

SUSTAINABLE 'ZERO-DISCHARGE' DRAINAGE SYSTEM



SudsSportsTM
Sustainable Drainage System from Thornton Sports





SUDSPORTS 'ZERO-DISCHARGE' SYSTEM WHAT IS IT?

A sustainable and cost-effective combined sports surface and water management system, incorporating a lightweight plastic sub-base replacement.

SYSTEM BENEFITS

WATER MANAGEMENT

- Zero pitch discharge rate achievable
- Prevents exceeding of green field run off rate
- Shallow attenuation (up to 450 cu m per standard 6,000 sq m pitch)
- Shallow infiltration – effective even in low permeability soils
- Shallow drainage – ideal for linking to swales and basins
- Rainwater harvesting facility
- Flood compensation facility

LIGHTWEIGHT CONSTRUCTION

- Ideal for abnormal ground conditions
- Lower CBR required at formation
- Minimised CDM / H&S implications
- Typically no nett surcharge to underlying formation
- Provides tree root protection
- No heavy construction plant required

CONSISTENCY

- No variability in sub-base quality
- No variability in compaction of sub-base
- Cost certainty

SUSTAINABILITY

- Recycled, recyclable, reusable system
- Minimises need for quarried aggregates
- Reduces vehicle movements (by a factor of 21:1)
- No macadam layer required, avoiding possible contamination legacy
- SUDS and rainwater harvesting facility

COST EFFECTIVENESS

- Low cost attenuation
- No under-pitch drainage pipes required
- Reduced excavation requirements
- Ground improvement rarely required at formation / base
- No sub-base aggregate import costs (particularly advantageous in areas where aggregate costs are at a premium)
- Less susceptible to delays due to adverse weather

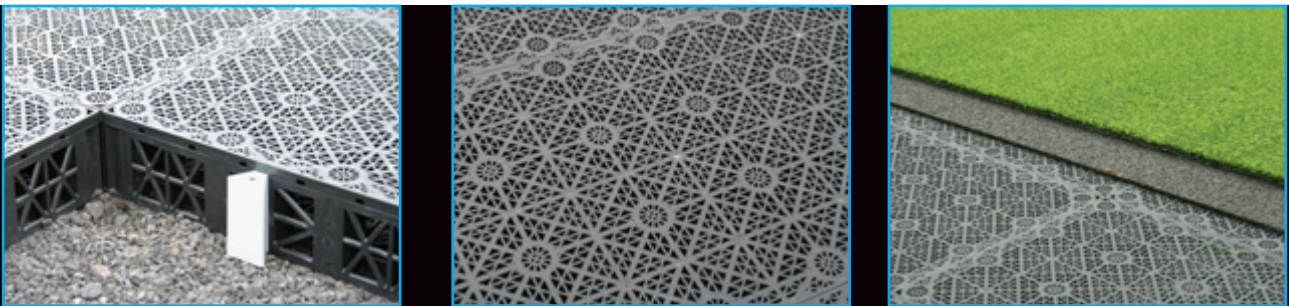
SYSTEM FEATURES

- 95% factory formed void ratio
- 85mm thick
- Lightweight (less than 9 kg/sq m)
- Interlocking to create raft
- Load capacity in excess of 70 tonnes/sq m
- Recycled, recyclable, reusable material
- Retro-fit solution
- Sport England compliant

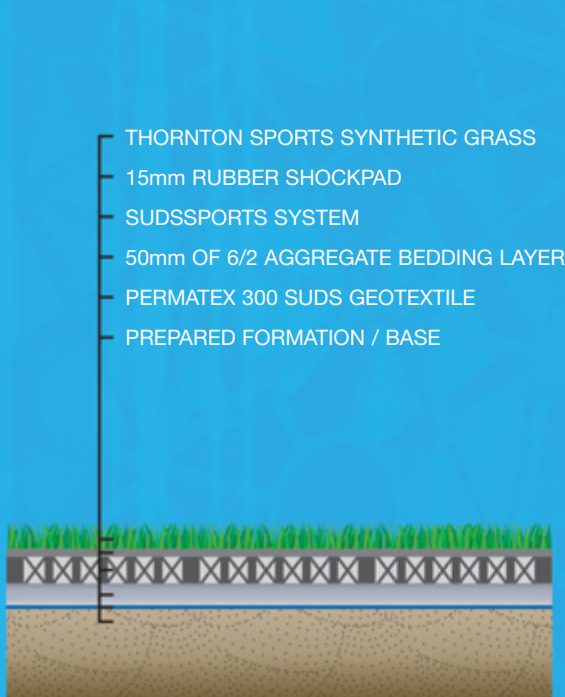
SYSTEM USES

Ideal for sports surface projects incorporating sites with:

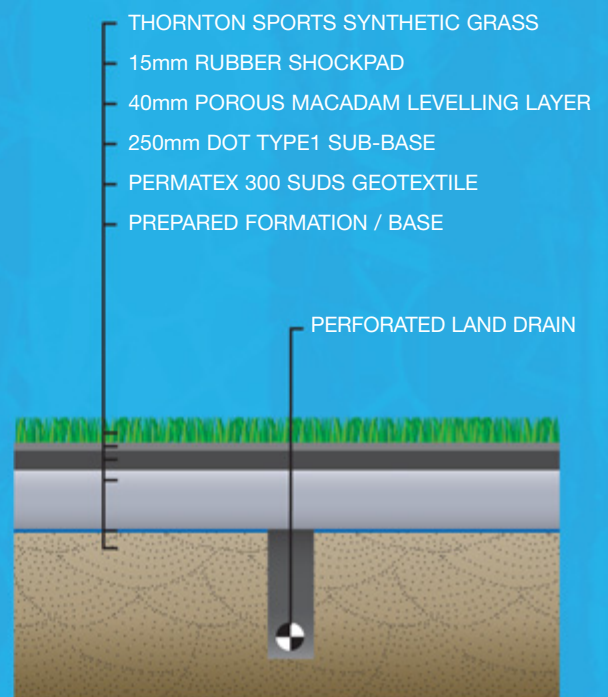
- SUDS requirements
- High susceptibility to flooding
- Low permeability soils
- Low lying pitches
- Regularly saturated surfaces
- Abnormal ground conditions
- Sloping site levels
- Rainwater harvesting requirements
- Ineffective existing water management systems



TYPICAL CONSTRUCTION



**TYPICAL SUDSPORTS
 PITCH CROSS SECTION**



**TYPICAL CONVENTIONAL
 PITCH CROSS SECTION**

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ThorntonSports

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🇬🇧 UK Manufacturer of Synthetic Grass 🇬🇧

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