



MODERN ARCHITECTURE NEEDS POWERFUL TECHNOLOGY

Gravity roof drainage

The conventional drainage for flat roofs



Over 30 years of expertise:

Welcome to Sita.

For decades the name Sita has stood for expertise in the field of drainage and emergency drainage for flat roofs. Each product contains the experience of the several million drains that have been produced. We systematically pursue one goal: quality in all areas. In the production of drainage and ventilation systems Sita is one of the leaders in Germany. We know how important good product quality is for an excellent final result. That is why we do everything we can with our products and systems to provide you with a perfect starting point for your work. With Sita you can be absolutely sure that you are building on quality.

We provide answers!

Sita is a problem solver. Together with the specialist trade, architects, planners and users we establish the ideal solution in each case - at the service and product level.

On the one hand we are pleased to pass on our specialist knowledge, while on the other hand we benefit from all the practical suggestions. The requirements of architects, planners, users and specialist dealers take shape in the form of problem-solving products and systems.



GOOD REASONS FOR SITA

- 1 Specialist:** We are flat roof drainage
- 2 Expert:** Competent and innovative since 1976
- 3 Partner:** From colleague to colleague
- 4 Quality:** Tested and certified
- 5 Service:** Fast, reliable, on time

Contents

Page 2

Basics

Overview	Page 4
The Sita solution - gravity drainage	Page 7
Calculation service and advice	Page 8
Gravity drainage matrix / regulations	Page 9

Page 10

Sita**Standard**

Overview	Page 10
Examples of installation	Page 11
Products	Page 15

Page 20

Sita**Trendy**

Overview	Page 20
Examples of installation	Page 21
Products	Page 23

Page 34

Sita**Multi**

Overview	Page 34
Examples of installation	Page 35
Products	Page 37

Page 47

Connection sleeves

Page 49

Contact persons

Sita**Standard**

Sita**Trendy**

Sita**Multi**

Systematic drainage and ventilation:

The optimum solution for all roofing situations.

Gravity drainage

- A** SitaStandard with SitaStandard extension unit

Siphonic drainage

- B1** SitaDSS Profi illustration shows the version with SitaFiresafe®) with SitaDSS Profi extension unit and SitaRetaining element for emergency drainage, PE pipes and pipe fittings

- B2** SitaDSS Profi with SitaDSS Profi extension unit and SitaDSS adapter set to SML pipes and pipe fittings

- B3** SitaDSS Multi with SitaDSS Multi extension unit and SML pipes and pipe fittings

Emergency drainage

- C1** SitaTurbo
- C2** SitaAttika pipe system
- C3** SitaRondo
- C4** SitaSpy

Balcony and terrace drainage

- D1** SitaCompact with SitaCompact extension unit and balcony attachment
- D2** SitaDrain® box gutter (with step grid)
- D3** SitaDrain® Terra
- D4** Sita green roof shaft

Renovation

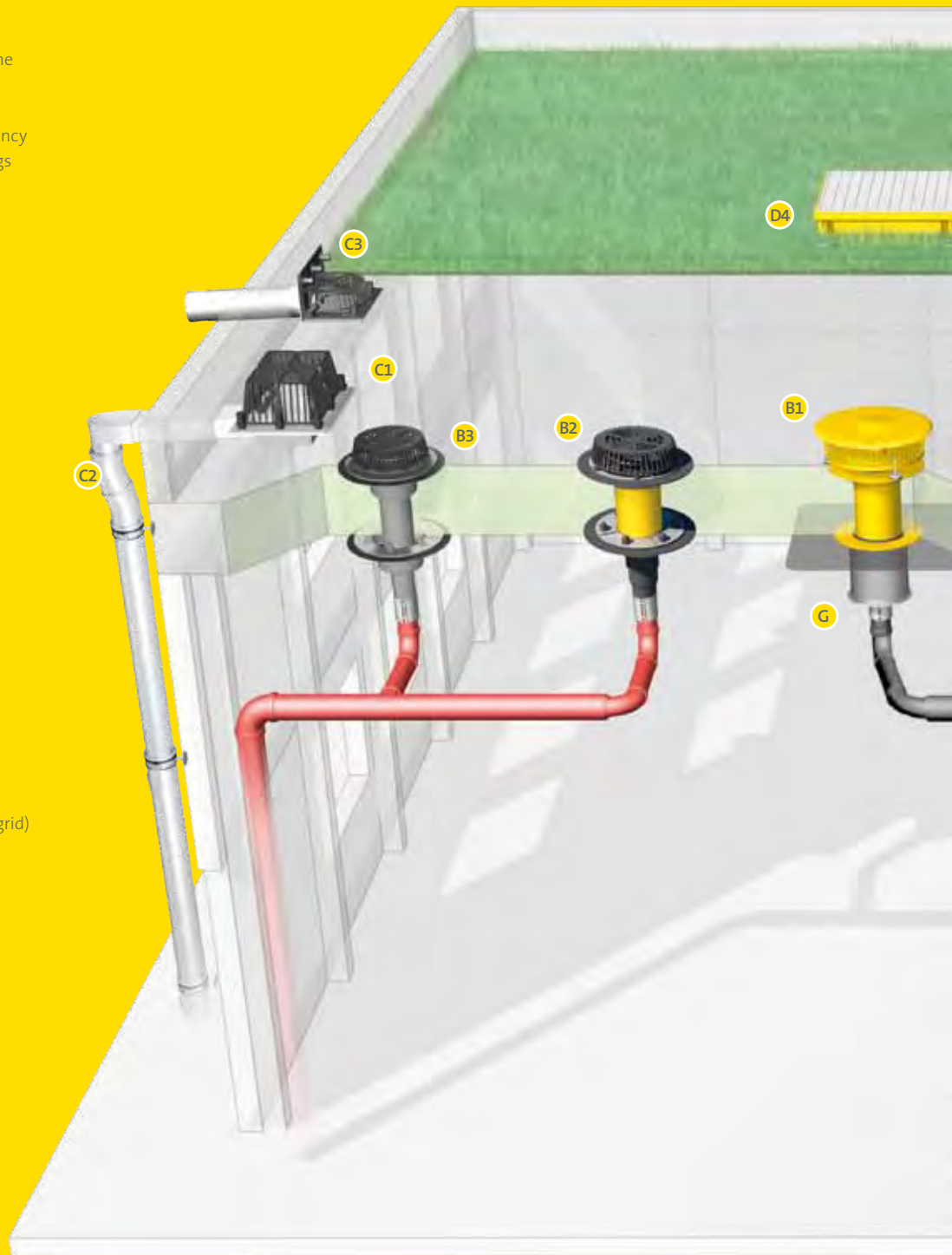
- E** SitaSani® Special

Ventilation

- F1** SitaVent pipe system
- F2** SitaVent pipe system with pipe fairlead

Fire protection

- G** SitaFiresafe® with SitaDSS Profi



Gravity or siphonic drainage, emergency drainage through the parapet or extension units, effective ventilation for flat roofs or reliable drainage? Sita can offer you safe and standard product and system solutions whatever the task.



Reliability in every case!

Even during heavy rain.



Water is the natural enemy of the roof. In the case of flat roofs in particular, load limits can be quickly reached. For every flat roof, reliable roof drainage is essential. The increase in weather events associated with severe to extreme rainfall must now be regarded as a fact. If a large amount of rain falls within a short time, it must also be possible to drain that amount of water off the roof within a short time.

Sita offers you the perfect drainage solution for every roof surface.



GOOD REASONS FOR THE GRAVITY ROOF DRAINAGE OF SITA

- 1 Assortment:** The right solution for every flat roof
- 2 Advice:** Personally & by telephone - always available
- 3 Assembly:** Quick and easy installation - perfect fit
- 4 Reliability:** Quality & calculation service
- 5 Dealers:** Available from the local specialist trade outlets

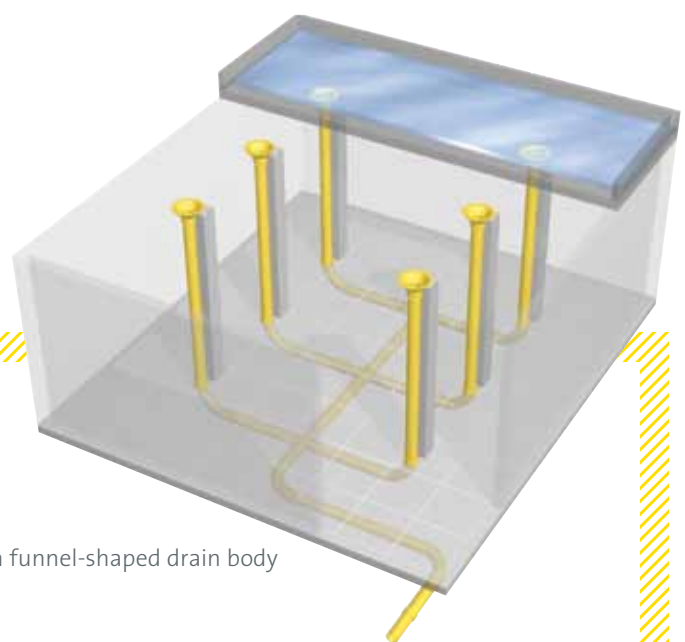
Sita's Solution:

Gravity roof drainage

Gravity drainage is the traditional method for the internal drainage of flat roofs and is regulated by DIN EN 12056 Part 3 and DIN 1986 Part 100.

In the gravity drainage system, the flat roof is drained via roof outlets and a pipe system laid at an incline. The pipes are partially filled with water for operation. The maximum filling level in the collection and underground pipes of $h/d = 0.7$ and in the downpipes of $f = 0.33$ may not be exceeded. The gravity drainage system is characterised by the fact that gravity is used to remove rainwater.

Here, a pipe bottom slope is used to transport the water. The drainage capacity of a gravity drainage system is significantly determined by this pipe bottom slope and the construction of the roof outlets. The inlet funnel of the drain causes an increase in drainage capacity.



Characteristics of gravity drainage:

- Pipeline system, at an incline
- System, partially filled
- Underground pipe network
- High drainage capacity of the roof outlets through a funnel-shaped drain body
- Designed for low point drainage
- Arrangement of an emergency drainage system

Do you want to be absolutely sure?

Then let Sita help you with your calculations.
You save precious time.

Calculation service

Since 2002 there has been no room for manoeuvre for the calculation of flat roof drainage in Germany. According to the current DIN 1986-100 there are two mandatory requirements. Firstly, the entire rain system must be calculated relative to the location. Secondly, separate emergency drainage is mandatory. Take advantage of our expertise and our PC-based program for the calculation of your flat roof drainage! Because it is better to be safe than sorry! Visit our website:

www.sita-bauelemente.de

Here you will find our calculation form:

www.sita-bauelemente.de/service/planung-berechnung.html

Calculation example for a gravity drainage system

The size of our example roof area (light construction, location: Dortmund) is: 30 m x 50 m = 1,500 m²

The following were determined as starting values for the calculation:

reference rainfall rate* r(5,5) according to DIN 1986-100	r(5,5) = 302 l / (s x ha)
hundred-yearly rainfall* r (5,100) according to DIN 1986-100	r(5,100)= 526 l/(s x ha)
Run-off coefficient according to DIN 1986-100	C = 1.0
Maximum flood level (specified by structural engineer)	hmax = 75 mm
Damming height for main drainage (specified by the planner)	h1 = 35 mm
Damming height for emergency drainage	h2 = 40 mm

* Reference rainfall rates according to Kostra DWD 2000

Flow rate through the main drainage system

$$Q = r(5,5) \times C \times A$$
$$Q = 302 \text{ l/(s x ha)} \times 1.0 \times 1,500 \text{ m}^2 / 10000$$
$$Q = 45.3 \text{ l/s}$$

The main drainage system must drain **45.3 l/s**.

Flow rate through the emergency drainage system

$$Q_{\text{not}} = [r(5,100) - r(5,5) \times C] \times A$$
$$Q_{\text{not}} = (526 - 302 \times 1.0) \times 1500 / 10000$$
$$Q_{\text{not}} = 33.6 \text{ l/s}$$

The emergency drainage system must drain at least **33.6 l/s**.

Advice + Information

Whether on site or over the phone, the experts at Sita provide you with professional and reliable advice at any time. Do you have any questions about products, installation conditions, regulations or other topics related to the drainage and ventilation of flat roofs? If so, give us a call.



Phone:

Sita direct: +49 2522-8340-160 +49 2522-8340-260



Fax:



E-Mail:

technik@sit-bauelemente.de





Web:

www.sita-bauelemente.de

Gravity roof drainage

The conventional drainage for flat roofs

Decision matrix: the right product for every installation situation

	Foamed desired connection sleeve	Loose/fixed flange construction	Internal drainage	Drainage through the parapet*	Non-combustible	Nominal diameter up to DN 200
SitaStandard 	✓		✓			✓
SitaTrendy 	✓		✓			
SitaTrendy screw-on-flange 		✓	✓			
SitaMulti 		✓	✓		✓	
SitaTurbo* 		✓		✓	✓	

* Other solutions for drainage through the parapet can be found in the parapet drainage brochure.

Statutory regulations and standards

In the planning and design of flat roof drainage systems the following standards and regulations are to be taken into account, amongst others:

DIN EN 12056

Gravity drainage systems inside buildings

DIN EN 752

Drainage systems outside buildings

DIN 1986

Drainage systems for buildings and land

DIN 18531

Roof waterproofing

DIN 18195

Waterproofing of buildings

DIN 18234

Structural fire safety of large roofs

LAR Directive

Pipework guideline on fire-protection requirements for pipe systems

ZVSHK Sanitary Engineering Manual

Pipeline construction

DDH Regulations

Trade rules for roofs with seals

FLL Directive

Guideline for the planning, implementation and maintenance of green roofs; roof greening guideline

FLL Recommendation

Recommendation on the planning and construction of circulation areas on buildings

SitaStandard



- Maximum drainage capacity
- Up to a nominal diameter DN 200
- Robust construction
- Homogeneous roof membrane connection
- Bridging of all insulation thicknesses

Applications - For the main and emergency drainage of DIN EN 12056-3 and DIN 1986-100 and for preventive fire protection according to DIN 18234 for large used and unused roof surfaces

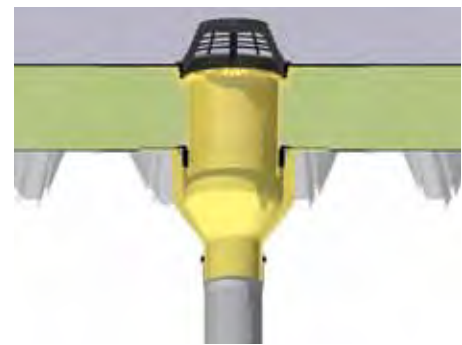
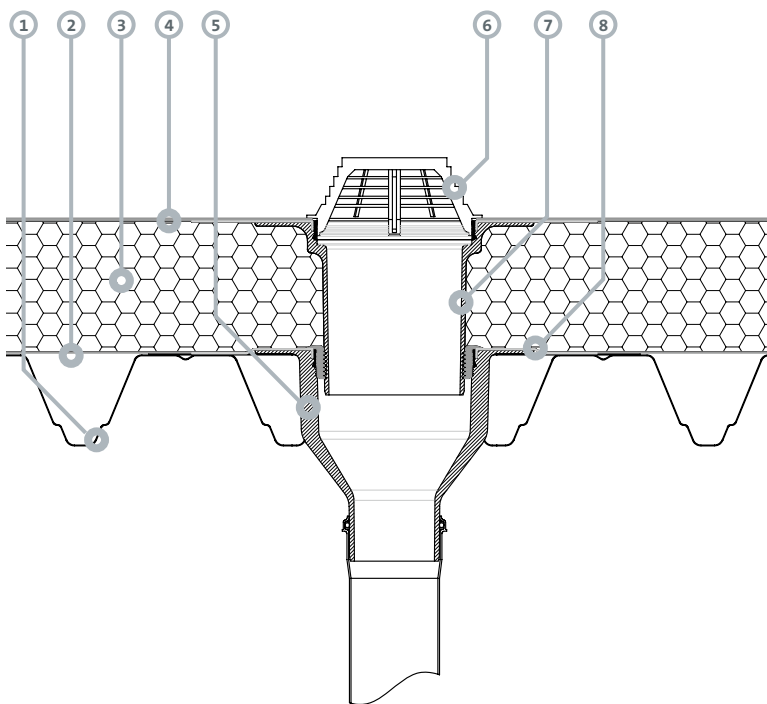
Material - Polyurethane

Colour - Yellow

Surface - Smooth

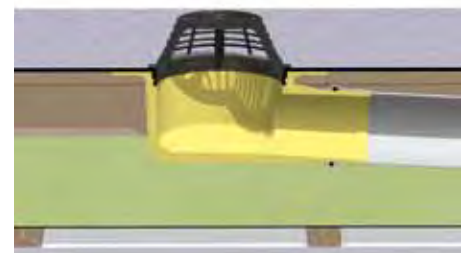
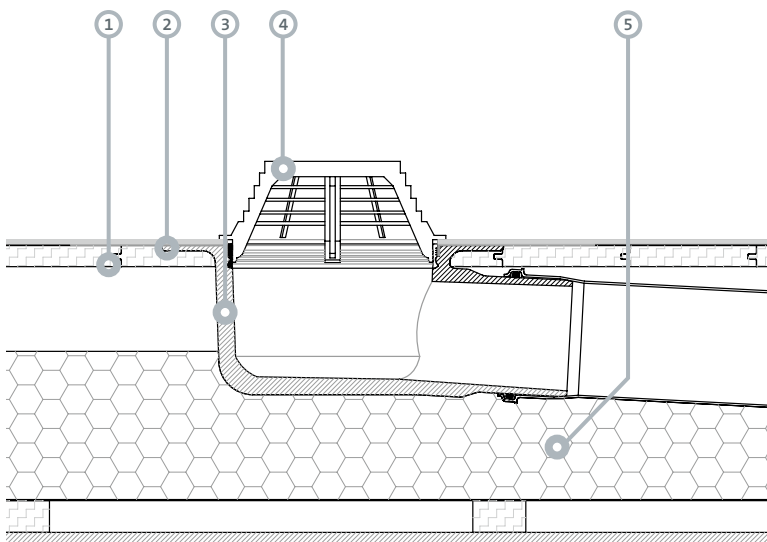
Properties - Heat-insulated
 Excellent weather resistance (UV/IR radiation)
 Resistant to common influences from environmental pollution
 Shock and impact-proof
 Environmentally friendly production and disposal
 Heat-resistant, fire protection class B2
 Durable
 Available with integrated heating element
 Low-noise
 High drainage capacity
 Large hopper head

Installation Example A: SitaStandard roof outlet, vertical, with extension unit and dome grate in non-ventilated flat roof (warm roof).



