

Bauder Bitumen Parapet Outlet DN 100 including pre-assembled pipe & dome grate

V3 17.11.2022

Product description	A thermally insulated cast polyurethane rainwater outlet with horizontal spigot giving thermal continuity. The outlet comes with a pre-attached bituminous flange to ensure waterproofing integrity between the outlet and membranes. Outlet has a flow rate of 0.7 litres/sec based upon requirements of BS EN 12056:3:2000.	
Application fields	For use with Bauder bituminous waterproofing membranes when used as a through chute to external drainage via externally connected pipework or otherwise to a hopper head and downpipe. The product is designed to be used in warm, cold, and inverted roof scenarios. When used in a warm roof scenario, there are two methods of detailing, with the method used being dependent upon the insulation depth required. Warm roof upstands also require the use of the Parapet Outlet Flexible AVCL Seal. A sump can be formed in front of the outlet to give improved drainage performance.	
Article Number	Bitumen Parapet Outlet DN 100 Bitumen Flexible AVCL Seal	GB60265120 GB60265055



Characteristic – Parapet Outlet and pipe connection	Unit	Value
Length of outlet including pre-assembled pipe	mm	567
Length of pipe (excluding outlet and pipe head)	mm	500
Width of pipe connection head	mm	67
Width of outlet opening	mm	100
Width of outlet (external)	mm	110
Width of outlet body	mm	110
Outer diameter of pipe connection head	mm	130
Width of bituminous flange	mm	495
Length of bituminous flange onto vertical surface	mm	250
Length of bituminous flange onto horizontal surface	mm	245
Angle of spigot and pipe	°	3
Flange surface finish (bottom)	-	fleece
Flange surface finish (top)	-	bitumen with a polyethylene film
Weight	kg	2.83
Flow rate performance	litres/sec	0.7*
*Flow rate performance data using a 35mm head of water (including leaf grille), based upon requirements of BS EN 12056:3:2000. Further flow rate performance data can be obtained within this document. For bespoke drainage calculation performance data, please contact Bauder Limited.		
Characteristic – Bituminous Flexible AVCLSeal	Unit	Value
Length of flexible seal flange	mm	352
Width of flexible seal flange	mm	352
Diameter of outer seal opening	mm	136
Diameter of inner seal opening	mm	122
Diameter of seal opening	mm	96
Thickness of seal	mm	27
Flange surface finish (bottom)	-	neoprene
Flange surface finish (top)	-	neoprene
Weight	kg	0.7

Technical data sheet

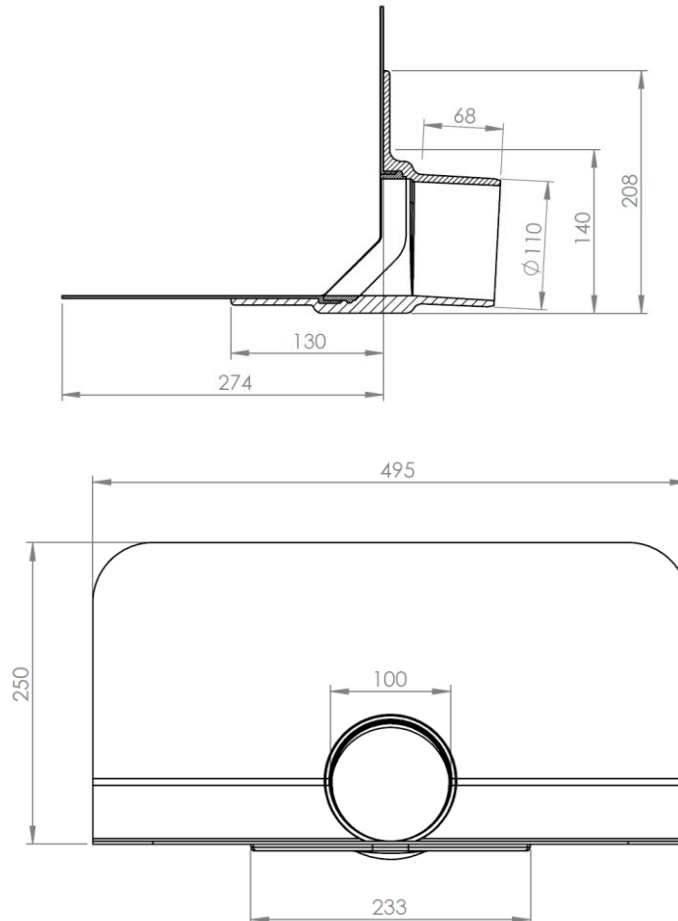
Storage guidance	Store under cover. Outlet bituminous flanges that have become wet must be allowed to fully dry out naturally before use. The leaf grille will be supplied with the outlet itself. Please see detail drawing below.
Packaging material	The outlet will be delivered in a cardboard box (readily recyclable). The flexible AVCL seal will be delivered separately (where ordered) within a low-density polyethylene bag (readily recyclable), which weighs 46 grams.
Handling/PPE	All persons using the product should be fully aware of the manual handling methods as roofing materials are heavy and can cause serious injury. When using the product, installers should be provided with, and wear, suitable personal protective equipment.
Disposal guidance	Disposing of any waste material must be carried out in accordance with national regulations.
Further information/ documents	Current documents such as brochures, installation guides, etc. can be found by visiting www.bauder.co.uk

