



SPORT

**Surface Drainage and other
products for Sports Venues**

Version 4.3



The product range for stadiums and sports venues

Modern construction products designed specifically for the use in sports venues

Modern sports venues in Germany have gained an excellent reputation all over the world. Top-level international competitions such as the Football World Cup and the 2009 World Athletic Championships held in Germany in recent years showed the stadiums in which they took place provided ideal conditions for both competitors and fans alike.

HAURATON SPORT products have also been specified at venues outside Germany. For example, at international events including the Euro Football Championship in Poland/Ukraine and the 2014 World World Football Championship in Brasil it was the company's responsibility to supply and install products that drained playing and surrounding surfaces reliably. The products shown in this catalogue have been designed especially for sports facilities and demonstrate Hauraton's expertise and competence in this field. This know-how has not failed to impress designers, engineers, clients and contractors alike.

HAURATON is member of IAKS





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Basic information for sports venues

The comprehensive product ranges for all sports facilities.

1 Requirements

Water has to be removed quickly and reliably from sports fields and competition areas. The drainage channels that are used have to comply with the latest standards and also meet IAAF requirements. Sports facilities should be designed and equipped to prevent serious injury to sportspeople if falls or accidents occur.



2 Solution

The SPORTFIX range offers products that comply with these requirements, e.g. drainage channels made from 100 % recycled PP which can be laid precisely around sport fields. These channels are break proof and lightweight, therefore quickly and easily installed. Soft kerbs with elastic rubber padding, sand traps, water jump kit and distribution shafts also belong to our product range.

3 Application areas

- ☐ Sports facilities with synthetic running tracks
- ☐ Sports facilities with artificial grass surfaces
- ☐ Sports facilities with natural grass
- ☐ Hockey pitches
- ☐ Jumping pits
- ☐ Water jump kits
- ☐ Mini pitches
- ☐ Tennis courts
- ☐ Playgrounds
- ☐ Swimming pools



Side drainage for running tracks



Slotted channel in the middle of the pitch

Benefits for designers

✓ Compliance with all international guidelines as set out by the IAAF

✓ Individual design support

✓ Service free of charge: hydraulic calculations, installation plans, project-specific tender proposals

Some HAURATON sport references out of thousands:

- Arena Corinthians in São Paulo, Brazil
- St.-Jakob-Stadion in Basel, Switzerland
- Estádio do Maracanã in Rio de Janeiro, Brazil
- Arena da Amazônia in Manaus, Brazil
- Easy Credit Stadium in Nuremberg, Germany
- Ceahlăul Stadion in Piatra Neamț, Romania
- Stadium Zvezdinskij in Moscow, Russia
- Red Star Stadium in Belgrade, Serbia
- Estádio da Luz in Lisbon, Portugal
- PGE Arena in Gdansk, Poland
- National Stadium in Warsaw, Poland
- Stadium in Wrocław, Poland
- Multi-function Arena in Poznań, Poland
- Cenard Stadium in Buenos Aires, Argentina
- Khalifa Stadium in Doha, Qatar
- Stadium in Rennes, France
- MM Arena in Le Mans, France
- Cardiff City Stadium, UK
- Wembley Stadium in London, UK
- FC Emirates Stadium (Arsenal) in London, UK
- ...



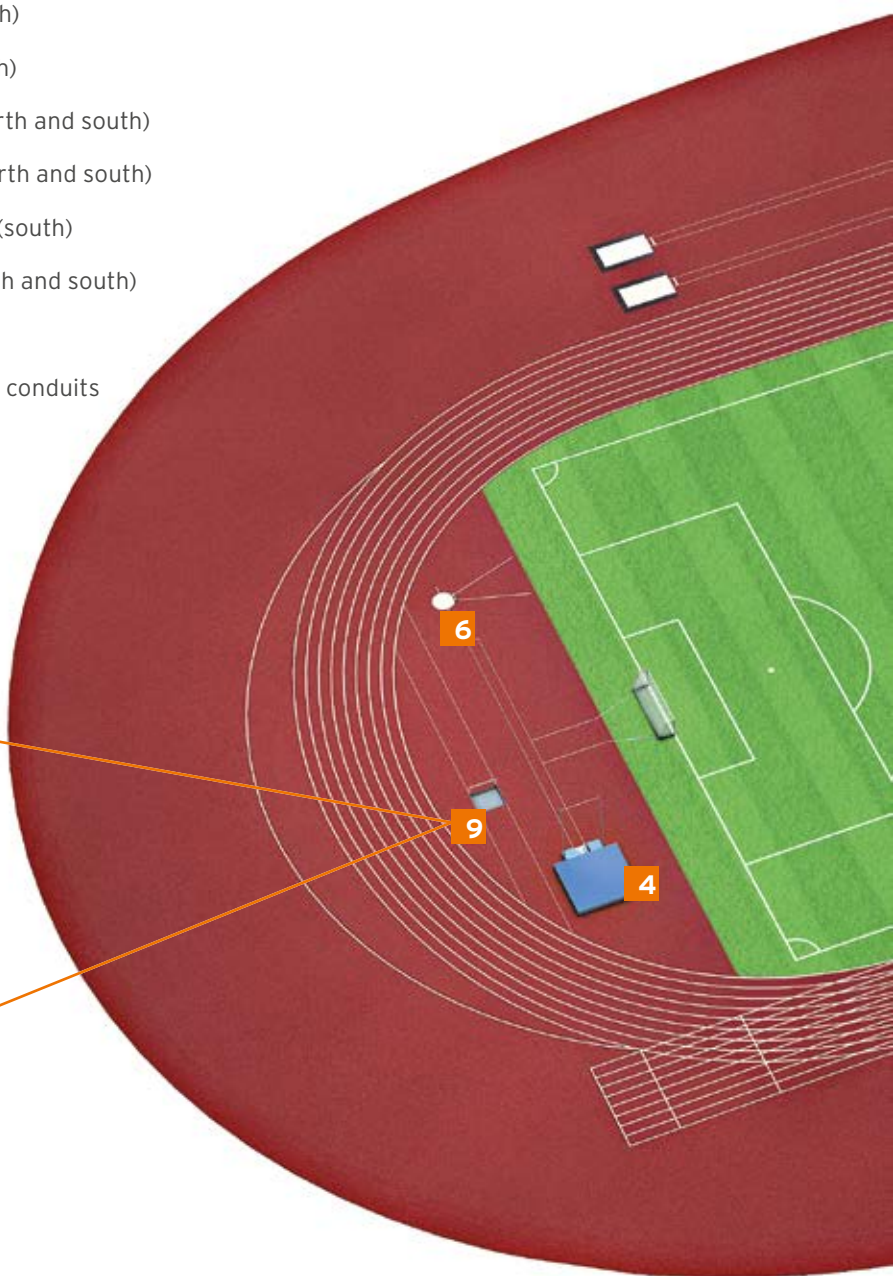
Equipment for athletic stadium and sports ground construction

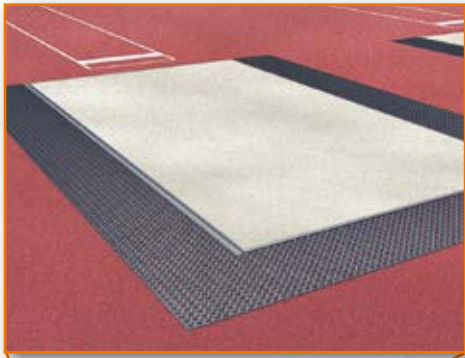
Sample arena:

- 1** Main pitch 68 m x 105 m
- 2** Eight lanes
- 3** High jump area in the segmented section (south)
- 4** Pole vault area in the segmented section (north)
- 5** Long jump area with two run-up directions (north and south)
- 6** Shot put area with two throwing directions (north and south)
- 7** Hammer throw area in the segmented section (south)
- 8** Javelin area with two throwing directions (north and south)
- 9** Includes water jump kit for steeplechase
- 10** Distribution shaft for electrical cables or water conduits



SPORTFIX® Water jump Aluminium - page 40
SPORTFIX® Hurdles - page 41





SPORTFIX® Soft kerbs - page 36
SPORTFIX® Sand traps - page 38



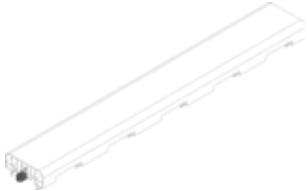
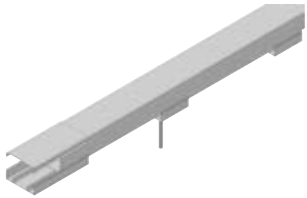
SPORTFIX® Distribution shafts - page 42

Drainage channels for **IAAF** facilities



	1	2	3	4	Accessory	
	SPORTFIX® Slotted channel	SPORTFIX® Channel	SPORTFIX® PRO	SPORTFIX® STANDARD	SPORTFIX® Trash boxes	
To be used in section ...	a b c	a b	a b	a b	a b c	a b
On page ...	16	16	18	24	26	of corresponding channel system







Boundary for **IAAF** facilities

Boundary	Compatible with channel ...	On page ...
SPORTFIX® Plastic covers 	<div>1</div> <div>2</div>	<div>17</div> <div>19</div>
SPORTFIX® Aluminium Curbings 	<div>1</div> <div>2</div> <div>3</div> <div>4</div>	<div>20</div>

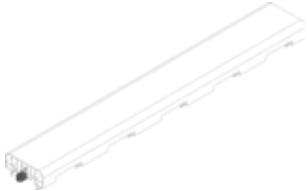
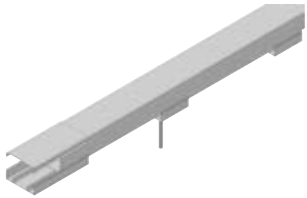
Drainage channels for **further** running tracks



All channel systems
can be combined and used
in every section **a b c** !

1	2	3	4	Accessory
SPORTFIX® Slotted channel	SPORTFIX® Channel	SPORTFIX®PRO	SPORTFIX® STANDARD	SPORTFIX® Trash boxes
 <p>without upstand</p> <p>with upstand</p>		<p>with FIBRETEC slotted grating</p>  <p>with GUGI- Grating</p> 		
16	16	18	24	26
				of corresponding channel system

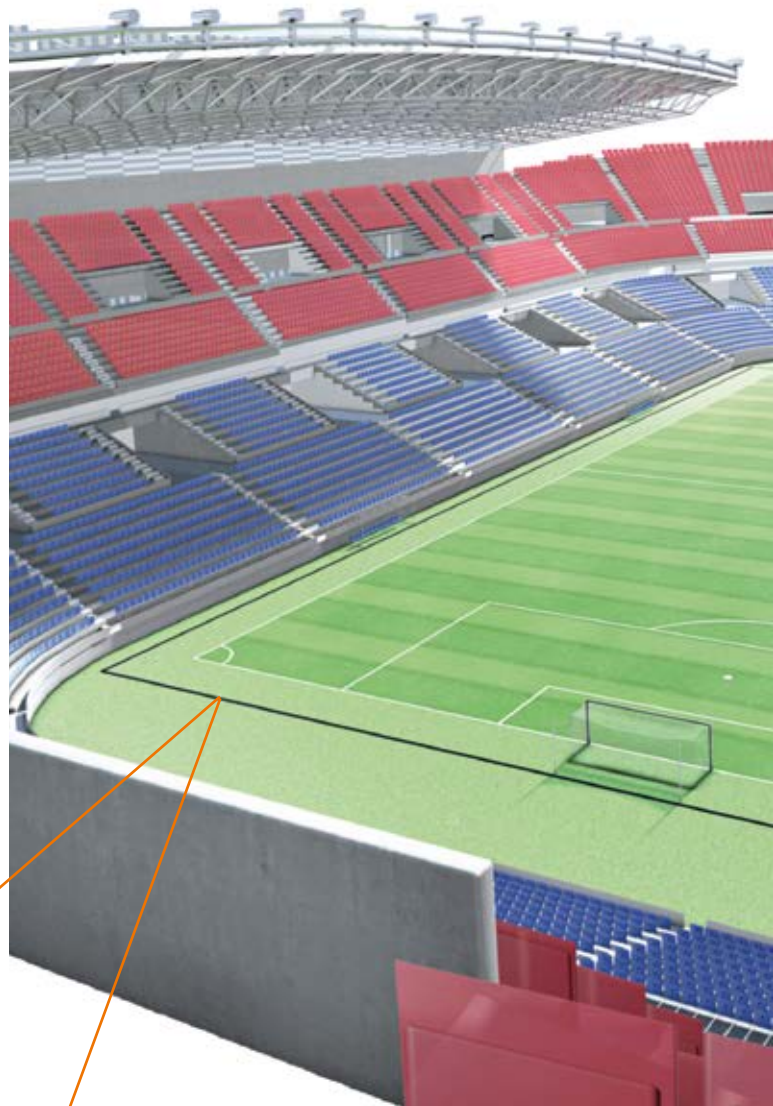
Boundary solutions

Boundary	Compatible with channel ...	On page ...
SPORTFIX® Plastic covers 	<div>1</div> <div>2</div>	<div>17</div> <div>19</div>
SPORTFIX® Aluminium Curbings 	<div>13</div> <div>24</div>	<div>20</div>