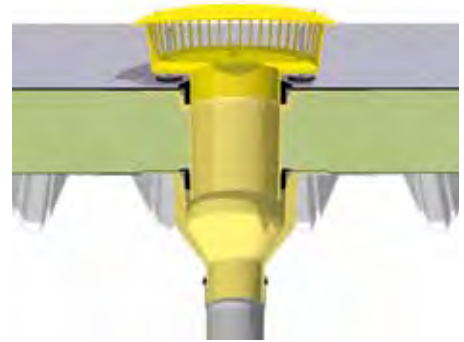
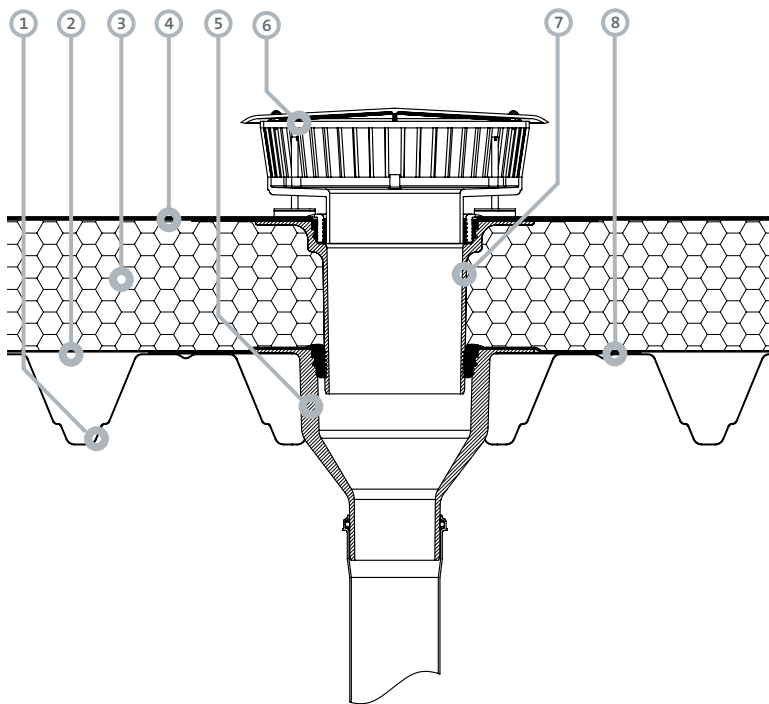
- ① Substructure
- ② Vapour barrier
- ③ Thermal insulation
- ④ Waterproofing to flat roof guidelines
- ⑤ SitaStandard roof outlet
- ⑥ SitaDome grate
- ⑦ SitaStandard extension unit
- ⑧ SitaReinforcement plate

Installation Example B: SitaStandard roof outlet, angled, with a dome grate in the ventilated flat roof (cold roof).



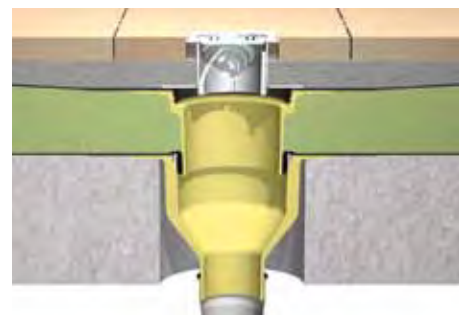
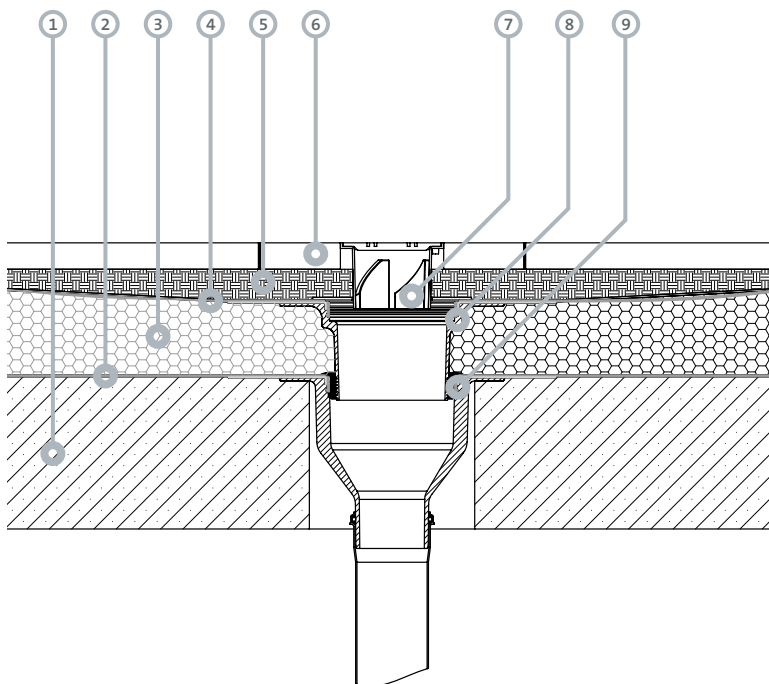
- ① Substructure
- ② Waterproofing to flat roof guidelines
- ③ SitaStandard roof outlet
- ④ SitaDome grate
- ⑤ Thermal insulation

Installation Example C: SitaStandard roof outlet, vertical, with extension unit and retaining element for emergency draining in non-ventilated flat roof (warm roof).



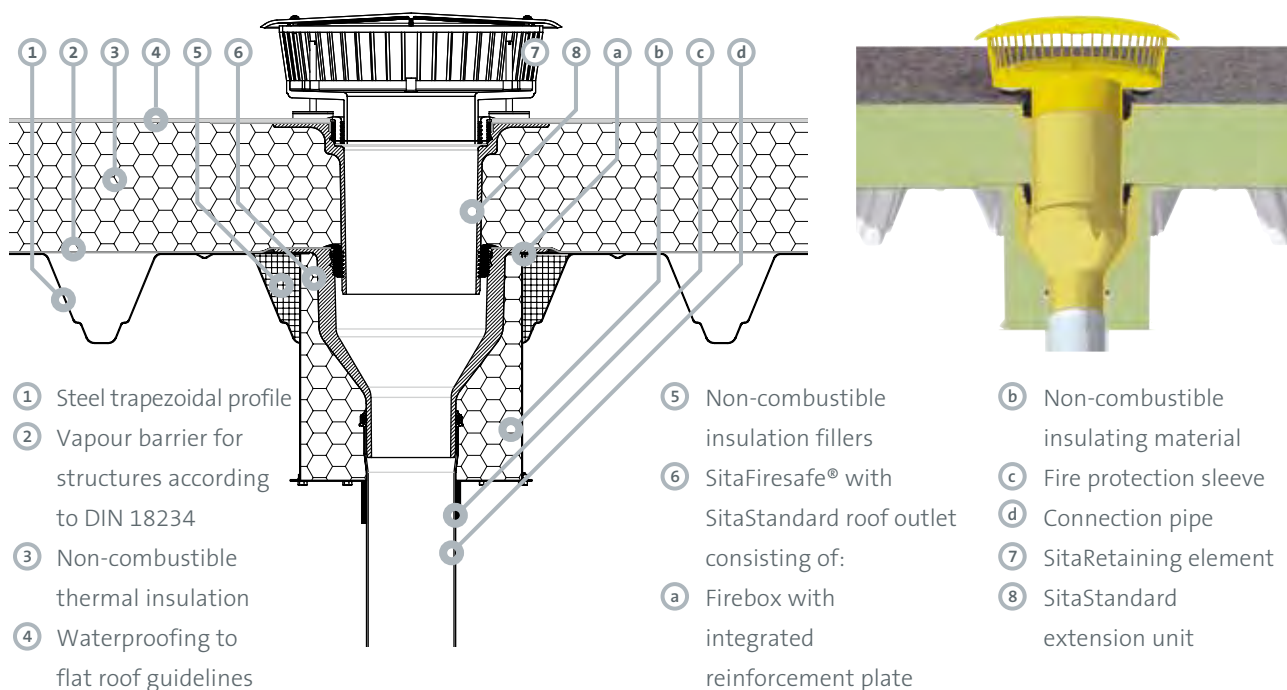
- ① Substructure
- ② Vapour barrier
- ③ Thermal insulation
- ④ Waterproofing to flat roof guidelines
- ⑤ SitaStandard roof outlet
- ⑥ SitaRetaining element
- ⑦ SitaStandard extension unit
- ⑧ SitaReinforcement plate

Installation Example D: SitaStandard roof outlet, vertical, with extension unit and terrace kit in non-ventilated flat roof (warm roof).

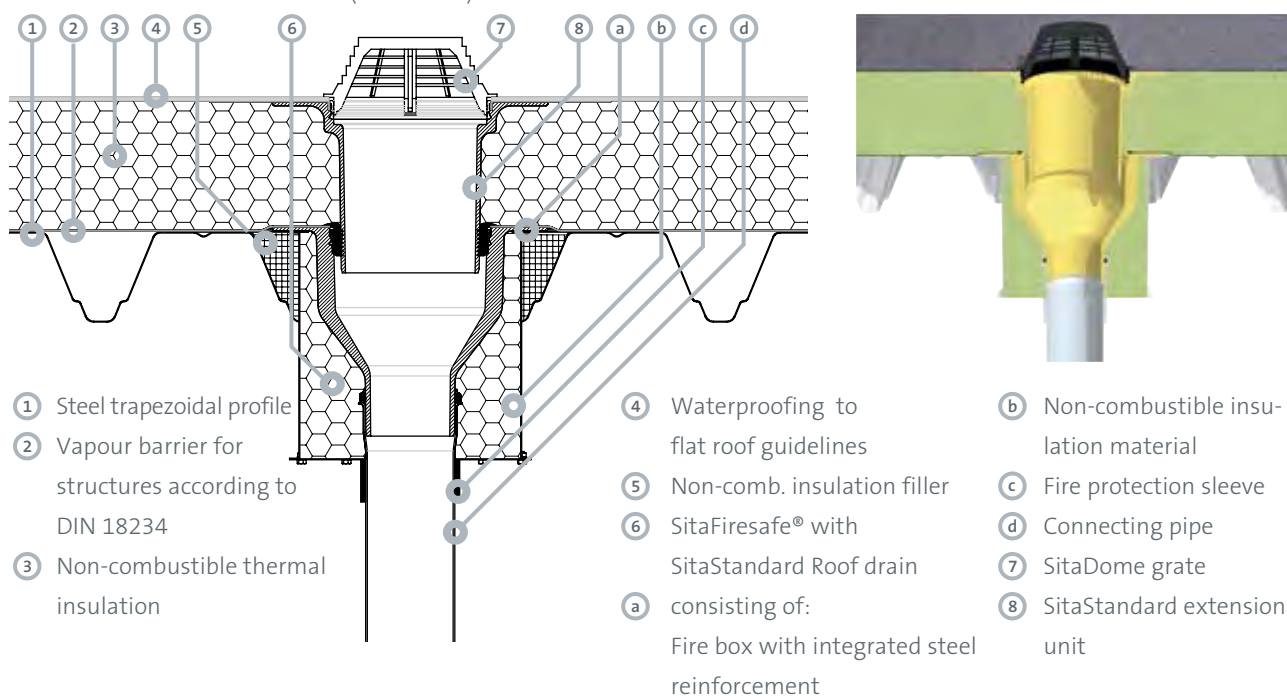


- ① Substructure
- ② Vapour barrier
- ③ Thermal insulation
- ④ Waterproofing to flat roof guidelines
- ⑤ Gravel bed
- ⑥ Slab covering
- ⑦ SitaTerrace kit
- ⑧ SitaStandard extension unit
- ⑨ SitaStandard roof outlet

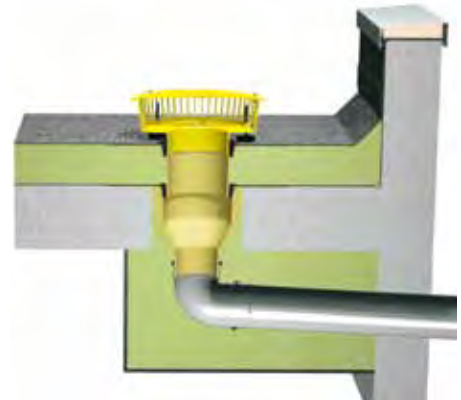
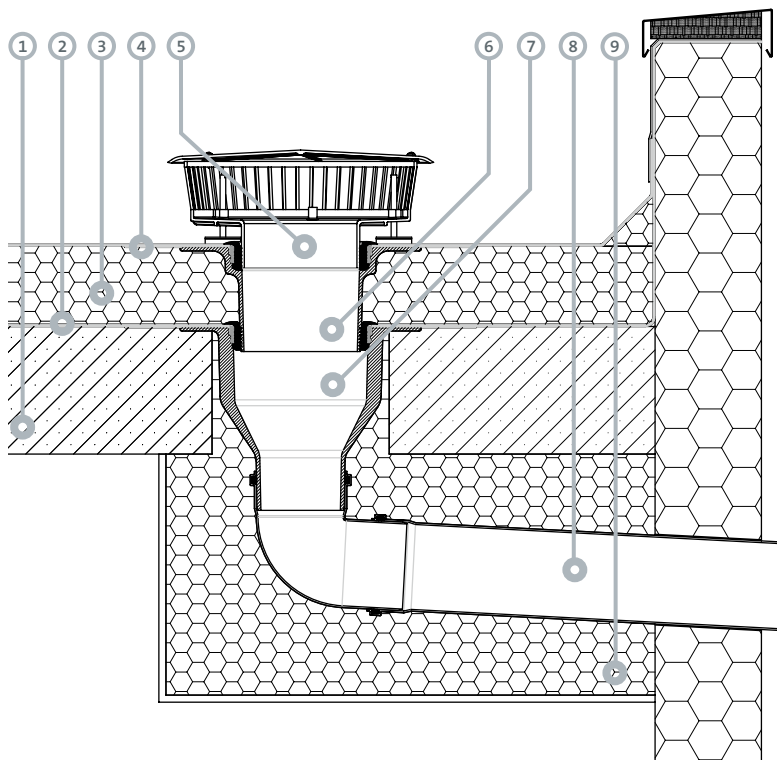
Installation Example E: Emergency drainage with fire safety requirements: SitaFiresafe® with SitaStandard roof outlet according to DIN 18234, installed in a non-ventilated roof structure (warm roof).



Installation Example F: Flat roof drainage with fire protection requirements according to DIN 18234: SitaFiresafe® with Sita Standard roof outlet and Sita extension unit in a non-ventilated roof structure (warm roof).

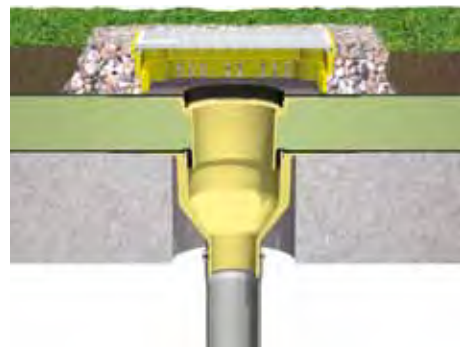
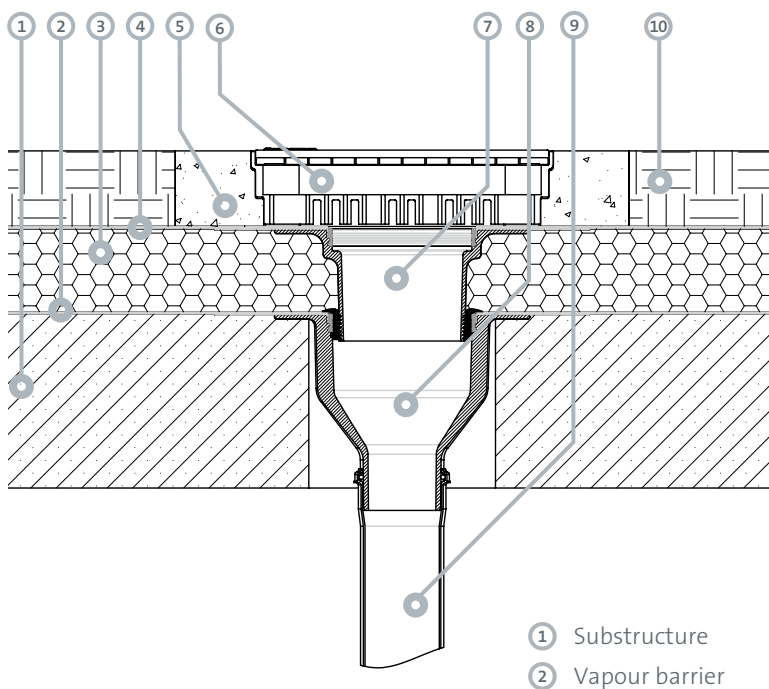


Installation Example G: SitaStandard roof outlet, vertical, with extension unit and SitaRetaining element in a non-ventilated roof structure (warm roof).



