

SuDSPod™

On Plot Attenuation



GreenBlue
URBAN

Creating healthier urban spaces in harmony with nature



SuDSPod On Plot Attenuation

NEW FEATURE

New cladding style

SuDSPod now comes with vertical cladding, available in a range of stained and painted finishes.



Enhances biodiversity



Filters the water

NEW FEATURE

Water storage for reuse

SuDSPod's unique patented internal chamber is now capable of storing water for reuse.



All water attenuated in 98% of storms



Pressure on the network significantly reduced



Customisable flow control

NEW FEATURE

In built levelling system

SuDSPod's comes with an in built levelling system that allows for fast installation and adaptability to suit all sites.

Hydraulic Performance

Peak flow reduction examples	
Storm event	Peak flow reduction
1:30 year 15 min summer	76%
1:1 year 60 min summer	51%
1:1 year 240 min summer	31%
1:100 year + 40% CC 15 min winter	25%

Peak outflow performance	
Storm event	Outflow
All events up to 1:10 year storms	< 0.7l/s
89% of annual events**	< 0.3l/s
98% of annual events**	< 0.8l/s

**Based on 2018 London rainfall data

Peak flow delay	
Storm event	Outflow
1:1 year 180min winter	30 minutes
1:2 year 360min winter	50 minutes
1:1 year 360min winter	50 minutes

Testing at Hull University



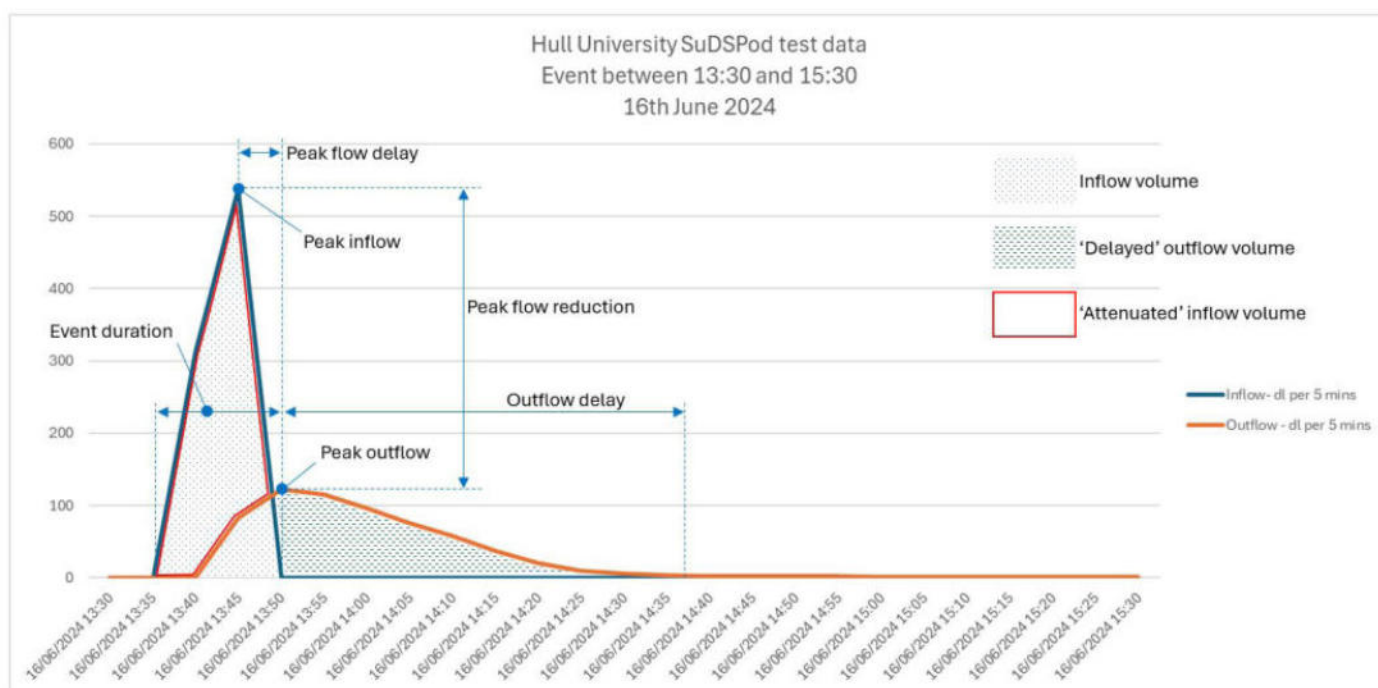
Testing situation commenced at Hull University at the beginning of April 2024, providing reliable real life data to verify our modelled performance data. Early results indicate the SuDS Pod may perform even better than expected.