International Standards Organisation (ISO)

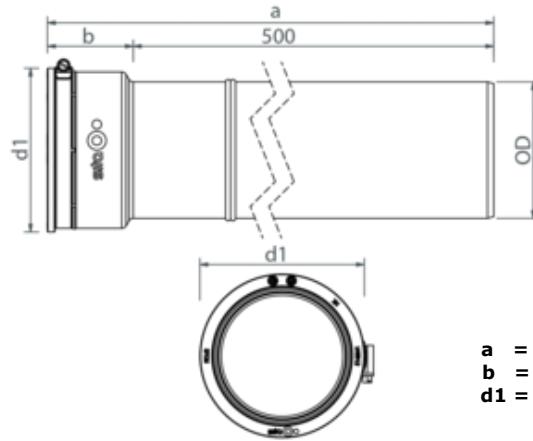
ISO 9001:2015 Quality Management
Certificates EN1271 (UK)

ISO 14001:2015 Environmental Management Certificates
A10552 (UK)

Dimensions of the parapet outlet and pipe:

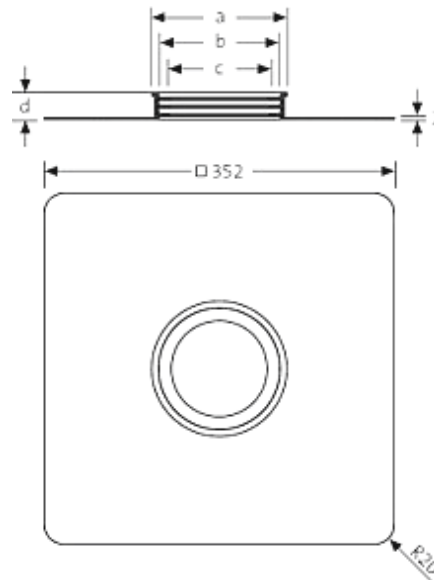


Technical data sheet



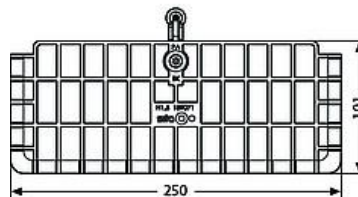
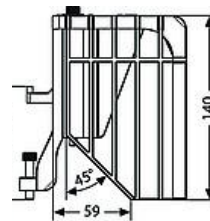
a = 567 mm
b = 67 mm
d1 = 130 mm

Dimensions of the flexible AVCL seal:



