

Sitaleicht.
Siphonic drainage.



SD

leicht entwässern.

SD

for Siphonic Drainage:

Drainage at full capacity!

Do you have particularly large roof areas on industrial, free-standing buildings? And you have a need for great space inside them? In that case siphonic drainage is the ideal system for you. Fewer ground pipelines are required for it – which means that almost no earthworks are needed. The drainage takes place internally in full, minimising the number of fall pipes – this saving space overall.

1

Why siphonic drainage?

06 The principle of siphonic drainage.

2

Products

08 **Decision matrix** Regulations

10 **SitaDSS Profi**

12 Product details

24 Installation examples



31 **SitaDSS Fireguard®**

33 Product details

39 Installation examples



41 **SitaDSS Ravana**

43 Product details

47 Installation examples



51 **SitaDSS Ravana Plus**

53 Product details

55 Installation examples



56 **SitaDSS Multi**

58 Product details

71 Installation examples



72 Connecting sleeves

74 Sita product range

3

Sitaleicht

76 Sita calculation service

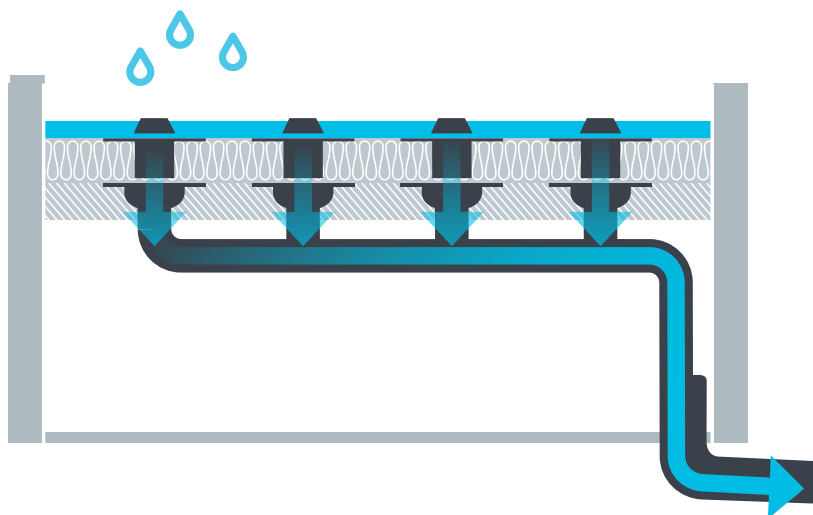
77 Sita contacts

78 EPD – Enviromental Product Declaration

Flexible with more room for economics.

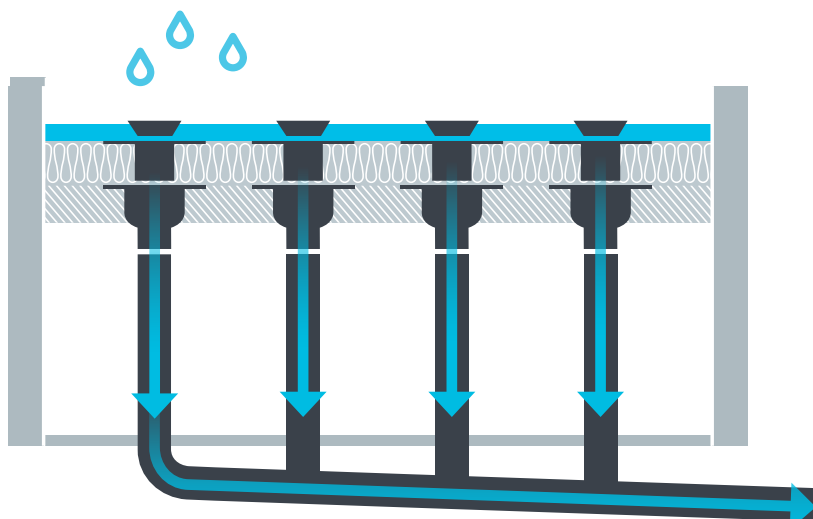
Sita frees space. Siphonic drainage is internal and horizontal – with a 0° gradient. This is an important architectural benefit – because the lack of gradient means it needs less space. There is almost no need for ground pipelines and therefore earthworks. Sita will supply your production plants and warehouses with a complete rainwater drainage system tailored to their requirements.

Less is more: Siphonic drainage from Sita



- + Pipeline system; installed completely filled/with no gradient
- + Small pipe sizes
- + Low number of fall pipes
- + Minimal work required for ground pipes and therefore very small amount of earthworks

The traditional system: conventional drainage from Sita



- + Pipeline system; installed partly filled / with a gradient
- + High discharge volume from rainwater outlets due to bowl-shaped outlet bodies
- + Layout of an emergency drainage system
- + Extensive network of ground pipes
- + Designed low point drainage



Everything worked out perfectly by Sita. Smartly solved - a great service!

Lars Heiderson
ARCHITECT

Highly complex challenge? Easily calculated with Sita.

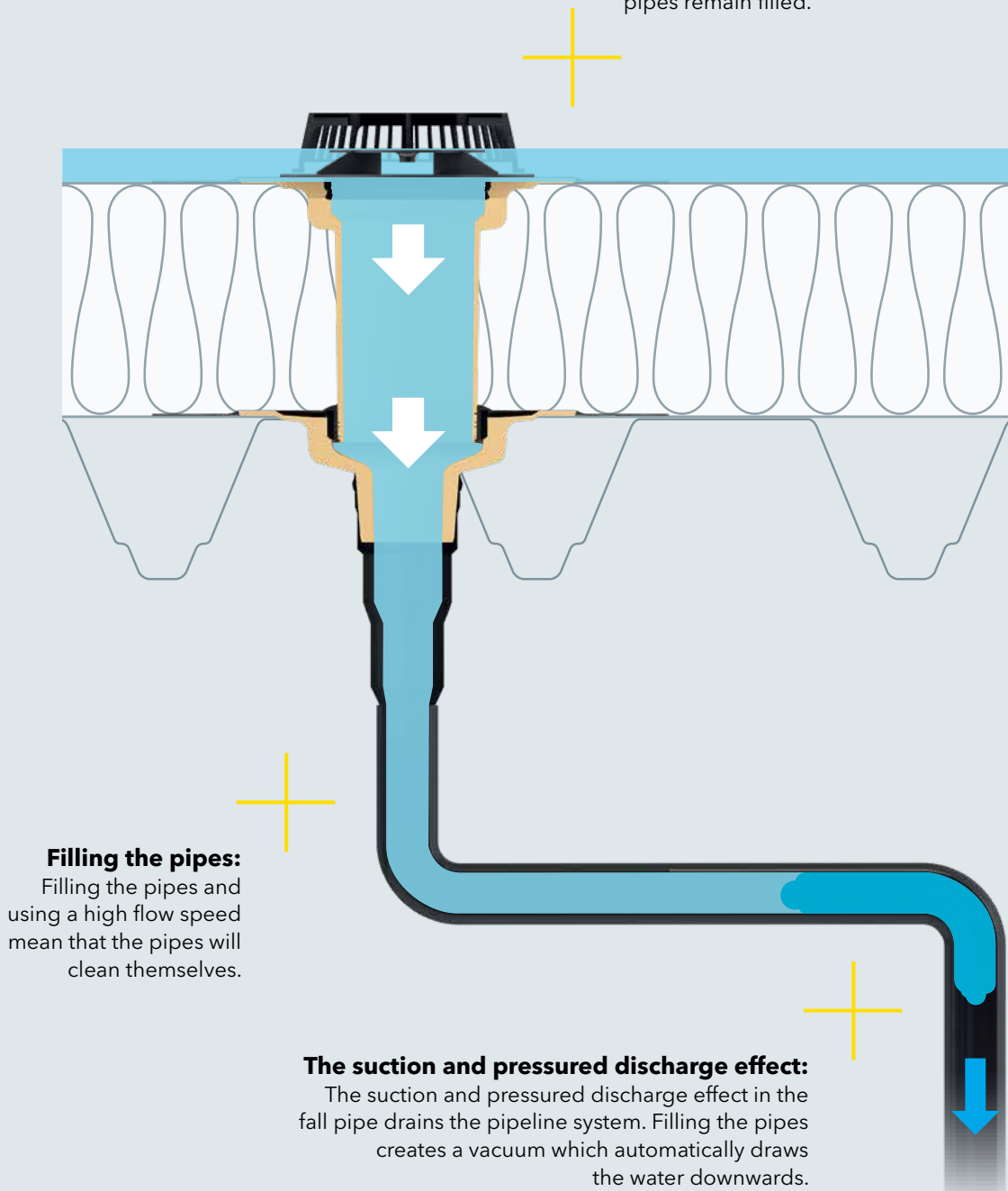
Sita solves problems. Sita's calculation service is an elementary aid and a great starting point for your project. On the basis of your specifications, Sita calculates precisely how the siphonic drainage system - covering the rainwater outlet, pipe and fastening system - has to be designed for the particular location and the individual building type. Even if the requirements are very complex.

See page 8 for DIN standards and regulations.

The principle of siphonic drainage.

SitaAirstop:

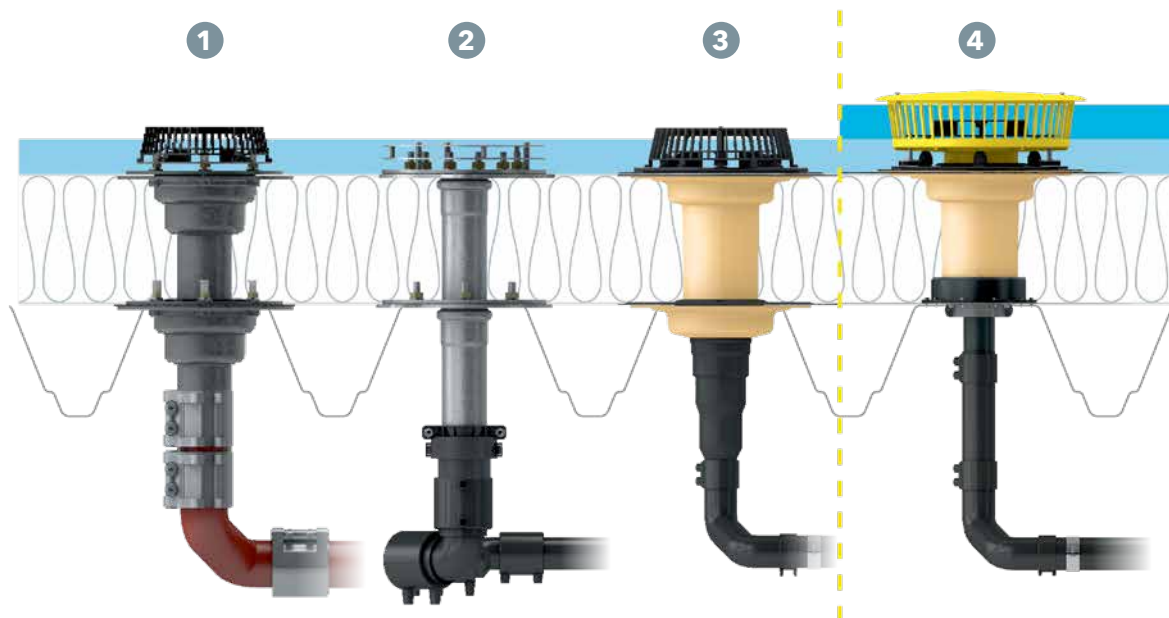
This prevents the ingress of air and ensures that the pipes remain filled.



The Sita siphonic drainage system (A-C). The Sita siphonic drainage system already collects the rainwater under the roof structure and feeds it quickly into the ground pipes through a small number of fall pipes. Sita supplies all the components to install the drainage system efficiently and expertly. The pipeline system's shaped parts are perfectly tailored to each other and lead the water off the roof.

Sita can provide a wide range of solutions - one or two-part

1 SitaDSS Multi, 2 SitaDSS Ravana, 3 SitaDSS Profi screw-on flange,
4 SitaFiresafe with SitaDSS Profi and SitaDSS Profi retaining element



An easy decision.

Type of drainage	Integrated selected connection sleeve	Loose-fixed flange construction	Direct connection to SML pipes
Siphonic drainage			
Siphonic drainage			
Siphonic drainage			
Siphonic drainage			
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

SITA DECISION MATRIX					Matrix
Direct connection to PE pipes	Main drainage	Emergency drainage	Material		
			Polyurethane		
			Polyethylene, Polyurethane		
			Stainless steel		
			Stainless steel		
			Cast iron		
DIN 18531-1 to 5 Waterproofing membranes DIN EN 1253-2 Roof outlets and floor drains outlets 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 membrane FLL Guideline For planning, building and maintaining roof greenings Industrial Construction Guideline Guideline for fire protection in industrial buildings					

SitaDSS Profi

Low weight. Timeless look.



SitaDSS Profi

- + For direct connection to PE pipes and the SitaPipe stainless steel pipe system
- + High discharge rate
- + Simple installation due to few single parts
- + Can be used universally
- + With connection sleeve of choice or screw-on flange construction



SitaDSS Profi
With Airstop



SitaDSS Profi
Without Airstop



SitaDSS Profi
Screw-on flange
With Airstop



SitaDSS Profi
Screw-on flange
Without Airstop



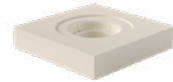
SitaDSS Profi
Extension unit



SitaDSS Profi
Screw-on flange
Extension unit



SitaDSS Profi
Retaining element



SitaDSS Profi
Insulating body for
extension element



SitaMore
Fire protection sleeve



SitaMore
Pipe sleeve heating



SitaMore
Reinforcement plate

SitaDSS Profi

Product features at a glance:

Product features

Applications	For main and emergency drainage to DIN EN 12056-3 and DIN 1986-100 for large used and unused flat roofs
Material	Polyurethane
Design	Vertical
Temperature resistance, min.	-40 °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 + 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



Bauart geprüft
und überwacht

www.tuv.com
ID: 1111219628

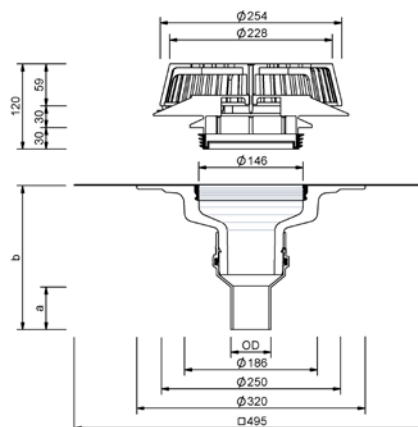
SitaDSS Profi With Airstop



Tender text

SitaDSS Profi siphonic drainage rainwater outlet made of polyurethane, thermally insulated, to DIN EN 1253-2, in sizes DN 56 or DN 70, with Airstop including dome grate, for direct connection to PE pipes (butt welding or with electrofusion socket) or to the SitaPipe stainless steel pipe system, for siphonic drainage, with a large connection sleeve of choice (495 mm x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve and to hold the Airstop including dome grate, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	a (mm)	b (mm)	Article number
56	56	250	60	202	14 02 xx
70	75			194	14 04 xx
90	90			189	14 06 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
56	0,7	2,0	3,2	4,1	4,9	6,6	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2
70	0,5	1,3	2,8	4,2	5,5	7,6	9,4	12,9	16,3	16,7	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0
90	0,8	2,0	3,1	4,2	5,2	7,0	8,7	13,4	18,0	20,2	22,3	23,0	23,7	23,9	24,0	24,0	24,0	24,0	24,0	24,0

