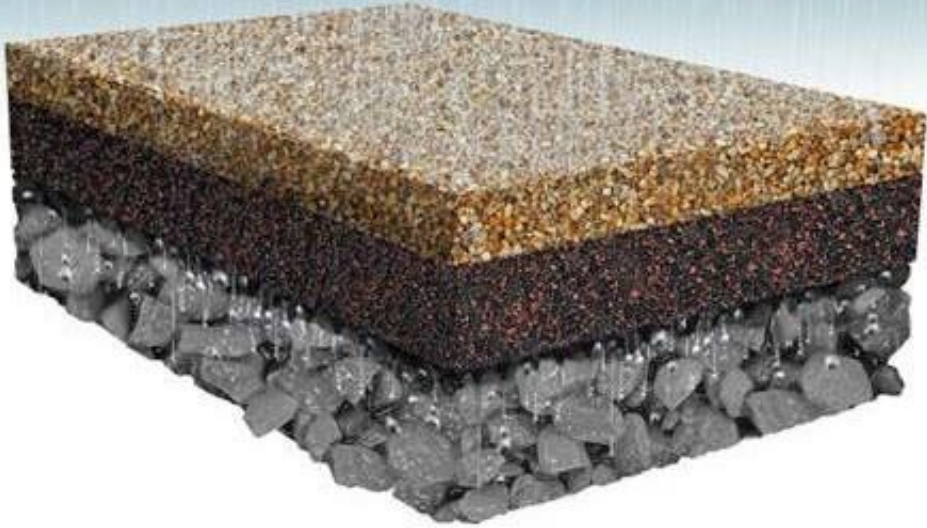




**SUDSTECH**  
PERMEABLE PAVING SOLUTIONS



**LEADING INNOVATIONS IN  
SUSTAINABLE URBAN DRAINAGE**



# What is Sudstech?

The Sudstech permeable paving system is an eco friendly SUDS-compliant , water management solution, developed for both the commercial and public sectors.

Unlike other resin bound surfaces the Sudstech system utilises a unique sub-base comprised of resin bound aggregate and recycled tyres. The slight flexibility offered by our unique sub- base allows fines that would usually facilitate weed growth to agitate through the surface ensuring the system will never clog. Unlike other resin bound products water is able to freeze and thaw within the Sudstech system eliminating the risk of frost damage such as cracking and delamination.

The Sudstech system has been developed over the past 10 years and has been rigorously tested at the British Research Establishment (BRE) for both impact and freeze thaw.

The use of a Sudstech surfacing could achieve up to 4 BREEAM under the revised 2011 rating.

Sudstech requires no additional drainage, minimal ground works and virtually no maintenance across its life span, making it one of the most cost effective paving products on the market today.



- **SUDS Compliant, Totally Permeable, BREEAM Accredited**
- **2 Part Cold Poured System**
- **High Density Range Available For Increased Weight Loading**
- **Minimal Dig Out**
- **Unique Patented System Utilising A Recycled Tyre Sub base**
- **No Need For Tarmac Or Concrete**
- **Fast Installation, Extremely Durable , Low Maintenance**
- **Full 360 Degree Attenuation, Effective Hydrobrake**
- **BRE Tested For Impact and Freeze Thaw**
- **High Slip Resistance**
- **Available In a Variety Of Colours Options**

# Why Choose Sudstech?

## Public Realm And Urban Areas

Because of its high slip resistance value Sudstech is ideally suited for use in public realm spaces. The permeable system is never subject to standing water or ice making it an ideal surface for pedestrians with limited mobility.

## No Additional Drainage Required

Because the Sudstech system is 100% permeable it can be used as an effective soak away. This alleviates the need for any additional drainage. Sudstech is capable of processing in excess of 50,000 litres of rain water per meter per hour, making it possible for Sudstech to be used in place of swales or attenuation ponds subsequently reducing cost and helping the environment.

## Cleaner Water

Phosphates and nitrates are reduced as rain water percolates through the surface to recharge groundwater ,returning cleaner water to the ground in line with the 2015 clean water directive.





# Applications

- Footpaths
- Access Roads
- Car Parks
- Playgrounds
- Driveways
- Woodland Trails
- Bridleways
- Cycle Paths
- Golf Courses
- Playgrounds
- Swimming Pool Surrounds
- Drainage Channels
- Hard Landscaping
- Water Harvesting
- Public Areas



# Tree Pits & Bespoke Designs

## Tree Pits

Sudstech is suitable for use around all types of tree pits. Because of its versatile nature, the material can often be used to repair pits which have suffered damage due to root intrusion.

