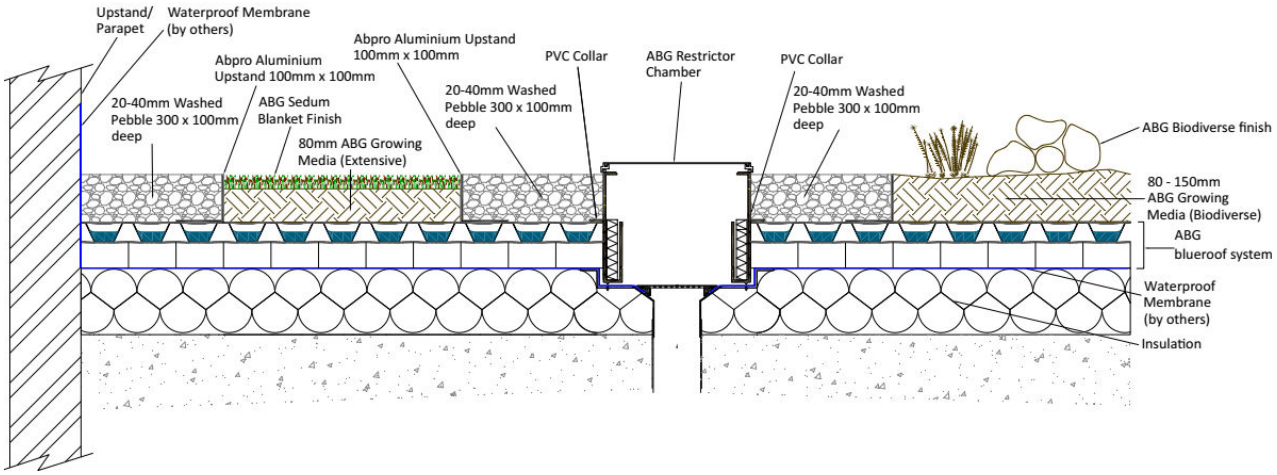
ABG blueroof VF 79 [Res]

Data Sheet

ABG **blueroof** systems provide rainwater attenuation at source, filtration and controlled discharge, contributing to the key elements of a good SuDS design.

The attenuation element of the system must be used in conjunction with the ABG blueroof restrictor chamber. These chambers are bespoke to each project to account for differing discharge restrictions, system depths, restrictor position, roof build-up (i.e. inverted, warm or un-insulated), surface finishes and loadings.

ABG's 'blue roofs' are generally used for zero falls, inverted/warm roof and podium applications, under a mix of hard and soft landscaped finishes. Other combinations of ABG blueroof systems and most surface finishes are available. Please refer to ABG's Technical team for project/system specific advice & 'blue roof' SuDS calculations.



Typical ABG **blueroof** installed on a warm roof with a mixture of sedum and biodiverse finishing.

blueroof VF System Properties				
Thickness at 2kPa	(mm)	79	nominal	
Maximum saturated mass per unit area [6]	(kg/m²)	79	nominal	
Attenuation volume	(l/m²)	64	nominal	
Drainable void space	(%)	86	nominal	
Reservoir Properties				
Reservoir volume	(l/m²)	4.3	nominal	
Upper 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.			
System use and compatible surface finishes				
Suitable for maintenance foot traffic only, PV panels and some small plant installations [4] Green roof and biodiverse roof finishes are possible with the integrated reservoir drainage layer. Hard landscaping, ballast and paving are possible.				

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 Any installations such as plant/services, PV panels, paved areas or additional vehicular/traffic access, must be discussed with ABG prior to their installation/use.
5 Can be used in conjunction with rainwater harvesting & grey water recycling systems. Any petrochemical pollution waste discharged from the system to be treated by others.
6 Additional loading for events exceeding the design storm event should be considered and determined by the hydraulic head required above the blue roof h-max for adequate overflow performance.

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