SitaDSS Profi

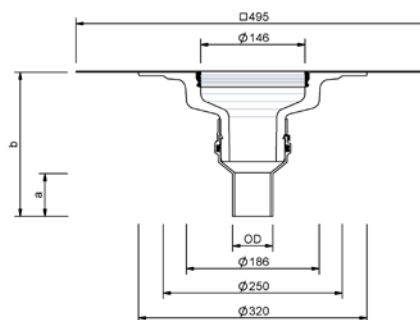
Without Airstop



Tender text

SitaDSS Profi siphonic drainage rainwater outlet without Airstop, made of polyurethane, thermally insulated, to DIN EN 1253-2, in sizes DN 56 of DN 70, for direct connection to PE pipes (butt welding or with electrofusion socket) or to the SitaPipe stainless steel pipe system, for siphonic drainage, with a large 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 in combination with the SitaDSS Profi retaining element, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	a (mm)	b (mm)	Article number**
56	56	250	60	202	14 32 xx
70	75			194	14 34 xx
90	90			189	14 36 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

** Without Airstop, to be utilised in combination with the SitaDSS Profi retaining element for emergency drainage only.

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
56	0,7	2,0	3,2	4,1	4,9	6,6	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2
70	0,5	1,3	2,8	4,2	5,5	7,6	9,4	12,9	16,3	16,7	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0
90	0,8	2,0	3,1	4,2	5,2	7,0	8,7	13,4	18,0	20,2	22,3	23,0	23,7	23,9	24,0	24,0	24,0	24,0	24,0	24,0

SitaDSS Profi

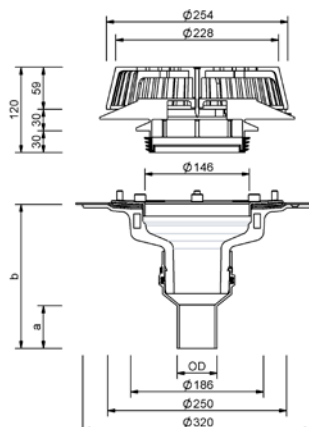
Screw-on flange with Airstop



Tender text

SitaDSS Profi screw-on flange siphonic drainage rainwater outlet, made of polyurethane, thermally insulated, to DIN EN 1253-2, in sizes DN 56 of DN 70, for direct connection to the PE pipes (butt welding or with electrofusion socket), or to the SitaPipe stainless steel pipe system, for siphonic drainage, with pre-drilled holes to secure the component in the substructure, with foamed-in insert ring for the supplied screws, loose aluminium flange and two sealing sleeves for clamping bitumen, plastic or EPDM roofing membranes. With Airstop including dome grate, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	a (mm)	b (mm)	Article number
56	56	250	60	202	14 02 99
70	75			194	14 04 99
90	90			189	14 06 99

* OD = Outer diameter (mm)

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
56	0,7	2,0	3,2	4,1	4,9	6,6	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2
70	0,5	1,3	2,8	4,2	5,5	7,6	9,4	12,9	16,3	16,7	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0
90	0,8	2,0	3,1	4,2	5,2	7,0	8,7	13,4	18,0	20,2	22,3	23,0	23,7	23,9	24,0	24,0	24,0	24,0	24,0	24,0

SitaDSS Profi

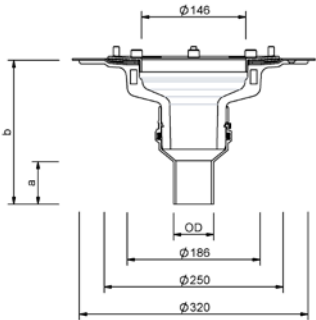
Screw-on flange without Airstop



Tender text

SitaDSS Profi siphonic drainage rainwater outlet without Airstop, made of polyurethane, thermally insulated, to DIN EN 1253-2, in sizes DN 56 of DN 70, for direct connection to the PE pipes (butt welding or with electrofusion socket), or to the SitaPipe stainless steel pipe system, for siphonic drainage, with pre-drilled holes to secure the component in the substructure, with foamed-in insert ring for the supplied screws, loose aluminium flange and two sealing sleeves for clamping bitumen, plastic or EPDM roofing membranes. Only in combination with the SitaDSS Profi retaining element, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	a (mm)	b (mm)	Article number**
56	56	250	60	202	14 32 99
70	75			194	14 34 99
90	90			189	14 36 99

* OD = Outer diameter (mm)
 ** Without Airstop, to be utilised in combination with the SitaDSS Profi retaining element for emergency drainage only.

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
56	0,7	2,0	3,2	4,1	4,9	6,6	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2
70	0,5	1,3	2,8	4,2	5,5	7,6	9,4	12,9	16,3	16,7	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0	17,0
90	0,8	2,0	3,1	4,2	5,2	7,0	8,7	13,4	18,0	20,2	22,3	23,0	23,7	23,9	24,0	24,0	24,0	24,0	24,0	24,0

SitaDSS Profi

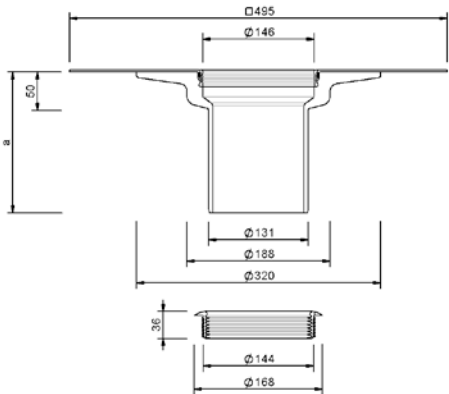
Extension unit



Tender text

SitaDSS Profi extension unit, made of polyurethane, compliant with DIN EN 1253-2, thermally insulated, for insulating material thicknesses of 60–320 mm. With large foamed-in connection sleeve of choice (495 mm x 495 mm) to suit the roofing membrane and with fixing ring for additional securing of the connection sleeve. Complete including multi-lip angled sealing ring for backflow protection, supply and install to professional standards.

Technical drawing



a (mm)	Bridging of thermal insulation min. (mm)	Bridging of thermal insulation max. (mm)	Article number
185	60	150	14 25 xx
255		220	14 26 xx
355		320	14 27 xx

xx = Article end numbers for connection sleeve of choice

SitaDSS Profi

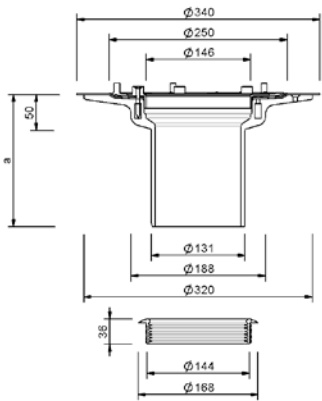
Screw-on flange extension unit



Tender text

SitaDSS Profi screw-on flange extension unit, made of polyurethane, to DIN EN 1253-2, for insulating material thicknesses of 60 - 320 mm, with pre-drilled holes to secure the component in the substructure. With foamed-in insert ring for the supplied screws, loose aluminium flange and two sealing sleeves for clamping bitumen, plastic or EPDM roofing membranes. Complete including multi-lip angled sealing ring for backflow protection, supply and install to professional standards.

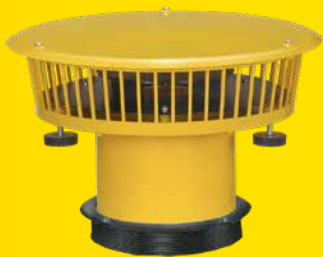
Technical drawing



a (mm)	Bridging of thermal insulation min. (mm)	Bridging of thermal insulation max. (mm)	Article number
185	60	150	14 25 99
255		220	14 26 99
355		320	14 27 99

SitaDSS Profi

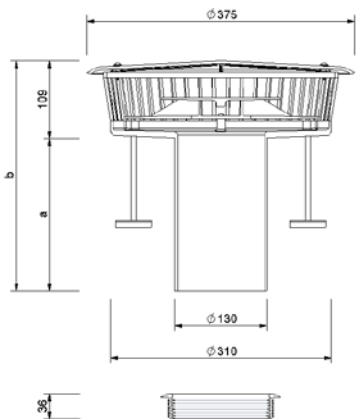
Retaining element



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, SitaSani® 160 DSS	25-105	114	223	14 90 01
	85-150	214	323	14 90 11
	135-200			14 90 12

SitaDSS Profi

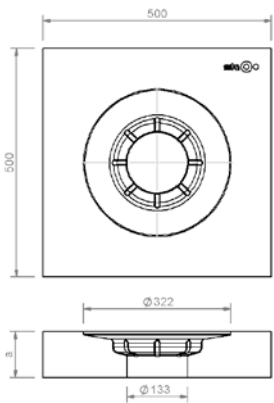
Insulating body extension unit



Tender text

SitaDSS Profi insulating body for extension unit, made of polyurethane, for easy bonding to the vapour barrier, without mechanical fastening of the extension unit by bonding to the insulation body, size 500 x 500 x 100 mm or 500 x 500 x 60 mm, thermal conductivity $\lambda=0.025$ W/mK, compressive strength 200 kPa, density approx. 50 kg/m³, as an installation aid and thermal insulation for the prevention of thermal bridges, supply and install to professional standards.

Technical drawing



Compatibility	a (mm)	Article number
SitaDSS Profi extension unit	100	14 50 05
	60	14 50 06

SitaMore

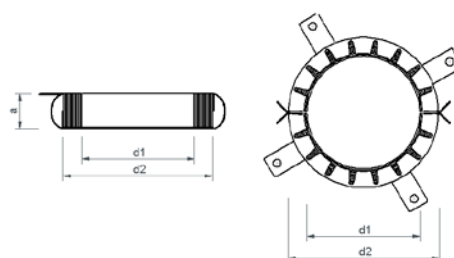
Protection sleeve



Tender text

SitaMore fire protection sleeve, pipe insulation to ETAG 026 Part 2:2008-01-01 in fire resistance class EI 120-U/U or EI 240-U/C to EN 13501-2 for fire protection on inflammable pipes to ETA-11/0208, dated 22 June 2011. To seal openings in internal walls at least 100 mm thick and ceilings at least 150 mm thick, classified to EN 13501-2. To prevent the spread of fire and smoke, supply and install to professional standards.

Technical drawing



DN	OD	a (mm)	d1 (mm)	d2 (mm)	Article number
100	110	26,6	114	155	80 13 00 11
125	125	40	129	172	80 13 00 12
160	160		165	220	80 13 00 16
200	200		204	284	80 13 00 20
250	250	50	264	353	80 13 00 25
315	315		328	417	80 13 00 31
40	40	26	46	55	80 13 00 40
50	50		54	68	80 13 00 50
63	63		67	94	80 13 56 63
70	75		79	106	80 13 00 75
90	90	26,6	94	132	80 13 00 90

SitaMore

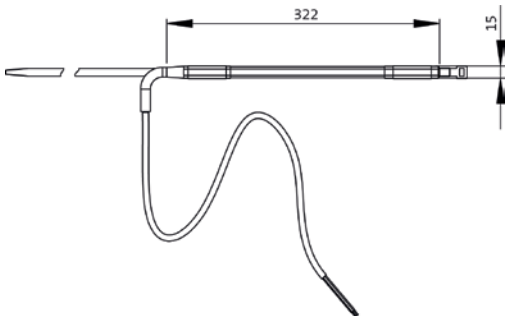
Pipe sleeve heating



Tender text

SitaMore pipe sleeve heating, for heating roof outlets and pipes, self-regulating PTC heating element with a heat rating of approx. 10 W at -20 °C and 230 V, with two cable ties for easy securing to pipes or roof outlets. No transformer required, supply and install to professional standards.

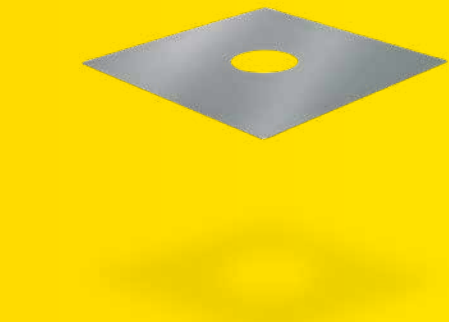
Technical drawing



Article number
10 90 35

SitaMore

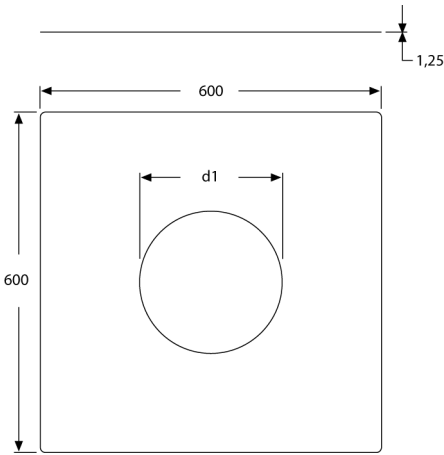
Reinforcement plate



Tender text

SitaMore reinforcement plate, made of galvanised sheet steel, to reinforce small penetrations in the trapezoidal steel sheet, for SitaDSS Profi, SitaStandard, SitaTrendy, SitaTrendy screw-on flange, SitaVent system vent, SitaCompact, SitaMulti and SitaDSS, supply and install to professional standards.

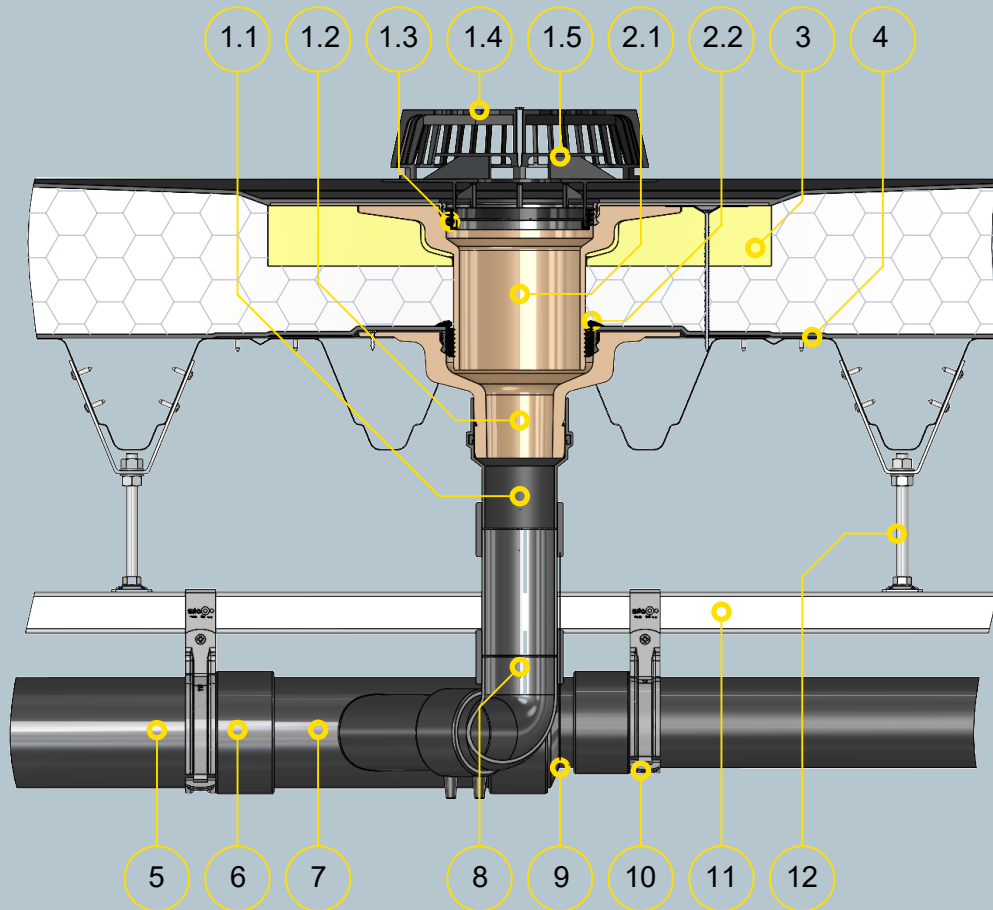
Technical drawing



Compatibility	d1 (mm)	Article number
SitaStandard, SitaTrendy, SitaTrendy screw-on flange, SitaMulti, SitaDSS Profi, SitaDSS Multi and SitaVent system vent DN 150	250	10 90 00

