

Project Name:	150 Holborn, EC1N 2NS - Terrace 6th Floor - FSR Data
Prepared for:	CNM, London
Date:	29/01/2018
ABG Project ID:	12854
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Notes/description:	Pedestrian only amenity/terrace area. Pavers on pedestals. *FOR DISCUSSION ONLY*

Input Parameters - Rainfall Information (Flood Studies Report 1975)

Return period:	100 years	As supplied by Client
Allowance for Climate Change:	40 %	As supplied by Client
Rainfall ratio, R:	0.43	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 (Central)	

Input Parameters - Roof Information

Catchment area:	312 m ²	As supplied by Client
Storage area:	228 m ²	As supplied by Client
Maximum allowable runoff:	3.0 l/s	As supplied by Client

Output - Rainfall Calculation

Duration	Rainfall (l/s/m ²)	Storage Required (l/m ²)	Time to Empty	Restricted Outflow (l/s)
15 mins	0.0416	50	1 hour and 30 minutes	2.7
30 mins	0.0268	57	1 hour and 40 minutes	2.9
1 hour	0.0163	56	1 hour and 40 minutes	2.9
2 hours	0.0095	42	1 hour and 20 minutes	2.5
4 hours	0.0055	19	0 hours and 40 minutes	1.5
6 hours	0.0039	8	0 hours and 10 minutes	0.6
10 hours	0.0026	5	0 hours and 0 minutes	0.2
24 hours	0.0013	5	0 hours and 0 minutes	0.1
48 hours	0.0007	5	0 hours and 0 minutes	0.1

Total storage required: 13 m³

Half empty time: 0 hours and 40 minutes.

Output - Recommended Blue Roof System

System Name:	ABG bluerroof VF HD 50mm + Pedestal Void Space of 15mm
Description:	No. of drainage positions & drainage paths TBC with design team. Utilising additional 5 l/m ² in paver spacing and build-up,

Total storage capacity: 14.3 m³

Number of Blue Roof outlets: 3

- Notes:
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