

Date: 28/03/2022

Revision: D (1090)

Page: 3

Client:**Project:** UBB**Location:** London**Roof Location:** Level 5 - No Sump**Roof Details:**

BlueRoof	308 m ²	x 100 %
Additional Area	34 m ²	x 100 %
Effective Area	342 m ²	
Inflow From Other Roofs	5.28 l/s	

Storage Details:

Length	308 m
Width	1 m
Depth	100 mm
Porosity	95 %
Slope	none

Rainfall Details - FEH Method:

Return Period	100 years
Climate Change Factor	40 %

Summer Storm Profile

Duration	Intensity		Required storage(m ³)
	mm	mm/h	
5 min	25.8	309.1	9.4
10 min	36.7	220.0	13.4
15 min	45.1	180.3	16.2
30 min	57.9	115.9	20.1
45 min	65.4	87.2	21.7
60 min	70.7	70.7	22.6
2 hours	90.6	45.3	26.0
6 hours	122.9	20.5	26.0
24 hours	150.7	6.3	17.6

Outflow Details:

Attenuation Control	BlueRoof Outlet
Control	12 holes
Sump Depth	None
Discharge rate	8.89 l/s
Outlet	8 No
Flow Per Outlet	1.11 l/s

Result:

Outcome	Pass
Critical Storm Duration	3.8 hrs
Hmax	92 mm
Required Volume	27 m ³
Time to half empty	1 hrs
Roof Loading	87.66 Kg/m ²

All results based on input data. Please check that input data has been correctly interpreted.

The Bauder Blue Flat Roof Rainwater Calculation Software will perform calculations in accordance with industry best practice for blue roof design based upon provided data relating to a specific building's dimensions geographical location and the flow rate performance of the selected Bauder rainwater outlet product.

Whilst the information contained herein is to the best of our knowledge true and accurate we specifically exclude any liability for errors omissions or otherwise arising therefrom.

Details practices principles values and calculations should be verified for accuracy and suitability for the required purpose for use.

NOTE: These calculations are valid for a zero fall roof with minimal variation in levels. Any significant variation will affect the volume of water stored and the roofs ability to attenuate extreme rain events. Typically variations in roof level should be less than 0 to +30mm with no back falls. The H-Max is measured from the mean roof level

Date: 28/03/2022

Revision: D (1090)

Page: 4

Client:**Project:** UBB**Location:** London**Roof Location:** Level 5 - 80mm Sump**Roof Details:**

BlueRoof	308 m ²	x 100 %
Additional Area	34 m ²	x 100 %
Effective Area	342 m ²	
Inflow From Other Roofs	4.38 l/s	

Storage Details:

Length	308 m
Width	1 m
Depth	100 mm
Porosity	95 %
Slope	none

Rainfall Details - FEH Method:

Return Period	100 years
Climate Change Factor	40 %

Summer Storm Profile

Duration	Intensity		Required storage(m ³)
	mm	mm/h	
5 min	25.8	309.1	9.0
10 min	36.7	220.0	12.6
15 min	45.1	180.3	15.4
30 min	57.9	115.9	19.2
45 min	65.4	87.2	21.0
60 min	70.7	70.7	21.9
2 hours	90.6	45.3	25.2
6 hours	122.9	20.5	27.0
24 hours	150.7	6.3	18.8

Outflow Details:

Attenuation Control	BlueRoof Outlet
Control	12 holes
Sump Depth	80 mm
Discharge rate	7.03 l/s
Outlet	6 No
Flow Per Outlet	1.17 l/s

Result:

Outcome	Pass
Critical Storm Duration	4.12 hrs
Hmax	93 mm
Required Volume	27.3 m ³
Time to half empty	1.4 hrs
Roof Loading	88.64 Kg/m ²

All results based on input data. Please check that input data has been correctly interpreted.

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