



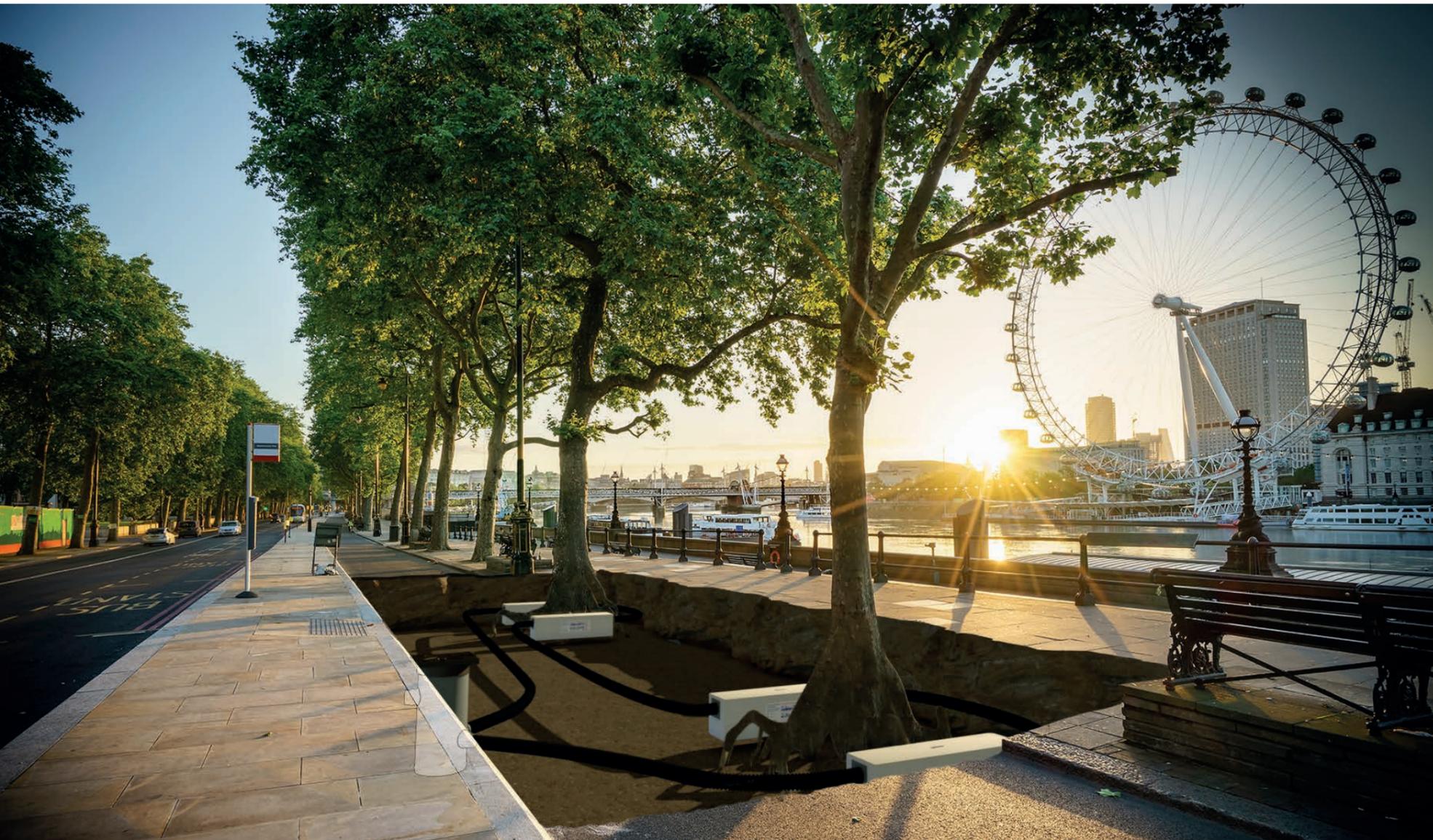
HYDROROCK®

future of sustainable water management



Groundbreaking solutions

IN THE PREVENTION OF
FLOODING AND DROUGHT



The future of sustainable drainage systems

Introducing the Hydorock Aquifer Block, the key component at the heart of a wide range of innovative, environment friendly and cost effective sustainable drainage systems, which are set to change the way we manage rainwater in the UK and across the rest of the world.



Developed in The Netherlands, a country renowned for its Global expertise in water management, Hydorock Aquifer Blocks are the result of nearly 10 years of research and development by Rockwool, the market leader in mineral wool technology and Rotterdam based company Asbipro.

Now available in the UK, Hydorock Aquifer Blocks already have an enviable track record of success across the globe. They have been extensively used on major projects across Europe and form the basis of 'Sponge Cities' in China and most particularly Singapore where they are providing an effective solution in the management of excess rainwater.