SitaDSS Profi / SitaDSS Profi screw- on flange

SitaDSS Profi in a non-ventilated roof structure



SitaDSS Profi

Components

- 1** SitaMore reinforcement plate

SitaDSS Profi consisting of:

- 2.1** PE plug-in coupler snap-on ring
- 2.2** Base body
- 2.3** Fastening ring for Airstop
- 2.4** Dome grate
- 2.5** Airstop

SitaDSS Profi extension unit consisting of:

- 3.1** Base body
- 3.2** Sealing ring

- 4** SitaDSS Profi insulating body for extension unit
- 5** SitaDSS Rail mounting rail
- 6** SitaDSS Rail suspension unit
- 7** SitaDSS Clamp
- 8** SitaPipe PE electrofusion socket
- 9** SitaPipe PE branch
- 10** SitaPipe PE bend
- 11** SitaPipe PE reduction piece
- 12** SitaPipe PE pipe

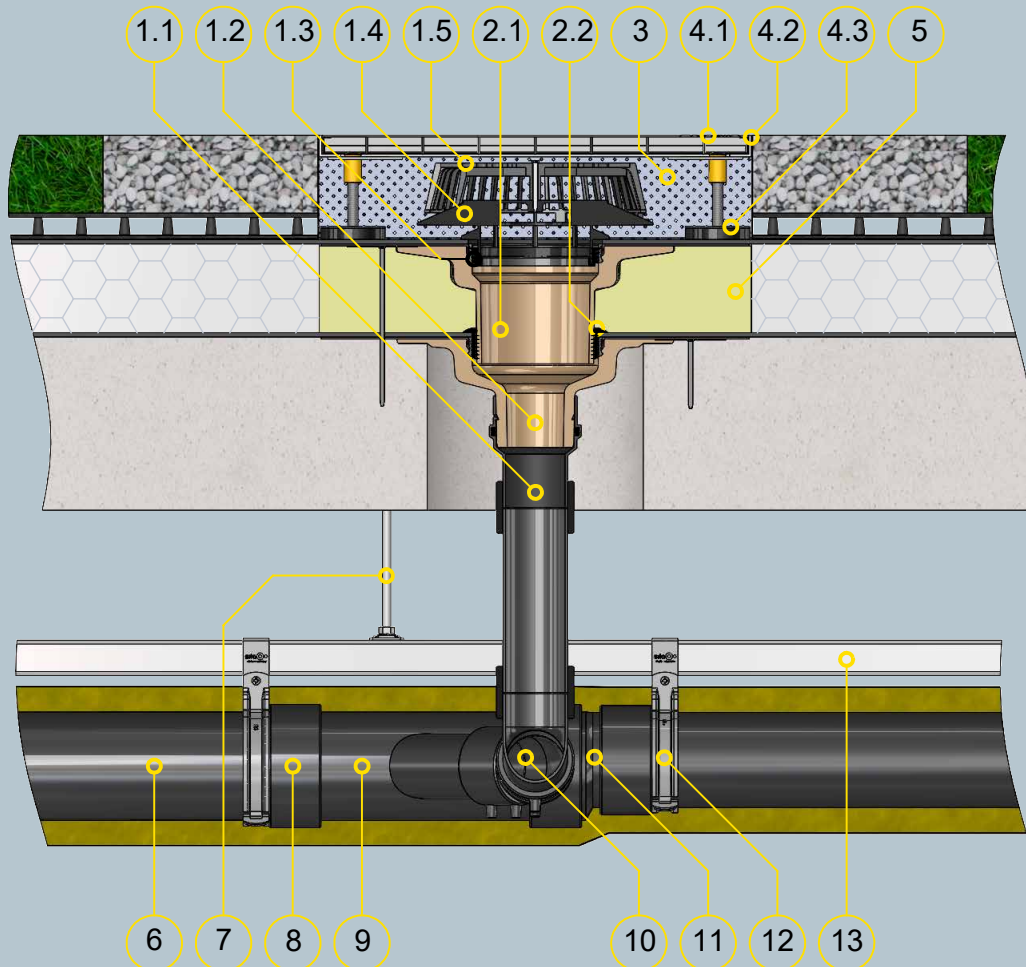
Roof structure

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

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

SitaDSS Profi / SitaDSS Profi screw- on flange

SitaDSS Profi in a non-ventilated roof structure with greenery for main drainage



Components

SitaDSS Profi consisting of:

- 1.1 PE plug-in coupler with snap-on ring
- 1.2 Base body
- 1.3 Fastening ring for Airstop
- 1.4 Airstop
- 1.5 Dome grate

2 SitaDrain® gravel strip

SitaDSS Profi extension unit consisting of:

- 3.1 Base body
- 3.2 Sealing ring

- 4 SitaDSS Profi insulating body for extension unit
- 5 SitaPipe PE pipe
- 6 SitaDSS Rail suspension unit
- 7 SitaPipe PE electrofusion socket
- 8 SitaPipe PE branch
- 9 SitaPipe PE reduction piece
- 10 SitaDSS Clamp
- 11 SitaPipe PE pipe
- 12 SitaDSS Rail mounting rail

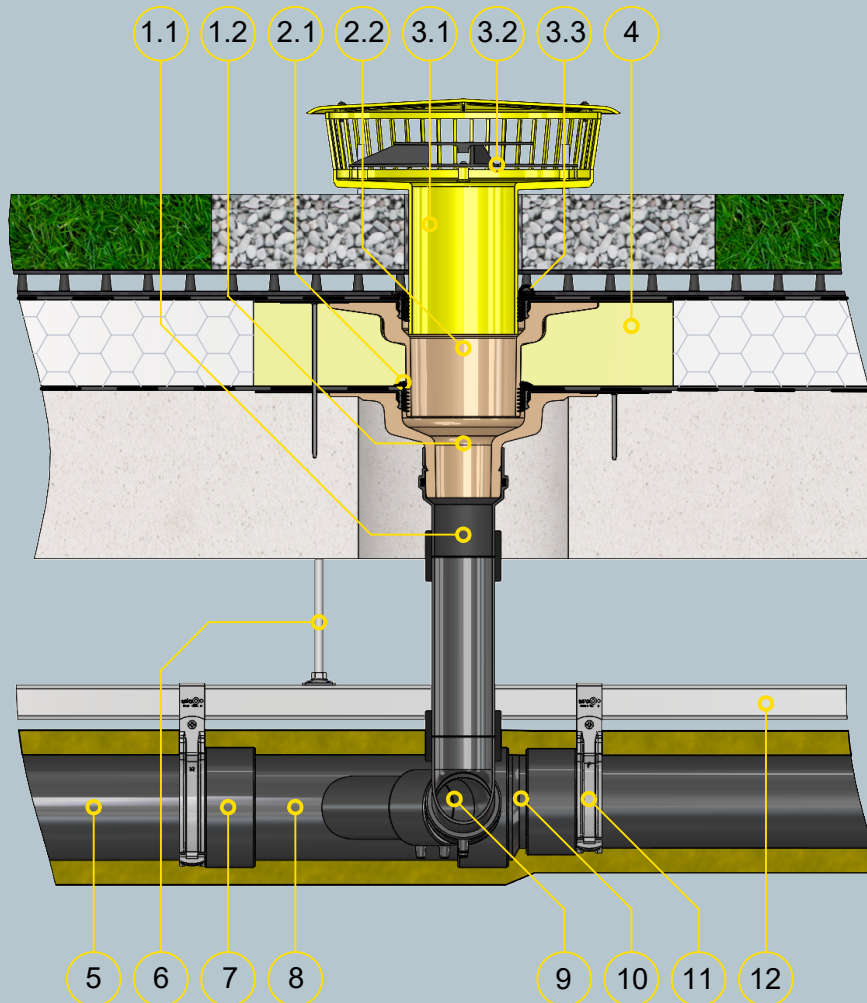
Roof structure

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

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

SitaDSS Profi / SitaDSS Profi screw- on flange

SitaDSS Profi in a non-ventilated roof structure with greenery for emergency drainage



SitaDSS Profi

Components

SitaDSS Profi consisting of:

- 1.1 PE plug-in coupler with snap ring
- 1.2 Base body

SitaDSS Profi retaining element consisting of:

- 2.1 Sealing ring
- 2.2 Base body
- 2.3 Airstop

- 3 SitaDrain® gravel strip

SitaDSS Profi extension unit consisting of:

- 4.1 Base body

4.2 Sealing ring

- 5 SitaDSS Profi insulating body for extension unit
- 6 SitaPipe PE pipe
- 7 SitaDSS Rail suspension unit
- 8 SitaPipe PE electrofusion socket
- 9 SitaPipe PE branch
- 10 SitaPipe PE reduction piece
- 11 SitaDSS Clamp
- 12 SitaPipe PE pipe
- 13 SitaDSS Rail mounting rail

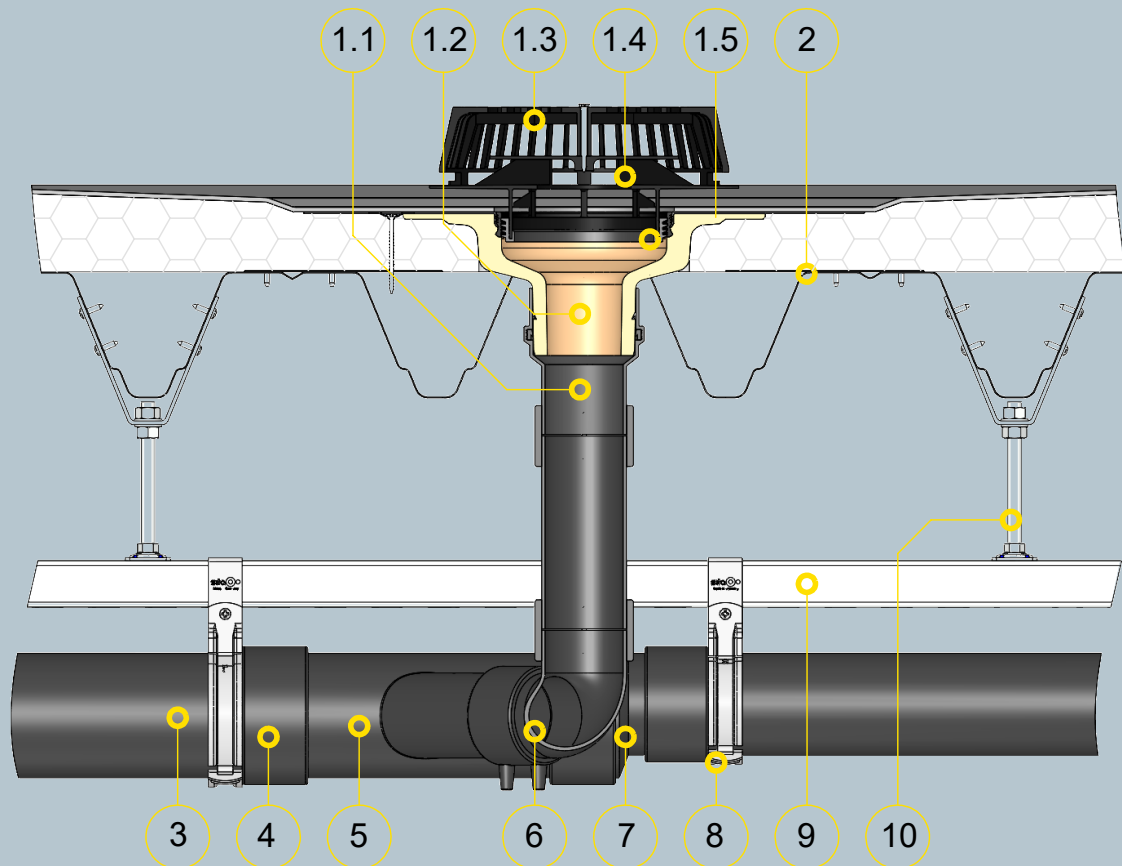
Roof structure

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

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

SitaDSS Profi / SitaDSS Profi screw- on flange

SitaDSS Profi main drainage in non-ventilated roof structures
without vapour barrier and extension unit



SitaDSS Profi

Components

SitaDSS Profi consisting of:

- 1.1 PE plug-in coupler with sealing ring
- 1.2 Base body
- 1.3 Dome grate
- 1.4 Airstop
- 1.5 Fastening ring for Airstop

- 2 SitaMore reinforcement plate
- 3 SitaPipe PE pipe
- 4 SitaPipe PE electrofusion socket
- 5 SitaPipe PE branch
- 6 SitaPipe PE bend
- 7 SitaPipe PE reduction piece

- 8 SitaDSS Clamp
- 9 SitaDSS Rail mounting rail
- 10 SitaDSS Rail suspension unit

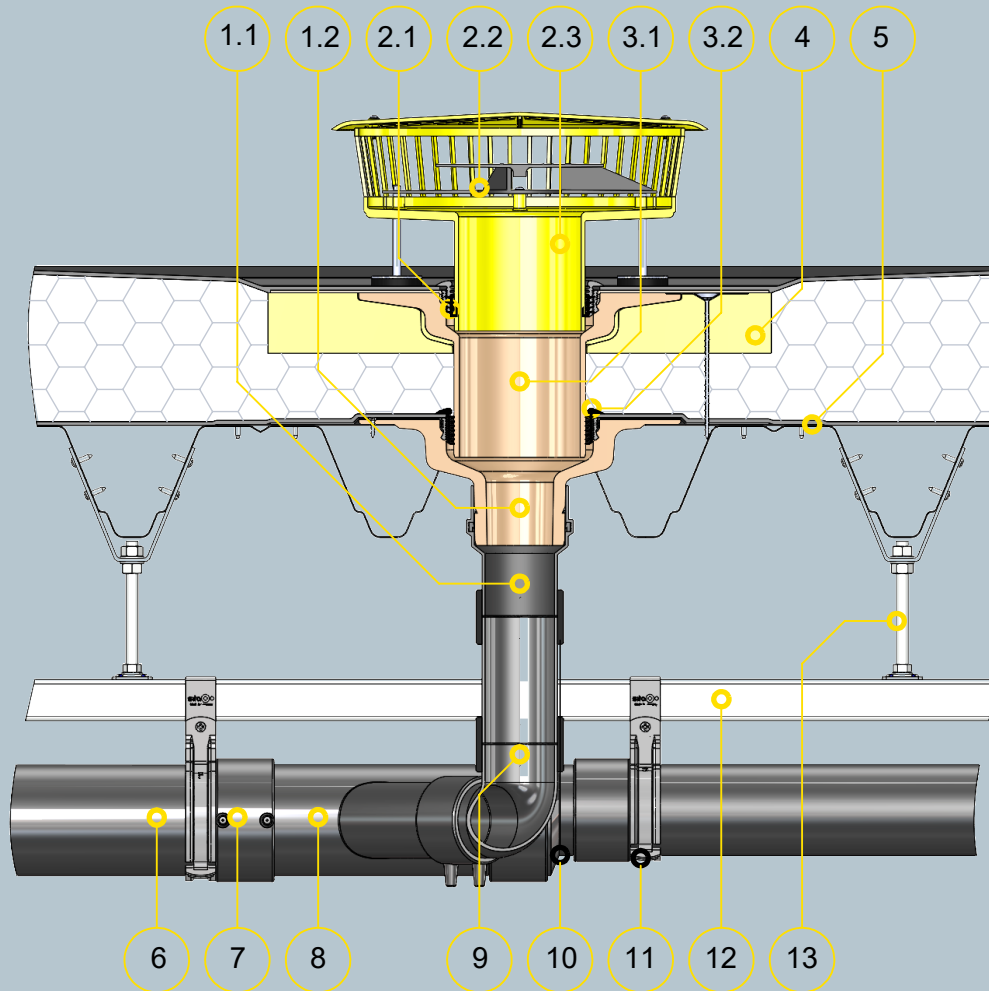
Roof structure

Non-ventilated roof structure with:

