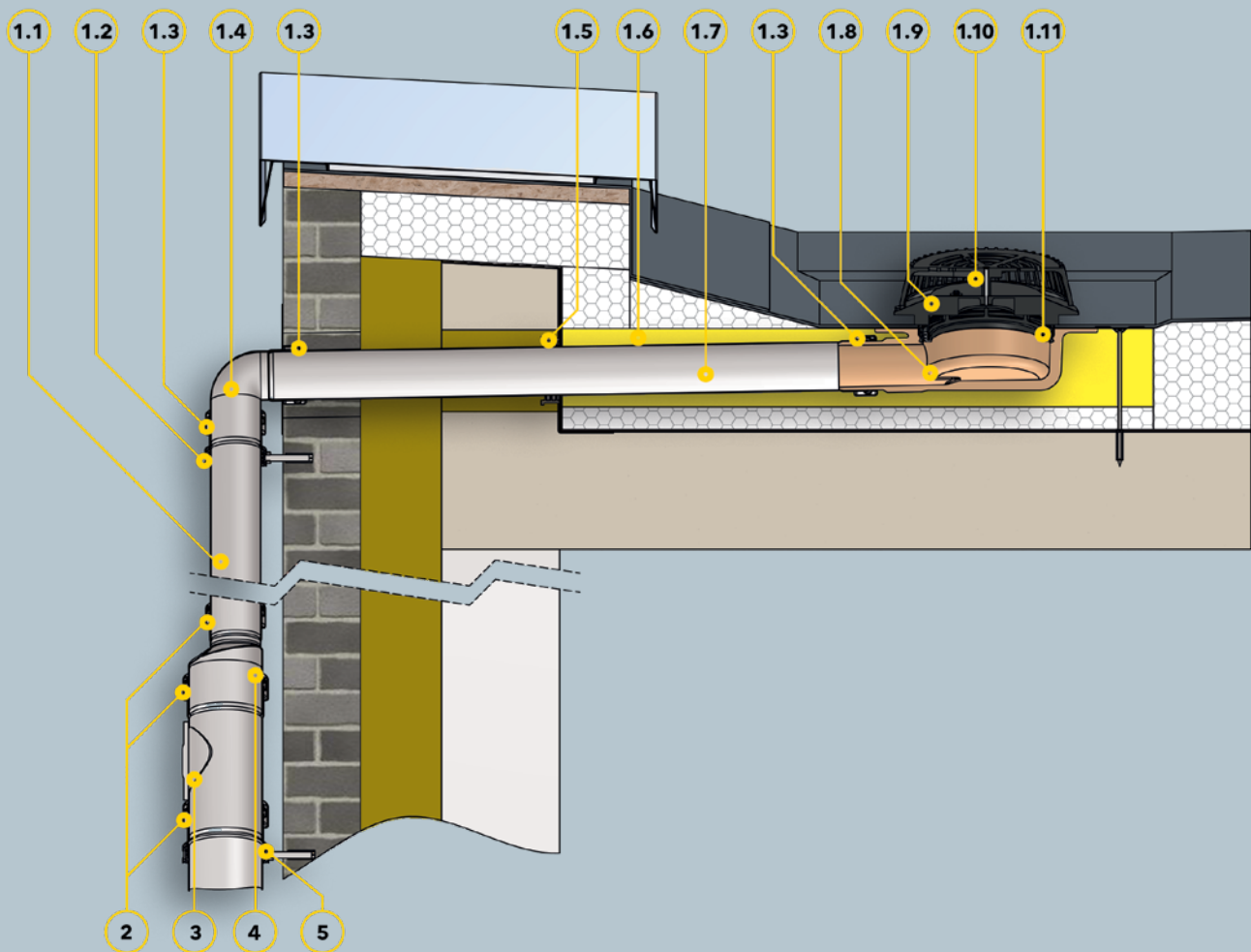
Tender text

SitaMore sealing sleeve for WDVS, made of fleece-butyl, one-part render-compatible air sealing sleeve designed to be concealed in plastic, for the rapid and airtight sealing of pipe fairleads in the thermal insulation composite system according to DIN 4108-7 and GEG, in sizes DN 70 and DN 100, measuring 320 x 320 mm, with highly flexible EPDM seal, self-adhesive render-compatible fleece butyl collar for permanent bonding to the substrate (adhesion primer may be necessary) and between the fleece bonding surface and the render, supply and install to professional standards.

Technical drawing



DN	d1 (mm)	d2 (mm)	Article number
70	45	110	18 00 75
100	70	125	18 00 11



Components

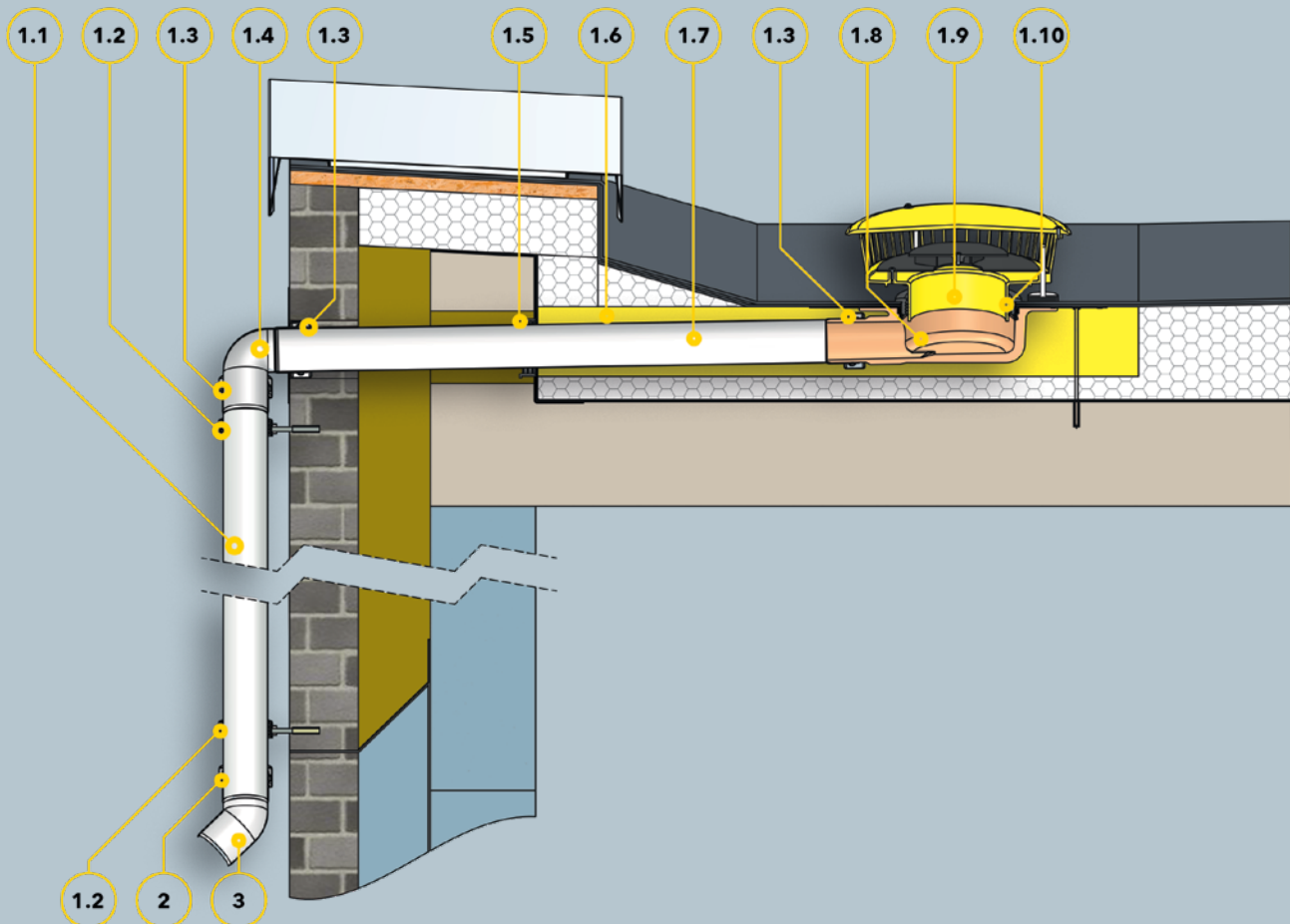
SitaDSS Indra main drainage set consisting of:

- | | |
|--|--|
| 1.1 SitaPipe stainless steel pipe | 2 SitaPipe stainless steel safety clamp |
| 1.2 SitaPipe stainless steel pipe clamp | 3 SitaPipe stainless steel cleaning pipe |
| 1.3 SitaPipe stainless steel safety clamp | 4 SitaPipe stainless steel transition piece eccentric |
| 1.4 SitaPipe stainless steel bend 87.5° | 5 SitaPipe stainless steel pipe clamp |
| 1.5 SitaMore vapour barrier plate flex | |
| 1.6 SitaIndra insulating body | |
| 1.7 SitaPipe stainless steel pipe | |
| 1.8 SitaDSS Indra base body | |
| 1.9 SitaDSS Indra Airstop | |
| 1.10 SitaDSS Indra dome grate | |
| 1.11 SitaDSS Indra Airstop fastening ring | |

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



Components

SitaDSS Indra emergency drainage set consisting of:

- 1.1 SitaAttika pipe
- 1.2 SitaAttika pipe clamp
- 1.3 SitaAttika safety clamp
- 1.4 SitaAttika bend 87.5°
- 1.5 SitaMore vapour barrier plate flex
- 1.6 SitaIndra insulating body
- 1.7 SitaAttika pipe
- 1.8 SitaDSS Indra base body
- 1.9 Retaining element with Airstop
- 1.10 Sealing ring
- 2 SitaAttika safety clamp

3 SitaAttika bend 45°

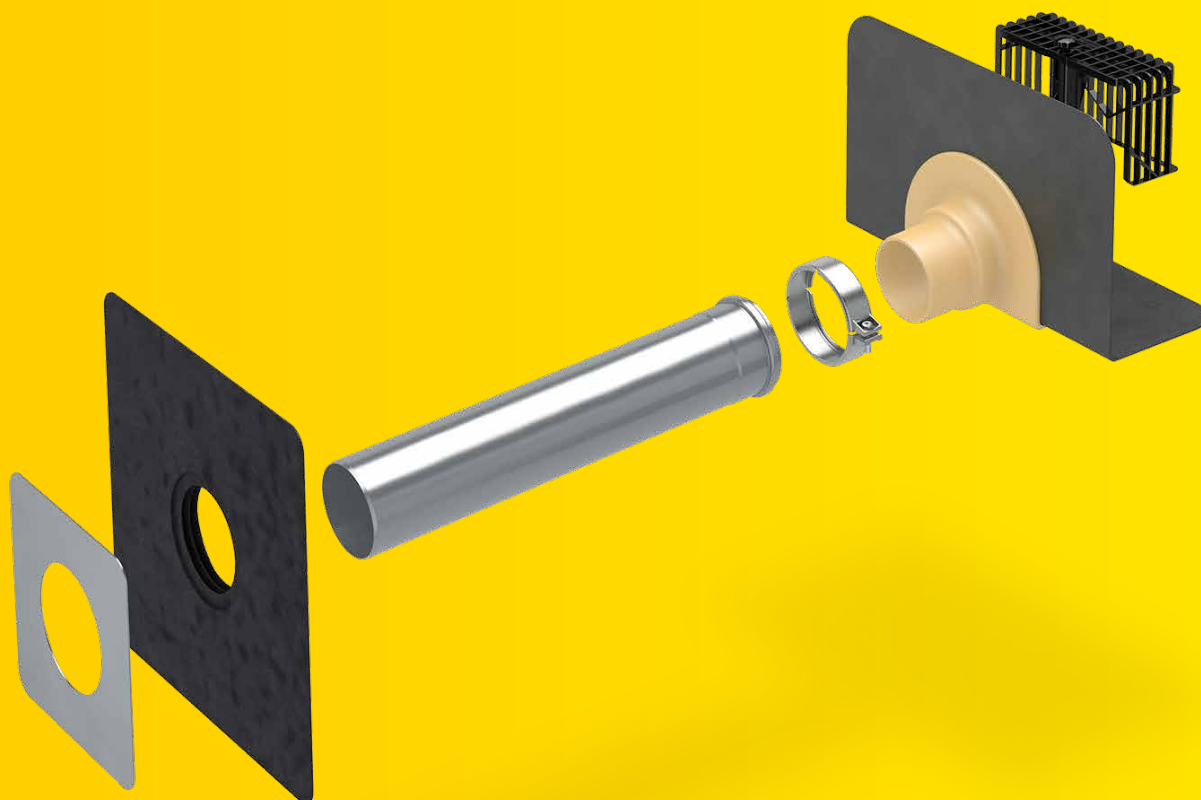
Roof structure

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

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

SitaEasy

Safe parapet drainage made easy.



- + For main and emergency drainage
- + With connection sleeve of choice
- + With angled flange
- + Available with vapour barrier plate flex
- + With use of the SitaPipe stainless steel pipe system



SitaEasy



SitaEasy
Dome grate



SitaEasy
Retaining element



SitaMore
PE connection pipe



SitaMore
Vapour barrier plate



SitaMore
Vapour barrier plate



SitaAttika
Cladding cover plate



SitaMore
Sealing sleeve



SitaMore
Adapter

SitaEasy

Product features at a glance:

Product features

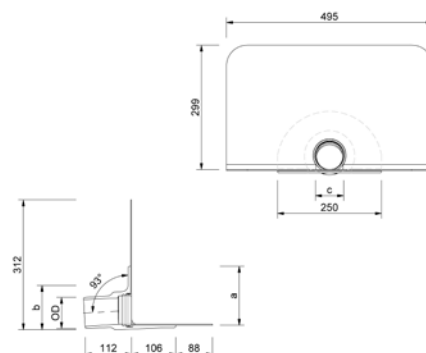
Applications	For main and emergency drainage of flat and slightly pitched, used and unused roof surfaces
Material	Polyurethane
Temperature resistance, min.	-20 °C
Temperature resistance, max.	80 °C
Material class	Euroclass E / B2 normal flammability
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable
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.



Tender text

SitaEasy parapet outlet, made of polyurethane, thermally insulated, in sizes DN 50, DN 70 and DN 100. For direct connection of pipes with plug-in coupler, for conventional drainage, with large foamed-in connection sleeve of choice (495 mm x 495 mm). With fixing ring for addition securing of the connection sleeve and to hold a dome grate, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	a (mm)	b (mm)	c (mm)	Article number
50	50	110	142	107	68	18 30 xx
70	75	135				18 32 xx
100	110	170	180	147	108	18 34 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	0,1	0,1	0,2	0,2	0,3	0,4	0,5	0,6	0,8	0,8	0,8	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
70	0,1	0,2	0,2	0,3	0,4	0,5	0,6	0,8	1,0	1,1	1,2	1,4	1,6	1,7	1,9	2,0	2,0	2,0	2,0	2,0
100	0,1	0,2	0,3	0,4	0,6	0,7	0,8	1,0	1,2	1,4	1,6	1,9	2,2	2,4	2,7	2,9	3,3	3,6	4,0	4,3

Discharge rate according to DIN EN 1253-2 with retaining element for emergency drainage

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	0,1	0,1	0,2	0,3	0,4	0,5	0,5	0,6	0,7	0,8	0,8	0,9	0,9	1,0	1,0	1,1	1,1	1,1	1,2	1,2
70	0,1	0,1	0,2	0,2	0,4	0,5	0,6	0,7	0,8	0,9	1,0	1,0	1,1	1,2	1,2	1,3	1,3	1,4	1,4	1,4
100	0,1	0,1	0,2	0,2	0,4	0,6	0,7	0,9	1,1	1,3	1,4	1,6	1,8	2,0	2,2	2,4	2,6	2,6	2,9	2,9



Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	0,1	0,1	0,2	0,2	0,3	0,4	0,5	0,6	0,8	0,8	0,8	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
70	0,1	0,2	0,2	0,3	0,4	0,5	0,6	0,8	1,0	1,1	1,2	1,4	1,6	1,7	1,9	2,0	2,0	2,0	2,0	2,0
100	0,1	0,2	0,3	0,4	0,6	0,7	0,8	1,0	1,2	1,4	1,6	1,9	2,2	2,4	2,7	2,9	3,3	3,6	4,0	4,3

SitaEasy

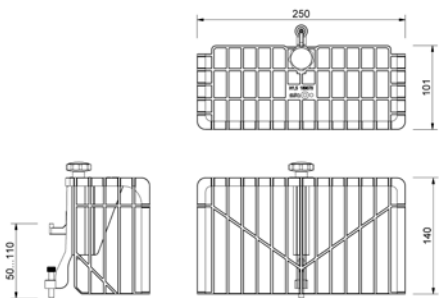
Dome grate



Tender text

SitaEasy dome grate, made of polyamide, for sizes DN 50, DN 70 and DN 100. For clamping in the securing ring, with two height adjustments, supply and install to professional standards.

