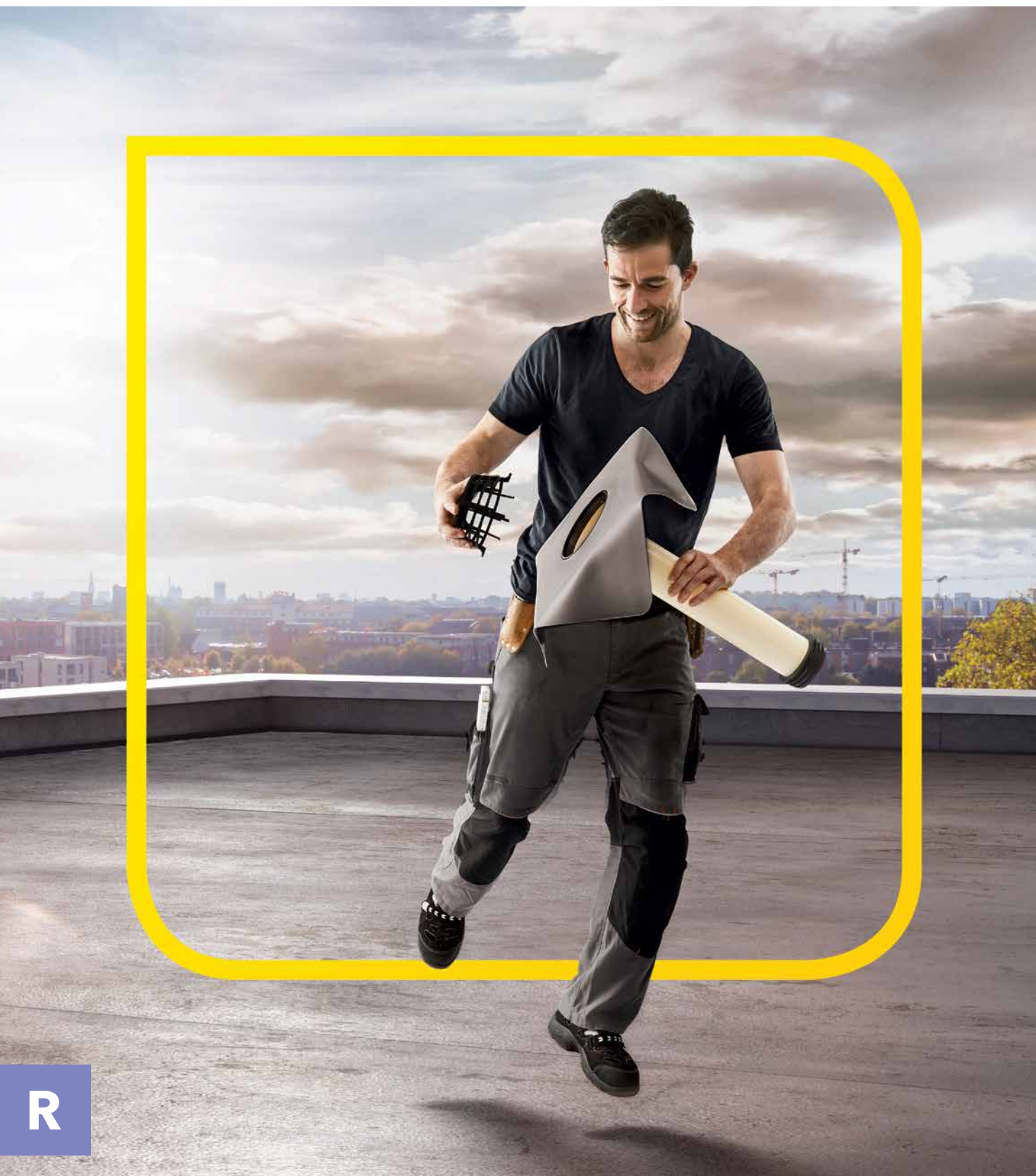


Sitaleicht.
Refurbishment.



R

leicht entwässern.

R

for refurbishment:

The older the roof, the greater the risk.

Keep an eye on the condition of your roof at all times with Sita. Flat roof refurbishment is required more and more frequently. There are lots of reasons for this – changed regulations, leaking old rainwater outlets and pipelines, damaged roof skin and even saturated insulation. Statutory regulations mean that thermal insulation has to be topped up. As your refurbishment partner we can help you to update your drainage system – and comply with the required standards.

1

Why refurbishment?

06 The principle of refurbishment.

2

Product

08 **Decision matrix** Regulations

10 **SitaSani®**

12 Product details

30 Installation examples



32 **SitaSani® DSS**

34 Product details

38 Installation examples



39 **SitaVent refurbishment vent**

41 Product details

51 Installation examples



52 **SitaSani® Disc**

54 Product details

57 Installation examples



58 Sita calculation service

59 Connection sleeves

3

Sitaleicht

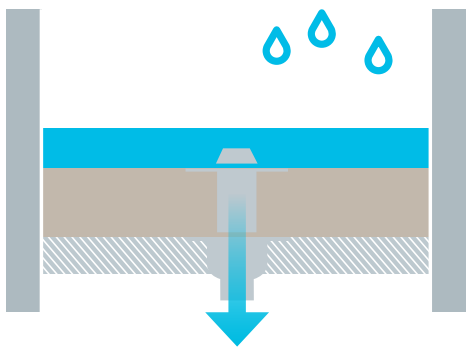
60 Sita product range

64 Sita contacts

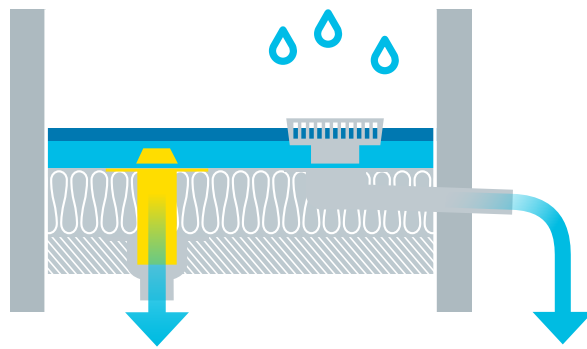
The older the roof, the greater the risk.

Sita is your safety net. Sita always has your roof and the passage of time in mind. Even for roofs in need of renovation, we deliver the best quality. Flat roofs that have been exposed to the weather for years will eventually need to be renovated. Whether it's upgrading the existing system or rebuilding from scratch, as your renovation partner, we provide unlimited support.

Retrofitting emergency drainage

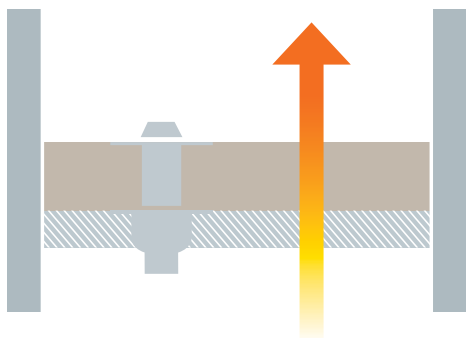


Overloading of a single system
due to heavy rain

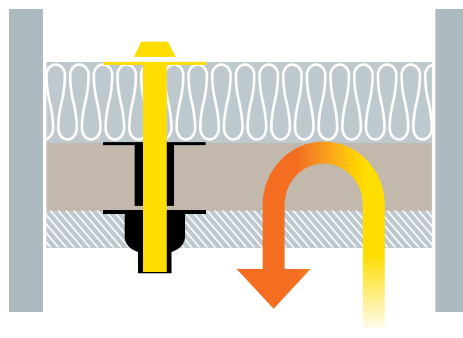


Standard-compliant drainage
with additional emergency drainage (NE)

