

A close-up photograph of several large truck tires resting on a dark, textured drainage grate. The tires have a prominent tread pattern and blue-painted wheel hubs. The image is partially obscured by a diagonal white and blue graphic overlay.

polycon
surface water drainage

SF 200

Service . Range . Knowledge

Welcome To Polycon

Polycon is identified as one of the leading manufacturers, distributors, and suppliers of channel drainage in the UK. We focus towards creating a diverse range of water solutions, in a variety of different materials, including composite, polymer concrete, SMC, and steel.

Polycon's unique look at the market and expert knowledge of the industry ensures that we can supply a wide range of high-quality products suitable for any application. This includes building drainage, landscaping, sports facilities, distribution centres, highways, and airports.

Our design team provides innovative and efficient hydraulic solutions to ensure we can offer the best product/ solution for your drainage needs. We have a vast and experienced overview of our working industry and have been manufacturing, distributing, and selling channel drainage for over 8 years. We thrive on acting upon your feedback to improve and develop our products to fit flawlessly with the constantly changing market and demand from our customers.

At Polycon we focus our attention on professionals who sit within the construction industry, targeting our products to specifiers, architects, engineers, and contractors. Therefore, we understand the importance of expanding our product portfolio to create the most efficient surface water drainage systems.

We are a dynamic and evolving company with a focus on quality, innovation, and service. As a result, you can rely on us to handle your project needs in every way to the best of our ability.

Contents

<i>SF 200</i>	3
<i>SF 200 Overview</i>	5
<i>SF 200 Channel Types</i>	7
<i>Accessories</i>	9
<i>Grating Properties</i>	10
<i>Sloped, Stepped, Level</i>	11
<i>Installation Guide</i>	13

