

# BLUE ROOF STORAGE AND OUTFLOW SUMMARY

## PRIVATE & CONFIDENTIAL - NOT FOR DISTRIBUTION

Project Name:	115-119 Camden High Street, London, NW1 7JR - Main Roof		
Prepared for:	Clancy Consulting		
Date:	27/11/2019		
ABG Project ID:	17338	Calculator version:	1.2
Prepared by:	Kirstin Forsythe, 01484 354844, kirstin@abgltd.com		
Notes/description:	Ballasted finish. Maintenance access only. Warm/inverted roof construction, with zero falls.		

### Input Parameters - Rainfall Information (Flood Studies Report 1975)

Return period:	100 years	<i>As supplied by Client</i>
Allowance for Climate Change:	40 %	<i>As supplied by Client</i>
Location selected for FSR data:	London (NW)	

### Input Parameters - Roof Information

Total catchment area:	506 m <sup>2</sup>	<i>As supplied by Client</i>
Attenuation area:	355 m <sup>2</sup>	<i>As supplied by Client</i>
Maximum allowable runoff:	4.3 l/s	<i>As supplied by Client</i>

### Output - Rainfall Calculation

Duration	Time to Empty	Restricted Outflow (l/s)
15 mins	1 hour and 30 minutes	3.7
30 mins	1 hour and 50 minutes	4.1
1 hour	1 hour and 50 minutes	4.2
2 hours	1 hour and 40 minutes	3.8
4 hours	1 hour and 0 minutes	2.6
6 hours	0 hours and 20 minutes	1.5
10 hours	0 hours and 0 minutes	0.4
24 hours	0 hours and 0 minutes	0.2
48 hours	0 hours and 0 minutes	0.1

**Total attenuation required: 22.4 m<sup>3</sup>**

**Half empty time: 0 hours and 50 minutes.**

### Output - Recommended Blue Roof System

System Name:	ABG bluerroof 80mm
Description:	No.of control positions TBC by design team, and also with the structural engineer's deflection analysis.

Total attenuation capacity:	23.0 m <sup>3</sup>
Number of Blue Roof outlets:	2

#### Notes:

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Blue Roof Estimate