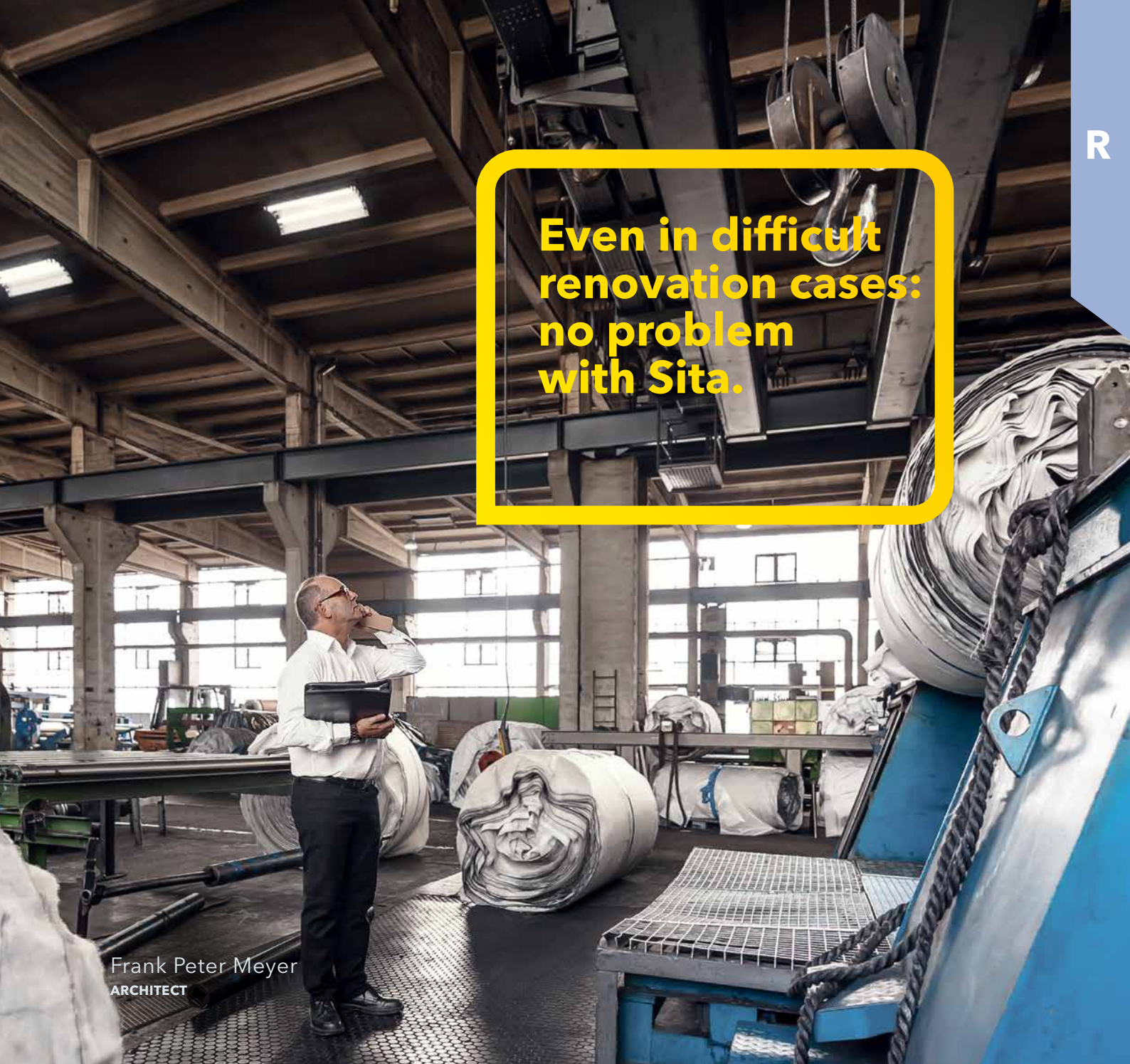
Increasing thermal insulation



Energy saving requirements not met
due to insufficient thermal insulation



Energy efficiency improvements
through additional roof insulation



Even in difficult
renovation cases:
no problem
with Sita.

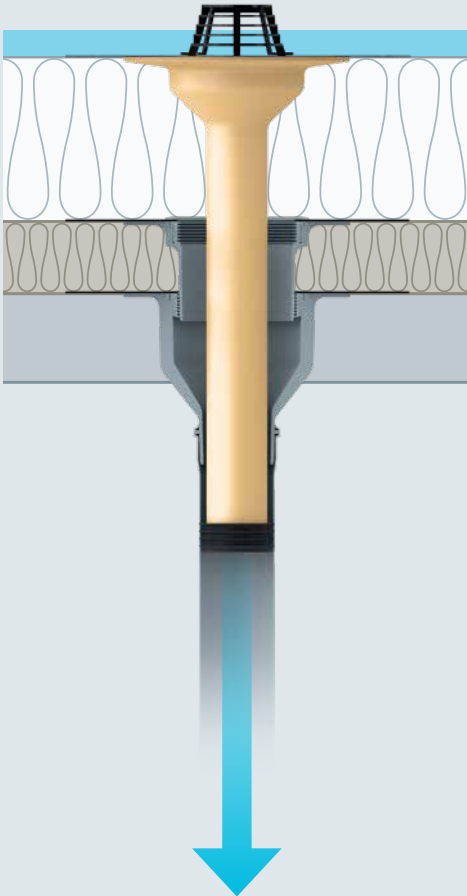
Frank Peter Meyer
ARCHITECT

Renovation made easy: efficient and value-preserving.

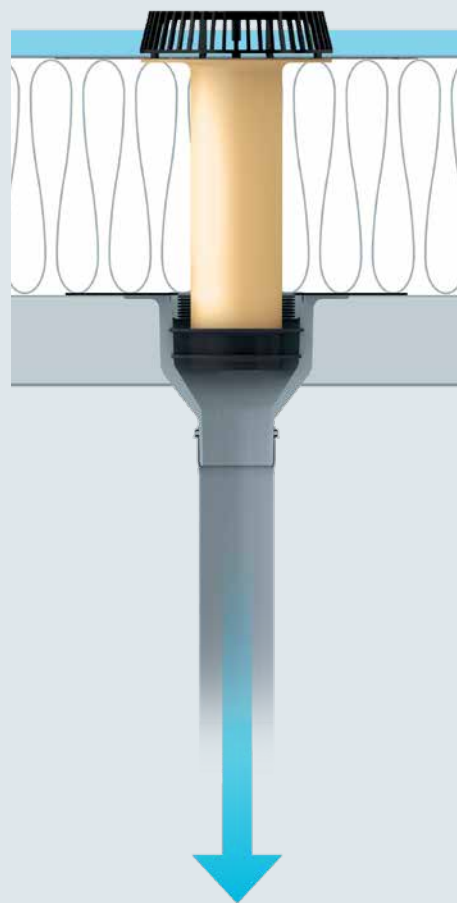
Sita is a renovator. Sita's renovation concept and matching components are designed to ensure that your existing drainage system can ideally continue to be used – so that you can continue production with as little interruption as possible, for example. As your renovation partner, we support you in maintaining your drainage system. And in complying with all the necessary standards. **DIN standards and regulations on page 8.**

The principle of renovation.

A SitaSani® for drainage into the existing pipe system



B SitaSani® for drainage through the existing roof drain

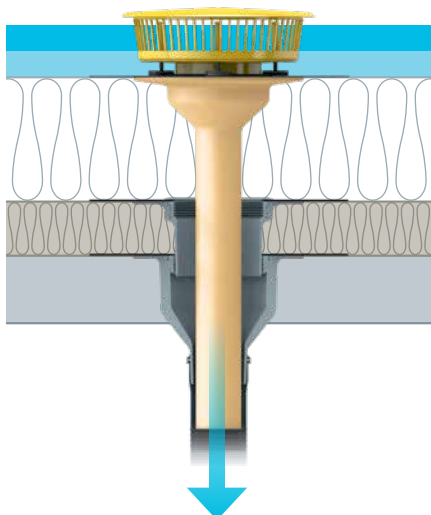


Important: There are various options for renovating drainage systems.

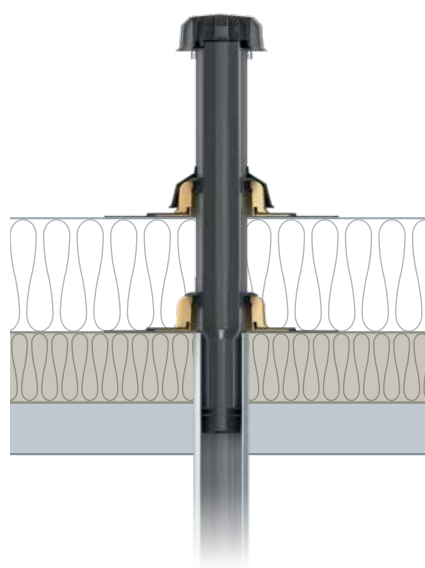
Sita renovation systems (A - F)

When renovating, the question arises as to whether the existing drains can be upgraded with new drains specially developed for this purpose, or whether a complete renovation is necessary. In both cases, it is essential to inspect the entire system, from the roof surface to the drains, including the pipes.

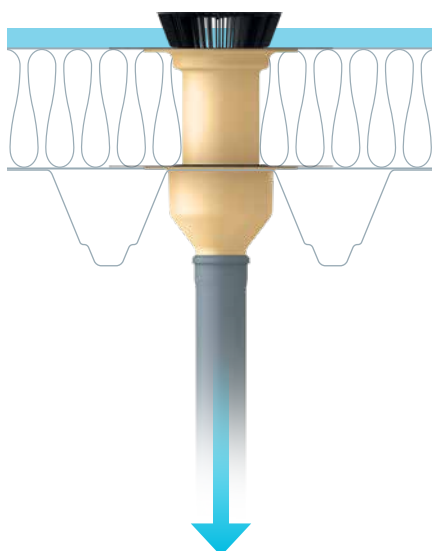
C **SitaSani® for drainage**
into the existing emergency drainage
system



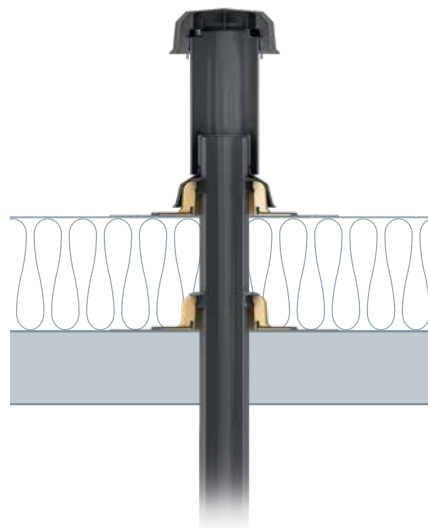
E **SitaVent refurbishment vent**
for ventilation and extraction
into the existing pipe



D **SitaStandard for drainage**
complete reconstruction of the roof



F **SitaVent system vent for ventilation and air**
circulation
Complete reconstruction of the roof



An easy decision.

Matrix

Type of drainage	For direct rehabilitation of the connecting pipe	Foam-filled custom connection sleeve	Screw flange design
Conventional drainage			
Siphonic drainage			
Ventilation			
Conventional & 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

Long connection piece	Extremely flat design	Suitable for combination with Sita roof drains and Sita ventilation components	Material properties	
			Polyurethane	
			Polyurethane	
			Polyurethane, polyamide, ventilation pipe made of polyethylene	
			Polyurethane	

Matrix

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

SitaSani®

The problem-solver. Multi-compatible.