Service • Range • Knowledge

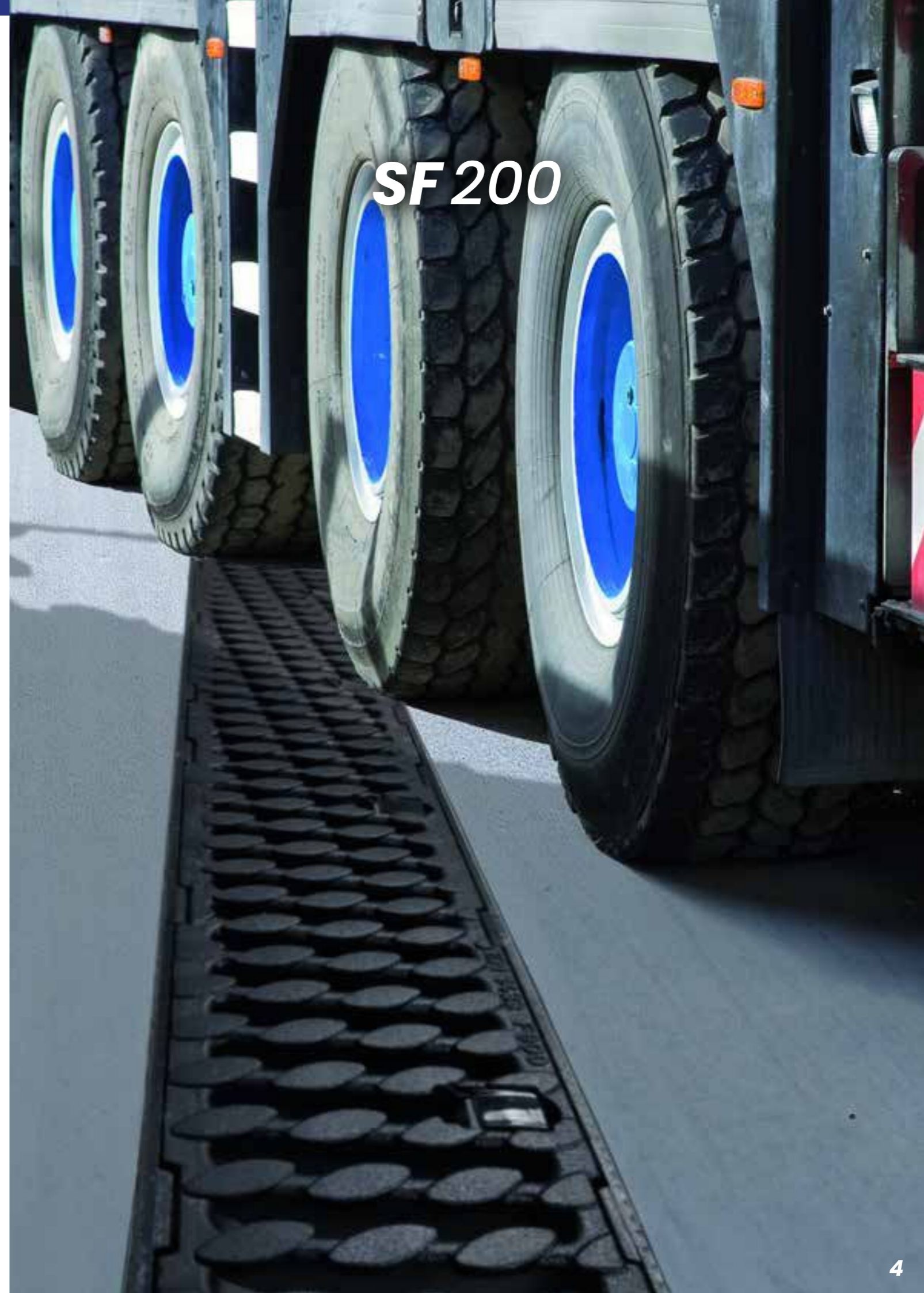
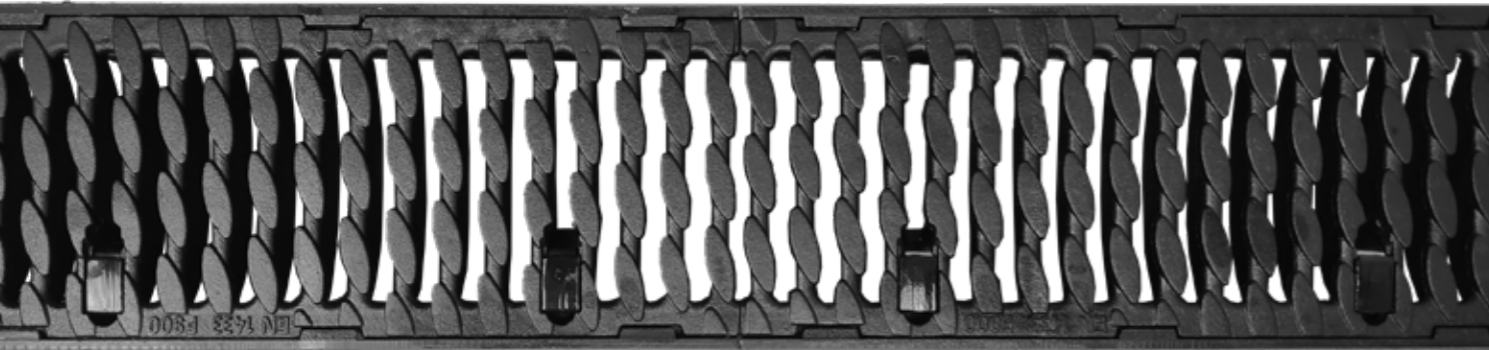
SF 200

Polycon's SF 200 drainage channels are a top-notch solution for efficient water management in various settings. These channels are renowned for their quality and advanced features, making them an excellent choice for drainage needs. Here, we'll highlight the main advantages of the SF 200 drainage channels supplied by Polycon.