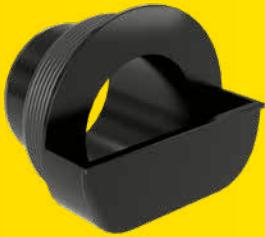
Technical drawing



Article number
18 90 70

SitaEasy

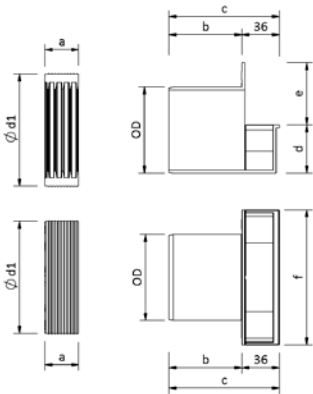
Retaining element



Tender text

SitaEasy retaining element, made of polyamide, for emergency drainage according to DIN EN 1253-2, for SitaEasy roof outlets in sizes DN 50, DN 70 and DN 100, for retaining heights of 19 - 50 mm (DN 50 / DN 70) and 16 - 59 mm (DN 100), can be shortened on site, with multi-lipped angled sealing ring for sealing the retaining element to the roof outlet, supply and install to professional standards.

Technical drawing



OD	Damming height from-to (mm)	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	d1 (mm)	Article number
55	19-50	32	43	76	43	29	84	68	18 90 74
83	16-59	33	70	103	47	60	130	108	18 90 75

SitaMore

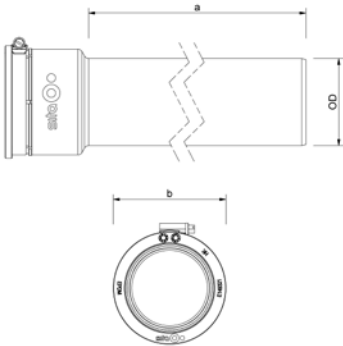
PE connection pipe



Tender text

SitaMore PE connection pipe, PE-HD socket pipe with inserted multi-lip EPDM seal and a hose clamp made of rust-proof stainless steel, material number 1.4401, for a secure connection to roof drains in sizes DN 70 or DN 100, supply and install to professional standards.

Technical drawing

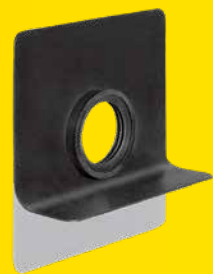


DN	OD*	a (mm)	b (mm)	Article number
70	75	500	97	18 55 90
		1000		18 55 92
		2000		18 55 95
100	110	500	132	18 55 91
		1000		18 55 94
		2000		18 55 96

* OD = Outer diameter (mm)

SitaMore

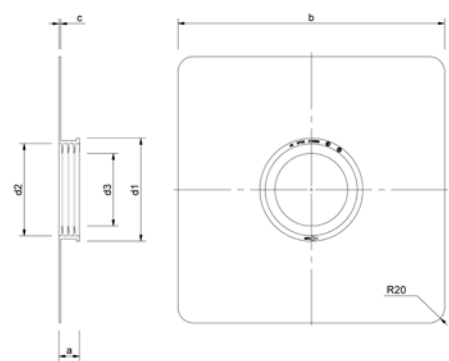
Vapour barrier plate



Tender text

SitaMore vapour barrier plate flex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 50, DN 70, DN 100, DN 125 and DN 150, with a multi-lip integrated sealing area, supply and install to professional standards.

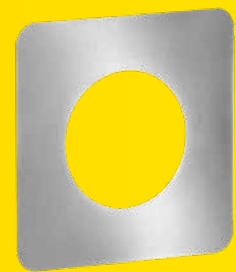
Technical drawing



DN	a (mm)	b (mm)	c (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Article number
50	27	352	2	76	62	44	18 50 90
70				105	91	67	18 70 90
100				136	122	96	18 00 90
125	28	400	3	159	145	119	18 12 90
150				195	181	153	18 60 90

SitaAttika

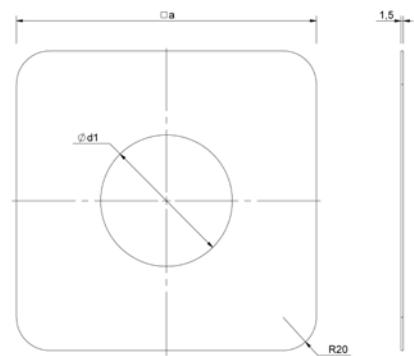
Cladding cover plate



Tender text

SitaAttika cladding cover plate, made of rust-proof stainless steel, material number 1.4301, to cover the parapet or wall opening in sizes DN 50 to DN 200, material thickness 1.5 mm, supply and install to professional standards.

Technical drawing



DN	a (mm)	d1 (mm)	Article number
50	155	54	E 18 90 25
70	180	79	E 18 90 26
100	215	114	E 18 90 27
125	230	129	E 18 90 28
150	265	165	E 18 90 29
200	303	203	E 18 90 45

SitaMore

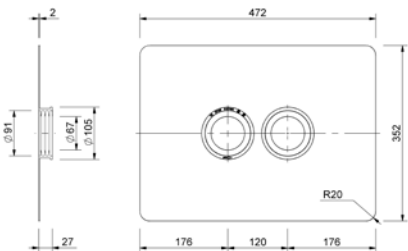
Vapour barrier plate



Tender text

SitaMore vapour barrier plate Duoflex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 70, with two multi-lip integrated sealing areas, supply and install to professional standards.

Technical drawing



Compatibility	Article number
SitaIndra, SitaEasy, SitaPipe stainless steel pipe	18 76 90

SitaMore

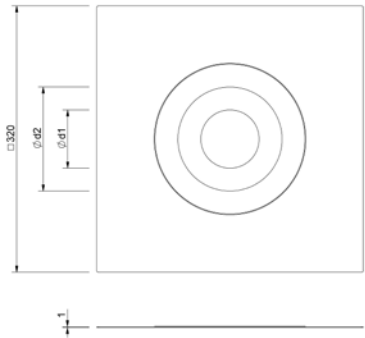
Sealing sleeve



Tender text

SitaMore sealing sleeve for WDVS, made of fleece-butyl, one-part render-compatible air sealing sleeve designed to be concealed in plastic, for the rapid and airtight sealing of pipe fairleads in the thermal insulation composite system according to DIN 4108-7 and GEG, in sizes DN 70 and DN 100, measuring 320 x 320 mm, with highly flexible EPDM seal, self-adhesive render-compatible fleece butyl collar for permanent bonding to the substrate (adhesion primer may be necessary) and between the fleece bonding surface and the render, supply and install to professional standards.

Technical drawing



DN	d1 (mm)	d2 (mm)	Article number
70	45	110	18 00 75
100	70	125	18 00 11

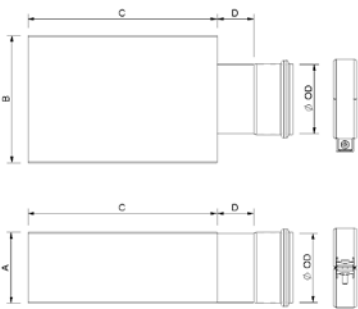
SitaMore Adapter



Tender text

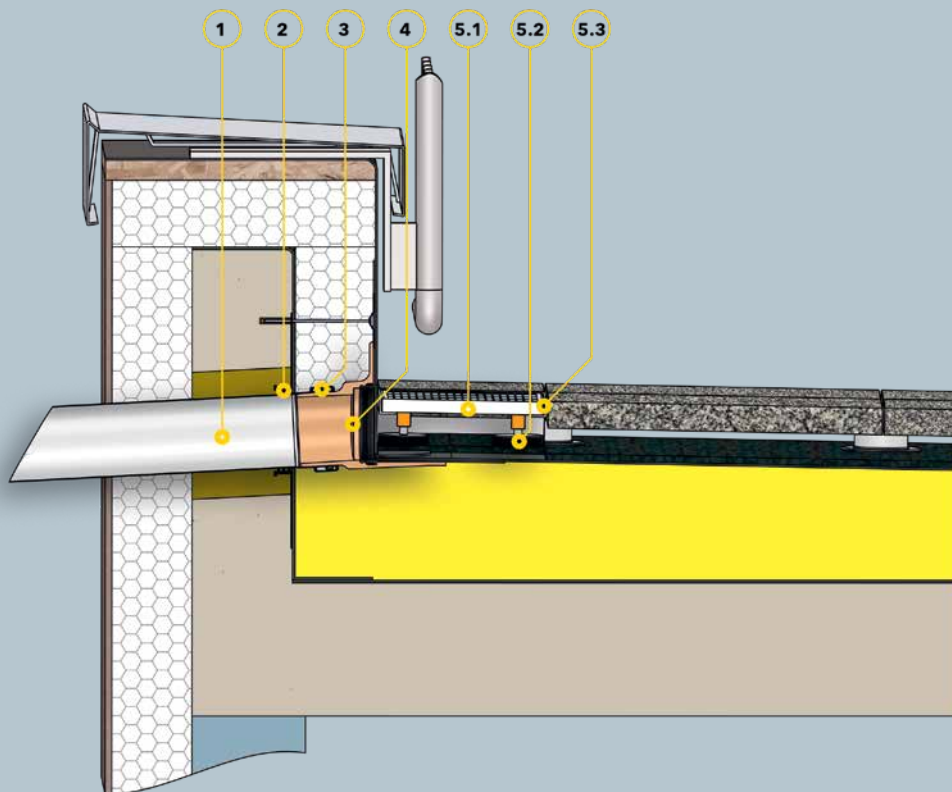
SitaMore transition piece, made of stainless steel, material number 1.4301, in sizes DN 50, DN 70, DN 100 and DN 125, for transition from SitaPipe stainless steel pipe to rectangular pipe, with safety clamp and sealing ring, supply and install to professional standards.

Technical drawing



DN	OD*	A	B	C	D	Article number
50	50	Hight Flat channel	Width Flat channel	Length Flat channel	Distance Muffe Flat channel	18 18 50
70	75					18 18 70
100	110					18 18 10
125	125					18 18 12

* OD = Outer diameter (mm)



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaMore vapour barrier plate flex
- 3 SitaPipe stainless steel safety clamp
- 4 SitaEasy

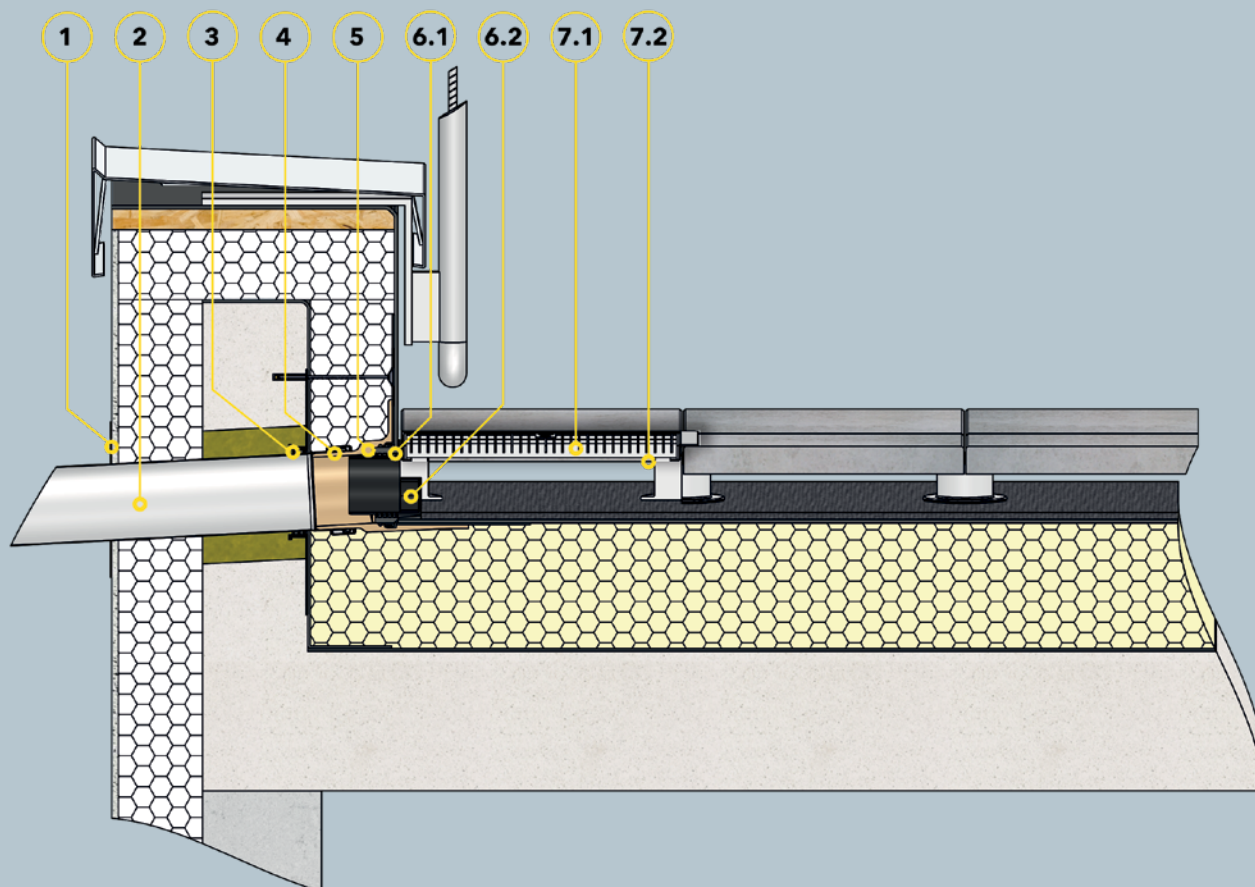
SitaDrain® Terra consisting of:

- 5.1 Inspection grate
- 5.2 Height-adjustable rubber feet
- 5.3 Frame

Roof structure

Non-ventilated roof structure with slab paving on support pad to the general rules of engineering with:

- + Slab paving on support pad
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet opening with joint tape



Components

- 1 SitaAttika cladding cover plate
- 2 SitaPipe stainless steel pipe
- 3 SitaMore vapour barrier plate flex
- 4 SitaPipe stainless steel safety clamp
- 5 SitaEasy

SitaEasy retaining element consisting of:

- 6.1 Seal
- 6.2 Retaining element base body

SitaDrain® profile frame consisting of:

- 7.1 Inspection grate
- 7.2 Profile frame

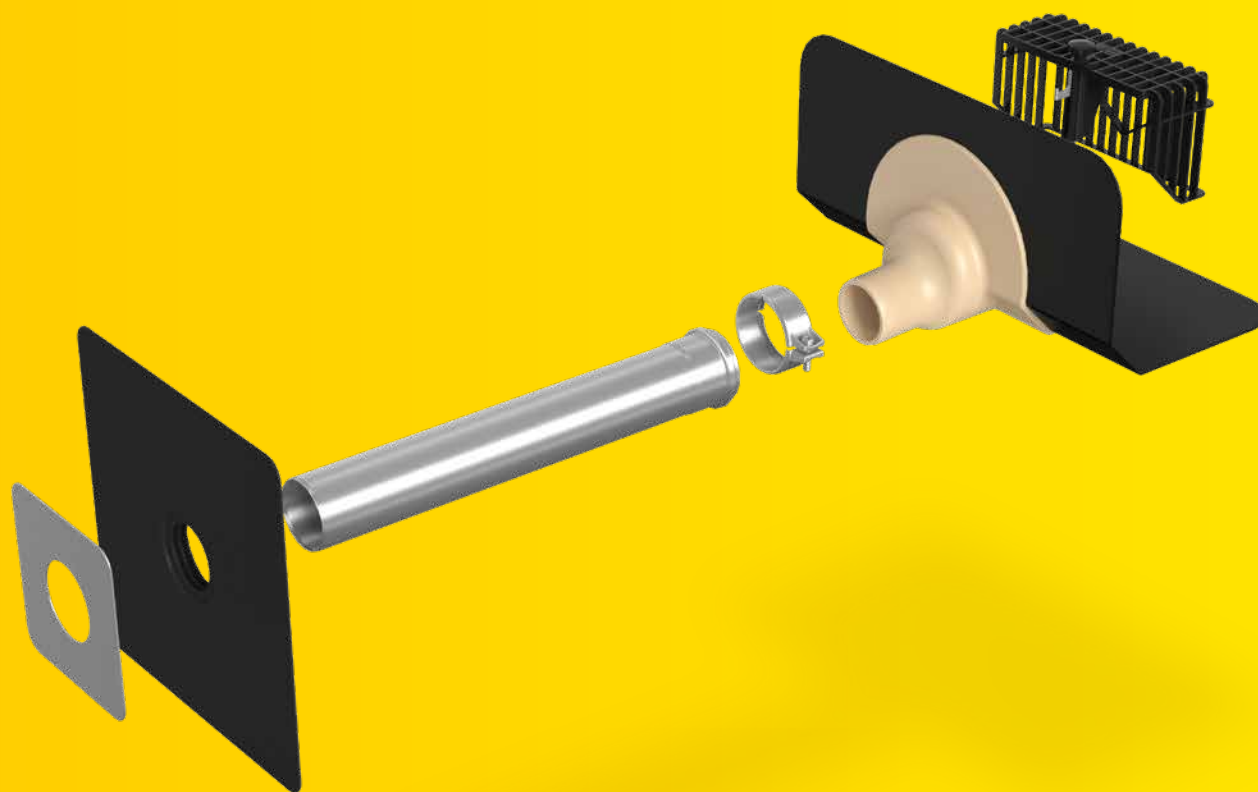
Roof structure

Non-ventilated roof structure with slab paving on support pads to the general rules of engineering with:

- + Slab paving on support pads
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet lead-through with joint tape

SitaEasy Go

Safe parapet drainage made easy.



