

SUDS PLANTER GUIDE

CATALOGUE - 2024





URBAN WATER MANAGEMENT

As our urban environments grow, so does the challenge of managing rainwater. Traditionally, rainwater in cities is swiftly directed into drainage systems which can become overwhelmed during heavy rainfall, leading to flooding.

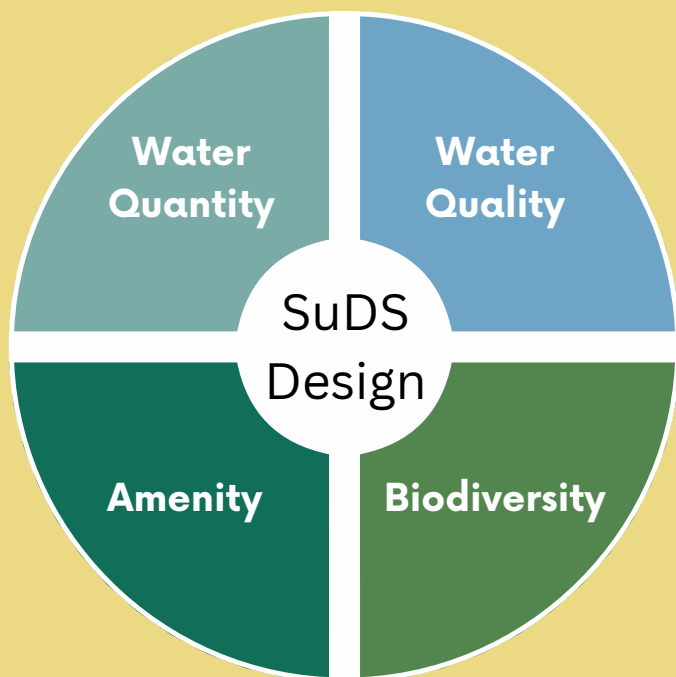
In today's cities, finding smart ways to handle rainwater is more important than ever. SuDS Planters are innovative solutions that address this need.

At Meristem Design, our focus is on transforming urban spaces into areas that are not only green but also sustainable and beneficial for the community.

SuDS planters offer a smarter way to handle this water by mimicking the natural process of rainwater absorption and release that occurs in nature. It's a modern-day problem in need of a modern-day solution.

KEY BENEFITS

SuDS planters help address challenges associated with urban flooding and water pollution.



Flood risk mitigation

Water Quantity: Controlling runoff to manage flood risks effectively while preserving the natural water cycle.