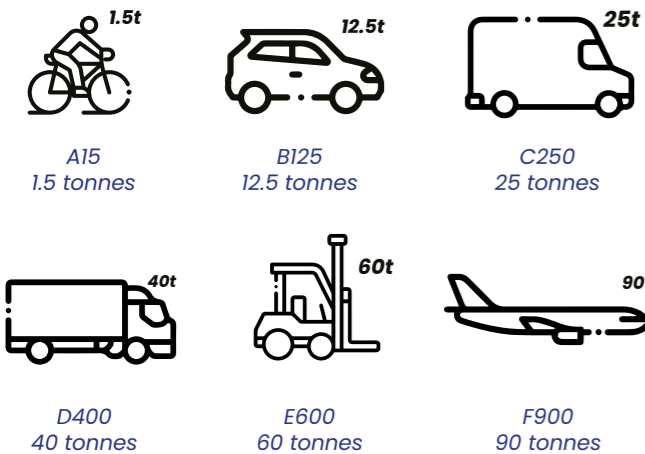
One of the standout features of Polycon's SF 200 channels is their innovative Unilink Joint System. This system ensures a seamless and secure connection between channel sections, eliminating weak points and preventing leaks. It simplifies installation and enhances the overall durability of the drainage system.

The SF 200 channels come equipped with a Rapid Lock Fastening system, simplifying the installation process. This feature saves time and reduces labour costs, making it a cost-effective choice for various projects.

SF 200 drainage channels are designed to withstand heavy loads and harsh conditions. Their heavy-duty construction makes them suitable for areas with high traffic, such as industrial facilities, parking lots, and commercial sites. These channels can effectively handle the demands of even the most challenging environments.



Load Class

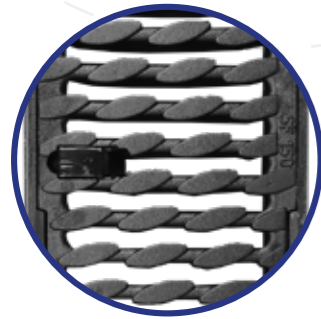


Applications

- Civil yards
- Warehouses
- Farms
- Docks
- Loading yards
- Commercial airport
- Flight operation areas