InfoDrainage Modelling



Model available on request.

A detailed InfoDrainage model of the SuDS Pod has been generated giving us the ability to model the performance for any catchment and for any rain event.



All based on InfoDrainage modelled data unless otherwise specified.

On Plot Attenuation

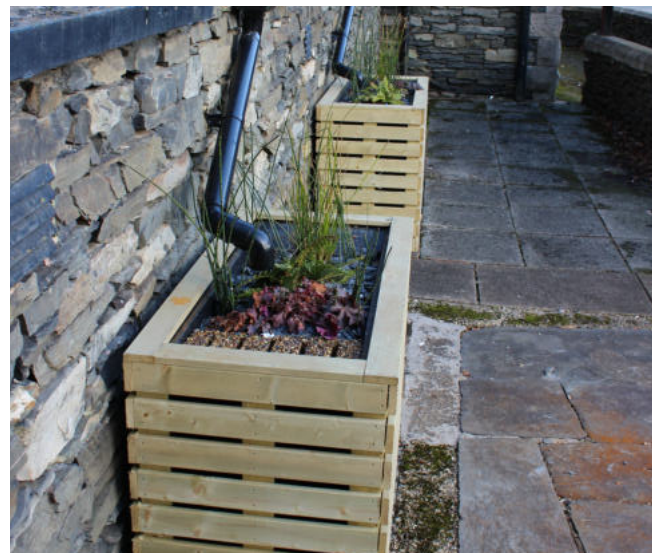
On-plot attenuation involves managing stormwater directly at its source, reducing the volume and speed of water entering drainage systems.

MicroSuDS, such as above-ground planters, play a key role by slowing down and filtering rainwater before it reaches sewers. These systems offer multiple benefits, including reducing the risk of flooding, lowering pressure on public drainage, and enhancing urban green spaces.

By integrating stormwater management into individual properties, microSuDS provide a sustainable, localised solution that supports wider environmental resilience and water quality improvement efforts

GreenBlue Urban has launched SuDSPod, an innovative and cost-effective solution for stormwater management. SuDSPod improves on-plot attenuation, reducing peak flow rates by up to 76% resulting in reduction of pressure on combined sewer overflow issues.

Its patented design offers exceptional performance, managing stormwater in 98% of rain events, and can be retrofitted to existing properties. SuDSPod adheres to Sustainable Drainage Systems (SuDS) principles, enhancing flood resilience, water quality, and urban sustainability. GreenBlue Urban invites developers and planners to explore SuDSPod's transformative potential for stormwater management and sustainable development.