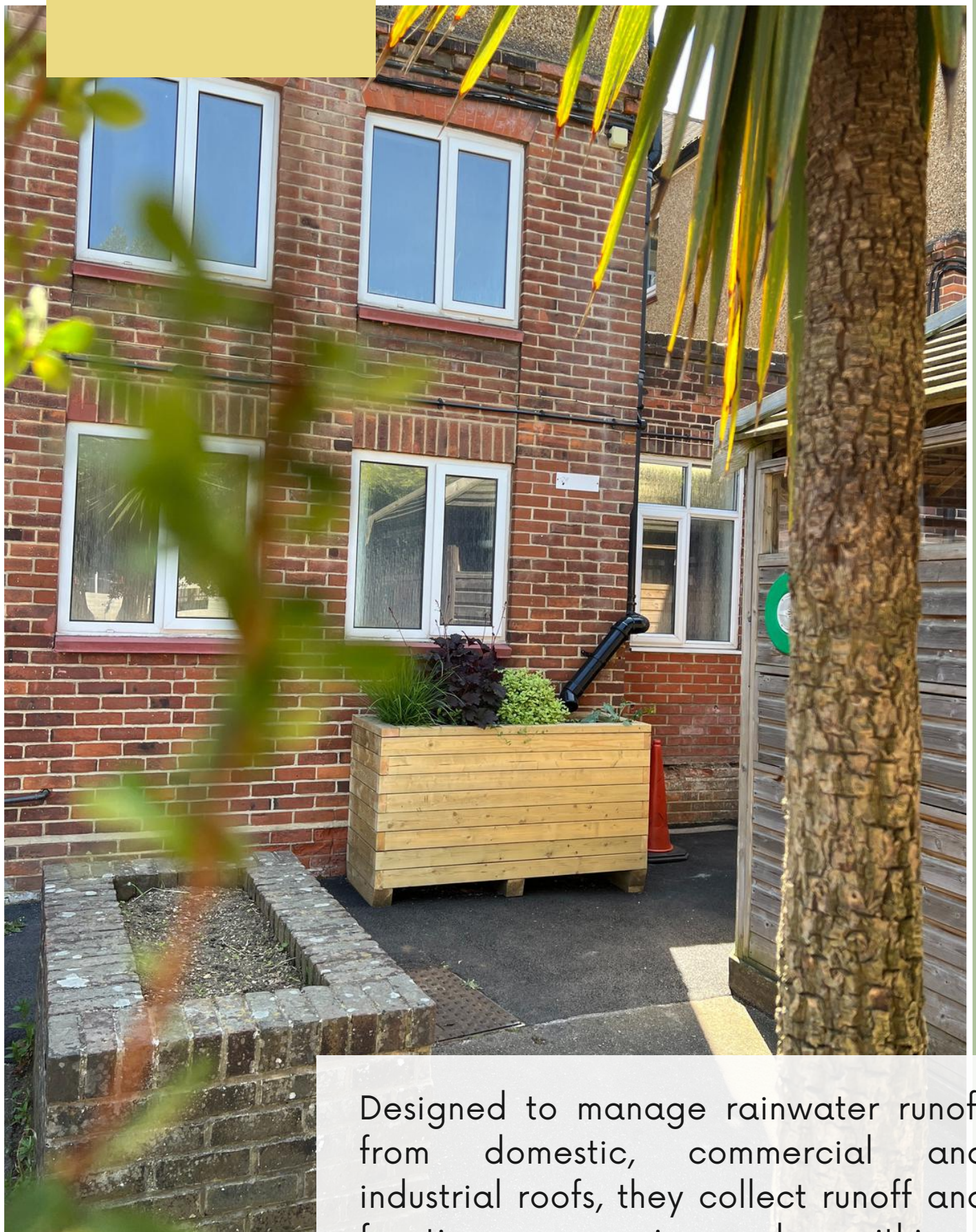
Water Quality: improving runoff quality to prevent water pollution.

Environmental benefits

Biodiversity: SuDS contribute to creating and sustaining environments that support diverse natural habitats.

Amenity: these systems are designed to enhance and maintain spaces that are beneficial for people.





Designed to manage rainwater runoff from domestic, commercial and industrial roofs, they collect runoff and function as a rain garden within a planter, allowing for sustainable stormwater management.

HOW DOES IT WORK?

A SuDS planter makes use of the water that lands on the roof. Water from the downpipe is directed into the planter.

The soil/compost mix absorbs and stores the rainwater for the plants to use. Excess rainwater filters into the gravel layer where it is stored and at a controlled rate released from the base drainage pipe.



Tanked with an internal drainage system including an overflow and drainage outlet pipe, ready to fit into the existing site drainage system.

The planter is lined to form a waterproof seal to retain the stormwater for regulated slow release.



AWARD-WINNING AQUAPLANTER®

Fabricated in our London workshop and perfectly designed to fit into any urban setting, seamlessly working with any existing drainage infrastructure.



