BLUE ROOF STORAGE AND OUTFLOW ESTIMATE



Project Name:	97 Camden Mews, London NW1 - Terrace Roof Area - Plots 1&2
Prepared for:	Stilwell Ltd, Ash Vale
Date:	15/05/2017
ABG Project ID:	11965
Prepared by:	Andrew Keer; andrew@abgltd.com; 07525-808700
Notes/description:	Terrace/amenity area, for resident/pedestrians only. Pavers on pedestals.

Input Parameters - Rainfall Information		
Return period:	100 years	As supplied by Client
Allowance for Climate Change:	40 %	As supplied by Client
Rainfall ratio, R:	0.41	From statistics based on location (FSR)
M5-60 expected rainfall:	20.6 mm/h	From statistics based on location (FSR)
Location selected for FSR data:	London (NW)	
Input Parameters - Reaf Information		

input Parameters - Roor mormation			
Catchment area:	45 m ²	As supplied by Client	
Storage area:	16 m ²	As supplied by Client	
Maximum allowable runoff:	2.0 l/s	As supplied by Client	

Output - Rainf	fall Calculation			
Duration	Rainfall (l/s/m ²)	Storage Required (I/m ²)	Time to Empty	Restricted Outflow (I/s)
5 mins	0.0602	29	0 hours and 10 minutes	1.6
10 mins	0.0492	39	0 hours and 10 minutes	1.9
15 mins	0.0397	35	0 hours and 10 minutes	1.8
30 mins	0.0260	23	0 hours and 10 minutes	1.3
1 hour	0.0163	14	0 hours and 10 minutes	0.8
2 hours	0.0097	10	0 hours and 10 minutes	0.5
4 hours	0.0057	9	0 hours and 0 minutes	0.3
6 hours	0.0041	8	0 hours and 0 minutes	0.2
10 hours	0.0028	8	0 hours and 0 minutes	0.1
24 hours	0.0014	8	0 hours and 0 minutes	0.1
48 hours	0.0008	8	0 hours and 0 minutes	0.0

Total	storage	required:	0.7 m ³
-------	---------	-----------	--------------------

Output - Recommended Blue Roof	System
System Name:	ABG VF HD 58mm
Description:	
Total storage capacity:	0.8 m ³
Number of Blue Roof outlets:	2

Notes:

1. This document contains an estimate which has been prepared by ABG Ltd and is illustrative only and not a detailed design.

2. Further details on the theories used in this estimate are available upon request from ABG. The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.

3. This estimate is specific to the characteristics of ABG products and may not be applicable to other products.

4. The copyright in this document belongs to ABG Ltd.

5. The estimate given in this report is based on the stated parameters as per the brief. If these parameters are not correct or have changed, ABG should be contacted to provide a revised estimate.

6. No guarantee or liability can be drawn from the information in this report.

7. 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.