SitaSani®

- + Backflow safe up to a water column of 2 metres
- + To refurbish roof outlets and for refurbishment down into the downpipe
- + With connection sleeve of choice or screw-on flange construction
- + Installed and sealed in no time



SitaSani®
63



SitaSani®
63
screw-on flange



SitaSani®
70



SitaSani®
70
screw-on flange



SitaSani®
90



SitaSani®
90
screw-on flange



SitaSani®
95



SitaSani®
105



SitaSani®
105
Schraubflansch



SitaSani®
115



SitaSani®
125



SitaSani®
165



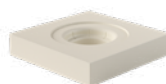
SitaSani®
165
screw-on flange



SitaMore
retaining element for
SitaTrendy/SitaSani



SitaMore
terrace kit



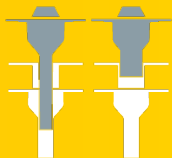
SitaSani®
insulating body
SitaSani®

Product features

Applications	For main and emergency drainage and for refurbishment into the downpipe of old roof outlets in flat and slightly pitched, used and unused roof surfaces
Material	Polyurethane
Design	vertical
Temperature resistance, min.	-40 °C
Temperature resistance, max.	80 °C
Material class	Euroclass E / B2 normal flammability
Properties	+ Thermally insulated + Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable + Backflow safe up to a water column of 2 m
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

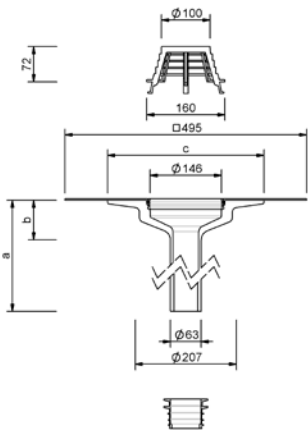




Tender text

SitaSani® 63 refurbishment outlet, made of polyurethane, height 550 mm, thermally insulated, to DIN EN 1253-2, for refurbishment of internal diameters of 68 mm - 86 mm. With large foamed-in connection sleeve of choice (495 mm x 495 mm) for homogeneous connection of the roofing membrane. With fixing ring for addition securing of the connection sleeve and to hold the dome grate. Complete including dome grate, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
68 - 86	550	81	320	10 63 xx

xx = Article end numbers for connection sleeve of choice

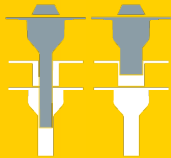
Discharge rate according to DIN EN 1253-2

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
63	0.5	1.3	2.1	3.2	4.2	5.0	6.1	6.4	6.8	7.1	7.7	8.4	9.0	10.1	12.0	12.2	12.3	12.5	12.7	12.8

SitaSani®

63

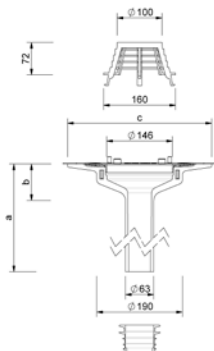
Screw-on flange



Tender text

SitaSani® 63 screw-on flange refurbishment outlet, made of polyurethane, height 550 mm, thermally insulated, to DIN EN 1253-2, for refurbishment of internal diameters of 68 mm - 86 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. Including dome grate, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

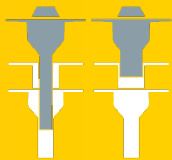
Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
68 - 86	550	81	320	10 63 99

Discharge rate according to DIN EN 1253-2

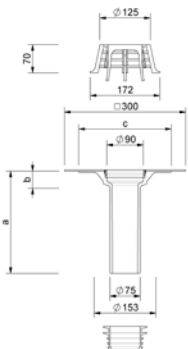
DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
63	0.5	1.3	2.1	3.2	4.2	5.0	6.1	6.4	6.8	7.1	7.7	8.4	9.0	10.1	12.0	12.2	12.3	12.5	12.7	12.8



Tender text

SitaSani® 70 refurbishment outlet, made of polyurethane, height 255 mm, thermally insulated, to DIN EN 1253-2, discharge rate 4.1 l/s at 35 mm retaining height, for refurbishment of internal diameters of 82 mm -103 mm. With large foamed-in connection sleeve of choice (300 mm x 300 mm) for homogeneous connection of the roofing membrane. With fixing ring for addition securing of the connection sleeve and to hold the dome grate. Complete including dome grate, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
82 - 103	255	44	229	10 36 xx

xx = Article end numbers for connection sleeve of choice

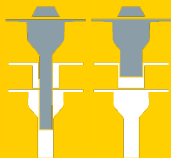
Discharge rate according to DIN EN 1253-2

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.7	1.2	1.7	2.2	2.5	3.4	4.1	4.7	5.3	5.9	6.8	7.6	9.0	10.0	10.6	10.6	10.6	10.6	10.6	10.6

SitaSani®

70

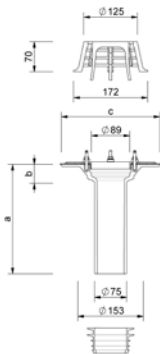
Screw-on flange



Tender text

SitaSani® 70 screw-on flange refurbishment outlet, made of polyurethane, height 255 mm, thermally insulated, to DIN EN 1253-2, discharge rate 4.1 l/s at 35 mm retaining height, for refurbishment of internal diameters of 82 mm - 103 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. Including dome grate, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

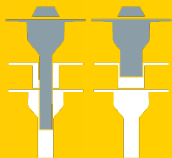
Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
82 - 103	255	44	229	10 36 99

Discharge rate according to DIN EN 1253-2

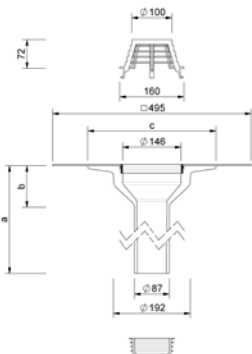
DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.7	1.2	1.7	2.2	2.5	3.4	4.1	4.7	5.3	5.9	6.8	7.6	9.0	10.0	10.6	10.6	10.6	10.6	10.6	10.6



Tender text

SitaSani® 90 refurbishment outlet, made of polyurethane, height 550 mm, thermally insulated, to DIN EN 1253-2, for refurbishment of internal diameters of 98 mm - 107 mm. With large foamed-in connection sleeve of choice (495 mm x 495 mm) for homogeneous connection of the roofing membrane. With fixing ring for addition securing of the connection sleeve and to hold the dome grate. Complete including dome grate, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
98 - 107	550	105	320	10 32 xx

xx = Article end numbers for connection sleeve of choice

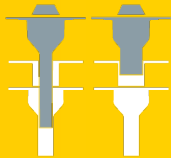
Discharge rate according to DIN EN 1253-2

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
90	0.5	1.3	2.1	3.1	4.0	4.9	5.7	6.7	7.7	7.9	8.2	8.4	9.6	11.0	15.3	16.5	17.6	18.9	20.1	20.1

SitaSani®

90

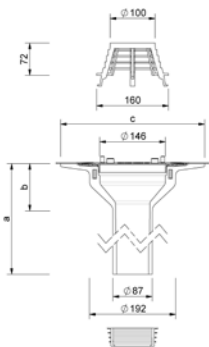
Screw-on flange



Tender text

SitaSani® 90 screw-on flange refurbishment outlet, made of polyurethane, height 550 mm, thermally insulated, to DIN EN 1253-2, for refurbishment of internal diameters of 98 mm - 107 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. Including dome grate, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

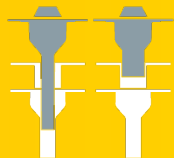
Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
98 - 107	550	105	320	10 32 99

Discharge rate according to DIN EN 1253-2

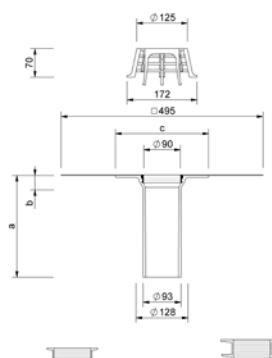
DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
90	0.5	1.3	2.1	3.1	4.0	4.9	5.7	6.7	7.7	7.9	8.2	8.4	9.6	11.0	15.3	16.5	17.6	18.9	20.1	20.1



Tender text

SitaSani® 95 refurbishment outlet, made of polyurethane, height 250 mm or 550 mm, thermally insulated, to DIN EN 1253-2, discharge rate 4.0 l/s at 35 mm retaining height, for refurbishment of internal diameters of 100 mm - 140 mm, with large foamed-in connection sleeve of choice (495 mm x 495 mm) for homogeneous connection of the roofing membrane, with fixing ring for addition securing of the connection sleeve and to hold the dome grate. Complete including dome grate, lubricant and two differently sized sealing rings for backflow protection, supply and install to professional standards.

Technical drawing

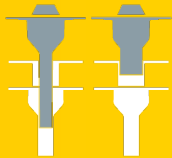


Backflow safe for refurbishing internal diameters from - to (mm) with lip sealing ring	Backflow safe for refurbishing internal diameters from - to (mm) with profiled sealing ring	a (mm)	b (mm)	c (mm)	Article number
100 - 110	107 - 140	250	35	229	10 28 xx
		550			10 38 xx

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2

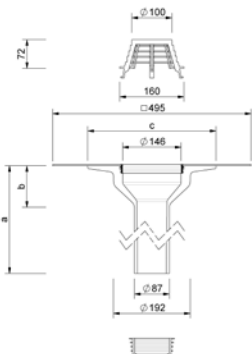
DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
95	0.5	1.0	1.4	1.9	2.6	3.3	4.0	4.7	5.3	6.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0



Tender text

SitaSani® 105 refurbishment outlet, made of polyurethane, height 550 mm, thermally insulated, to DIN EN 1253-2, discharge rate 7.2 l/s at 45 mm retaining height, for refurbishment of internal diameters of 105 mm - 134 mm. With large foamed-in connection sleeve of choice (495 mm x 495 mm) for homogeneous connection of the roofing membrane. With fixing ring for addition securing of the connection sleeve and to hold the dome grate. Complete including dome grate, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
105 - 134	550	105	320	10 33 xx

xx = Article end numbers for connection sleeve of choice

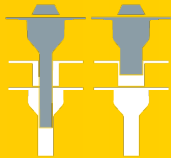
Discharge rate according to DIN EN 1253-2

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
105	0.5	1.2	2.1	3.0	3.9	4.8	5.6	6.4	7.2	8.0	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8