SF 200 - Overview

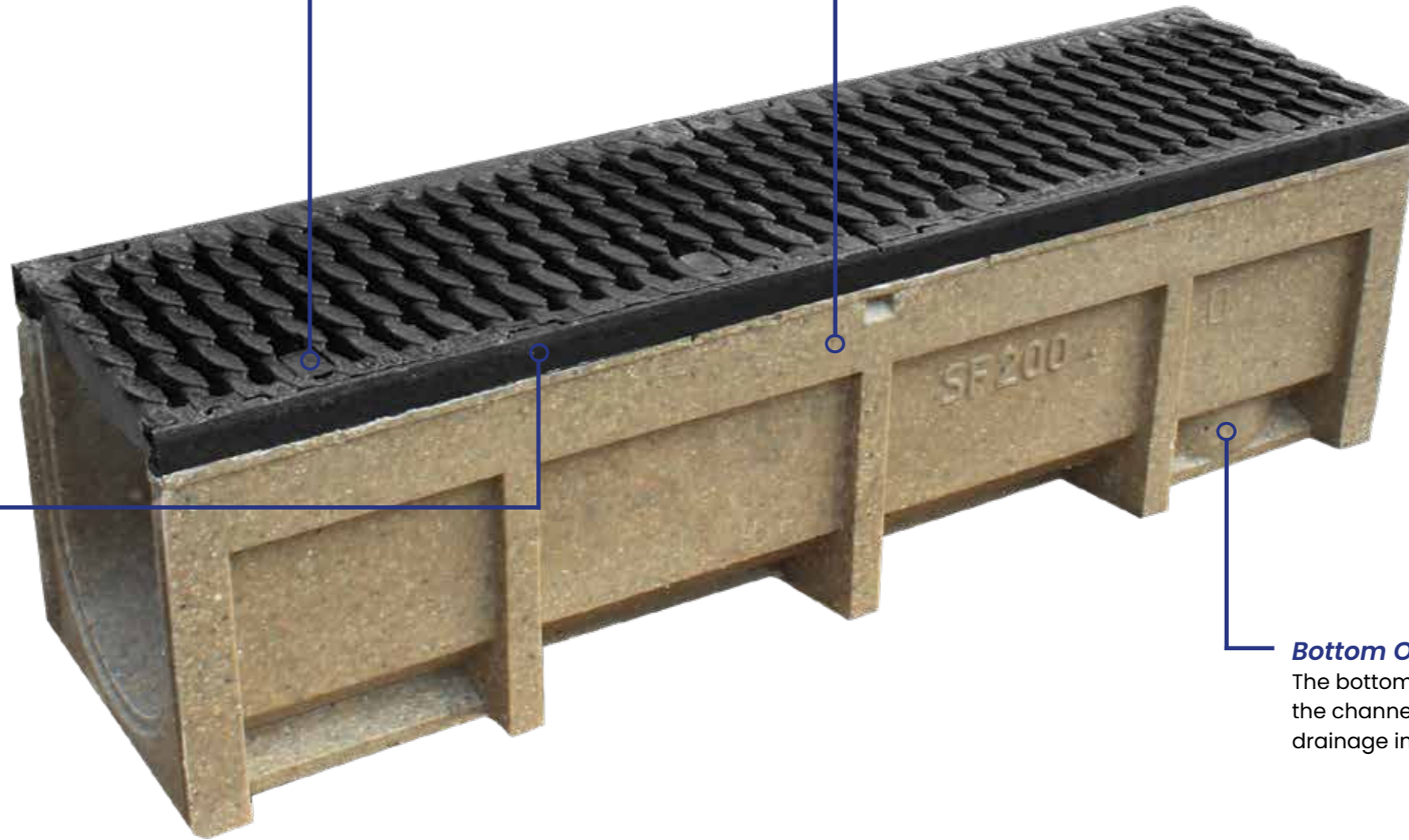
Colour Options



Grating
4 - point locking. 90 tonne loading.

Material

The SF 200 channels are constructed from polymer concrete, a material known for its exceptional strength and durability. This choice of material ensures longevity and resistance to corrosion, making them ideal for long-term use in drainage applications.



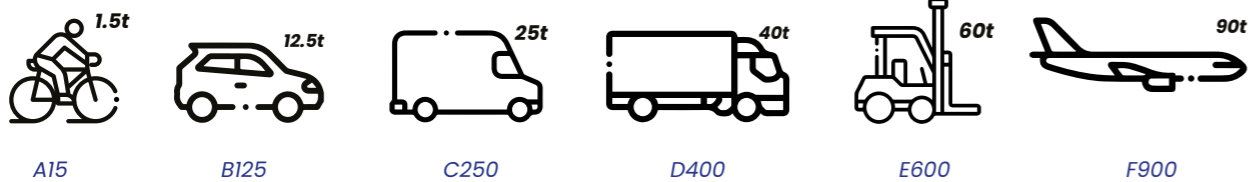
Ductile Iron Edge Rail

To enhance the channels' durability and load-bearing capacity, they feature a ductile iron edge. Ductile iron is recognized for its exceptional strength and impact resistance, which extends the lifespan of the drainage channels and ensures reliability in high-stress areas.

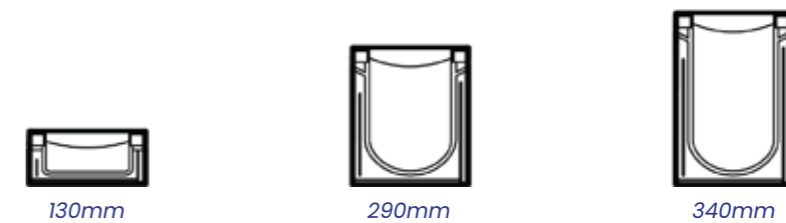
Bottom Outlet

The bottom outlet in the base of the channel allows for downward drainage into a 160mm sewer connection.