Equipment for football stadiums and sports facilities

HAURATON references for football stadiums:

- Arena Corinthians in São Paulo, Brazil
- St.-Jakob-Stadion in Basel, Switzerland
- Wembley Stadium in London, UK
- Stádio Municipal do Maracanã in Rio de Janeiro, Brazil
- Estádio da Luz in Lisbon, Portugal
- Khalifa Stadium in Doha, Qatar
- Arena da Amazônia in Manaus, Brazil
- FC Emirates Stadium (Arsenal) in London, UK
- Easy Credit Stadium in Nuremberg, Germany
- Stadium Zvezdovskij in Moscow, Russia
- PGE Arena in Gdansk, Poland
- National Stadium in Warsaw, Poland
- ...

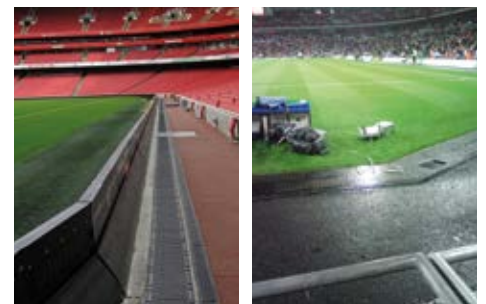


For hockey pitches :

SPORTFIX® Channel type ROME I
page 32

For artificial turf applications with filled
pole layer:

SPORTFIX® Channel type ROME II
page 33



SERVICE Channels
page 45

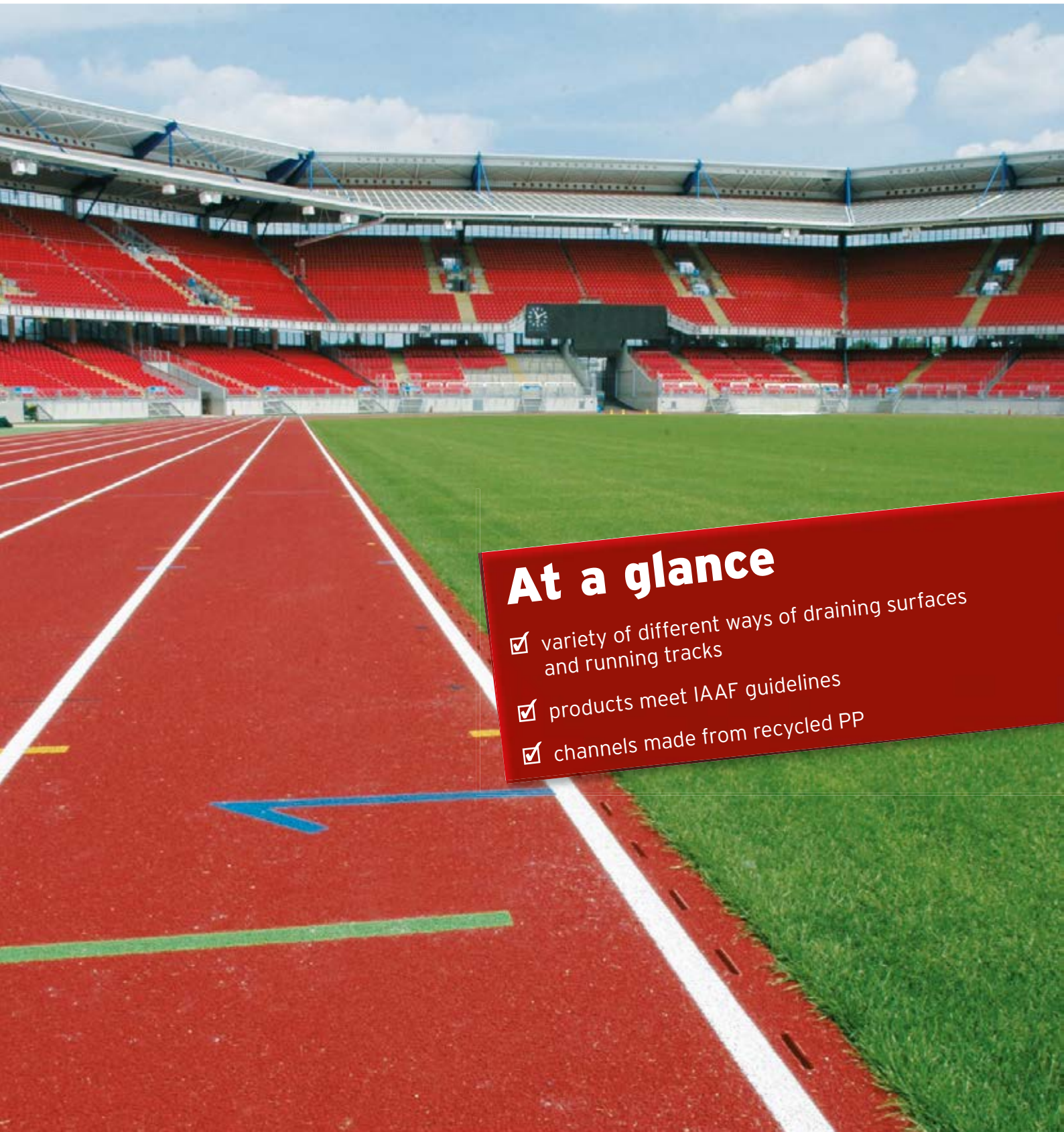


Drainage solution for filled artificial turfs - the filling material remains securely in the turf:
SPORTFIX® Channel type BASEL
page 36

SPORTFIX® Channels

Perfect drainage channels for IAAF accredited sports facilities.





At a glance

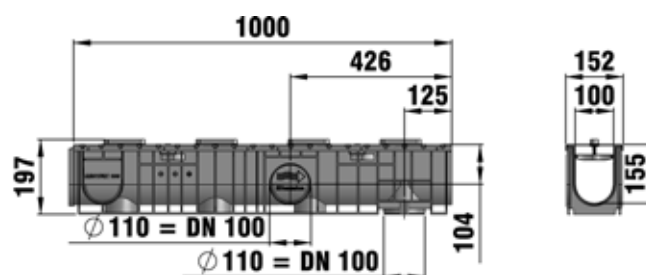
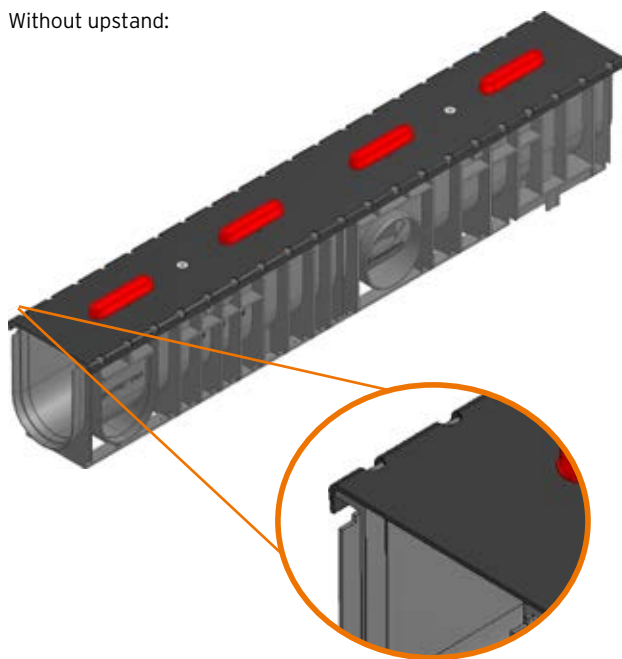
- ✓ variety of different ways of draining surfaces and running tracks
- ✓ products meet IAAF guidelines
- ✓ channels made from recycled PP

SPORTFIX® Slotted Channels

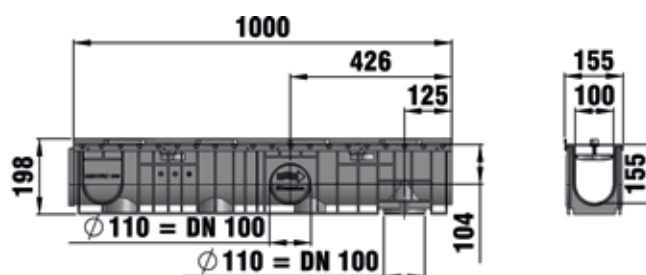
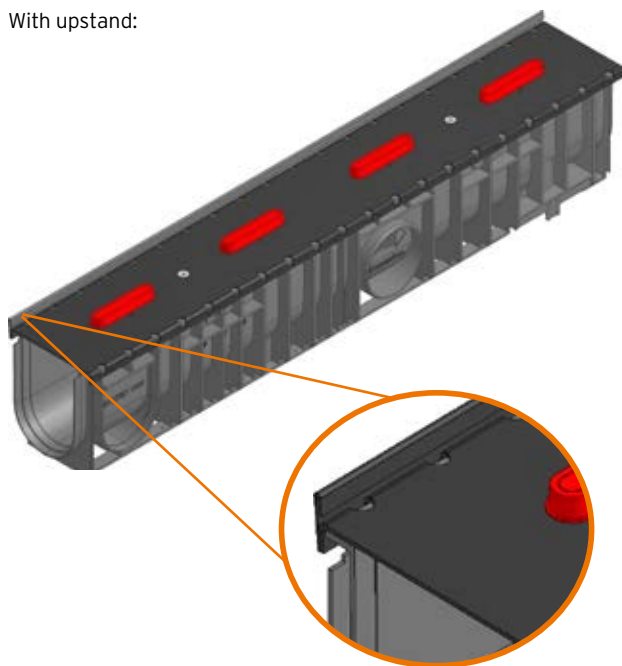
SPORTFIX® Slotted Channels

- CDP-coating to ensure a perfect join with the running track surface.
- EPDM slots that are easily opened using a screwdriver once the track surface has been laid.