SitaSani®

105

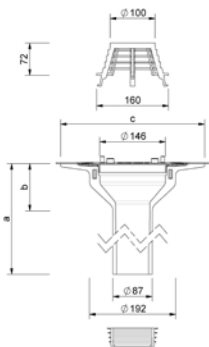
Screw-on flange



Tender text

SitaSani® 105 screw-on flange refurbishment outlet, made of polyurethane, height 550 mm, thermally insulated, to DIN EN 1253-2, discharge rate 7.20 l/s at 45 mm retaining height, for refurbishment of internal diameters of 105 mm - 134 mm. With pre-drilled holes for fastening 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. Including dome grate, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

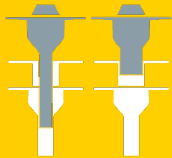
Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
105 - 134	550	105	320	10 33 99

Discharge rate according to DIN EN 1253-2

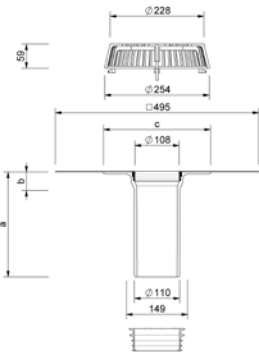
DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
105	0.5	1.2	2.1	3.0	3.9	4.8	5.6	6.4	7.2	8.0	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8



Tender text

SitaSani® 115 refurbishment outlet, made of polyurethane, height 255 mm, thermally insulated, to DIN EN 1253-2, discharge rate 5.7 l/s at 35 mm retaining height, for refurbishment of internal diameters of 115-130 mm. With large foamed-in connection sleeve of choice (495 mm x 495 mm) for homogeneous connection with the roofing membrane. With fixing ring for addition securing of the connection sleeve and to hold the dome grate. Complete including dome grate, extension pipe, lubricant and multi-lip sealing ring for backflow protection, supply and install to professional standards.

Technical drawing

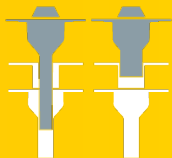


Backflow safe for refurbishing internal diameters from - to (mm)	a (mm)	b (mm)	c (mm)	Article number
115 - 130	255	45	260	10 35 xx

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2

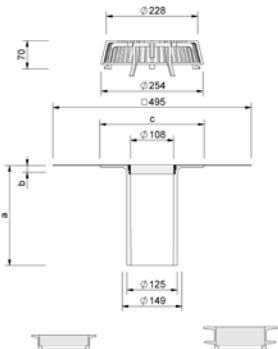
DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
115	0.5	1.2	1.9	2.8	3.6	4.7	5.7	7.1	8.5	10.1	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6



Tender text

SitaSani® 125 refurbishment outlet, made of polyurethane, height 250 mm or 550 mm, thermally insulated, to DIN EN 1253-2, discharge rate 8.8 l/s at 45 mm retaining height, for refurbishment of internal diameters of 134 mm - 168 mm, with large foamed-in connection sleeve of choice (495 mm x 495 mm) for homogeneous connection of the roofing membrane, with fixing ring for addition securing of the connection sleeve and to hold the dome grate. Complete including dome grate, lubricant and two differently sized sealing rings for backflow protection, supply and install to professional standards.

Technical drawing

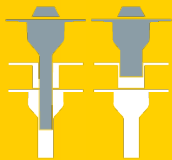


Backflow safe for refurbishing internal diameters from - to (mm) with lip sealing ring	Backflow safe for refurbishing internal diameters from - to (mm) with profiled sealing ring	a (mm)	b (mm)	c (mm)	Article number
134 - 144	140 - 168	250	17	260	10 27 xx
		550			10 37 xx

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253-2

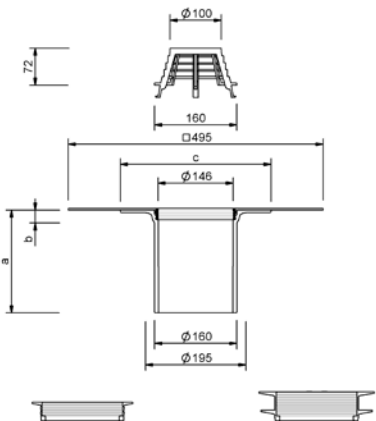
DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
125	0,6	1,2	1,7	2,9	4,1	5,1	6,0	7,4	8,8	10,0	11,2	11,2	11,2	11,2	11,2	11,2	11,2	11,2	11,2	11,2



Tender text

SitaSani® 165 refurbishment outlet, made of polyurethane, height 200 mm or 550 mm, thermally insulated, to DIN EN 1253-2, discharge rate 8.2 l/s at 45 mm retaining height, for refurbishment of internal diameters of 165 mm – 205 mm, with large foamed-in connection sleeve of choice (495 mm x 495 mm) for homogeneous connection of the roofing membrane, with fixing ring for addition securing of the connection sleeve and to hold the dome grate. Complete including dome grate, lubricant and two differently sized sealing rings for backflow protection, supply and install to professional standards.

Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm) with lip sealing ring	Backflow safe for refurbishing internal diameters from - to (mm) with profiled sealing ring	a (mm)	b (mm)	c (mm)	Article number
165 - 178	178 - 205	200	25	293	10 29 xx
		550	60	320	10 40 xx

xx = Article end numbers for connection sleeve of choice

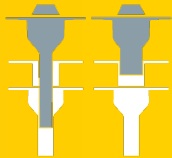
Discharge rate according to DIN EN 1253-2

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
165	0.8	1.5	2.2	3.4	4.5	5.5	6.4	7.3	8.2	9.0	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7

SitaSani®

165

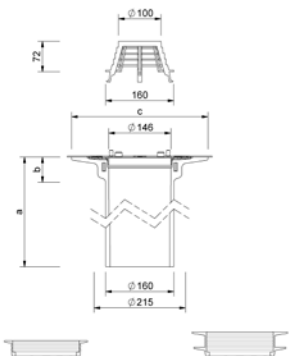
Screw-on flange



Tender text

SitaSani® 165 screw-on flange refurbishment outlet, made of polyurethane, height 550 mm, thermally insulated, to DIN EN 1253-2, discharge rate 8.2 l/s at 45 mm retaining height, for refurbishment of internal diameters of 165 mm – 205 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. Including dome grate, lubricant and two differently sized multi-lip sealing rings for backflow protection, supply and install to professional standards.

Technical drawing



Backflow safe for refurbishing internal diameters from - to (mm) with lip sealing ring	Backflow safe for refurbishing internal diameters from - to (mm) with profiled sealing ring	a (mm)	b (mm)	c (mm)	Article number
165 - 178	178 - 205	550	60	320	10 40 99

Discharge rate according to DIN EN 1253-2

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
165	0.8	1.5	2.2	3.4	4.5	5.5	6.4	7.3	8.2	9.0	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7

SitaMore

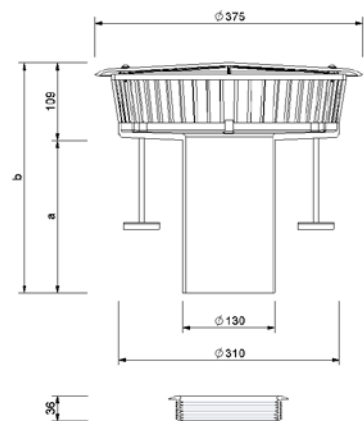
Retaining element for SitaTrendy/SitaSani



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	114	223	15 90 01
	85 - 150	214	323	15 90 07
	135 - 200			15 90 08

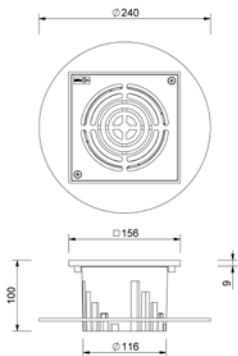
SitaMore terrace kit



Tender text

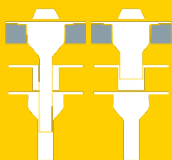
SitaMore terrace kit, made of aluminium, for roof outlets and extension units with connection sleeve of choice of the SitaStandard, SitaTrendy, SitaIndra, SitaSani® 63, SitaSani® 90, SitaSani® 105 and SitaSani® 165 series. Consisting of height adjustment ring, housing (height-adjustable from 34 mm - 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

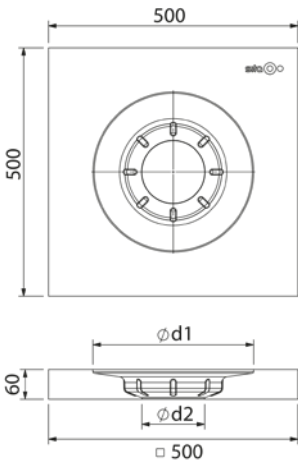
SitaSani® insulating body SitaSani® 63



Tender text

SitaSani® 63 or SitaSani® 90/105 insulating body, made of polyurethane, for easy bonding to the vapour barrier, without mechanical fastening of the refurbishment outlet by bonding to the insulating body, size 500 mm x 500 mm 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.