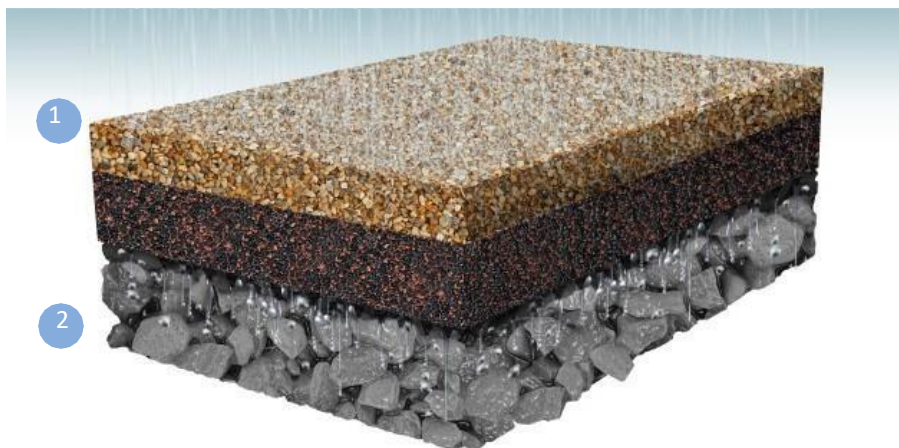
Trees that are unable to access sufficient water will expand their root network. This process can potentially cause damage to pavements, roads and underground sewer & transport systems. This damage costs the UK taxpayer millions of pounds in increased maintenance works and subsequent delays to the nations transport network. Sudstech allows the free flow of air, water and nutrients to the tree roots through its permeable structure allowing trees to flourish.

## Bespoke Designs

Sudstech also offer a bespoke service to incorporate custom designs in to your surface such as corporate logos, club shields or traffic markings. By using resin bound recycled glass on top of our patented Sudstech rubber sub base we are able to include vivid colours to match your design specification.



# Sudstech Patented Permeable Paving System



## 1 - Sudstech Permeable Paving (50mm)

Our top wearing surface consists of a blend of aggregates mixed with our own unique tensile resins, specially formulated to work in collaboration with our innovative flexible base made up of a unique blend of recycled cross cut rubber of different densities and size as well as particles of recycled plastic to form a patented flexible permeable base. This creates a fully permeable system that acts independently to sub base offering a 50mm 360 degree SuDs compliant system. Resistant to both clogging and freeze thaw this layer can be laid extremely quickly, without falls. No additional drainage is required as Sudstech is a highly effective soakaway and the area can be trafficked in under 24 hours after completion of works

**2 - Prepared Granular Sub-Base 150 - 200mm (compacted type 3 aggregate with reduced or zero fines)** Laid by others type 3 granular sub-base, 4/20mm graded crushed concrete aggregate to En12620 or locally available secondary or recycled aggregates which comply with the above specification. The use of a clean angular stone also performs as an effective water reservoir, storing water until it can be absorbed back into the ground. Highway Agency requirements dictate a structural layer design in areas where heavy vehicles pass. The thickness of the sub base layer required is dependent on the sub base soil conditions and expected loading. If heavy clay or a silty subgrade is present (CBR>2%) then a granular capping layer or permeable geotextile may be necessary. If in doubt seek advice.



## Maintenance Free

Sudstech allows small fines/grit to agitate through the surface as the area is used. This produces a hostile environment for weeds and seedlings. Sudstech allows expansion and contraction and is unaffected by extremes in temperature which may otherwise cause damage due to the freeze thaw process.

## Fast Installation

Sudstech can be laid extremely quickly using minimal equipment, reducing disruption to the public. Once installed Sudstech is completely cured and ready to use within 24 hours.

## Sudstech is Effective on Heavy Clay Soils

Sudstech can act as an effective soak away even on heavy clay soils, with minimal changes to our typical ground work specification.

## Superior Aesthetics

Sudstech offers a seamless and extremely versatile high spec finish. Fitting almost all surroundings, our installations have ranged from heritage sites and ancient monuments to modern urban environments and cutting edge public realm spaces.







**Twiss**



**Avoca**



**Tweed**



**Devon**



**Dean**



**Mersey**

**Sudstech Carries a 10  
Year Continuous  
Permeability Guarantee**



## Legislation

SUDS (Sustainable Urban Drainage solution) is a new legislation brought into action alongside the water management act 2010. SUDS is now a legal requirement in planning to prevent surface water runoff and the severe environmental impacts it causes.

## Recycling

In addition to Sudstech's water dispersal properties it also has the significant benefit of using the equivalent of 3 recycled tyres for every square meter of paving. This helps reduce a major recycling problem.

## Environment

Rapid water runoff from hard paving has severe environmental impacts. These include downstream flooding, the transfer of pollutants into watercourses and depletion of ground water levels.

## Solution

Sudstech's unique solution overcomes these problems by allowing drainage infiltration on site. This is the preferred water dispersal option of the Environment Agency and the focus of the SUDS legislation.





# Our Clients Include



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