Without upstand:



With upstand:

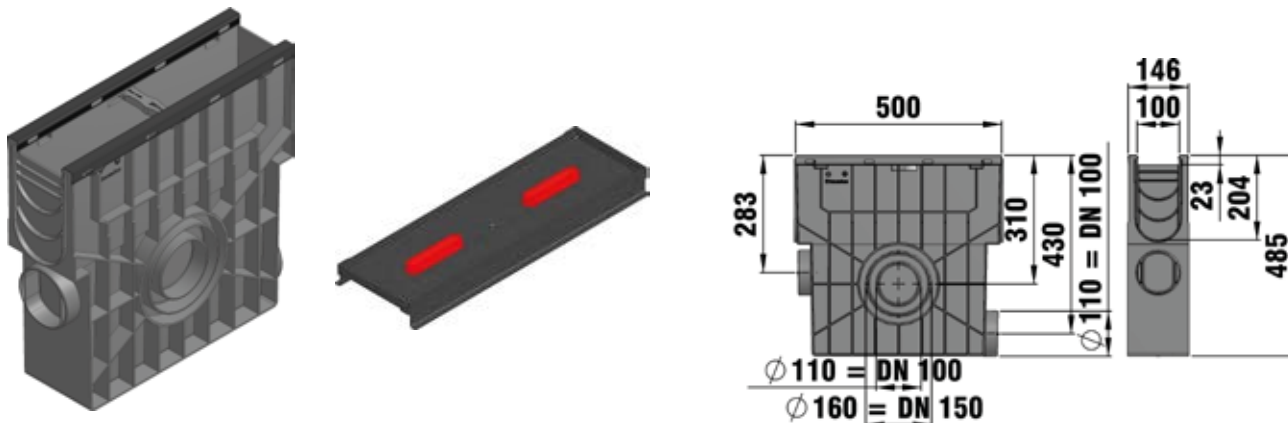


Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
without upstand, straight	1000	152	197	5,8	7810
with upstand, straight	1000	155	198	6,4	7820

SPORTFIX®Trash box

- made of PP
- fits seamlessly with the corresponding channel

Trash box 100 with mud bucket

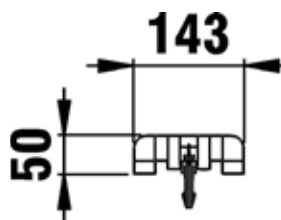
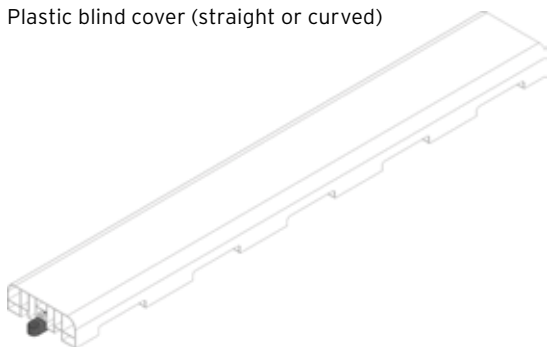


Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Trash box 100 with mud bucket	500	146	485	4,4	7830
Access cover, KTL-coated	500	168	41	2,8	7785

SPORTFIX®Plastic covers

- made from UV-resistant white composite
- resistant to frost and gritting material, do not absorb water and are unbreakable
- smooth surface preventing dirt accumulation
- quick and easy to fit and lock automatically into the SPORTFIX channels
- water flows into the channel on both sides of the cover

Plastic blind cover (straight or curved)



Type	For curved area/radius	Length mm	Width mm	Height mm	Weight kg	Item- no.
Plastic blind cover, straight	-	1000	143	50	1,5	7563
Plastic blind cover, curved	r = 36.5 m	1000	143	50	1,5	7564

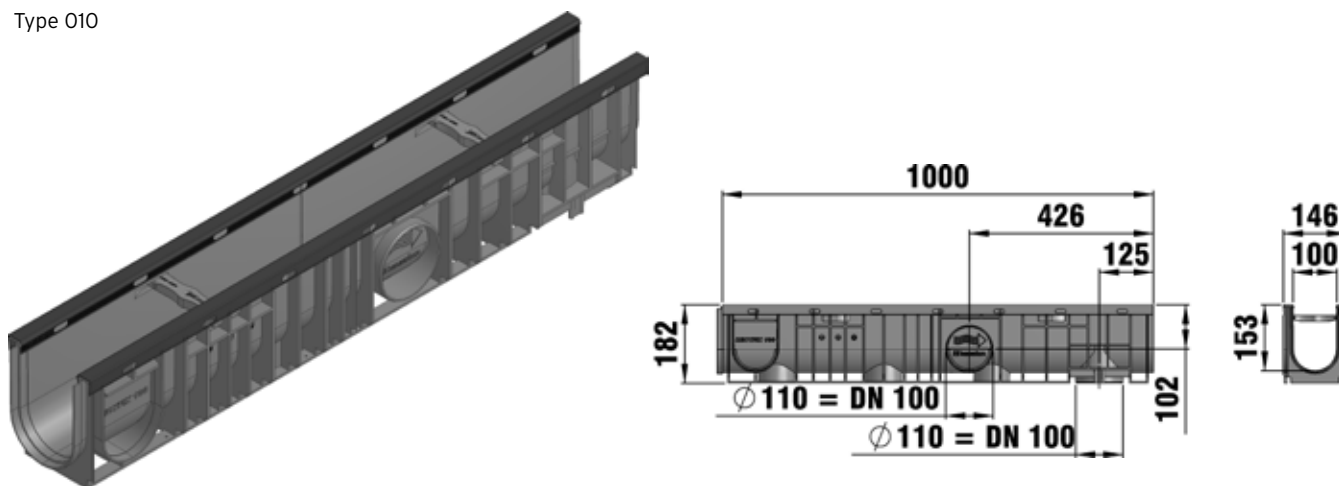
Optional Aluminium
Curbings - page 20

SPORTFIX®Channel

SPORTFIX®Channel

- ☐ PP material
- ☐ easy to install
- ☐ UV-resistant
- ☐ light and very durable

Type 010

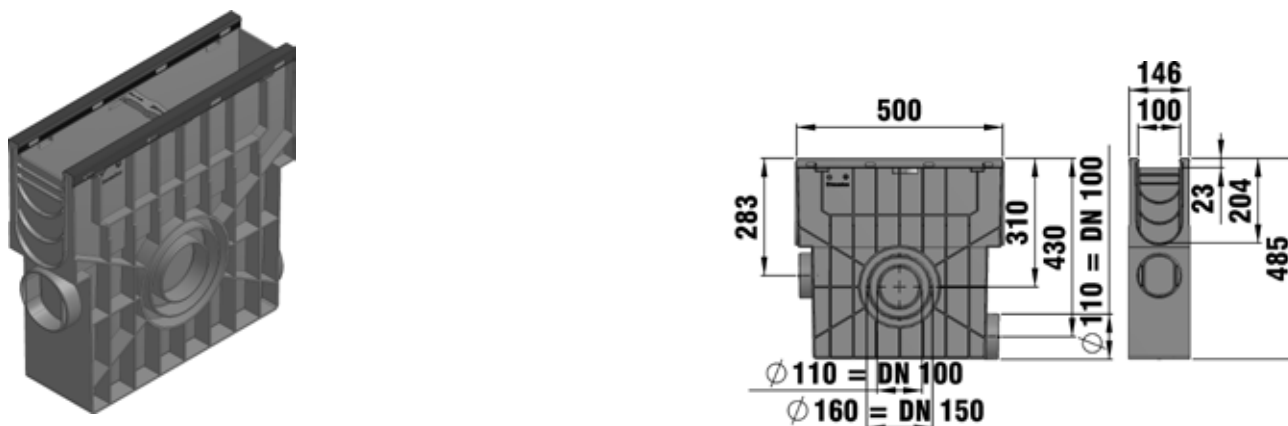


	Length mm	Width mm	Height mm	Weight kg	Item- no.
Type 010	1000	146	182	3,1	7800

SPORTFIX®Trash box

- ☐ made of PP
- ☐ fits seamlessly with the corresponding channel

Trash box 100 with mud bucket

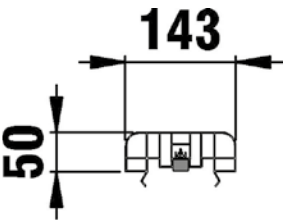
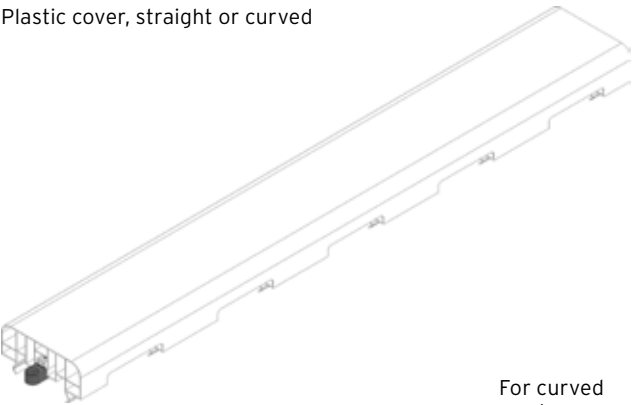


Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Trash box 100 with mud bucket	500	146	485	4,4	7830

SPORTFIX® Plastic covers

- made from UV-resistant white composite
- resistant to frost and gritting material, do not absorb water and are unbreakable
- smooth surface prevents dirt accumulation
- quick and easy to fit and lock automatically into the SPORTFIX channel
- water flows into the channel from both sides of the cover

Plastic cover, straight or curved



	For curved area/radius	Length mm	Width mm	Height mm	Weight kg	Item- no.
Plastic cover, straight	-	1000	143	50	1,5	7560
Plastic cover, curved	r = 36.5 m	1000	143	50	1,5	7561



Optional Aluminium
Curbings - page 20

SPORTFIX® Aluminium Curbings

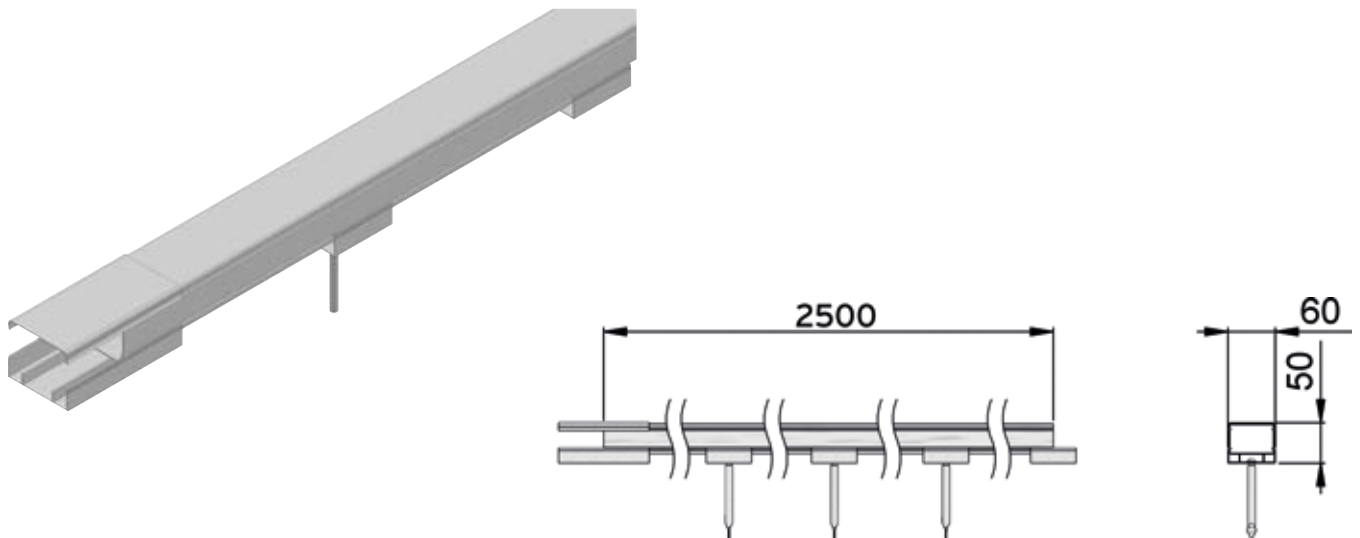
SPORTFIX® Aluminium Curbings

Many various events that are held at sport facilities often require moveable boundaries. Such boundaries may be provided and removed easily with SPORTFIX Aluminium Curbings.