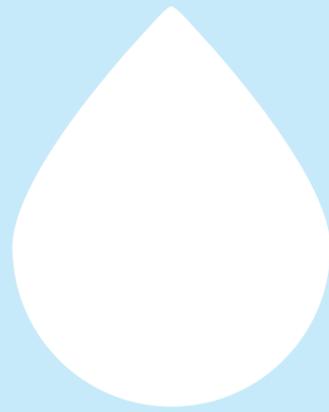
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Find out more: www.hydorocksolutions.com

HYDROROCK AQUIFER BLOCKS

the technology



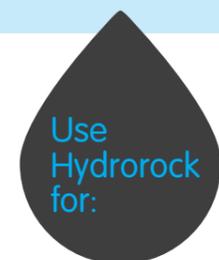
It is the simplicity in the manufacture of every Hydrorock Aquifer Block that has contributed towards its success. Each consists of a mineral wool core which has been designed to absorb liquid at an astonishing rate, holding around 94% water of its cubic volume – a cubic metre of Hydrorock holds around 940 litres of water.

Water is retained within the capillaries of the Aquifer Block or moved in and out through them by the water pressure differential inside the Aquifer Block and the surrounding soil. When the water pressure is equal between the Aquifer Block and the soil, water is retained within it and as the moisture level of the soil drops as it dries, so does the water pressure and water is released back into the soil.

Technically and scientifically, Hydrorock out performs every other type of water management system because of the unique ability of Aquifer Blocks to support the weight of the water within them means that

there is much lower hydrostatic pressure on the soil beneath. This prevents compaction and enables infiltration across the whole surface area of the bottom and the four sides.

This is why Hydrorock Aquifer Blocks effectively manage and control the water which would otherwise have been washed away down storm drains or which could have contributed towards flash floods, unlike alternative systems such as 'crate sumps' which simply store water and have no effective solution to recycle it when the surrounding soil is saturated.



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HYDROROCK AQUIFER BLOCKS

the cost effective solution



In general terms Hydrorock Aquifer Blocks, when comparing direct material costs are around 10% less expensive than alternative systems such as 'crate sumps.' Savings can be even more significant as fewer Aquifer Blocks are required for most installations to achieve the same result.

It is during the installation process where the biggest savings can be made. It takes around half as much time to install a system with Aquifer Blocks than it does crates. Holes or trenches are usually smaller and can be backfilled to speed up installation still further.

Hydrorock Aquifer Blocks also offer contractors and designers greater flexibility as they can be strategically placed at different locations around a site, where they are most needed and if required, linked by a series of pipes.



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HYDROROCK AQUIFER BLOCKS

the environmental solution

Every component within an Aquifer Block is completely natural and will last for the lifetime of any building it is protecting. More importantly there is no danger of plastics entering the water table.

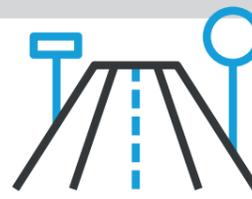
Hydrorock Aquifer Blocks are also extremely tough and can be trafficked, even under car park decks being able to bare weights of up to 2,000 Kgs per sq metre.

HYDROROCK AQUIFER BLOCKS

the versatile solution

Aquifer Blocks can be supplied in almost any size which means they can be used on a wide range of applications and can meet virtually every design consideration. It means they can be used in both green and

blue roof designs and are equally effective when used in conjunction with highway development, commercial and residential applications, civil engineering projects and much more.



HIGHWAYS

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HYDROROCK AQUIFER BLOCKS

the product range

The system succeeds due to its simplicity with Aquifer Blocks capable of delivering a wide range of applications. Separate Data Sheets are supplied for each of the systems in five different categories.

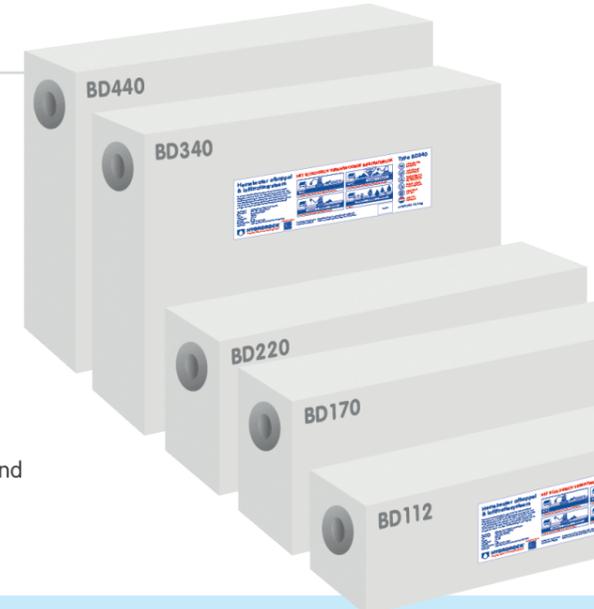
- ◆ These are: Drainage and Buffer System Type D. Application: drainage and water buffering around buildings, pavements and gardens.
- ◆ Separation and Infiltration System. Application: separating rainwater in homes, businesses, carports and garages. Separating water from storm drains and pavement drainage points.
- ◆ Channel Drains with Buffer. Application: around pavements and in gardens. (Without connection to the sewer system).
- ◆ Infiltration drain with built-in Buffer. Application: buffer under outside faucets, rainwater drainage systems, terraces and paved areas.
- ◆ Accessories. Application: pavement and gardens (Without connection to sewage system).

HYDROROCK AQUIFER BLOCKS

in action

Hydrorock Aquifer Blocks have been used on major projects across the world and consistently provide sustainable drainage solutions across a wide range

of challenging situations. The systems represent the future of sustainable drainage at a value for money price and with no harm to the environment.



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