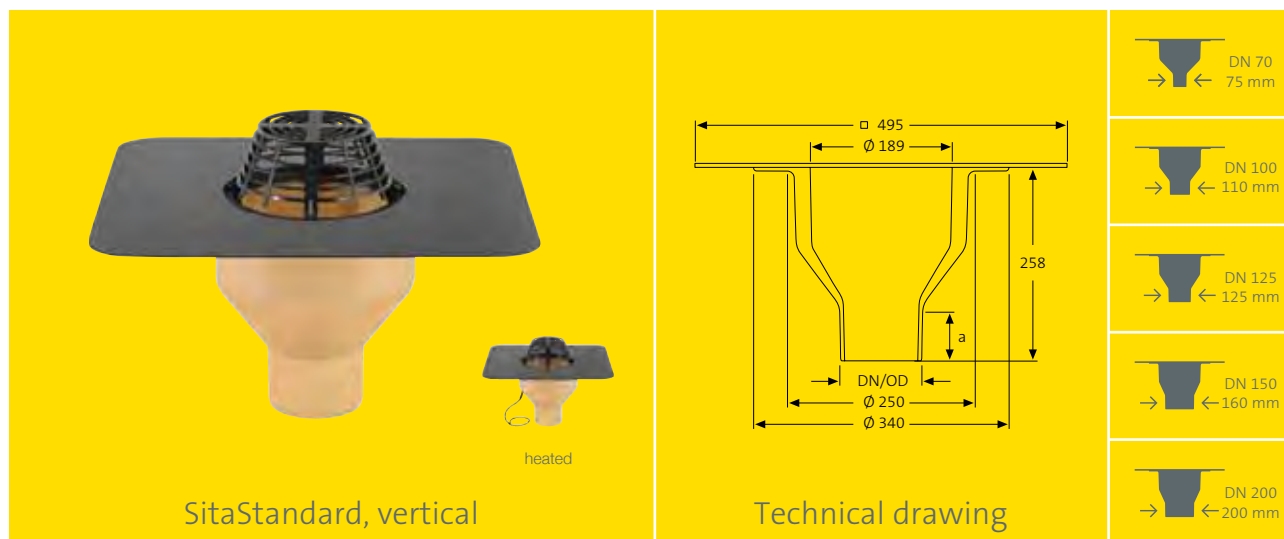
- ① Substructure
- ② Vapour barrier
- ③ Thermal insulation
- ④ Waterproofing to flat roof guidelines
- ⑤ SitaRetaining element
- ⑥ SitaStandard extension unit
- ⑦ SitaStandard roof outlet
- ⑧ Connecting pipe with free outlet
- ⑨ Insulation against condensation

Installation Example H: SitaStandard roof outlet, vertical, with extension unit and green roof shaft in a non-ventilated roof structure (warm roof).



- ③ Thermal insulation
- ④ Waterproofing to flat roof guidelines
- ⑤ Gravel strip
- ⑥ Sita green roof shaft
- ⑦ SitaStandard extension unit
- ⑧ SitaStandard roof outlet
- ⑨ Connection pipe
- ⑩ Green Roof

- ① Substructure
- ② Vapour barrier



Nominal diameters, dimensions, core drill holes and article numbers

Nominal diameter		a	Breakthrough/Core hole	Article number	
DN	DN/OD*	(mm)	(mm)	Without heating	With heating
70	75	65	Ø 250	10 02 xx	10 03 xx
100	110	68		10 04 xx	10 05 xx
125	125	69		10 06 xx	10 07 xx
150	160	77		10 08 xx	10 09 xx
200	200	101		10 10 xx	10 11 xx

*DN/OD = outer diameter (mm)

xx = Article end number for desired connection sleeve, see „Other“ section

Flow rates according to DIN EN 1253 in l/s

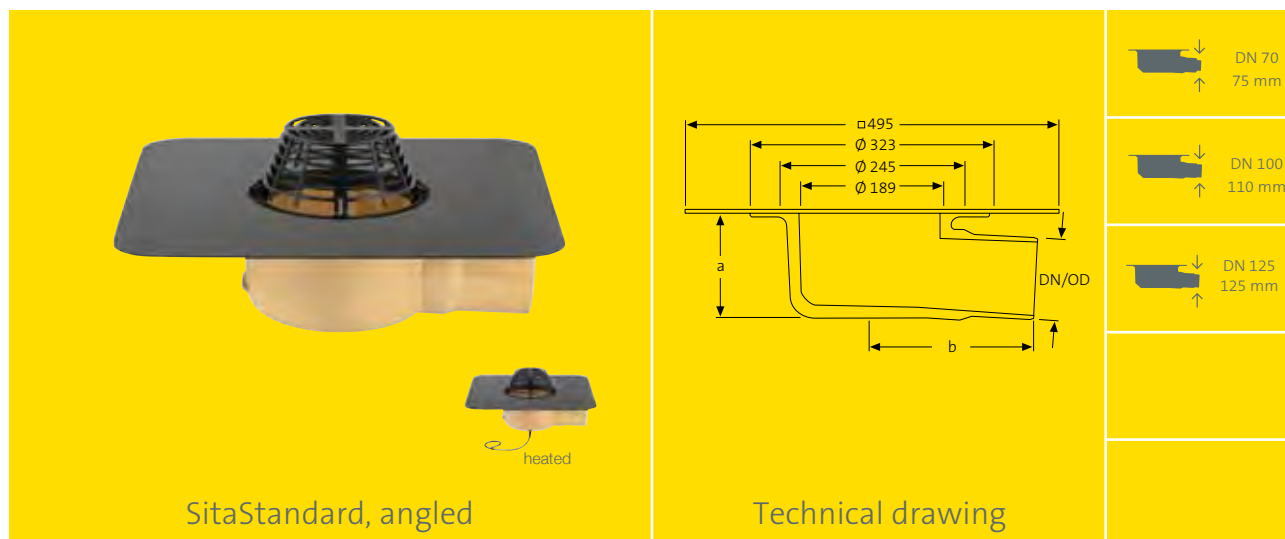
DN	Head of water												
	5	10	15	20	25	30	35	40	45	50	55	60	65
70	0,7	1,7	2,7	3,8	4,8	6,0	7,1	8,3	9,4	10,8	12,2	13,5	14,8
100	0,7	1,8	2,8	3,8	4,8	6,1	7,4	8,5	9,6	11,0	12,3	13,6	14,8
125	0,7	1,8	2,9	4,1	5,2	6,4	7,6	8,7	9,7	11,0	12,3	14,1	15,8
150	0,6	1,6	2,6	3,6	4,6	5,9	7,2	8,2	9,2	11,0	12,8	14,0	15,1
200	0,5	1,5	2,5	3,5	4,5	5,8	7,1	8,1	9,2	10,6	12,0	13,3	14,5

Material: polyurethane

Tender specifications

SitaStandard roof outlet, vertical, polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in nominal diameters DN 70, DN 100, DN 125, DN 150 or DN 200. For direct connection to pipes with spigot and socket joint, for gravity drainage, with large desired connection sleeve (495 mm x 495 mm) suitable for 15 roof waterproofing and with fixing ring for additional securing of the connection sleeve and for holding the enclosed dome grate. Delivered and installed professionally.

SitaStandard roof outlet, vertical, heated, polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in nominal diameters DN 70, DN 100, DN 125 or DN 150. For direct connection to pipes with spigot and socket joint, for gravity drainage, with large desired connection sleeve (495 mm x 495 mm) suitable for 15 roof waterproofing and with fixing ring for additional securing of the connection sleeve and for holding the enclosed dome grate, with foamed heating element and 2 meter long cable for direct connection to 230 V with a heat output of approx. 10 watts. Delivered and installed professionally.



Nominal diameters, dimensions, core drill holes and article numbers

Nominal diameter		a	b	Breakthrough/Core hole	Article number	
DN	DN/OD*	(mm)	(mm)	(mm)	Without heating	With heating
70	75	122	224	250 x 350	10 14 xx	10 15 xx
100	110	145	222	250 x 350	10 16 xx	10 17 xx
125**	125	148	298	250 x 430	10 18 xx	10 19 xx

*DN/OD = outside diameter (mm)

**With transition from DN 100 to DN 125

xx = Article end number for desired connection sleeve, see „Other“ section

Flow rates according to DIN EN 1253 in l/s

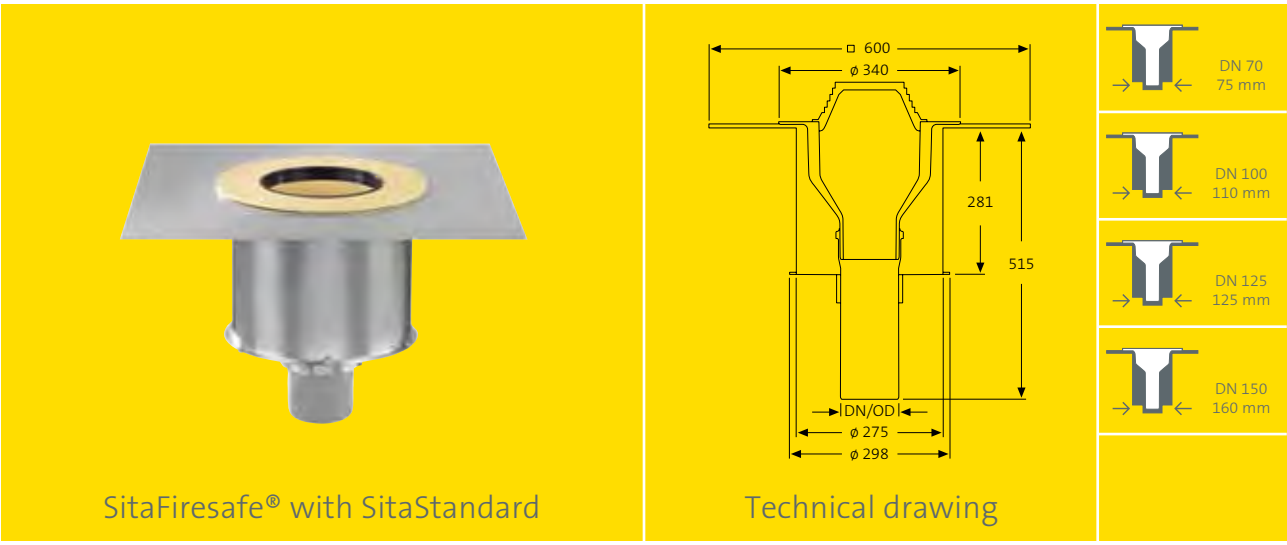
DN	Head of water												
	5	10	15	20	25	30	35	40	45	50	55	60	65
70	0,7	1,8	2,8	3,8	4,7	5,8	6,9	7,9	8,9	10,2	11,5	-	-
100	0,5	1,5	2,4	3,4	4,3	5,3	6,3	7,5	8,6	9,8	11,0	-	-
125	0,8	1,9	2,9	4,1	5,3	6,3	7,3	8,4	9,4	10,8	12,1	13,2	14,3

Material: polyurethane

Tender specifications

SitaStandard roof outlet, angled, polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 70, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with large desired connection sleeve (495 mm x 495 mm) suitable for roof waterproofing and with fixing ring for additional securing of the connection sleeve and for holding the enclosed dome grate. Delivered and installed professionally.

SitaStandard roof outlet, angled, heated polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 70, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with large desired connection sleeve (495 mm x 495 mm) suitable for roof waterproofing and with fixing ring for additional securing of the connection sleeve and for holding the enclosed dome grate, with foamed heating element and 2 meter long cable for direct connection to 230 V with a heat output of approx. 10 watts. Delivered and installed professionally.



Nominal diameters, core drill holes and article numbers

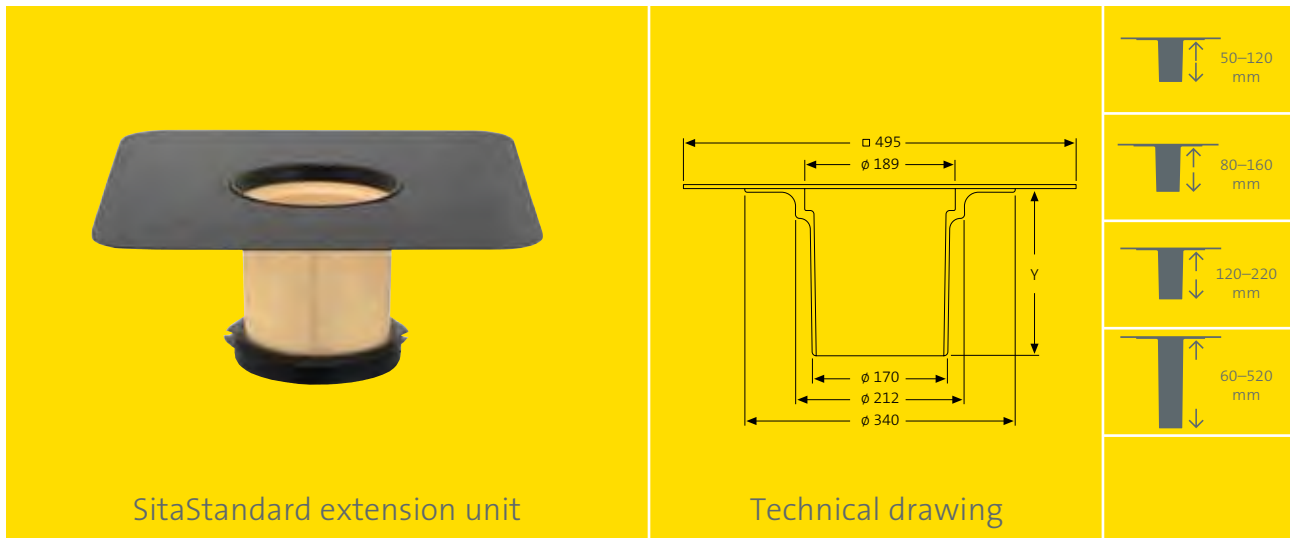
Nominal diameter		Breakthrough/Core hole	Article number
DN	DN/OD*	(mm)	
70	75	ø 300	F10 02 90
100	110		F10 04 90
125	125		F10 06 90
150	160		F10 08 90

*DN/OD = outer diameter (mm)

Material: strip-galvanized sheet steel

Tender specifications

SitaFiresafe® with SitaStandard roof outlet, vertical, DN 70, DN 100, DN 125 and DN 150 for preventive fire protection and to prevent fire from below spreading in the case of small penetrations according to DIN 18234 Part 3 and 4. With adhesive flange according to GET (quality assurance drainage technology) and DIN EN 1253 for gravity drainage, reinforcement plate according to DIN 18807 as well as fire protection box made of strip-galvanized sheet steel, connection pipe made of PP for direct connection to pipes with spigot and socket joint and fire protection sleeve. Delivered and installed professionally.



Heights, bridging for thermal insulation and article numbers

Y (mm)	Bridging for thermal insulation from-to (mm)	Article number
150	50–120	10 24 xx
206	80–160	10 25 xx
254	120–220	10 26 xx
555	60–520	10 50 xx

xx = Article end number for desired connection sleeve, see „Other“ section

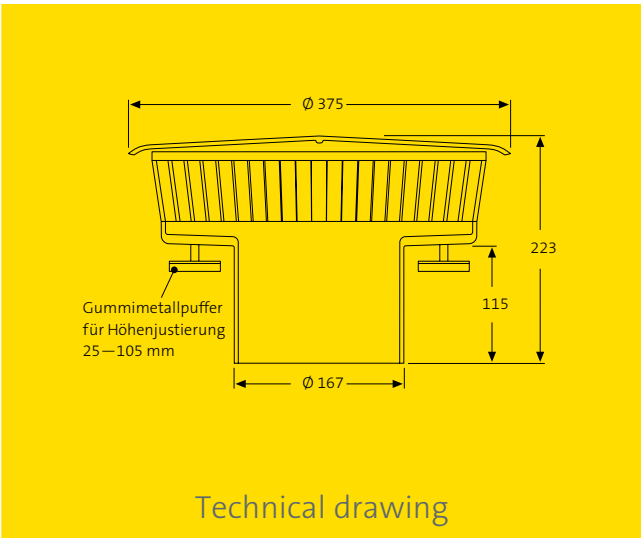
Material: polyurethane

Tender specifications

SitaStandard extension unit, polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, for insulation thicknesses of 50-120 mm, 80-160 mm, 120-220 mm or 60-520 mm. With large foamed-in desired connection sleeve (495 mm x 495 mm), suitable for roof waterproofing, with fixation ring for additional securing of the connection sleeve and for holding the dome grate. Complete with lubricant and multiple lipped angled sealing for backflow protection. Delivered and installed professionally.



SitaRetaining element



Technical drawing

Damming height and article number

Damming height from-to (mm)	Article number
25–105	10 90 01

Flow rates according to DIN EN 1253 in l/s

SitaStandard with SitaRetaining element														
DN	Neck inclination	Head of water												
		5	10	15	20	25	30	35	40	45	50	55	60	65
70	3°-angled	1,2	2,3	3,3	4,8	6,2	7,8	9,4	11,3	13,1	14,2	15,3	15,4	15,5
	Vertical	1,2	2,2	3,1	4,6	6,0	7,6	9,2	11,1	13,0	13,9	14,8	14,9	14,9
100	3°-angled	1,2	2,3	3,4	4,9	6,3	8,1	9,8	11,8	13,8	16,5	19,1	22,9	26,7
	Vertical	1,6	2,8	4,0	5,5	7,0	8,8	10,5	12,3	14,1	16,7	19,3	22,8	26,2
125	Vertical	1,2	2,3	3,4	4,9	6,3	7,9	9,5	11,6	13,6	16,1	18,6	21,9	25,2
150	Vertical	1,4	2,4	3,4	4,9	6,3	8,0	9,6	11,6	13,6	16,2	18,7	22,3	25,8

Material: polyamide

Tender specifications

SitaRetaining element, polyamide, for SitaStandard roof outlets and extension units, for emergency drainage, with multiple-lipped angled sealing ring to seal the retaining element with respect to the roof outlets or the extension unit. With three continuously height-adjustable rubber metal buffers, installation surface per foot: 19.6 cm², with zinc-plated threaded rod M 8 x 90 mm, with closed screw cover that can be removed for inspection purposes, housing with 51 circumferential ridges, in the signal colour yellow. Damming heights continuously adjustable from 25-105 mm, with a large hopper head to increase the drainage capacity, supplied in full and professionally installed.