- + For main and emergency drainage
- + With bitumen sleeve
- + With angled flange
- + Available with flexible vapour barrier plate
- + With use of the SitaPipe stainless steel pipe system



SitaEasy Go



SitaEasy Go
Dome grate



SitaEasy Go
Retaining element



SitaMore
PE connection pipe



SitaMore
Vapour barrier plate



SitaMore
Vapour barrier plate



SitaAttika
Cladding cover plate



SitaMore
Sealing sleeve

SitaEasy Go

Product features at a glance:

Product features

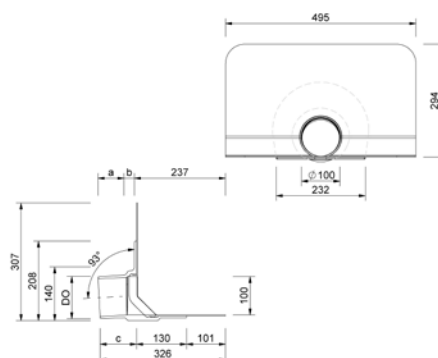
Applications	For main drainage on flat and slightly pitched, used and unused roof surfaces
Material	Polyurethane
Temperature resistance, min.	-20 °C
Temperature resistance, max.	80 °C
Material class	Euroclass E / B2 normal flammability
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable + With 45° wedge design
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.



Tender text

SitaEasy Go parapet outlet, made of polyurethane, in sizes DN 70 and DN 100. Angled fixed flange with 45° wedge design for direct welding of bitumen membranes. For direct connection of SitaAttika pipes combined with the SitaAttika safety clamp, with large foamed-in bitumen sleeve (495 mm x 495 mm). With securing ring for addition securing of the connection sleeve and to hold a dome grate, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	a (mm)	b (mm)	c (mm)	Article number
70	75	135	55	63	120	18 36 00
100	110	170	68	27	95	18 38 00

* OD = Outer diameter (mm)

Discharge rate according to DIN EN 1253-2

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.0	2.1	2.3	2.4	2.6	2.7
100	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.5	4.0	4.3

Discharge rate according to DIN EN 1253-2 with 2-metre downpipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.0	2.3	2.7	3.0	3.1	3.7
100	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.3	3.7	4.0	4.3



Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	2.0	2.3	2.7	3.0	4.0	5.0	6.0
100	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.3	3.7	4.0	4.6

SitaEasy Go

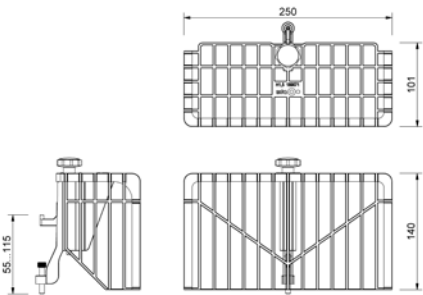
Dome grate



Tender text

SitaEasy Go dome grate, made of polyamide, for sizes DN 70 and DN 100.
For clamping to the fixing ring, with two height adjustment elements, supply and install to professional standards.

Technical drawing



Article number
18 90 71

SitaEasy Go

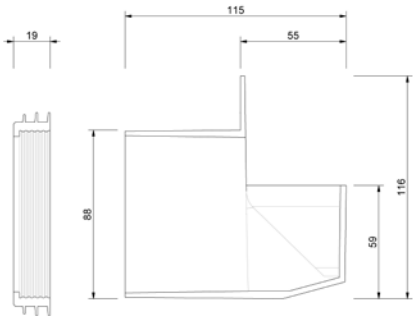
Retaining element



Tender text

SitaEasy Go retaining element, made of polyamide, for emergency drainage, for SitaEasy Go parapet drains, for retaining heights of 15 mm to 60 mm, can be shortened on site, with multi-lip sealing ring to seal the retaining unit to the parapet drain, supply and install to professional standards.

Technical drawing



Damming height from-to (mm)	Article number
15-60	18 90 76

SitaMore

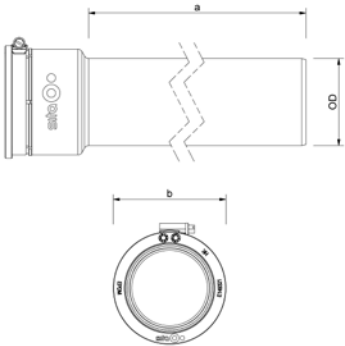
PE connection pipe



Tender text

SitaMore PE connection pipe, PE-HD socket pipe with inserted multi-lip EPDM seal and a hose clamp made of rust-proof stainless steel, material number 1.4401, for a secure connection to roof drains in sizes DN 70 or DN 100, supply and install to professional standards.

Technical drawing

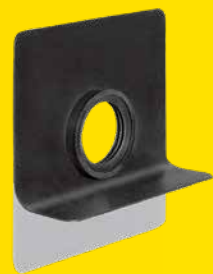


DN	OD*	a (mm)	b (mm)	Article number
70	75	500	97	18 55 90
		1000		18 55 92
		2000		18 55 95
100	110	500	132	18 55 91
		1000		18 55 94
		2000		18 55 96

* OD = Outer diameter (mm)

SitaMore

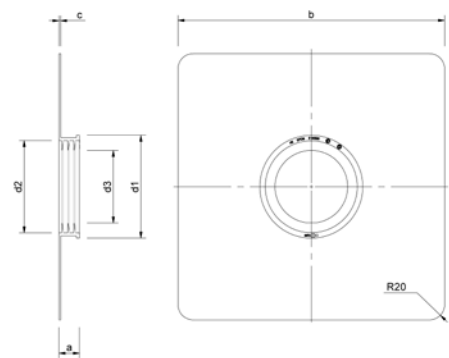
Vapour barrier plate



Tender text

SitaMore vapour barrier plate flex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 50, DN 70, DN 100, DN 125 and DN 150, with a multi-lip integrated sealing area, supply and install to professional standards.

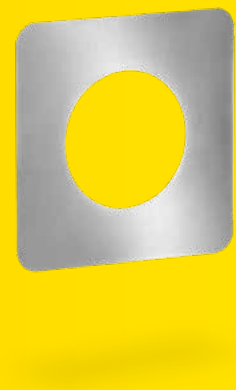
Technical drawing



DN	a (mm)	b (mm)	c (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Article number
50	27	352	2	76	62	44	18 50 90
70				105	91	67	18 70 90
100				136	122	96	18 00 90
125	28	400	3	159	145	119	18 12 90
150				195	181	153	18 60 90

SitaAttika

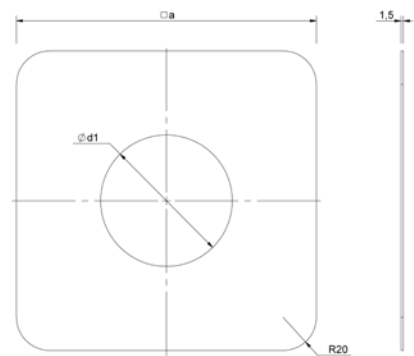
Cladding cover plate



Tender text

SitaAttika cladding cover plate, made of rust-proof stainless steel, material number 1.4301, to cover the parapet or wall opening in sizes DN 50 to DN 200, material thickness 1.5 mm, supply and install to professional standards.

Technical drawing



DN	a (mm)	d1 (mm)	Article number
50	155	54	E 18 90 25
70	180	79	E 18 90 26
100	215	114	E 18 90 27
125	230	129	E 18 90 28
150	265	165	E 18 90 29
200	303	203	E 18 90 45

SitaMore

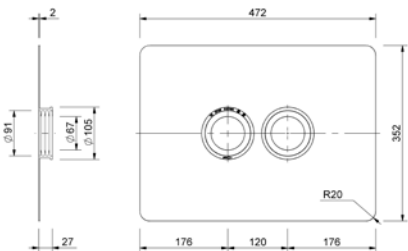
Vapour barrier plate



Tender text

SitaMore vapour barrier plate Duoflex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 70, with two multi-lip integrated sealing areas, supply and install to professional standards.

Technical drawing



Compatibility	Article number
SitaIndra, SitaEasy, SitaPipe stainless steel pipe	18 76 90

SitaMore

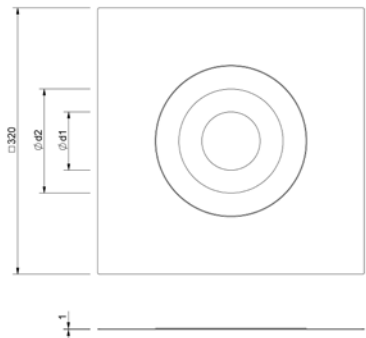
Sealing sleeve



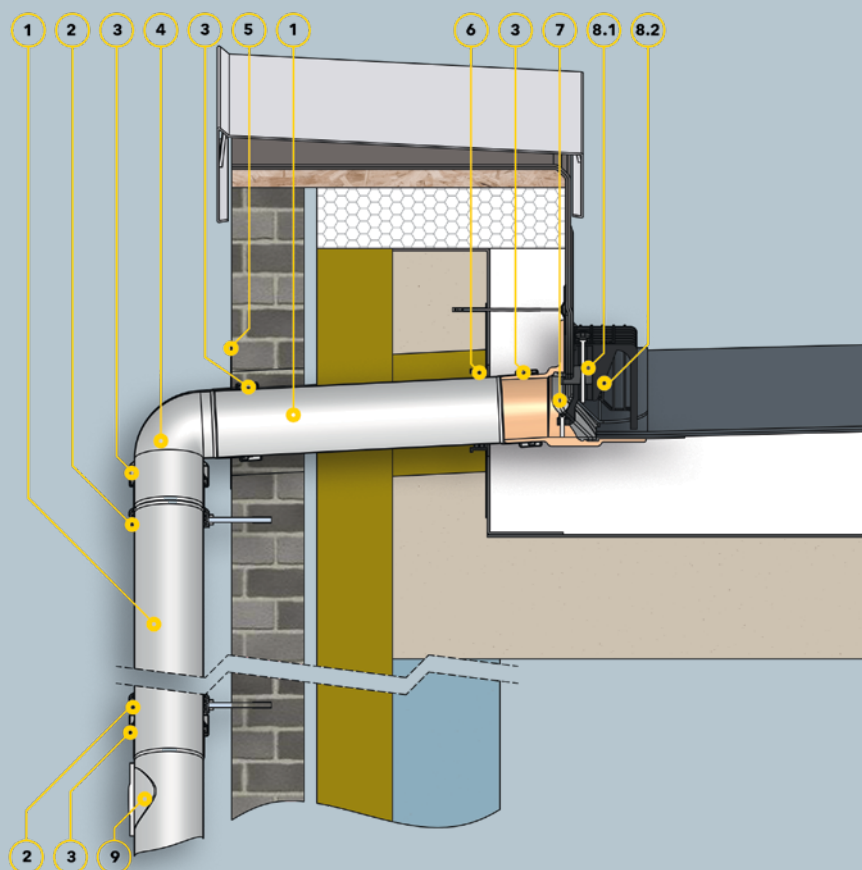
Tender text

SitaMore sealing sleeve for WDVS, made of fleece-butyl, one-part render-compatible air sealing sleeve designed to be concealed in plastic, for the rapid and airtight sealing of pipe fairleads in the thermal insulation composite system according to DIN 4108-7 and GEG, in sizes DN 70 and DN 100, measuring 320 x 320 mm, with highly flexible EPDM seal, self-adhesive render-compatible fleece butyl collar for permanent bonding to the substrate (adhesion primer may be necessary) and between the fleece bonding surface and the render, supply and install to professional standards.

Technical drawing



DN	d1 (mm)	d2 (mm)	Article number
70	45	110	18 00 75
100	70	125	18 00 11



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaPipe stainless steel pipe clamp
- 3 SitaPipe stainless steel safety clamp
- 4 SitaPipe stainless steel bend
- 5 SitaAttika cladding cover plate
- 6 SitaMore vapour barrier plate flex
- 7 SitaEasy Go

SitaEasy dome grate consisting of:

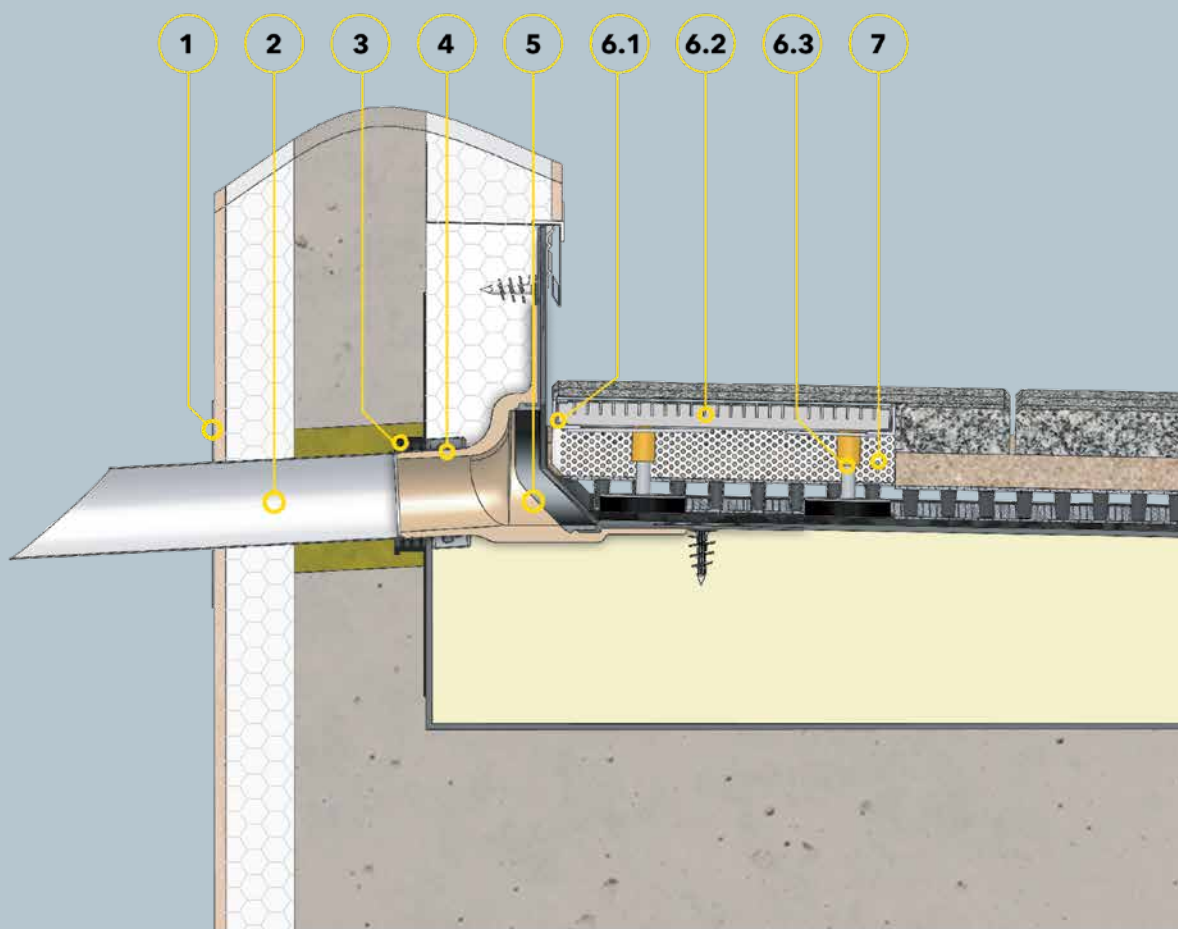
- 8.1 Latch
- 8.2 Dome grate basket

- 9 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



Components

- 1 SitaAttika cladding cover plate
- 2 SitaPipe stainless steel pipe
- 3 SitaMore vapour barrier plate flex
- 4 SitaPipe stainless steel safety clamp
- 5 SitaEasy Go

