

Residential SuDS Toolkit

MERISTEM

DESIGN

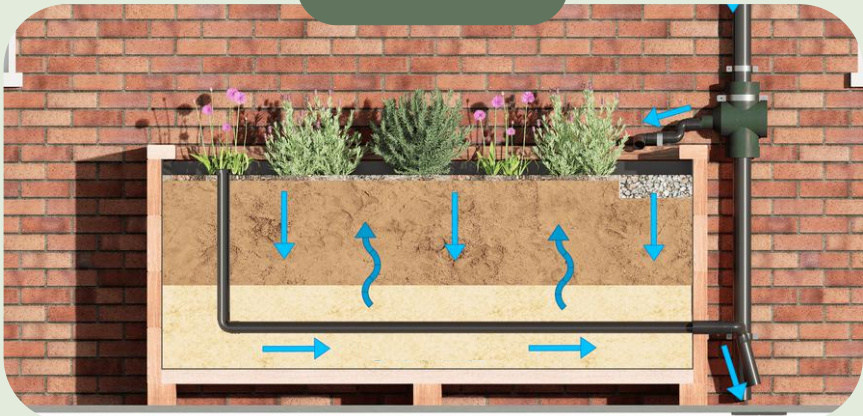
Turning the grey green®

Delivering Residential SuDS

Why do we need Residential SuDS Planters?

More and more homes are experiencing flood events as populations grow and extreme weather becomes more frequent. Sustainable Drainage Systems (SuDS) like SuDS Planters can be retrofit to these homes to capture and slow surface water runoff. This decreases pressure on drainage networks and lowers flood risk.

How it works



[Find out more about SuDS Planters here](#)

The challenges of delivering Residential SuDS:

Limited space

Cars, bins, and narrow front gardens can make retrofitting SuDS difficult.

Plant selection

Planting must be suited to sun, shade and seasonal conditions.

Maintenance

Residential SuDS must be simple for residents to maintain throughout the year.



Our SuDS Planter

Our planters are designed to fit seamlessly into residential homes. They offer:



Customisable and bespoke sizing

We tailor our SuDS planters according to each residence, ensuring it is sized to fit seamlessly into the property.

Speciliast planting

Designed with expert plant knowledge, we select plants according to the light levels and sun exposure of the planter location.

Material options

We offer a range of materials to build the SuDS planter including timber and galvanised steel which can be painted or powder-coated to any RAL colour.

Self-irrigating system

Our planters feature a specialised attenuating aquifer medium base that provides both storage and a gradual release of surface water.

Correct soil depth

We fill our planters with at least 450mm of soil for adequate storage capacity and drought survival as set out in the CIRIA SuDS Manual (C753).

Educational value

We distribute a maintenance manual to residents that outlines how to care for the plants and planter to ensure long-term success.

Water Butts:

Best suited to the rear of properties

Lightweight and holds large amounts of water but shallow soil depth means plants may struggle

Our recommendation

Use a SuDS planter at the front of the property and a water butt at the rear



Barnet Residential SuDS

Case study

Project summary

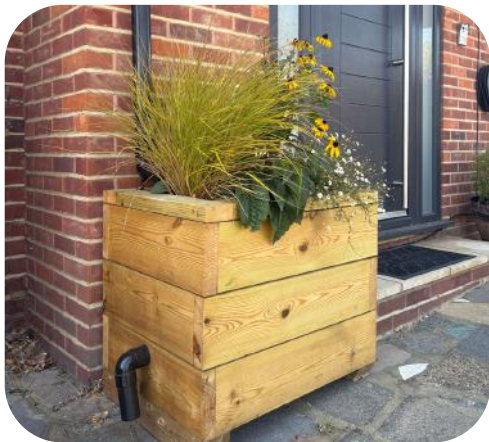
An ongoing project in collaboration with Barnet Council, Harrow Council, Thames Water, Environment Agency, GLA and the Action for Silk Stream. The scheme aims to bring SuDS planters to private residences located within the Silk Stream catchment area.

How did we do it?

We delivered these residential SuDS planters in 5 steps. Read on to discover our Residential SuDS Toolkit that outlines how we did it.

What was the outcome?

We tailored a series of timber SuDS planters to fit seamlessly into the properties. Collecting roof runoff via downpipe conversions, the planters capture, store and slowly release water back into the drainage network, alleviating local flooding pressures.







Residential SuDS Toolkit

Our end-to-end approach to delivering successful residential SuDS planters.

1



Resident engagement

Leaflet drop to engage and inform residents of the benefits of SuDS Planters in their home

2



Site surveys

Site surveys to gauge catchment area, local rainfall and attenuation requirements

5



Aftercare

Provide maintenance manual on caring for the planters and planting

3



Calculations

We input the site survey information into a software to determine the size of the SuDS planter



Installation

Custom made SuDS planters including bespoke planting scheme and downpipe conversions

4

[Click here to read the full toolkit and see case study examples](#)







MERISTEM

DESIGN

To find out more go to
meristemdesign.co.uk

Meristem Design
45-47 Clerkenwell Green,
London, EC1R 0EB

+44 (0) 20 31376971

@meristemdesign