The SPORTFIX Aluminium Curbings are suitable for the usage as mobile border for running track as well as a cover for slotted channels. They are manufactured as a complete unit with integrated push-in elements and fixing pegs.

SPORTFIX Aluminium Curbings are made of an aluminium-magnesium alloy. The set consists of straight and curved units of 2.5m length. The curbings have an intake on both sides.

Product complies with IAAF guidelines

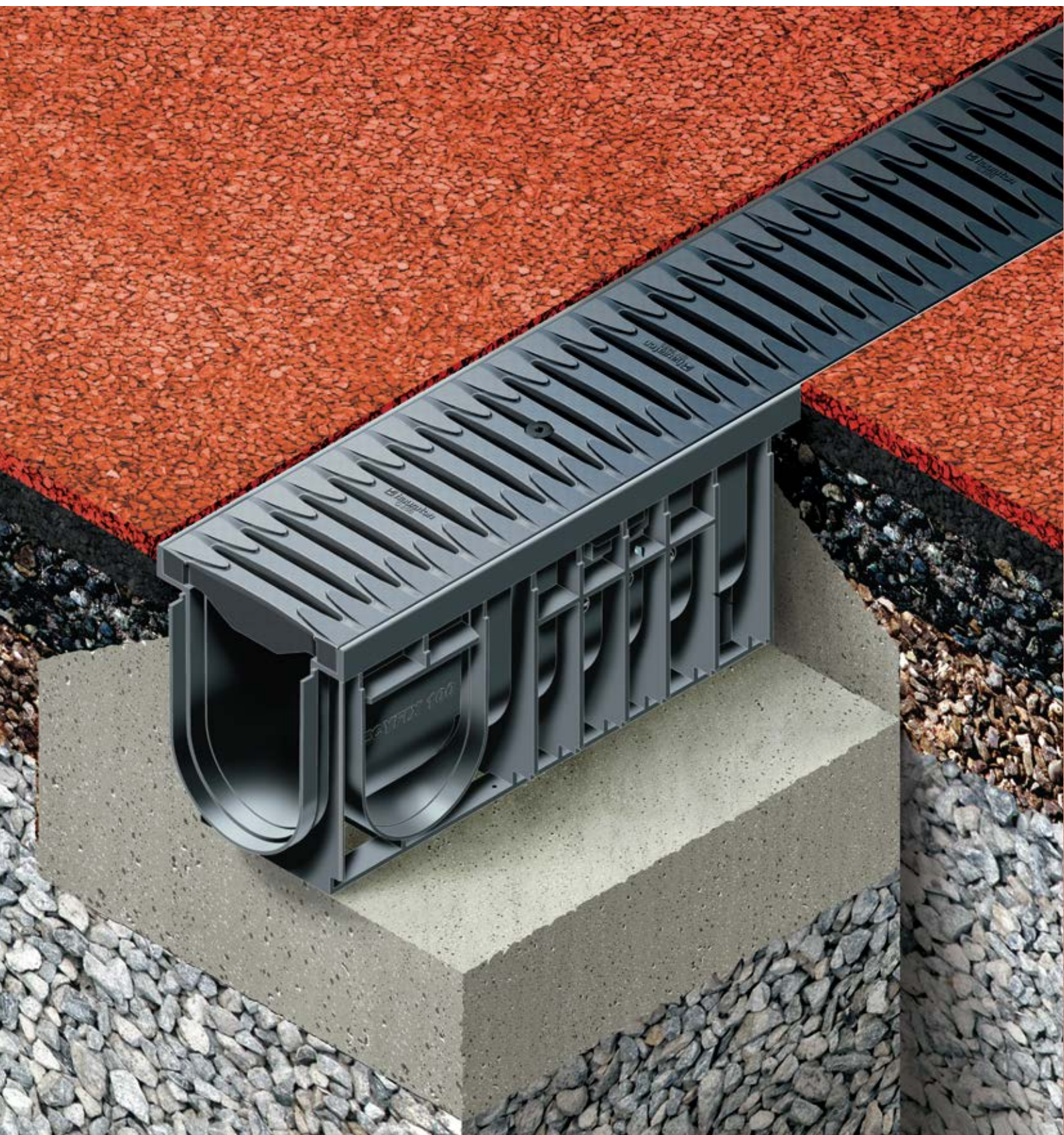


Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
set (160 pieces) for 400 m track, including fixing material	2500	60	50	406	7085



SPORTFIX® PRO

Light and durable track drainage.



The background of the entire page is a photograph of a grey, ribbed drainage channel installed in a reddish-brown surface, likely a sports field or track. The channel runs diagonally from the bottom left towards the top right, curving slightly.

At a glance

- ✓ channels made from recycled PP
- ✓ easy and fast to install
- ✓ installation in straight and curved areas possible

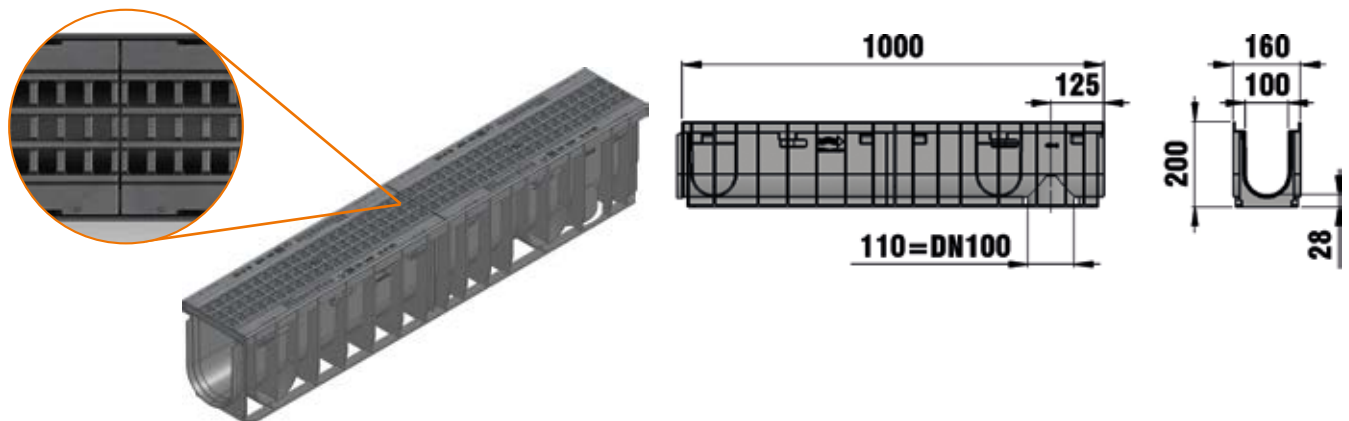
SPORTFIX®PRO

SPORTFIX®PRO Channels:

- channels made of PP and gratings made of high-quality PA-GF (Polyamide)
- drainage system according EN 1433
- lightweight, robust and easy to install
- no gap in the curved area through the groove and tongue system

SPORTFIX®PRO Channel, class B 125

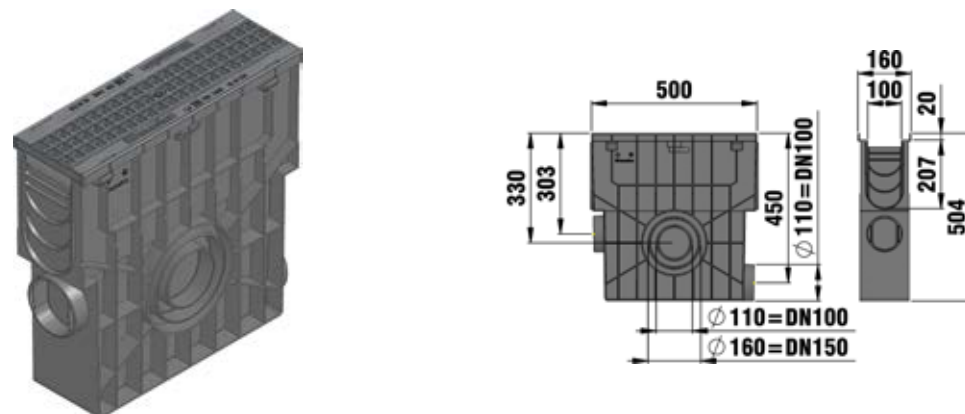
Type 010, with GUGI-Grating made of PA-GF, MW 15/25, black, locked



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Type 010, with GUGI-Grating made of PA-GF, MW 15/25, black, locked	1000	160	200	4,6	7510

SPORTFIX®PRO Trash box

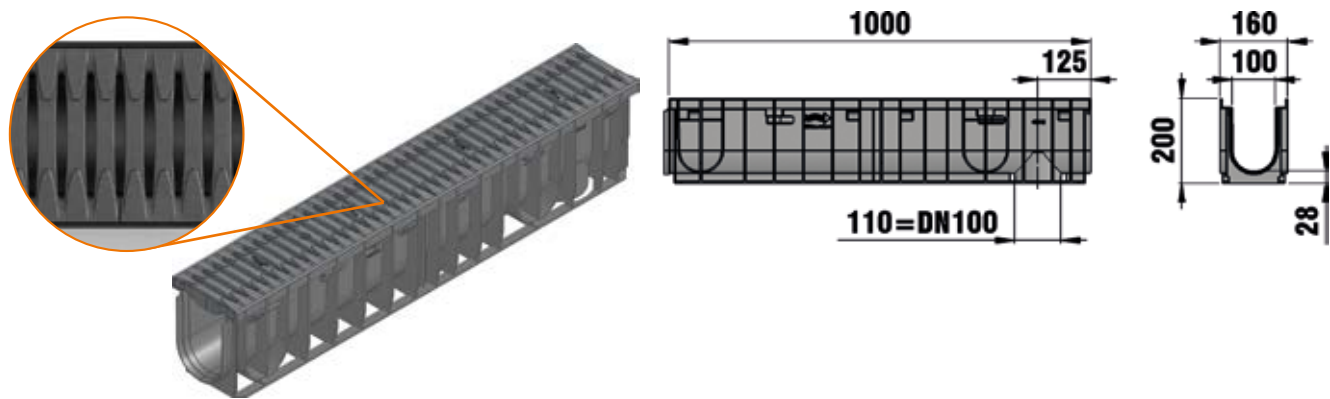
Trash box with mud bucket and GUGI-Grating made of PA-GF, MW 15/25, black, cl. B 125, locked



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Trash box with mud bucket and GUGI-Grating made of PA-GF, MW 15/25, black, cl. B 125, locked	500	160	504	5,8	7515

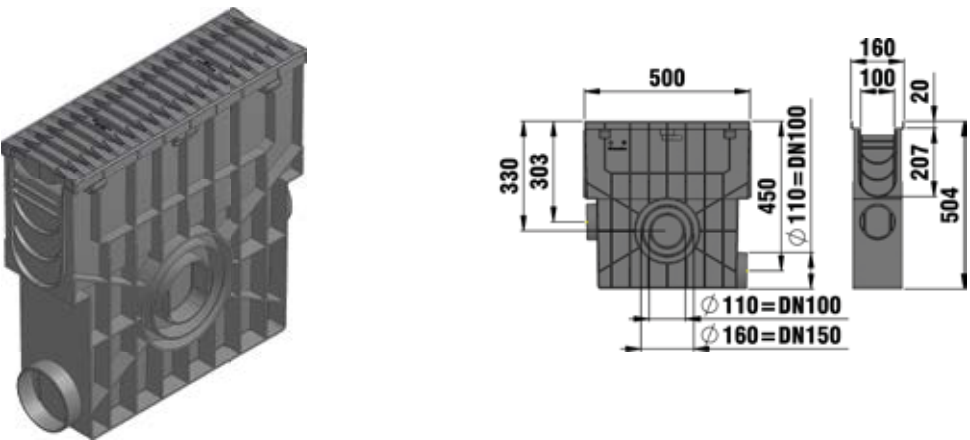
SPORTFIX®PRO Channels, class C 250

Type O10, with FIBRETEC slotted grating,
SW 9 mm, black, locked



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Type O10, with FIBRETEC slotted grating, SW 9 mm, black, locked	1000	160	200	4,9	7520

