



MonoChannel

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.

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MonoChannel

Polycon's MonoChannel is a testament to modern engineering ingenuity, serving as a prime example of a linear surface drainage system that offers a multitude of benefits for both commercial applications. As a pioneering solution in the world of drainage systems, the MonoChannel's design epitomizes efficiency, sustainability, and safety.

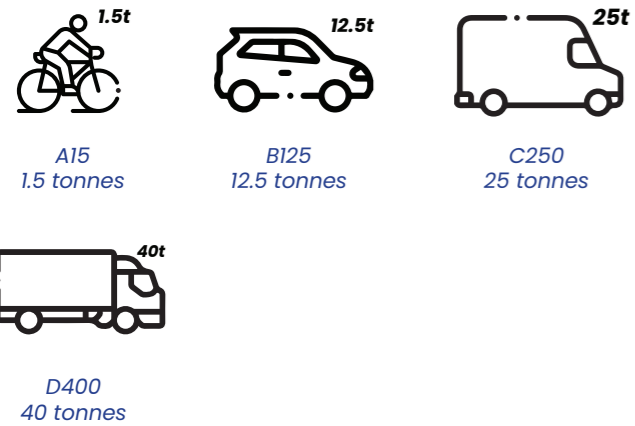
One of the standout features of the MonoChannel is its linear design, providing an uninterrupted pathway for water to flow, making it exceptionally efficient in the removal of surface water and preventing flooding.

The MonoChannel stands out as a beacon of sustainability in the field. The system boasts a high recycled content, contributing to the reduction of environmental impact. Its low carbon footprint underscores Polycon's commitment to eco-conscious design, making it an ideal choice for those who prioritize sustainability.

Additionally, the MonoChannel is notably lighter in weight compared to traditional alternatives, which simplifies installation and maintenance, thereby enhancing safety while reducing labour costs. This lightweight feature is a testament to the system's innovative engineering, further underscoring its forward-thinking approach to surface drainage solutions.