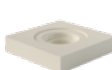
Technical drawing

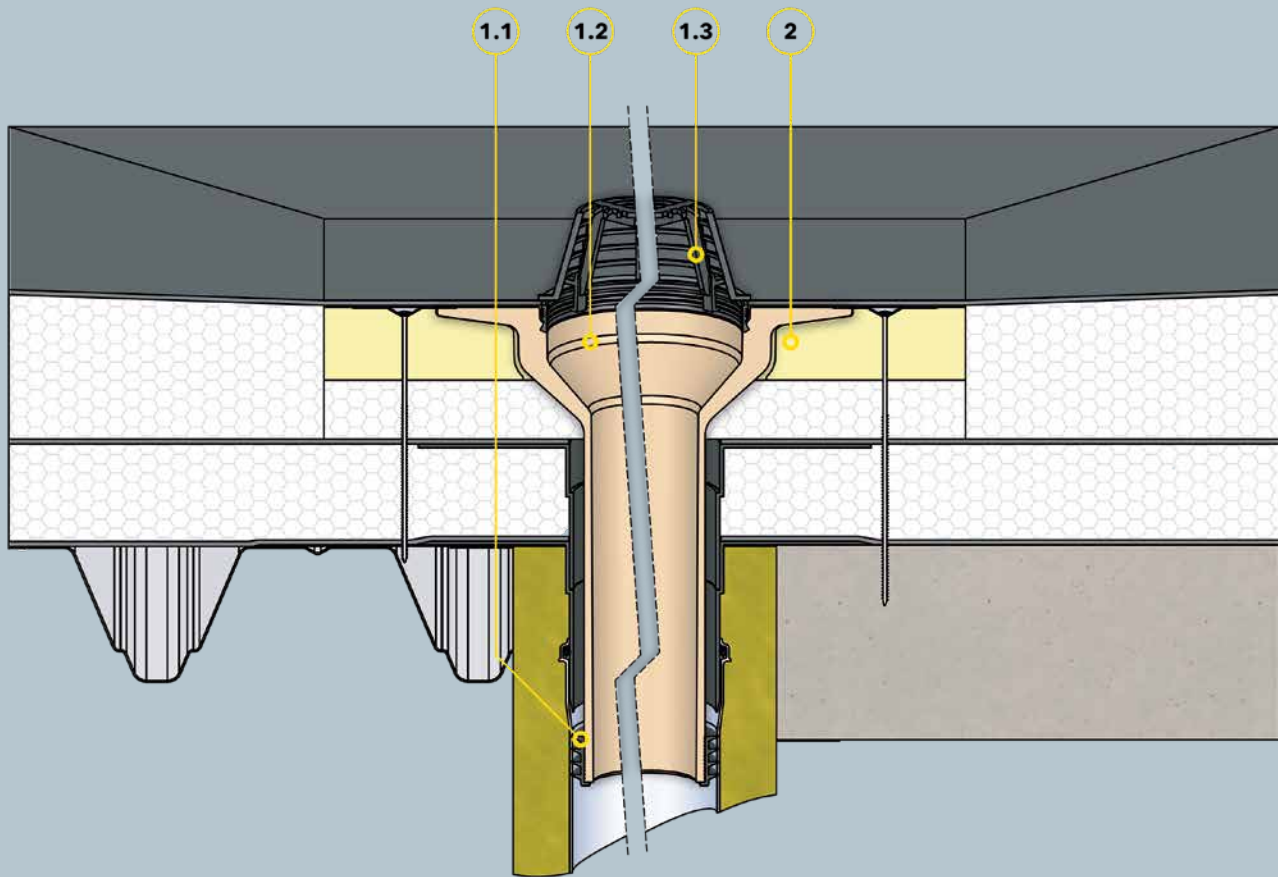


Compatibility	d1 (mm)	d2 (mm)	Article number
SitaSani® 63	322	126	10 93 63
SitaSani® 90, SitaSani® 105		184	10 93 90

Possible combinations

SitaSani®

Accessories		Product series								
										
SitaMore terrace kit										
SitaCompact balcony outlet gratings										
SitaTrendy extension unit										
SitaCompact extension unit										
SitaSani® 95										
SitaSani® insulating body										



Components

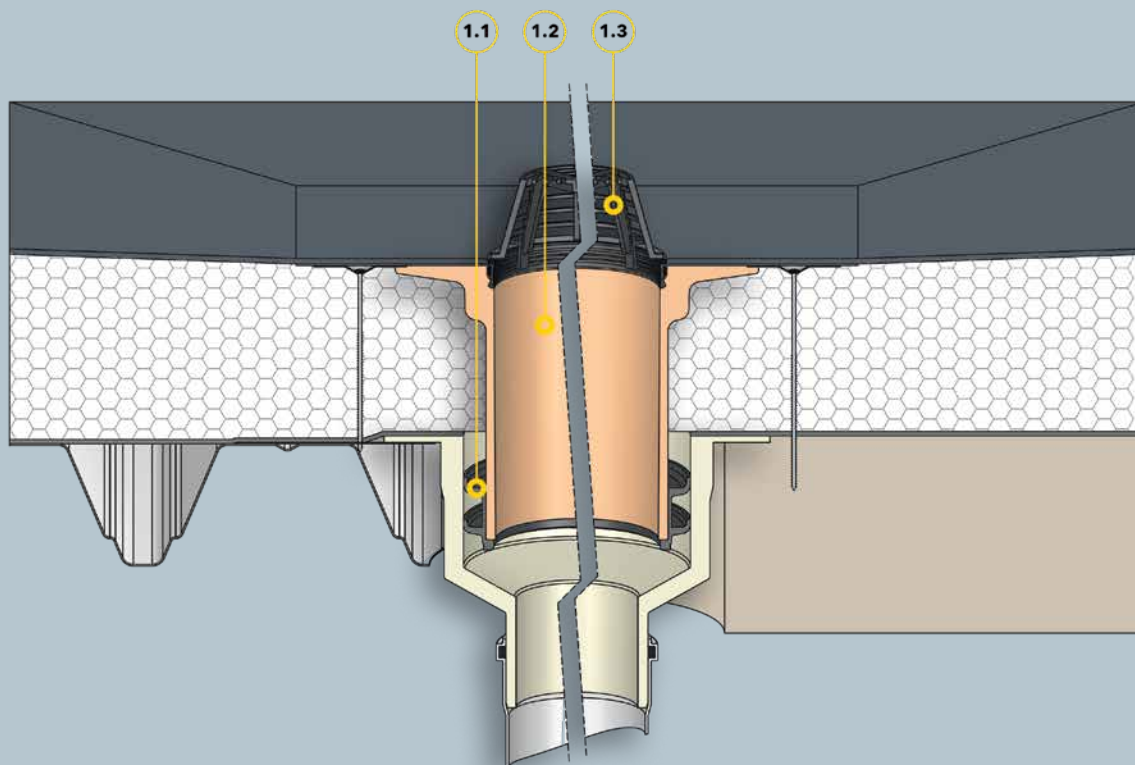
SitaSani® 63/90/105 consisting of:

- 1.1** Sealing ring
- 1.2** Base body
- 1.3** Dome grate
- 2** SitaSani® 63/90/105 insulating body

Roof structure

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

- + New sealing
- + New thermal insulation
- + Existing sealing
- + Existing thermal insulation
- + Vapour barrier
- + Substructure



Components

SitaSani® consisting of:

- 1.1** Profiled sealing ring
- 1.2** Base body
- 1.3** Dome grate

Roof structure

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

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

SitaSani® DSS

Works well in refurbishments – under pressure.



SitaSani®
DSS

- + For existing siphonic drainage outlets with a pot diameter of 160 mm
- + With Airstop for siphonic drainage
- + With connection sleeve of choice or screw-on flange construction
- + Installed and sealed in no time



SitaSani® DSS



SitaSani® DSS
screw-on flange



SitaDSS Profi
retaining element

SitaSani® DSS

Product features at a glance:

Product features

Applications	For main and emergency drainage and for refurbishment of old siphonic drainage rainwater outlets in flat and slightly pitched, used and unused roof surfaces
Material	Polyurethane
Design	Vertical
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 + Thermally insulated + Backflow safe up to a water column of 2 m
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

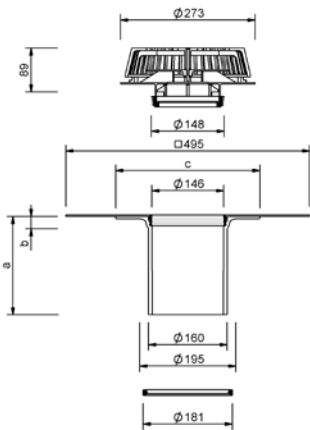




Tender text

SitaSani® 160 DSS refurbishment outlet, made of polyurethane, thermally insulated, for refurbishment of siphonic drainage roof outlets with a pot diameter of 160 mm, component length 200 mm or 550 mm, with foamed-in connection sleeve of choice for homogeneous connection of the roofing membrane, with fixing ring for additional securing of the connection sleeve and to hold the dome grate, including Airstop and sealing ring, supply and install to professional standards. You are responsible for checking the function of the existing seals.

Technical drawing



a (mm)	b (mm)	c (mm)	Article number
200	25	290	10 60 xx
550	60	320	10 61 xx

xx = Article end numbers for connection sleeve of choice

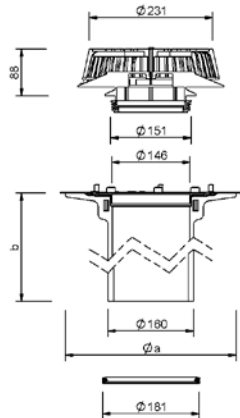
SitaSani® DSS screw-on flange



Tender text

SitaSani® 160 DSS screw-on flange refurbishment outlet, made of polyurethane, thermally insulated, for refurbishing siphonic drainage outlets with a pot diameter of 160 mm, component length 550 mm with pre-drilled holes for fastening 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, including Airstop and sealing ring, supply and install to professional standards. You are responsible for checking the function of the existing seals.