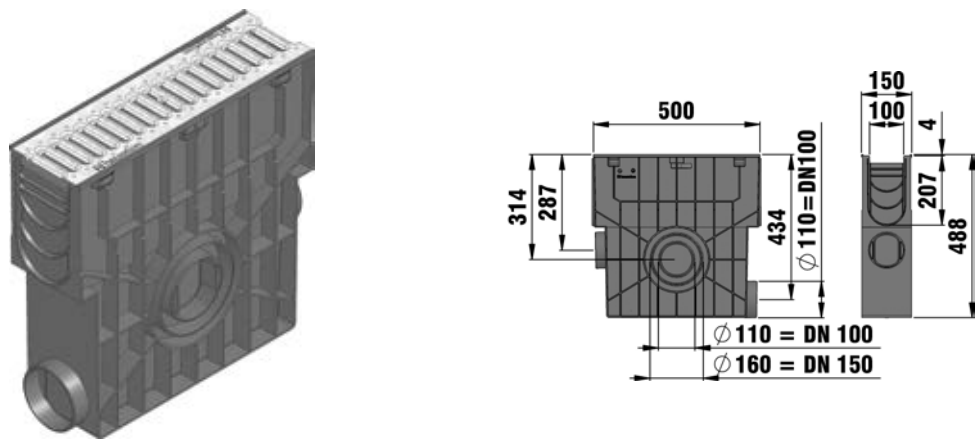
Trash box with mud bucket and FIBRETEC
slotted grating, SW 9 mm, black, cl. C 250



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Trash box with mud bucket and FIBRETEC slotted grating, SW 9 mm, black, cl. C 250	500	160	504	5,9	7525

SPORTFIX®STANDARD Trash box

Trash box with mud bucket and slotted grating, SW 75/9,
trafficable, locked



Type	Length mm	Width mm	Height mm	Weight kg	Product code
Trash box with mud bucket and slotted grating, SW 75/9, trafficable, locked	500	158	420	4,9	7535



Drainage systems for all sports surfaces

Artificial turf has become an indispensable part of today's sports world. The reasons for this are: it is maintenance-friendly, impervious to weather and always provides the best playing conditions. With all these properties, the artificial turf offers a versatile use.

A general distinction is made between artificial turf with:

- filled pole layer
- unfilled pole layer

An artificial turf with a filled pole layer consists of a mixture of sand with rubber granulate or sand with cork. The unfilled pole layer refers to the traditional artificial turf on the elastic layer. The DIN 18035 Part 4-7 regulates all requirements of floor coverings for sports facilities.



Mini-pitches



Hockey field

Proper surface drainage is very important for protection of the entire sports complex, the coverings as well as the athletes. For decades artificial turf and hockey have been inseparable. For this application, artificial turf with unfilled pole layer has prevailed.

The **SPORTFIX channel ROME I** (page 32) is the drainage system for hockey pitches. This drainage system ensures the flatness of the surface and directs surplus accumulating surface water quickly.

For applications with filled pole layer, the drainage systems **SPORTFIX Channel ROME II** (page 33) and **SPORTFIX Channel BASEL** (page 36) guarantee smooth surface drainage.



Football stadium



Football stadium

SPORTFIX® Channel ROME

For artificial turf surfaces that need to be secured.





At a glance

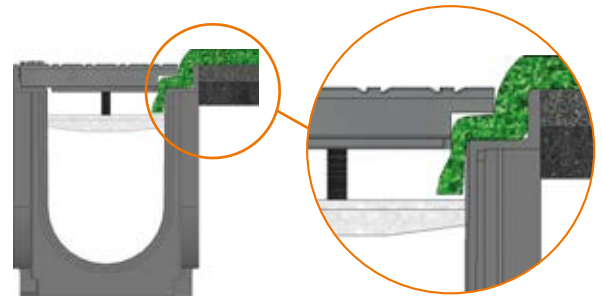
- ✓ ROME I: for hockey pitches, artificial turf with unfilled pole layer
- ✓ ROME II: for artificial turf with filled pole layer

SPORTFIX®Channel ROME

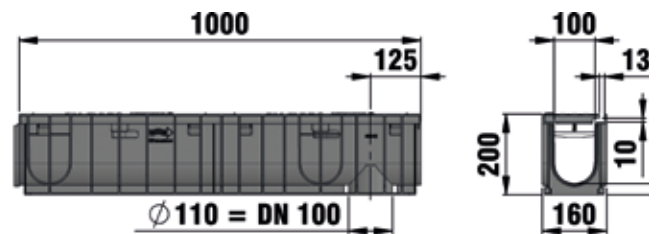
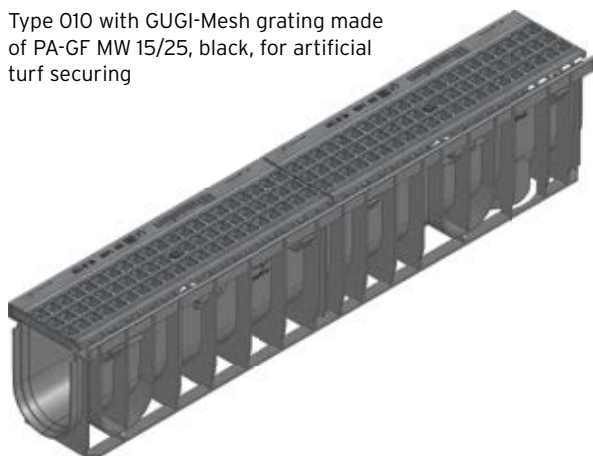
SPORTFIX®Channel ROME I

The SPORTFIX channel ROME I is primarily used for hockey pitches. The system can be adapted to any size of artificial turf which needs no tension.

The artificial turf is just layed into the channel and jammed with the GUGI-Mesh grating which is locked with a locking handle (two per metre). This ensures that the turf covering remains securely in place.



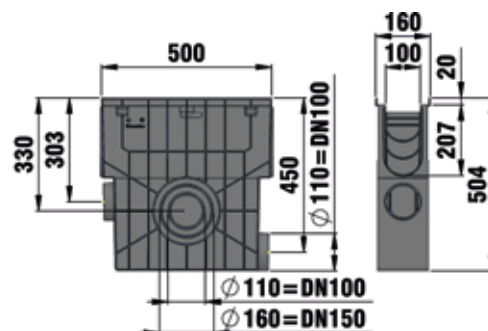
Type 010 with GUGI-Mesh grating made of PA-GF MW 15/25, black, for artificial turf securing



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Type 010 with GUGI-Mesh grating made of PA-GF MW 15/25, black, for artificial turf securing	1000	160	200	4,7	7862
Type 01005 with GUGI-Mesh grating made of PA-GF MW 15/25, black, for artificial turf securing	500	160	200	2,4	7869

SPORTFIX®Accessory ROME I

Trash box with mud bucket, with GUGI-Mesh grating made of PA-GF, MW 15/25, black, for artificial turf securing



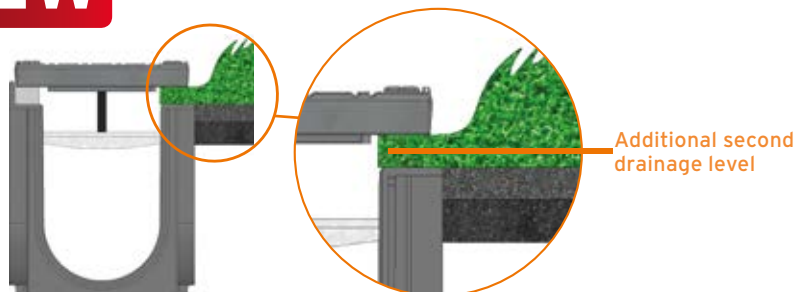
Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Trash box with mud bucket, with GUGI-Mesh grating made of PA-GF, MW 15/25, black, for artificial turf securing	500	160	504	5,4	7870

SPORTFIX®Channel ROME II

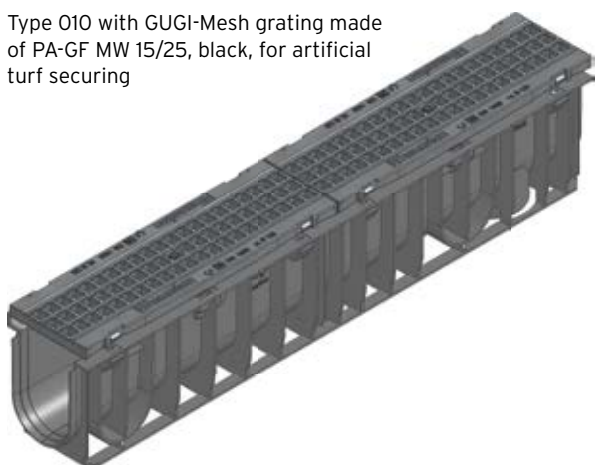
NEW

The SPORTFIX channel ROME II is for artificial turf with filled pole layer (e.g. football fields).

With the help of a special construction profile the gratings are positioned just above the top edge of the angle housing. The artificial turf is just layed under the grating, remains securely in place and creates a second drainage level.



Type 010 with GUGI-Mesh grating made of PA-GF MW 15/25, black, for artificial turf securing



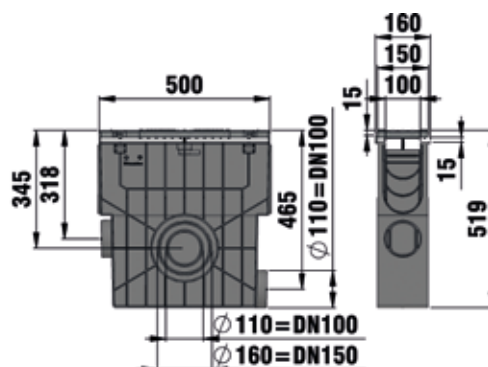
At a glance

- ✓ ROME I: for hockey pitches
- ✓ ROME II: for artificial turf with filled pole layer

Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Type 010 with GUGI-Mesh grating made of PA-GF MW 15/25, black, for artificial turf securing	1000	160	215	-	7863
Type 01005 with GUGI-Mesh grating made of PA-GF MW 15/25, black, for artificial turf securing	500	160	215	-	7868

SPORTFIX®Accessory ROME II

Trash box with mud bucket, with GUGI-Mesh grating made of PA-GF, MW 15/25, black, for artificial turf securing



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Trash box with mud bucket, with GUGI-Mesh grating made of PA-GF, MW 15/25, black, for artificial turf securing	500	160	519	-	7871

SPORTFIX® Channel BASEL

Drainage solution for filled artificial turfs - the filling material remains securely in the turf.





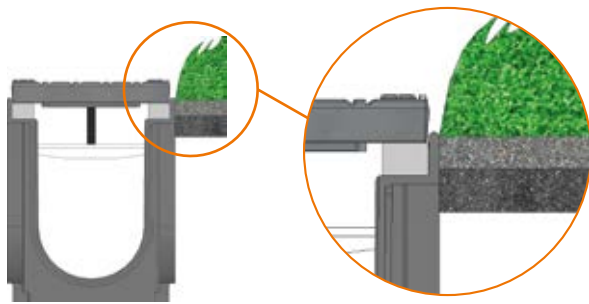
SPORTFIX®Channel BASEL

SPORTFIX®Channel Basel

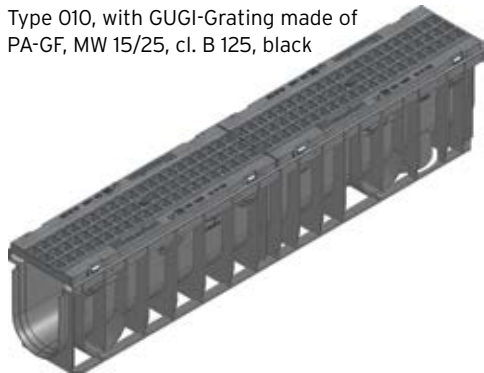
The SPORTFIX channels BASEL are for artificial turf with filled pole layer. The turf meets the grating exactly and finishes at the same level, forming a continuous surface.