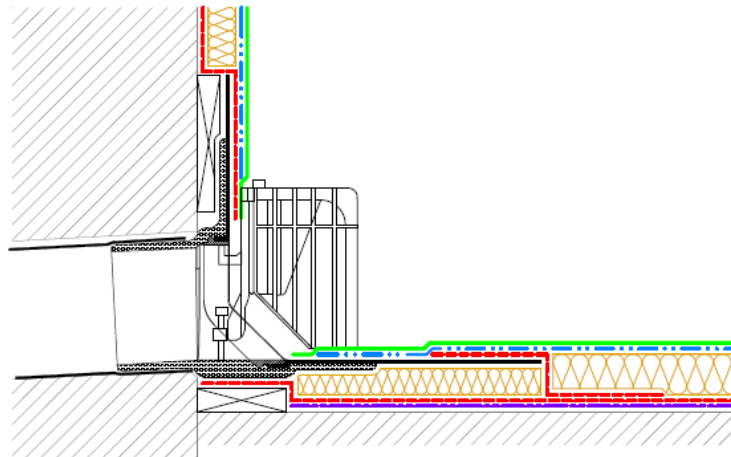
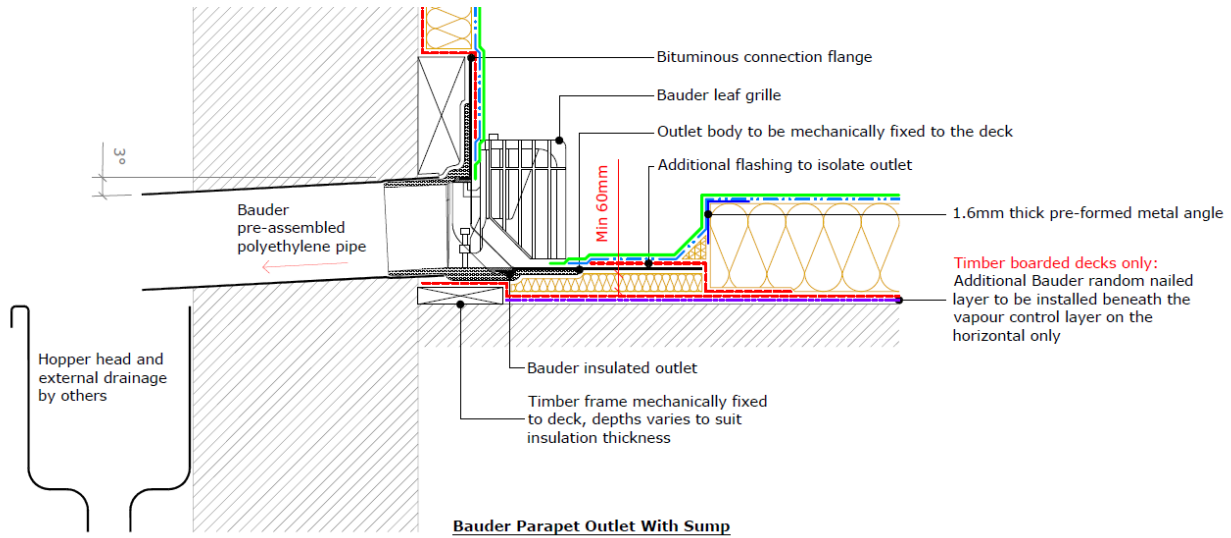
a = 136 mm
b = 122 mm
c = 96 mm
d = 27 mm

Dimensions of the dome grate:



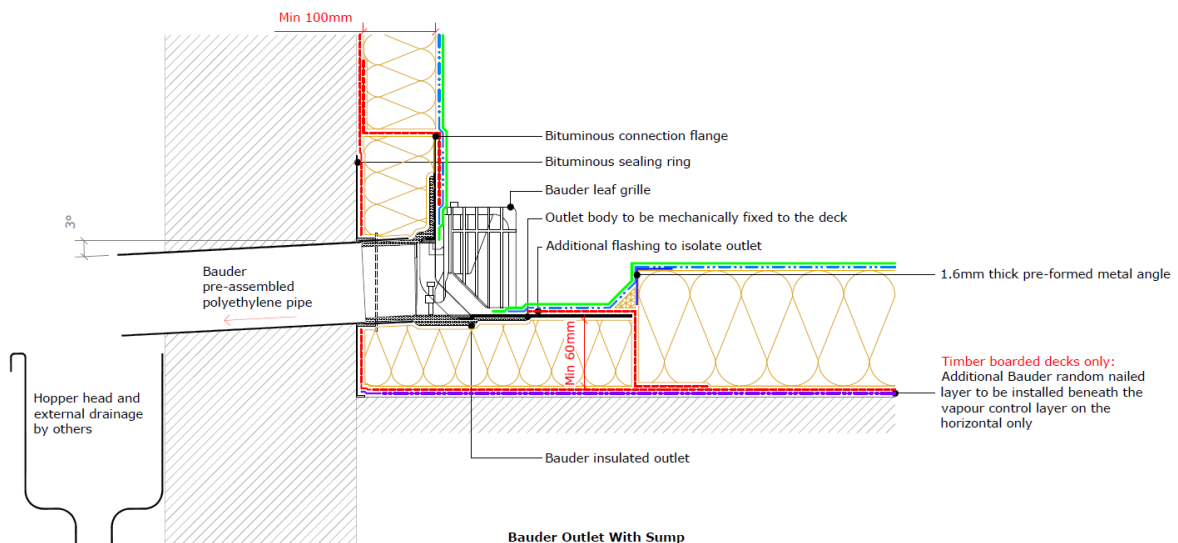
Technical data sheet

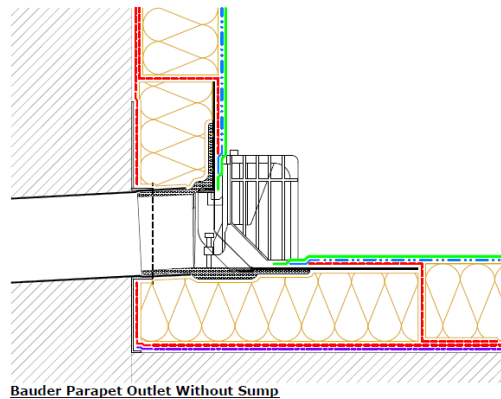
Detail drawings for upstand insulation thicknesses between 30 & 100mm:



Bauder Parapet Outlet Without Sump

Detail drawings for upstand insulation thicknesses above 100mm:





Bauder Parapet Outlet Without Sump

Installation Guidance and data: Please refer to the Bauder Installation Guide and project specification for guidance.

Fixing:

The AVCL flexible sealing plate, featuring a large flexible neoprene flange, is adhered to the prepared upstand and then the AVCL applied to form a complete seal. The Parapet and pre-assembled through pipe need to be inserted through the insulation and vapour barrier seal for the roof side. A lubricant is enclosed with each carton provided to ease installation.

The bituminous connecting flange allows full homogeneous sealing between the outlet unit and the Bauder waterproofing system. The unit features an integral sump and spigot, and the installation process is simple, robust and very secure. The spigot comes pre-assembled with a secure and robust connection pipe for ease of installation and added piece of mind for a watertight connection.

The polyamide domical dome grate permits free flow of water, whilst preventing leaf litter or other debris from entering the outlet. This push fit grate is easily removed to allow for rodding.

Pipe connection:

The Bauder Bitumen Parapet Outlet is suitable for connection to 110 mm uPVC "O" ring socketed soil grade pipe to BS 4514: 1983.

It can also be connected to externally fixed 110 mm pipework with suitable connector but should remain accessible for maintenance. We do not recommend this outlet for use within concealed and inaccessible internal pipework.

Should there be a need to disconnect the pre-assembled pipe for any reason, this will have to be re-fitted and tightened to a torque of 3Nm to ensure a robust connection is established.

Connectivity to below deck drainage pipework to be the responsibility of the plumbing contractor/drainage engineer.

Drainage performance of the Bitumen Parapet Outlet DN 100:

The figures below are based upon the requirements of BS EN 12056: 3: 2000 and performances are given within 1/3 rainwater pipe capacity limits as required by BS EN 12056.

Flow rates are typically taken using a 35 mm head of water (including leaf grille), which for the Bitumen Parapet Outlet DN 100 gives a flow rate performance of 0.7 litres/sec.

Size	Head of water (mm)							
	30	35	40	45	50	55	60	65
100 DN (to pipework)	0.5	0.7	1.0	1.3	1.5	1.8	2.0	2.3
100 DN (to external hopper)	0.5	0.7	1.0	1.0	1.3	1.5	1.8	2.0

To utilise a higher flow rate, the forming of a sump in front of the parapet outlet can aid with this, increasing the head of water, meaning a possible reduction in the number of parapet outlet units required.

When designing a rainwater scheme, the following considerations should apply:

Always make provision for an additional back-up outlet to ensure that the roof will continue to drain in the event of a blockage, even if a single outlet is deemed to have sufficient flow to drain the area concerned.

Allow a safety factor of 10% above the published maximum outlet capacity to take account of greater than designed storm intensities.

Check that all outlets are correctly installed before completion or handover.

Check that all pipe connections are secure and that the leaf grilles are fitted.

All rainwater outlets should be inspected twice yearly for blockages and to clean out the outlets and remove any debris or leaf litter as part of the routine maintenance schedule.

Safety Data Sheets are designed to provide the necessary information to recipients of substances and mixtures in the EU & UK. This product is classed as an article; therefore, this product does not have a requirement for a Safety Data Sheet.