

# SitaTrendy

## Insulated Vertical Rainwater Outlets

### Product Data Sheet



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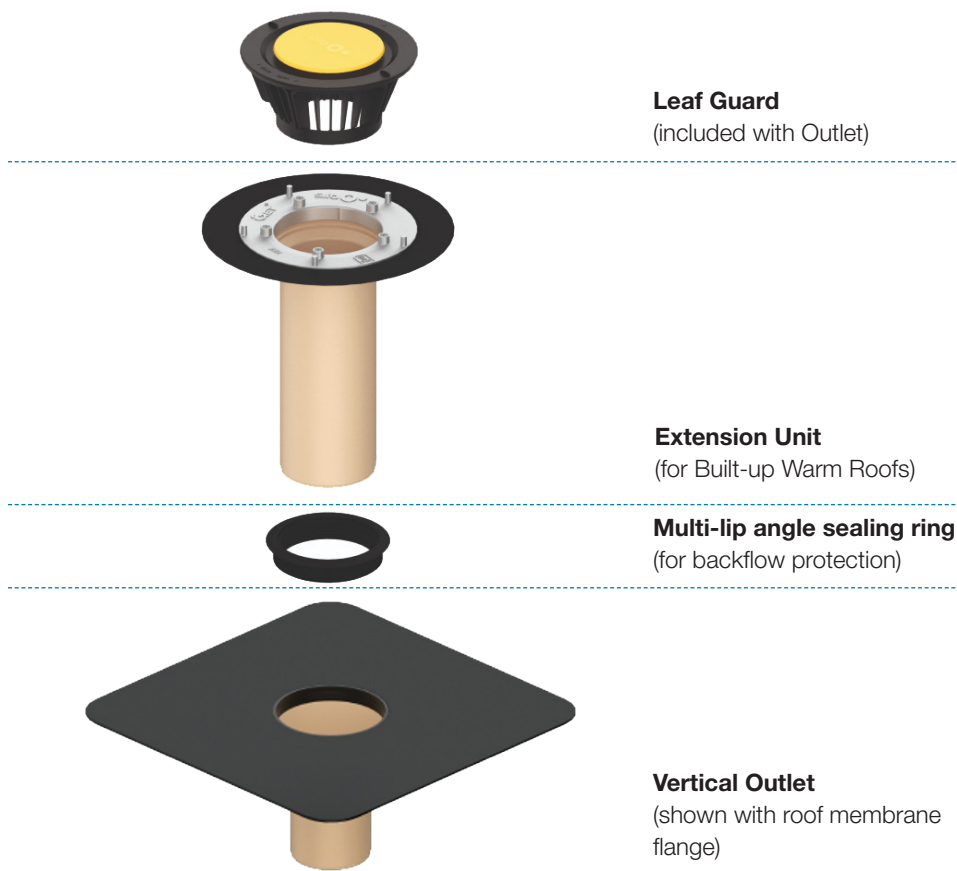
### General Information

**SitaTrendy** rainwater outlets are a robust polyurethane cast construction providing thermal insulation from the surrounding structure which prevents the build-up of condensation to the underside. Units are either factory sealed to a 495 x 495mm connection flange for direct compatibility with Radmat waterproofing systems or provided with a clamping-ring arrangement for mechanical connection to the surround waterproofing system. For cold-applied liquid waterproofing systems the membrane is bonded directly onto the polyurethane outlet body.

### Features and Applications

- Suitable for Built-up Warm, Inverted and Cold Roof applications
- Thermally insulated body to DIN EN 1253-2
- High discharge rate of up to 6.1 l/s to BS EN 12056-3:2000
- Homogeneous roofing membrane connection or aluminium clamping flange arrangement
- Available in sizes DN 70 (75mm), DN 100 (110mm)
- Weather Resistant (UV/IR radiation, rain/snow, temperature, ozone, etc.)
- Impact and shock resistant
- Includes Dome Grate / Leaf Guard
- Easy to install

### Component Family

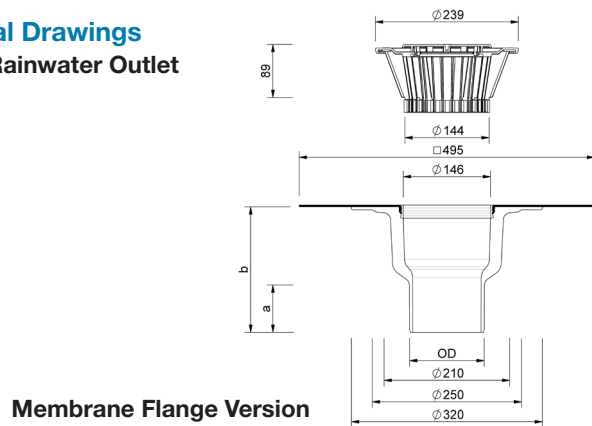


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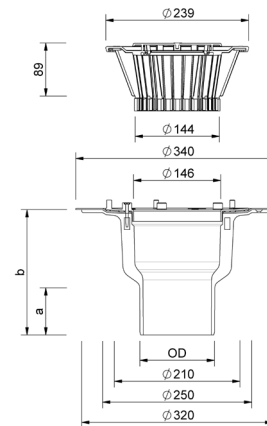
## Insulated Vertical Rainwater Outlets