- + Waterproofing
- + Thermal insulation
- + Substructure

SitaDSS Profi / SitaDSS Profi screw- on flange

SitaDSS Profi with SitaDSS Profi retaining element for emergency
drainage in a non-ventilated roof structure



SitaDSS Profi

Components

- 1** SitaMore reinforcement plate

SitaDSS Profi consisting of:

- 2.1** PE plug-in coupler with snap-on ring
2.2 Base body

SitaDSS Profi extension unit consisting of:

- 3.1** Base body
3.2 Sealing ring

SitaDSS Profi retaining element consisting of:

- 4.1** Airstop
4.2 Sealing ring

- 4.3** Base body

- 5** SitaDSS Profi insulating body for extension unit
6 SitaDSS Rail mounting rail
7 SitaDSS Rail suspension unit
8 SitaDSS Clamp
9 SitaDSS PE electrofusion socket
10 SitaDSS PE branch
11 SitaDSS PE bend
12 SitaDSS PE reduction piece
13 SitaDSS PE pipe

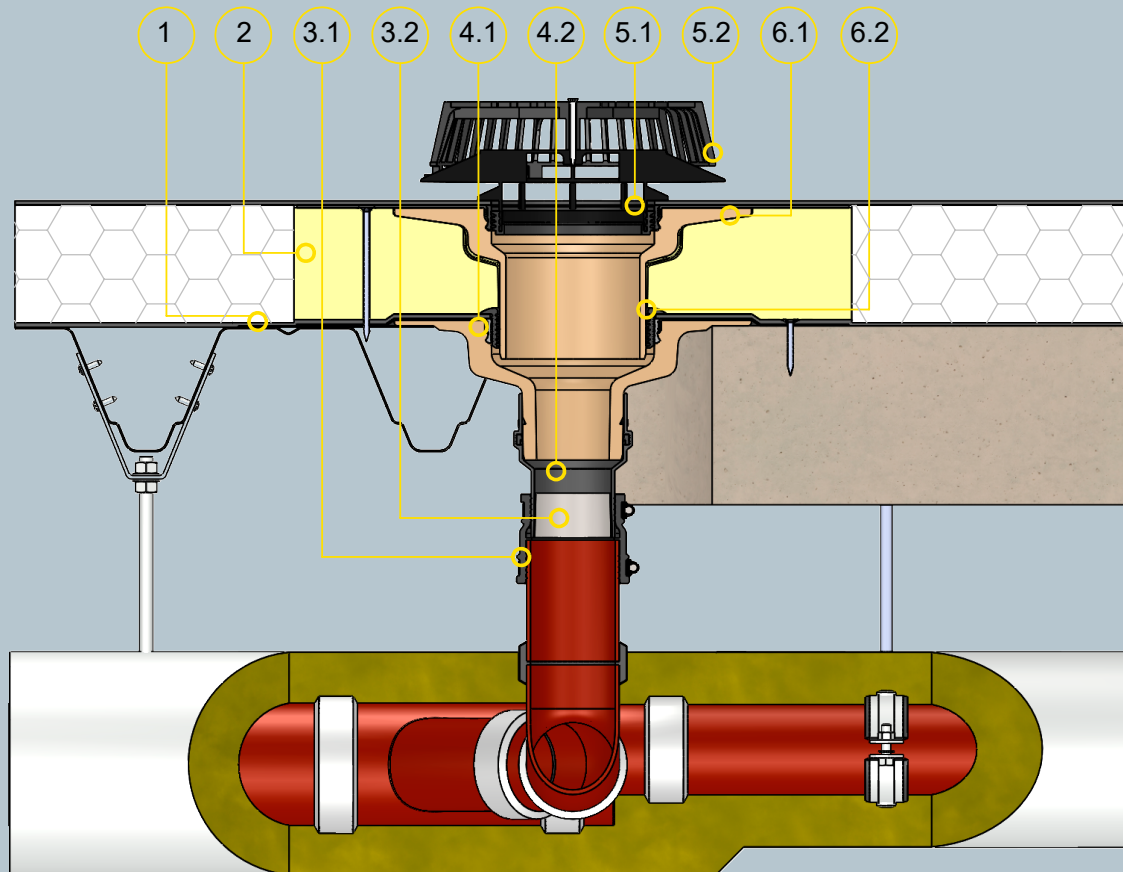
Roof structure

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

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

SitaDSS Profi / SitaDSS Profi screw- on flange

SitaDSS Profi with SitaMore transition connector set in a non-ventilated roof structure



SitaDSS Profi

Components

- 1 SitaMore reinforcement plate
- 2 SitaDSS Profi insulating body for extension unit

SitaMore transition connector set consisting of:

- 3.1 EPDM/V2A connector
- 3.2 Support ring made of rust-proof stainless steel

(Sufficient fastening of the pipe system to the building structure must be ensured on site.)

SitaDSS Profi consisting of:

- 4.1 PUR base body for outlet

- 4.2 Plug-in coupler with seal

SitaDSS Airstop consisting of:

- 5.1 Airstop with fastening ring
- 5.2 Dome grate with installation screw

SitaDSS Profi extension unit consisting of:

- 6.1 PUR base body extension unit
- 6.2 Sealing ring for extension unit

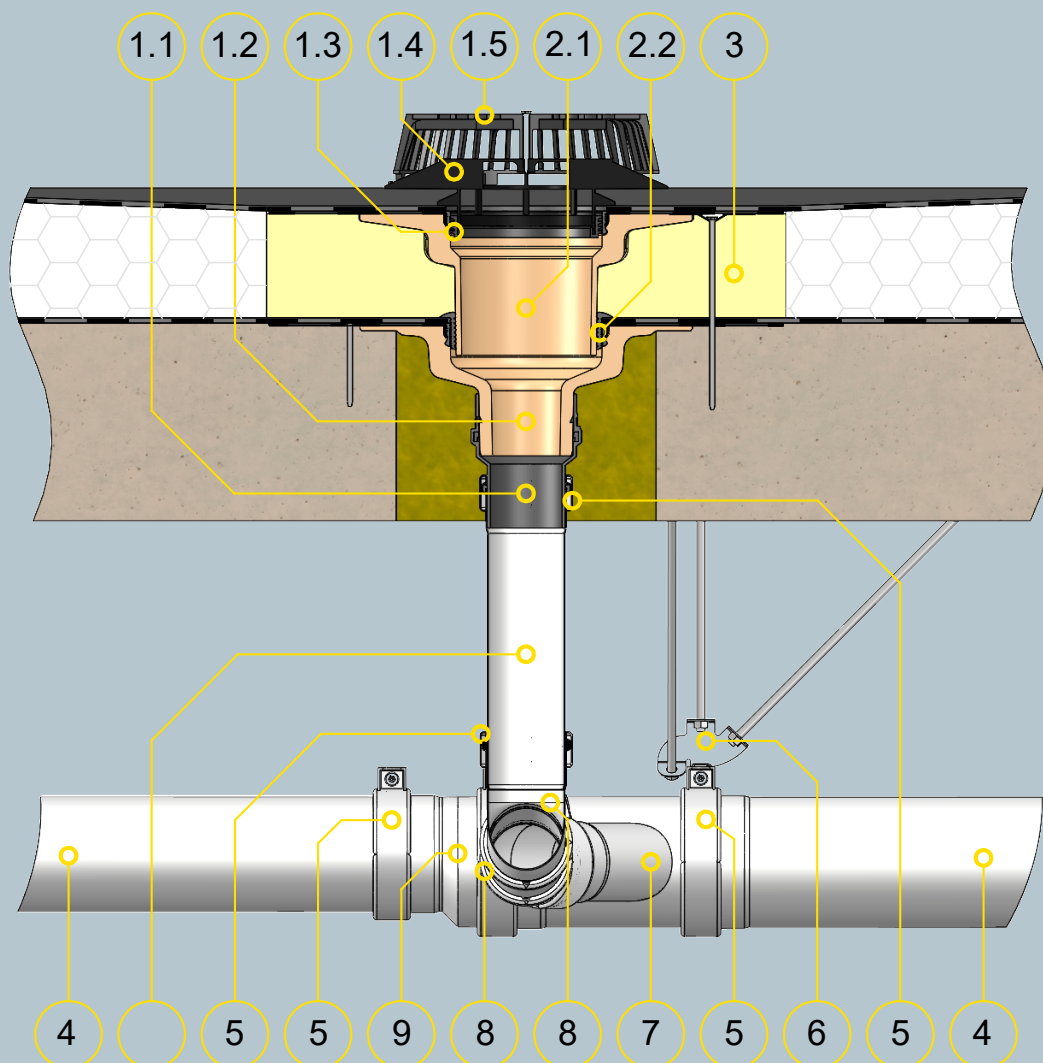
Roof structure

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

- + Waterproofing
- + Thermal insulation
- + Vapour barrier
- + Substructure

SitaDSS Profi / SitaDSS Profi screw- on flange

SitaDSS Profi and SitaPipe stainless steel pipe system for main drainage in non-ventilated roof structures



SitaDSS Profi

Components

SitaDSS Profi with Airstop consisting of:

- 1.1 PE plug-in coupler
- 1.2 Base body
- 1.3 Fastening ring for Airstop
- 1.4 Airstop
- 1.5 Dome grate

SitaDSS Profi extension unit consisting of:

- 2.1 Base body
- 2.2 Sealing ring
- 3 SitaDSS Profi insulating body for extension unit

- 4 SitaPipe stainless steel pipe
- 5 SitaPipe stainless steel safety clamp
- 6 SitaPipe stainless steel mounting bracket
- 7 SitaPipe stainless steel branch 45°
- 8 SitaPipe stainless steel bend
- 9 SitaPipe stainless steel transition eccentric

Roof structure

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

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

SitaDSS Fireguard®

High-pressure drainage. Fire protection in the set.



SitaDSS
Fireguard®

- + For preventive fire protection to DIN 18234
- + A complete set allowing easy and safe installation
- + Small roof penetrations thanks to optimised shape of the PE base body
- + For direct connection to the PE pipes
- + With integrated selected connection sleeve or screw-on flange construction
- + For main and emergency drainage



SitaDSS Fireguard®
with Airstop



SitaDSS Fireguard®
with retaining element



SitaDSS Fireguard®
Screw-on flange
with Airstop



SitaDSS Fireguard®
Screw-on flange with
retaining element



SitaFireguard®
Insulating body
Mineral wool

SitaDSS Fireguard®

Product features at a glance:

Product features

Applications	For main and emergency drainage to DIN 12056-3 and DIN 1986-100 for siphonic drainage and for preventive fire protection for flat roofs with requirements according to DIN 18234
Material	Sheet steel, polyethylene, polyurethane
Temperature resistance, min.	-20 °C
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



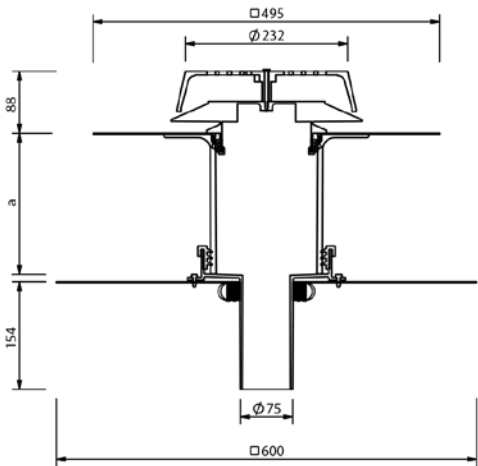
SitaDSS Fireguard® with Airstop



Tender text

SitaDSS Fireguard® with Airstop, for preventive fire protection and to prevent the spread of fire from below where there are small penetrations according to DIN 18234 Part 3 and 4, in two parts, consisting of: PE base body with collar for fixing to the reinforcement plate and for clamping the vapour barrier, to DIN EN 1253-2. Including extension unit for insulating material thicknesses from 65 mm to 210 mm or 105 mm to 570 mm made of PUR with large connection sleeve of choice and dome grate with Airstop. For direct connection to PE pipes (butt welding or with electrofusion socket), for siphonic drainage, with a sealing sleeve and a reinforcement plate to DIN EN 1090-4, with pre-assembled fire protection sleeve, supply complete and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Recess dimension (mm x mm)	a (mm)	Thickness of insulation material	Article number
70	75	185	150 x 150	200	65-210	F 30 23 xx
				550	105-570	F 30 24 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
70	0,7	1,6	2,5	3,5	4,5	6,1	7,6	11,8	16	16,6	17,2	17,3	17,4	17,5	17,5	17,5	17,5	17,5	17,5	17,5

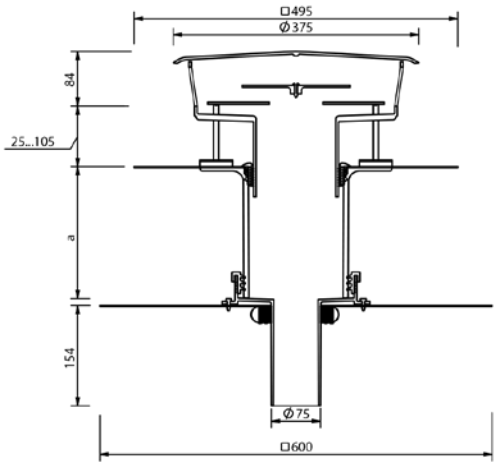
SitaDSS Fireguard® with retaining element



Tender text

SitaDSS Fireguard® with retaining element, DN 70, for preventive fire protection and to prevent the spread of fire from below where there are small penetrations according to DIN 18234 Part 3 and 4, in two parts, consisting of: PE base body with collar for fixing to the reinforcement plate and for clamping the vapour barrier, to DIN EN 1253-2, retaining height. Including extension unit for insulating material thicknesses from 65 mm to 210 mm or 105 mm to 570 mm made of PUR with large connection sleeve of choice and retaining element with Airstop. For direct connection to PE pipes (butt welding or with electrofusion socket), for siphonic drainage, with a sealing sleeve and a reinforcement plate to DIN EN 1090-4, with pre-assembled fire protection sleeve, supply complete and install to professional standards.

Technical drawing



SitaDSS
Fireguard®

DN	OD*	Opening/Core borehole (mm)	Recess dimension (mm x mm)	a (mm)	Thickness of insulation material	Article number
70	75	185	150 x 150	200	65-210	F 30 25 xx
				550	105-570	F 30 26 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
70	0,7	1,9	3,0	4,3	5,5	8,1	10,7	13,7	16,7	19,9	17,1	17,2	17,3	17,4	17,5	17,5	17,5	17,5	17,5	17,5

SitaDSS Fireguard®

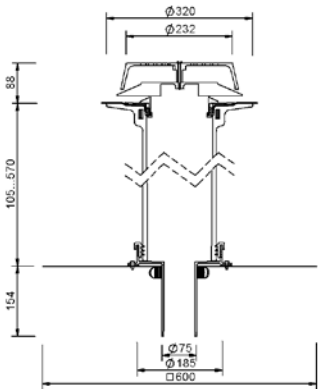
Screw-on flange with Airstop



Tender text

SitaDSS Fireguard® screw-on flange with Airstop, for preventive fire protection and to prevent the spread of fire from below where there are small penetrations according to DIN 18234 Part 3 and 4, in two parts, consisting of: PE base body with collar for fixing to the reinforcement plate and for clamping the vapour barrier, to DIN EN 1253-2. Including extension unit for insulating material thicknesses from 105 mm to 570 mm made of PUR with screw-on flange construction and dome grate with Airstop. For direct connection to PE pipes (butt welding or with electrofusion socket), for siphonic drainage, with a sealing sleeve and a reinforcement plate to DIN EN 1090-4, with pre-assembled fire protection sleeve, supply complete and install to professional standards.