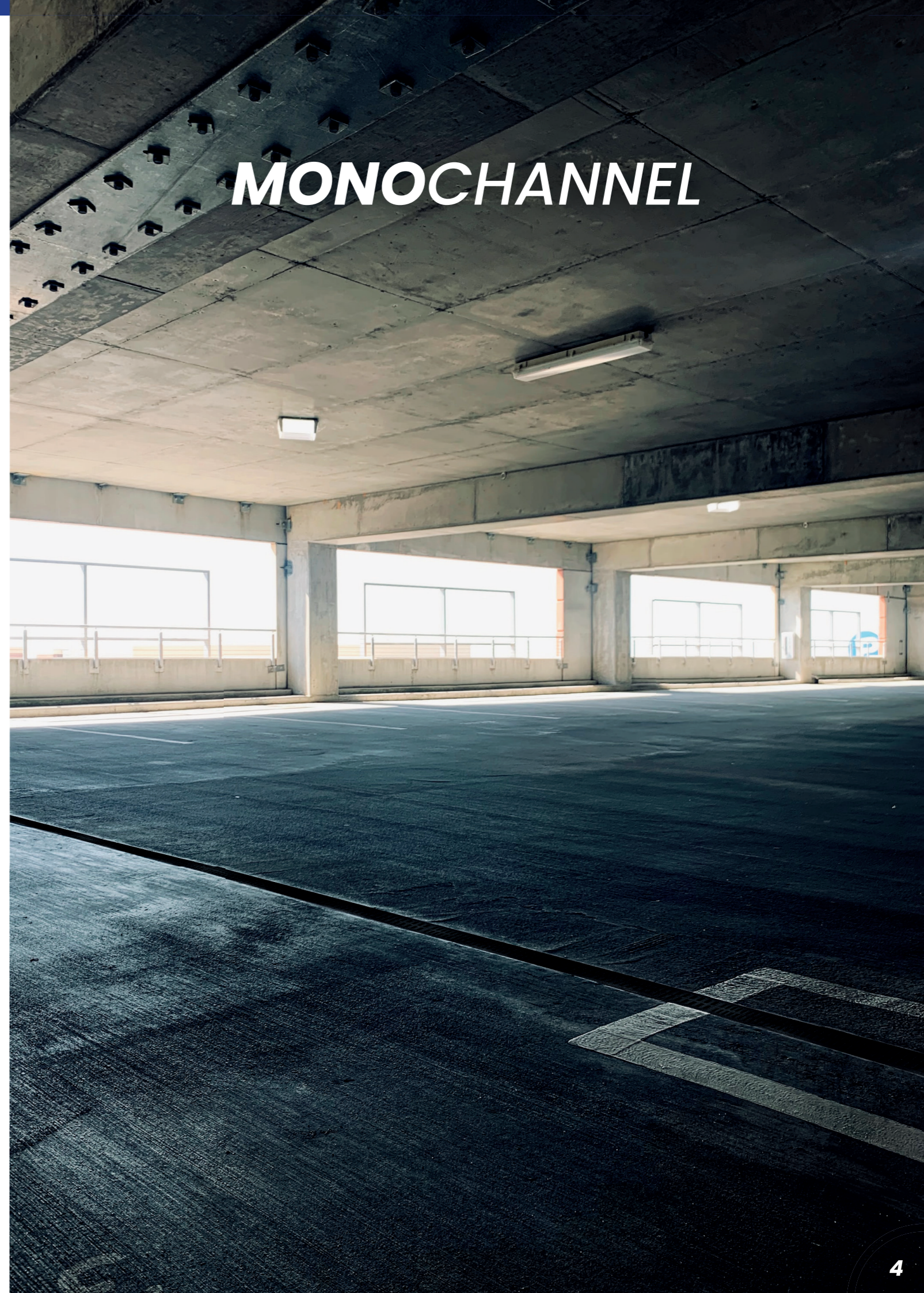
Load Class



Applications

- Roundabouts
- Motorways
- Highly trafficked areas
- Driveways
- Car parks
- Farms
- Commercial & civil areas
- Sports facilities

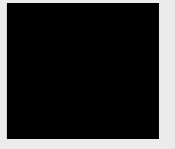
MONOCHANNEL



MonoChannel - Overview

Colour Options

Black



Monolithic Design

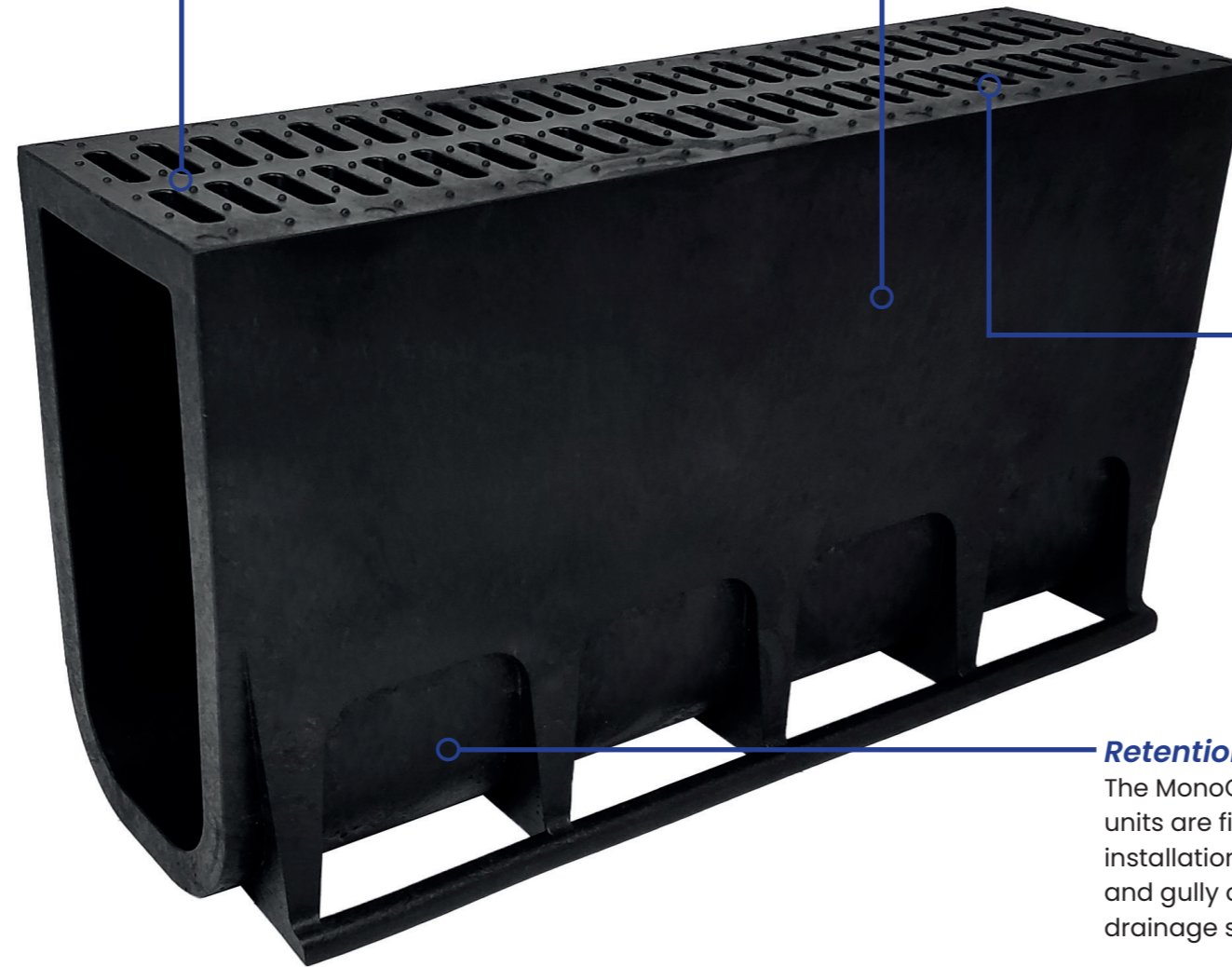
The monolithic construction sets it apart as a reliable and hassle-free choice for addressing drainage needs in various applications, promising both functional excellence and long-lasting performance.

