

Client:

Project: B235931/1_Bird in Hand

Location: West End Lane, NW6 4NX

Roof Location: Main Roof

Roof Details:

BlueRoof160 m²x 100 %

Additional Area0 m²x 100 %

Effective Area160 m²

Storage Details:

Length160 m

Width1 m

Depth100 mm

Porosity95 %

Slopenone

Rainfall Details - FEH Method:

Return Period100 years

Climate Change Factor40 %

Summer Storm Profile

Duration	Intensity		Required storage(m³)
	mm	mm/h	
5 min	26.0	312.0	4.1
10 min	37.1	222.7	5.7
15 min	45.7	182.8	7.0
30 min	58.8	117.6	8.7
45 min	66.5	88.7	9.5
60 min	71.9	71.9	9.9
2 hours	92.7	46.4	11.4
6 hours	126.9	21.2	11.8
24 hours	154.5	6.4	6.8

Outflow Details:

Attenuation ControlBlueRoof Outlet

ControlTwist Std. Position 1

Sump DepthNone

Discharge rate0.74 l/s

Outlet1 No

Result:

OutcomePass

Critical Storm Duration4 hrs

Hmax79 mm

Required Volume12.1 m³

Time to half empty2.3 hrs

Roof Loading75.62 Kg/m²

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

Overflow discharge requirements based on a CAT1 storm event to BSEN12056-3:2000.

Total overflow discharge rate: 160m2x0.023l/s/m2 = 3.68l/s.

NOTE: Roof loading data shown in the results section is for the blue roof only. For total loading of blue roof and overflows then Hmax + 35mm should be factored in.