Contribution towards reduction of CSO spills

Through intelligent on-plot attenuation



Potential sewer upgrade avoidance

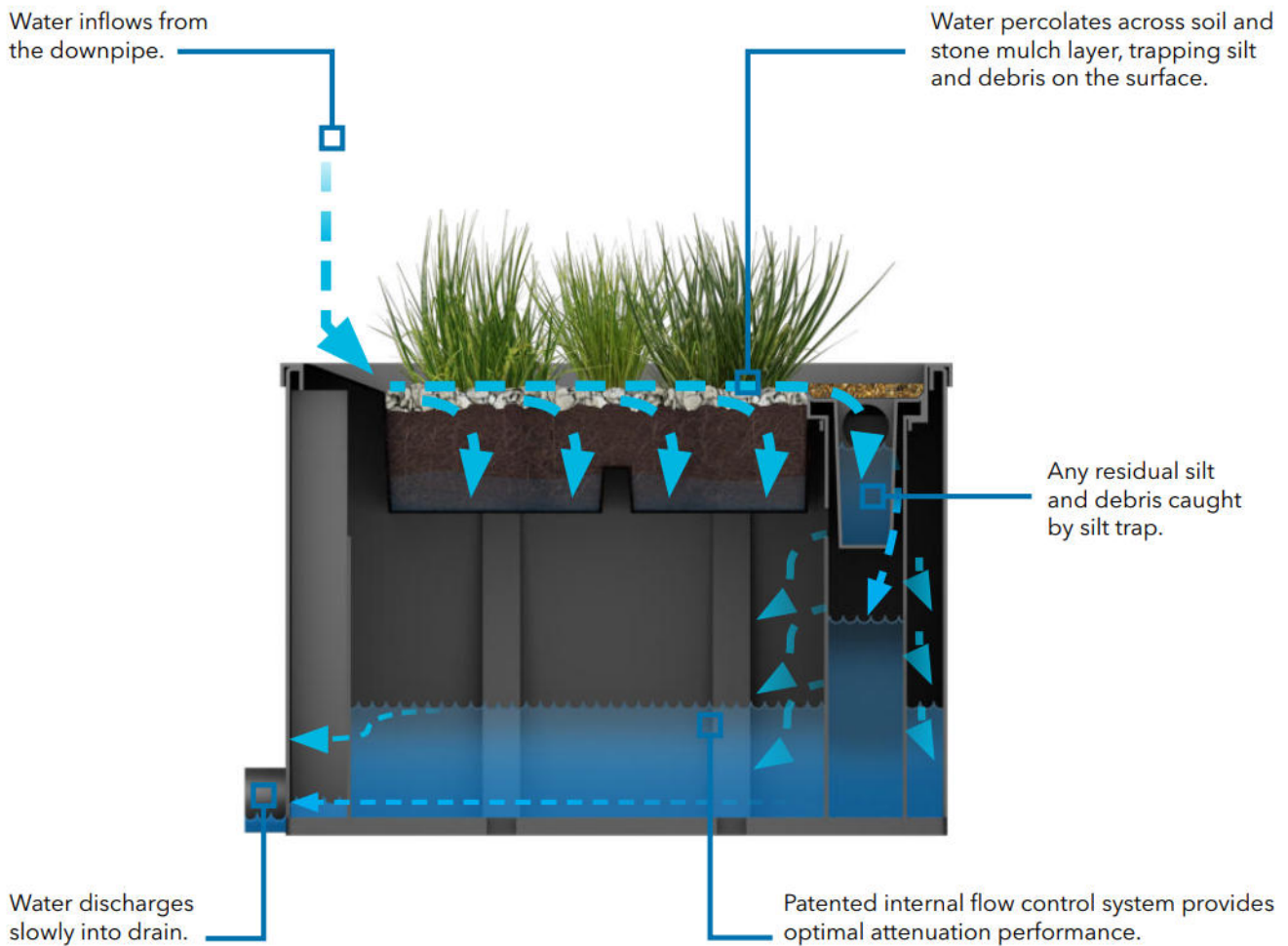
Through highly effective peak flow attenuation



Maximise land values

Through reduction of downstream retention pond/tank size

How SuDSPod works



Why SuDSPod?

GreenBlue Urban's **cost effective**, cutting-edge solution addresses a myriad of challenges associated with stormwater management, ranging from peak flow rates from roofs, to complex microSuDS designs to combat **CSO overflows**.

SuDSPod offers a **versatile and innovative** on plot attenuation approach that benefits new developments, and can be seamlessly retrofitted to private, public housing and service buildings.

The **patented design** is the next generation of a traditional drain-down vessel, delivering industry leading attenuation performance.

With a focus on simplicity, effectiveness, and adaptability, SuDSPod delivers on **all four pillars of SuDS** as set in the CIRIA SuDS Manual Guidance and is poised to transform the landscape of drainage systems.

With its **NEW and IMPROVED** innovative design and **unmatched performance**, SuDSPod is set to transform the landscape of drainage systems and usher in a new era of sustainable urban development.



Enhances Biodiversity



Filters the water



Peak flow reduction up to 76%



Easy to install and maintain

Technical Specifications



Standard finish may vary.

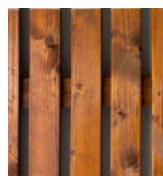
Included with SuDSPod

- Patented flow control mechanism
- Cladding kit
- Internal storage and hand pump
- Integral levelling feet
- Growing medium
- Stone mulch
- Debris filter block and silt trap

Available finishes



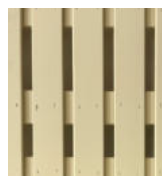
Standard



Rustic Oak
(stained)



Weathered Grey
(Paint)



Birch Wood
(Paint)



Green (Paint)