Technical drawing



SitaDSS
Fireguard®

DN	OD*	Opening/Core borehole (mm)	Recess dimension (mm x mm)	Thickness of insulation material	Article number
70	75	185	150 x 150	105-570	F 30 24 99

* OD = Outer diameter (mm)

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	0,7	1,6	2,5	3,5	4,5	6,1	7,6	11,8	16	16,6	17,2	17,3	17,4	17,5	17,5	17,5	17,5	17,5	17,5	17,5

SitaDSS Fireguard®

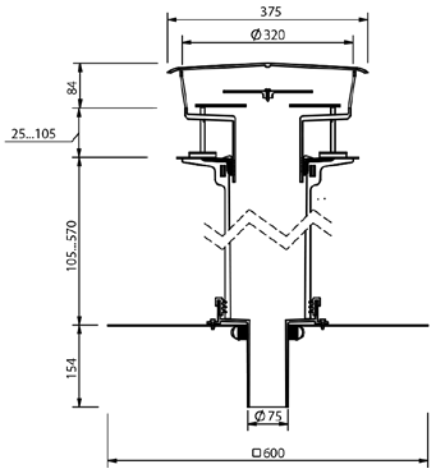
Screw-on flange with retaining element



Tender text

SitaDSS Fireguard® screw-on flange with retaining element, DN 70, for preventive fire protection and to prevent the spread of fire from below where there are small penetrations according to DIN 18234 Part 3 and 4, in two parts, consisting of: PE base body with collar for fixing to the reinforcement plate and for clamping the vapour barrier, to DIN EN 1253-2, retaining height. Including extension unit for insulating material thicknesses from 105 mm to 570 mm made of PUR with screw-on flange construction and retaining element with Airstop. For direct connection to PE pipes (butt welding or with electrofusion socket), for siphonic drainage, with a sealing sleeve and a reinforcement plate to DIN EN 1090-4, with pre-assembled fire protection sleeve, supply complete and install to professional standards.

Technical drawing



SitaDSS
Fireguard®

DN	OD*	Opening/Core borehole (mm)	Recess dimension (mm x mm)	Thickness of insulation material	Article number
70	75	185	150 x 150	105-570	F 30 26 99

* OD = Outer diameter (mm)

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	0,7	1,9	3,0	4,3	5,5	8,1	10,7	13,7	16,7	19,9	17,1	17,2	17,3	17,4	17,5	17,5	17,5	17,5	17,5	17,5

SitaFireguard®

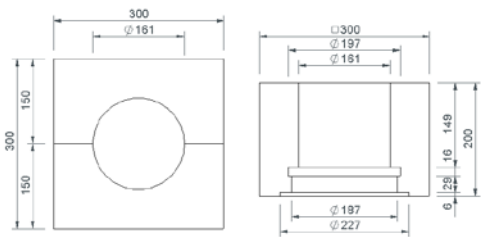
Insulating body Mineral wool



Tender text

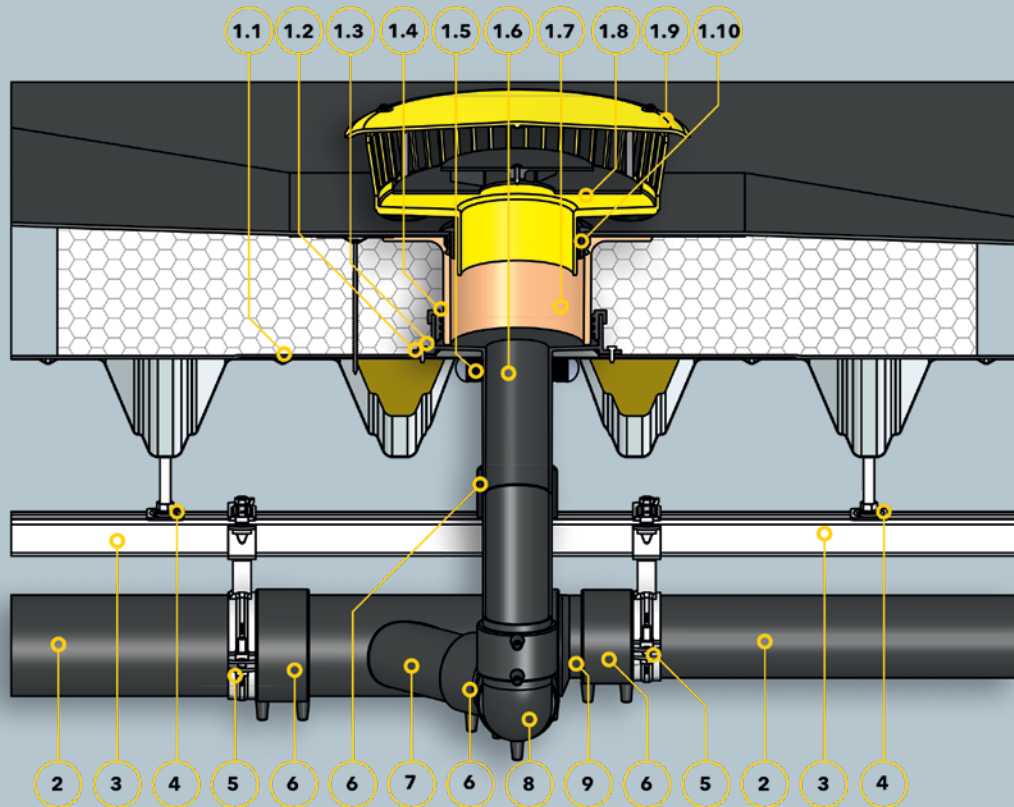
SitaFireguard® insulating body, made of mineral fibres, WLG 040, height 200 mm, material class A1 (not flammable), application type DAA dm according to DIN 4108-10, compressive stress ≥ 70 kPa. For thermal insulation and for use as an installation aid for positioning the extension unit for the SitaFireguard, SitaDSS Fireguard and the PE pipe for the SitaVent Fireguard, supply and install to professional standards.

Technical drawing



SitaDSS
Fireguard®

Compatibility	Article number
SitaFireguard®, SitaDSS Fireguard®, SitaVent Fireguard®	E 10 96 13



Components

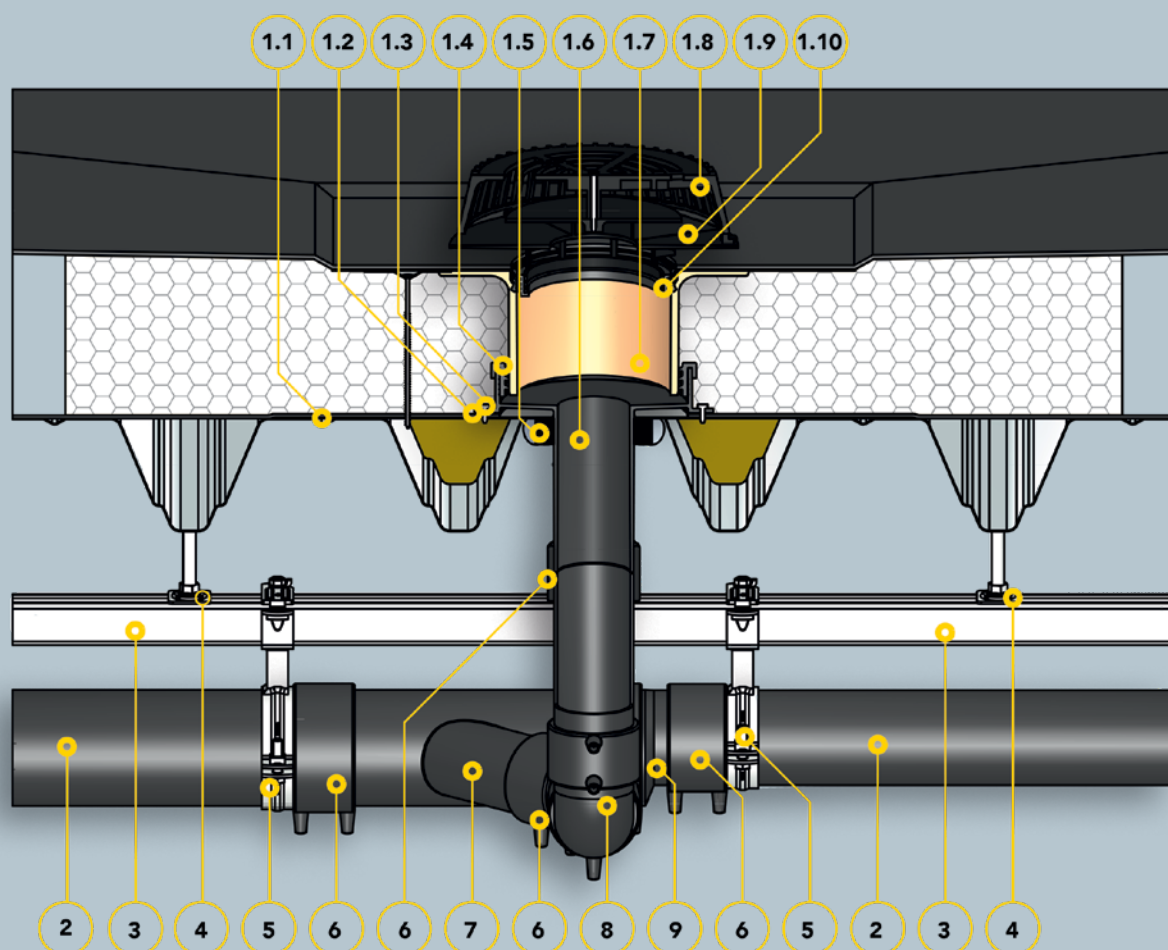
SitaFireguard® emergency drainage consisting of:

- | | | | |
|-------------|----------------------------------|----------|------------------------------------|
| 1.1 | Reinforcement plate | 3 | SitaDSS Rail mounting rail |
| 1.2 | Sealing sleeve | 4 | SitaDSS Rail suspension unit rigid |
| 1.3 | Self-tapping screw | 5 | SitaDSS clamp fastening unit |
| 1.4 | Seal | 6 | SitaPipe PE electrofusion socket |
| 1.5 | Fire protection sleeve | 7 | SitaPipe PE branch 45° |
| 1.6 | PE base body | 8 | SitaPipe PE bend 88.5° |
| 1.7 | Extension unit | 9 | SitaPipe PE reduction piece |
| 1.8 | Retaining element base body | | |
| 1.9 | Retaining element cover | | |
| 1.10 | Retaining element fastening ring | | |
| 2 | SitaPipe PE pipe | | |

Roof structure

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

- + Sealing
- + Thermal insulation non-flammable, min. 1.0 m x 1.0 m
- + Vapour barrier
- + Non-flammable section fillers
- + Steel trapezoidal section



Components

SitaDSS Fireguard® emergency drainage consisting of:

- 1.1 Reinforcement plate
- 1.2 Sealing sleeve
- 1.3 Self-tapping screw
- 1.4 Seal
- 1.5 Fire protection sleeve
- 1.6 PE base body
- 1.7 Extension unit
- 1.8 Dome grate
- 1.9 Airstop
- 1.10 Airstop fastening ring

- 2 SitaPipe PE pipe
- 3 SitaDSS Rail mounting rail
- 4 SitaDSS Rail suspension unit rigid
- 5 SitaDSS Clamp fastening unit
- 6 SitaPipe PE electrofusion socket
- 7 SitaPipe PE branch 45°
- 8 SitaPipe PE bend 88.5°
- 9 SitaPipe PE reduction piece

Roof structure

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

- + Sealing
- + Thermal insulation non-flammable, min. 1.0 m x 1.0 m
- + Vapour barrier
- + Non-flammable section fillers
- + Steel trapezoidal section

SitaDSS Ravana

Extra small. Extra flexible.



SitaDSS
Ravana

- + For small roof areas or gutters
- + For main or emergency drainage
- + Two-piece structure with the SitaDSS Ravana extension unit
- + Width only 195 mm
- + Non-combustible



SitaDSS Ravana
Screw-on flange Vertical



SitaDSS Ravana
Screw-on flange
Extension unit



SitaDSS Ravana
Retaining element

SitaDSS Ravana

Product features at a glance:

Product features

Applications	For main and emergency drainage as siphonic drainage to DIN EN 12056-3 and DIN 1986-100 for used and unused flat and slightly pitched roofs and gutters
Material	Stainless steel
Design	Vertical
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 + Universal for any seal
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 Ravana

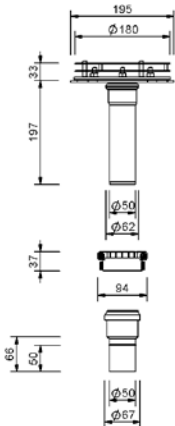
Screw-on flange Vertical



Tender text

SitaDSS Ravana, gutter rainwater outlet for siphonic drainage, made of rust-proof stainless steel, material no. 1.4301, to DIN EN 1253-2, in size DN 50, with an adapter consisting of a PE-HD plug-in coupler DN 50 in a length of 115 mm with connector, for direct connection to PE pipes to DIN EN 1519. With a discharge rate to prEN 1253-2:2013 of 15.7 l/s with a water column of 46 mm, with pre-drilled holes to secure the component in the substructure, with six threaded rods M8, length 25 mm, washers and hexagon nuts, loose flange made of rust-proof stainless steel, material no. 1.4301, with welding pins to hold the Airstop, two sealing sleeves for clamping bitumen, plastic or EPDM roofing membranes. Complete including Airstop, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Article number
50	50	100	28 00 99

* OD = Outer diameter (mm)

SitaDSS Ravana

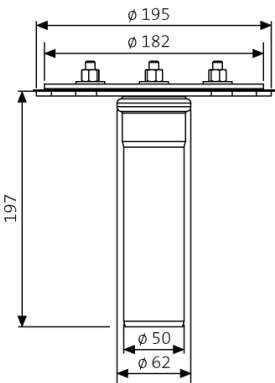
Screw-on flange Extension unit



Tender text

SitaDSS Ravana extension unit, made of rust-proof stainless steel, material No. 1.4301 to DIN EN 1253-2, for insulation material thicknesses of 50-160 mm, with pre-drilled holes to secure the component in the substructure, stainless steel loose flange, material No. 1.4301, two sealing sleeves for clamping bitumen, plastic or EPDM roofing membranes, supply and install to professional standards.

