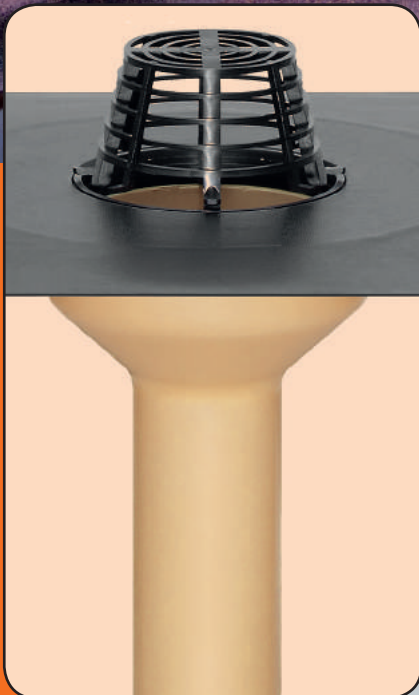
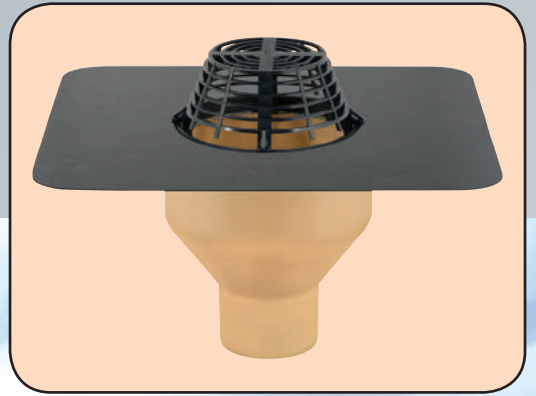


BAUDER



ACCESSORIES

INSULATED RAINWATER
OUTLETS

BAUDER INSULATED RAINWATER OUTLETS

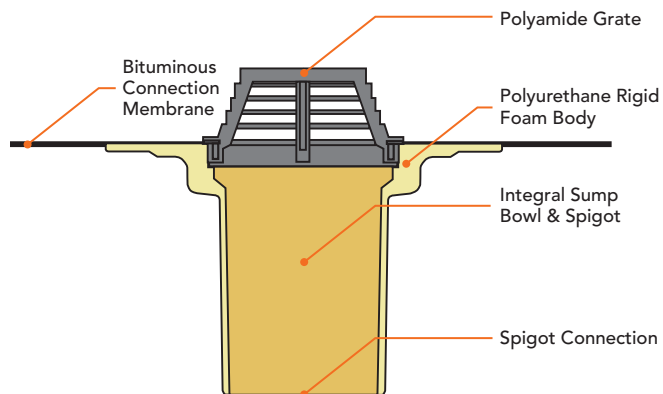
Introduction

Bauder insulated outlets offer a solution to the problem of maintaining thermal continuity at drainage points.

Ideal for warm, cold and inverted roof construction, the high thermal value of the rigid foam body prevents condensation from forming on the underside of the outlet.

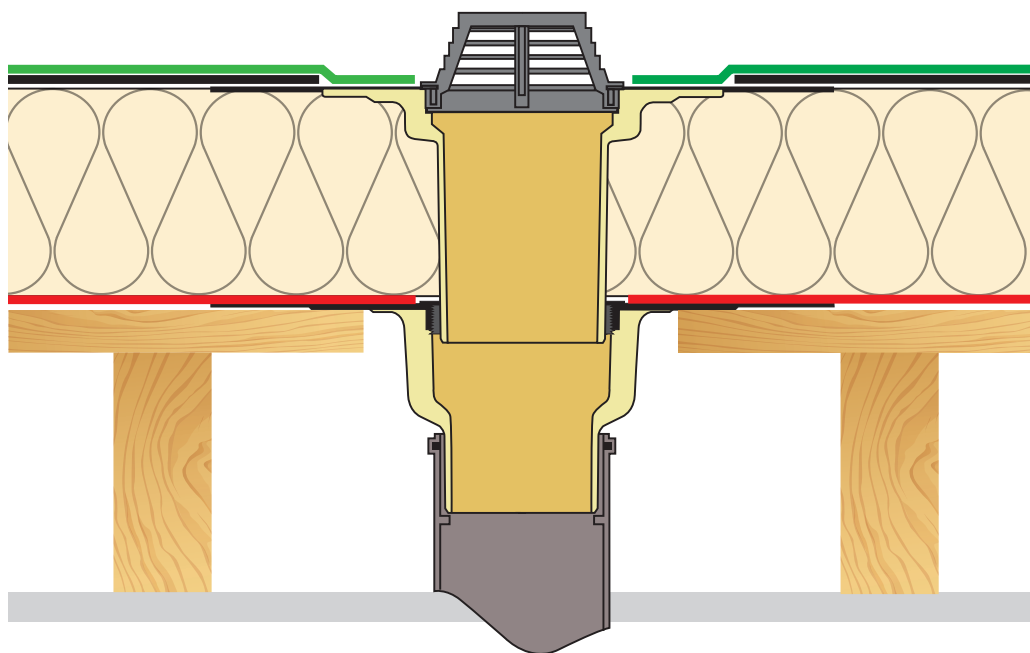
Designed for use when connecting to conventional gravity drainage systems, Bauder Insulated Outlets offer excellent flow rate performance. Our range incorporates products suitable for both new build and refurbishment roof situations.