The grating of the channel functions as a stop edge for the artificial turf which abuts to it. This ensures that the turf covering remains securely in place. With the help of a special construction the gratings are positioned just above the top edge of the angle housing and are securely fastened. This creates a gap between the grating and the top edge of the angle housing.

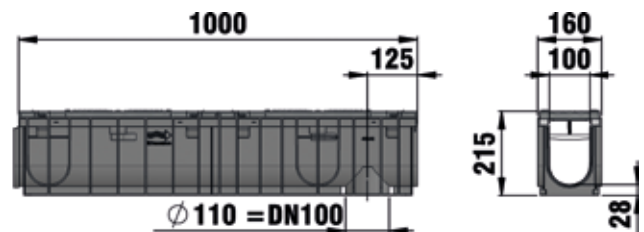
In the case of heavy rainfall events the storm water can now flow into the channel directly at the artificial turf surface. However, there is also a second drainage level to deal with that scenario. Any surface water that has infiltrated the turf can also run, without any threshold, into the channel but not the infill material of the artificial turf. The described gap above ensures this scenario.



Type 010, with GUGI-Grating made of PA-GF, MW 15/25, cl. B 125, black



profile made of PP



Nominal width 100

Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Type 010, with GUGI-Grating made of PA-GF, MW 15/25, cl. B 125, black, locked	1000	160	215	-	7900
Type 010, with FIBRETEC slotted grating, SW 9, cl. C 250, black, locked	1000	160	217	-	7910
Type 010, with ductile iron grating, SW 10 mm, cl. E 600, black, 8-fold bolted	1000	160	215	-	7920

Nominal width 200

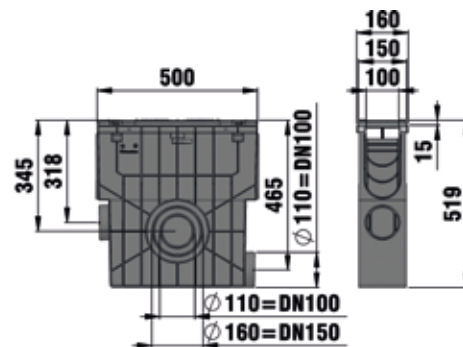
Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Type 010, with FIBRETEC slotted grating, SW 9, cl. B 125, black, locked	1000	262	217	-	7950
Type 010, with ductile iron grating, SW 18 mm, cl. D 400, black, 8-fold bolted	1000	262	215	-	7960

Nominal width 300

Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Type 010, with G-TEC grating, cl. E 600, 8-fold bolted	1000	362	375	-	7975



SPORTFIX® Accessory BASEL



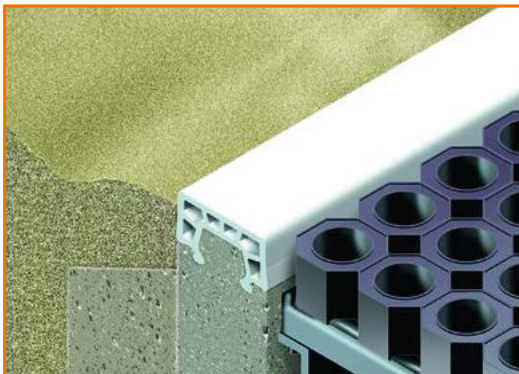
Nominal width 100

Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Trash box with GUGI-Grating made of PA-GF, MW 15/25, cl. B 125, black, locked	500	160	519	-	7905
Trash box with FIBRETEC slotted grating, SW 9, cl. C 250, black, locked	500	160	521	-	7915
Trash box with ductile iron grating, SW 10 mm, cl. E 600, black, 4-fold bolted	500	160	519	-	7925

Nominal width 200

Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Trash box with FIBRETEC slotted grating, SW 9, cl. B 125, black, locked	500	262	769	-	7955
Trash box with ductile iron grating, SW 18 mm, cl. D 400, black, 4-fold bolted	500	262	767	-	7965

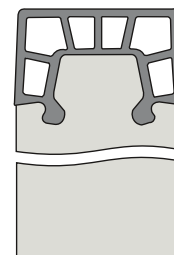
SPORTFIX® Soft kerbs



Used for edging sand pits, sand traps, shot-putting facilities and other sports areas. Rubber cushioned capping minimises the risk of injury to athletes.

SPORTFIX Soft kerbs for:

- ☐ jumping pits
- ☐ sand pits
- ☐ definition of outside edge of a running track
- ☐ permanent delineation of separate areas in sports grounds



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
white	1000	60	200	24,0	7200
white	1000	60	250	30,0	7201
white	1000	60	300	36,0	7202
white	1000	60	400	49,0	7203
white	500	60	400	24,5	7204
Angle pieces, white	250/250	60	300	16,4	7208
Angle pieces, white	250/250	60	400	21,5	7209
black	1000	60	200	24,0	7220
black	1000	60	250	30,0	7221
black	1000	60	300	36,0	7222
black	1000	60	400	49,0	7223
black	500	60	400	24,5	7224
Angle pieces, black	250/250	60	300	16,4	7228
Angle pieces, black	250/250	60	400	21,5	7229

SPORTFIX Soft kerbs for:

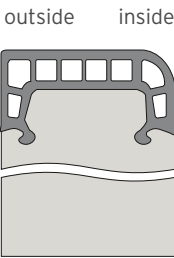
- shot put areas

For shot put areas we recommend wider SPORTFIX soft kerbs. The design and materials are the same as the soft kerbs for jumping pits and sand pits. The SPORTFIX soft kerb rubber padding for shot put areas is 100 mm wide and 50 mm high. The 250 mm high soft kerb is available in white or black.



At a glance

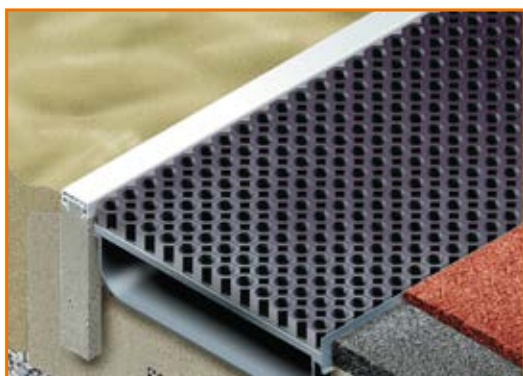
- ✓ available in black and white
- ✓ different heights and corner elements available
- ✓ rubber cushion made of EPDM and air cushions inside to minimise the risk to athletes



Type	Length mm	Width mm	Height mm	Weight kg	Product code
black	1000	100	250	53,0	7232
white	1000	100	250	53,0	7237



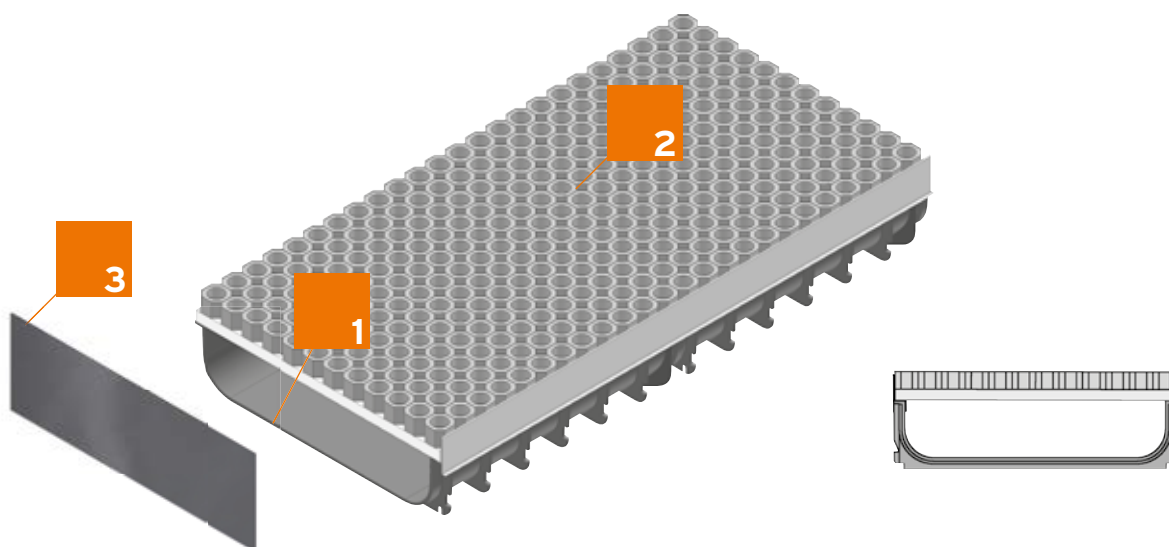
SPORTFIX® Sand traps



Prevents sand spreading on to the running track.

Trap channels allow different sand pit sizes to be achieved.

For IAAF guidelines see page 41.



1 Lower section made from polypropylene (2 x 500 mm) with prefabricated DN 100 connection facility

2 Mesh grating with firmly attached rubber mat and single-sided metal profile (1000 mm) for a neat joint with running track surfaces

3 End cap for sand trap (has to be installed on one side to the surface layers)

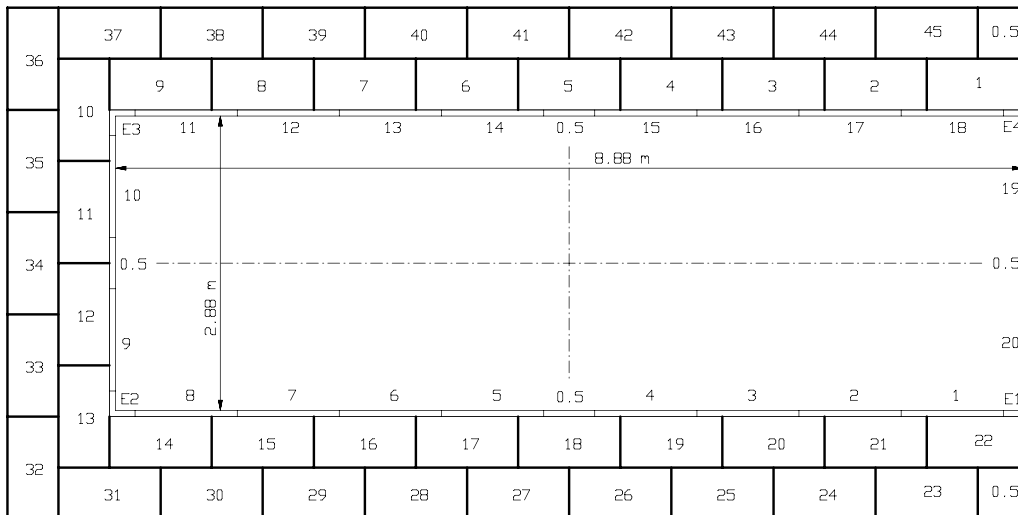
Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
Sand trap 2 x 500 mm	1000	500	163	16,8	7740
Sand trap	500	500	163	8,8	7745
End cap	-	500	175	0,5	7248

Jumping pit with sand trap 2.88 m x 8.88 m in accordance with IAAF specifications