Technical drawing



Bridging of thermal insulation min. (mm)	Bridging of thermal insulation max. (mm)	Article number
50	160	28 25 99

SitaDSS Ravana

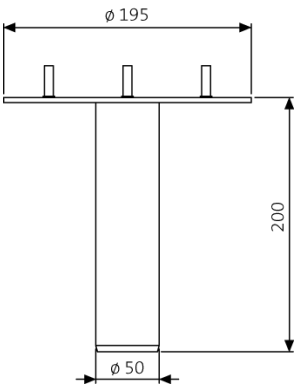
Retaining element



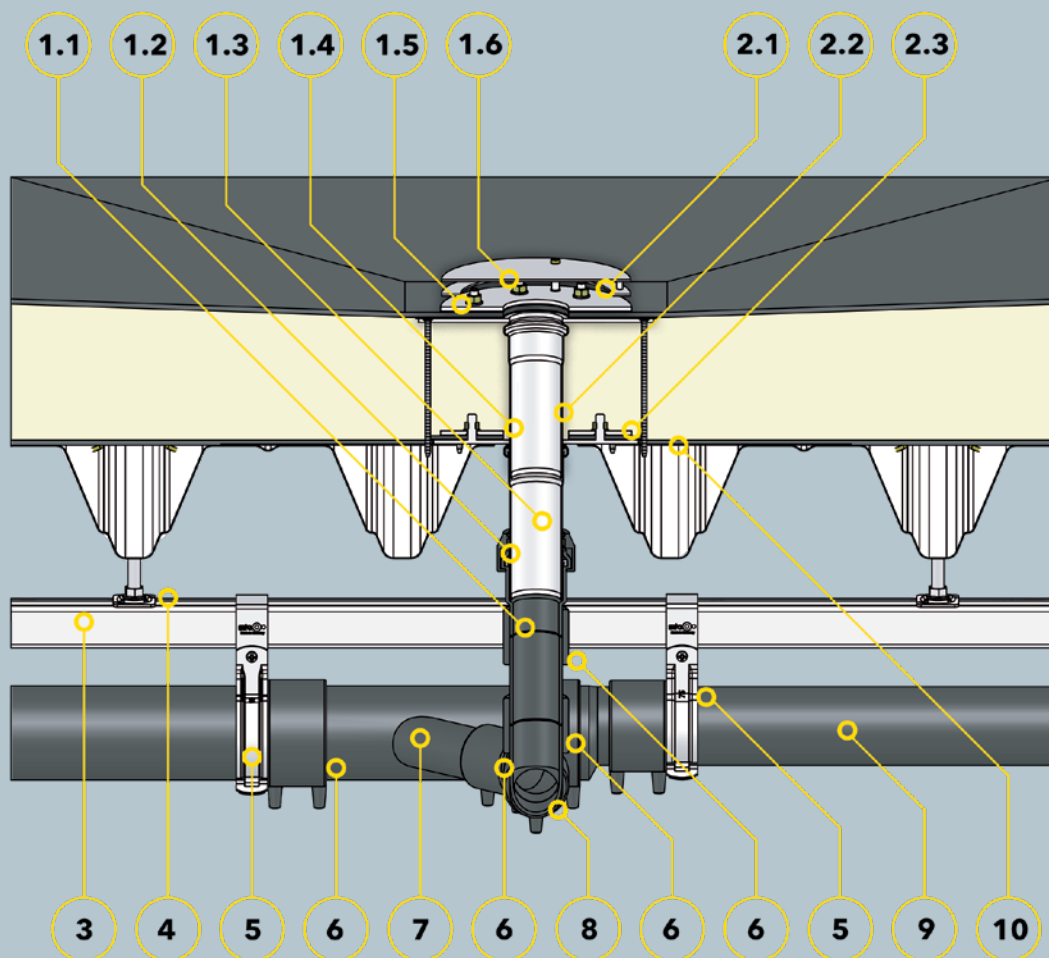
Tender text

SitaDSS Ravana retaining element for emergency drainage for SitaDSS Ravana siphonic drain, made of stainless steel, material no. 1.4301, to DIN EN 1253-2, retaining height from 30 to 150 mm, with a discharge rate of 14.1 l/s full fill at a water column of 43 mm, to prEN 1253-2:2013, supply and install to professional standards.

Technical drawing



Damming height from-to (mm)	Article number
30-150	28 90 01



Components

SitaDSS Ravana consisting of:

- 1.1 PE-HD plug-in coupler
- 1.2 Safety clamp
- 1.3 Base body
- 1.4 Washers, nuts and sealing sleeves
- 1.5 Loose flange
- 1.6 Airstop

SitaDSS Ravana extension unit consisting of:

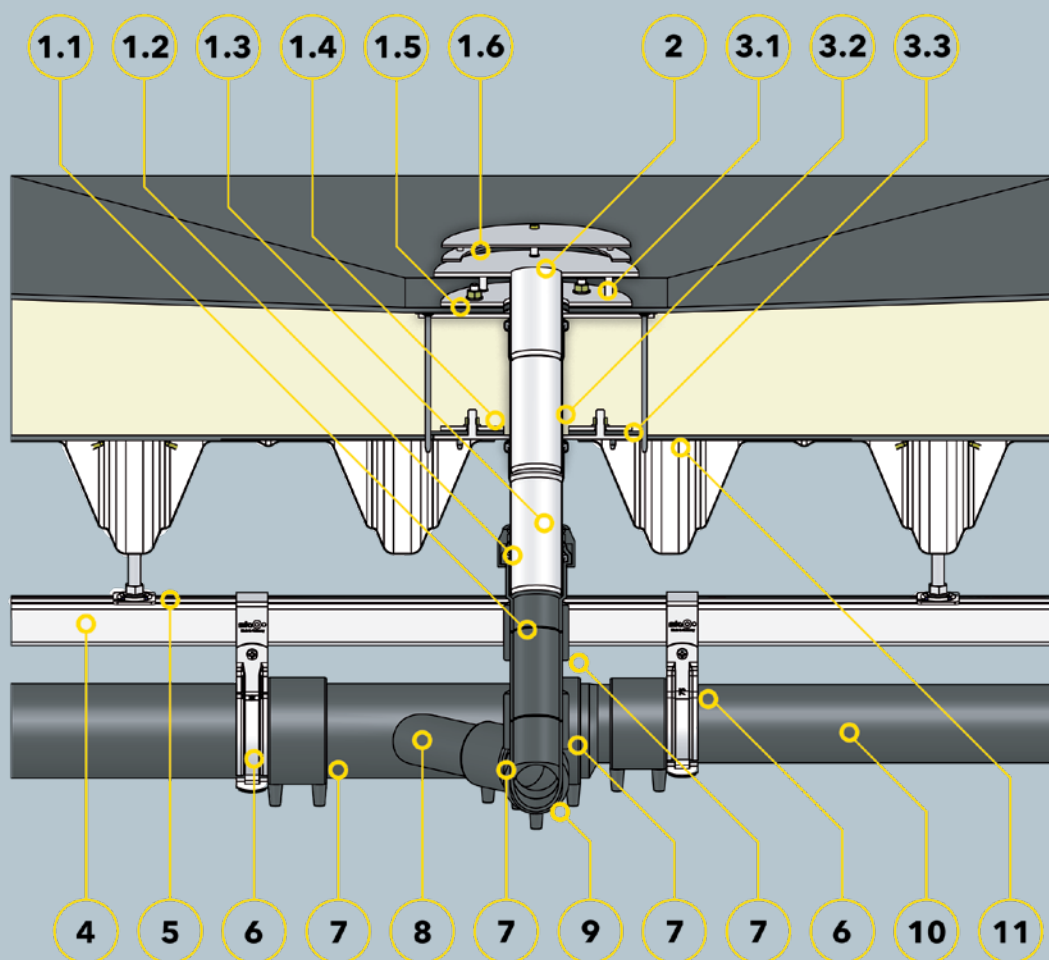
- 2.1 Washers, nuts and sealing sleeves
- 2.2 Base body
- 2.3 Loose flange

- 3 SitaDSS Rail mounting rail
- 4 SitaDSS Rail suspension unit
- 5 SitaDSS Clamp
- 6 SitaDSS PE electrofusion socket
- 7 SitaDSS PE branch
- 8 SitaDSS PE bend
- 9 SitaDSS PE pipe
- 10 SitaMore reinforcement plate

Roof structure

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

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



Components

SitaDSS Ravana consisting of:

- 1.1 PE-HD plug-in coupler
- 1.2 Safety clamp
- 1.3 Base body
- 1.4 Washers, nuts and sealing sleeves
- 1.5 Loose flange
- 1.6 Airstop

- 2 SitaDSS Ravana retaining element

SitaDSS Ravana extension unit consisting of:

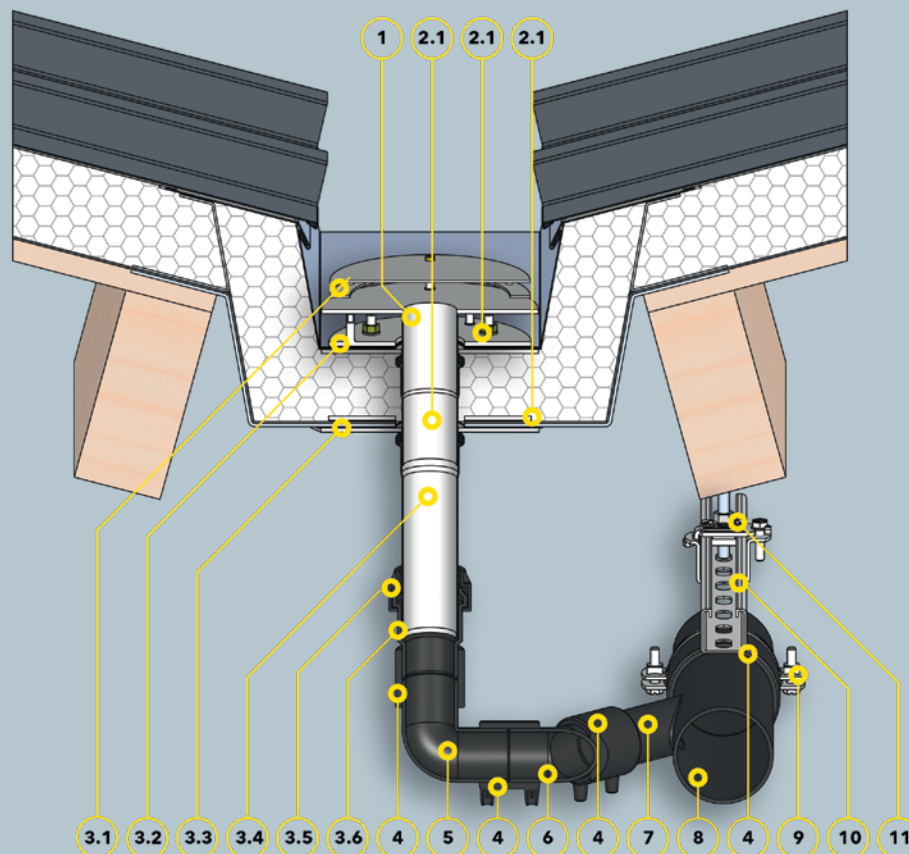
- 3.1 Washers, nuts and sealing sleeves
- 3.2 Base body
- 3.3 Loose flange

- 4 SitaDSS Rail mounting rail
- 5 SitaDSS Rail suspension unit
- 6 SitaDSS Clamp
- 7 SitaDSS PE electrofusion socket
- 8 SitaDSS PE branch
- 9 SitaDSS PE bend
- 10 SitaDSS PE pipe
- 11 SitaMore reinforcement plate

Roof structure

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

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



Components

1 SitaDSS Ravana retaining element

SitaDSS Ravana extension unit consisting of:

2.1 Base body

2.2 Washer, nuts and sealing sleeves

2.3 Loose flange

SitaDSS Ravana consisting of:

3.1 Airstop

3.2 Loose flange

3.3 Washers, nuts and sealing sleeves

3.4 Base body

3.5 Safety clamp

3.6 PE-HD plug-in coupler

4 SitaDSS PE electrofusion socket

5 SitaDSS PE bend 88.5°

6 SitaDSS PE bend 45°

7 SitaDSS PE branch

8 SitaDSS PE pipe system

9 SitaDSS Clamp fixing

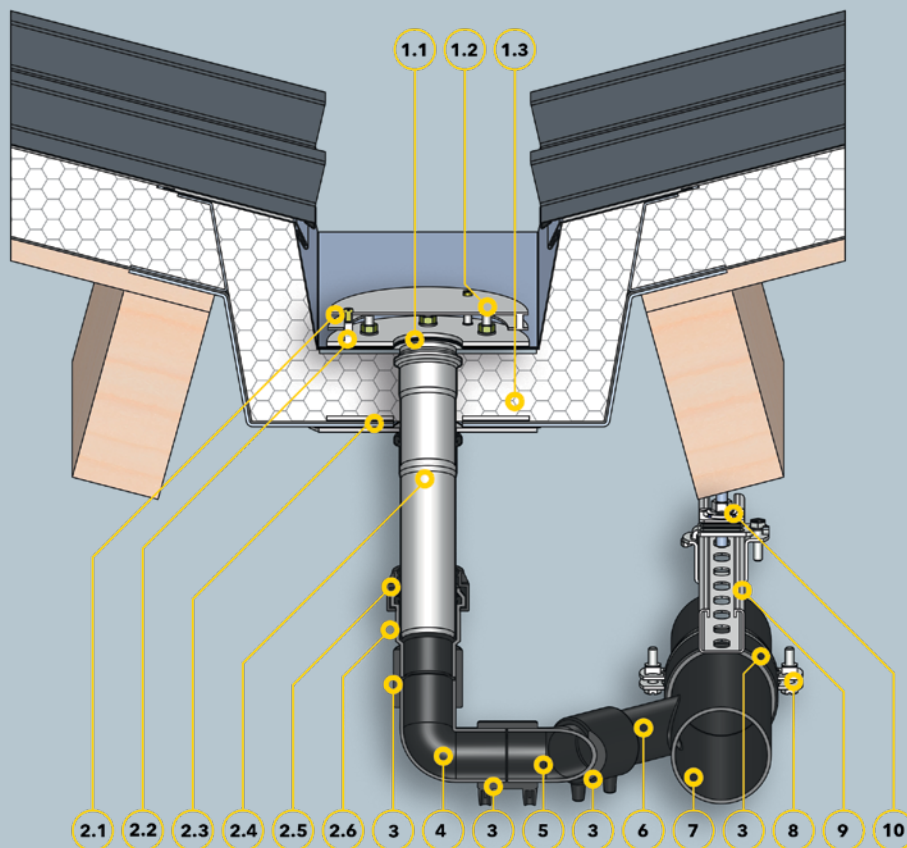
10 SitaDSS Rail mounting rail

11 SitaDSS Rail suspension unit

Roof structure

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

- + Roofing
- + Thermal insulation
- + Vapour barrier
- + Substructure



Components

SitaDSS Ravana extension unit consisting of:

- 1.1** Base body
- 1.2** Washer, nuts and sealing sleeves
- 1.3** Loose flange

SitaDSS Ravana consisting of:

- 2.1** Airstop
- 2.2** Loose flange
- 2.3** Washers, nuts and sealing sleeves
- 2.4** Base body
- 2.5** Safety clamp
- 2.6** PE-HD plug-in coupler

- 3** SitaDSS PE electrofusion socket
- 4** SitaDSS PE bend 88.5°
- 5** SitaDSS PE bend 45°
- 6** SitaDSS PE branch
- 7** SitaDSS PE pipe system
- 8** SitaDSS Clamp fixing
- 9** SitaDSS Rail mounting rail
- 10** SitaDSS Rail suspension unit

Roof structure

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

- + Roofing
- + Thermal insulation
- + Vapour barrier
- + Substructure

SitaDSS Ravana Plus

Narrow but high capacity.



