

### Design Settings

Rainfall Methodology FSR Return Period (years) 1 Additional Flow (%) 0 FSR Region England and Wales M5-60 (mm) 17.000 Ratio-R 0.400 CV 0.750 Time of Entry (mins) 5.00	Maximum Time of Concentration (mins) 30.00 Maximum Rainfall (mm/hr) 50.0 Minimum Velocity (m/s) 1.00 Connection Type Level Soffits Minimum Backdrop Height (m) 0.200 Preferred Cover Depth (m) 1.200 Include Intermediate Ground ✓ Enforce best practice design rules ✓
---	--

### Nodes

Name	Area (ha)	Cover Level (m)	Easting (m)	Northing (m)	Depth (m)
Soakaway	0.014	10.000	0.000	0.000	1.500
Permeable Paving	0.024	10.000	75.000	75.000	0.500

### Simulation Settings

Rainfall Methodology FSR FSR Region England and Wales M5-60 (mm) 17.000 Ratio-R 0.400 Summer CV 0.750 Winter CV 0.840	Analysis Speed Detailed Skip Steady State ✓ Drain Down Time (mins) 240 Additional Storage (m <sup>3</sup> /ha) 20.0 Check Discharge Rate(s) x Check Discharge Volume x
--	---

### Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	40	0	0

### Node Soakaway Soakaway Storage Structure

Base Inf Coefficient (m/hr) 0.00000 Side Inf Coefficient (m/hr) 0.07200 Safety Factor 2.0 Porosity 0.30	Invert Level (m) 8.500 Time to half empty (mins) 655 Pit Width (m) 5.000 Pit Length (m) 5.500	Depth (m) 0.800 Inf Depth (m) Number Required 1
--	--	---

### Node Permeable Paving Carpark Storage Structure

Base Inf Coefficient (m/hr) 0.07200 Side Inf Coefficient (m/hr) 0.00000 Safety Factor 2.0 Porosity 0.30	Invert Level (m) 9.500 Time to half empty (mins) 50 Width (m) 15.300 Length (m) 15.300	Slope (1:X) 1000.0 Depth (m) Inf Depth (m)
--	---	--

**Results for 1 year Critical Storm Duration. Lowest mass balance: 99.38%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m <sup>3</sup> )	Flood (m <sup>3</sup> )	Status
1440 minute winter	Soakaway	960	8.716	0.216	0.1	1.8227	0.0000	OK
30 minute winter	Permeable Paving	23	9.520	0.020	2.2	0.8586	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)
1440 minute winter	Soakaway	Infiltration	0.0
30 minute winter	Permeable Paving	Infiltration	0.9

**Results for 30 year Critical Storm Duration. Lowest mass balance: 99.38%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m <sup>3</sup> )	Flood (m <sup>3</sup> )	Status
600 minute winter	Soakaway	480	8.964	0.464	0.4	3.9164	0.0000	OK
30 minute winter	Permeable Paving	24	9.542	0.042	5.4	2.4226	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)
600 minute winter	Soakaway	Infiltration	0.1
30 minute winter	Permeable Paving	Infiltration	2.0

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.38%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m <sup>3</sup> )	Flood (m <sup>3</sup> )	Status
360 minute winter	Soakaway	320	9.481	0.981	1.0	6.7875	0.0000	OK
30 minute winter	Permeable Paving	26	9.578	0.078	9.8	4.9623	0.0000	OK

Link Event (Outflow)	US Node	Link	Outflow (l/s)
240 minute winter	Soakaway	Infiltration	0.2
15 minute summer	Permeable Paving	Infiltration	2.3