

**Design Settings**

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	1	Maximum Rainfall (mm/hr)	200.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	26.250	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

**Nodes**

Name	Area (ha)
PP	0.023

**Node PP Carpark Storage Structure**

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Width (m)	7.000	Depth (m)	0.235
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	17.250	Length (m)	10.000	Inf Depth (m)	0.235
Safety Factor	2.0	Time to half empty (mins)		Slope (1:X)	200.0		

**Node PP Depth/Area Storage Structure**

Base Inf Coefficient (m/hr)	0.09110	Safety Factor	2.0	Invert Level (m)	16.050
Side Inf Coefficient (m/hr)	0.09110	Porosity	0.95	Time to half empty (mins)	409

Depth (m)	Area (m <sup>2</sup> )	Inf Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )	Inf Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )	Inf Area (m <sup>2</sup> )
0.000	9.8	9.8	1.200	9.8	29.0	1.201	0.0	29.0

**Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%**

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
240 minute winter	PP	220	16.401	0.351	0.9	3.3611	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
240 minute winter	PP	Infiltration	0.2

**Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%**

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
180 minute winter	PP	176	16.890	0.840	2.3	8.0539	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
180 minute winter	PP	Infiltration	0.3

**Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 100.00%**

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
240 minute winter	PP	232	17.352	1.302	2.9	13.1690	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
240 minute winter	PP	Infiltration	0.4

**Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 100.00%**

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
240 minute winter	PP	236	17.483	1.433	3.4	15.9416	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
240 minute winter	PP	Infiltration	0.4