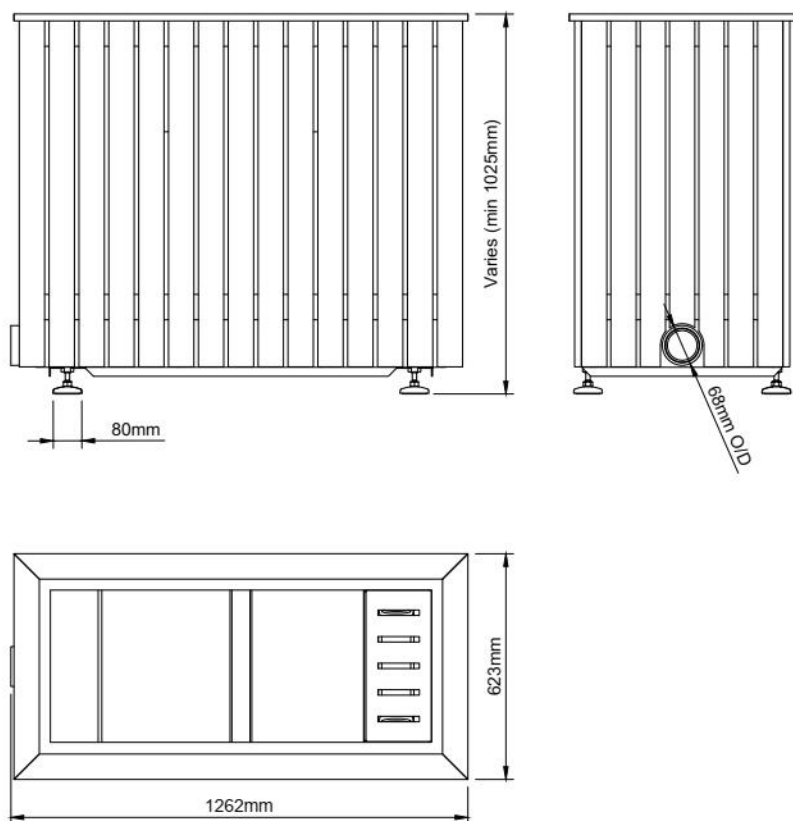


Black (Paint)

Product Code	Description	Cladding	Storage
SP12X5A	SuDSPod On-Plot Attenuation Raised Planter 1262x623x1025mm with vertical tanalised timber cladding, levelling frame, growing medium, slate mulch, silt trap and 68mm outlet. Plants not included.	Standard	No
SP12X5SA	SuDSPod On-Plot Attenuation Raised Planter 1262x623x1025mm with water storage and reuse capacity, vertical tanalised timber cladding, levelling frame, growing medium, slate mulch, silt trap and 68mm outlet. Plants not included.	Standard	Yes
SP12X5B	SuDSPod On-Plot Attenuation Raised Planter 1262x623x1025mm with colour-stained vertical timber cladding, levelling frame, growing medium, slate mulch, silt trap and 68mm outlet. Plants not included.	Coated	No
SP12X5SB	SuDSPod On-Plot Attenuation Raised Planter 1262x623x1025mm with water storage and reuse capacity, colour-stained vertical timber cladding, levelling frame, growing medium, slate mulch, silt trap and 68mm outlet. Plants not included.	Coated	Yes
SP12X5C	SuDSPod On-Plot Attenuation Raised Planter 1200x500x950mm with levelling frame, growing medium, slate mulch, silt trap and 68mm outlet. Plants and cladding not included.	None	No
SP12X5SC	SuDSPod On-Plot Attenuation Raised Planter 1200x500x950mm with levelling frame, growing medium, slate mulch, silt trap and 68mm outlet. Plants and cladding not included.	None	Yes

Dry weight:	191kg
Maximum weight when 100% full of water:	635kg
Total water capacity:	445ltrs
Stored water volume:	81ltrs

Dimensions

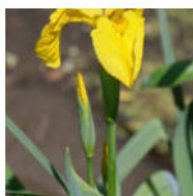


Planting schemes

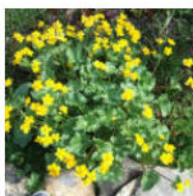
South



Carex Pendula
South, East or West



Iris pseudacorus
South or East

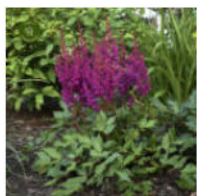


Caltha palustris
South, East or West

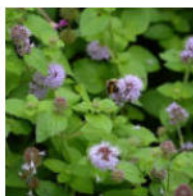


Juncus inflexus
South, East or West

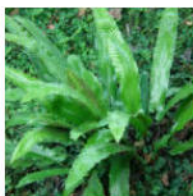
North



Astilbe chinensis
North, East or West



Mentha aquatica
North, South, East or West



Asplenium scolopendrium
North, East or West



Acorus gramineus Ogon
North, South, East or West

Plants supplied may vary subject to availability.

Accessories



Custom display board



SPDPFBA - Downpipe fitting kit



SPCLDA - Cloud downpipe feature



SPBNCHA - Timber seat unit

Product specification/design may vary.

How we can support you

Water Companies

Innovative products, like SuDSPod's, ease pressure and prevent combined sewer overflows. GreenBlue Urban's solutions also enhance community spaces, promote biodiversity, and offer cost-effective, long-term infrastructure improvements that align with environmental goals, making them valuable partners in creating resilient and sustainable water management systems.