Delivered for:

Schools Public realm Commerical Residential

Promoting a greener more sustainable environment



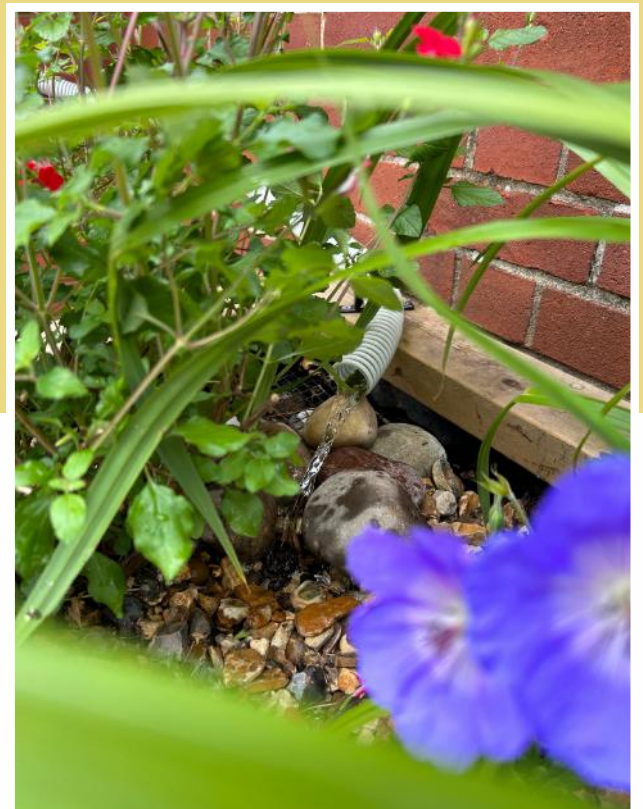
Improving water quality and quantity

The process of encouraging the rain water to flow through the planters significantly slows water down during storm conditions, helping to reduce the rate at which water enters our rivers, lakes, and oceans, making them less likely to flood during storms.

SuDS Planters help tackle pollution by removing many of the pollutants found in the runoff from roofs, such as sediment, bird droppings and deposits from air pollution.

SERVICES WE OFFER

- Design
- Installation
- Planting
- Maintenance
- Monitoring



ENHANCEMENTS

HYDROROCK® INTEGRATION

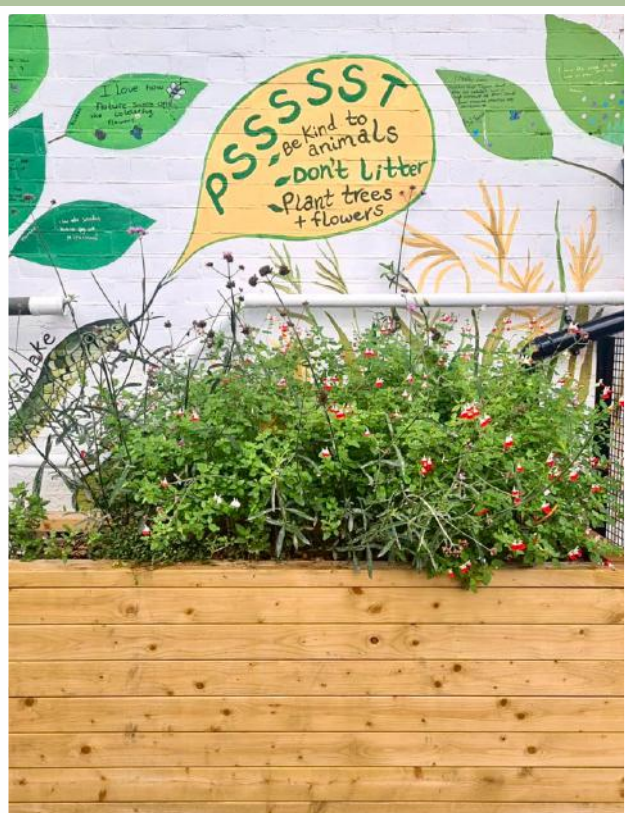
Utilises innovative Hydrorock® technology for superior water absorption and retention. 100% natural rock to replace traditional shingle.



ENGAGEMENT MATERIALS

Make your SuDS planters fun! Add rain chains or inlets such as rainbows or rain clouds to help engage school pupils on the importance of water management.

More additions: Wi-Fi remote access, Smart SuDS technology and educational information boards.



BESPOKE AND CUSTOMISABLE DESIGN

The planters are available in various sizes, colours, and shapes, and can be tailored to meet your requirements. Available in hardwood timber, treated softwood and powder coated steel.



