

Client:	Patrick Parsons		
Project:	140-146 Camden Street		
Reference:	BR-6270-00	Designer:	N.Todd
		Date:	27/10/2020
Location:	London		
Roof Location:	Roof A		

Roof Details:			
BlueRoof	107.8 m ²	x	100 %
Additional Area	0 m ²	x	100 %
Effective Area	107.8 m ²		

Storage Details:	
Length	107.8 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 storage(m ³)
	mm	mm/h	
5 min	25.1	301.8	2.7
10 min	35.9	215.2	3.8
15 min	44.1	176.5	4.6
30 min	56.7	113.5	5.8
45 min	64.0	85.4	6.3
60 min	69.2	69.2	6.7
2 hours	88.6	44.3	7.8
6 hours	120.2	20.0	8.3
24 hours	146.8	6.1	5.4

Outflow Details:	
Attenuation Control	Orifice Plate
Control Diameter	18 mm
Discharge rate	0.4 l/s
Outlet	2 No
Flow Per Outlet	0.2 l/s

Result:	
Outcome	Pass
Critical Storm Duration	4.12 hrs
Hmax	81 mm
Required Volume	8.3 m ³
Time to half empty	2.9 hrs
Roof Loading	76.99 Kg/m ²

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Location:	London		
Roof Location:	Roof B		

Roof Details:			
BlueRoof	181.8 m ²	x	100 %
Additional Area	0 m ²	x	100 %
Effective Area	181.8 m ²		

Storage Details:	
Length	181.8 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 storage(m ³)
	mm	mm/h	
5 min	25.1	301.8	4.5
10 min	35.9	215.2	6.4
15 min	44.1	176.5	7.9
30 min	56.7	113.5	10.0
45 min	64.0	85.4	11.1
60 min	69.2	69.2	11.9
2 hours	88.6	44.3	14.5
6 hours	120.2	20.0	16.6
24 hours	146.8	6.1	13.2

Outflow Details:	
Attenuation Control	Orifice Plate
Control Diameter	17 mm
Discharge rate	0.39 l/s
Outlet	2 No
Flow Per Outlet	0.19 l/s

Result:	
Outcome	Pass
Critical Storm Duration	6 hrs
Hmax	96 mm
Required Volume	16.6 m ³
Time to half empty	6 hrs
Roof Loading	91.31 Kg/m ²

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Roof Location:	Roof C		

Roof Details:			
BlueRoof	120.7 m ²	x 100 %	
Additional Area	0 m ²	x 100 %	
Effective Area	120.7 m ²		

Storage Details:	
Length	120.7 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 storage(m ³)
	mm	mm/h	
5 min	25.1	301.8	3.0
10 min	35.9	215.2	4.2
15 min	44.1	176.5	5.2
30 min	56.7	113.5	6.5
45 min	64.0	85.4	7.2
60 min	69.2	69.2	7.6
2 hours	88.6	44.3	8.9
6 hours	120.2	20.0	9.6
24 hours	146.8	6.1	6.5

Outflow Details:	
Attenuation Control	Orifice Plate
Control Diameter	18 mm
Discharge rate	0.4 l/s
Outlet	2 No
Flow Per Outlet	0.2 l/s

Result:	
Outcome	Pass
Critical Storm Duration	4.67 hrs
Hmax	84 mm
Required Volume	9.6 m ³
Time to half empty	3.3 hrs
Roof Loading	79.54 Kg/m ²

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Location:	London		
Roof Location:	Roof D		

Roof Details:			
BlueRoof	196.9 m ²	x	100 %
Additional Area	0 m ²	x	100 %
Effective Area	196.9 m ²		

Storage Details:	
Length	196.9 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 storage(m ³)
	mm	mm/h	
5 min	25.1	301.8	4.9
10 min	35.9	215.2	7.0
15 min	44.1	176.5	8.6
30 min	56.7	113.5	10.9
45 min	64.0	85.4	12.1
60 min	69.2	69.2	12.9
2 hours	88.6	44.3	15.8
6 hours	120.2	20.0	18.3
24 hours	146.8	6.1	14.8

Outflow Details:	
Attenuation Control	Orifice Plate
Control Diameter	17 mm
Discharge rate	0.39 l/s
Outlet	2 No
Flow Per Outlet	0.19 l/s

Result:	
Outcome	Pass
Critical Storm Duration	6 hrs
Hmax	98 mm
Required Volume	18.3 m ³
Time to half empty	6.5 hrs
Roof Loading	92.94 Kg/m ²

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Roof Location:	Roof E		

Roof Details:			
BlueRoof	134.9 m ²	x	100 %
Additional Area	0 m ²	x	100 %
Effective Area	134.9 m ²		

Storage Details:	
Length	134.9 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 storage(m ³)
	mm	mm/h	
5 min	25.1	301.8	3.4
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2 hours	88.6	44.3	10.4
6 hours	120.2	20.0	11.4
24 hours	146.8	6.1	8.4

Outflow Details:	
Attenuation Control	Orifice Plate
Control Diameter	17 mm
Discharge rate	0.37 l/s
Outlet	2 No
Flow Per Outlet	0.19 l/s

Result:	
Outcome	Pass
Critical Storm Duration	5.72 hrs
Hmax	89 mm
Required Volume	11.4 m ³
Time to half empty	4.3 hrs
Roof Loading	84.51 Kg/m ²

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