Technical drawing

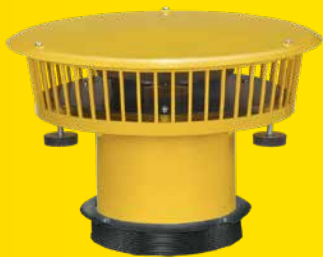


SitaSani®
DSS

a (mm)	b (mm)	Article number
320	550	10 61 99

SitaDSS Profi

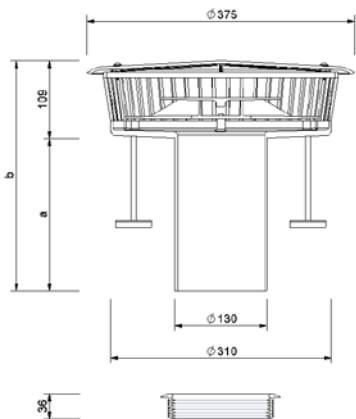
retaining element



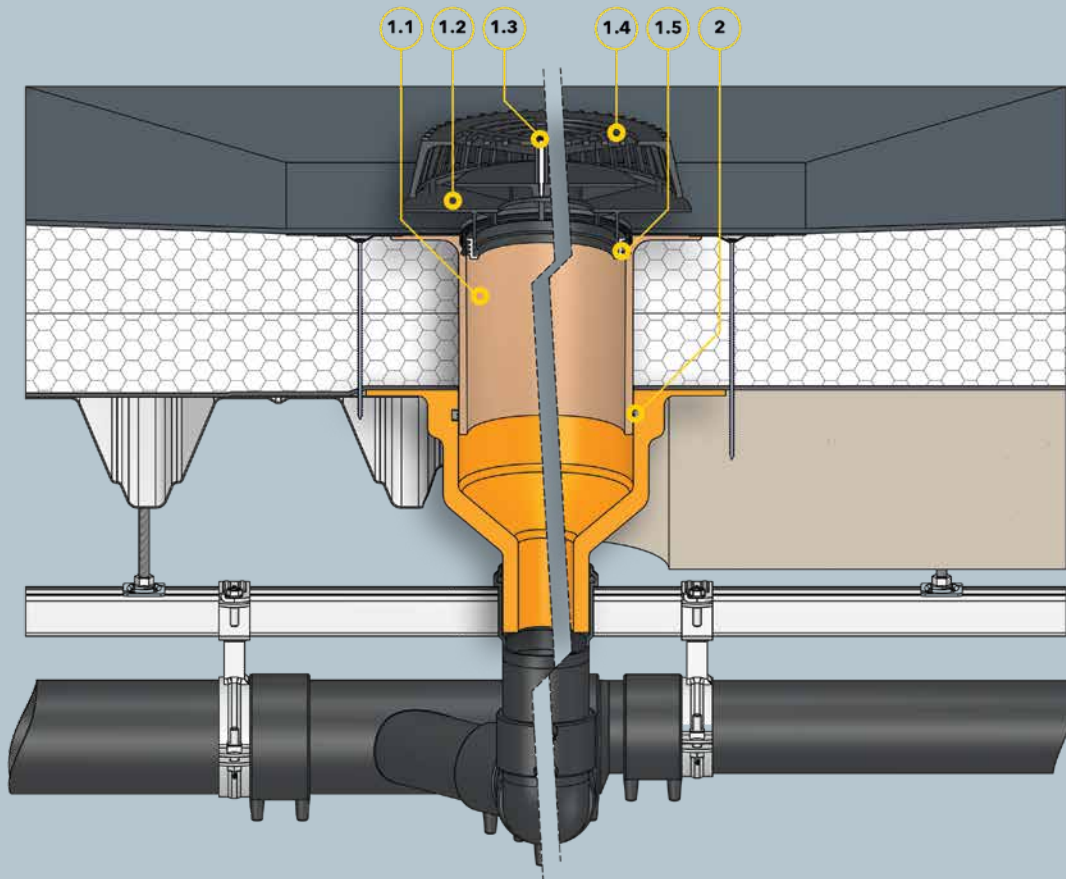
Tender text

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 mm - 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



Components

SitaSani® 160 DSS consisting of:

- 1.1** Base body
- 1.2** Airstop
- 1.3** Installation screw
- 1.4** Dome grate
- 1.5** Fastening ring for Airstop
- 2** SitaSani® 160 DSS sealing ring

Roof structure

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

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

SitaVent refurbishment vent

Maximum safety. With multi-lip seal.



- + For room and section ventilation
- + With foamed-in connection sleeve of choice
- + Connection to all function layers
- + For pipe diameters of 68 mm to 205 mm



SitaMore
reinforcement plate



SitaVent
base plate



SitaVent
base plate insulating body



SitaVent
rain cover



SitaVent
protective grating



SitaVent
condensation deflector



SitaVent
vapour barrier cap



SitaVent
pipe bend

SitaVent refurbishment vent

Product features at a glance:

Product features

Applications	For section and room ventilation and for refurbishment of flat and slightly pitched, used and unused roof surfaces
Material	Base plate: Polyurethane, vent pipe: Polyethylene, rain deflector: Polyamide
Temperature resistance, min.	-20 °C
Temperature resistance, max.	80 °C
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable + Backflow safe up to a water column of 2 m
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.

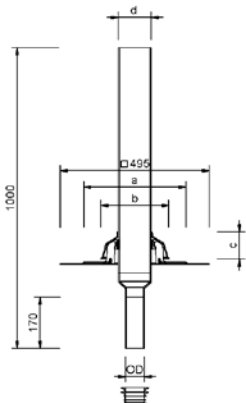
SitaVent refurbishment vent



Tender text

SitaVent refurbishment vent, made of polyurethane, thermally insulated, for the refurbishment of vent pipes with an internal diameter of 68 mm - 205 mm, with foamed-in connection sleeve of choice for a homogeneous connection to the roofing membrane. Complete, including 1000 mm PE pipe, lubricant, and seal for backflow protection, supply and install to professional standards.

Technical drawing

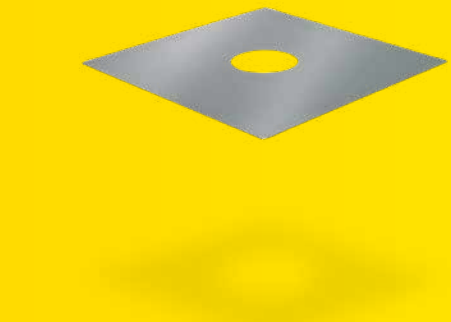


DN	OD*	Opening/Core borehole (mm)	a (mm)	b (mm)	c (mm)	d (mm)	Article number
63	63	170	340	227	90	110	17 30 xx
75	75						17 31 xx
90	90						17 32 xx
110	110						17 33 xx
125	125	220	376	278	93	160	17 34 xx
160	160						17 35 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

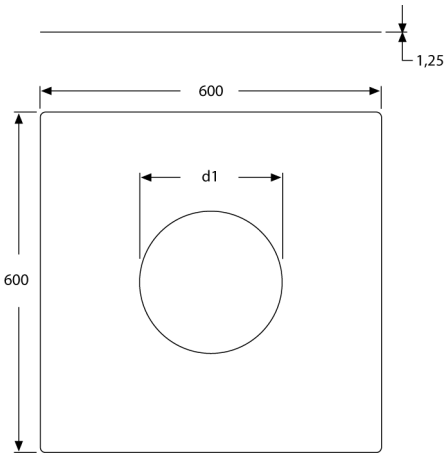
SitaMore reinforcement plate



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

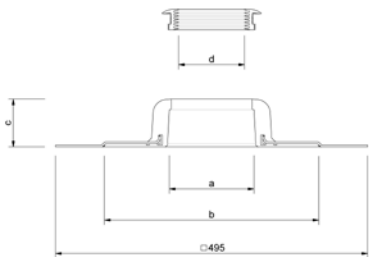
SitaVent base plate



Tender text

SitaVent base plate, made of polyurethane, in sizes DN 100 or DN 150, with foamed-in connection sleeve of choice (495 mm x 495 mm) to suit the roofing membrane. Complete including seven-lip sealing ring and lubrication, supply and install to professional standards.

Technical drawing



DN	a (mm)	b (mm)	c (mm)	d (mm)	Article number
100	134	340	76	105	17 54 xx
150	190	376	80	155	17 58 xx

xx = Article end numbers for connection sleeve of choice

SitaVent

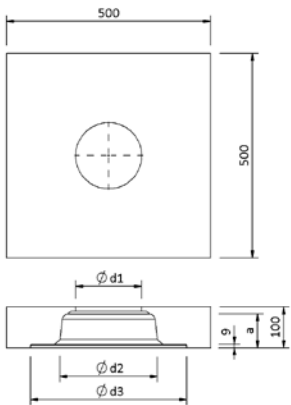
base plate insulating body



Tender text

SitaVent base plate insulating body, made of polyurethane with aluminium cover layers, in size 500 mm x 500 mm x 100 mm, thermal conductivity $\lambda = 0.023 \text{ W/mK}$, compressive strength 120 kPa, to aid installation and for thermal insulation to prevent thermal bridges, supply and install to professional standards.

Technical drawing



DN	a (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Article number
100	76	112	214	349	17 54 98
150	83	162	239	382	17 58 98

SitaVent

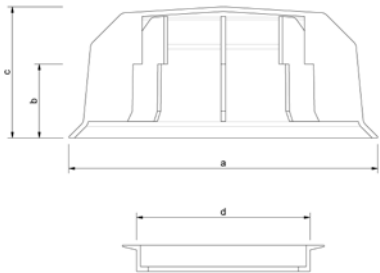
rain cover



Tender text

SitaVent rain cover, made of polyamide, for the SitaVent system vent and SitaVent refurbishment vent in sizes DN 100 or DN 150. Prevents the ingress of rain and snow. Including EPDM fastening ring, supply and install to professional standards.

Technical drawing



DN	a (mm)	b (mm)	c (mm)	Article number
100	196	47	83	17 90 62
150	267	59	110	17 90 66

SitaVent
refurbishment vent

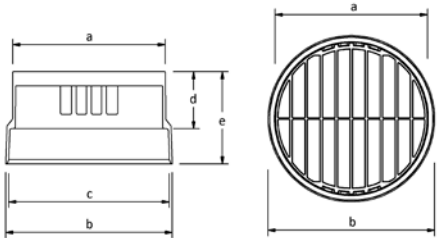
SitaVent protective grating



Tender text

SitaVent protective grating, made of polyamide, for the SitaVent system vent and SitaVent refurbishment vent in sizes DN 100 or DN 150, prevents the ingress of foreign bodies, including EPDM fastening ring, supply and install to professional standards.

Technical drawing



DN	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	Article number
100	110	123	117	59	99	17 90 64
150	160	175	169	60	97	17 90 68

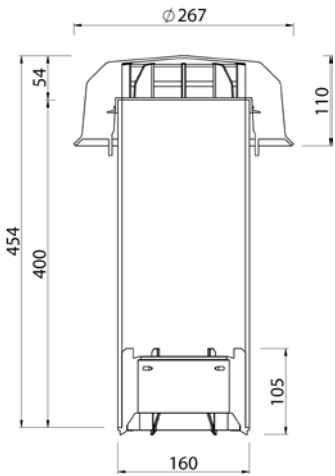
SitaVent condensation deflector



Tender text

SitaVent condensation deflector for SitaVent system vent DN 70, DN 90, DN 100 and SitaVent refurbishment vent DN 63, DN 75, DN 90, DN 110, to divert condensation water from ventilation lines onto the roofing membrane level, consisting of an adapter for condensation deflector pipe, a condensation deflector pipe, a rain cover and 6 installation screws, supply and install to professional standards.