Soft kerbs: 20 x 1 m + 4 x 0.5 m + 4 corner pieces 0.25 m x 0.25 m

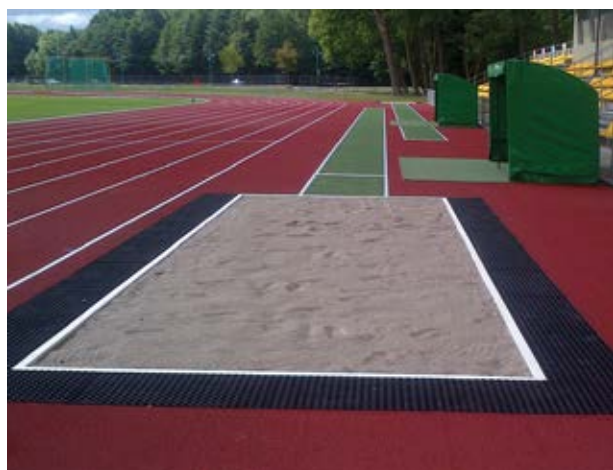
SPORTFIX sand trap: "Single" 22 x 1 m

SPORTFIX sand trap: "Double" 45 x 1 m + 2 x 0.5 m

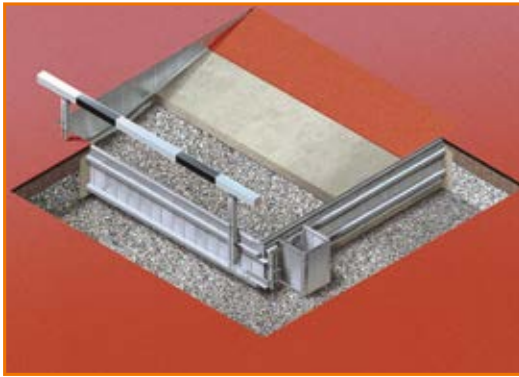


At a glance

- ✓ base section made of PP
- ✓ expanded metal grating and rigidly mounted rubber mat on top
- ✓ single and double width installation possible



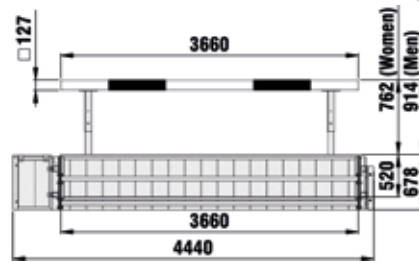
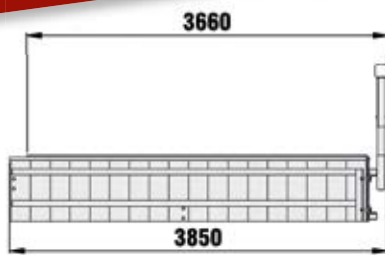
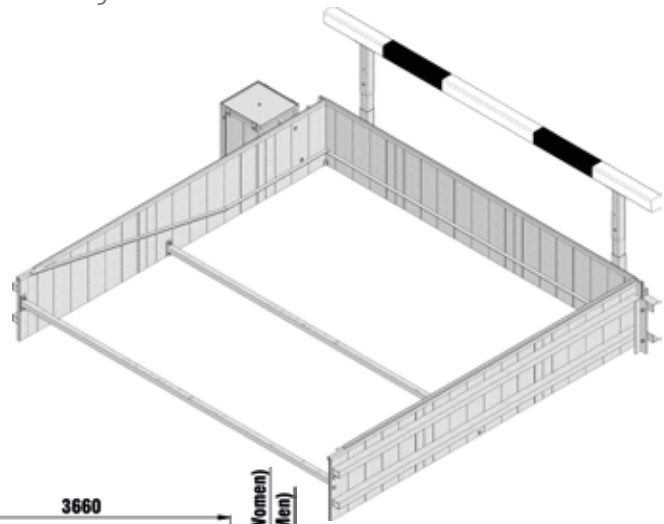
SPORTFIX® Water jump Aluminium



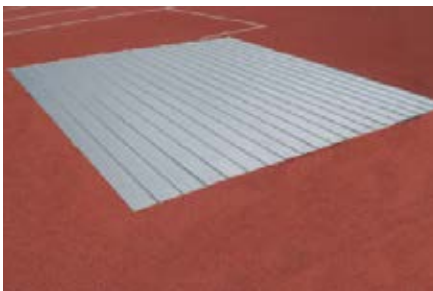
Water jump for steeplechases in accordance with IAAF requirements.
Modular construction for quick and easy assembling.

At a glance

- ✓ prefabricated wall panels made of aluminium double hollow profiles
- ✓ additional shaft for water fittings
- ✓ including hurdles



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
SPORTFIX Water jump aluminium	3850	4440	678	271,8	7150
Cover with underframe for water jump				319	7152



Cover for water jump. Subsequent filling with the running track surface is possible.



Underframe for cover



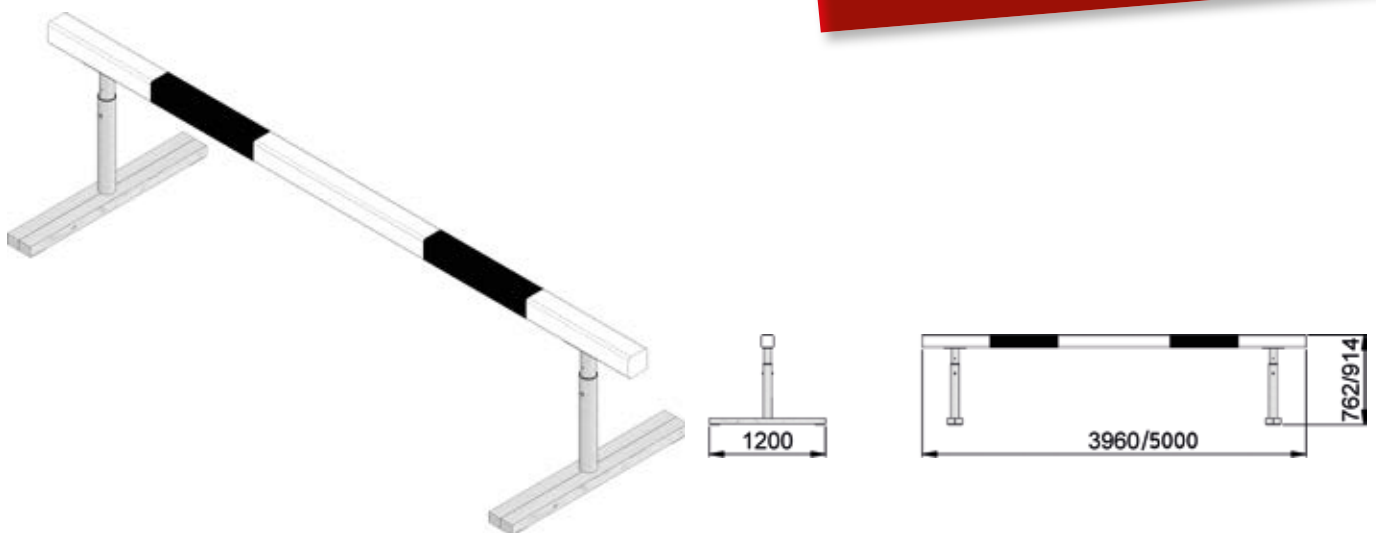
SPORTFIX Water jump with water

SPORTFIX®Hurdles

SPORTFIX®Hurdles

The SPORTFIX Hurdle is made of aluminium and has a wooden cross bar. The hurdles are easily and quickly adjustable to international competition heights for both women (0.762 m) and men (0.914 m). This article is delivered in a set of four pieces. The fifth hurdle needed for the decathlon is already part of the SPORTFIX water jump made of aluminium. The black and white upper crossbars are made from timber wood.

Product complies with IAAF guidelines



Type	Length mm	Width mm	Height mm	Weight kg	Item- no.
SPORTFIX Hurdles for steeplechase, set of 4 pieces (3x 3960 mm, 1x 5000 mm), high adjustable for women (762 mm) and men (914 mm)	1200	3960/5000	762 /914	90	7154



SPORTFIX® Distribution shaft

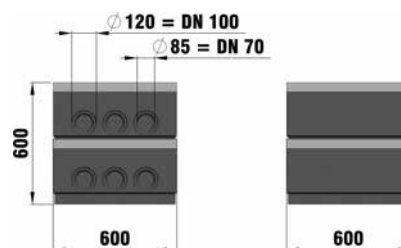


Distribution pits for electrical cables.

For major sports or concert venues with a lot of news transmission.

SPORTFIX Type E distribution shaft

- ☐ accommodates electrical and communications cables
- ☐ consists of two sections
- ☐ opportunity to connect DN 70/DN 100 conduits to any side
- ☐ grating is made from galvanised tread plate, can support the weight of a vehicle



Type	Length mm	Width mm	Height mm	Weight kg	Product code
E	600	600	600	192,0	7450
Stacking element	600	600	300	58,1	7400

SERVICE Channels

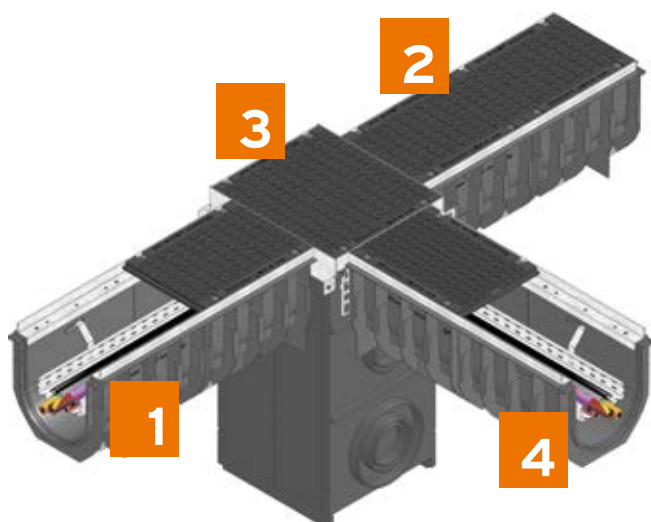


Cable management system.

For the safe management of power and telecommunication cables at stadiums and race tracks. Suitable for industrial applications.

RECYFIX®SERVICE Channels

- nominal size 100 and 300
- with solid ductile iron covers in class E 600
- robust, non-slip grating



- 1 RECYFIX SERVICE Channel made of Polypropylene with galvanised ductile iron angle housing.
- 2 Solid ductile iron cover, black, class E 600
- 3 Trash box for the preparation of corner and T-junctions.
- 4 Cable duct to lay cables inside.

RECYFIX®SERVICE Channels

Type	Length mm	Width mm	Height mm	Weight kg	Product code
Type 01, RECYFIX STANDARD 100	1000	150	134	1,9	48000
Type 010, RECYFIX STANDARD 100	1000	150	185	3,0	40242
Type 010, RECYFIX SUPER 300	1000	390	416	14,8	40900

RECYFIX®SERVICE Gratings

Type	Length mm	Width mm	Height mm	Weight kg	Product code
Checkered plate, galvanised for type 01, type 010 RECYFIX STANDARD 100, class A 15	1000	136	22	3,1	40271
Solide ductile iron grating, black, for type 010, RECYFIX SUPER 300, class E 600	500	377	40	21,5	4262

RECYFIX® GREEN STANDARD



Turf honeycomb.

Reinforcement of grassed areas used for pedestrian access and occasional use as temporary car parks.