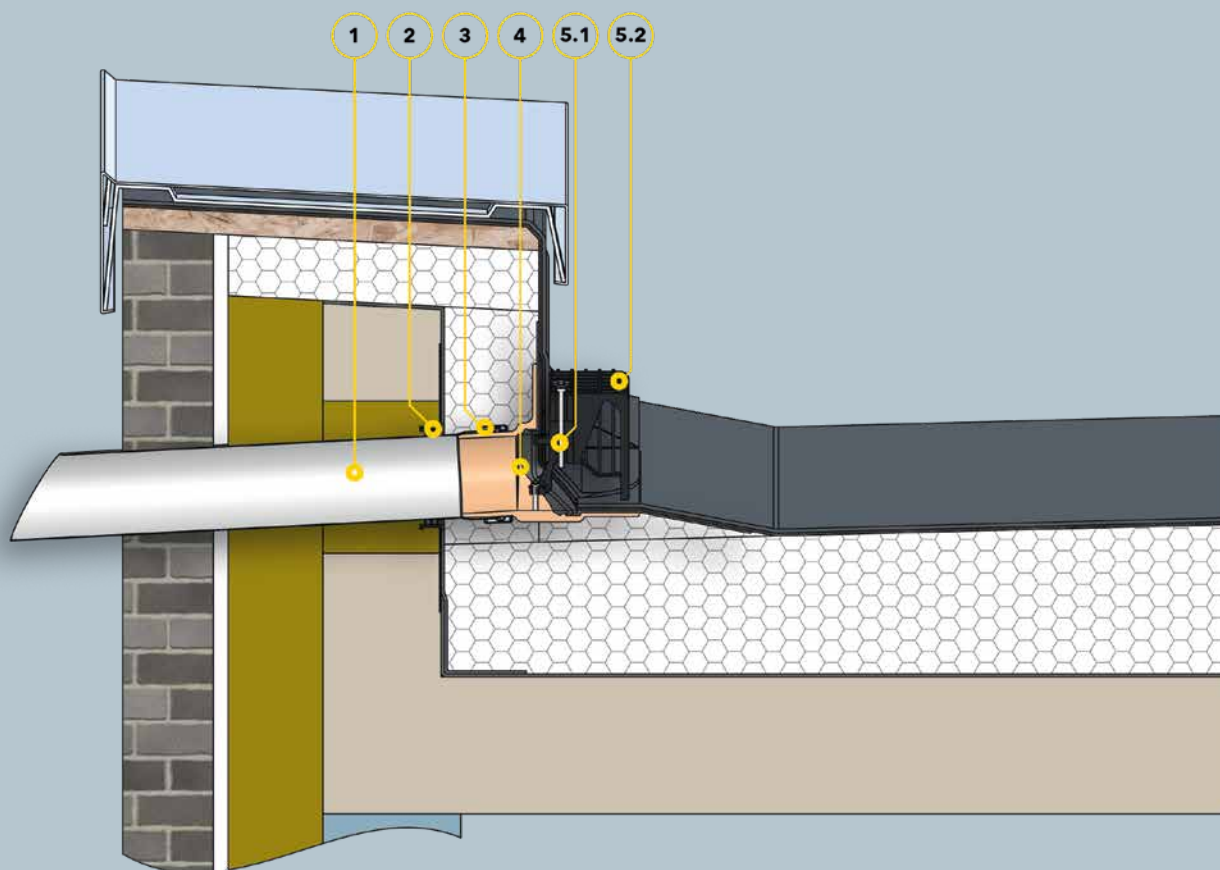
SitaDrain® Terra consisting of:

- 6.1 Frame
- 6.2 Inspection grate
- 6.3 Height-adjustable rubber feet
- 7 SitaDrain® gravel strip

Roof structure

Non-ventilated roof structure with slab paving in a gravel bed to the general rules of engineering with:

- + Slab paving
- + Gravel bed
- + Filter fabric
- + Surface drainage
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet lead-through with joint tape



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaMore vapour barrier plate flex
- 3 SitaPipe stainless steel safety clamp
- 4 SitaEasy Go

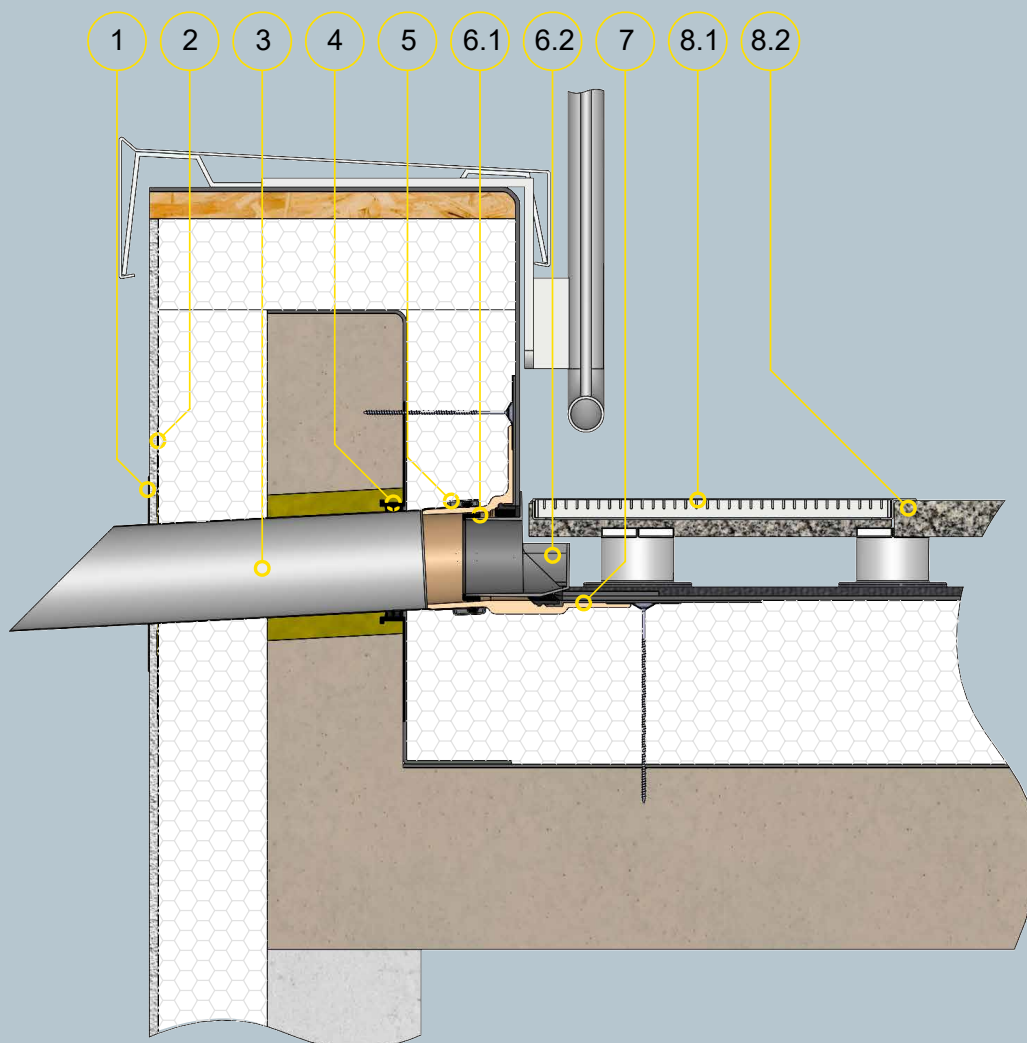
SitaEasy Go dome grate consisting of:

- 5.1 Latch
- 5.2 Dome grate basket

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



Components

- 1 SitaAttika facade cover panel
- 2 SitaMore sealing collar for ETICS
- 3 SitaPipe stainless steel pipe
- 4 SitaMore vapor barrier plate flex
- 5 SitaPipe stainless steel pipe clamp

SitaEasy Go retaining element
consisting of:

- 6.1 Seal
- 6.2 Retaining element base body

- 7 SitaEasy Go

SitaDrain profile frame consisting of:

- 8.1 Grating
- 8.2 Profile frame

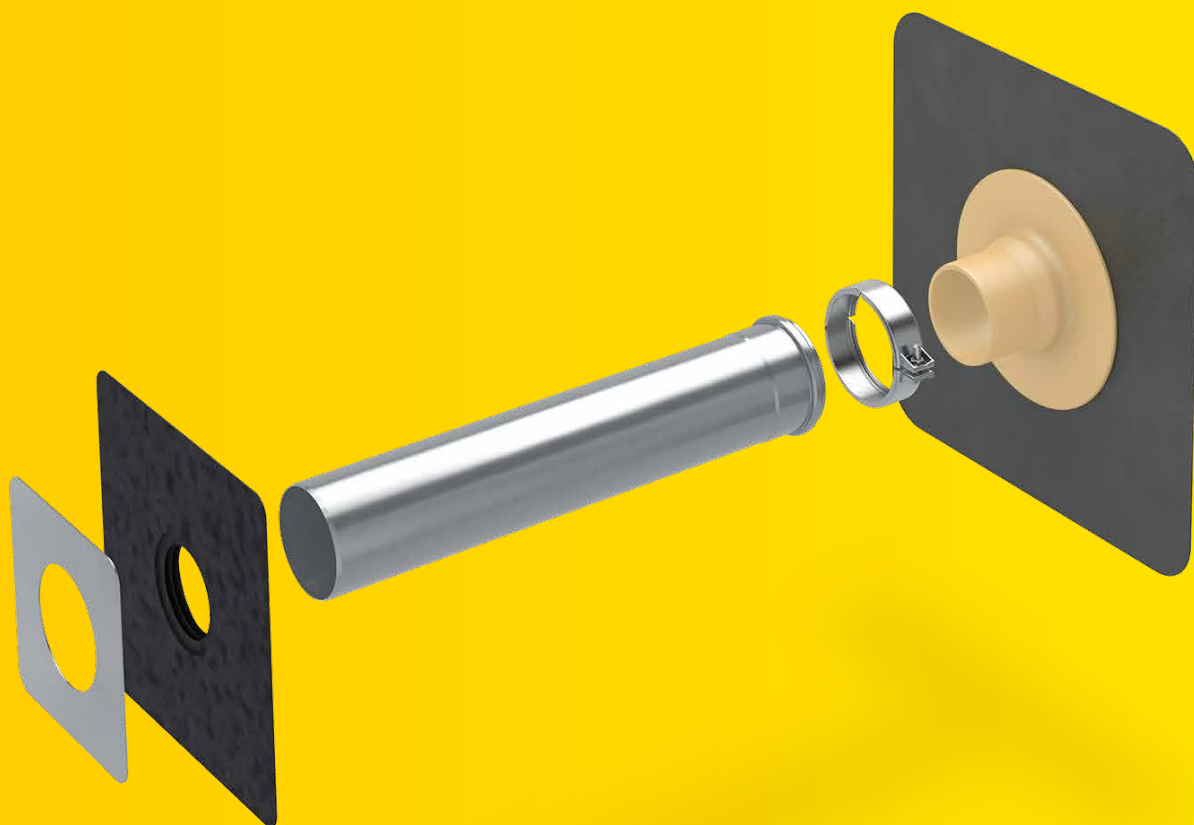
Roof structure

Roof structure to the general rules of engineering with:

- + Slab covering on pedestal support
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure

SitaEasy Plus

Safe parapet drainage made easy.



- + For emergency drainage
- + With connection sleeve of choice
- + With straight flange
- + Available with flexible vapour barrier plate
- + With use of the SitaPipe stainless steel pipe system



SitaEasy Plus



SitaMore
PE connection pipe



SitaMore
Vapour barrier plate



SitaAttika
Cladding cover plate



SitaMore
Sealing sleeve



SitaMore
Adapter

SitaEasy Plus

Product features at a glance:

Product features

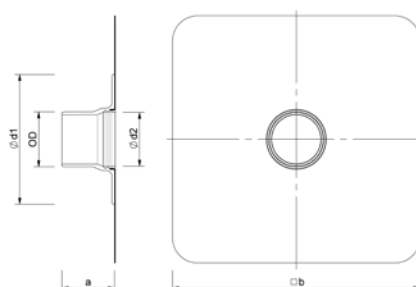
Applications	For emergency drainage on flat and slightly pitched, used and unused roof surfaces
Material	Polyurethane
Temperature resistance, min.	-20 °C
Temperature resistance, max.	80 °C
Material class	Euroclass E / B2 normal flammability
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable
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.



Tender text

SitaEasy Plus parapet outlet, made of polyurethane, thermally insulated, in sizes DN 70, DN 100, DN 125 and DN 150, with straight fixed flange. For direct connection of pipes with plug-in coupler, with large foamed-in connection sleeve of choice (495 mm x 495 mm or 300 mm x 300 mm for DN 70), with fixing ring for additional securing of the connection sleeve (for DN 100 to DN 150) and to hold an optional dome grate, for emergency drainage, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	a (mm)	b (mm)	d1 (mm)	d2 (mm)	Article number
70	75	135	71	300	205	65	18 02 xx**
100	110	170	105	495	260	108	18 04 xx
125	125	185					18 06 xx
150	160	220	115		293	146	18 08 xx

* OD = Outer diameter (mm)

** Apart from final numbers 03 (Firestone Quickseam SA Flashing), 82 (Hertalan with joining edge) and 84 (Novoproof with all-over join).

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.3	1.5	1.8	2.0	2.2	2.3	2.5	2.7	2.8
100	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.6	1.9	2.2	2.4	2.8	3.2	3.5	4.0	4.4	4.9	5.4
125	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.6	3.0	3.4	3.7	4.0	4.5	5.0
150	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1	2.6	3.0	3.5	4.0	4.5	5.0	5.6	6.1	7.0

Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Retaining height (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.1	0.1	0.2	0.3	0.4	0.6	0.8	0.8	0.9	1.1	1.2	1.5	1.7	2.3	2.5	2.6	2.8	2.9	2.9	2.9
100	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.3	1.6	1.9	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
125	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.3	1.6	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
150	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1	2.6	3.0	3.5	4.0	4.4	5.1	5.6	6.2	7.0

SitaMore

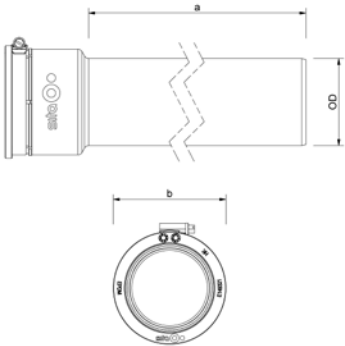
PE connection pipe



Tender text

SitaMore PE connection pipe, PE-HD socket pipe with inserted multi-lip EPDM seal and a hose clamp made of rust-proof stainless steel, material number 1.4401, for a secure connection to roof drains in sizes DN 70 or DN 100, supply and install to professional standards.

Technical drawing

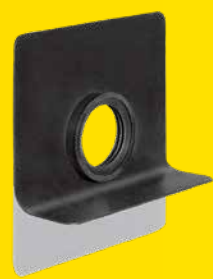


DN	OD*	a (mm)	b (mm)	Article number
70	75	500	97	18 55 90
		1000		18 55 92
		2000		18 55 95
100	110	500	132	18 55 91
		1000		18 55 94
		2000		18 55 96

* OD = Outer diameter (mm)

SitaMore

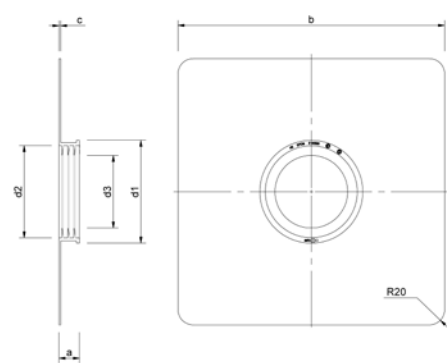
Vapour barrier plate



Tender text

SitaMore vapour barrier plate flex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 50, DN 70, DN 100, DN 125 and DN 150, with a multi-lip integrated sealing area, supply and install to professional standards.

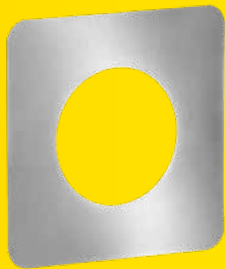
Technical drawing



DN	a (mm)	b (mm)	c (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Article number
50	27	352	2	76	62	44	18 50 90
70				105	91	67	18 70 90
100				136	122	96	18 00 90
125	28	400	3	159	145	119	18 12 90
150				195	181	153	18 60 90

SitaAttika

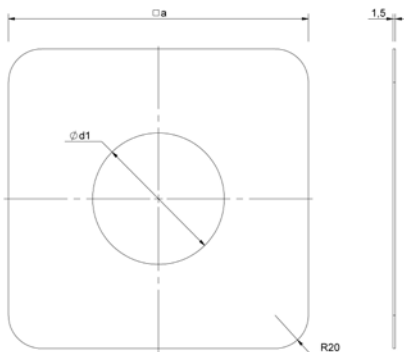
Cladding cover plate



Tender text

SitaAttika cladding cover plate, made of rust-proof stainless steel, material number 1.4301, to cover the parapet or wall opening in sizes DN 50 to DN 200, material thickness 1.5 mm, supply and install to professional standards.

Technical drawing



DN	a (mm)	d1 (mm)	Article number
50	155	54	E 18 90 25
70	180	79	E 18 90 26
100	215	114	E 18 90 27
125	230	129	E 18 90 28
150	265	165	E 18 90 29
200	303	203	E 18 90 45

SitaMore

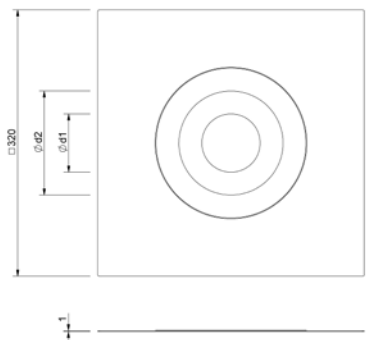
Sealing sleeve



Tender text

SitaMore sealing sleeve for WDVS, made of fleece-butyl, one-part render-compatible air sealing sleeve designed to be concealed in plastic, for the rapid and airtight sealing of pipe fairleads in the thermal insulation composite system according to DIN 4108-7 and GEG, in sizes DN 70 and DN 100, measuring 320 x 320 mm, with highly flexible EPDM seal, self-adhesive render-compatible fleece butyl collar for permanent bonding to the substrate (adhesion primer may be necessary) and between the fleece bonding surface and the render, supply and install to professional standards.

