

Client:	Formation		
Project:	Ashley Road Depot		
Reference:	PR7976	Designer:	M Fadian
		Date:	17/10/2023
Location:	London		
Roof Location:	A2 Roof		

Roof Details:

BlueRoof	425 m ²	x 100 %
Additional Area	80 m ²	x 100 %
Effective Area	505 m ²	

Storage Details:

Length	425 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 mm	Intensity mm/h	Required storage(m ³)
5 min	25.1	301.8	12.5
10 min	35.9	215.2	17.7
15 min	44.1	176.5	21.6
30 min	56.7	113.5	27.2
45 min	64.0	85.4	30.0
60 min	69.2	69.2	31.7
2 hours	88.6	44.3	37.4
6 hours	120.2	20.0	40.2
24 hours	146.8	6.1	27.4

Outflow Details:

Attenuation Control	Orifice Plate
Control Diameter	29 mm
Sump Depth	None
Discharge rate	1.72 l/s
Outlet	3 No
Flow Per Outlet	0.57 l/s

Result:

Outcome	Pass
Critical Storm Duration	4.65 hrs
Hmax	100 mm
Required Volume	40.3 m ³
Time to half empty	3.3 hrs
Roof Loading	94.82 Kg/m ²

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Client:	Formation		
Project:	Ashley Road Depot		
Reference:	PR7976	Designer:	M Fadian
		Date:	17/10/2023
Location:	London		
Roof Location:	A3 Roof		

Roof Details:

BlueRoof	438 m ²	x 100 %
Additional Area	110 m ²	x 100 %
Effective Area	548 m ²	

Storage Details:

Length	438 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 mm	Intensity mm/h	Required storage(m ³)
5 min	25.1	301.8	13.6
10 min	35.9	215.2	19.2
15 min	44.1	176.5	23.3
30 min	56.7	113.5	29.1
45 min	64.0	85.4	32.0
60 min	69.2	69.2	33.6
2 hours	88.6	44.3	39.0
6 hours	120.2	20.0	41.1
24 hours	146.8	6.1	25.9

Outflow Details:

Attenuation Control	Orifice Plate
Control Diameter	33 mm
Sump Depth	None
Discharge rate	2.23 l/s
Outlet	3 No
Flow Per Outlet	0.74 l/s

Result:

Outcome	Pass
Critical Storm Duration	4 hrs
Hmax	100 mm
Required Volume	41.5 m ³
Time to half empty	2.6 hrs
Roof Loading	94.75 Kg/m ²

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Client:	Formation		
Project:	Ashley Road Depot		
Reference:	PR7976	Designer:	M Fadian
		Date:	17/10/2023
Location:	London		
Roof Location:	B2 Roof		

Roof Details:

BlueRoof	238 m ²	x 100 %
Additional Area	59 m ²	x 100 %
Effective Area	297 m ²	

Storage Details:

Length	238 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 mm	Intensity mm/h	Required storage(m ³)
5 min	25.1	301.8	7.4
10 min	35.9	215.2	10.4
15 min	44.1	176.5	12.6
30 min	56.7	113.5	15.8
45 min	64.0	85.4	17.3
60 min	69.2	69.2	18.2
2 hours	88.6	44.3	21.2
6 hours	120.2	20.0	22.3
24 hours	146.8	6.1	14.1

Outflow Details:

Attenuation Control	Orifice Plate
Control Diameter	24 mm
Sump Depth	None
Discharge rate	1.18 l/s
Outlet	3 No
Flow Per Outlet	0.39 l/s

Result:

Outcome	Pass
Critical Storm Duration	4 hrs
Hmax	100 mm
Required Volume	22.5 m ³
Time to half empty	2.7 hrs
Roof Loading	94.54 Kg/m ²

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Client:	Formation		
Project:	Ashley Road Depot		
Reference:	PR7976	Designer:	M Fadian
		Date:	17/10/2023
Location:	London		
Roof Location:	B3 Roof		

Roof Details:

BlueRoof	455 m ²	x 100 %
Additional Area	114 m ²	x 100 %
Effective Area	569 m ²	

Storage Details:

Length	455 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 mm	Intensity mm/h	Required storage(m ³)
5 min	25.1	301.8	14.1
10 min	35.9	215.2	19.9
15 min	44.1	176.5	24.2
30 min	56.7	113.5	30.2
45 min	64.0	85.4	33.1
60 min	69.2	69.2	34.8
2 hours	88.6	44.3	40.3
6 hours	120.2	20.0	42.5
24 hours	146.8	6.1	26.6

Outflow Details:

Attenuation Control	Orifice Plate
Control Diameter	42 mm
Sump Depth	None
Discharge rate	2.4 l/s
Outlet	2 No
Flow Per Outlet	1.2 l/s

Result:

Outcome	Pass
Critical Storm Duration	4 hrs
Hmax	99 mm
Required Volume	43 m ³
Time to half empty	2.5 hrs
Roof Loading	94.51 Kg/m ²

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Reference:	PR7976	Designer:	M Fadian
		Date:	17/10/2023
Location:	London		
Roof Location:	C1 Roof		

Roof Details:

BlueRoof	505 m ²	x 100 %
Additional Area	85 m ²	x 100 %
Effective Area	590 m ²	

Storage Details:

Length	505 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 mm	Intensity mm/h	Required storage(m ³)
5 min	25.1	301.8	14.7
10 min	35.9	215.2	20.7
15 min	44.1	176.5	25.3
30 min	56.7	113.5	31.8
45 min	64.0	85.4	35.1
60 min	69.2	69.2	37.1
2 hours	88.6	44.3	44.0
6 hours	120.2	20.0	47.5
24 hours	146.8	6.1	32.8

Outflow Details:

Attenuation Control	Orifice Plate
Control Diameter	31 mm
Sump Depth	None
Discharge rate	1.96 l/s
Outlet	3 No
Flow Per Outlet	0.65 l/s

Result:

Outcome	Pass
Critical Storm Duration	4.83 hrs
Hmax	99 mm
Required Volume	47.5 m ³
Time to half empty	3.4 hrs
Roof Loading	94.06 Kg/m ²

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Project:	Ashley Road Depot		
Reference:	PR7976	Designer:	M Fadian
		Date:	17/10/2023
Location:	London		
Roof Location:	C Podium		

Roof Details:

BlueRoof	427 m ²	x 100 %
Additional Area	107 m ²	x 100 %
Effective Area	534 m ²	

Storage Details:

Length	427 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 mm	Intensity mm/h	Required storage(m ³)
5 min	25.1	301.8	13.2
10 min	35.9	215.2	18.7
15 min	44.1	176.5	22.7
30 min	56.7	113.5	28.4
45 min	64.0	85.4	31.2
60 min	69.2	69.2	32.8
2 hours	88.6	44.3	38.0
6 hours	120.2	20.0	40.1
24 hours	146.8	6.1	25.3

Outflow Details:

Attenuation Control	Orifice Plate
Control Diameter	28 mm
Sump Depth	None
Discharge rate	2.14 l/s
Outlet	4 No
Flow Per Outlet	0.53 l/s

Result:

Outcome	Pass
Critical Storm Duration	4 hrs
Hmax	100 mm
Required Volume	40.5 m ³
Time to half empty	2.6 hrs
Roof Loading	94.85 Kg/m ²

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