SitaTrendy | SitaTrendy screw-on-flange



- Compact design
- Drainage capacity significantly above DIN EN 1253
- Excellent value for money
- With desired connection sleeve
- Compatible with SitaTrendy screw-on-flange

Applications - For the main and emergency drainage of DIN EN 12056-3 and DIN 1986-100 and for preventive fire protection according to DIN 18234 for large used and unused roof surfaces

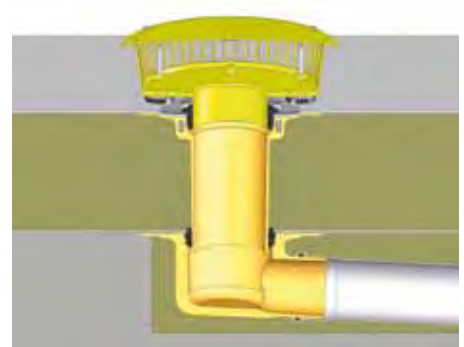
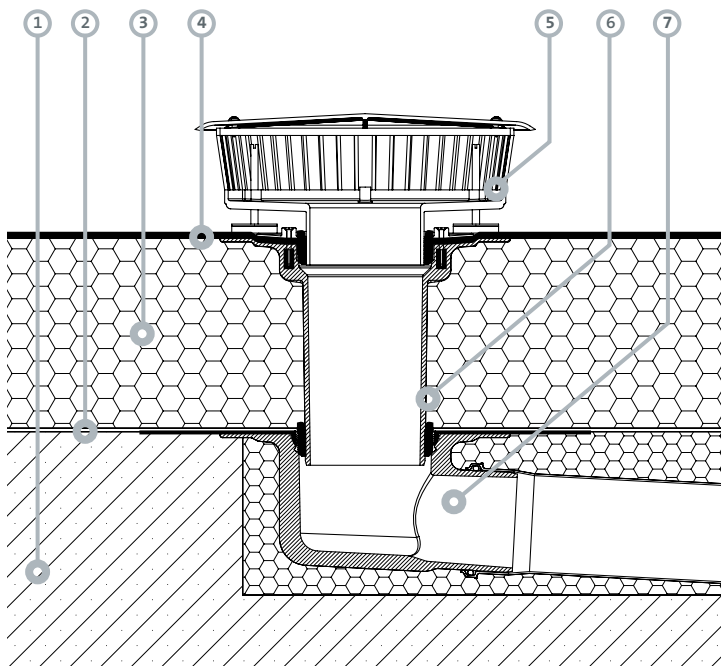
Material - Polyurethane

Colour - Yellow

Surface - Smooth

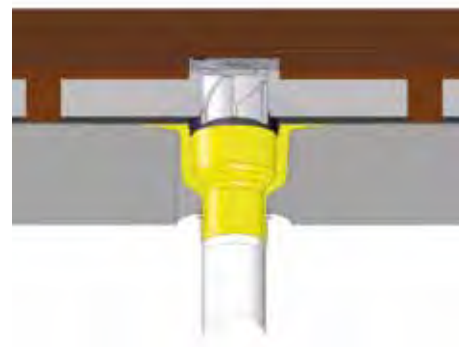
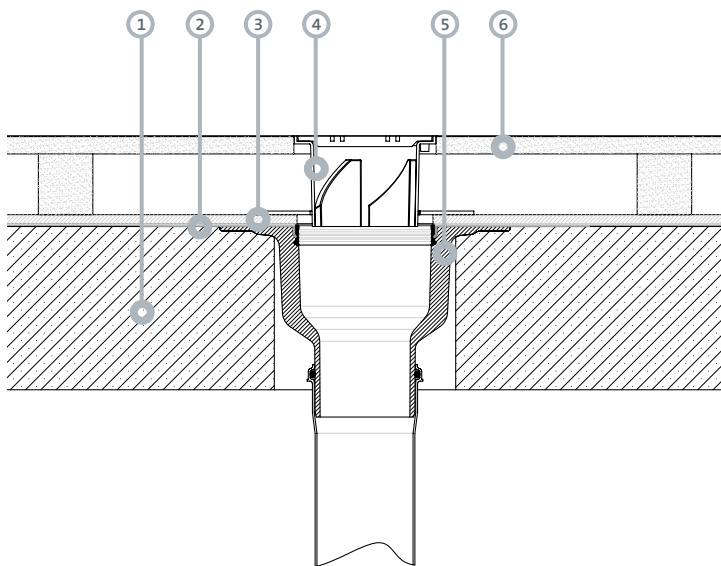
Properties - Thermally insulated
 Excellent weather resistance (UV/IR radiation)
 Resistant to common influences from environmental pollution
 Shock and impact-proof
 Environmentally friendly production and disposal
 Heat-resistant, fire protection class B2
 Durable
 Available with integrated heating element
 Low-noise
 Flow rates
 Large hopper head

Installation Example A: SitaTrendy roof outlet with SitaTrendy screw-on-flange extension unit and retaining element for emergency drainage in a non-ventilated roof structure (warm roof).



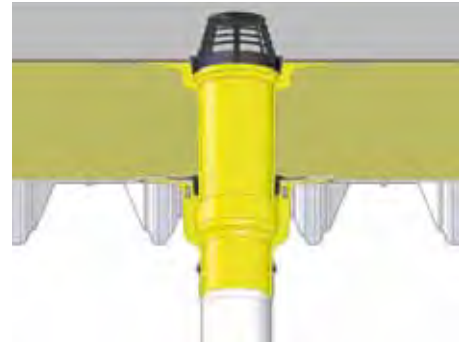
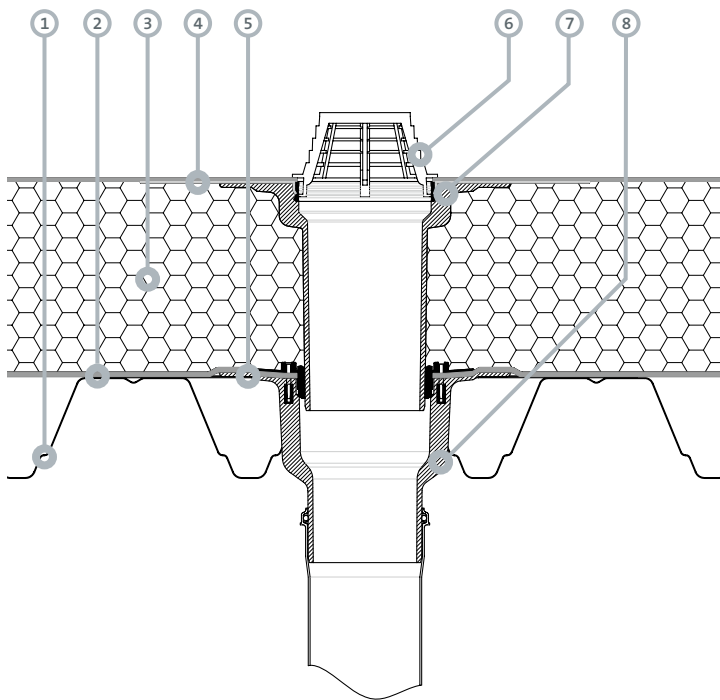
- ① Substructure
- ② Vapour barrier
- ③ Thermal insulation
- ④ Waterproofing to flat roof guidelines
- ⑤ SitaRetaining element
- ⑥ SitaTrendy screw-on-flange extension unit
- ⑦ SitaTrendy roof outlet, angled

Installation Example B: SitaTrendy roof outlet with terrace kit, installed in a roof area with a pedestrian surface.



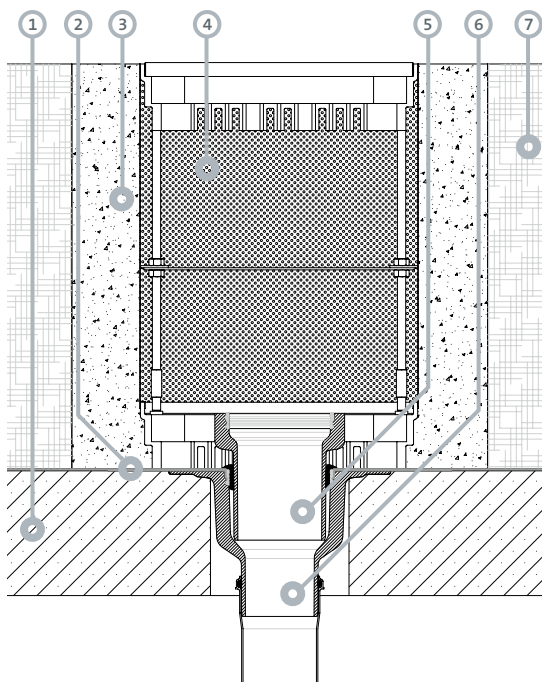
- ① Concrete substructure
- ② Waterproofing to flat roof guidelines
- ③ Protective layer
- ④ SitaTerrace kit
- ⑤ SitaTrendy roof outlet, vertical
- ⑥ Pedestrian surface

Installation Example C: SitaTrendy screw-on-flange roof outlet with SitaTrendy extension unit, installed in a non-ventilated roof structure (warm roof).

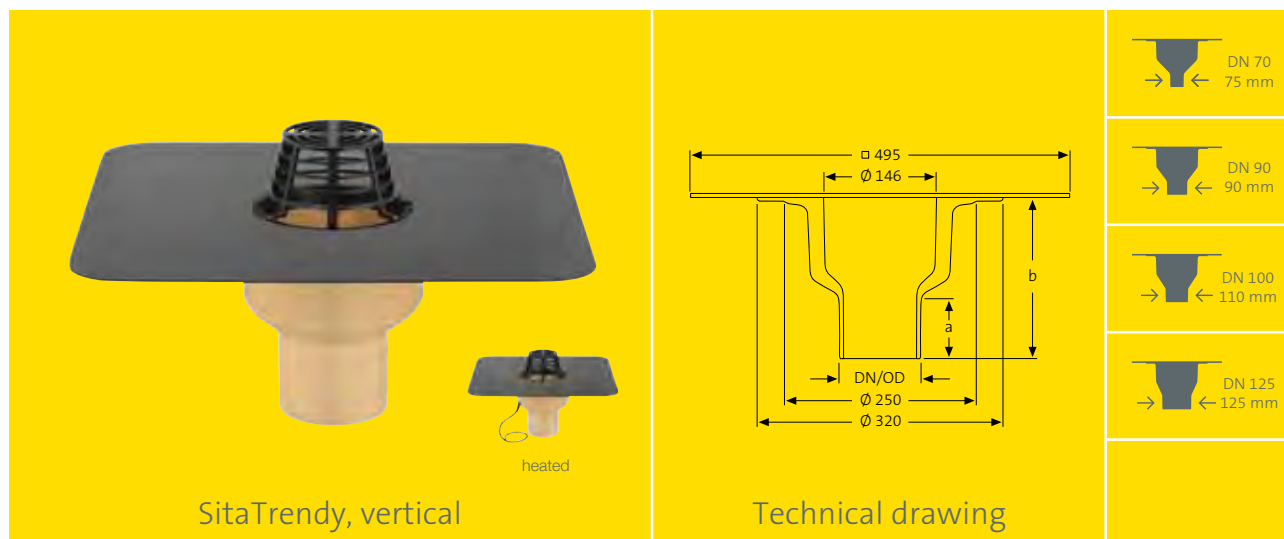


- ① Substructure
- ② Vapour barrier
- ③ Thermal insulation
- ④ Waterproofing to flat roof guidelines
- ⑤ SitaReinforcement plate
- ⑥ SitaDome grate
- ⑦ SitaTrendy extension unit
- ⑧ SitaTrendy screw-on-flange roof outlet, vertical

Installation Example D: Sita green roof shaft for intensive greening with perforated metal frame in an intensively greened roof construction. With SitaTrendy roof outlet and SitaRetaining element



- ① Substructure
- ② Waterproofing to flat roof guidelines
- ③ Gravel strip
- ④ SitaGreen roof shaft for intensive greening
- ⑤ SitaRetaining element for rain retention
- ⑥ SitaTrendy roof outlet, vertical
- ⑦ Green roof structure



Nominal diameters, dimensions, core drill holes and article numbers

Nominal diameter		a	b	Breakthrough/Core hole	Article number	
DN	DN/OD*	(mm)	(mm)	(mm)	Without heating	With heating
70	75	63	210	ø 250	15 02 xx	15 03 xx
90	90	56	125		15 01 xx	SitaTherm
100	110	75	210		15 04 xx	15 05 xx
125	125	79	210		15 06 xx	15 07 xx

*DN/OD = outer diameter (mm)

xx = Article end number for desired connection sleeve, see „Other“ section

Flow rates according to DIN EN 1253 in l/s

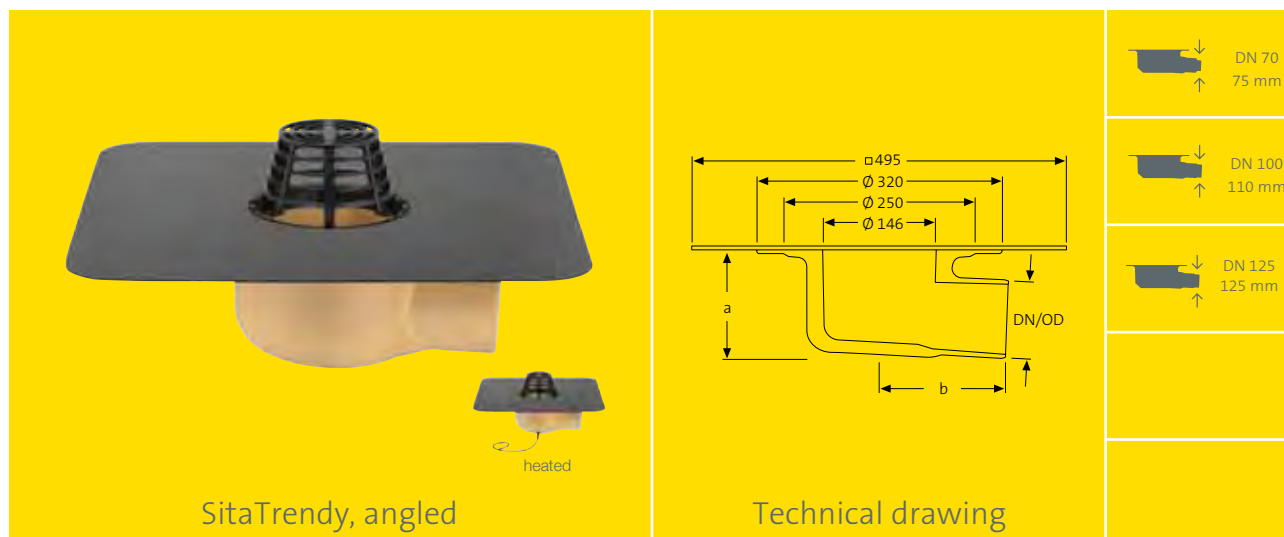
DN	Head of water												
	5	10	15	20	25	30	35	40	45	50	55	60	65
70	0,6	1,4	2,2	3,1	3,9	4,7	5,5	6,6	7,6	8,6	9,5	10,4	11,3
90	0,4	1,3	2,1	3,3	4,5	5,5	6,5	7,3	8,0	8,6	9,2	-	-
100	0,6	1,5	2,3	3,3	4,3	5,2	6,1	7,3	8,5	9,4	10,3	11,0	11,7
125	0,7	1,6	2,4	3,3	4,2	5,1	5,9	7,3	8,7	10,1	11,4	12,7	14,0

Material: polyurethane

Tender specifications

SitaTrendy roof outlet, vertical, polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in nominal diameters DN 70, DN 90, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with large desired connection sleeve (495 mm x 495 mm) suitable for roof waterproofing and with fixing ring for additional securing of the connection sleeve and for holding the enclosed dome grate. Delivered and installed professionally.

SitaTrendy roof outlet, vertical, heated polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 70, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with large desired connection sleeve (495 mm x 495 mm) suitable for roof waterproofing and with fixing ring for additional securing of the connection sleeve and for holding the enclosed dome grate, with foamed-in heating element and 2.0 m long cable for direct connection to 230 V with a heat output of approximately 10 watts. Delivered and installed professionally.



Nominal diameters, dimensions, core drill holes and article numbers

Nominal diameter		a	b	Breakthrough/Core hole	Article number	
DN	DN/OD*	(mm)	(mm)	(mm)	Without heating	With heating
70	75	117	165	ø 250 x 350	15 14 xx	15 15 xx
100	110	153	162	ø 250 x 350	15 16 xx	15 17 xx
125**	125	161	241	ø 250 x 420	15 18 xx	15 19 xx

*DN/OD = outside diameter (mm)

**With transition from DN 100 to DN 125

xx = Article end number for desired connection sleeve, see „Other“ section

Flow rates according to DIN EN 1253 in l/s

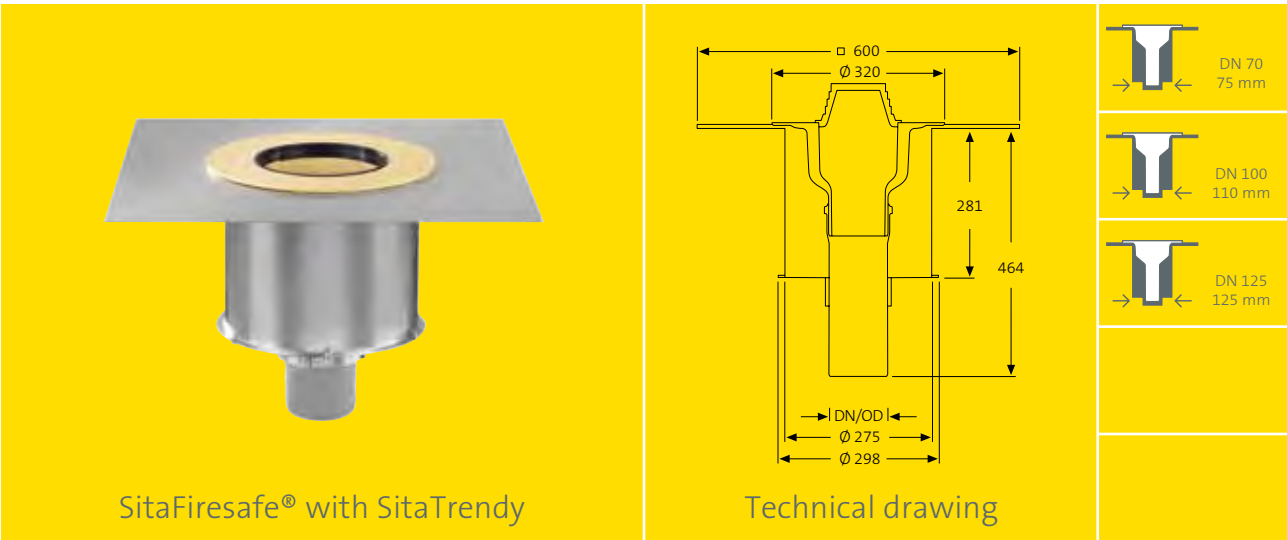
DN	Head of water												
	5	10	15	20	25	30	35	40	45	50	55	60	65
70	0,5	1,1	1,6	2,6	3,5	4,5	5,4	6,5	7,5	8,5	9,5	10,8	12,1
100	0,5	1,2	1,8	2,7	3,6	4,6	5,6	6,7	7,8	9,0	10,2	11,9	13,5
125	0,6	1,5	2,4	3,1	3,8	4,8	5,7	6,8	7,9	9,5	11,0	12,4	13,8

Material: polyurethane

Tender specifications

SitaTrendy roof outlet, angled polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 70, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with large desired connection sleeve (495 mm x 495 mm) suitable for roof waterproofing and with fixing ring for additional securing of the connection sleeve and for holding the enclosed dome grate. Delivered and installed professionally.