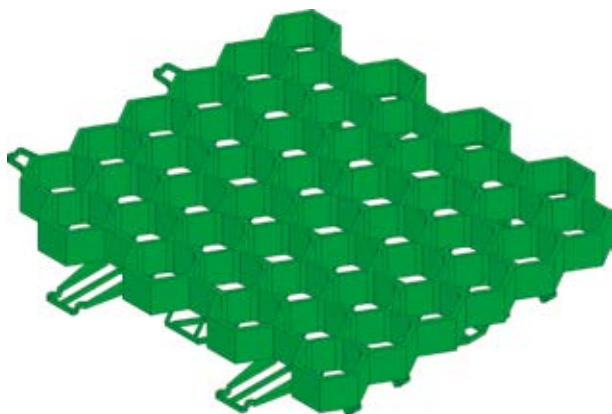
At a glance

- ✓ 100% recycled material with very high flexibility
- ✓ weather-resistant and durable
- ✓ for lawns and pathways in sports grounds



RECYFIX®GREEN STANDARD

- for parking areas with low dynamic loads, pathways
turf planted areas, protection against erosion
- material: 100% pure recycled HD-PE, UV-stabilised
- openings for root penetration: 50%



RECYFIX®GREEN STANDARD, Turf reinforcement

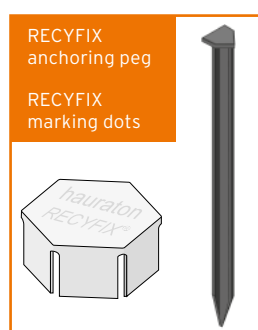
Type	Length mm	Width mm	Height mm	Weight kg	Product code
Size 1, made of HD-PE, green	387	334	38	0,7	40000
Size 1, made of HD-PE, green	387	555	38	1,2	40005

Demand of RECYFIX GREEN STANDARD per sqm.:

Size 1: 5,9 turf reinforcements, installation with fix expansion joint, approx. 47,8 sqm. per palette

Size 2: 3,8 turf reinforcements, installation with fix expansion joint, approx. 49,5 sqm. per palette

Sale only in complete units (palettes).



RECYFIX®GREEN STANDARD, Accessories

Type	Length mm	Width mm	Height mm	Weight kg	Product code
Marking dot, white	-	-	38	-	40015
Anchoring peg made of ABS-plastic	250	-	-	-	40020

With 0% built-in fall no fixing anchors in the middle area are required, the outside turf reinforcement (without edging plate) need 3 anchors / piece.

With 2% built-in fall 1 anchor per piece in the middle area is required, the outside turf reinforcement (without edging plate) need 3 anchors / piece.

With 5% built-in fall 2 anchors per piece in the middle area are required, the outside turf reinforcement (without edging plate) need 4 anchors / piece.

Afterwards the use of the area and the built-in fall are decisive for further measurements.

Installation

General installation instructions

Designers, engineers and contractors can request digital or hardcopy installation instructions at any time.

Hardcopy installation instructions are always provided with every delivery.

Specific advice is always available from Hauraton sales support.

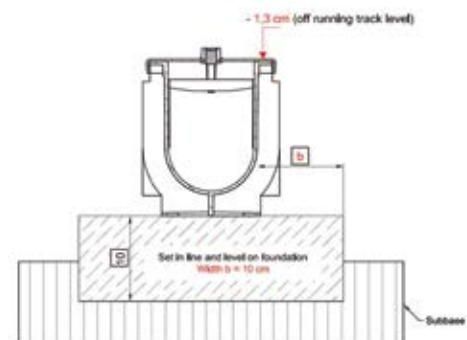
Installation procedure

To get an idea of the correct installation procedure of SPORTFIX Channels please see below.

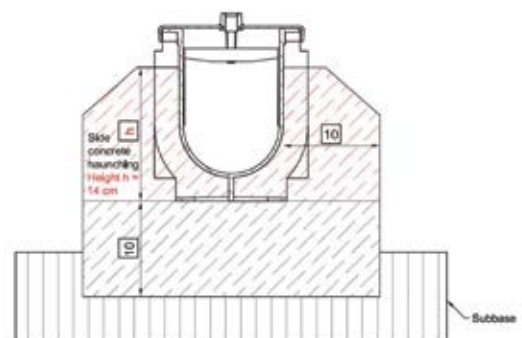
Step 1: Foundation on subbase



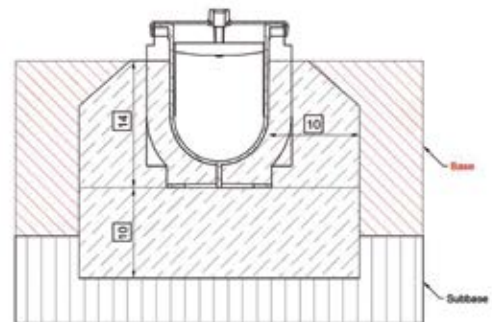
Step 2: Lining and levelling



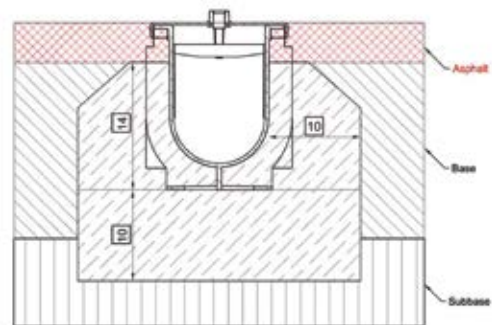
Step 3: Concrete haunching



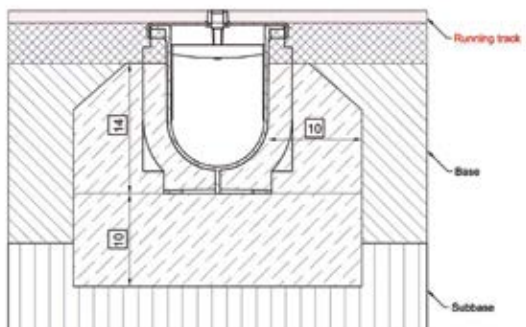
Step 4: Base for surfacing



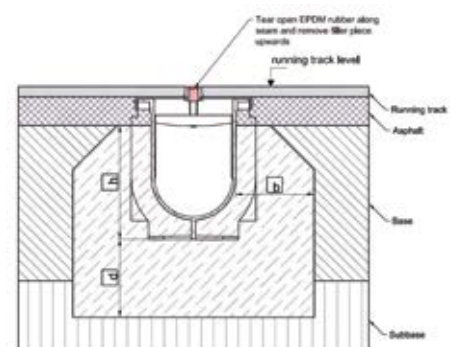
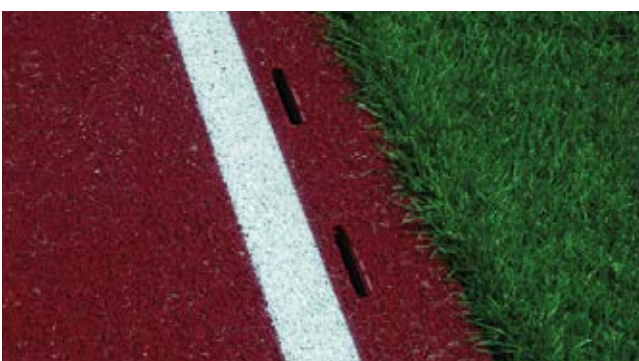
Step 5: Asphalt



Step 6: Running track surface



Step 7: Open drainage slots



Tips and hints

Installation

SPORTFIX plastic covers are installed with **3 mm spacing** (= thickness of a folding wooden rule).

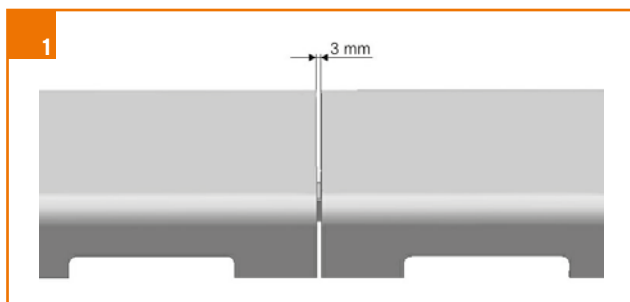
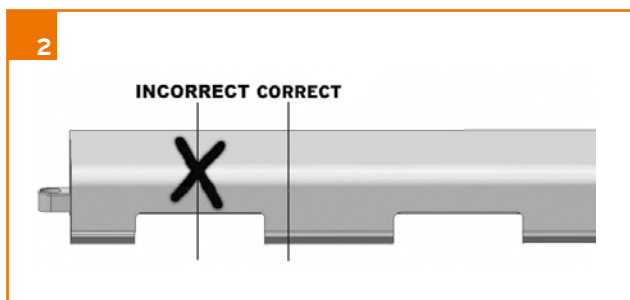


Figure 1: Spacing

Covers are installed in a clockwise direction. The gratings centre one another by means of the black connecting springs. SPORTFIX blind covers have four spring-loaded steel clamps on their underside; these are used to clip the grating into the slotted channel.

Cut to length

SPORTFIX plastic covers can be shortened easily using a wood saw. The cut **must not be made through the side inlet openings**; if necessary, two gratings should be shortened in such a way as to achieve the required length without any cuts in the inlet area.



Installing and connecting different channels

When installing SPORTFIX channels and SPORTFIX slotted channels there is a height difference at the joining point that needs to be evened out. Using the raised slot in the slotted channel, which joins up superbly with the running track surface, this channel must be set deeper by the thickness of the running track surface (approx. 15 mm).

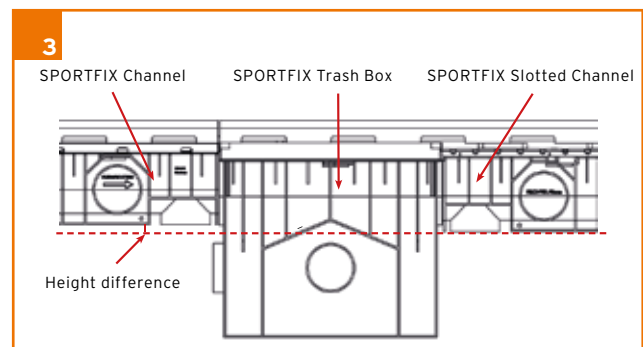


Figure 3: Evening out a height difference

Height adjustment is carried out with the help of an inlet box; the two runs of channel are connected to either side of the inlet box and an inspection cover is installed if necessary (see diagram).

Drainage solutions for bleachers



RECYFIX®PRO

- ✓ channel made of PP and grating made of high-quality PA-GF (Polyamide)
- ✓ corrosion-free gratings:
 - FIBRETEC slotted grating: anti-slippery surface, hydraulically optimized with elegant inlet slots
 - GUGI-Mesh grating
 - ductile iron longitudinal grating, KTL coated

Additional drainage solutions

Example:

Drainage of periphery of sports facilities (e.g. parking lots)



RECYFIX®HICAP®

- ✓ high capacity drainage channel
- ✓ suitable for heavy load areas
- ✓ no expensive crane or machine hours for installation required

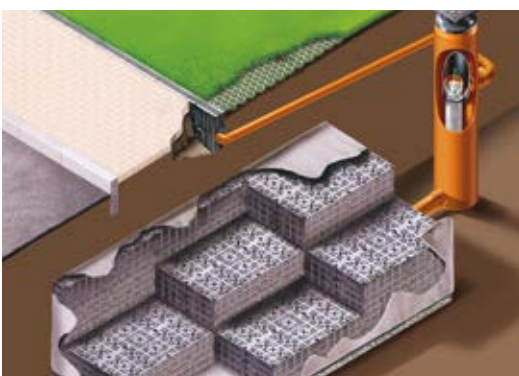


RECYFIX®NC

- ✓ extremely stable and lightweight - channels made of PP for civil engineering
- ✓ high stability with durable ductile iron grating (8-fold bolted)
- ✓ low weight ensures easy handling on site
- ✓ prefabricated ready to install

Example:

Seepage of surface water



DRAINFIX®BLOC

- ✓ extremely functional
 - load-bearing up to SLW 30
 - huge storage capacity
 - no reduction in useable space
- ✓ easy to install

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