### Technical Drawings

#### Vertical Rainwater Outlet



Membrane Flange Version

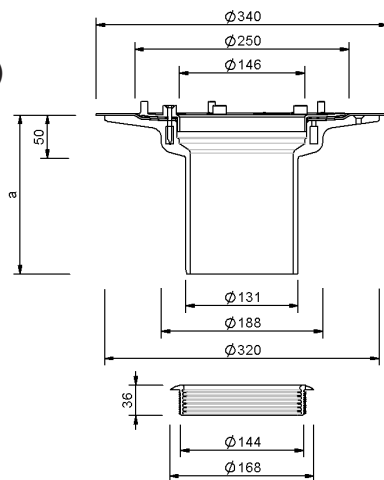


Clamp Ring Version

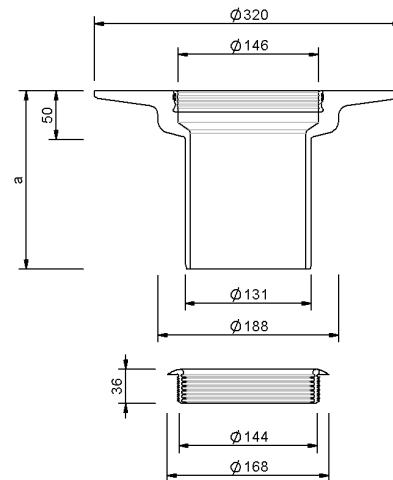
SIZE DN	OD*	a (mm)	b (mm)	DECK OPENING (mm)	PRODUCT REF (BITUMEN FLANGE)	PRODUCT REF (CLAMP RING)
70	75	63	210	250	10 02 00	10 02 99
100	110	75	210		10 04 00	10 04 99

\* OD = Outer Diameter (mm)

#### Extension Unit (Built-up Warm Roofs)



Extension Unit with Clamp Ring Version



Extension Unit Fluid (for Cold Liquid-Applied Membranes)

a (mm)	INSULATION THICKNESS RANGE (mm)	PRODUCT REF (CLAMP RING)	PRODUCT REF (FLUID FLANGE)
185	60 - 150	15 25 99	15 25 90
255	60 - 220	15 26 99	15 26 90
355	60 - 320	15 27 99	15 27 90

Where **insulating body** is not used a suitable timber support frame should be assembled to support the outlet or extension unit.

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### Optional Components



For a rapid and professional installation, a 500 x 500 x 60mm pre-formed **insulating body** manufactured from Polyurethane (PUR) insulation which eliminates the need for mechanical fixings through the Extension Unit element on built-up warm roof constructions, further minimising potential cold-bridging. Thermal resistivity 0.025 W/mK, compressive strength 200kPa.

**Product Ref. 15 90 06**

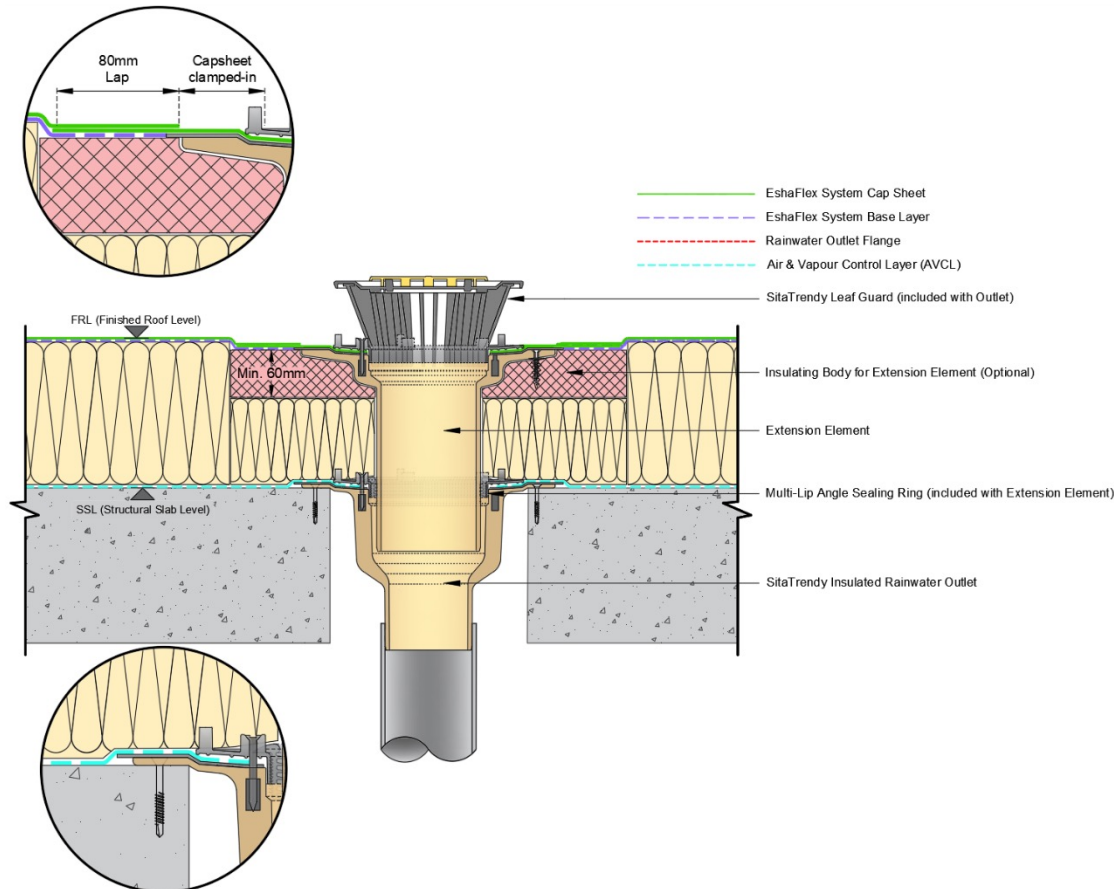
For installation on profiled metal decks, a prefabricated galvanised steel **reinforcement plate** measuring 600 x 600 x 1.25mm. To be mechanically fastened to deck crowns at minimum 120mm centres.