When specified within Bauder waterproofing systems as an integrated component, these products are included within our Bauder System Guarantee.



Key Features

- Thermally insulated - Manufactured from rigid polyurethane foam
- UV/IR radiation resistant
- Robust and durable
- Shock and impact proof
- Integral bituminous connection flange
- High drainage capacity with low noise
- Installation is fast, simple and very secure



Once the insulation is installed, the extension piece can be fitted.

A special sealing ring inserted into the outlet bowl ensures total waterproof integrity with the extension unit spigot.

The underlayer membrane is installed and torch welded onto the extension unit's integral SBS bitumen membrane connecting flange, followed by the installation of the capping sheet, ensuring complete security.

The benefit of using a two part outlet is that the first section can be installed to the deck, allowing the vapour barrier to be installed and the internal pipe work connected. This provides waterproof integrity and allows internal work to commence.

The second section, the extension unit is fitted over the insulation and then the waterproofing can be installed. This avoids the need for isolation detailing around the outlet and assists with overall 'air tightness'.

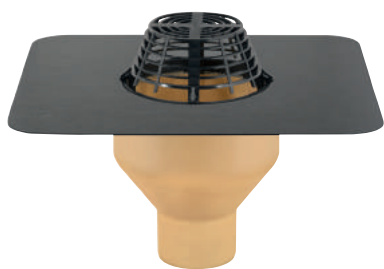
PRODUCTS INFORMATION



Bauder Compact Insulated Vertical Outlet

Supplied in 100 mm (internal diameter) to suit 110 mm internal pipework. These units have a good flow rate and will suit most deck types, but can also be used where the deck construction is shallower, due to the more compact bowl and shorter spigot. It should be used in conjunction with the suitable depth extension unit when specified within warm roof systems.

Extension units available in two spigot lengths according to the insulation thickness specified, either 60 mm - 150 mm or 120 mm - 220 mm. These are always incorporated within warm roof system construction to maintain thermal integrity.



Bauder Standard Insulated Vertical Outlets

Available in both 100 mm and 150 mm (internal diameter) to suit 110 mm and 160 mm internal pipework respectively. These outlets have excellent flow rates and will suit most deck types, but are particularly suited for deeper deck constructions such as concrete (particularly within green roof systems), due to the deeper bowl and spigot length.

Extension units available in two spigot lengths according to the insulation thickness specified, either 80 mm - 160 mm or 120 mm - 220 mm. These are always incorporated within warm roof system construction to maintain thermal integrity.



Bituminous Refurbishment Outlets 63 & 90 mm

These outlets are primarily used for retro-installation, where the removal and installation of a conventional replacement outlet is impractical. Also where the existing outlet cannot be removed and using this outlet, the original can remain in-situ.

Designed to seal to either existing pipework or pass through existing rainwater outlets (where this is practical) to seal to the existing pipework. Both come with a robust flexible seal for ensured reliability.

These outlets are designed for use with warm roof system overlays, where additional insulation is intended. These are not suitable for cold or inverted roofs.

There are two versions available. The 63 mm is designed for use with existing 75 mm (3") pipework/outlets and a minimum of 70 mm additional insulation is required. The 90 mm is used with existing 100 mm pipework/outlets and a minimum of 100 mm additional insulation is required.

Both outlets have extra-long spigots that can be cut down to suit the particular installation method.



Bituminous Parapet Outlet

Suitable as a secure through chute to external hopper drainage when used in conjunction with the 110 mm connection pipe, as an alternative to traditional lead chute fabrication.

A flexible vapour barrier seal component should be used as part of the waterproofing installation when a warm roof design is specified, where insulation is incorporated on the vertical abutment.

TECHNICAL INFORMATION

PRODUCT SELECTOR	Compact Outlet 100 mm	Standard Outlet 100 & 150 mm	Refurbishment Outlet 63 & 90 mm	Parapet Outlet 100 mm
Bitumen connection flange	✓	✓	✓	✓
Insulated extension available	✓	✓		
Suitable for internal drainage	✓	✓	✓	
Suitable for external drainage				✓
Suitable for new build drainage	✓	✓		✓
Suitable as a replacement outlet	✓	✓		
Suitable for retro-fit installation			✓	
Suitable for shallow deck construction	✓		✓	
Suitable for deeper deck constructions		✓	✓	

DRAINAGE FLOW RATES	
Outlet type	Flow rates (litres/sec)
Bituminous Parapet Outlet (horizontal)	0.6
Refurbishment Outlet 63 mm (for pipes/outlets 68 - 86 mm)	6.1
Refurbishment Outlet 90 mm (for pipes/outlets 98 -107 mm)	6.9
Bituminous Outlet 100 mm	6.1
Bituminous Standard Outlet 100 mm	7.4
Bituminous Standard Outlet 150 mm	7.2

*Above figures based upon a 35 mm head of water pressure - according to BS EN 1206:3:2000

Connection to Pipework

Our vertical spigot outlets are suitable for connection to:

- Socketed and socket-less cast iron pipework to BS416: 1973 and EN887. Please note that socketed pipework will require cold caulking or the use of PVC to cast iron adapters.
- HDPE pipes with appropriate proprietary coupling.
- PVC 'O' ring socketed soil grade pipework to BS 4514: 1983. Connection can be made directly or using shrink adapters where required.

BAUDER

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