Technical drawing



DN	d1 (mm)	d2 (mm)	Article number
70	45	110	18 00 75
100	70	125	18 00 11

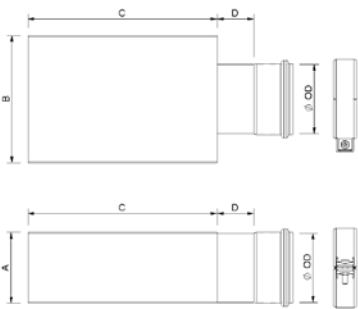
SitaMore Adapter



Tender text

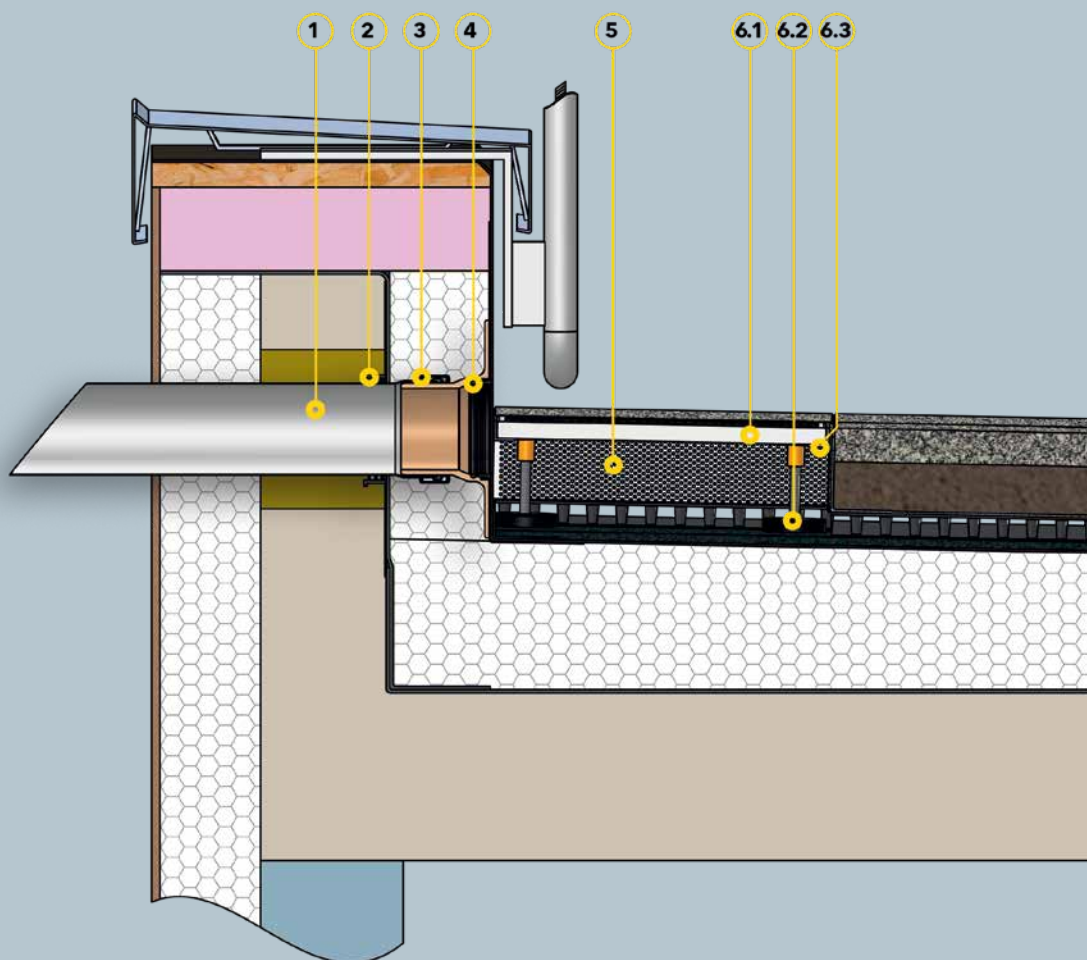
SitaMore transition piece, made of stainless steel, material number 1.4301, in sizes DN 50, DN 70, DN 100 and DN 125, for transition from SitaPipe stainless steel pipe to rectangular pipe, with safety clamp and sealing ring, supply and install to professional standards.

Technical drawing



DN	OD*	A	B	C	D	Article number
50	50	Hight Flat channel	Width Flat channel	Length Flat channel	Distance Muffe Flat channel	18 18 50
70	75					18 18 70
100	110					18 18 10
125	125					18 18 12

* OD = Outer diameter (mm)



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaMore vapour barrier plate flex
- 3 SitaPipe stainless steel safety clamp
- 4 SitaEasy Plus
- 5 SitaDrain® gravel strip

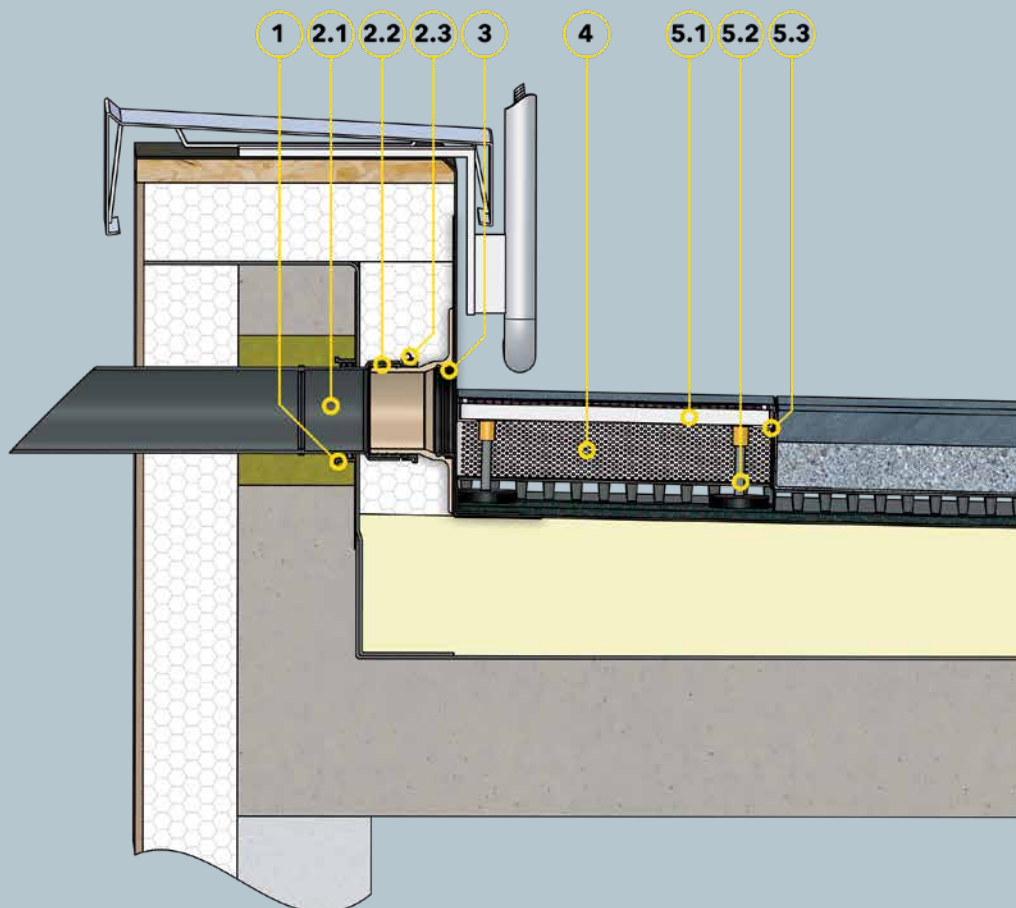
SitaDrain® Terra consisting of:

- 6.1 Inspection grate
- 6.2 Height-adjustable rubber feet
- 6.3 Frame

Roof structure

Non-ventilated roof structure with slab paving in a gravel bed to the general rules of engineering with:

- + Slab paving
- + Gravel bed
- + Filter fabric
- + Surface drainage
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet lead-through with joint tape



Components

1 SitaMore vapour barrier plate flex

SitaMore PE connection pipe consisting of:

2.1 PE connection sleeve with pipe

2.2 Seal

2.3 Hose clamp

3 SitaEasy Plus

4 SitaDrain® gravel strip

SitaDrain® Terra consisting of:

5.1 Inspection grate

5.2 Height-adjustable rubber feet

5.3 Frame

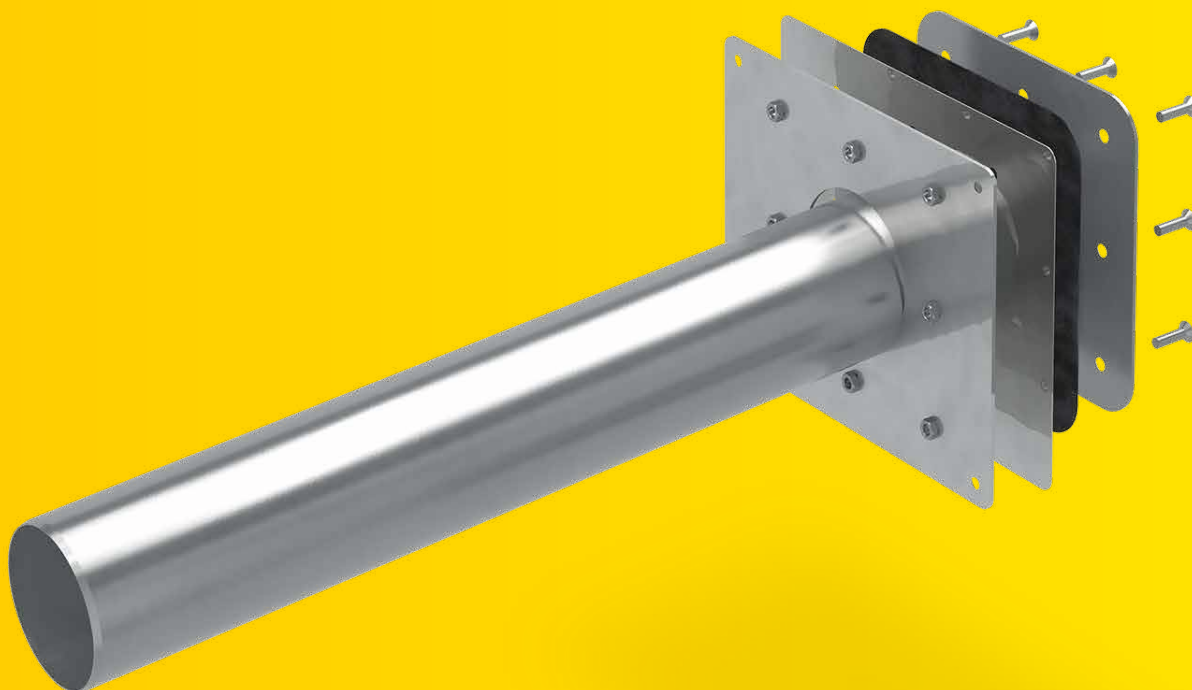
Roof structure

Non-ventilated roof structure with slab paving in a gravel bed to the general rules of engineering with:

- + Slab paving
- + Gravel bed
- + Filter fabric
- + Surface drainage
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet lead-through with joint tape

SitaSpy

Emergency drainage with an attractive appearance.



- + Visually attractive through countersunk screw connections
- + Screw-on flange construction
- + With a pipe length of 800 mm
- + Inclination 3°



SitaSpy



SitaMore
Vapour barrier plate



SitaAttika
Cladding cover plate



SitaMore
Sealing sleeve



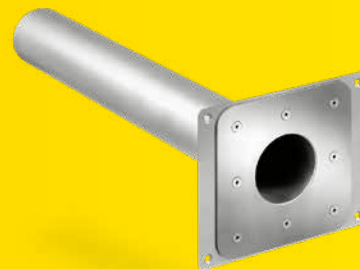
SitaMore
Adapter

SitaSpy

Product features at a glance:

Product features

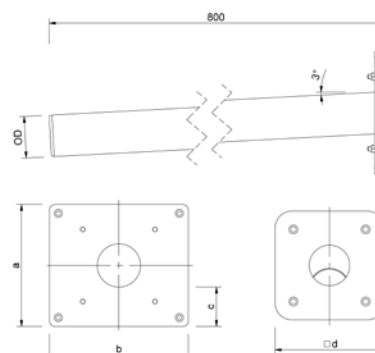
Applications	For emergency drainage through the parapets of used and unused, flat and slightly pitched roof areas
Material	Rust-proof stainless steel
Temperature resistance, min.	-20 °C
Temperature resistance, max.	80 °C
Material class	Euroclass A1 /A1 non-flammable
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable
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.



Tender text

SitaSpy parapet outlet, made of rust-proof stainless steel, material number 1.4301, in sizes DN 50, DN 70, DN 100, with loose/fixed flange construction. For clamping bitumen, plastic or EPDM roofing membranes, with sealing sleeves and recessed screw connections with countersunk holes for fixing to the parapet. With a pipe length of 800 mm, with 3 degree inclination, supply and install to professional standards.

Technical drawing



DN	OD*	a (mm)	b (mm)	c (mm)	d (mm)	Article number
50	50	196	226	71	176	18 41 99
70	75	220	250		196	18 42 99
100	110	250	300	169	240	18 44 99

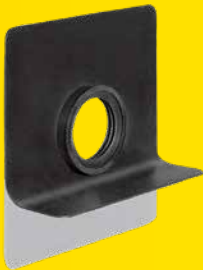
* OD = Outer diameter (mm)

Discharge rate according to DIN EN 1253-2 with 4-metre downpipe

DN	Execution	Retaining hight (mm)																			
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	as waterspout	-	-	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	with downpipe	-	-	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.5
70	as waterspout	-	-	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.2	1.3	1.5	1.8	2.0	2.2	2.3	2.5	2.7	2.9
	with downpipe	-	-	-	0.2	0.3	0.4	0.5	0.8	0.9	1.1	1.4	1.7	1.9	2.0	2.6	2.6	2.6	2.6	2.6	2.6
100	as waterspout	-	0.2	0.2	0.3	0.4	0.7	0.9	1.1	1.6	1.9	2.2	2.5	2.7	3.1	3.6	3.9	4.1	4.5	5.0	5.4
	with downpipe	-	-	0.2	0.4	0.5	0.7	0.8	1.0	1.3	1.6	1.9	2.2	2.5	3.0	3.5	3.5	3.5	3.5	3.5	3.5

SitaMore

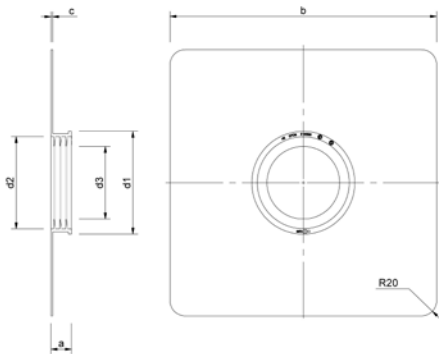
Vapour barrier plate



Tender text

SitaMore vapour barrier plate flex, made of EPDM, with adhesive flange for flexible vapour-tight connection of the vapour barrier to round pipes in sizes DN 50, DN 70, DN 100, DN 125 and DN 150, with a multi-lip integrated sealing area, supply and install to professional standards.

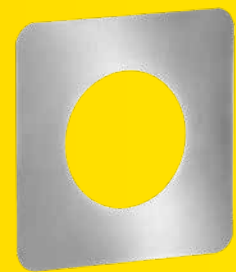
Technical drawing



DN	a (mm)	b (mm)	c (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Article number
50	27	352	2	76	62	44	18 50 90
70				105	91	67	18 70 90
100				136	122	96	18 00 90
125	28	400	3	159	145	119	18 12 90
150				195	181	153	18 60 90

SitaAttika

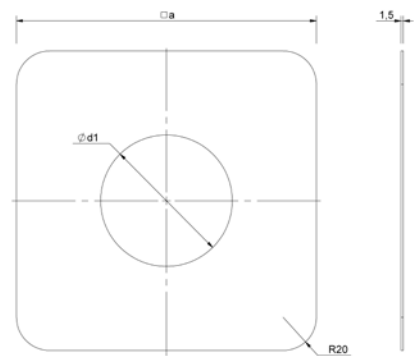
Cladding cover plate



Tender text

SitaAttika cladding cover plate, made of rust-proof stainless steel, material number 1.4301, to cover the parapet or wall opening in sizes DN 50 to DN 200, material thickness 1.5 mm, supply and install to professional standards.

Technical drawing



DN	a (mm)	d1 (mm)	Article number
50	155	54	E 18 90 25
70	180	79	E 18 90 26
100	215	114	E 18 90 27
125	230	129	E 18 90 28
150	265	165	E 18 90 29
200	303	203	E 18 90 45

SitaMore

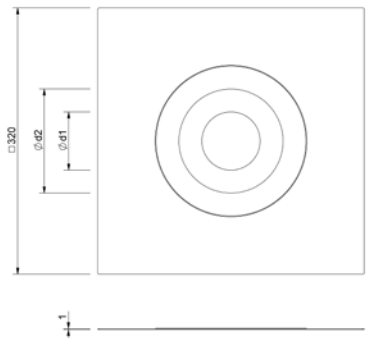
Sealing sleeve



Tender text

SitaMore sealing sleeve for WDVS, made of fleece-butyl, one-part render-compatible air sealing sleeve designed to be concealed in plastic, for the rapid and airtight sealing of pipe fairleads in the thermal insulation composite system according to DIN 4108-7 and GEG, in sizes DN 70 and DN 100, measuring 320 x 320 mm, with highly flexible EPDM seal, self-adhesive render-compatible fleece butyl collar for permanent bonding to the substrate (adhesion primer may be necessary) and between the fleece bonding surface and the render, supply and install to professional standards.