SitaTrendy roof outlet, angled, heated polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 70, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with large desired connection sleeve (495 mm x 495 mm) suitable for roof waterproofing and with fixing ring for additional securing of the connection sleeve and for holding the enclosed dome grate, with foamed heating element and 2 meter long cable for direct connection to 230 V with a heat output of approx. 10 watts. Delivered and installed professionally.



Nominal diameters, core drill holes and article numbers

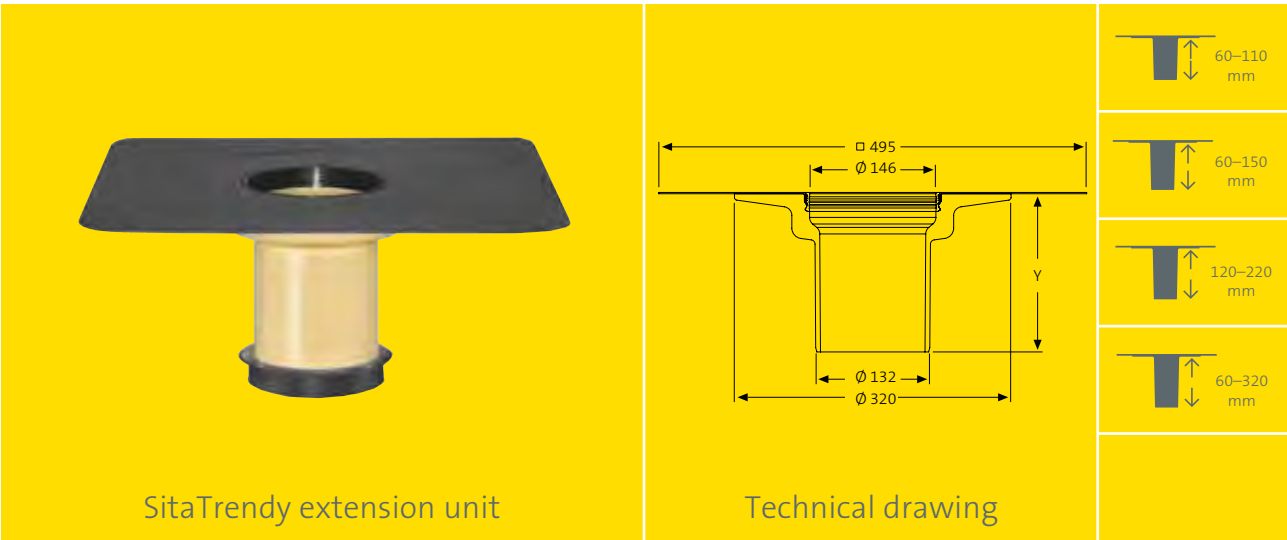
Nominal diameter		Breakthrough/Core hole	Article number
DN	DN/OD*	(mm)	
70	75	ø 300	F15 02 90
100	110		F15 04 90
125	125		F15 06 90

*DN/OD = outer diameter (mm)

Material: strip-galvanized sheet steel

Tender specifications

SitaFiresafe® with SitaTrendy roof outlet, DN 70, DN 100 or DN 125 for preventive fire protection and to prevent fire from below spreading in the case of small penetrations according to DIN 18234 Part 3 and 4. With adhesive flange according to GET (quality assurance drainage technology) and DIN EN 1253 for gravity drainage, reinforcement plate according to DIN 18807 as well as fire protection box made of strip-galvanized sheet steel, connection pipe made of PP for direct connection to pipes with spigot and socket joint and fire protection sleeve. Delivered and installed professionally.



Heights, bridging for thermal insulation and article numbers

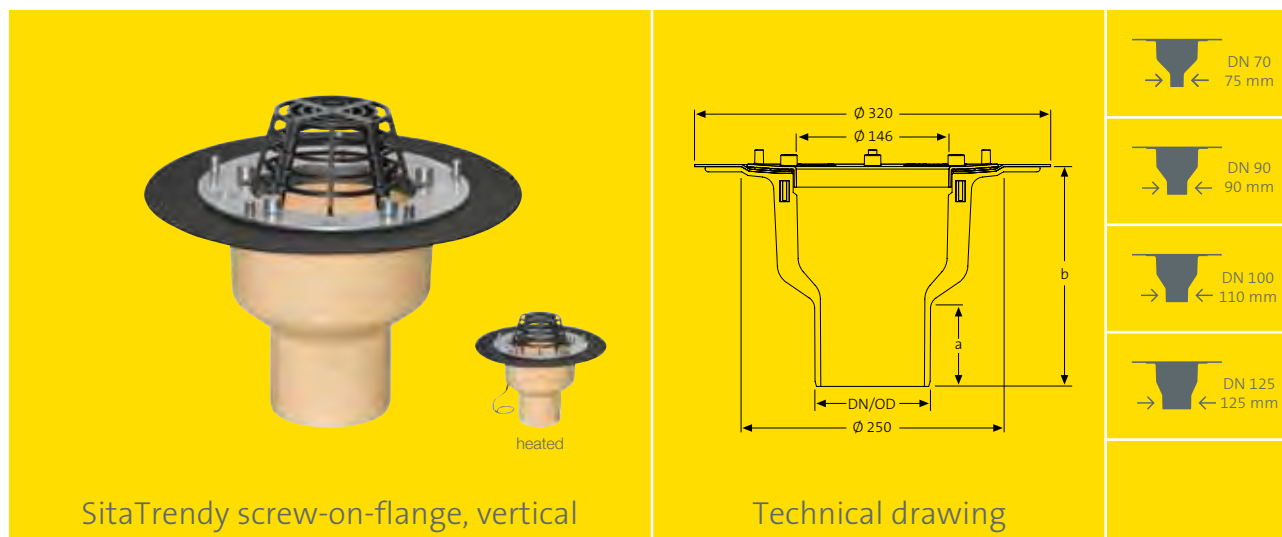
Y (mm)	Bridging for thermal insulation	Article number
	from-to (mm)	
142	60–110	15 24 xx
183	60–150	15 25 xx
251	120–220	15 26 xx
355	60–320	15 27 xx

xx = Article end number for desired connection sleeve, see „Other“ section

Material: polyurethane

Tender specifications

SitaTrendy extension unit, polyurethane, manufactured according to DIN EN 1253 for insulation thicknesses of 60-110 mm, 60-150 mm, 120-220 mm or 60-320 mm. With large foamed-in desired connection sleeve (495 mm x 495 mm), suitable for roof waterproofing, with fixation ring for additional securing of the connection sleeve and for holding the dome grate. Complete, including multiple-lipped angled sealing ring for backflow protection and lubricant, delivered and installed professionally.



Nominal diameters, dimensions, core drill holes and article numbers

Nominal diameter		a	b	Breakthrough/Core hole	Article number	
DN	DN/OD*	(mm)	(mm)	(mm)	Without heating	With heating
70	75	63	210	ø 250	15 02 99	15 03 99
90	90	56	125		15 01 99	SitaTherm
100	110	75	210		15 04 99	15 05 99
125	125	79	210		15 06 99	15 07 99

*DN/OD = outer diameter (mm)

Flow rates according to DIN EN 1253 in l/s

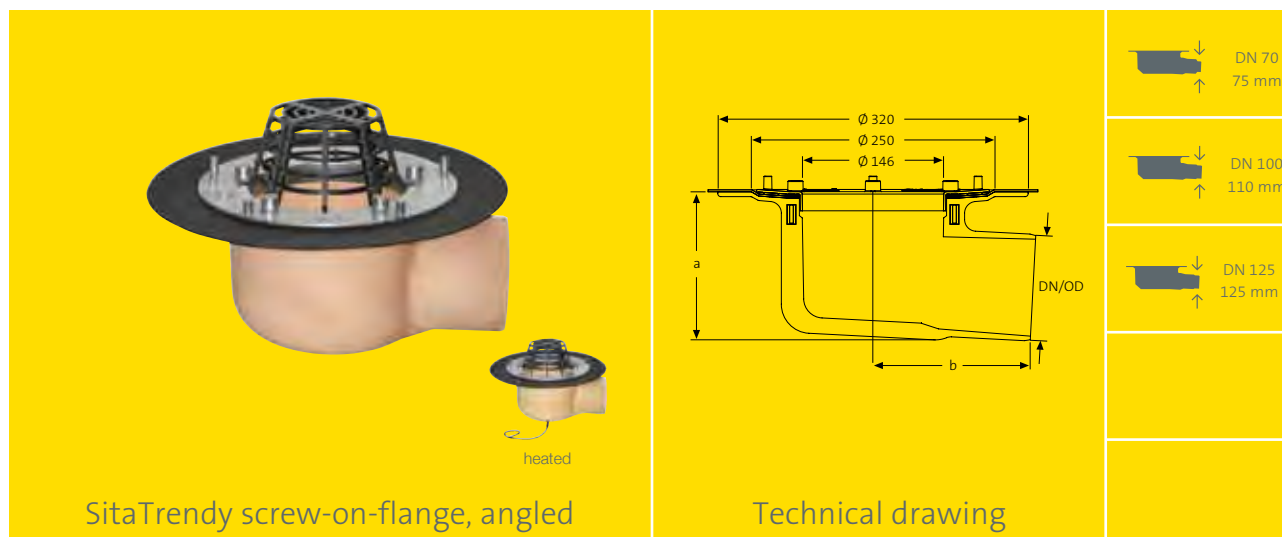
DN	Head of water												
	5	10	15	20	25	30	35	40	45	50	55	60	65
70	0,6	1,4	2,2	3,1	3,9	4,7	5,5	6,6	7,6	8,6	9,5	10,4	11,3
90	0,4	1,3	2,1	3,3	4,5	5,5	6,5	7,3	8,0	8,6	9,2	-	-
100	0,6	1,5	2,3	3,3	4,3	5,2	6,1	7,3	8,5	9,4	10,3	11,0	11,7
125	0,7	1,6	2,4	3,3	4,2	5,1	5,9	7,3	8,7	10,1	11,4	12,7	14,0

Material: polyurethane

Tender specifications

SitaTrendy screw-on-flange roof outlet, vertical, polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in nominal diameters DN 70, DN 90, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with ready-made drill holes for mounting the component on the substructure. With foamed-in insert ring to hold the screws supplied, loose flange made of aluminium and two sealing sleeves for clamping in bitumen, plastic or rubber waterproofing membranes. Complete, including dome grate, delivered and professionally installed.

SitaTrendy screw-on-flange roof outlet, vertical, heated, polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 70, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with ready-made drill holes for mounting the component on the substructure. With foamed-in heating element and 2.0 m long cable for direct connection to 230 V with a heat output of approximately 10 watts, with foamed-in insert ring to hold the screws supplied, loose flange made of aluminium slugs and two sealing sleeves for clamping in bitumen, plastic or rubber waterproofing membranes. Complete, including dome grate, delivered and professionally installed.



Nominal diameters, dimensions, core drill holes and article numbers

Nominal diameter		a	b	Breakthrough/Core hole	Article number	
DN	DN/OD*	(mm)	(mm)	(mm)	Without heating	With heating
70	75	117	165	250 x 320	15 14 99	15 15 99
100	110	153	162		15 16 99	15 17 99
125**	125	161	241	250 x 420	15 18 99	15 19 99

*DN/OD = outside diameter (mm)

**With transition from DN 100 to DN 125

Flow rates according to DIN EN 1253 in l/s

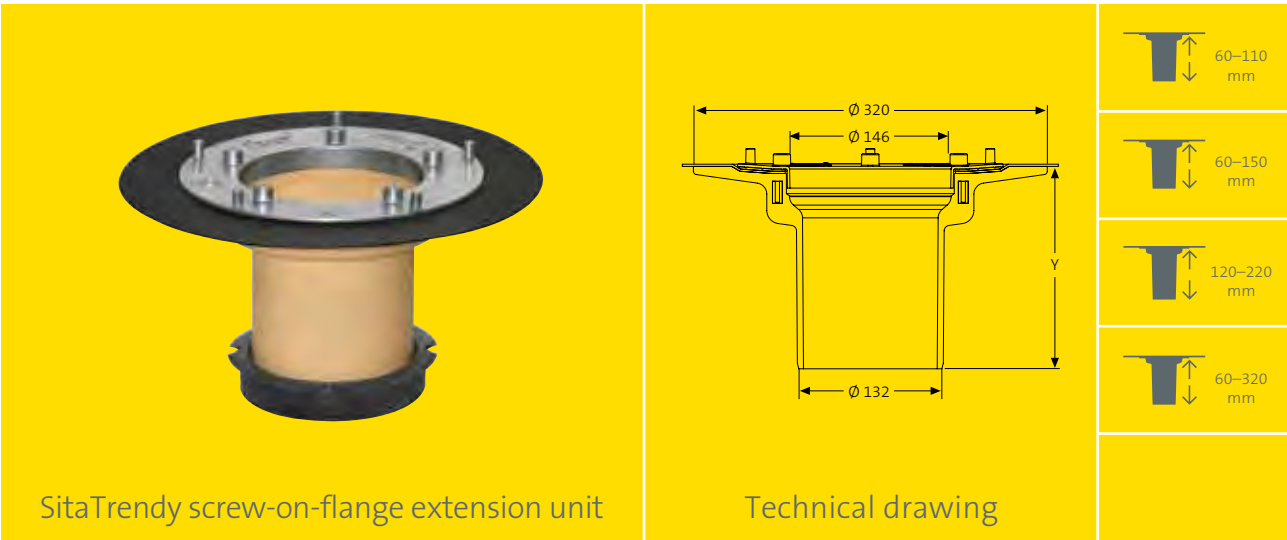
DN	Head of water												
	5	10	15	20	25	30	35	40	45	50	55	60	65
70	0,5	1,1	1,6	2,6	3,5	4,5	5,4	6,5	7,5	8,5	9,5	10,8	12,1
100	0,5	1,2	1,8	2,7	3,6	4,6	5,6	6,7	7,8	9,0	10,2	11,9	13,5
125	0,6	1,5	2,4	3,1	3,8	4,8	5,7	6,8	7,9	9,5	11,0	12,4	13,8

Material: polyurethane

Tender specifications

SitaTrendy screw-on-flange roof outlet, angled polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 70, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with ready-made holes for mounting the component on the substructure, with foamed-in insert ring to hold the screws supplied, loose flange made of aluminium and two sealing sleeves for clamping in bitumen, plastic or rubber waterproofing membranes. Complete, including dome grate, delivered and professionally installed.

SitaTrendy screw-on-flange roof outlet, angled, heated polyurethane, thermally insulated, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 70, DN 100 or DN 125. For direct connection to pipes with spigot and socket joint, for gravity drainage, with ready-made holes for mounting the component on the substructure, with foamed-in heating element and 2.0 m long cable for direct connection to 230 V with a heat output of 10 watts, with foamed-in insert ring to hold the screws supplied, loose flange made of aluminium and two sealing sleeves for clamping in bitumen, plastic or rubber waterproofing membranes. Complete, including dome grate, delivered and professionally installed.



Heights, bridging for thermal insulation and article numbers

Y	Bridging for thermal insulation	Article number
(mm)	from-to (mm)	
142	60-110	15 24 99
183	60-150	15 25 99
251	120-220	15 26 99
355	60-320	15 27 99

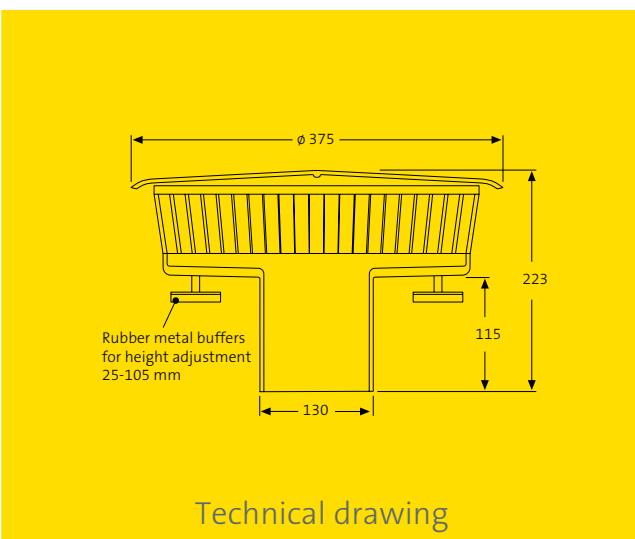
Material: polyurethane

Tender specifications

SitaTrendy screw-on-flange extension unit, made of polyurethane, according to GET (quality assurance drainage technology) and DIN EN 1253, for insulation thicknesses of 60-110 mm, 60-150 mm, 120-220 mm or 60-320 mm, with ready-made drill holes for mounting the component on the substructure. With foamed-in insert ring to hold the screws supplied, loose flange made of aluminium and two sealing sleeves for clamping in bitumen, plastic or rubber waterproofing membranes. Complete, including multiple-lipped angled sealing ring for backflow protection and lubricant, supplied and professionally installed.