- + For narrow gutters
- + For liquid applied waterproofing
- + Adhesive flange can be adjusted to the gutter geometry
- + With predrilled holes for fastening direct to the substructure



SitaDSS Ravana Plus
Vertical

SitaDSS Ravana Plus

Product features at a glance:

Product features

Applications	For siphonic drainage to DIN EN 12056-3 and DIN 1986-100 for used and unused flat roofs and gutters
Material	Stainless steel
Design	Vertical
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
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 Ravana Plus

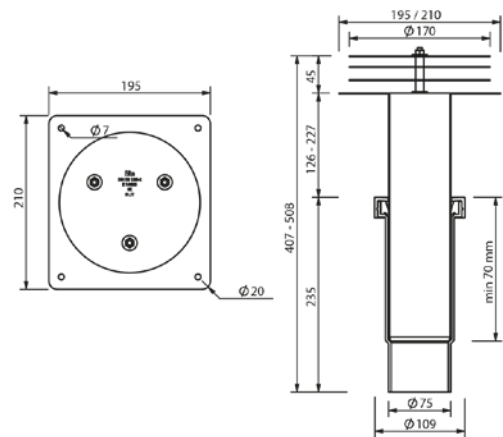
Vertical



Tender text

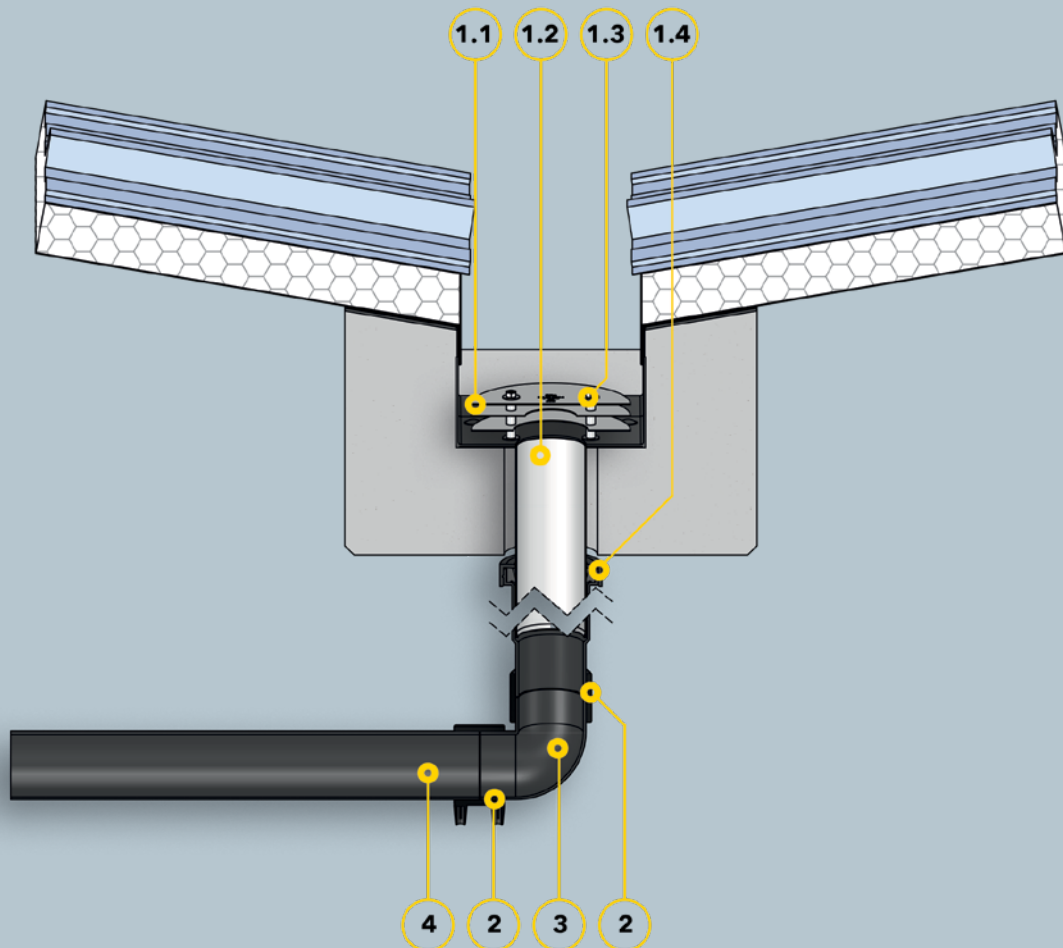
SitaDSS Ravana Plus, gutter rainwater outlet for siphonic drainage for liquid applied waterproofing, made of stainless steel, material No. 1.4301, to DIN EN 1253-2, in size DN/OD 70/75, with an adapter consisting of a plug-in coupler DN 70 and an EPDM seal, suitable for electrofusion sockets, for direct connection to PE pipes to DIN EN 1519. With a discharge rate to DIN EN 1253-2:2015-03 of 29.8 l/s with a retaining height of 70 mm and full filling, with pre-drilled holes to secure the component in the substructure, with three M6 x 55 threaded rods, washers and hexagon nuts, to hold the Airstop, complete including Airstop, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Article number
70	75	100	28 10 99

* OD = Outer diameter (mm)



Components

SitaDSS Ravana Plus consisting of:

- 1.1** Airstop
- 1.2** Base body
- 1.3** Mounting mandrel for Airstop, washers and fastening nuts
- 1.4** Expansion socket
- 2** SitaPipe PE electrofusion socket
- 3** SitaPipe PE bend
- 4** SitaPipe PE pipe

Roof structure

Roof build-up internal gutter
in accordance with aaRdT
+ Sandwich element
+ Sealing with liquid plastic
+ Substructure

SitaDSS Multi

Versatile performance. Uniquely resistant.



- + Non-combustible
- + Loose/fixed flange construction
- + Matching insulating body made of foam glass available
- + One-piece or two-piece installation possible
- + Suitable for gutters



SitaDSS Multi
Vertical With Airstop



SitaDSS Multi
Vertical Without Airstop



SitaDSS Multi
Screw-on flange
Extension unit



SitaDSS Multi
Retaining element



SitaDSS Multi
Insulating body for
rainwater outlet



SitaDSS Multi
Insulating body for
compensating ring



SitaDSS Multi
Insulating body for
extension element



SitaMulti
construction period
protective cover



SitaMore
Transition connector set



SitaDSS Multi
Connector set



SitaMore
Pipe sleeve heating



SitaMore
Reinforcement plate

SitaDSS Multi

Product features at a glance:

Product features

Applications	For main and emergency drainage as siphonic drainage to DIN EN 12056-3 and DIN 1986-100 for used and unused flat and slightly pitched roofs
Material	Cast iron
Design	Vertical
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 + Low noise + Universal for any seal
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 Multi

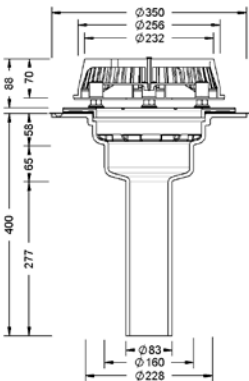
Vertical With Airstop



Tender text

SitaDSS Multi siphonic drainage rainwater outlet, made of cast iron, material EN-GJL-200, to DIN EN 1253-2, in size DN 80. For direct connection to SML pipes, for siphonic drainage, with drilled holes to secure the roof outlet in the substructure, with loose flange with weepholes, two sealing sleeves, six inserted stainless steel M12 threaded rods, washers, brass hexagon screws and caps, for clamping bitumen, plastic or EPDM roofing membranes. With Airstop including dome grate, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Article number
80	83	250	42 03 99

* OD = Outer diameter (mm)

SitaDSS Multi

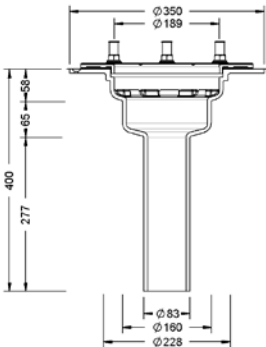
Vertical Without Airstop



Tender text

SitaDSS Multi siphonic drainage rainwater outlet without Airstop, made of cast iron, material EN-GJL-200 to DIN EN 1253-2, in sizes DN 80. For direct connection to SML pipes, for siphonic drainage, with drilled holes to secure the roof outlet in the substructure, with loose flange with weepholes, two sealing sleeves, six inserted stainless steel M12 threaded rods, washers, brass hexagon screws and caps, for clamping bitumen, plastic or EPDM roofing membranes. Only in combination with the SitaDSS Multi retaining element, supply and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Article number**
80	83	250	42 33 99

* OD = Outer diameter (mm)
 ** Without Airstop, to be utilised in combination with the SitaDSS Multi retaining element for emergency drainage only.

SitaDSS Multi

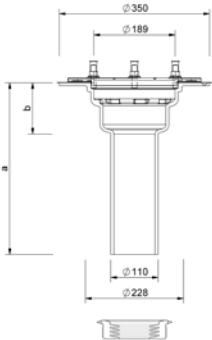
Screw-on flange Extension unit



Tender text

SitaDSS Multi extension unit, made of cast iron, material EN-GJL-200, to DIN EN 1253-2, for SitaDSS Multi roof outlet. With drilled holes to secure the extension unit in the substructure, with loose flange with weepholes, two sealing sleeves, six inserted stainless steel M12 threaded rods, washers, brass hexagon nuts and caps, for clamping bitumen, plastic or EPDM roofing membranes. Complete including multi-lip angled sealing ring for backflow protection, supply and install to professional standards.

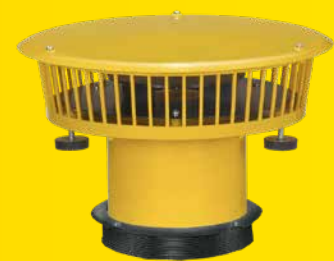
Technical drawing



a (mm)	b (mm)	Bridging of thermal insula- tion min. (mm)	Bridging of thermal insula- tion max. (mm)	Article number
400	119	80	300	42 27 99

SitaDSS Multi

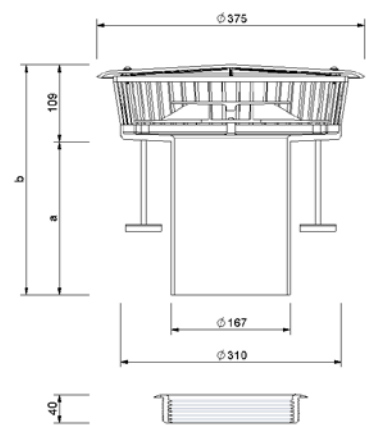
Retaining element



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	35-105	114	223	12 90 01
	85-150	214	323	12 90 11
	135-200			12 90 12

SitaDSS Multi

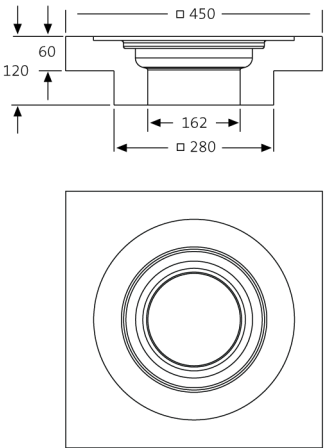
Insulating body for rainwater outlet



Tender text

SitaDSS Multi insulating body for outlet, made of foam glass, WLG 050, height 120 mm. For thermal insulation of the SitaDSS Multi roof outlet in the concrete ceiling. Can be used as concealed formwork for concreting, supply and installation to professional standards.

Technical drawing



Article number
42 90 03

SitaDSS Multi

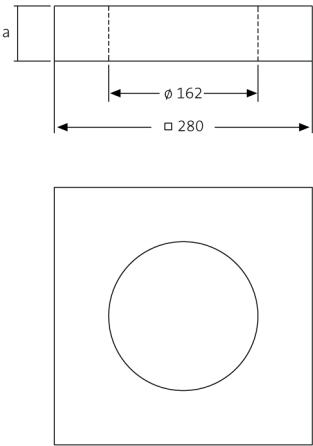
Insulating body for compensating ring



Tender text

SitaDSS Multi compensating ring for insulating body for outlet, made of foam glass, WLG 050, 40 mm or 60 mm in height. To compensate concrete ceilings higher than 120 mm, supply and installation to professional standards.

Technical drawing



a (mm)	Article number
40	42 90 04
60	42 90 05

SitaDSS Multi

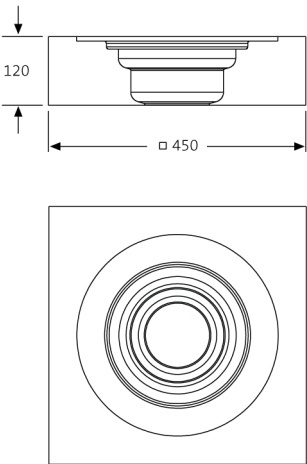
Insulating body for extension element



Tender text

SitaDSS Multi insulating body for extension unit, made of foam glass, WLG 050, height 120 mm. For thermal insulation and to hold the extension unit, supply and installation to professional standards.

Technical drawing



Article number
42 90 06

SitaMulti

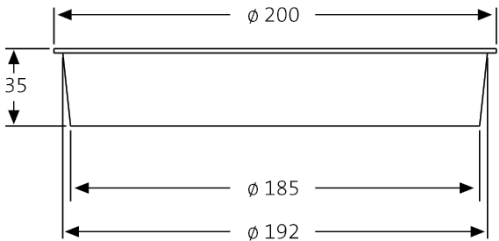
construction period protective cover



Tender text

SitaMulti construction period protective cover, inserted in drain body, it prevents the ingress of items during the construction period. Supply complete and install to professional standards.

Technical drawing



Compatibility	Article number
SitaMulti, SitaDSS Multi	E 40 90 10

SitaMore

Transition connector set



Tender text

SitaMore transition connector set in size DN 75 made of TPE/V2A, in size DN 56 made of EDPM/V2A, including support ring made of rust-proof stainless steel, for the stable connection of PE and SML pipe and formed parts, supply and install to professional standards.

Technical drawing

DN	a (mm)	b (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	Article number
56	90	40	89	66	51	49	80 20 56 58
70	80		101	84	71	69	80 20 75 83

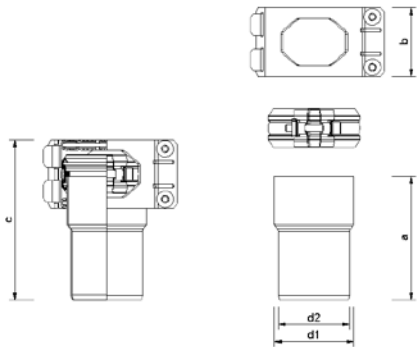
SitaDSS Multi Connector set



Tender text

SitaDSS Multi connector set DN 80, for the transition from SitaDSS Multi DN 80 to SitaPipe stainless steel pipe DN 70, consisting of an adapter made of rust-proof stainless steel, material number 1.4301, a Rapid connector and a retaining claw, supply and install to professional standards.

Technical drawing



DN	a (mm)	b (mm)	c (mm)	d1 (mm)	d2 (mm)	Article number
80	130	72	169	83	75	42 70 83

SitaMore

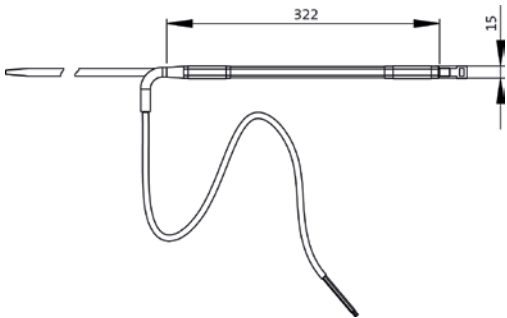
Pipe sleeve heating



Tender text

SitaMore pipe sleeve heating, for heating roof outlets and pipes, self-regulating PTC heating element with a heat rating of approx. 10 W at -20 °C and 230 V, with two cable ties for easy securing to pipes or roof outlets. No transformer required, supply and install to professional standards.

