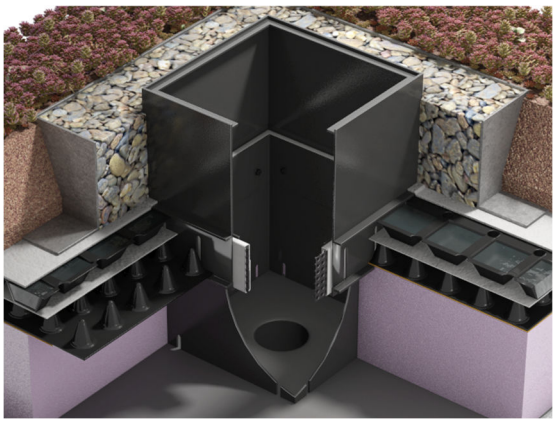
blueroof PP Restrictor Chamber

Data Sheet

ABG **blueroof** restrictor chambers are specially designed and patented, as an integral component of ABG's "blue roof", rainwater attenuation, SuDS system.
Each chamber includes restriction orifices, overflow path, replaceable filter and inspection access for both the orifices and the rainwater outlet.
Chambers are manufactured on a project specific basis to account for differing discharge restrictions, system depths, restrictor position, roof build-up (i.e. inverted, warm or un-insulated), surface finishes and loadings.
The major application is in conjunction with our attenuation layers to control the discharge in line with planning conditions.



Restrictor chamber installed on an inverted roof.

Typical restrictor chamber configuration with base chamber.

Chamber Properties				
Material		PP		
Overflow Height	(mm)	To suit attenuation depth.		
Chamber Height	(mm)	To suit surface finish.		
Discharge rate at H-Max	(l/s)	0.1 – 5.0	Typical range	
Chamber type:		Standard	Parapet	
Width [4]	(mm)	430	430	
Length [4]	(mm)	430	410	

Application Notes

- When installed on a warm or uninsulated roof, a waterproofed sump with minimum dimension of 500mm x 500mm x 15mm deep must be prepared around the rainwater outlet position.
- When installed on an inverted roof a base chamber is required.
- Not intended for foot traffic – chamber to be finished proud of the surface finish, or below paving supported by pedestals, or below an independent manhole.
- Areas directly trafficked by vehicles require independent manhole protection. Please refer to the ABG CAD section for further details.

Filter Geotextile Properties				
Thickness at 2kPa [3]	(mm)	1.2	nominal	EN ISO 9863-1
Tensile strength MD / CMD [3]	(kN/m)	9.5 / 9.5	-13%	EN ISO 10319
CBR puncture resistance [3]	(N)	1 600	-20%	EN ISO 12236
Dynamic perforation cone drop [3]	(mm)	29	+25%	EN ISO 13433
Pore size O_{90}	(µm)	120	±30%	EN ISO 12956
Type and material	Nonwoven needle-punched and heat-treated long staple fibre polypropylene.			

1 The values given are determined from statistical Interpretation of test results obtained in our laboratories and are subject to tolerances. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
2 Final determination of the suitability of any information is the sole responsibility of the user. ABG will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.
3 Thickness, CBR, Dynamic perforation cone drop and Tensile strength are given only to enable rapid CQA checks.
4 Dimensions can be customised to suit project requirements.

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