



Eco Green Roofs
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EGR Blue Roof System - Storage / Flow Rates

Project Details

Project:	Astor College, UCL
Address:	99 Charlotte Street, Fitzrovia, London
Postcode:	W1T 4QB

Prepared For

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Rainfall to BS EN 12056-3:2000

Nearest Town	London
Category	Cat 2
Building Design Life (Years)	50
Rainfall Intensity (l/s/m ²)	0.043

Roof Catchment Areas (m²)

	<u>Area 1</u>		
Catchment Area	139		
Additional Area	139		
Total Area	139		

Parameters / Flow

Return Period	1 in 100 years		
Climate Change Factor	30%		
Design Discharge Rate (L/s)	3		
Number of Outlets	4		
Effective Orifice Diameter (mm)	26.1		

Results

Effective Orifice Diameter (mm)	26.1		
Attenuation Volume (L)	13622		
Attenuation Time (Hours)	0.8		

Notes:

1. All calculations assume a maximum head of water at the outlet of sump depth + void former depth
2. Outlets should be positioned in such a way that, where possible, each drains an equal portion of the total runoff
3. Performance figures quoted are restricted by BS EN 12056-3:2000
4. Overflow outlets should be incorporated into the design to indicate if there is a maintenance issue, These outlets also provide an additional safety margin.