**Product Ref. 10 90 00**

### Connection to surrounding Pipework:

- uPVC "O" ring socketed soil grade pipe to BS 4514: 1983. Connection can be made directly, or with heat-shrink adaptors where necessary.
- Socketed and socket-less cast-iron pipework to BS 416:1973 and EN 887. Socketed pipework will require cold caulking or PVC to cast iron adaptors.
- Socket-less pipework can be connection using an appropriate mechanical coupling.
- HDPE, PP or Stainless Steel pipework with appropriate mechanical coupling.

### Installed Example in EshaFlex 2-Layer System



### Technical Data

ELEMENT: INSULATING VERTICAL RAINWATER OUTLET Characteristic	Value
<b>Material</b>	<b>To DIN EN 1253-2</b>
Outlet Body	Polyurethane
Leaf Guard	Polyamide
Clamping Range (where specified)	Aluminium
Membrane Flange	SBS Bitumen (standard)
Fire Classification	Euroclass E to BS EN 13501-1
Temperature Resistance Minimum	-40°C
Temperature Resistance Maximum	80°C
Depth of Unit including Spigot	258 mm
<b>Bitumen Membrane Flange: (where specified)</b>	
Dimensions	495 x 495 mm
Upper Finish	Thermofusible polyethylene film (Torch-receivable)
Lower Finish	Fleece-backed – bond with Radmat Insta Stik™ Roofing Adhesive
Weight	2.5 kg
Flow Rate	5.5 – 6.1 l/s*

\*Flow rate based on 35mm head of water using calculation methodologies from EN 12056-3:2000 including leaf grate.  
For bespoke project-specific drainage calculations please contact Radmat Technical Department.

ELEMENT: EXTENSION UNIT (ONLY FOR USE ON BUILT-UP INSULATED WARM ROOFS) Characteristic	Value
<b>Material</b>	<b>To DIN EN 1253-2</b>
Outlet Body	Polyurethane
Multi-Lip Sealing Ring	EPDM Rubber
Clamping Ring (where specified)	Aluminium
Membrane Flange	SBS Bitumen (standard)
Fire Classification	Euroclass E to BS EN 13501-1
Temperature Resistance Minimum	-40°C
Temperature Resistance Maximum	80°C
Minimum depth of surrounding insulation	60 mm
Maximum depth of surrounding insulation	320 mm
Dimensions	495 x 495 mm
Weight	2.3 kg
Flow Rate	5.5 – 6.1 l/s*

\*Flow rate based on 35mm head of water using calculation methodologies from EN 12056-3:2000 including leaf grate.  
For bespoke project-specific drainage calculations please contact Radmat Technical Department.

### Technical Data

ELEMENT: INSULATING BODY (FOR EXTENSION UNIT) Characteristic	Value
Material	Polyurethane (PUR)
Dimensions	500 x 500 mm
Depth	60 mm
Fire Classification	Euroclass E to BS EN 13501-1
Thermal Conductivity	0.025 W/mK
Compressive Strength	200 kPa
Weight	1.8 kg

Only for use with Extension Unit on Radmat B<sub>ROOF</sub>(t4) waterproofing systems with combustible insulation.  
See alternative products for Radmat waterproofing systems with non-combustible insulation. Bond insulating body directly to Radmat Air & Vapour Control Layer (AVCL) with Insta Stik™ Roofing Adhesive.

**Rainwater Drainage systems** should be designed and calculated in accordance with *EN 12056-3:2000 Gravity Drainage Systems* & *BS 6229:2018 Flat roofs with continuously supported flexible waterproof coverings – Code of practice*. It is the responsibility of the project engineer to ensure that these standards are achieved and maintained.

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