SitaRetaining element



Technical drawing

Damming height and article number

Damming height from-to (mm)	Article number
25–105	15 90 01

Flow rates according to DIN EN 1253 in l/s

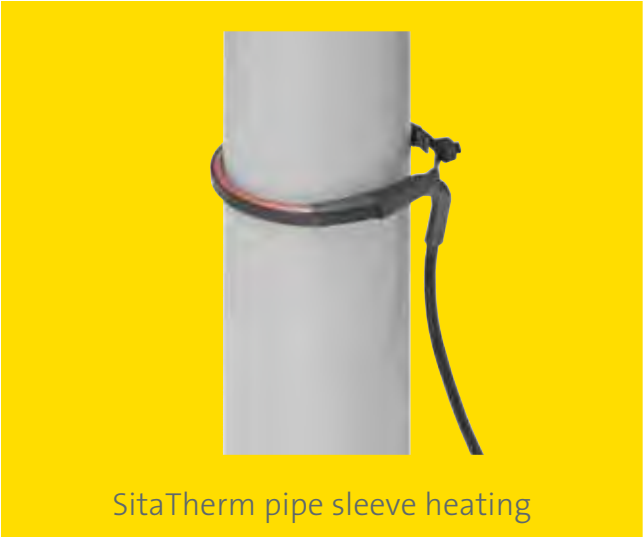
SitaTrendy SitaTrendy screw-on-flange with SitaRetaining element														
DN	Neck inclination	Head of water												
		5	10	15	20	25	30	35	40	45	50	55	60	65
70	3°-angled	1,2	2,2	3,1	4,6	6,0	7,5	8,9	10,5	12,0	12,6	13,1	13,6	14,0
	Vertical	1,2	2,1	2,9	4,4	5,8	7,3	8,8	10,5	12,1	12,4	12,6	13,1	13,5
90	Vertical	1,2	2,3	3,3	4,9	6,4	7,9	9,4	11,2	13,0	14,8	16,6	18,8	20,9
100	3°-angled	1,2	2,3	3,3	4,7	6,0	7,5	9,0	10,5	11,9	14,5	17,0	19,9	22,8
	Vertical	1,2	2,3	3,3	4,7	6,1	7,8	9,4	11,4	13,3	15,2	17,0	19,6	22,2
125	Vertical	1,2	2,2	3,2	4,6	6,0	7,5	9,0	10,7	12,4	14,3	16,2	18,5	20,8

Material: Polyamide

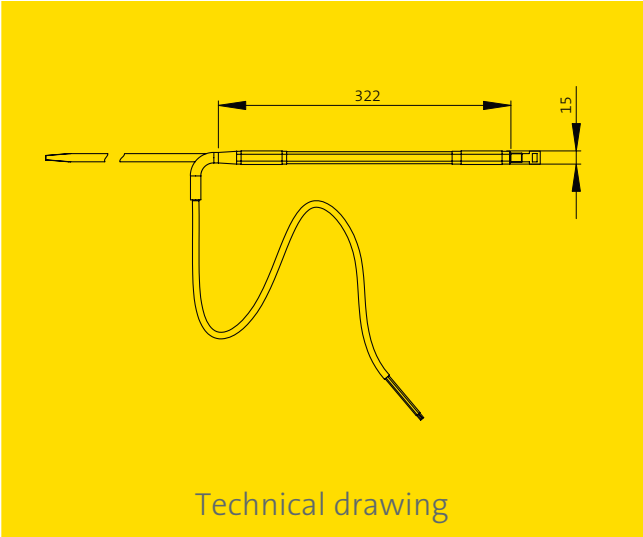
Tender specifications

SitaRetaining element, polyamide, for SitaTrendy and SitaTrendy screw-on-flange roof outlets and extension units, for emergency drainage, with multiple-lipped angled sealing ring to seal the retaining element with respect to the roof outlet or the extension unit. With three continuously height-adjustable rubber metal buffers, installation surface per foot: 19.6 cm², with zinc-plated threaded rod M 8 x 90 mm, with closed screw cover that can be removed for inspection purposes, housing with 51 circumferential ridges, in the signal colour yellow. Damming heights continuously adjustable from 25-105 mm, with a large hopper head to increase the drainage capacity, supplied in full and professionally installed.

Accessories Sita**Standard** and Sita**Trendy** | Sita**Trendy** screw-on-flange



SitaTherm pipe sleeve heating



Technical drawing

Tender specifications

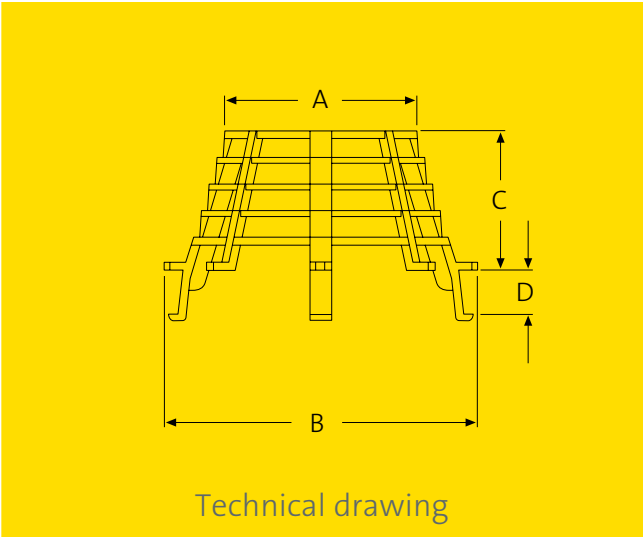
SitaTherm pipe sleeve heating, for heating roof outlets and pipes, self-regulating PTC heating element with a heat output of approximately 10 watts at -20°C and 230 volts with two cable ties for easy attachment to pipes or roof gullies. No transformer is required. Delivered and installed professionally.

Power Supply and Article Number

Power supply	Article number
230 V (approx. 10 watts)	10 90 35



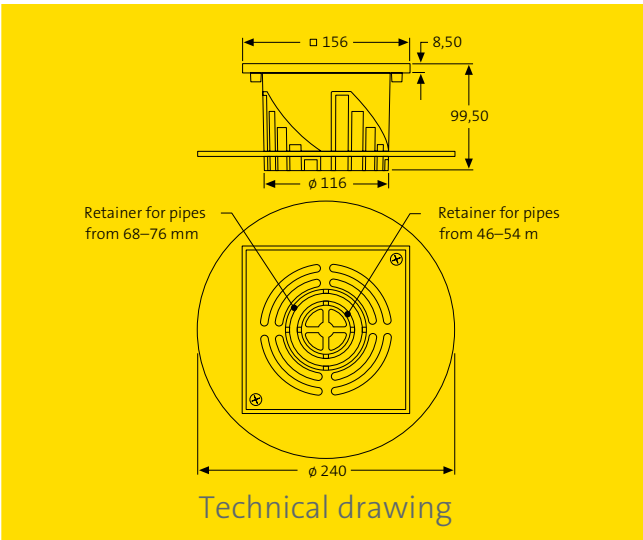
SitaDome grate



Technical drawing

Model and article number

For model	A mm	B mm	C mm	D mm	Article number
SitaStandard	128	214	74	19	E10 90 11
SitaTrendy screw-on-flange	98	160	71	22	E15 90 15

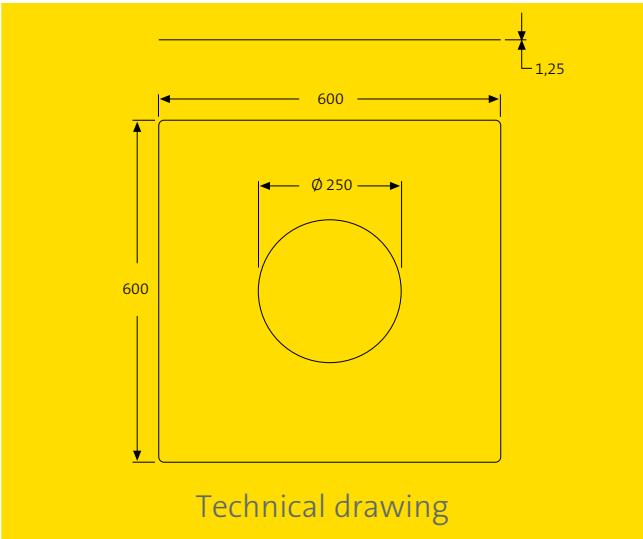
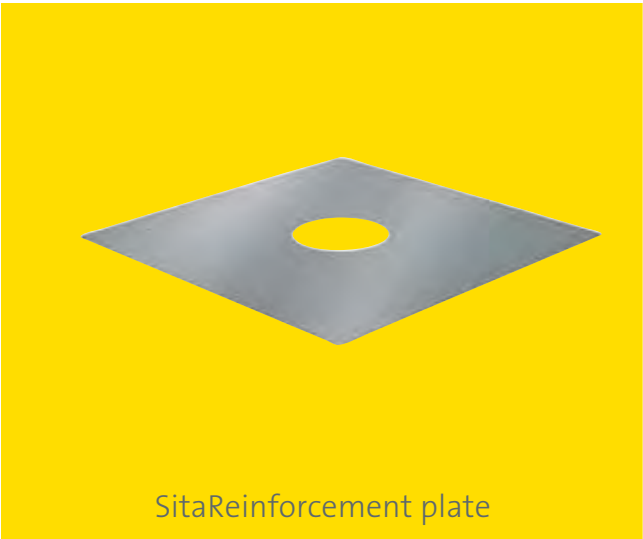


Tender specifications

SitaTerrace kit, made of aluminium, for SitaStandard roof outlet or SitaStandard extension units. Consisting of height adjustment ring, housing (height-adjustable from 34-100 mm) and top grating with integrated recesses for receiving a downpipe in the nominal diameters DN 50 or DN 70, fully supplied and professionally installed.

Model and article number

For model	Article number
SitaStandard/SitaTrendy	15 90 60

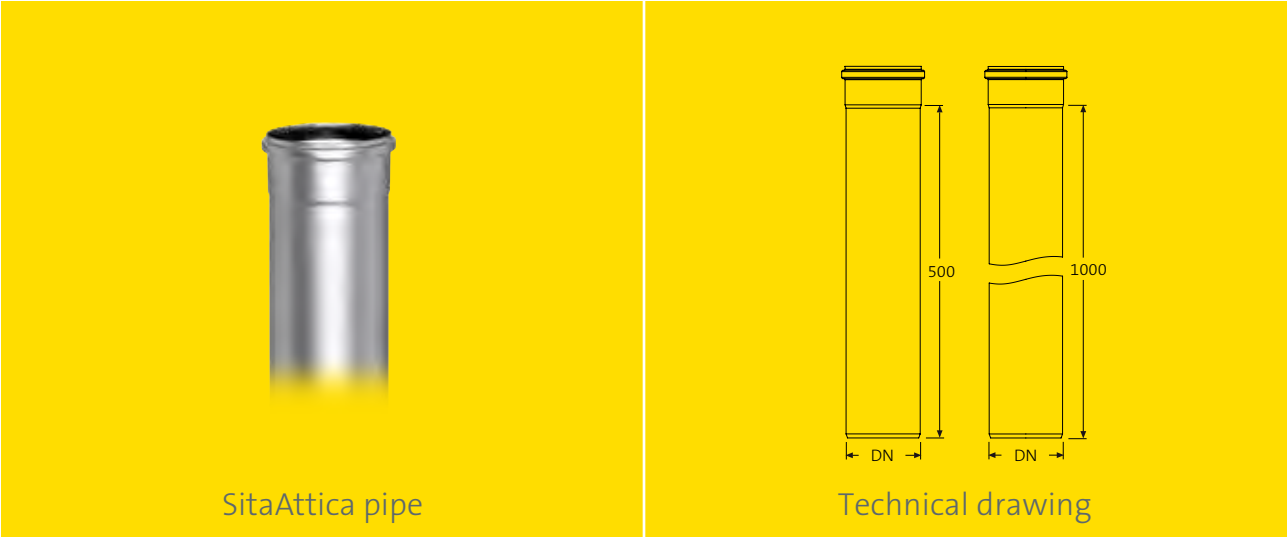


Tender specifications

SitaReinforcement plate, according to DIN 18807 made of strip-galvanized steel sheet. Thickness 1.25 mm, for reinforcing small penetrations in steel trapezoidal profile roofs, delivered and professionally installed.

Model and article number

For model	Article Number
SitaStandard/SitaTrendy	10 90 00
SitaTrendy screw-on-flange	



Nominal diameters, dimensions and article numbers

Nominal diameter		Pipe length	Thickness	Weight	Article number
DN	DN/OD*	(mm)	(mm)	(kg)	
50	50	500	1,0	0,6	70 00 50 05
50	50	1.000	1,0	1,2	70 00 50 10
70	75	500	1,0	1,0	70 00 75 05
70	75	1.000	1,0	1,8	70 00 75 10
100	110	500	1,0	1,4	70 00 11 05
100	110	1.000	1,0	2,7	70 00 11 10
125	125	500	1,0	1,7	70 00 12 05
125	125	1.000	1,0	3,2	70 00 12 10
150	160	500	1,0	2,5	70 00 16 05
150	160	1.000	1,0	5,0	70 00 16 10

*DN/OD = outer diameter (mm) **Further pipe lengths available on request.

Material: Stainless steel, material no. 1.4301

SitaMulti



- Non-combustible
- Loose/fixed flange construction according to DIN 18195
- High drainage capacity
- Nominal diameter DN 150
- Installation in one part with the SitaMulti DN 80 and DN 100 or in two parts possible

Applications - For main and emergency drainage (gravity roof drainage) according to DIN EN 12056-3 and DIN 1986-100 and for preventive fire protection for large used and unused roof surfaces

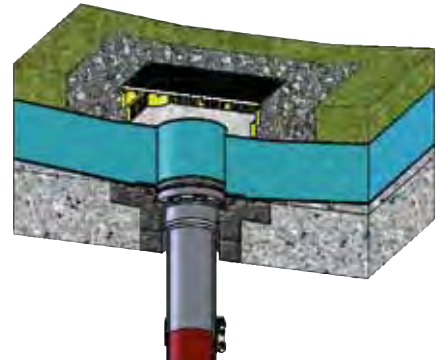
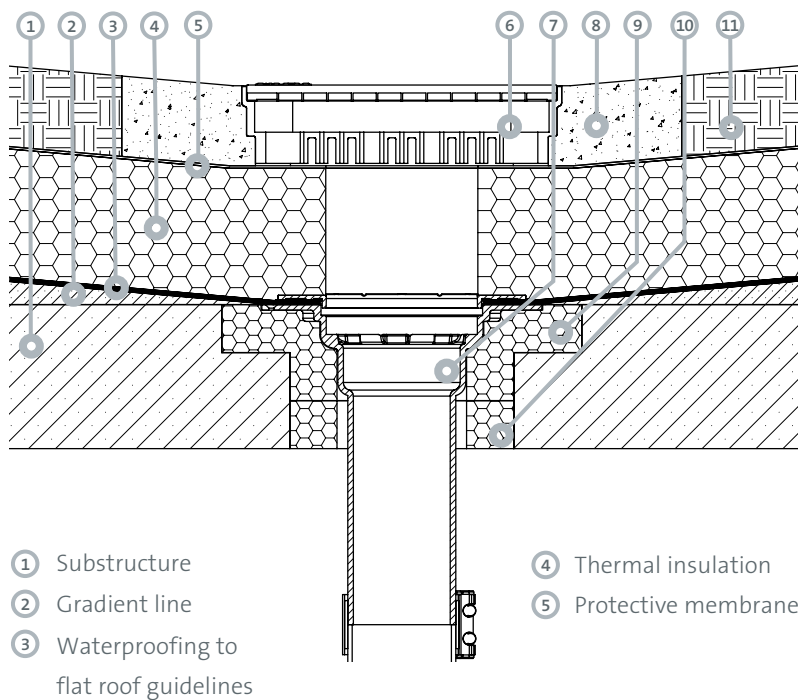
Material - Cast iron EN-GJL-200 according to DIN EN 1561

Colour - Grey

Surface - Smooth

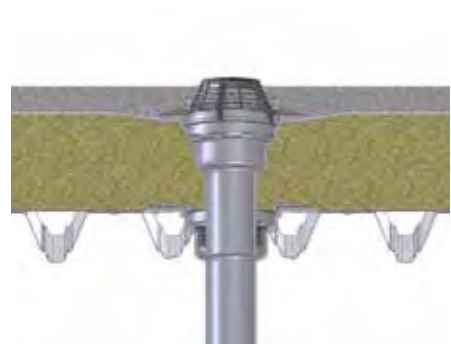
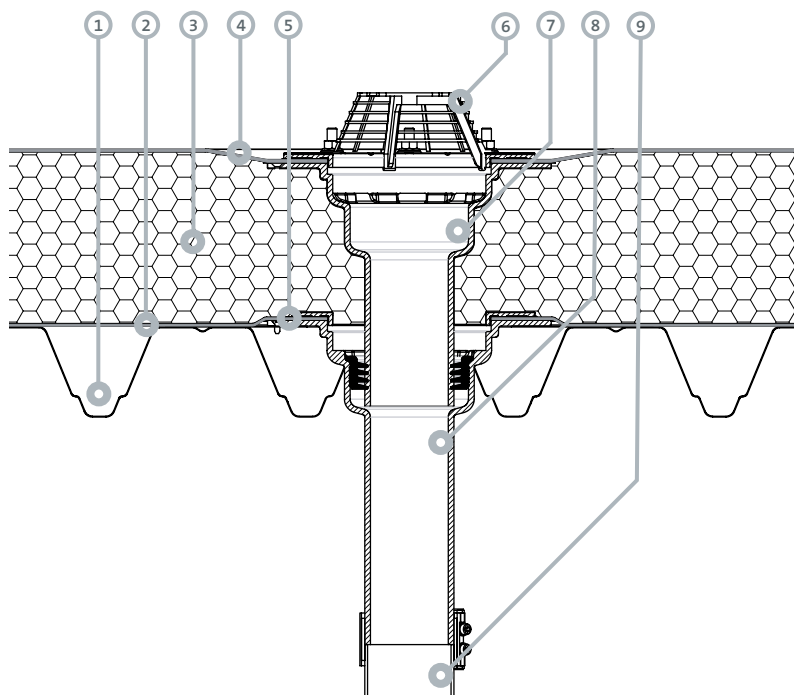
Properties - Resistant to common influences from environmental pollution
Shock and impact-proof
Heat-resistant, fire protection class A1
Durable
Low-noise
Large hopper head
Also suitable for emergency drainage
Universal for any seal
Problem-solving insulating body

Installation Example A: SitaMulti roof outlet with insulating bodies and Sita green roof shaft in an inverted roof with roof greening.