Powder coated steel standard colours:



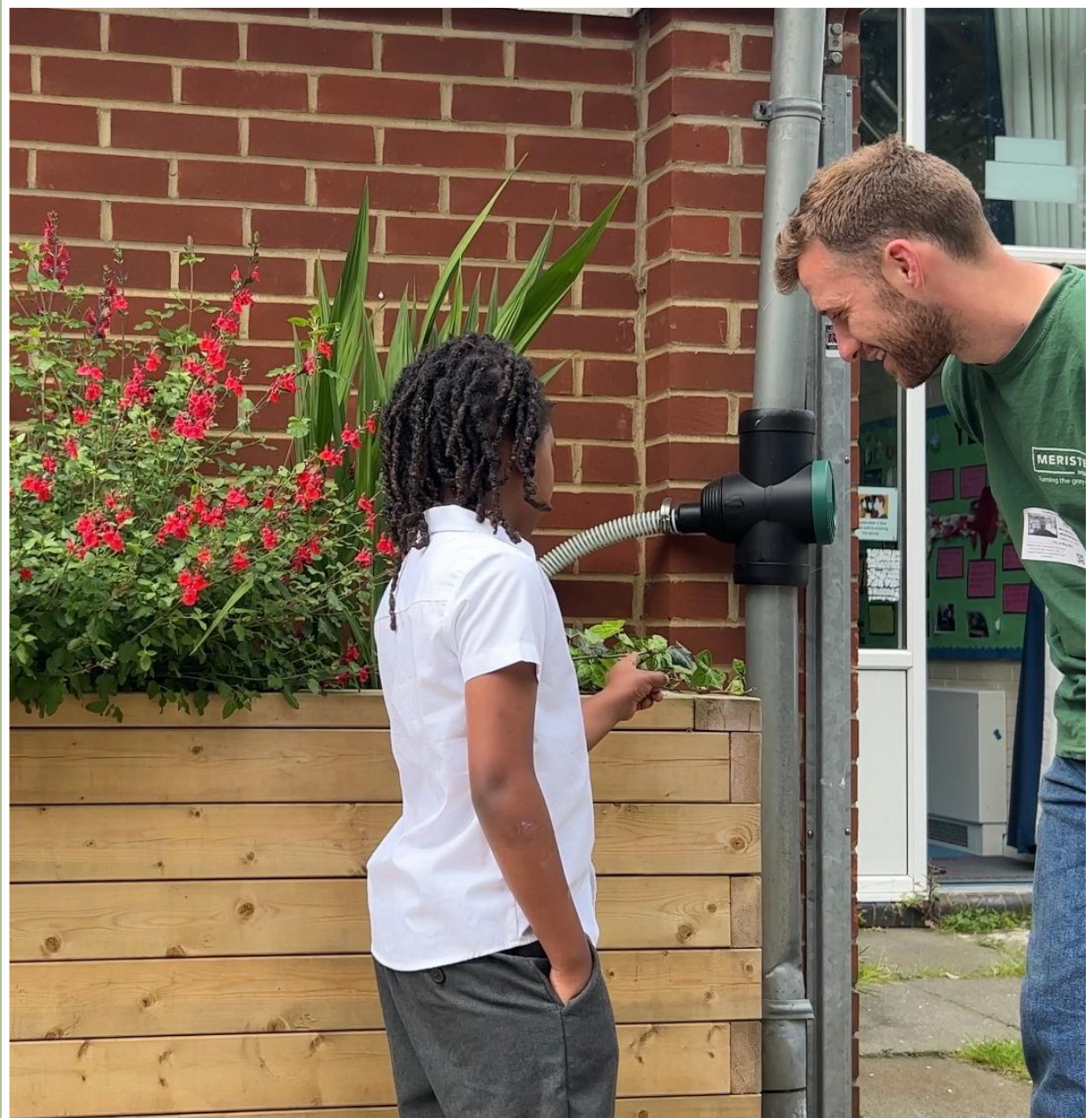
Hardwood timber:



Treated softwood:







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