



**CHANNEL DRAIN &
TURF ANCHORING
SYSTEM**



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The **SportsEdge Pro** channel drain and turf anchoring system is specifically designed to meet the demands of modern sports construction.

Pro Channel Drains

Today's sophisticated outdoor playing surfaces require proper drainage if they are expected to provide years of good service life. SportsEdge Pro components interface with all of the latest track and field surfacing materials to provide a functional and attractive method for draining, bordering and anchoring synthetic surfaces and natural grass. Typically installed inside the measuring line between the track and field, Pro channel drains can also be used at bleachers, around stand-alone playing fields and in asphalt pavement.

Safety of the athletes is a major concern for owners and it is the number one benefit of SportsEdge Pro. Interchangeable grating and edging is designed to accommodate any combination of adjacent surfaces with a zero elevation change at the transition. Typically, athletes are exposed only to soft, resilient materials. Hazardous drop inlets and their associated swales are replaced by a continuous line drain. This elimination of visual distractions and tripping hazards make SportsEdge the safest drainage system available.

Versatility makes the system easy to use for the owner and the contractor. One channel style is installed for all surface conditions, which accepts any of the edges and grates. So, even if plans change during construction, SportsEdge Pro is ready to adapt. And there is no need for curved channels at the radius. Since the edging is provided in continuous lengths, channel joints are not visible in the finished project.

Performance. The purpose of a good drainage system is to protect expensive surfacing materials and to make the facility playable as soon as possible after a rain event. SportsEdge Pro drainage capacities can be designed to local conditions. Simply include, within the 400 meter layout, the number of 900 catch basins that will meet or exceed the expected hydraulic load.



Pro Turf Anchors

SportsEdge Pro artificial turf anchors are used when a channel drainage system is not required, commonly across the "D" area or when an artificial turf field is not surrounded by a running track. The ideal application is carpeted fields used for soccer, lacrosse, baseball, football...anywhere synthetic sports turf is installed.

Pro turf anchors replace traditional concrete curbs and embedded wood nailers with an easy to use, precast tuck slot module. The edging provides a termination strip to separate the artificial turf from a wide range of adjacent materials. Use SportsEdge turf anchors when turf is installed next to track material, natural grass, asphalt, concrete....even the skinned infield of a baseball diamond.

The range of turf anchor sizes will accept the entire spectrum of traditional and infill type carpets. This innovative and universal anchoring system improves the appearance and safety of any artificial turf field by concealing all non-resilient materials and creating a zero elevation change between surfaces. And with Pro turf anchors, carpet can be removed or replaced without disturbing the surrounding medium.



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Channel Drains

SE428

Track
to Track

SE424
Artificial Turf
to Track

SE426A
Natural Grass
to Track

SE426A
Track to Track

SE426B
Track to
Artificial Turf

Turf Anchors

SE324.0
Artificial Turf to Asphalt
(or Concrete, Grass, Track, etc.)

SE324.25
Artificial Infill Turf to Track
(or Asphalt, Concrete, Grass, etc.)

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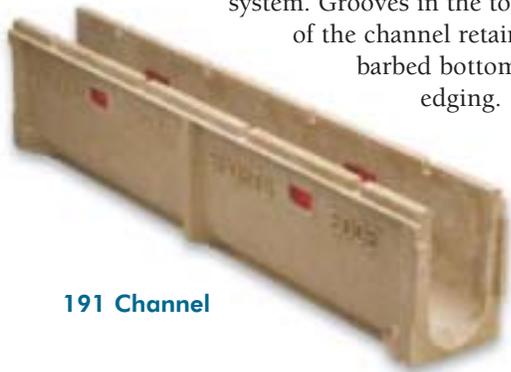
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Technical Data

Channel Drain & Turf Anchors

Both products are made from durable polymer concrete, a blend of high-grade polyester resin and quartz aggregate. Polymer concrete provides physical characteristics far superior to Portland cement concrete. The material is resistant to ultra violet degradation and chemical attack and is impervious to freeze-thaw cycles.

Channels feature a bottom radius, smooth interior surface, interlocking tongue and groove ends and the "Red Dot" grate locking system. Grooves in the top edge of the channel retain the barbed bottom of the edging.