Load Classes

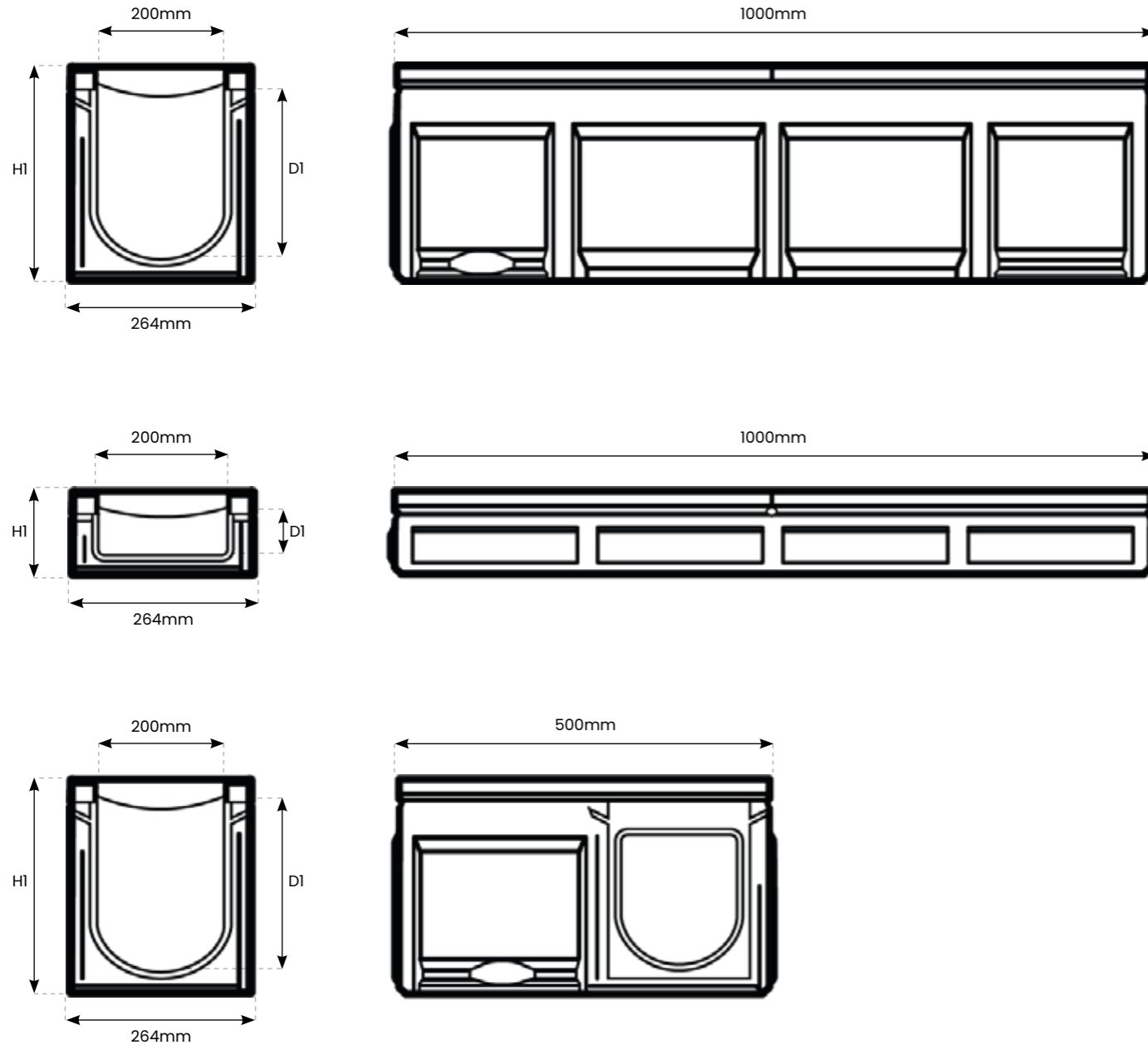


Depth Options



SF 200

Polycon's SF 200 drainage channels offer a comprehensive solution for effective water management. With their Unilink Joint System, heavy-duty design, polymer concrete construction, ductile iron edge, and rapid lock fastening, they provide a durable, versatile, and efficient solution for draining water and managing surface runoff in demanding environments. These channels are ideal for areas where strength, longevity, and ease of installation are paramount.



Channel Properties

Polymer concrete:	Polyester resin-based with mineral aggregates, additives.
Compressive strength:	> 90 N/mm²
Bending tensile strength:	> 22 N/mm²
Modulus of elasticity:	ca. 25 kN/mm²
Density:	2.1 - 2.3 g/cm³
Water penetration depth:	0 mm
Heat resistance:	100°C
Frost resistance:	-50°C
Water absorption:	0.05 %