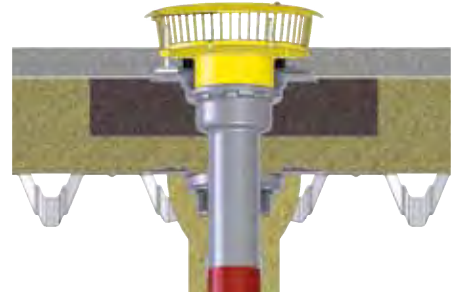
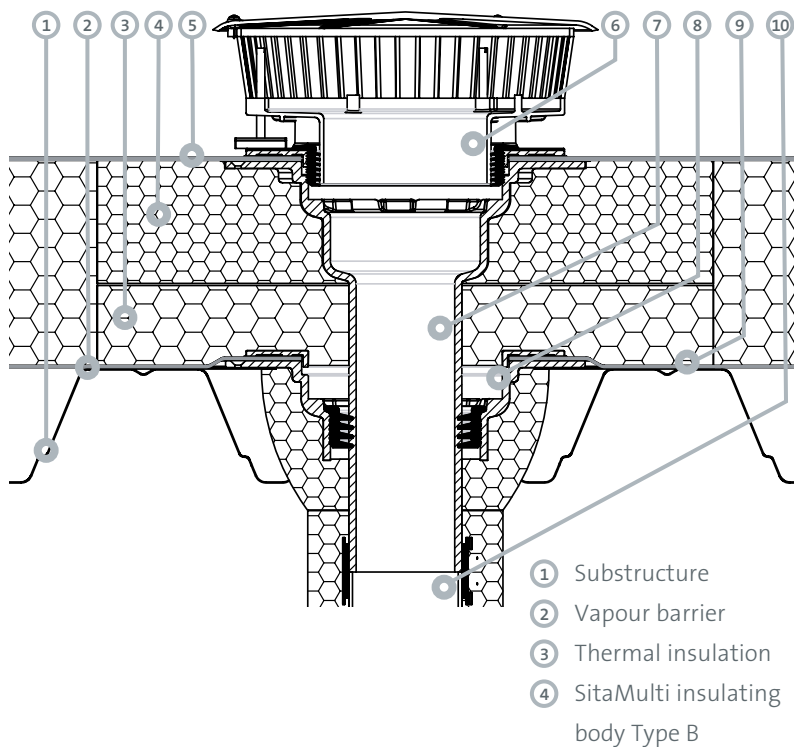
- 6 Sita green roof shaft
7 SitaMulti roof outlet
8 Gravel strip
9 SitaMulti insulating body type A
10 SitaMulti compensating ring for insulating body type A
11 Green Roof

Installation Example B: SitaMulti roof outlet with extension unit in a non-ventilated roof structure (warm roof).



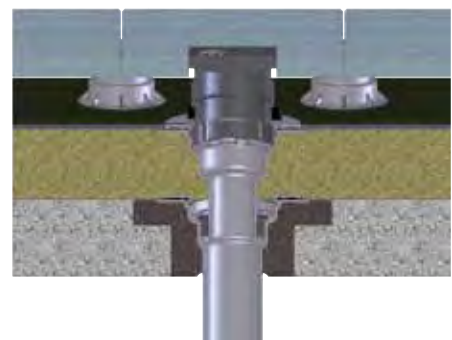
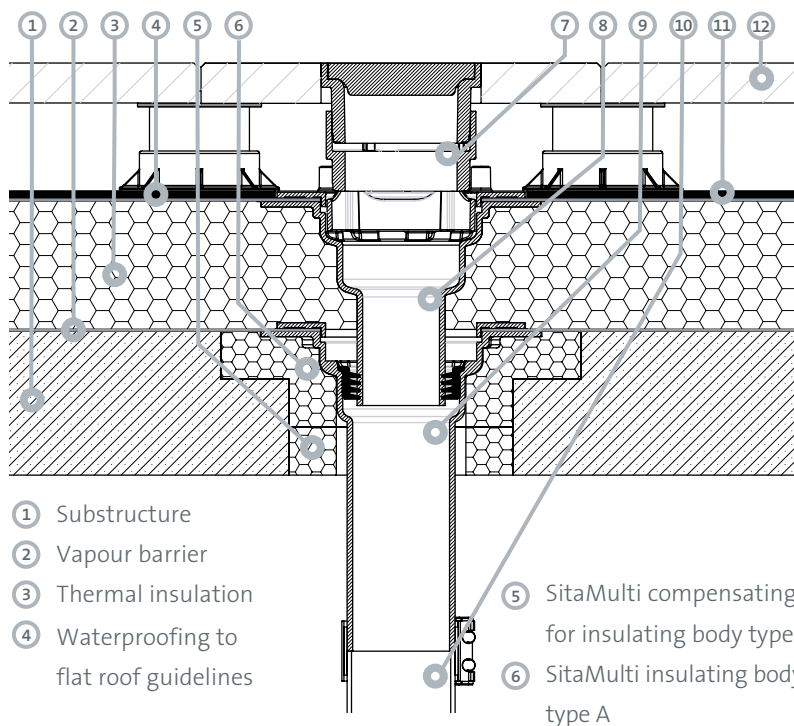
- 1 Substructure
2 Vapour barrier
3 Thermal insulation
4 Waterproofing to flat roof guidelines
5 SitaReinforcement plate
6 SitaDome grate
7 SitaMulti extension unit
8 SitaMulti roof outlet
9 SML pipe

Installation Example C: SitaMulti roof outlet, with baseplate, SitaRetaining element for emergency drainage and insulating body in the non-ventilated roof construction (warm roof).

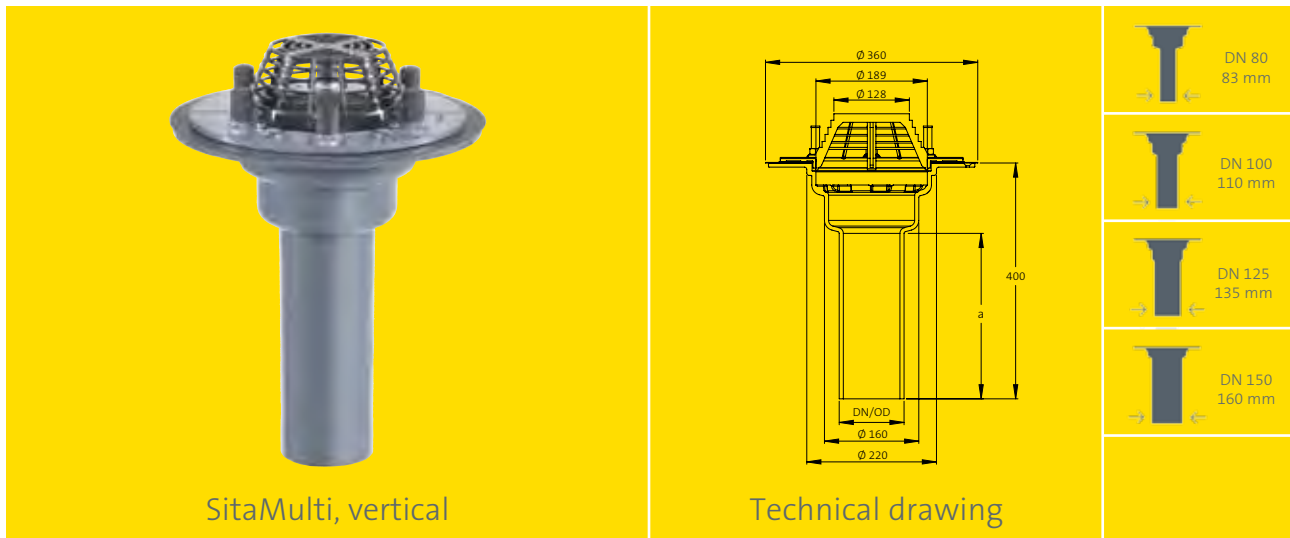


- ⑤ Waterproofing to flat roof guidelines
- ⑥ SitaRetaining element
- ⑦ SitaMulti roof outlet
- ⑧ SitaMulti base plate
- ⑨ SitaReinforcement plate
- ⑩ SML pipe

Installation Example D: SitaMulti roof outlet, with extension unit, stacking frame and insulating bodies on a roof surface with slab covering.



- ⑦ SitaMulti grating frame with height adjustment unit
- ⑧ SitaMulti extension unit
- ⑨ SitaMulti roof outlet
- ⑩ SML pipe
- ⑪ Protective layer
- ⑫ Paving Slab covering



Nominal diameters, dimensions, core drill holes and article numbers

Nominal diameter		a	Breakthrough/Core hole	Article number
DN	DN/OD*	(mm)	(mm)	
80	83	277	ø 250	40 03 99
100	110	280		40 04 99
125	135	286		40 06 99
150	160	343		40 08 99

*DN/OD = outer diameter (mm)

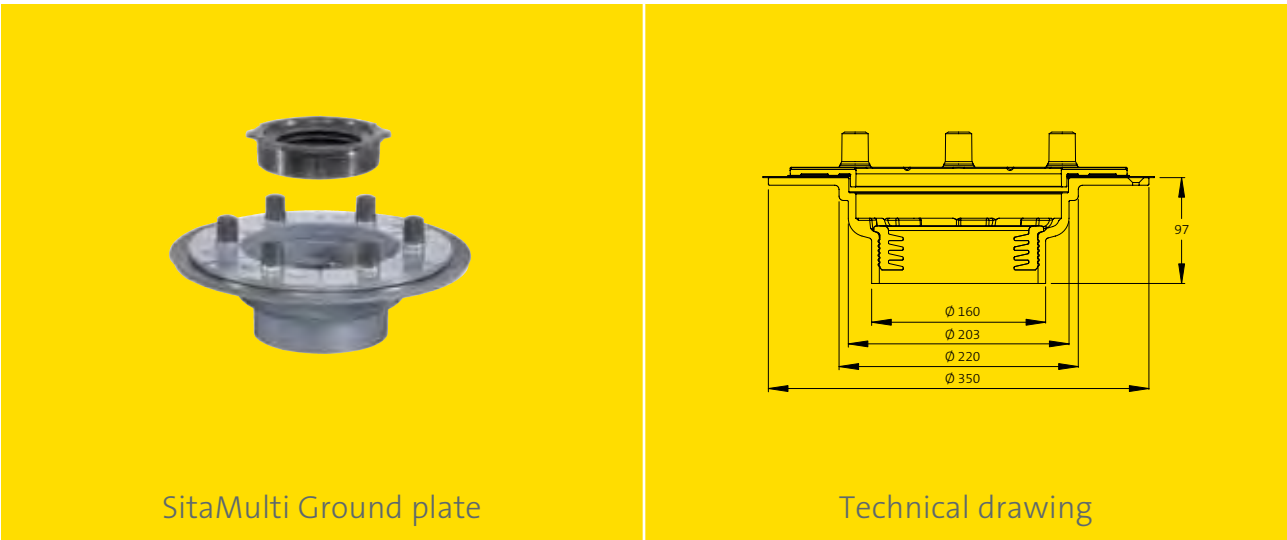
Flow rates according to DIN EN 1253 in l/s

DN	Head of water												
	5	10	15	20	25	30	35	40	45	50	55	60	65
80	0,5	1,4	2,2	3,3	4,4	5,6	6,7	8,0	9,3	10,7	12,0	13,4	14,7
100	0,8	1,8	2,7	4,1	5,4	6,6	7,7	8,9	10,1	11,3	12,5	13,9	15,2
125	0,5	1,4	2,2	3,3	4,4	5,6	6,8	7,9	9,0	10,4	11,8	13,2	14,5
150	0,5	1,1	1,7	2,8	3,9	5,1	6,2	7,5	8,7	10,2	11,6	13,1	14,6

Material: cast iron

Tender specifications

SitaMulti roof outlet, vertical, cast iron, material EN-GJL-200, according to GET (quality assurance drainage technology) and DIN EN 1253, in the nominal diameters DN 80, DN 100, DN 125 or DN 150. For direct connection to SML pipes, for gravity drainage, with internal lugs for receiving the stacking frame, with drill holes for mounting the roof gullies in the substructure, with loose flange according to DIN 18195 with seepage openings, two sealing sleeves, six screwed-in M12 threaded rods made of stainless steel, washers, hex nuts made of brass and protective caps for clamping in bitumen, plastic or rubber waterproofing membranes. Complete, including dome grate, delivered and professionally installed.



SitaMulti Ground plate

Technical drawing

Bridging for the thermal insulation and article number

DN	Bridging for thermal insulation	Article number
	from-to (mm)	
80	80–260	42 26 99
100	80–260	40 26 99

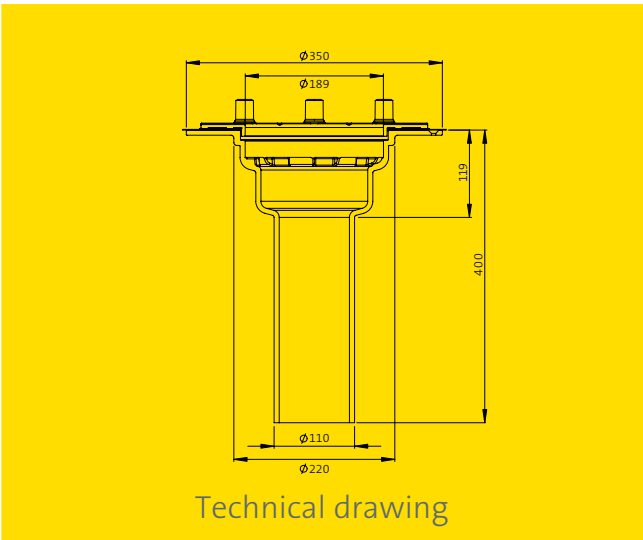
Material: cast iron

Tender specifications

SitaMulti Ground plate, cast iron, material EN-GJL-200, for SitaMulti roof outlet in the nominal diameter DN 80 or DN 100. For insulation thicknesses of 80 - 260 mm. With drill holes for mounting the baseplate in the substructure, with loose flange according to DIN 18195 with seepage openings, two sealing sleeves, six screwed-in M12 threaded rods made of stainless steel, washers, hex nuts made of brass and protective caps for clamping in bitumen, plastic or rubber water-proofing membranes. Complete, including multiple-lipped angled sealing ring for vapour-tight connection, supplied and professionally installed.



SitaMulti extension unit



Technical drawing

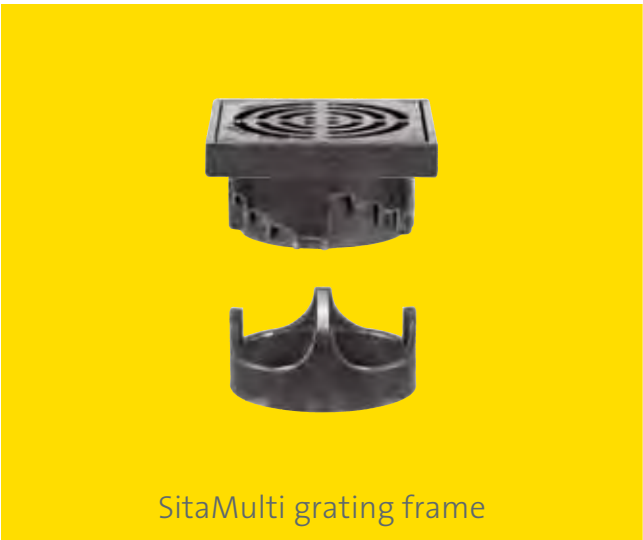
Bridging for the thermal insulation and article number

Bridging for thermal insulation		Article number
from-to (mm)		
80–300		40 27 99

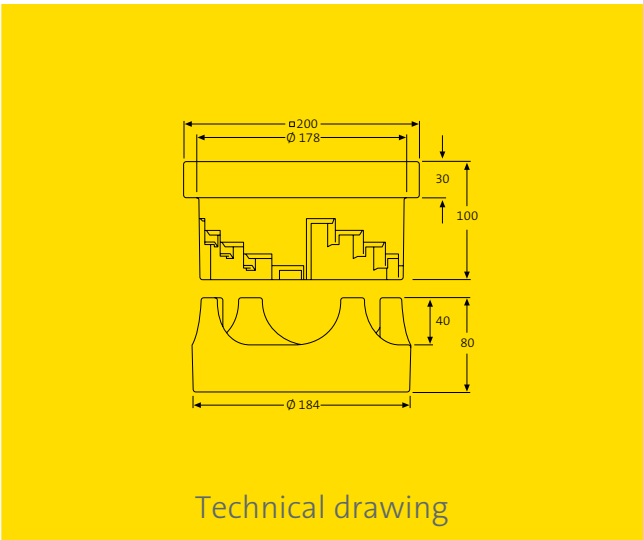
Material: cast iron

Tender specifications

SitaMulti extension unit, made of cast iron, material EN-GJL-200, according to GET (quality assurance drainage technology) and DIN EN 1253, for insulation thicknesses of 80 to 300 mm. With internal lugs for receiving the stacking frame, drill holes for mounting the extension unit in the substructure, with loose flange according to DIN 18195 with seepage openings, two sealing sleeves, six screwed-in M12 threaded rods made of stainless steel, washers, hex nuts made of brass and protective caps for clamping in bitumen, plastic or rubber waterproofing membranes. Complete, including multiple-lipped angled sealing ring for backflow protection, supplied and professionally installed.



SitaMulti grating frame



Technical drawing

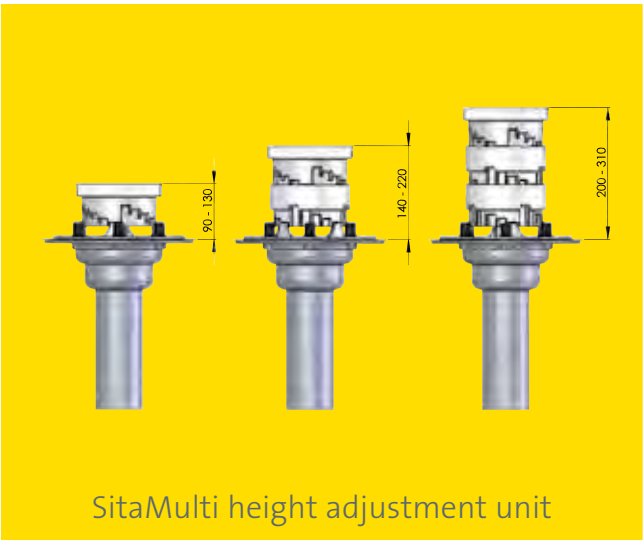
Tender specifications

SitaMulti grating frame, made from cast iron, material EN-GJS-500-7, according to GET (quality assurance drainage technology) and DIN EN 1253. Consisting of frame, support ring and screwed end grid. Height adjustment from 90 to 130 mm. Delivered and installed professionally.

