



# SPORTFIX<sup>®</sup>CLEAN

Retention of 98 % microplastic  
(infill material and blades of grass)  
from artificial turf pitches



ENVIRONMENTAL  
TECHNOLOGY AWARD  
BADEN-WÜRTTEMBERG 2019

1<sup>ST</sup> PRIZE

CATEGORY 3  
EMISSION REDUCTION,  
TREATMENT & SEPARATION

# SPORTFIX® CLEAN

Catchment of microplastics from artificial turf pitches.

## 1 Requirements

Drainage channels for artificial turf pitches have to

- offer reliable drainage and infiltration
- collect all infill material and broken artificial blades of grass (=microplastics) before water is led to a sewer system

## 2 Application areas

- Hockey pitches
- Football pitches
- Rugby pitches
- Leisure sports grounds made of artificial turf

## 3 Solutions

Therefore SPORTFIX CLEAN channels are suitable for runoff treatment from artificial turf pitches and:

- comply to German Standard DWA-A-178
- treat 93 % of the total annual runoff covering rainfall intensities up to 20 l/(s\*ha)

## Key Benefits

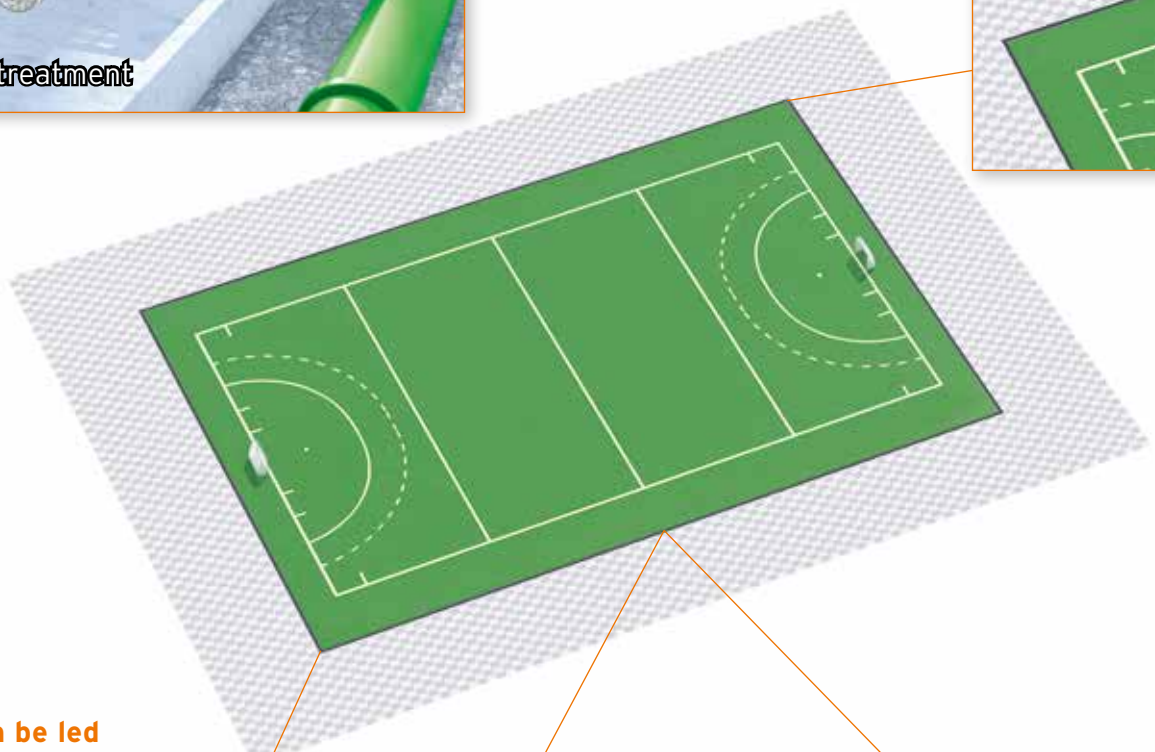
- ✓ effective solution for collecting microplastics from artificial turf pitches
- ✓ modular system for all demands and applications
- ✓ according to regulations of DWA (= German Association of Water)



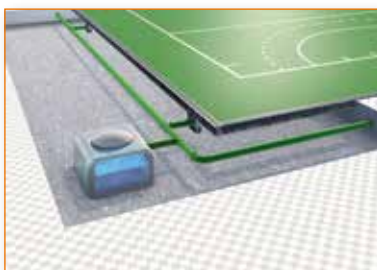
**SPORTFIX®CLEAN channels can be used in many ways.**



**Corner connection**



**Water can be led from channel to ring main and then to a cistern**



**Connection to ring main can be done via:**



**Possible surface layers for surrounding:**



## Various functions of **SPORTFIX®**CLEAN



### Runoff treatment (infiltration)

**SPORTFIX®**CLEAN 100 Type 020 with GUGI mesh grating and infiltration pipe in combination with **CARBOTEC®**60 substratum for drainage and treatment of storm water runoff from artificial turf pitches.

