Project:	Date:		
121335 66 Church Road, Redfield, Bristol 5m x 4m x 0.4m	24/04/2025		
	Designed by: HP	Checked by:	Approved By:
Report Details: Type: Inflows Storm Phase: Phase	Company Address: Charnwood Business Park, North Road Loughborough, Leicestershire, LE11 1LE		

Polypipe
Polypipe Civils & Green Urbanisation
North Road, Loughborough, Leicestershire, LE11 1LE
Tel: 01509 615100
Fax: 01509 615215
www.polypipe.com/civils

Catchment Area

Type : Catchment Area

Area (ha)	0.027

Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.750
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Attenuation Tank Type : Cellular Storage

Dimensions

Exceedance Level (m)	100.000
Depth (m)	0.400
Base Level (m)	98.600
Number of Crates Long	5
Number of Crates Wide	8
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	8.600

Inlets

Inlet

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

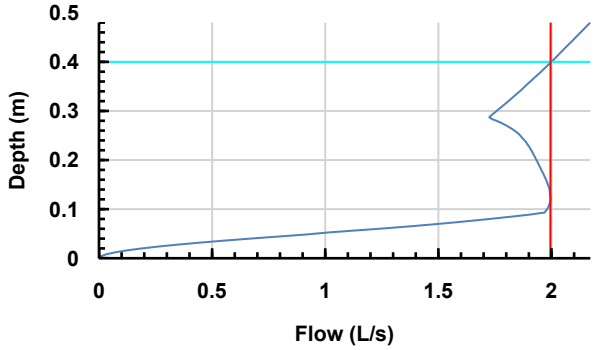
Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®

Invert Level (m)	98.600
Design Depth (m)	0.400
Design Flow (L/s)	2.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☑

Unit Reference	SHE-0076-2000-0400-2000



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	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	20.0
Ratio R	0.350
Summer	☑
Winter	☑

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address: Charnwood Business Park, North Road Loughborough, Leicestershire, LE11 1LE			North Road, Loughborough, Leicestershire, LE11 1LE Tel: 01509 615100 Fax: 01509 615215 www.polypipe.com/civils

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

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. Avg. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Attenuation Tank	FSR: 100 years: +45 %: 60 mins: Summer	98.978	98.978	0.378	9.3	7.187	0.000	0.000	1.9	10.797	16.432	OK