BlueRoofDesign Software

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Client:	Syntegra
Project:	(1042) 1 Hampshire Street
Location:	London, NW5 2TE
Roof Location:	Brown Roof with PV Panels

Roof Details:

BlueRoof	375 m²	x 100 %
Additional Area	0 m²	x 100 %
Effective Area	375 m²	

Storage Details:

Length	375 m
Width	1 m
Depth	100 mm
Porosity	95 %

Rainfall Details - FEH Method:

Return Period	100 years
Climate Change Factor	40 %

Summer Storm Profile

Duration	Intensity		Required
	mm	mm/h	storage(m³)
5 min	25.8	309.2	9.3
10 min	36.7	220.0	12.8
15 min	45.1	180.3	15.3
30 min	57.8	115.6	18.0
45 min	65.3	87.0	18.8
60 min	70.5	70.5	19.1
2 hours	90.2	45.1	20.7
6 hours	123.0	20.5	18.0
24 hours	151.2	6.3	6.9

Outflow Details:

Attenuation Control	BlueRoof Outlet
Control	12 holes
Sump Depth	None
Discharge rate	3.54 l/s
Outlet	4 No
Flow Per Outlet	0.88 l/s

Result:

Outcome	**Pass**
Critical Storm Duration	2.17 hrs
Hmax	58 mm
Required Volume	20.7 m³
Time to half empty	48.8 min
Roof Loading	55.2 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.