#### In short:

Storm water treatment with **SPORTFIX®**CLEAN = removal of pollutants and infill material in the runoff. The following three application examples could be covered:

#### 1. Microplastics from artificial turf pitches

Microplastics resulting from the abrasion of infill material and fibres from artificial turf pitches will be removed, even down to very small particle sizes ( $> 0,45 \mu\text{m}$ ).



#### 2. Fine dust and pollutants

Deposited pollutants like fine dust containing heavy metals, soot particles, polycyclic aromatic hydrocarbons (PAH) etc. will be removed with high efficiency ( $> 98 \%$ ).

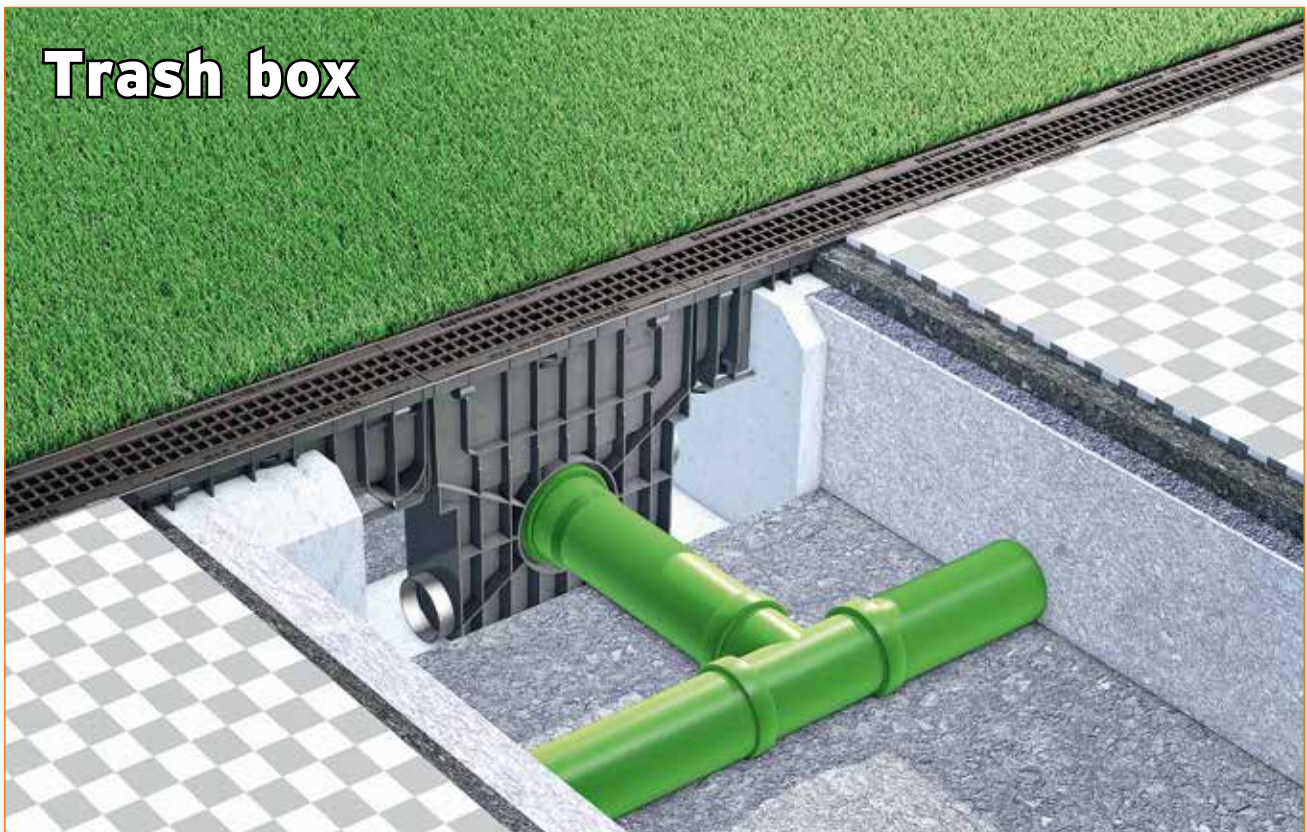
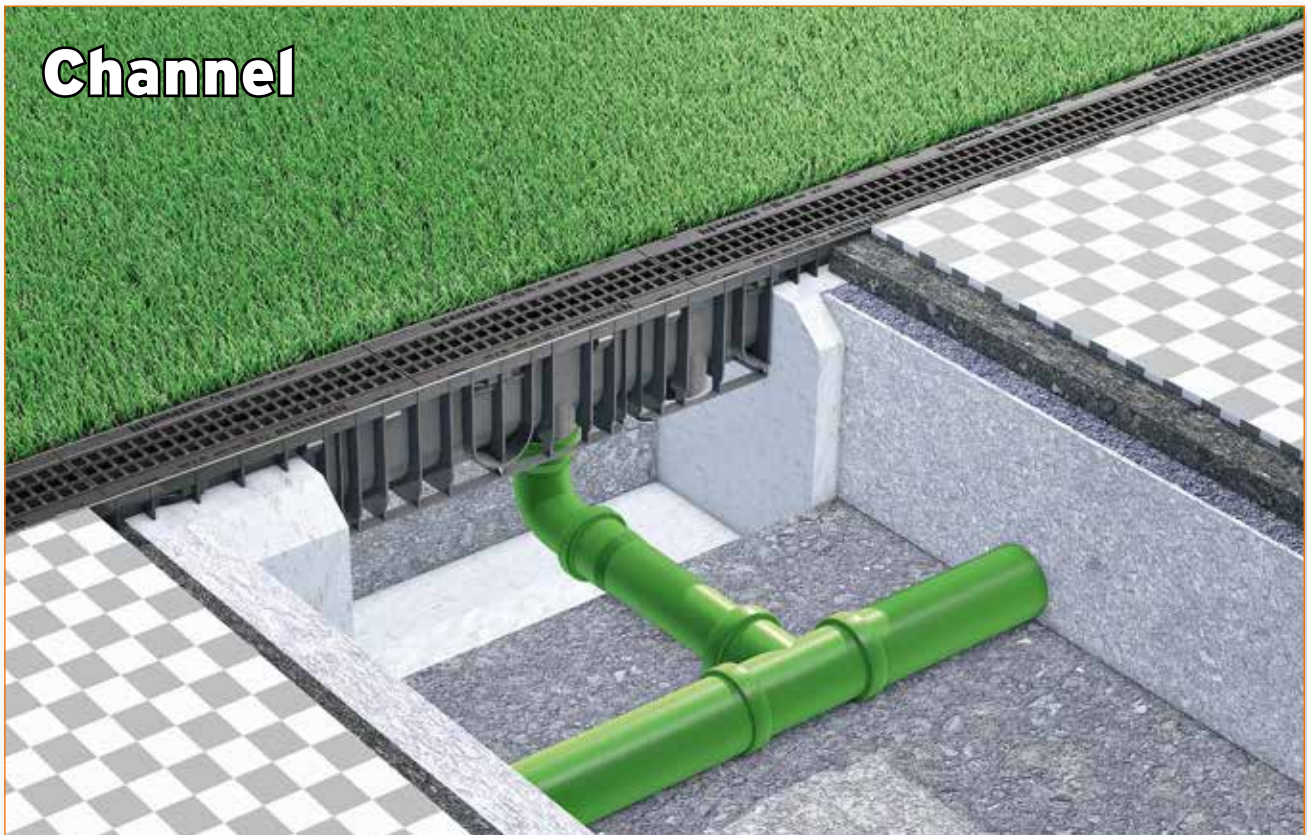


#### 3. Organic loads

Foliage, organic waste, pollen etc. will be filtered out. The purified water can thus be collected, stored and used to irrigate artificial turf pitches or other surfaces.



## Detailed illustration for connection to pipe:



# LESS STRESS. MORE SUPPORT. MORE SECURITY.

The magnitude makes the difference - we provide you with constant advice and assistance. Project support for all phases of the project.



## 1. Consultation

We support you right from the basic evaluation with expertise and know-how of all our products.



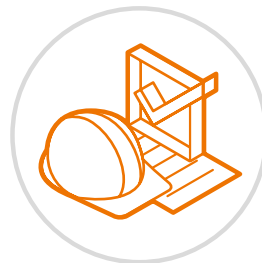
## 2. Planning

Our services cover the complete period of the planning phase.



## 3. Tender proposal

We work with you to develop everything you need to win the contract.



## 4. Planning process

In the implementation phase we prepare all individual documents for the planning process for you. Information tailored to your schedule enables you to begin work on time. We will then accompany you, if you wish, until the end of the project.

**Your contact for SPORTFIX®CLEAN channels:**

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# SPORTFIX® CLEAN - APPLICATION EXAMPLES





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