

Soakaway Design: 3 Popham Close Chilton Foliat	Date: 12/11/2025		
	Designed by: PF	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Archibald Shaw: One Little London Chichester West Sussex		



Archibald Shaw

One Little London Chichester West Sussex PO19 1PP
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SA1

Type : Soakaway

Dimensions

Exceedance Level (m)	101.350
Depth (m)	1.350
Base Level (m)	100.000
Freeboard (mm)	550
Soakaway Shape	Rectangular
Diameter / Width (m)	1.000
Length (m)	1.500
Porosity (%)	95
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.2448
Side Infiltration Rate (m/hr)	0.2448
Safety Factor	2.0
Total Volume (m³)	1.140

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

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Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	SA1		Time of Concentration	0.002	100	0	100	0.002
TOTAL		0.0		0.002				0.002

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Report Details: Type: Network Design Criteria Storm Phase: Phase	Archibald Shaw: One Little London Chichester West Sussex		


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Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Report Title: Rainfall Analysis Criteria	Archibald Shaw: One Little London Chichester West Sussex		


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Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

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Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FEH22: 100 years: +40 %: 15 mins: Summer	0.00	1.9	0.837

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Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
SA1	FEH22: 100 years: +40 %: 60 mins: Winter	100.721	100.721	0.721	0.721	0.9	1.027	0.000	0.909	0.0	0.000	9.938	OK

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Report Details: Type: Phase Management Storm Phase: Phase	Archibald Shaw: One Little London Chichester West Sussex		



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Phase

FEH22: 100 years: Increase Rainfall (%): +40: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	1.9	0.837	0.0	0.000

Graphs