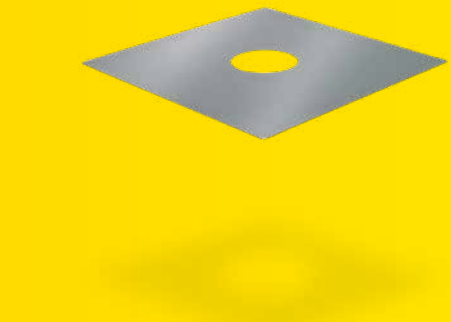
Technical drawing



Article number
10 90 35

SitaMore

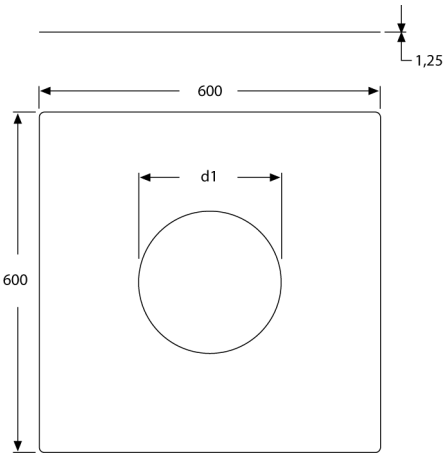
Reinforcement plate



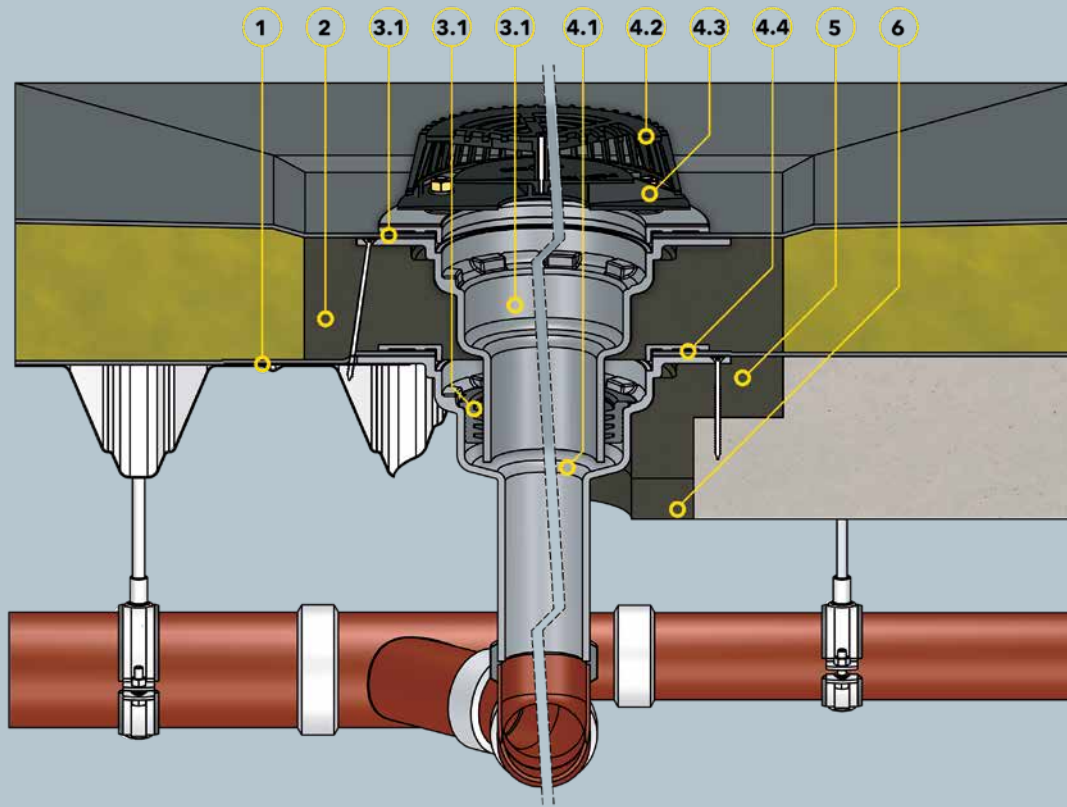
Tender text

SitaMore reinforcement plate, made of galvanised sheet steel, to reinforce small penetrations in the trapezoidal steel sheet, for SitaDSS Profi, SitaStandard, SitaTrendy, SitaTrendy screw-on flange, SitaVent system vent, SitaCompact, SitaMulti and SitaDSS, supply and install to professional standards.

Technical drawing



Compatibility	d1 (mm)	Article number
SitaStandard, SitaTrendy, SitaTrendy screw-on flange, SitaMulti, SitaDSS Profi, SitaDSS Multi and SitaVent system vent DN 150	250	10 90 00



Components

- 1 SitaMore reinforcement plate
- 2 SitaDSS Multi insulating body for extension unit

SitaDSS Multi extension unit consisting of:

- 3.1 Screw-on flange, nuts and sealing sleeves
- 3.2 Sealing ring
- 3.3 Base body

SitaDSS Multi consisting of:

- 4.1 Base body
- 4.2 Dome grate
- 4.3 Airstop

- 4.4 Screw-on flange, nuts and sealing sleeves
- 5 SitaDSS Multi insulating body for outlet
- 6 SitaDSS Multi compensating ring

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.

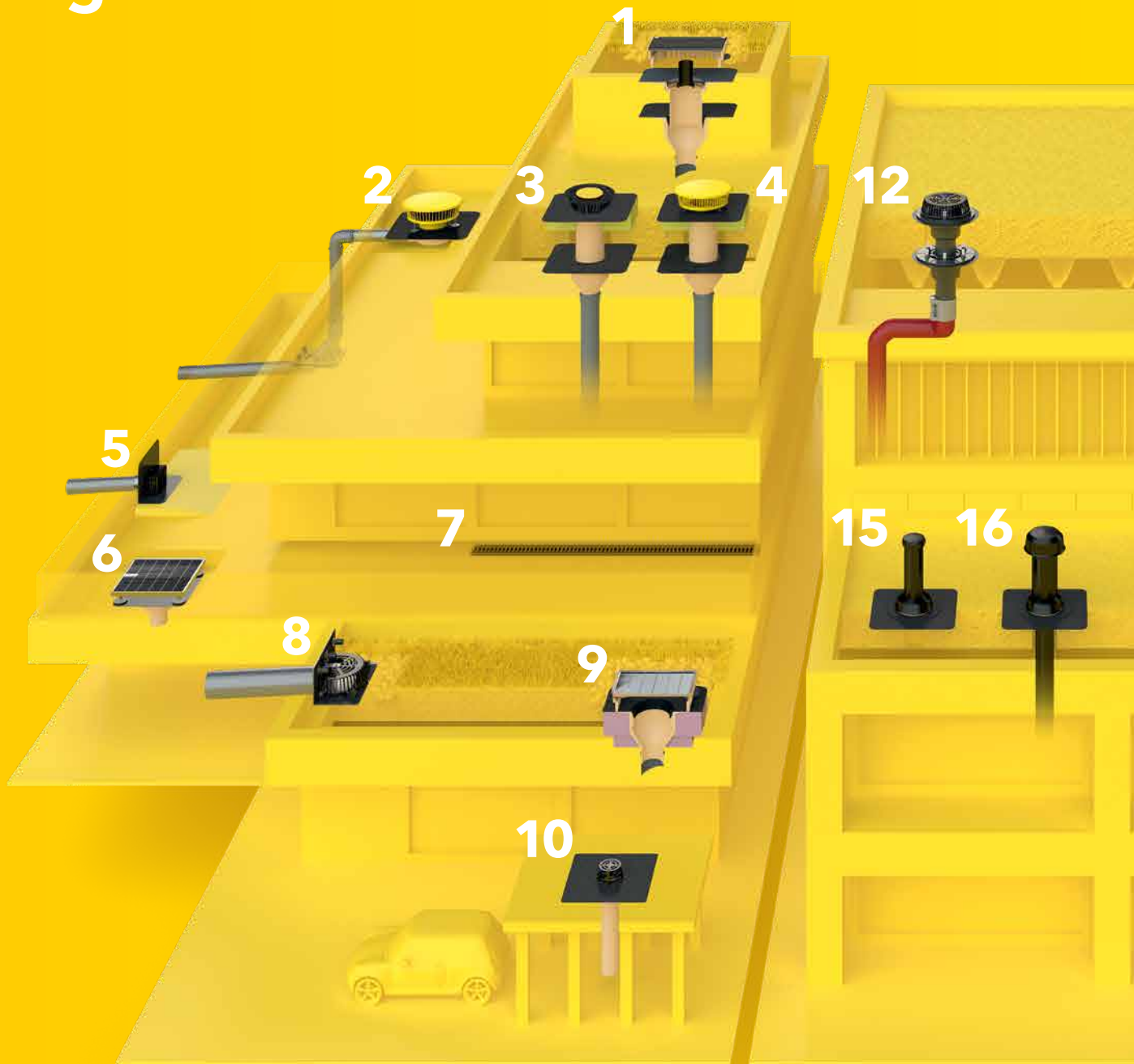
Sleeves from the special production

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

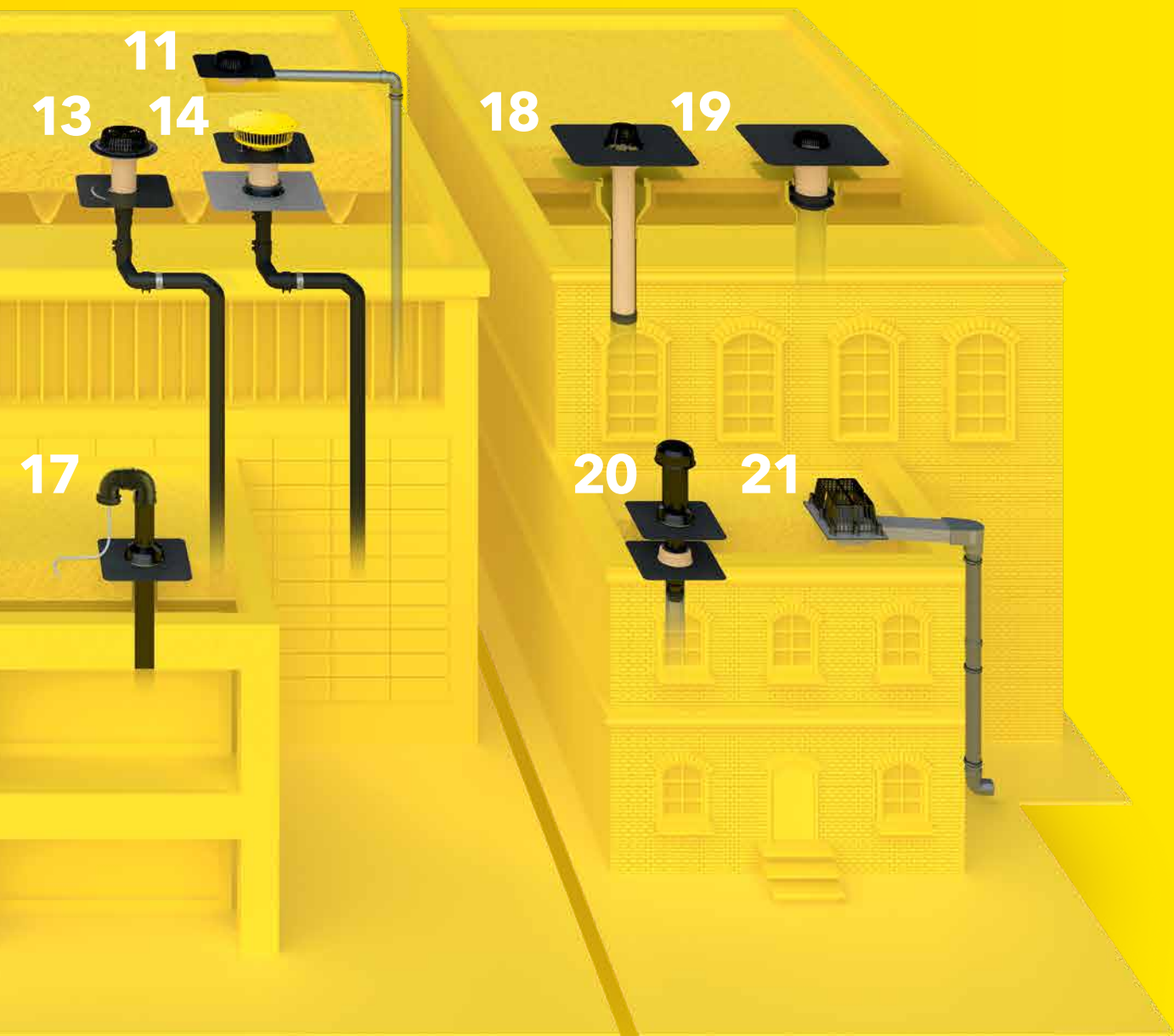
Surcharge see current price list

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

Superbly served - with the Sita product range.



- | | | | |
|---|---|----|---|
| 1 | SitaRetention green roof shaft with SitaRetention Fix | 5 | SitaEasy |
| 2 | SitaKaskade Inside with SitaDSS Indra emergency drainage set and SitaPipe stainless steel pipe system | 6 | SitaDrain® Terra with SitaCompact |
| 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 |



- 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
- 21** SitaTurbo loose retention valve

Our free calculation service.

**Do you need planning security?
We can provide advice and help.
And we make it very easy for you.**

Our experts calculate your main and emergency drainage in compliance with the standards, based on the data of your roof area. Giving us the location of your project enables us to include precise rainfall data in the calculation. That gives you an accurate result calculated easily and exclusive for exactly your project-personal and precise. Simply complete our online form and send it to us.

If you have any questions,
feel free to give us a call:
+44 (0) 7402239777



**Sita advice provided
the security
I needed at all
phases of planning
and construction.**

Sita direct. Contacts.

**Export
Manager**



Udo Happe
Ferdinand-Braun-Straße 1
D-33378 Rheda-Wiedenbrück
T +49 2522 8340-178
M +49 173 6588061
E u.happe@sit-bauelemente.de

**Business
Development
Manager**



Cengiz Karadeniz
Ferdinand-Braun-Straße 1
D-33378 Rheda-Wiedenbrück
T +49 2522 8340-362
M +49 172 5746343
E c.karadeniz@sit-bauelemente.de

**Technical
Consultant**



Ben Ward
Sita Bauelemente GmbH/UK
26 Whirlow Court Road
Sheffield, S11 9NT
United Kingdom
T +44 (0) 7402239777
E b.ward@sit-bauelemente.co.uk

**Export
Area Manager**



Ivan Eremin
Ferdinand-Braun-Straße 1
D-33378 Rheda-Wiedenbrück
T +49 2522 8340-369
M +49 171 3811079
E i.eremin@sit-bauelemente.de

**Sales
Department
Export**



Sarah Möller
Ferdinand-Braun-Straße 1
D-33378 Rheda-Wiedenbrück
T +49 2522 8340-149
E s.moeller@sit-bauelemente.de

**Sales
Department
Export**



Tanja Bauersfeld
Ferdinand-Braun-Straße 1
D-33378 Rheda-Wiedenbrück
T +49 2522 8340-351
E t.bauersfeld@sit-bauelemente.de

Internal Sales Conventional Drainage
F +49 2522 8340-140
E vertrieb@sit-bauelemente.de

Sitaleicht. Environmental Declaration Declared.

- + First EPD for the area of flat roof drainage according to ISO 14025 and EN 15804
- + Life Cycle Assessment for Polyurethane Components
- + Consideration of the life cycle process
- + Ensuring sustainability & corporate transparency



Information on the ecological balance of products is increasingly being requested. With the EPD, Environmental Product Declaration, we are taking a further step towards sustainability and corporate transparency.

Learn more



Sita product segments:



Conventional
drainage



Balcony and
terrace drainage



Fire
protection



Siphonic
drainage



Drainage



Pipe



Emergency
drainage



Green roof
and retention



Parapet
drainage



Refurbishment



Kaskade



Ventilation and
pipe fairlead

Sita Bauelemente GmbH
Ferdinand-Braun-Straße 1
33378 Rheda-Wiedenbrück
T +49 2522 8340-0
E info@sita-bauelemente.de
W sita-bauelemente.de