Channel Types

Reference	Description	Slope	Length	Overall Width	Internal Width	Overall Depth(HI)	Internal Depth(DI)	Weight
SF.200.0	SF - 200 Channel No. 0*	0%	1000mm	264mm	200mm	290mm	270mm	48.2kg
SF.200.0R	SF - 200 Channel No. 0R***	0%	1000mm	264mm	200mm	290mm	270mm	48.2kg
SF.200.005	SF - 200 Channel No. 005**/*	0%	500mm	264mm	200mm	290mm	270mm	25.6kg
SF.200.1	SF - 200 Channel No. 1*	0.5%	1000mm	264mm	200mm	295mm	275mm	48.2kg
SF.200.2	SF - 200 Channel No. 2*	0.5%	1000mm	264mm	200mm	300mm	280mm	48.8kg
SF.200.3	SF - 200 Channel No. 3*	0.5%	1000mm	264mm	200mm	305mm	285mm	49.4kg
SF.200.4	SF - 200 Channel No. 4*	0.5%	1000mm	264mm	200mm	310mm	290mm	50kg
SF.200.5	SF - 200 Channel No. 5*	0.5%	1000mm	264mm	200mm	315mm	295mm	50.6kg
SF.200.6	SF - 200 Channel No. 6*	0.5%	1000mm	264mm	200mm	320mm	300mm	51.2kg
SF.200.7	SF - 200 Channel No. 7*	0.5%	1000mm	264mm	200mm	325mm	305mm	51.8kg
SF.200.8	SF - 200 Channel No. 8*	0.5%	1000mm	264mm	200mm	330mm	310mm	52.4kg
SF.200.9	SF - 200 Channel No. 9*	0.5%	1000mm	264mm	200mm	335mm	315mm	53kg
SF.200.10	SF - 200 Channel No. 10*	0.5%	1000mm	264mm	200mm	340mm	320mm	53.6kg
SF.200.010	SF - 200 Channel No. 010*	0%	1000mm	264mm	200mm	340mm	320mm	54kg
SF.200.010R	SF - 200 Channel No. 010R***	0%	1000mm	264mm	200mm	340mm	320mm	54kg
SF.200.0105	SF - 200 Channel No. 0105**/*	0%	500mm	264mm	200mm	340mm	320mm	29.6kg
SF.200.130P	SF - 200 Channel No. 200-P****	0%	1000mm	264mm	200mm	130mm	110mm	30.4kg
SF.200.130PR	SF - 200 Channel No. 200-PR*****	0%	1000mm	264mm	200mm	130mm	110mm	30.4kg

* Channel with mouldings for vertical outlet DA/OD 160

** Channel with sidewise perforations for the connection of t-junctions, elbow joints and cross-over joints

*** Channel with DA/OD 160 poured pipe socket

**** Channel with mouldings for vertical outlet DA/OD 110

***** Channel with DA/OD 110 poured pipe socket

Accessories

Sump Unit

Sump Units act as a reservoir, temporarily storing excess water before discharging it in a controlled manner to prevent adverse effects of water accumulation. The Sump Unit is excellent for collecting debris and waste that can get into the system. It comes with a silt bucket inside for easy cleaning.



Sump Unit

End Cap

End Caps can be used at the end of your channel run to stop the flow of water.



End Cap

End Cap Outlet

The End Cap Outlet can be used at the end of the run to allow water to be taken to your exterior drainage pipes and away from the channel.



End Cap Outlet

Pipe Socket

The Pipe Socket facilitates the seamless integration of drainage channels with the underground pipe network, ensuring effective water management and preventing waterlogging or surface flooding. It essentially acts as the link between the surface drainage system and the underground drainage infrastructure.



Pipe Socket

Accessories- Specifications

Reference	Description	Length	Height (H)	Overall Width	Weight (KG)	Outlet
SF.200.SU	SF 200 Sump Unit	500mm	700mm	264mm	61.1kg	160mm
SF.200.EC	SF 200 End Cap No. 0 - 20	20mm	130-340mm	264mm	2.8kg	-
SF.200.ECO	SF 200 End Cap Outlet No. 0 - 20	30mm	340mm	264mm	3.9kg	160mm
SF.200.PS.160	SF 200 Pipe Socket 160mm	160mm	-	160mm	0.4kg	-
SF.200.PS.200	SF 200 Pipe Socket 200mm	200mm	-	200mm	0.8kg	-