Lead Local Flood Authorities

Lead Local Flood Authorities (LLFAs) play a significant role in managing flood risk at the local level in England. GreenBlue Urban can help with flood risk management activities in relation to SuDSPod, by supporting within borough impact assessments and planning policy guidance.



Developers

A design storm impact assessment for developers is a comprehensive process that evaluates the potential impacts of intense weather events, specifically design storms, on a development project. Design storms are hypothetical, yet realistic, rainfall events with specific characteristics used in engineering and planning to assess the resilience and effectiveness of infrastructure. GreenBlue Urban can work with Developers to help create these.

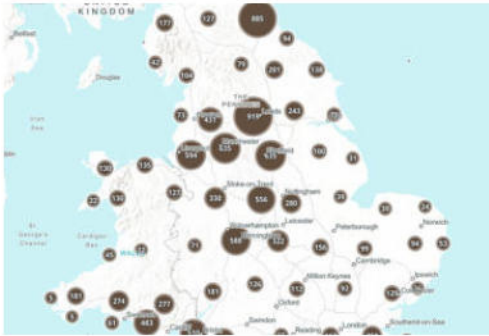


Drainage Engineers

InfoDrainage is a software application designed for stormwater and drainage modeling. It provides tools for hydraulic analysis and design of stormwater drainage systems. Below are general instructions for using InfoDrainage for drainage modeling. Keep in mind that the specific steps may vary depending on the version of the software and the project requirements. GreenBlue Urban can advise on specific modelling requirements.



Technical Guidance & Support



CSO Spill Hot Spot Catchment Cost-Benefit Analysis

Assess the economic feasibility and benefits of implementing measures to mitigate CSO spills in a specific catchment area.



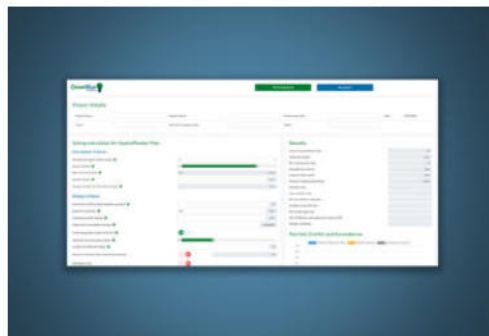
PR Support Pack for Households

Develop a public relations support pack to inform and engage households in the catchment area about CSO mitigation efforts and encourage their participation.



On-site support & technical guidance

Our team are always available to speak to over the phone for technical guidance, as well as in-person with our free on-site support service.



Catchment modelling / consultation

GreenBlue Urban can support with specific modelling requirements and partners with industry leading experts to offer an advise and design service when integrating our products into your SuDS designs.

Case Studies

Anglian Water

Kibworth Mead Academy, faced recurring flooding issues, partnered with GreenBlue Urban and Leicestershire County Council to implement a two-phase flood mitigation project. The first phase involved installing SuDSPods to divert 50% of roof water away from public sewers, reducing flood risk and enhancing school infrastructure.

The project, successfully improved drainage and engaged students in green initiatives.



Hull University

Hull University installed a trial SuDSPod with monitoring equipment to measure inflow and outflow, with monthly data summaries provided. Monitoring will continue for two years, and all collected data will be made openly available on their data-sharing platform.



Severn Trent

As part of the renowned Mansfield sustainable flood resilience programme, Severn Trent collaborated with the Coal Authority for a SuDSPod trial at their head office. With installation complete, long-term monitoring by a PhD student from Sheffield University will evaluate performance alongside other interventions on-site.



Southern Water

With various SuDSPod installations taking place including locations in Chichester, Portsmouth and the Isle of Wight, Southern Water are trialling various interventions as part of their Pathfinder projects. A community-based solutions programme to reduce storm overflows by slowing surface water entering sewers and preventing groundwater infiltration.



United Utilities

The installation at Lingley Mere headquarters involved three SuDSPods to manage stormwater by capturing runoff from roof downpipes at the Northern Gatehouse building, easing pressure on combined sewer systems during storms.

This installation, along with future monitoring and additional SuDSPods on site, demonstrates the importance of reducing stormwater impact on infrastructure.



Wessex Water

Addressing storm overflow issues in Ubley, Somerset six SuDSPods were installed. By diverting rainwater from combined sewer systems to reduce overflows during heavy rainfall and protecting rivers.

Despite challenges, the project has been positively received. Highlighting collaboration is key for successful sustainable drainage projects. The success has laid a foundation for expanded use of SuDSPods across the region.





SuDSPod

On plot attenuation