Technical drawing



DN	d1 (mm)	d2 (mm)	Article number
70	45	110	18 00 75
100	70	125	18 00 11

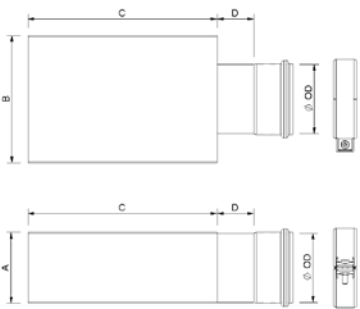
SitaMore Adapter



Tender text

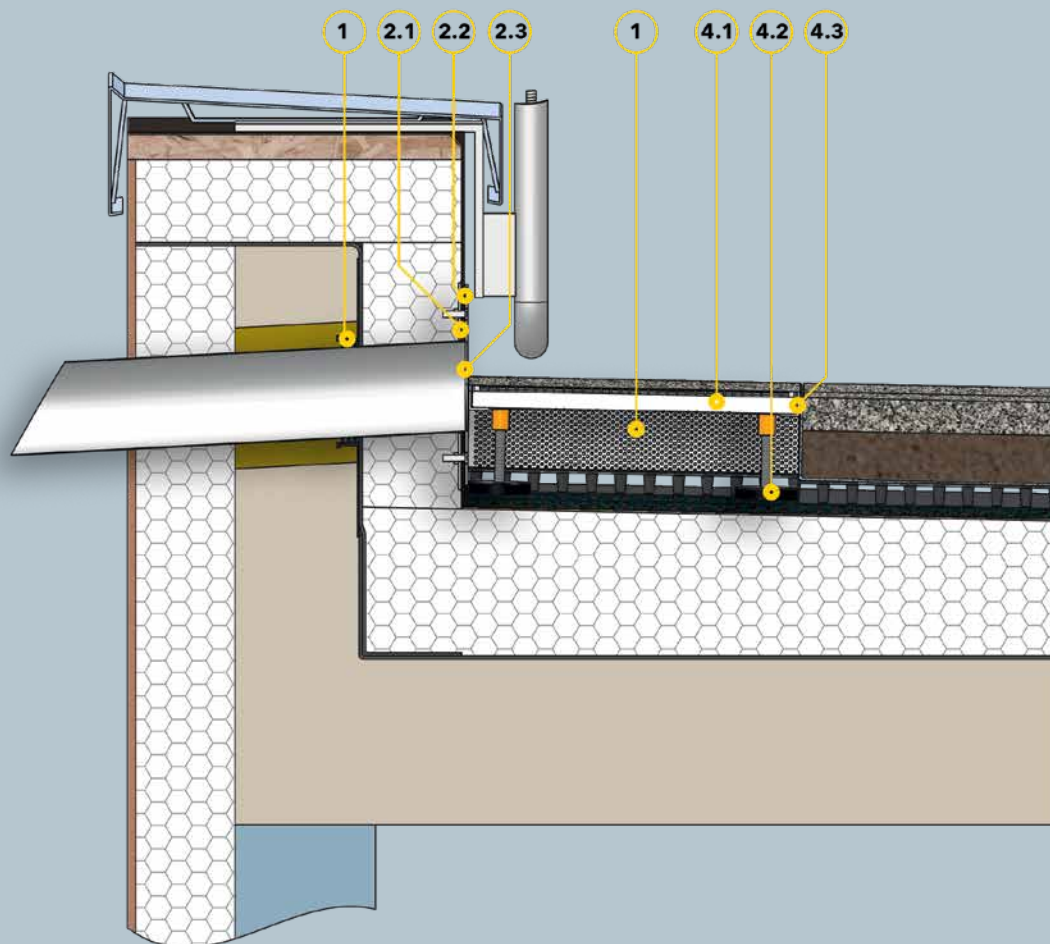
SitaMore transition piece, made of stainless steel, material number 1.4301, in sizes DN 50, DN 70, DN 100 and DN 125, for transition from SitaPipe stainless steel pipe to rectangular pipe, with safety clamp and sealing ring, supply and install to professional standards.

Technical drawing



DN	OD*	A	B	C	D	Article number
50	50	Hight Flat channel	Width Flat channel	Length Flat channel	Distance Muffe Flat channel	18 18 50
70	75					18 18 70
100	110					18 18 10
125	125					18 18 12

* OD = Outer diameter (mm)



Components

- 1** SitaMore vapour barrier plate flex

SitaSpy consisting of:

- 2.1** Fixed flange
- 2.2** Screws and sealing sleeves
- 2.3** Loose flange with waterspout

- 3** SitaDrain® gravel strip

SitaDrain® Terra consisting of:

- 4.1** Inspection grate
- 4.2** Height-adjustable rubber feet
- 4.3** Frame

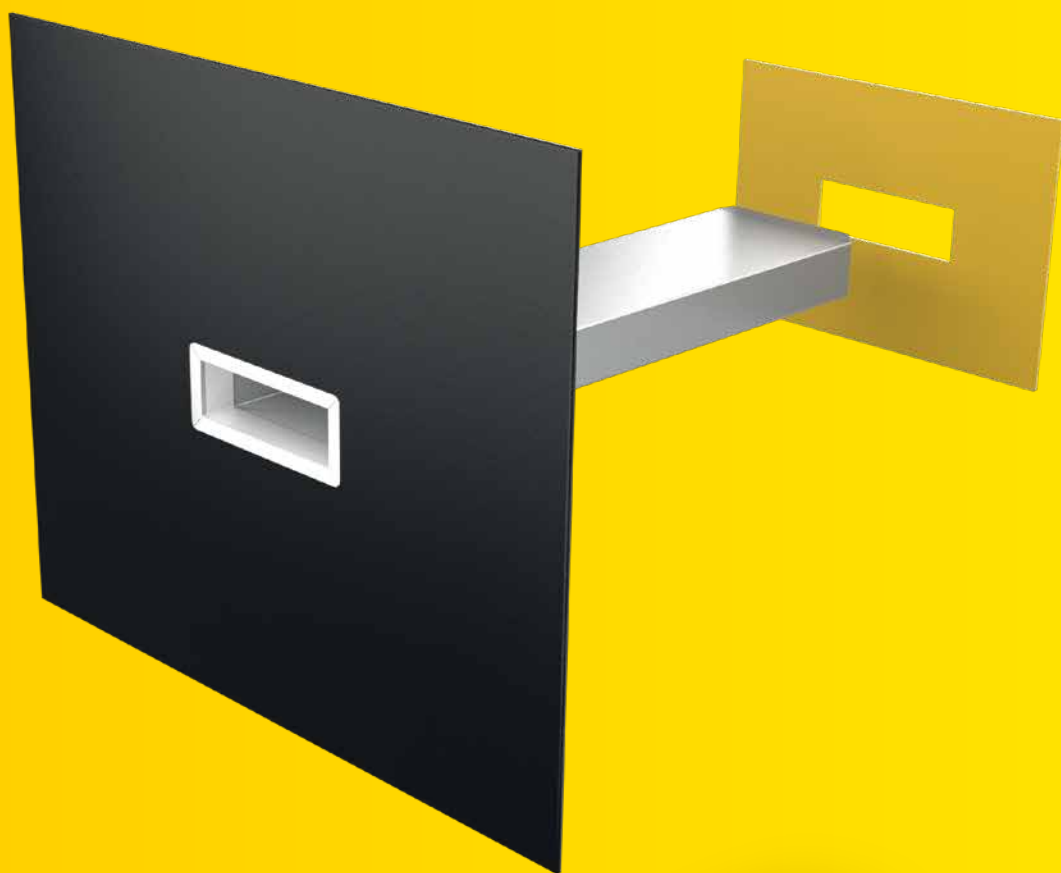
Roof structure

Non-ventilated roof structure with slab paving in a gravel bed to the general rules of engineering with:

- + Slab paving
- + Gravel bed
- + Filter fabric
- + Surface drainage
- + Protective mat
- + Sealing
- + Thermal insulation
- + Vapour barrier
- + Substructure
- + Parapet lead-through with joint tape

SitaSteel Rectangular waterspout

Extremely durable. Versatile in use.



SitaSteel rectangular
waterspout

- + For emergency drainage
- + High-grade stainless steel
- + One-piece part



SitaSteel
Rectangular waterspout



SitaSteel
Rectangular waterspout
Fluid



SitaSteel
Vapour barrier plate



SitaSteel
Cladding cover plate

SitaSteel Rectangular waterspout

Product features at a glance:

Produktmerkmale

Applications	For main and emergency drainage to DIN EN 12056-3 and DIN 1986-100 for used and unused flat and gently sloped roofs
Material	stainless steel
material number	1.4401
Anschlussart	Bitumen-sleeve, adhesive flange
Temperature resistance, min.	-20 °C
Material class	A1 non-flammable
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable
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

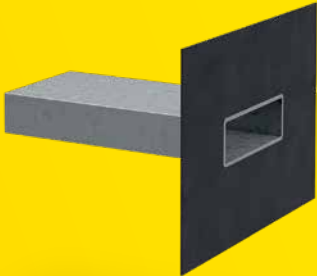


Bauart geprüft
und überwacht

www.tuv.com
ID 1111215928

SitaSteel

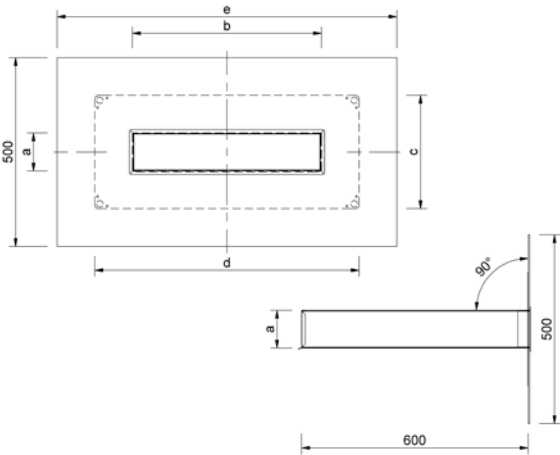
Rectangular waterspout



Tender text

SitaSteel Rectangular waterspout, made of stainless steel, material no. 1.4401 spigot and 1.4301 flange, according to DIN EN 1253-2, spigot dimension 150 mm x 50 mm, 300 mm x 100 mm, 500 mm x 100 mm, with a spigot length of 600 mm and 3 degree inclination, with integrated selected connection sleeve, with pre-cut recesses in the flange for fixing to the parapet, supply and installation to professional standards.

Technical drawing



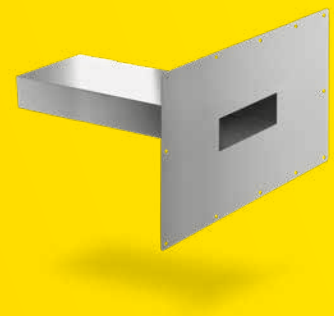
Pipe cross-section (mm x mm)	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	Article number
150 x 50	50	150	250	350	600	30 10 10 00
300 x 100	100	300	300	500	700	30 10 11 00
500 x 100	100	500	300	700	900	30 10 12 00

Discharge rate according to DIN EN 1253

	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
150 x 50	0.1	0.2	0.3	0.5	0.7	1.1	1.4	1.9	2.3	2.7	2.9	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.0
300 x 100	0.3	0.6	0.9	1.5	2.0	2.6	3.2	3.9	4.6	5.8	6.3	6.9	7.7	8.5	9.3	10.1	11.2	12.2	13.2	14.2
500 x 100	0.5	0.9	1.4	2.4	3.4	4.5	5.5	6.7	7.8	9.6	10.5	11.5	12.8	14.0	15.5	17.0	18.5	20.0	21.6	23.2

SitaSteel

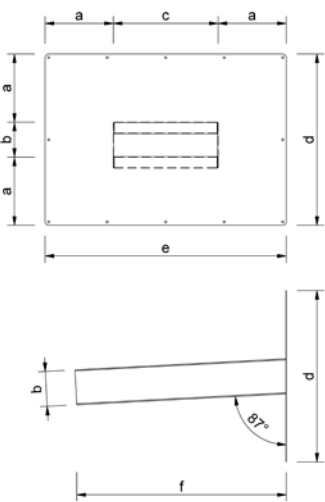
Rectangular waterspout Fluid



Tender text

SitaSteel rectangular waterspout Fluid, made of stainless steel, material number 1.4401, in sizes 150 mm x 50 mm, 300 mm x 100 mm and 500 mm x 100 mm, with a spigot length of 600 mm and a spigot inclination of 3 degrees, for liquid plastic waterproofing with a circumferential flange with a width of 196 mm, with pre-punched recesses in the flange for fastening to the parapet, and install them professionally.

Technical drawing



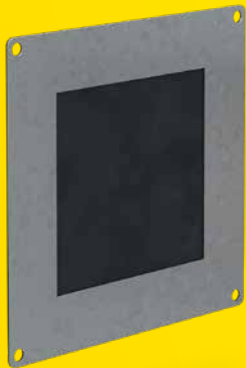
Pipe cross-section (mm x mm)	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	Article number
150 x 50	195	50	150	440	540	600	31 06 15 90
300 x 100	195	100	300	490	690	600	31 06 30 90
500 x 100	195	100	500	490	890	600	31 06 50 90

Discharge rate according to DIN EN 1253

	Retaining hight (mm)																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
150 x 50	0.1	0.2	0.3	0.5	0.7	1.1	1.4	1.9	2.3	2.7	2.9	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.0
300 x 100	0.3	0.6	0.9	1.5	2.0	2.6	3.2	3.9	4.6	5.8	6.3	6.9	7.7	8.5	9.3	10.1	11.2	12.2	13.2	14.2
500 x 100	0.5	0.9	1.4	2.4	3.4	4.5	5.5	6.7	7.8	9.6	10.5	11.5	12.8	14.0	15.5	17.0	18.5	20.0	21.6	23.2

SitaSteel

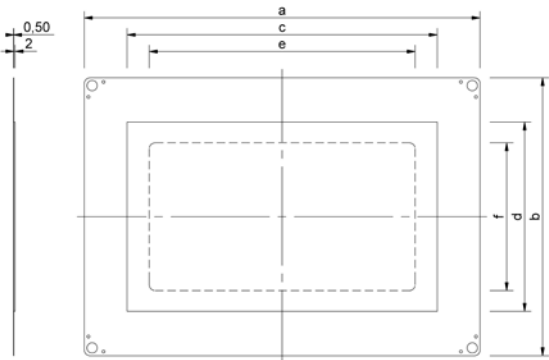
Vapour barrier plate



Tender text

SitaSteel vapour barrier plate, frame made of rust-proof stainless steel, material no. 1.4301, seal made of highly elastic EPDM, external dimensions 420 mm x 420 mm, 670 mm x 470 mm, 870 mm x 470 mm, with pre-drilled holes for fixing to the parapet, supply and installation to professional standards.

Technical drawing



Compatibility	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	Article number
SitaSteel rectangular waterspout 150 x 50 mm	420	420	280	280	200	200	30 50 40 90
SitaSteel rectangular waterspout 300x100	670	470	525	320	450	250	30 11 11 90
SitaSteel rectangular waterspout 500x100	870	470	725	320	650	250	30 11 12 90

SitaSteel

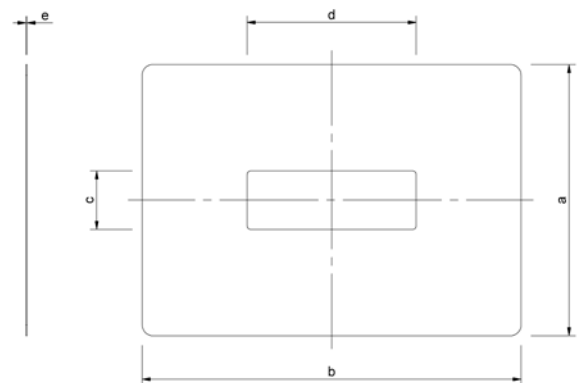
Cladding cover plate



Tender text

SitaSteel cladding cover plate, made of stainless steel, material number 1.4404, to cover the parapet or wall opening, material thickness 1.0 mm or 1.5 mm for SitaSteel parapet outlets, supply and install to professional standards.