Grating



Ductile Iron Oval Grating (F900)

Grating Properties

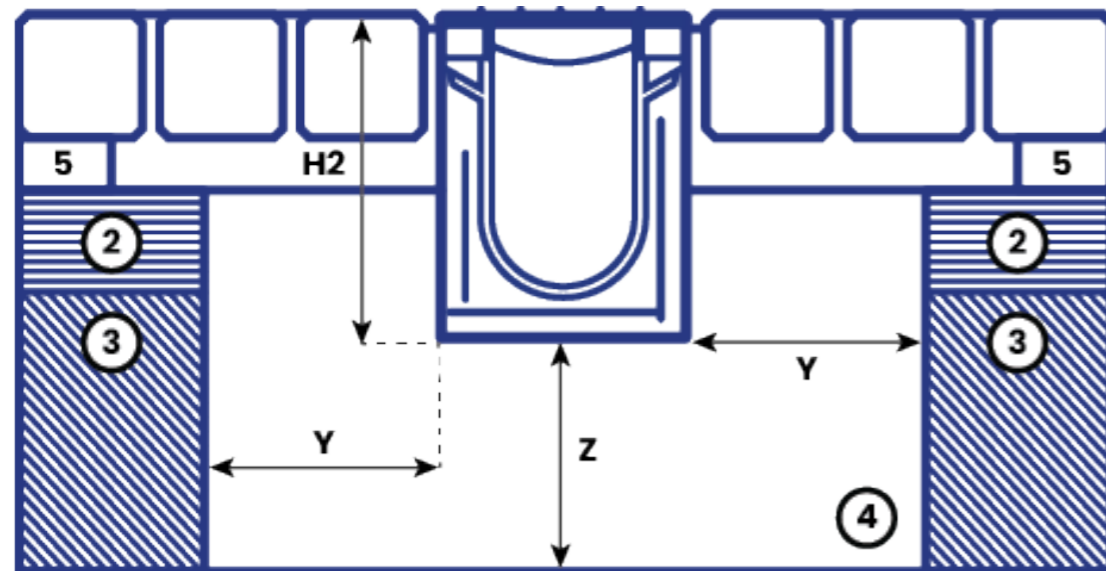
Type:	OvalGrip slotted cast iron grating
Material:	EN-GJS cast iron
Length:	500mm
Inlet cross-section:	490 cm ² /m, 680cm ² /m, 916cm ² /m, 1196 cm ² /m
Fastening:	GJS Cast edge rail