191 Channel

Polymer Concrete Specifications

	191 Channel	324 Turf Anchor
Compressive strength (min.)	80 mpa (12,000 psi)	
Tensile strength (min.)	8 mpa (1,200 psi)	
Bending strength (min.)	14 mpa (2,000 psi)	
Coeff. of thermal expansion	0.25 x 10 ⁻⁶ in/in/ft	
Absorption	<0.2%	
Freeze-thaw	1600 cycles - no weight loss	
Length	1000 mm (39.19 in)	
Overall width	150 mm (6.0 in)	51 mm (2.0 in)
Inside width	100 mm (4.0 in)	16 mm (0.625 in)
Overall depth	217 mm (8.5 in)	80 mm (3.2 in) - 105 mm (4.1 in)
Weight	18.2 kg (40 lbs)	6.0 kg (13.2 lbs) - 7.0 kg (15.4 lbs)

Turf Anchors feature a clip together alignment system, a 0.625" tuck slot for artificial turf, and a retention groove for the 'D' edging.

Mechanical anchoring ribs keep both products secured in the encasement concrete.



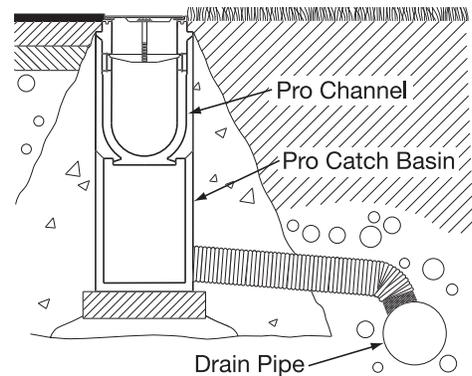
SE324 Turf Anchor



900 Catch Basin

Channel Drain Catch Basin

Half meter long 900 catch basins can be located anywhere to facilitate storm drain connections. Basins are the same width as the channels so they blend seamlessly into the layout. Removable galvanized steel trash buckets can be specified for debris interception. Catch basins can accommodate up to 15" CMP, HDPE or PVC pipe. All basins feature a pre-formed cutout for channel insertion.



Typical Drain Pipe Connection

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424 Grate



428 Grate

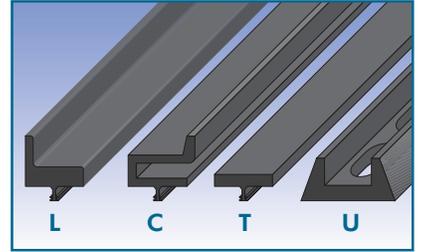


426 Grate

Channel Drain Grates & Edges

Drainage grates are made from galvanized steel and are available in one meter and convenient half meter lengths. All grates lock securely to the channel with a hands-free locking device consisting of a bolt and toggle bar.

Edges are manufactured from a polyvinyl chloride (PVC) compound enhanced with UV stabilizers. All edges are 13mm (0.5 in) tall to provide a guide edge for the resilient track surface. Three meter lengths give edging a clean, continuous appearance in the finished installation.



Note: The 3mm 'T' edge must be used as a shim for the top course of asphalt when a 10mm (0.375 in) track is being installed.

Grate Specifications

Part #	Material	Length mm (in.)	Weight kg (lbs)	Locking Device	Edge for track depth	
					13mm	10mm
424	Galv. steel	1000 (39.19)	3.6 (8.0)	811	C,T	C,T
425	Galv. steel	500 (19.60)	1.8 (4.0)	811	C,T	C,T
426	Galv. steel	1000 (39.19)	2.7 (6.0)	811	L	L,T
427	Galv. steel	500 (19.60)	1.4 (3.0)	811	L	L,T
428	Galv. steel	1000 (39.19)	1.8 (4.0)	810	U	U,T
429	Galv. steel	500 (19.60)	0.9 (2.0)	810	U	U,T



208.3

208.4

206

209

Channel Drain End Plates & Cleanouts

Cleanout assemblies can be installed as often as desired within the channel drain layout. The screw cap is removed to allow a snake or hose to be inserted into the channel whenever maintenance is required. Cleanouts allow convenient access when the SE428, Track to Track Grate is used.

The closed end plate terminates open channel runs. 3", 4" or 6" outlet end plates are used for direct channel discharge.