Material

The MonoChannel drainage channel sets a new standard in sustainable construction by incorporating 70% recycled materials into every unit. This innovative design not only ensures efficient water management but also significantly reduces the environmental impact of the project.



SAFEHEEL



Retention Element

The MonoChannel has a unique retention element that ensures all units are fixed and fully integrated with the brace/bed/haunch during installation. Each section of drainage is bound by solid iron access and gully outfalls to give you a truly heavy-duty and robust surface drainage system.

Load Classes



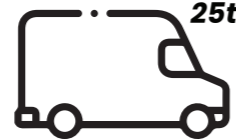
1.5t

A15



12.5t

B125



25t

C250



40t

D400

Depth Options



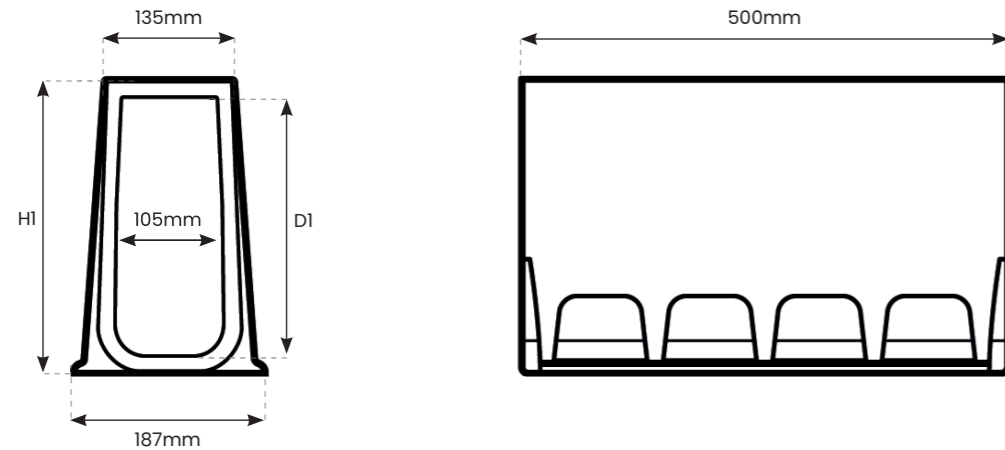
160mm



260mm

MonoChannel

MonoChannel is a cutting-edge linear surface drainage system designed to deliver a highly effective and secure means of draining a wide range of areas, including highways, car parks, and virtually any surface or structure falling within the load category spectrum, up to and including EN1433-D400.



MonoChannel - Specifications

Reference	Description	Length	Internal Width	Grating Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
MC.160	MonoChannel 160mm Depth	500mm	105mm	135mm	187mm	160mm	130mm	A/B/C/D	Yes
MC.260	MonoChannel 260mm Depth	500mm	105mm	135mm	187mm	260mm	220mm	A/B/C/D	Yes

Accessories- Specifications

Reference	Description	Length	Height (H)	Grating Width	Overall Width	Weight (KG)	Outlet
MC.UO.DI	MonoChannel Universal Outfall Ductile Iron	510mm	305mm	360mm	510mm	39kg	-
MC.RAU.DI	MonoChannel Rodding Access Unit Ductile Iron	250mm	360mm	140mm	200mm	18kg	160mm
MC.UECO	MonoChannel Universal End Cap Outlet	5mm	360mm	-	150mm	0.2kg	110mm

Accessories

Universal Outfall

The MonoChannel Universal Outfall is versatile, fitting seamlessly into channels of various depths. It offers a straightforward and spacious outlet for discharging from individual or multiple channel runs. The design ensures unrestricted flow discharge into a standard yard/road gully with a diameter of 300-375mm.