Installation Guide

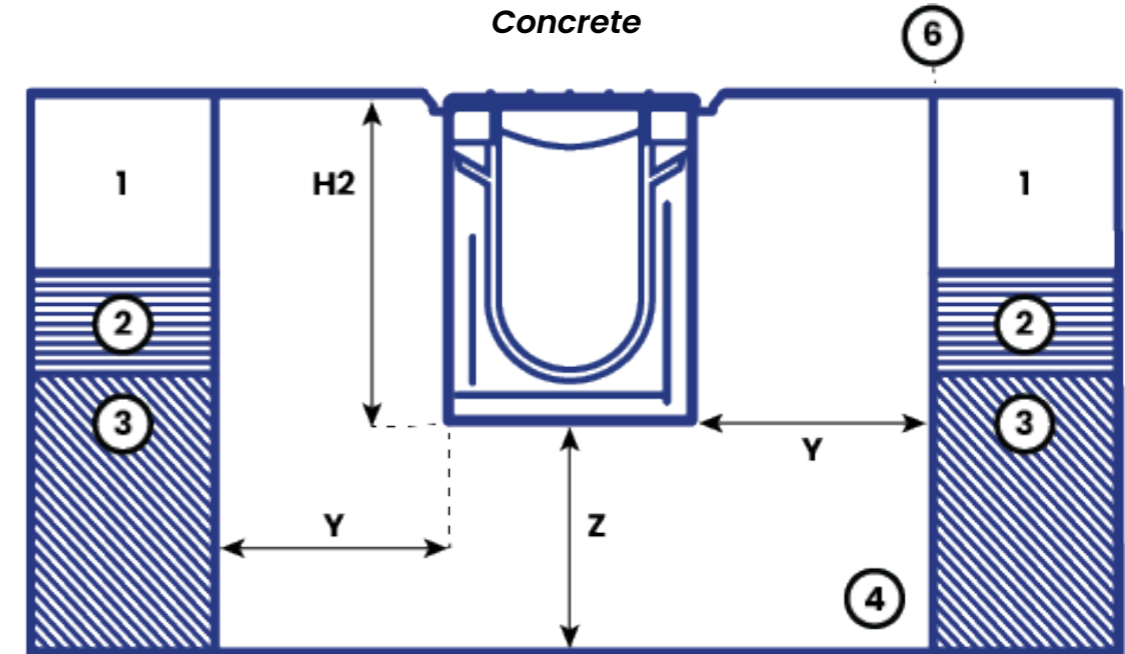
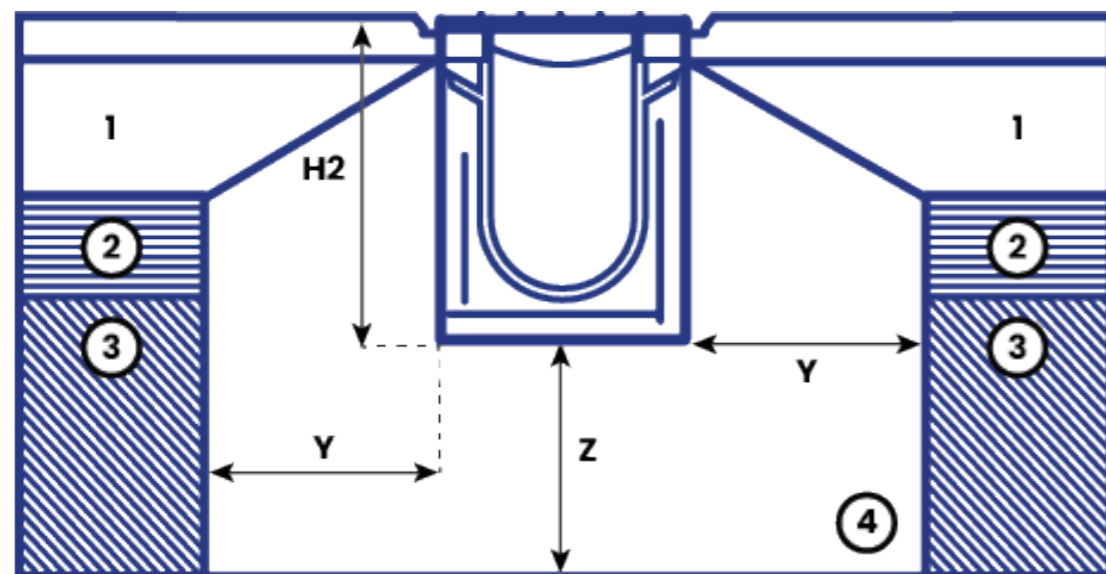
Ground conditions must be suitable and all dimensions shown are the minimum requirement. Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team by emailing us at sales@polycon.co.uk or by calling us on **0151 424 9747**.

1	2	3	4	5	6
Concrete	Sub Base	Earth	Concrete Haunch	Sand Layer	Expansion Joint

Block Paving



Tarmac



Load Class	A15	B125	C250	D400	E600	F900
H2 - Channel Height	Channel Height	Channel Height	Channel Height	Channel Height	Channel Height	Channel Height
Y - Minimum Surround	100mm	150mm	150mm	200mm	200mm	250mm
Z - Minimum Surround	100mm	150mm	150mm	200mm	200mm	250mm
T1 - Minimum Depth	40mm	40mm	40mm	40mm	40mm	40mm
T2 - Maximum Depth	95mm	55mm	55mm	55mm	55mm	55mm

** Minimum Concrete Haunch 25 N/mm².
Detail A allow for overbuild of 3mm to 5mm above the grating surfaces.





Polycon Surface Water Drainage

**Widnes Business Park
Foundry Lane
Widnes
Cheshire
WA8 8UB**

**www.polycon.co.uk
0151 422 9747
sales@polycon.co.uk**

Service . Range . Knowledge