223 Cleanout

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System Details — Channel Drains

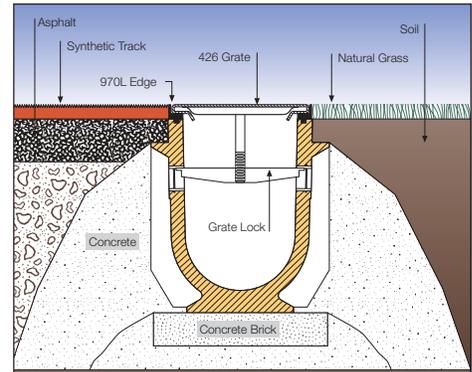
SE426A

Components Required

191 Pro Channel
426 Galvanized Steel Slotted Grate
970L Edge (both sides)
809 Lock Toggle
811 Hex Head Bolt

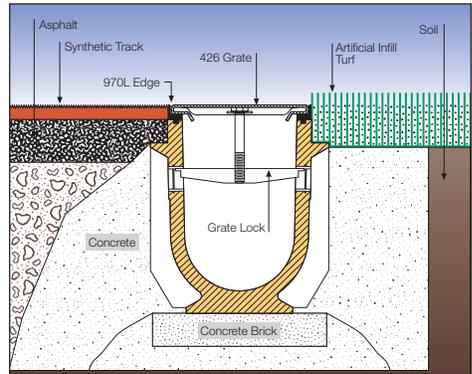
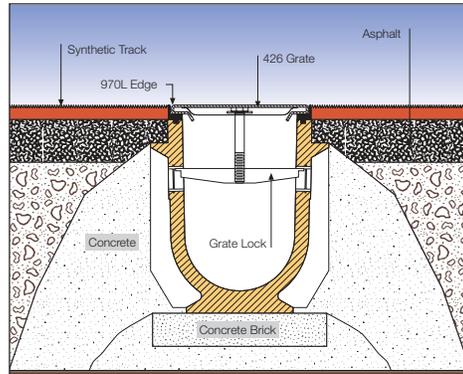
SE426A Track to Natural Grass

This is the most common selection for a track surrounding a natural grass field. The 426 grate is installed with two 'L' edges. No channel edges or encasement concrete are exposed to the athletes.



SE426A Track to Track

In this application, synthetic track material is installed on both sides of the drain while the transversely slotted, galvanized steel 426 grate remains visible. The 13mm 'L' edge serves as a screed edge for the track material, which guarantees a consistent track thickness.



SE426A Track to Artificial Infill Turf

A concrete ledge is formed low on the field side of the channel. Here, the side of the channel serves as a frame which captures the infill material.

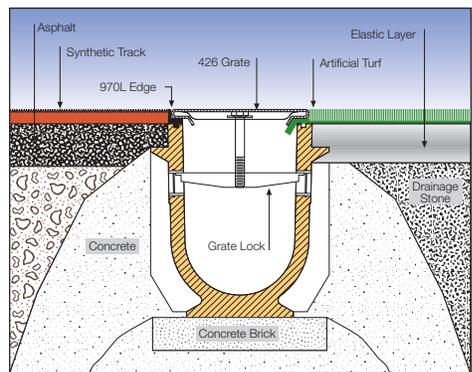
SE426B

Components Required

191 Pro Channel
426 Galvanized Steel Slotted Grate
970L Edge (one side)
809 Lock Toggle
811 Hex Head Bolt

SE426B Track to 1/2" Artificial Turf

This artificial turf anchoring system, which does double duty as a drain, uses the 426 transverse slotted grate. The thickness of the crushed carpet is equal to the height of the 'L' edge on the opposite side so there is no elevation change across the drain.



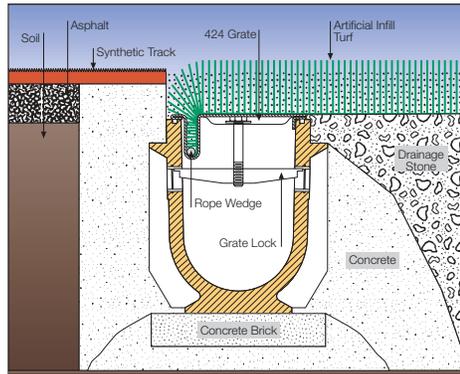
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SE424

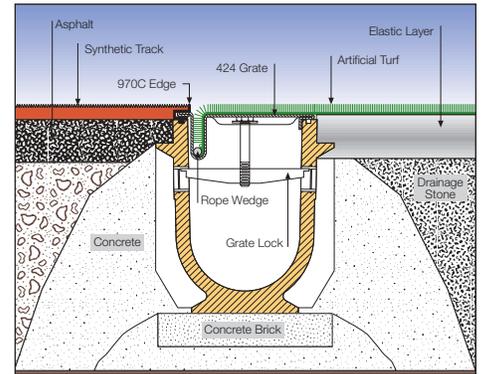
Components Required

191 Pro Channel
426 Galvanized Steel Slotted Grate
970C Edge
809 Lock Toggle
811 Hex Head Bolt



SE424 Track to Artificial Infill Turf

This system anchors the turf carpet and doubles as a drain. A concrete curb is formed high on the track side of the channel. Here, the channel is installed below finished grade and the curb serves as a frame, which captures the infill material.