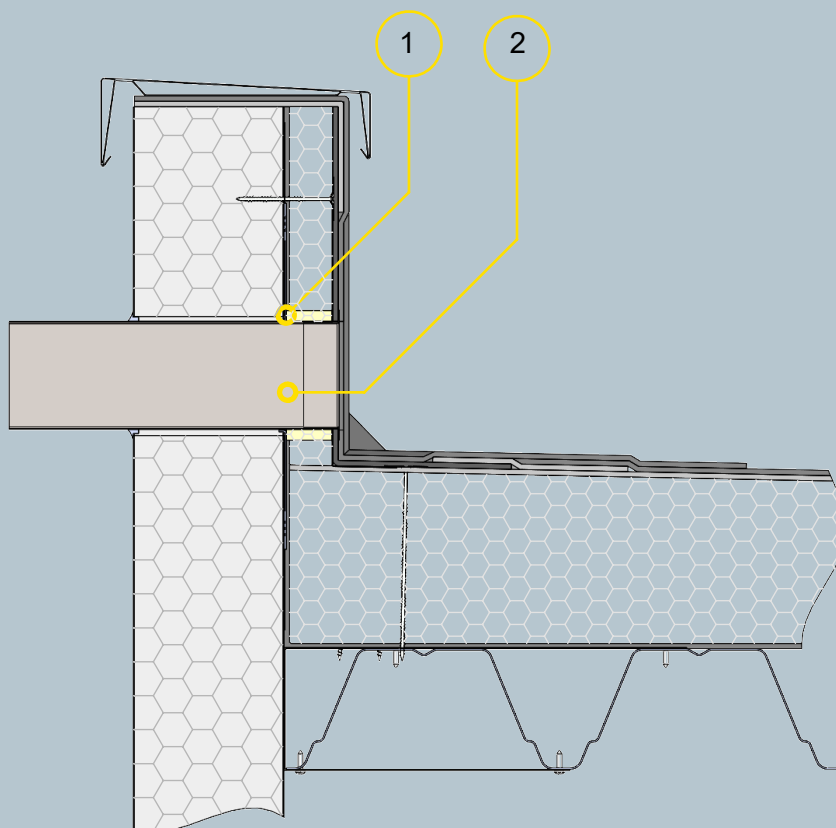
Technical drawing



Compatibility	Recess dimension (mm)	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	Article number
SitaSteel rectangular waterspout 150x50	152 x 52	250	350	54	156	1.0	30 11 10 91
SitaSteel rectangular waterspout 300x100	302 x 102	300	500	104	304	1.0	30 11 11 91
SitaSteel Rectangular waterspout 500x100	502 x 102	300	700	104	504	1.5	30 11 12 91

SitaSteel Rectangular waterspout

SitaSteel rectangular waterspout in a non-ventilated roof structure



Components

- 1 SitaSteel vapour barrier plate
- 2 SitaSteel rectangular waterspout

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

SitaMore Retaining element

Signal yellow. Very effective.



- + For emergency drainage to DIN EN 12056-3 and DIN 1986-100 of used and unused flat roofs
- + For combination with the Sita roof outlets
- + For conventional and siphonic drainage
- + With screw-on sealed cover



SitaMore
Retaining element for
SitaStandard / SitaMulti



SitaMore
Retaining element for
SitaTrendy / SitaSani



SitaDSS Multi
Retaining element



SitaDSS Profi
Retaining element



SitaIndra
Retaining element



SitaDSS Indra
Retaining element

SitaMore retaining element

Product features at a glance:

Produktmerkmale

Applications	For emergency drainage to DIN EN 12056-3 and DIN 1986-100 for used and unused flat roofs in conjunction with a Sita roof outlet
Material	Polyamide
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Long lifespan + Noticeable yellow colour to indicate the emergency drainage
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.

Qualitätsnachweise



SitaMore

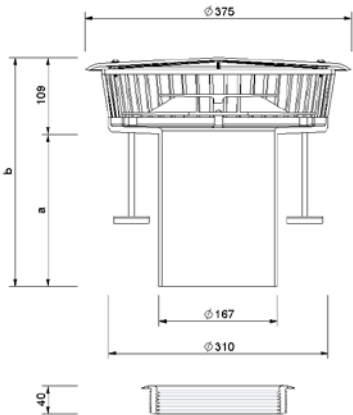
Retaining element for SitaStandard / SitaMulti



Tender text

SitaMore retaining element for SitaStandard and SitaMulti, made of poly-amide, to DIN EN 1253-2, for SitaStandard roof outlets and extension units for emergency drainage, adjustable height of the inlet edges of 25 mm – 105 mm, 135 mm – 150 mm or 150 mm – 200 mm and for SitaMulti roof outlets and extension units for emergency drainage, adjustable height of the inlet edges of 35 mm – 105 mm, 85 mm – 150 mm or 135 mm – 200 mm, with multi-lip angled sealing ring to seal the retaining element against the roof outlet or extension unit. With three infinitely height-adjustable rubber-metal buffers, installation area per foot: 19.6 cm², with galvanised threaded rod M8 x 90 mm, M8 x 140 mm, M8 x 190 mm with bolted sealed cover which can be removed for inspection, housing with 51 surrounding lugs, in yellow signal colour. Retaining heights are infinitely adjustable, with large inlet pot to increase discharge capacity, supply and install to professional standards.

Technical drawing



Compatibility	Damming height from-to (mm)	a (mm)	b (mm)	Article number
SitaStandard, SitaMulti	25-105	115	223	10 90 01
	85-150	214	323	10 90 07
	135-200	214	323	10 90 08

SitaMore

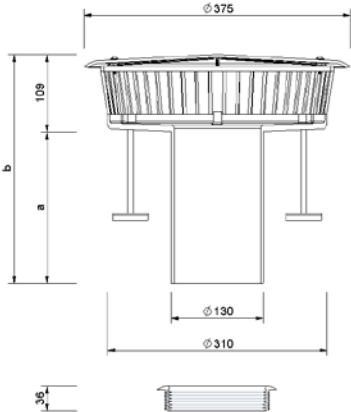
Retaining element for SitaTrendy / SitaSani



Tender text

SitaMore retaining element for SitaTrendy and SitaSani®, made of polyamide, according to DIN EN 1253-2, for SitaTrendy, SitaTrendy screw-on flange, SitaSani® 63, SitaSani® 90, SitaSani® 105 and SitaSani® 165 for emergency drainage, adjustable height of the inlet edges of 25 mm - 105 mm, 85 mm - 150 mm or 135 mm - 200 mm, with multi-lip angled sealing ring to seal the retaining element against the roof outlet or extension unit. With three infinitely height-adjustable rubber-metal buffers, installation area per foot: 19.6 cm², with galvanised threaded rod M8 x 90 mm, M8 x 140 mm, M8 x 190 mm with bolted sealed cover which can be removed for inspection, housing with 51 surrounding lugs, in yellow signal colour. Retaining heights infinitely adjustable, with large inlet pot to increase drainage volume, supply and install to professional standards.

Technical drawing



Compatibility	Damming height from-to (mm)	a (mm)	b (mm)	Article number
SitaTrendy / SitaSani	25-105	115	223	15 90 01
	85-150	214	323	15 90 07
	135-200	214	323	15 90 08

SitaDSS Multi

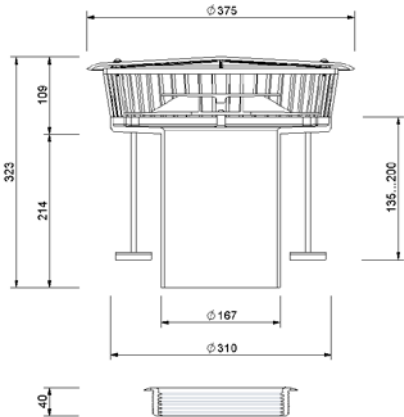
Rataining element



Tender text

SitaDSS Multi retaining element, made of polyamide, to DIN EN 1253-2, for SitaDSS Multi siphonic drainage rainwater outlet and extension units, for emergency drainage, for retaining heights of 35 mm - 105 mm, 85 mm - 150 mm or 135 mm - 200 mm, with multi-lip angled sealing ring to seal the retaining element against the roof outlet or extension unit. With three infinitely height-adjustable rubber-metal buffers, installation area per foot: 19.6 cm², with galvanised threaded rod M8 x 90 mm, M8 x 140 mm, M8 x 190 mm with bolted sealed cover which can be removed for inspection, housing with 51 surrounding ribs, in yellow signal colour. Retaining heights are infinitely adjustable, with large inlet pot to increase discharge capacity, supply and install to professional standards.

Technical drawing



Compatibility	Damming height from-to (mm)	a (mm)	b (mm)	Article number
SitaDSS Multi	25-105	115	223	12 90 01
	85-150	214	323	12 90 11
	135-200	214	323	12 90 12

SitaDSS Profi

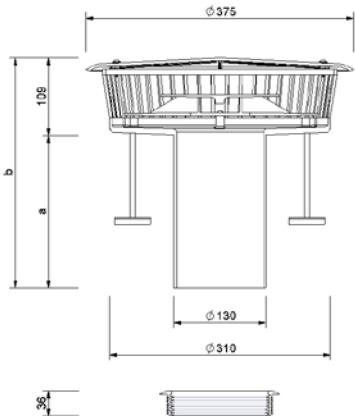
Retaining element



Tender text

SitaDSS Profi retaining element, made of polyamide, to DIN EN 1253-2, for SitaDSS Profi, SitaDSS Profi screw-on flange, siphonic drainage rainwater outlet and extension units for emergency drainage, adjustable height of the inlet edge of 25 - 200 mm, 105 mm - 85 mm or 150 mm - 135 mm, with multi-lip angled sealing ring to seal the retaining element against the roof outlet or extension unit. With three infinitely height-adjustable rubber-metal buffers, installation area per foot: 19.6 cm², with galvanised threaded rod M8 x 90 mm, M8 x 140 mm, M8 x 190 mm with bolted sealed cover which can be removed for inspection, housing with 51 surrounding ribs, in yellow signal colour. Retaining heights are infinitely adjustable, with large inlet pot to increase discharge capacity, supply and install to professional standards.

Technical drawing



Compatibility	Damming height from-to (mm)	a (mm)	b (mm)	Article number
SitaDSS Profi, SitaDSS Profi screw-on flange, SitaSani® 160 DSS, SitaSani® 160 DSS screw-on flange	25-105	115	223	14 90 01
	85-150	214	323	14 90 11
	135-200	214	323	14 90 12

Sitalndra

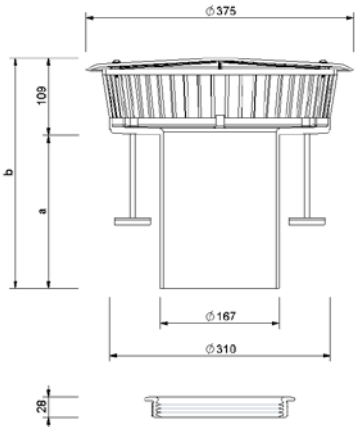
Retaining element



Tender text

Sitalndra retaining element, made of polyamide, according to DIN EN 1253-2, for Sitalndra roof outlets for emergency drainage, for retaining heights of 25 mm - 105 mm, 85 mm - 150 mm or 135 mm - 200 mm, with multi-lip angled sealing ring to seal the retaining element against the roof outlet. With three infinitely height-adjustable rubber-metal buffers, installation area per foot: 19.6 cm², with galvanised threaded rod M8 x 90 mm, M8 x 140 mm, M8 x 190 mm with bolted sealed cover which can be removed for inspection, housing with 51 surrounding ribs, in yellow signal colour. Retaining heights are infinitely adjustable, with large inlet pot to increase discharge capacity, supply and install to professional standards.

Technical drawing



Compatibility	Damming height from-to (mm)	a (mm)	b (mm)	Article number
Sitalndra	25-105	115	223	10 90 75
	85-150	214	323	10 90 76
	135-200	214	323	10 90 77

SitaDSS Indra

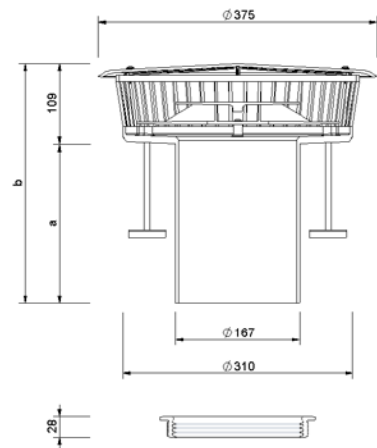
Retaining element



Tender text

SitaDSS Indra retaining element, made of polyamide, to DIN EN 1253-2, for SitaDSS Indra siphonic drainage rainwater outlets for emergency drainage, for retaining heights of 25 mm - 105 mm, 85 mm - 150 mm or 135 mm - 200 mm, with multi-lip angled sealing ring to seal the retaining element against the roof outlet. With three infinitely height-adjustable rubber-metal buffers, installation area per foot: 19.6 cm², with galvanised threaded rod M8 x 90 mm, M8 x 140 mm, M8 x 190 mm with bolted sealed cover which can be removed for inspection, housing with 51 surrounding ribs, in yellow signal colour. Retaining heights are infinitely adjustable, with large inlet pot to increase discharge capacity, supply and install to professional standards.

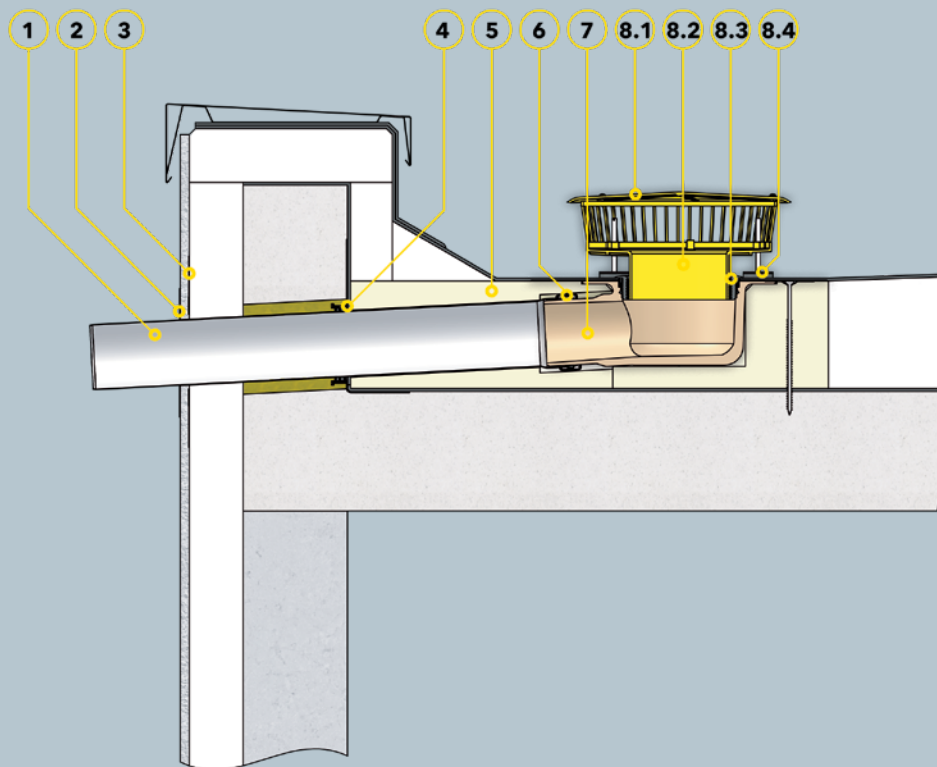
Technical drawing



Compatibility	Damming height from-to (mm)	a (mm)	b (mm)	Article number
SitaDSS Indra	25-105	115	223	14 90 75
	85-150	214	323	14 90 76
	135-200	214	323	14 90 77

SitaMore Retaining element

SitaStandard angled as emergency drainage in a
non-ventilated roof structure



Components

- 1 SitaPipe stainless steel pipe
- 2 SitaAttika cladding cover plate
- 3 SitaMore sealing sleeve for WDVS
- 4 SitaMore vapour barrier plate flex
- 5 SitaStandard angled insulating body
- 6 SitaPipe stainless steel safety clamp
- 7 SitaStandard angled

SitaMore retaining element consisting of:

- 8.1 Cover
- 8.2 Base body
- 8.3 Sealing ring
- 8.4 Height-adjustable rubber-metal buffers

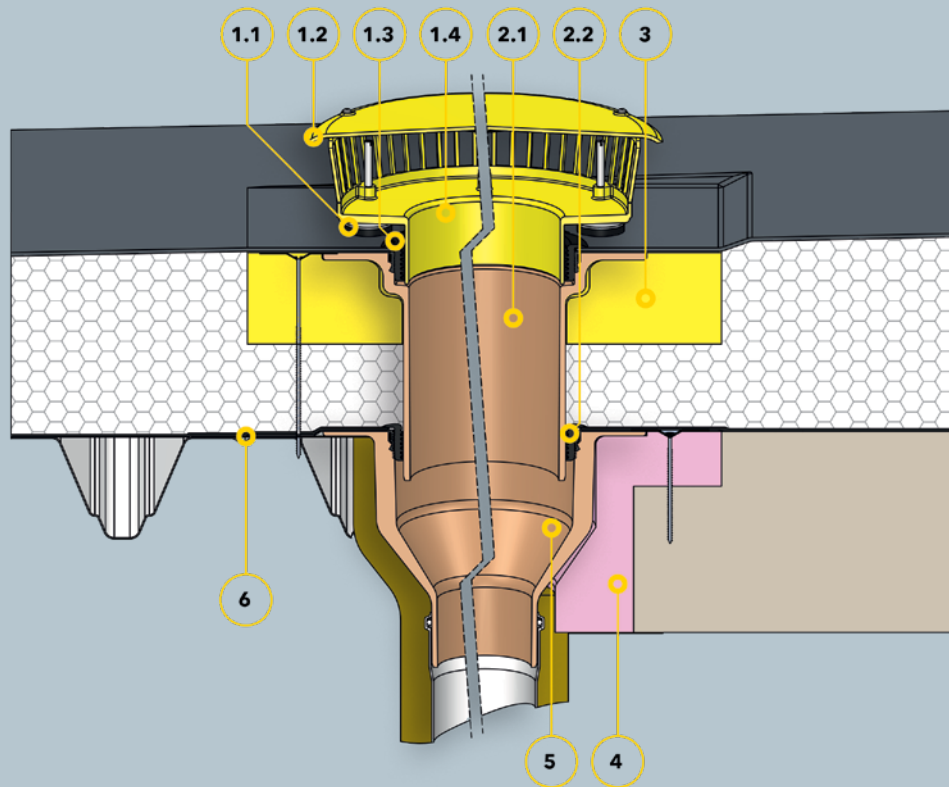
Roof structure

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

- + Waterproof membrane
- + Thermal insulation
- + apour barrier
- + Substructure

SitaMore Retaining element

SitaStandard with retaining element and downpipe
in a non-ventilated roof structure



Components

SitaMore retaining element consisting of:

- 1.1** Hight-adjustable rubber-metal buffers
- 1.2** Closed cover
- 1.3** Sealing ring
- 1.4** Base body

SitaStandard extension unit consisting of:

- 2.1** Base body
- 2.2** Sealing ring

- 3** SitaStandard insulating body for extension unit
- 4** SitaStandard insulating body for outlet
- 5** SitaStandard vertical
- 6** SitaMore reinforcement plate

Roof structure

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

- + Waterproof membrane
- + Thermal insulation
- + Vapour barrier
- + Substructure

Connection sleeves for outlets with article end numbers.