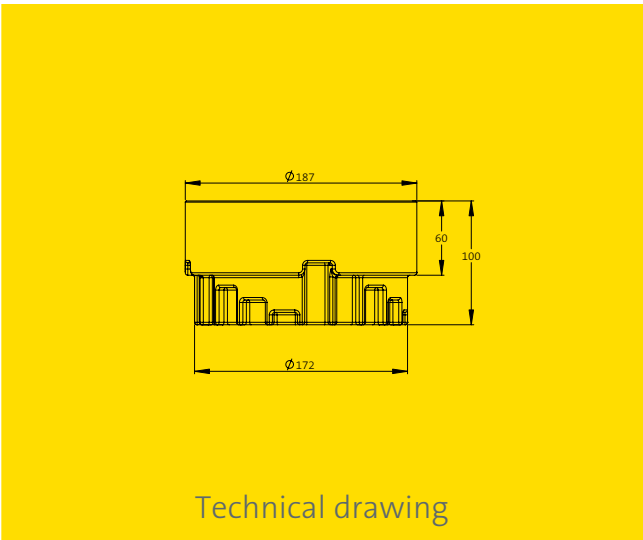
SitaMulti grating frame

Height from-to (mm)	Article number
90–130	11 90 60

Material: cast iron



SitaMulti height adjustment unit



Technical drawing

Tender specifications

SitaMulti height adjustment unit, cast iron, material EN-GJS-500-7 for additional height adjustment of the SitaMulti grating frame. Delivered and installed professionally.

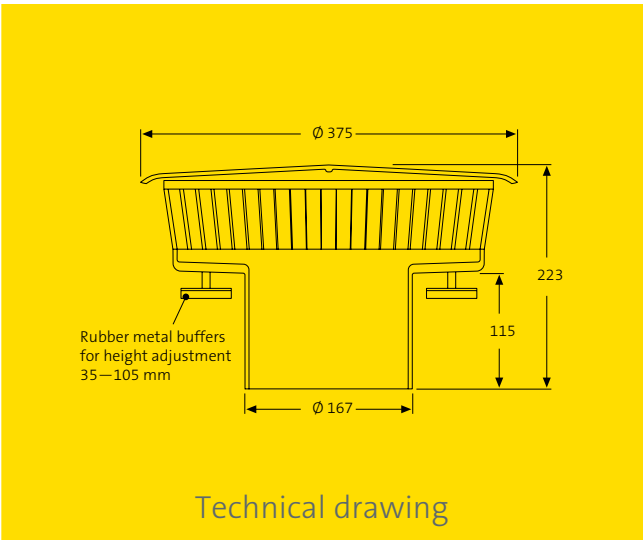
Height and article number

Number	Height from-to (mm)	Article number
1	140–220	E11 90 66
2	200–310	

Material: cast iron



SitaRetaining element



Technical drawing

Damming height and article number

Damming height from-to (mm)	Article number
*35–105	10 90 01

*In the case of damming heights of 35-50 mm it is necessary to shorten the threaded rods of the drain and extension element.

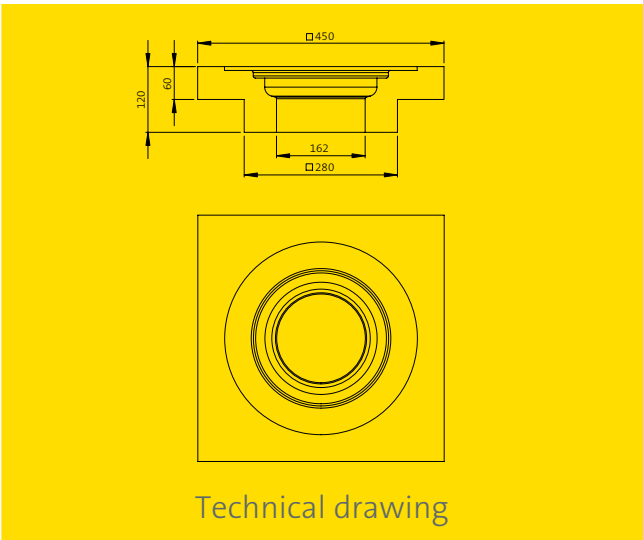
Flow rates according to DIN EN 1253 in l/s

SitaMulti with SitaRetaining element													
Head of water													
DN	5	10	15	20	25	30	35	40	45	50	55	60	65
80	0,5	1,6	2,6	4,0	5,4	7,1	8,7	10,6	12,5	14,7	16,8	17,6	18,4
100	0,9	2,2	3,4	4,9	6,4	8,1	9,8	12,1	14,3	16,9	19,4	23,3	27,2
125	1,0	2,3	3,5	5,0	6,4	8,3	10,2	12,4	14,5	17,1	19,7	25,9	32,1
150	0,6	1,9	3,2	4,6	5,9	7,7	9,5	11,6	13,7	16,5	19,3	26,4	33,4

Material: polyamide

Tender specifications

SitaRetaining element, polyamide, for SitaMulti roof outlets and extension unit, for emergency drainage, with multiple-lipped angled sealing ring to seal the retaining element with respect to the roof outlet or the extension unit. With three continuously height-adjustable rubber metal buffers, installation surface per foot: 19.6 m², with zinc-plated threaded rod M 8 x 90 mm, with closed screw cover that can be removed for inspection purposes, housing with 51 circumferential ridges, in the signal colour yellow. Damming heights continuously adjustable from 50-105 mm, with a large hopper head to increase the drainage capacity, supplied in full and professionally installed.



Height and article number

		Height (mm)	Article number
		120	E40 90 03

Material: cellular glass

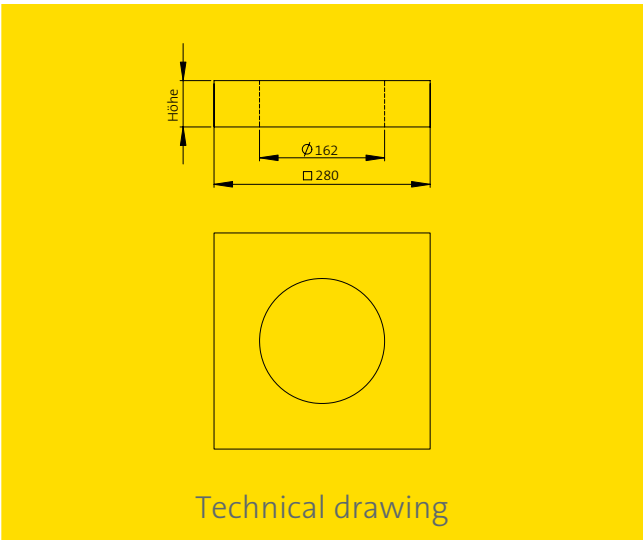


Tender specifications

SitaMulti insulating body type A, cellular glass, WLG 040 for thermal insulation of the SitaMulti roof outlet in the concrete slab, 120 mm height, can be used as lost formwork when concreting-in, delivered and installed professionally.



SitaMulti compensating ring
for insulating body type A

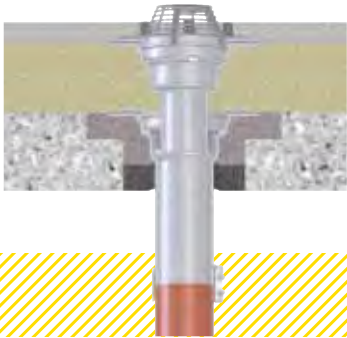


Technical drawing

Height and article number

Height (mm)	Article number
40	E40 90 04
60	E40 90 05

Material: cellular glass

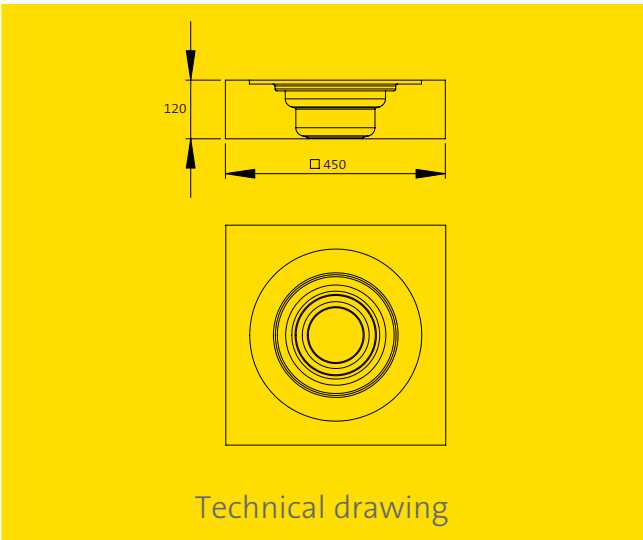


Tender specifications

SitaMulti compensating ring for insulating body type A, cellular glass, WLG 040, 40 mm or 60 mm height. For the thermal insulation of the SitaMulti roof outlet in the concrete slab at heights above 120 mm, delivered and installed professionally.



SitaMulti insulating body type B



Technical drawing

Height and article number

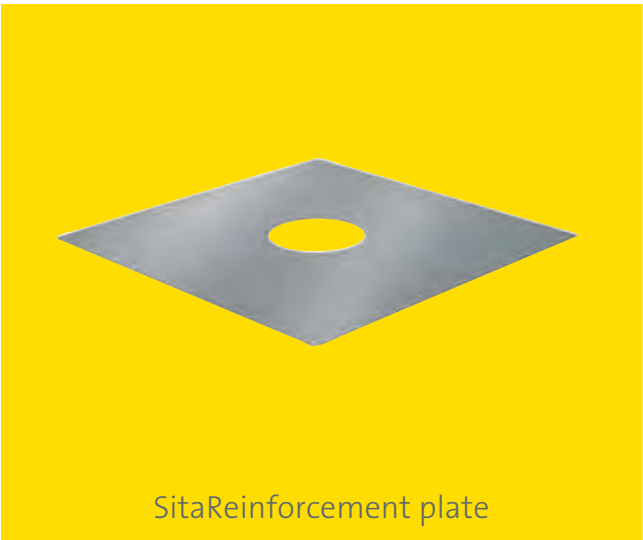
Height (mm)	Article number
120	E40 90 06

Material: cellular glass

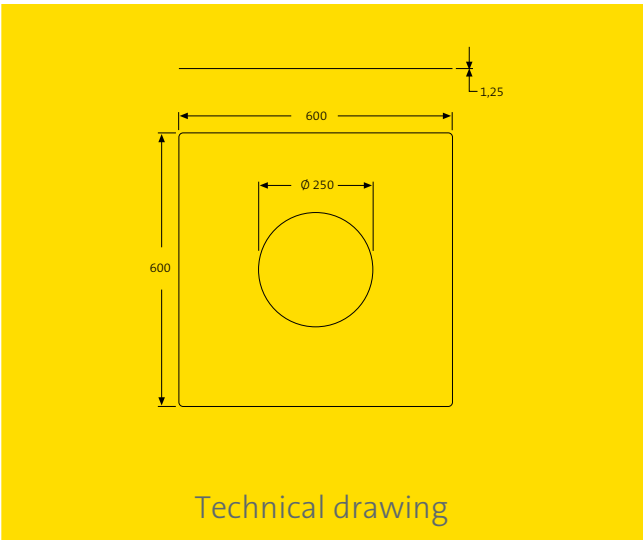


Tender specifications

SitaMulti insulating body type B, cellular glass, WLG 040 for thermal insulation and holding the extension unit, as well as the SitaMulti DN 100 in conjunction with the SitaMulti Ground plate 120 mm high, delivered and installed professionally.



SitaReinforcement plate



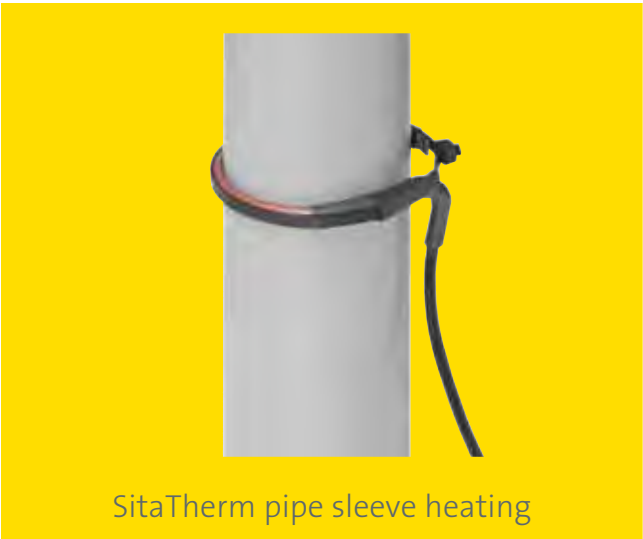
Technical drawing

Tender specifications

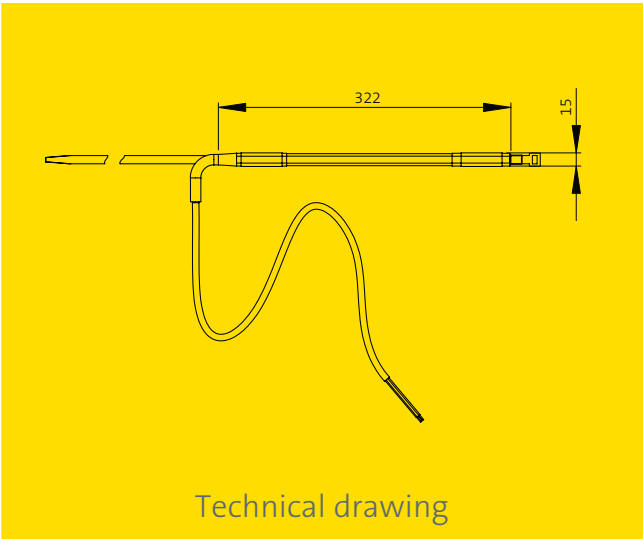
SitaReinforcement plate, according to DIN 18807 made of strip-galvanized steel sheet. Thickness 1.25 mm, for reinforcing small penetrations in steel trapezoidal profile roofs, delivered and professionally installed.

Model and article number

For model	Article number
SitaMulti	10 90 00



SitaTherm pipe sleeve heating



Technical drawing

Tender specifications

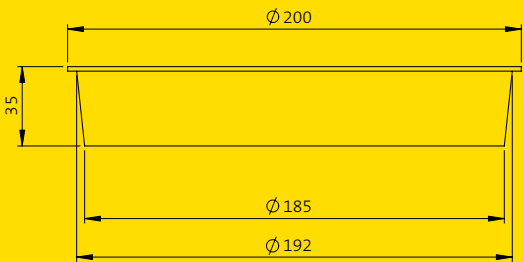
SitaTherm pipe sleeve heating, for heating roof outlet and pipes, self-regulating PTC heating element with a heat output of approximately 10 watts at -20°C and 230 volts with two cable ties for easy attachment to pipes or roof gullies. No transformer is required. Delivered and installed professionally.

Power Supply and article number

Power Supply	Article number
230 V (approx. 10 watts)	10 90 35



SitaMulti construction
period protective cover



Technical drawing

Tender specifications

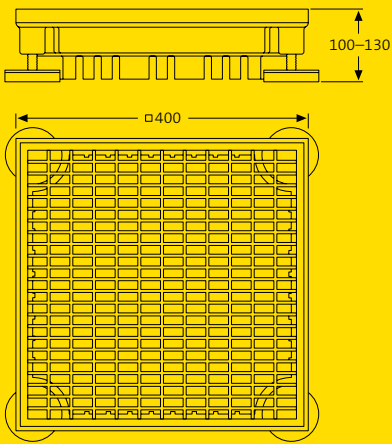
SitaMulti construction period protective cover, inserted in the drain body it prevents the penetration of objects during the construction period.

Model and article number

For model	Article number
SitaMulti	E40 90 10



Sita green roof shaft



Technical drawing

see also Sita Drainage

Tender specifications

Sita green roof shaft, made of polyurethane, with hot dipped galvanised top grating, mesh size 9 mm x 32 mm and four height-adjustable rubber feet, for continuous height adjustment from 100-130 mm, supplied and professionally installed.

Height adjustment, dimensions and article

Height adjustment (mm)	Dimensions (mm)	Article number
100–130	400 x 400	23 00 40

Connection sleeves for roof outlets with article end-numbers

For the series: SitaStandard, SitaTrendy, SitaDSS Pro, SitaEasy, SitaEasy Plus, SitaSani®, SitaSani® Spezial, SitaCompact, SitaMini and SitaVent pipe.

Sleeves from the **series production**

Product/trade name	Article No.-End number	type
Bitumen	00	Elastomerbitumen
PVC soft	10	PVC – light grey

Sleeves from the **special production**

Delivery time up to 8 working days

8,00 € gross surcharge per unit.

Product/trade name	Article No.-End number	type	manufacturer
Alkortec®	05	EVA – dark grey	Renolit AG
Alkortop®	41	FPO – light grey	
Austroplan	38	FPO – light grey	Agru Kunststofftechnik GmbH
Atlantic FPO	63	FPO – dark grey	
Atlantic FPO	64	FPO – light grey	Bailey Roofing Systems
Evalastic	22	EPDM – dark grey	
Evalon	25	EVA – white	Alwitra GmbH
Evalon	37	EVA – light grey	
Extrapol	32	FPO – light grey	Schedetal Folien GmbH
Firestone UltraPly	42	FPO – grey	Firestone Building Products
Firestone SA Flashing	03	EPDM – black	
Flagon EP/S	31	FPO – sand grey	SOPREMA-KLEWA GmbH
Inofin	21	FPO – grey	Wolfin Bautechnik
Mapeplan	06	PVC – light grey	Mapei GmbH (DE)
Mapeplan-T	04	FPO – light grey	
NOVOPROOF®	60	EPDM – black	DURAPROOF technologies GmbH
O.C. Plan	30	ECB – black	Polyfin AG
Polyfin 4230	16	FPO – light grey	
Resistit	61	EPDM – black	Phoenix AG
Resitrix	01	EPDM – black	
Rhepanol-h	34	PIB – grey	FDT Flachdachtechnologie GmbH & Co. KG
Sarnafil®-TG 66	24	FPO – beige	
Sikaplan® 15G	09	PVC – light grey	Sika GmbH
Sucoflex-C	26	FPO – beige	
Sucoflex	15	PVC – light grey	Huber & Suhner
Tectofin	18	ASA-PVC-P – grey	
Thermofin	02	FPO – silver grey	Paul Bauder GmbH & Co. KG
Thermoplan T	29	FPO – pearl white	
Trocal S	12	PVC – light grey	Sika GmbH
VAEPLAN	35	EVA – grey	Hirler GmbH
VEDAFIN® F	43	FPO – creme white	VEDAG GmbH
Wolfin IB	20	PVC-PBV – black	Wolfin Bautechnik

Our generell terms and conditions apply.

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Published: 03.2012
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