

Project Name:	150 Holborn, EC1N 2NS - Terrace 8th 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:	1344 m ²	As supplied by Client
Storage area:	902 m ²	As supplied by Client
Maximum allowable runoff:	7.0 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	57	3 hours and 10 minutes	5.9
30 mins	0.0268	69	3 hours and 40 minutes	6.5
1 hour	0.0163	76	4 hours and 0 minutes	6.8
2 hours	0.0095	73	3 hours and 50 minutes	6.7
4 hours	0.0055	57	3 hours and 10 minutes	5.9
6 hours	0.0039	40	2 hours and 30 minutes	4.8
10 hours	0.0026	18	1 hour and 10 minutes	2.9
24 hours	0.0013	5	0 hours and 0 minutes	0.4
48 hours	0.0007	5	0 hours and 0 minutes	0.3

Total storage required: 68.5 m³

Half empty time: 1 hours and 40 minutes.

Output - Recommended Blue Roof System

System Name:	ABG bluerroof VF HD 50mm + Pedestal Void Space of 30mm
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: 69.4 m³

Number of Blue Roof outlets: 6

- Notes:
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