For SitaStandard, SitaTrendy, SitaDSS Profi, SitaIndra, SitaDSS Indra, SitaVasant*, SitaEasy, SitaEasy Plus, SitaCompact, SitaCompact Near*, SitaCarport, SitaMini*, SitaSani*, SitaFireguard®, SitaDSS Fireguard®, SitaVent Fireguard® and SitaVent.

Sleeves from the series production

Product-/Trade name	Art. No. end number	Type	Manufacturer
Bitumen	00*1	Elastomerbitumen	
PVC soft	10	PVC - light grey	
Fluid	90	for liquid plastic seal (Order-related production lead-time approx: 5 working days ex works)	

Sleeves from the special production

Order-related production lead-time approx: 5 working days ex works

Surcharge see current price list

Product-/Trade name	Art. No. end number	Type	Manufacturer
Alkorplan F35276	49	PVC - medium grey	Renolit AG
Alkortec®	05	EVA - dark grey	
Armourplan G	45	PVC - medium grey	IKO Polymeric
Elevate UltraPly	42	TPO/FPO - grey	Holcim Solutions and Products EMEA BV
Elevate UltraPly	54	TPO/FPO - white	
Evalastic V	22*1	EPDM - light grey	Alwitra GmbH
Evalon V	25*1	EVA - white	
Evalon V	37*1	EVA - light grey	
Evalon V	50*1	EVA - slate grey	
EverGuard	77	TPO/FPO - light grey	BMI Wolfin Bautechnik
EverGuard	0109	TPO/FPO - white	
Extrapol F	32*1	TPO/FPO - light grey	Schedetal Folien GmbH
Flagon EP	73	TPO/FPO - basalt grey	SOPREMA GmbH
Flagon EP	0111	TPO/FPO - sand grey	
Flagon SR	66	PVC - light grey	
Hertalan Easy Weld	07	EPDM - black	Carlisle Construction Materials GmbH
Köster TPO 2.0 F	48*1	TPO/FPO - light grey	Köster Bauchemie AG
Mapeplan D 15	06	PVC - light grey	Mapei GmbH (DE)
Mapeplan-T	04	TPO/FPO - smartwhite	
Polyfin 4020 v	16*1	TPO/FPO - light grey	Polyfin AG
Resitrix CL	01*2	EPDM - black	Carlisle Construction Materials GmbH
Rhepanol HG 18	34	PIB - grey	FDT Flachdachtechnologie GmbH & Co. KG
Sarnafil®-TG 66-15	24	TPO/FPO - beige	Sika GmbH
Sarnafil®-TG 66-15	76	TPO/FPO - grey	
Sikaplan® 15G	09	PVC - light grey	
Sintofoil RG FR	0104	TPO/FPO - light grey	GEORG BÖRNER GmbH & Co. KG
Tectofin RV plus	0105*1	ASA-PVC - grey	BMI Wolfin Bautechnik
Tectofin RV plus	0108*1	ASA-PVC - titanium grey	
Thermofin F15	02	TPO/FPO - silver grey	Paul Bauder GmbH & Co. KG
Thermofol U15	52	PVC - anthracite	
Thermoplan TL 15	29	TPO/FPO - pearl white	
Thermoplan TL 18	0106	TPO/FPO - granite black	
Thermoplan TL 18	0107	TPO/FPO - silver grey	
VAEPLAN F	35	EVA - grey	VAEPLAN GmbH
Wolfin IB	20	PVC-PBV - black	BMI Wolfin Bautechnik

Surcharge see current price list

NovoProof joining technology	84	EPDM - black	CQLT SaarGummi Deutschland GmbH
Thermobond R	75	EPDM - black	Sealeco GmbH

Surcharge see current price list

Elevate Quickseam	03	EPDM - black	Holcim Solutions and Products EMEA BV
SA Flashing			
Hertalan with joining technology	82	EPDM - black	Carlisle Construction Materials GmbH

*1 Fleece-backed membrane. *2 Bitumen side on top. *3 except 03 and 84. *4 except 00 and 90. *5 except 90.

Further connection sleeves upon request.

Connection sleeves for outlets with article end numbers.

For SitaTurbo and SitaTurbo Max.

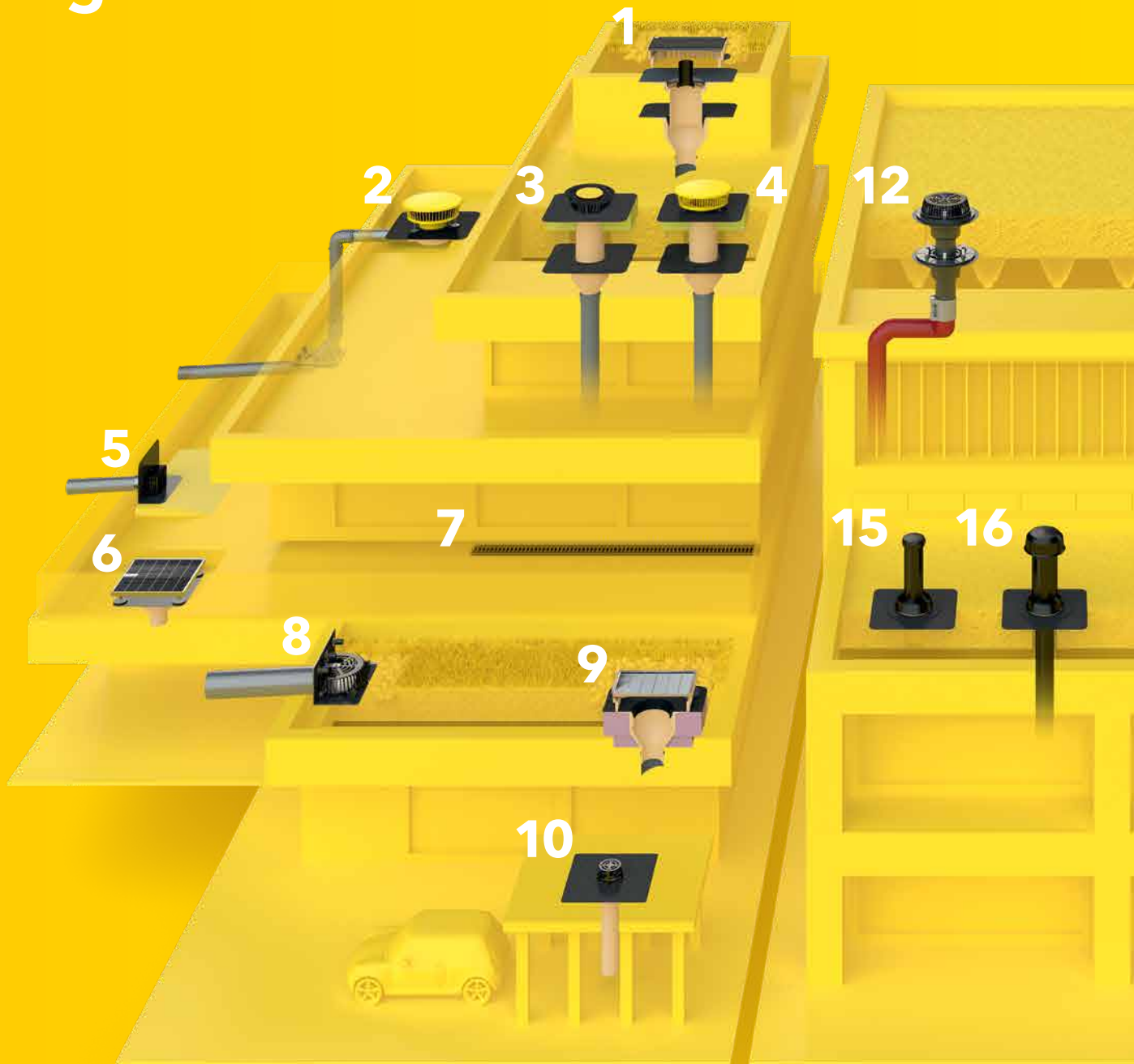
Sleeves from the special production

Order-related production lead-time approx: 5 working days ex works

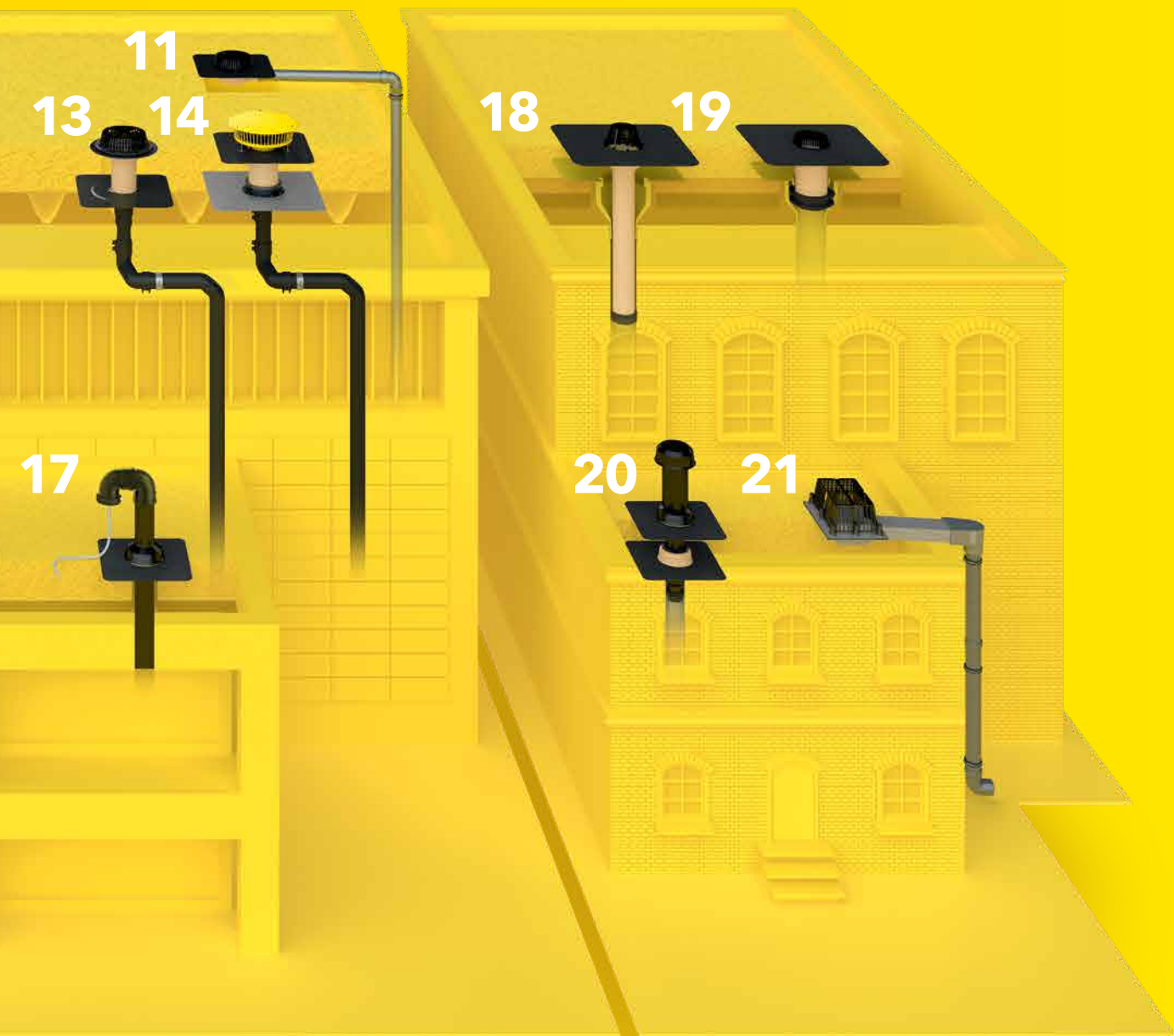
Surcharge see current price list

Product-/Trade name	Art. No. end number	Type	Manufacturer
Bitumen underlay	70	Elastomerbitumen	
Bitumen top layer	71	Polymerbitumen	
Alkorplan F35276	49	PVC - medium grey	Renolit AG
Alkortec®	05	EVA - dark grey	
Armourplan G	45	PVC - medium grey	IKO Polymeric
Elevate UltraPly	42	TPO/FPO - grey	Holcim Solutions and Products EMEA BV
Elevate UltraPly	54	TPO/FPO - white	
Evalastic	87	EPDM - light grey	Alwitra GmbH
Evalon	88	EVA - white	
Evalon	85	EVA - light grey	
Evalon	0102	EVA - slate grey	
EverGuard	77	TPO/FPO - light grey	BMI Wolfin Bautechnik
EverGuard	0109	TPO/FPO - white	
Extrapol M 1.8	0100	TPO/FPO - light grey	Schedetal Folien GmbH
Flagon EP	73	TPO/FPO - basalt grey	SOPREMA GmbH
Flagon EP	0111	TPO/FPO - sand grey	
Flagon SR	66	PVC - light grey	
Hertalan Easy Weld	07	EPDM - black	Carlisle Construction Materials GmbH
Köster TPO 2.0	0101	TPE - light grey	Köster Bauchemie AG
Mapeplan D 15	06	PVC - light grey	Mapei GmbH (DE)
Mapeplan-T	04	TPO/FPO - light grey	
O.C. Plan 3020	89	ECB - black	Polyfin AG
Polyfin 3020	86	TPO/FPO - light grey	
PVC soft	10	PVC - light grey	Paul Bauder GmbH & Co. KG
Resitrix CL	01	EPDM - black	Carlisle Construction Materials GmbH
Rhepanol HG 18	34	PIB - grey	FDT Flachdachtechnologie GmbH & Co. KG
Sarnafil®-TG 66-15	24	TPO/FPO - beige	Sika GmbH
Sarnafil®-TG 66-15	76	TPO/FPO - grey	
Sikaplan® 15G	09	PVC - light grey	
Sintofoil RG FR	0104	TPO/FPO - light grey	GEORG BÖRNER GmbH & Co. KG
Thermofin F15	02	TPO/FPO - silver grey	Paul Bauder GmbH & Co. KG
Thermofol U15	52	PVC - anthracite	
Thermoplan TL 15	29	TPO/FPO - pearl white	
Thermoplan TL 18	0106	TPO/FPO - granite black	
Thermoplan TL 18	0107	TPO/FPO - silver grey	
VAEPLAN F	35	EVA - grey	VAEPLAN GmbH
Wolfin IB	20	PVC-PBV - black	BMI Wolfin Bautechnik
Surcharge see current price list			
Elevate Quickseam SA Flashing	03	EPDM - black	Holcim Solutions and Products EMEA BV

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- | | | | |
|---|---|----|---|
| 1 | SitaRetention green roof shaft with SitaRetention Fix | 5 | SitaEasy |
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| 3 | SitaStandard with SitaStandard extension unit and insulating body in use for the extension unit | 7 | SitaDrain® box drain with footbridge |
| 4 | SitaStandard with SitaStandard extension unit and SitaMore retaining element | 8 | SitaRondo |
| | | 9 | SitaGreen roof shaft with SitaTrendy and SitaTrendy insulating body |
| | | 10 | SitaCarport |
| | | 12 | |
| | | 15 | |
| | | 16 | |



- 11** SitaDSS Indra main drainage set
- 12** SitaDSS Multi with SitaDSS Multi extension unit
- 13** SitaDSS Profi with SitaDSS Profi extension unit
- 14** SitaDSS Fireguard® with retaining element
- 15** SitaVent Revision

- 16** SitaVent system vent with SitaVent condensation deflector
- 17** SitaVent pipe bent with pipe fairlead
- 18** SitaSani® drainage into the existing pipe system
- 19** SitaSani® drainage into the existing roof outlet

- 20** SitaVent refurbishment vent with SitaVent base plate
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Ventilation and
pipe fairlead

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