Technical drawing



Article number
17 12 00

SitaVent
refurbishment vent

SitaVent

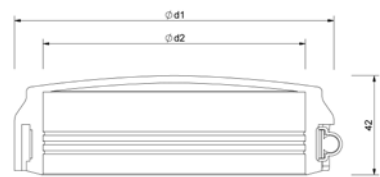
vapour barrier cap



Tender text

SitaVent vapour barrier cap DN 100 or DN 150 made of EPDM with screw fixing, for the vapour-tight and waterproof closure of the SitaVent pipe fairlead, the cavity of the required lead-through elements to be punched out on site acc. to installation instructions, supply and install to professional standards.

Technical drawing



DN	d1 (mm)	d2 (mm)	Article number
100	135	111	17 10 00
150	185	161	17 11 00

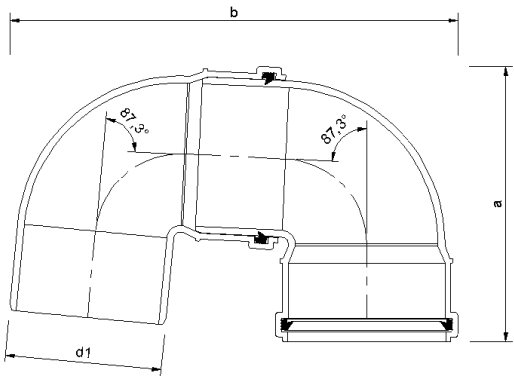
SitaVent pipe bend



Tender text

SitaVent 2 x 87.3° pipe bend, made of polypropylene, in size DN 100 and DN 150, for the conduction of various media, supply and install to professional standards.

Technical drawing

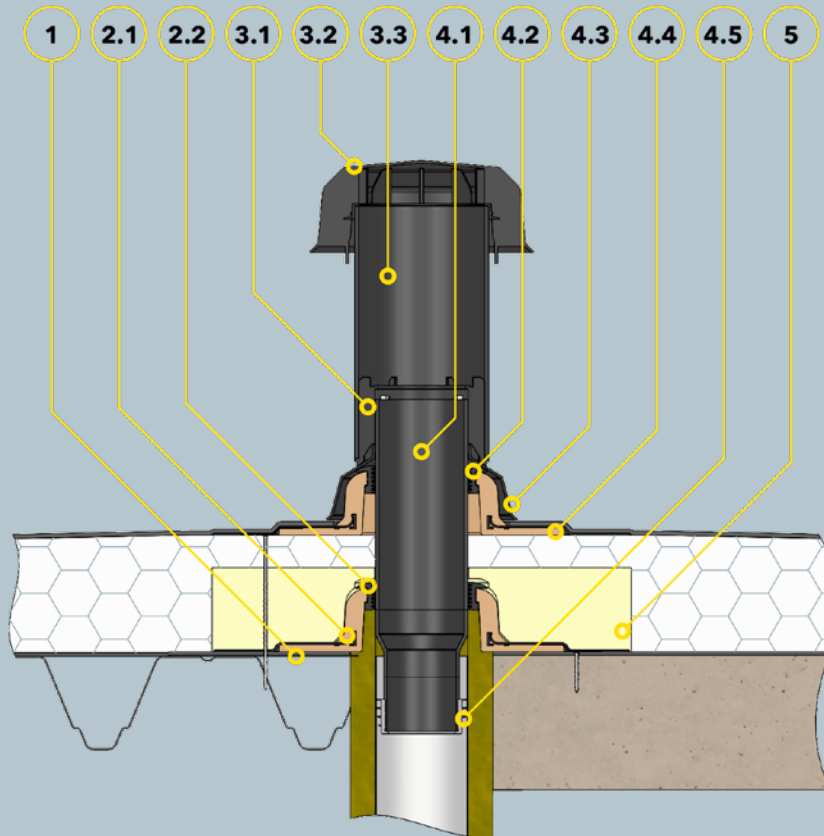


DN	OD*	a (mm)	b (mm)	d1 (mm)	Article number
100	110	194	315	110	17 90 00 11
150	160	260	427	160	17 90 00 16

* OD = Outer diameter (mm)

SitaVent refurbishment vent

SitaVent refurbishment vent with SitaVent condensation deflector in a non-ventilated roof structure



SitaVent
refurbishment vent

Components

1 SitaMore reinforcement plate

SitaVent base plate consisting of:

- 2.1** Base plate
- 2.2** Sealing ring

SitaVent condensation deflector consisting of:

- 3.1** Adapter for condensation deflector pipe
- 3.2** Rain cover
- 3.3** Condensation deflector pipe

SitaVent refurbishment vent consisting of:

- 4.1** Connection pipe

4.2 Sealing ring

4.3 Rain deflector

4.4 Base plate

4.5 Seal

5 SitaVent base plate insulating body

Roof structure

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

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

SitaSani® Disc

The problem solver for flat situations.



SitaSani®
Disc

- + Backflow-proof up to a water column of 2 metres
- + For the renovation of angled roof outlets
- + With optional connection sleeve in two levels
- + Can be installed and sealed very quickly



SitaSani® Disc



SitaSani® Disc
extension unit

SitaSani® Disc

Product features at a glance:

Product features

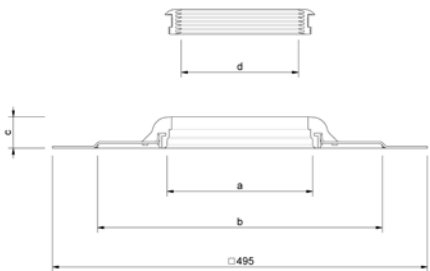
Applications	For main and emergency drainage and for the renovation of old, angled roof outlets in flat and gently sloping, utilised and unutilised roof areas
Material	Polyurethane
Temperature resistance, min.	-40 °C
Temperature resistance, max.	80 °C
Material class	Euroclass E / B2 normal flammability
Properties	+ Thermally insulated + Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable + Backflow safe up to a water column of 2 m
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

SitaSani® Disc, made of polyurethane, for the renovation of angled outlets, in combination with the SitaSani® Disc extension unit. With large integrated connection sleeve (495 mm x 495 mm) for homogeneous connection of the roof waterproofing, with multi-lip sealing ring for backflow protection, supply and install to professional standards.

Technical drawing



DN	a (mm)	b (mm)	c (mm)	d (mm)	Backflow safe for refurbishing internal diameters from - to (mm) with lip sealing ring	Article number
110	141	340	42	105	112 - 170	10 70 xx
160	193	376		155	162 - 210	10 71 xx

xx = Article end numbers for connection sleeve of choice

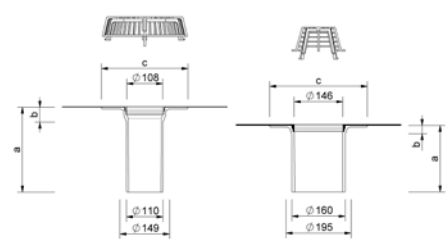
SitaSani® Disc extension unit



Tender text

SitaSani® Disc extension unit, made of polyurethane, for bridging the thermal insulation. With large integrated connection sleeve (495 mm x 495 mm) for homogeneous connection to the roof waterproofing, with fixing ring for additional securing of the connection sleeve and for holding the dome grate. Supply complete, including dome grate, and install to professional standards.

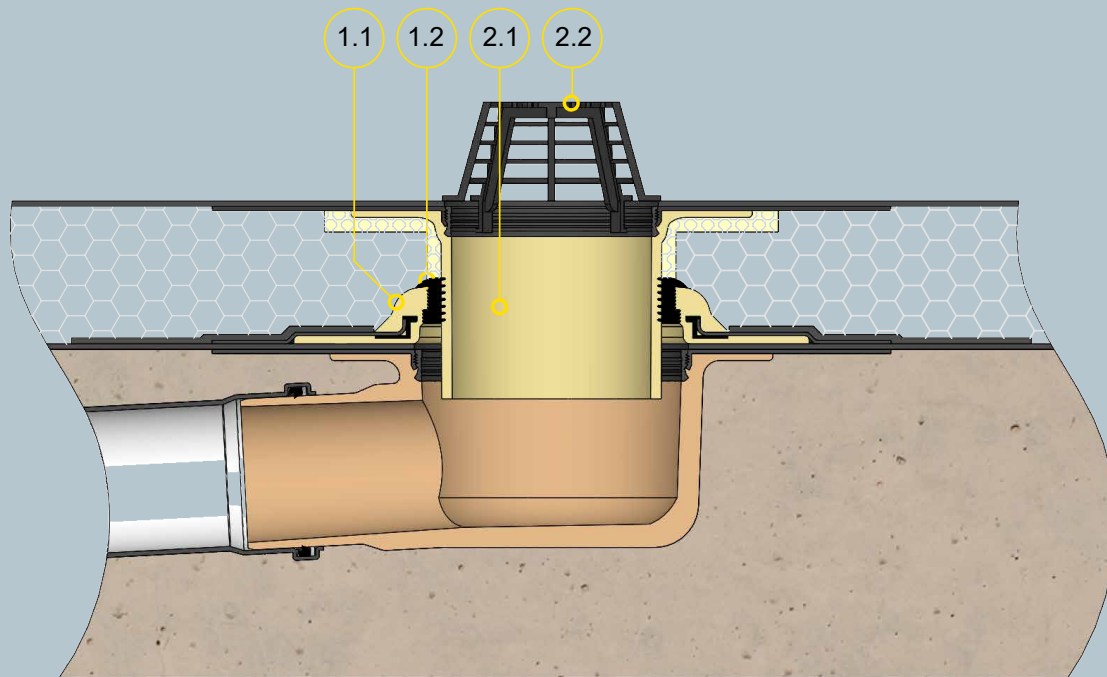
Technical drawing



DN	OD*	a (mm)	b (mm)	c (mm)	Bridging of thermal insulation min. (mm)	Bridging of thermal insulation max. (mm)	Article number
110	110	255	45	260	90	230	10 64 xx
160	160	200	25	293	70	210	10 65 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice



Components

SitaSani® Disc consisting of:

- 1.1** Base body with connection sleeve of choice
- 1.2** Sealing ring
- 1.3** Dome grate

SitaSani® Disc extension unit consisting of:

- 2.1** Base body with connection sleeve of choice
- 2.2** Dome grate

Roof structure

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

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

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.