Universal Outfall



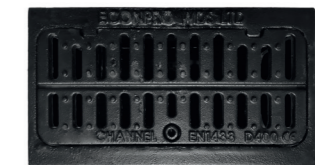
Ductile Iron Grating (D400)

Rodding Access Unit

Access points can be installed at the head of each run of the channel and at regular intervals subject to site conditions. This access unit includes a 162mm diameter outlet pipe connection.



Rodding Access Unit



Ductile Iron Grating (D400)

Universal End Cap Outlet

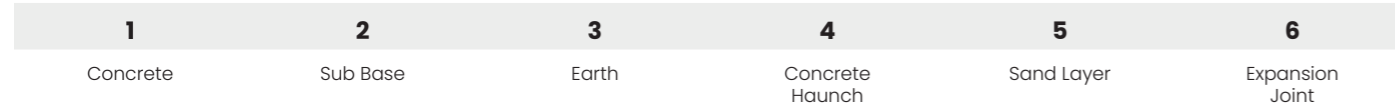
End caps can be used at either end of the channel to stop the flow of water; they can be fitted to access/ outlets and standard units.



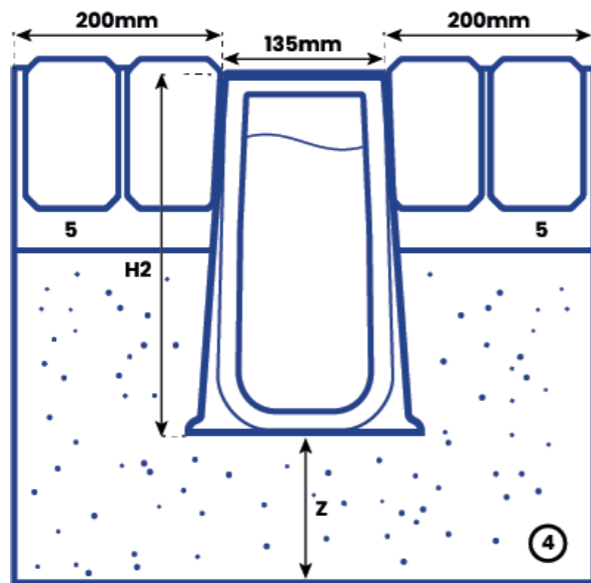
Universal End Cap Outlet

Installation Guide

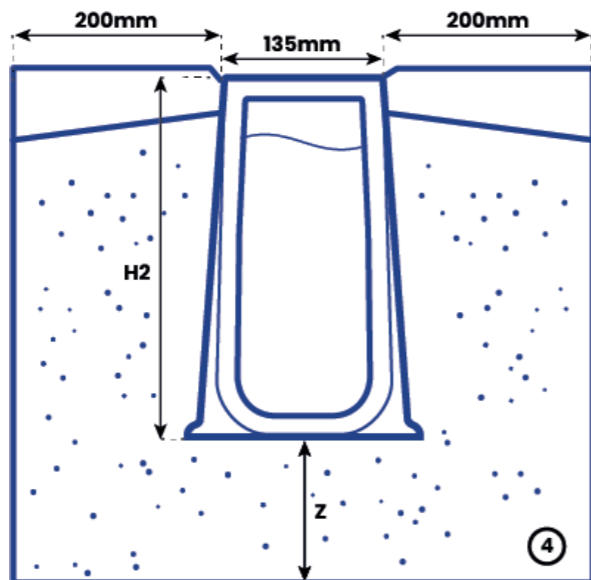
Ground conditions must be suitable and all dimensions shown are the minimum requirement. Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team by emailing us at sales@polycon.co.uk or by calling us on **0151 424 9747**.



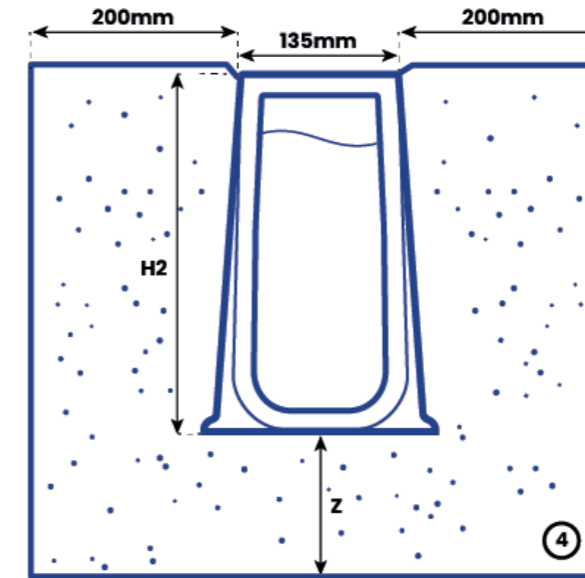
Block Paving



Tarmac



Concrete



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

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