

Bauder Bitumen Vertical Refurb Outlet DN145 with s/s leaf guard & mechanical seal V1 31.07.2023

Product description	A stainless-stee	l rainwater outle	t with vertical spigot. Factory bonded				
	membrane flang supplied with a	e attached to the outlet allows for ease of installation. Also stainless steel leafguard and mechanical seal. v rate of 5.48 litres/sec based upon requirements of					
Application fields	For use with Bauder bituminous waterproofing membranes when connecting into conventional gravity drainage systems. The product is designed to be used in refurbishment roof scenarios. The spigot when fitted into an existing outlet using the mechanical seal, will accommodate internal diameters ranging from 146 to 168mm.						
Article Number	Bitumen Vertica Mechanical sea		ON145 GB14120290 GB14120300				
Characteristic - outlet		Unit	Value				
Length of outlet including spigot		mm	400				
Diameter of spigot (external)		mm	145				
Width of bituminous flange		mm	500				
Length of bituminous flange		mm	500				
Thickness of bituminous flange		mm	2.7				
Flange surface finish (bottom)		-	bitumen				
Flange surface finish (top)		-	mica				
Outlet and flange combined weight		kg	2.3				
Flow rate performance		litres/sec	5.48*				
Characteristic – leaf guard Width		Unit mm	Value 210				
Length		mm	210				
Height		mm	43				
To suit pipe diameter		mm	50 to 160				
Weight		kg	0.28				
Tightening nut		mm	10				
Characteristic – mechanical seal		Unit	Value				
Width		mm	145				
Shape		-	Circular				
Length		mm	105 total length. 50 into outlet.				
To suit existing pipe diameter		mm	146 to 168				
Weight		kg	0.46				
storage guidance			minous flanges that have become wet must be allowed to fully dry out naturall d mechanical seal will be supplied with the outlet itself.				
ackaging material	The outlet will be delivered in a carboard box (readily recyclable). Also, within the cardboard box will be the le guard and seal which will come packaged within a low-density polyethylene bag (readily recyclable), which weighs 29 grams.						
landling/PPE	heavy and ca	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 mate	rial must be carried out in accordance with national regulations.				
TED KINGDOM Bauder Ltd 70 Landseer Road, Ip +44 (0)1473 257671 - E∶ <u>info@bauder.co.uk</u> <u>w.bauder.co.uk</u>	oswich, Suffolk IP3 0DH		Bauder reserves the right to update this data set without prior notice and this documen uncontrolled if printed or stored. Always confirm the latest version is used for the adopt this product, available from our website: bauder.co.uk/technical-centre. Intended use of this product should be verified with Bauder to ensure suitability and compliance with applicable guidance, regulations, legislations, project requirements,				

compliance with applicable guidance, regulations, legislations, project requirements, specifications, and installation techniques.



Further information/ documents

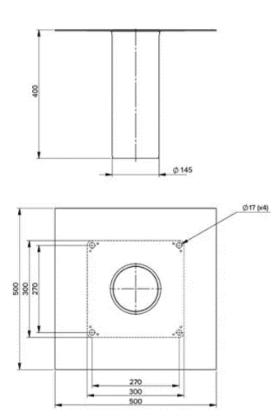
Current documents such as brochures, installation guides, etc. can be found by visiting www.bauder.co.uk

International Standards Organisation (ISO)

ISO 9001:2015 Quality Management Certificates EN1271 (UK)

ISO 14001:2015 Environmental Management Certificates A10552 (UK)

Dimensions:



Leafguard and mechanical seal:





Mechanical seal tightening tool:

- - -



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

Fixing:

The existing pipe bore should be first cleaned to ensure a good seal.

The outlet is to be secured through to the structural deck by a minimum of four fasteners through the fixing points in the steel plate to obtain an adequate attachment to the deck substrate material.



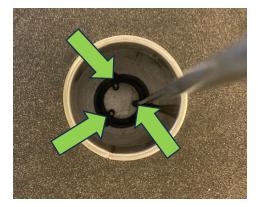
When fixing through existing outlets, the long outlet spigot should extend beyond the spigot of the existing unit to from a seal with the downpipe beyond and should then be cut to the length required.

Insert the thin part of the mechanical seal into the outlet stem:





Tighten the stainless-steel screws using the mechanical seal tightening tool until the top half of the seal has expanded.





The entire component is then placed into the roof drain pipe.

The stainless-steel screws are then further tightened until hand tight which will expand the bottom half of the seal against the drainpipe to ensure a robust seal between the outlet and pipe is achieved.

We would recommend using a suitable silicone lubricant between the seal and pipe to ensure the seal or pipe is not damaged in the process.

Once the outlet has been installed, the leaf guard can be inserted into the outlet opening and tightened with a 10mm spanner/socket, being careful not to overtighten.

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

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Drainage performance of the outlet:

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 guard and mechanical seal), which for the Bitumen Vertical Refurb Outlet DN145 gives a flow rate performance of 5.48 litres/sec.

Head of water (mm)									
Size	6.7	18.6	29.9	35	43.9	51.5	73.8		
145	0.5	2.5	4.2	5.48	7.8	8.8	10.2		

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.

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