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

Connection sleeves for outlets with article end numbers.

For SitaStandard, SitaTrendy, SitaDSS Profi, SitaIndra, SitaDSS Indra, SitaVasant^{*5}, SitaEasy, SitaEasy Plus, SitaCompact, SitaCompact Near^{*4}, SitaCarport, SitaMini^{*3}, 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 GmbH
VAEPLAN F	35	EVA - grey	
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

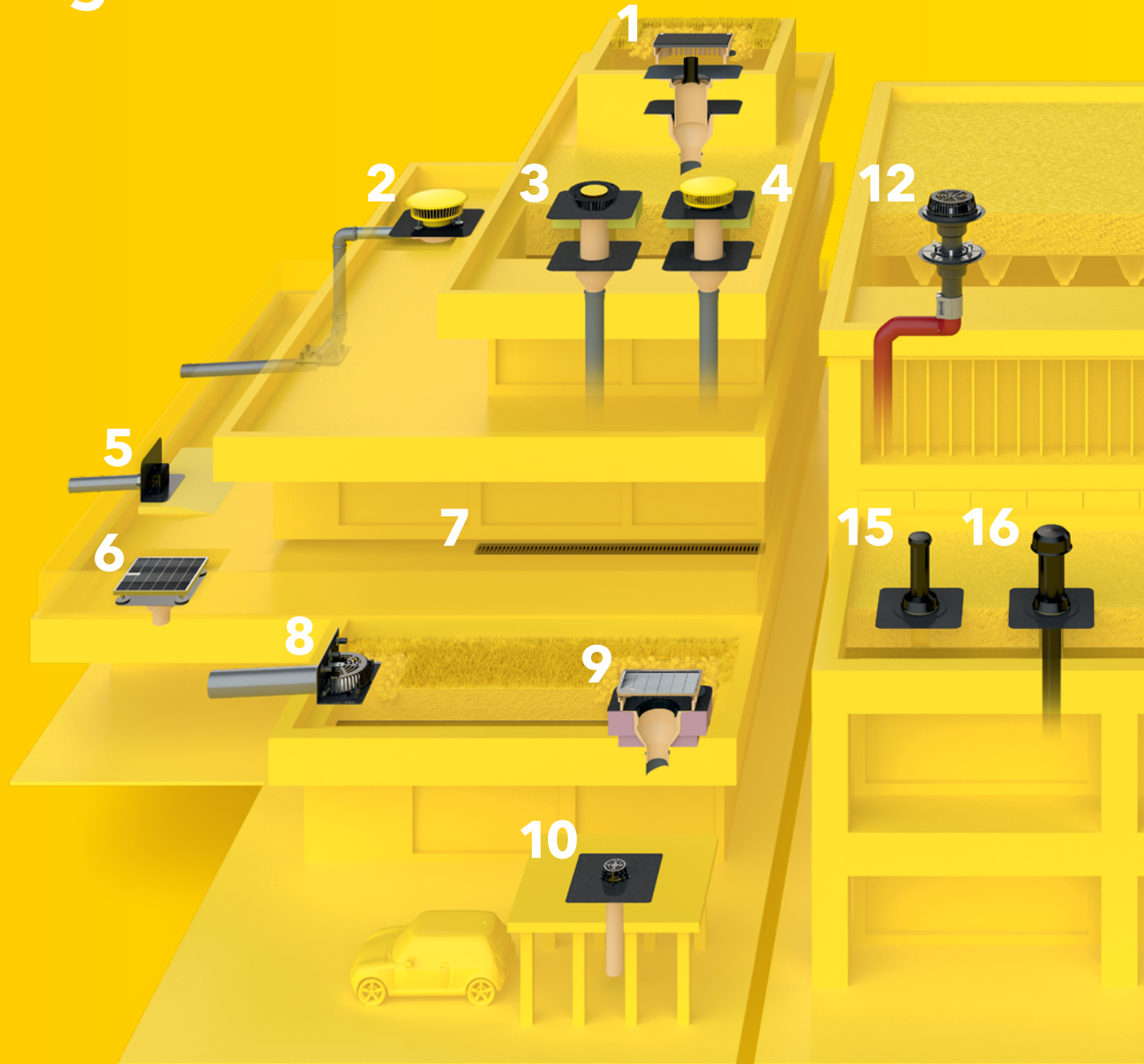
Surcharge see current price list

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

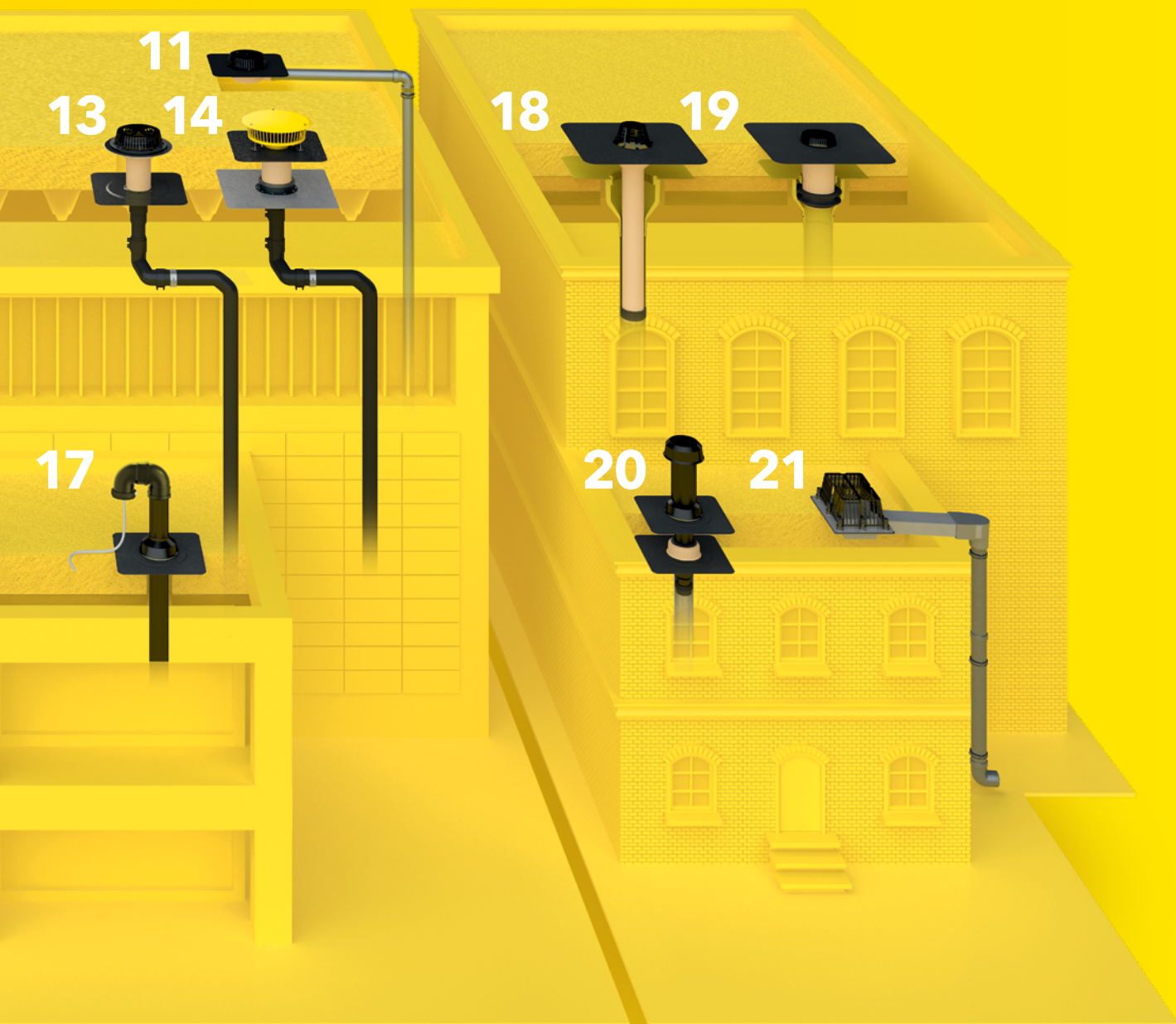
*1 Fleece-backed membrane, *2 Bitumen side on top, *3 except 03 and 84, *4 except 00 and 90, *5 except 90.

Further connection sleeves upon request.

Superbly served - with the Sita product range.



- | | |
|--|--|
| <p>1 SitaRetention green roof shaft with SitaRetention Fix</p> <p>2 SitaKaskade Inside with SitaDSS Indra emergency drainage set and SitaPipe stainless steel pipe system</p> <p>3 SitaStandard with SitaStandard extension unit and insulating body in use for the extension unit</p> <p>4 SitaStandard with SitaStandard extension unit and SitaMore retaining element</p> | <p>5 SitaEasy</p> <p>6 SitaDrain® Terra with SitaCompact</p> <p>7 SitaDrain® box drain with footbridge</p> <p>8 SitaRondo</p> <p>9 SitaGreen roof shaft with SitaTrendy and SitaTrendy insulating body</p> <p>10 SitaCarport</p> |
|--|--|



- 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

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- + 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.

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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

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