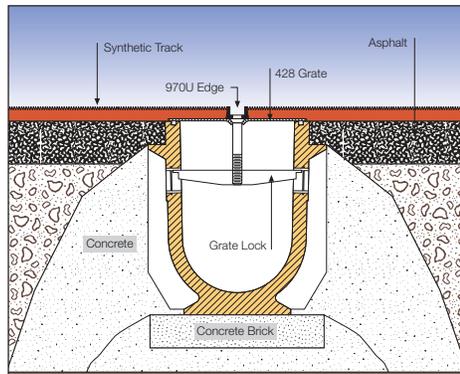
SE424 Track to 1/2" Artificial Turf

This system anchors the turf carpet and also provides drainage for the track. Turf is held in place by a continuous rope wedge driven to the bottom of the tuck slot. The 424 grate is not seen in the final installation.

SE428

Components Required

191 Pro Channel
428 Galvanized Steel Perforated Grate
970U Edge
809 Lock Toggle
810 Flat Head Bolt



SE428 Track to Track

When the drain is surrounded by synthetic track material, SE428 generates an almost invisible 12 mm wide slot. Events are run across the drain with no visual or physical obstructions. The 970U edge provides a 13mm high guide for the synthetic track material so a consistent thickness is achieved. Use #223 Cleanouts for easy access to this system (See page 5).



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System Details — Turf Anchors



SE324

Components Required

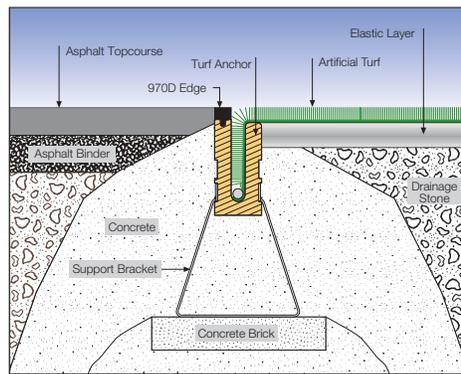
324 Turf Anchor (Select height)

970D Edge

230 Installation Bracket

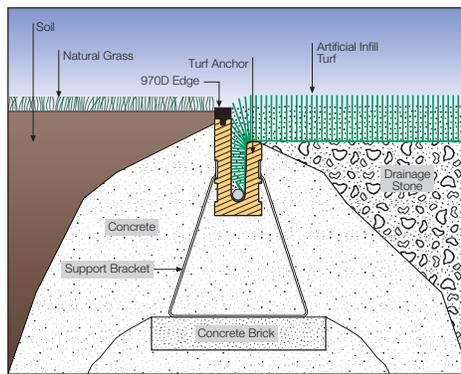
SE324.0 1/2" Artificial Turf to Asphalt (Concrete, Track, Grass, etc.)

Use the SE324.0 when a standard 1/2" carpet is adjacent to any surface material. The 970D edge serves as a termination strip, cleanly and safely separating the two surfaces. It's 13mm height provides a convenient screed edge for synthetic running tracks.



SE324.25 Artificial Infill Turf to Natural Grass (Asphalt, Concrete, Track, etc.)

The 25mm bi-level feature of the SE324.25, together with the 13mm height of the 970D edge creates a 38mm (1.5") shelf to contain turf infill material within the field. The top of the 970D edge is level with the top of the infill for a safe transition between surfaces.

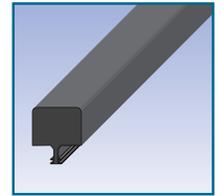


SE324.13 (Not shown) Artificial Infill Turf to Natural Grass (Asphalt, Concrete Track, etc.)

This turf anchor provides a 1" shelf, an intermediate step between the other two versions. The 324.13 can be used when less than 1.5" of infill material is specified.

970D Edge

Made of polyvinyl chloride, the 970D is 13mm (0.5 in) tall and 18mm (0.7 in) wide. A barb on the bottom surface locates the D edge into the groove in the top surface of the anchor. The edge is glued to the turf anchor prior to concrete placement.



It creates a resilient and safe termination strip between the adjacent surface materials.

230 Installation Bracket

The galvanized, spring steel installation bracket joins two adjacent anchors, holding them in longitudinal alignment. The wide base of the bracket provides stability during concrete placement. Depending on the elevation of your subgrade and the anchor style used, insert the bracket into the appropriate set of grooves so that top of the system is at finished grade. The bracket is used effectively when subgrade is cut anywhere between 10-14" below finished elevation.



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