



NDS *Pro Series*

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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Service • Range • Knowledge

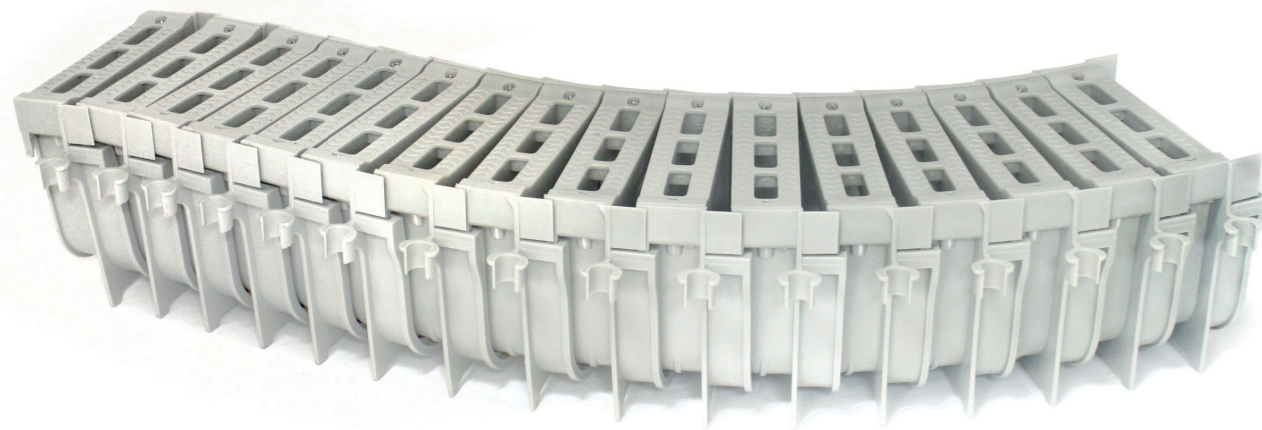
NDS Pro Series

The NDS Pro Series drainage Channel is a cutting-edge solution designed to excel in various drainage applications. One of its standout features are the extended side ribs, which significantly enhances channel strength. These robust side ribs provide exceptional support, ensuring the system can bare substantial loads and endure challenging environmental conditions.

What sets the NDS Pro Series apart is its ingenious Qwik-Turn coupling technology. This feature enables the effortless creation of curved channels, providing unparalleled design flexibility. Whether you're working on a landscaping project with winding pathways or need a drainage system to conform to unique layouts, the Qwik-Turn coupling simplifies the process, making it suitable for a wide range of applications.

To further ensure the longevity of the NDS Pro Series, UV inhibitors are incorporated into the channel material. This prevents fading and cracking due to prolonged sun exposure, preserving both the aesthetics and structural integrity of the system. This UV resistance is particularly valuable for outdoor installations, where the channel must maintain its performance and appearance over time.

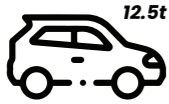
The NDS Pro Series Drainage Channel also boasts bottom outlets and side knockouts, offering approximately 8 knockouts per channel section. This feature grants engineers and installers' unparalleled design and installation flexibility. The system can be customised to fit specific project requirements with ease, minimizing material waste and streamlining the installation process. This level of adaptability makes the NDS Pro Series a top choice for professionals seeking efficiency and versatility in drainage solutions.



Load Class



A15
1.5 tonnes



B125
12.5 tonnes

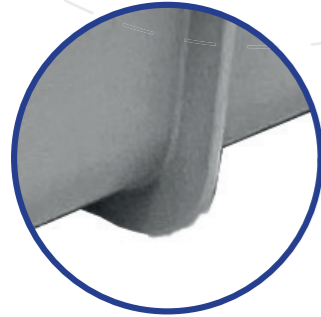
Applications

- Landscaping areas
- Courtyards
- Plazas
- Pool areas
- Sports facilities

NDS PRO SERIES



NDS Pro Series - Overview



Channel Ribs

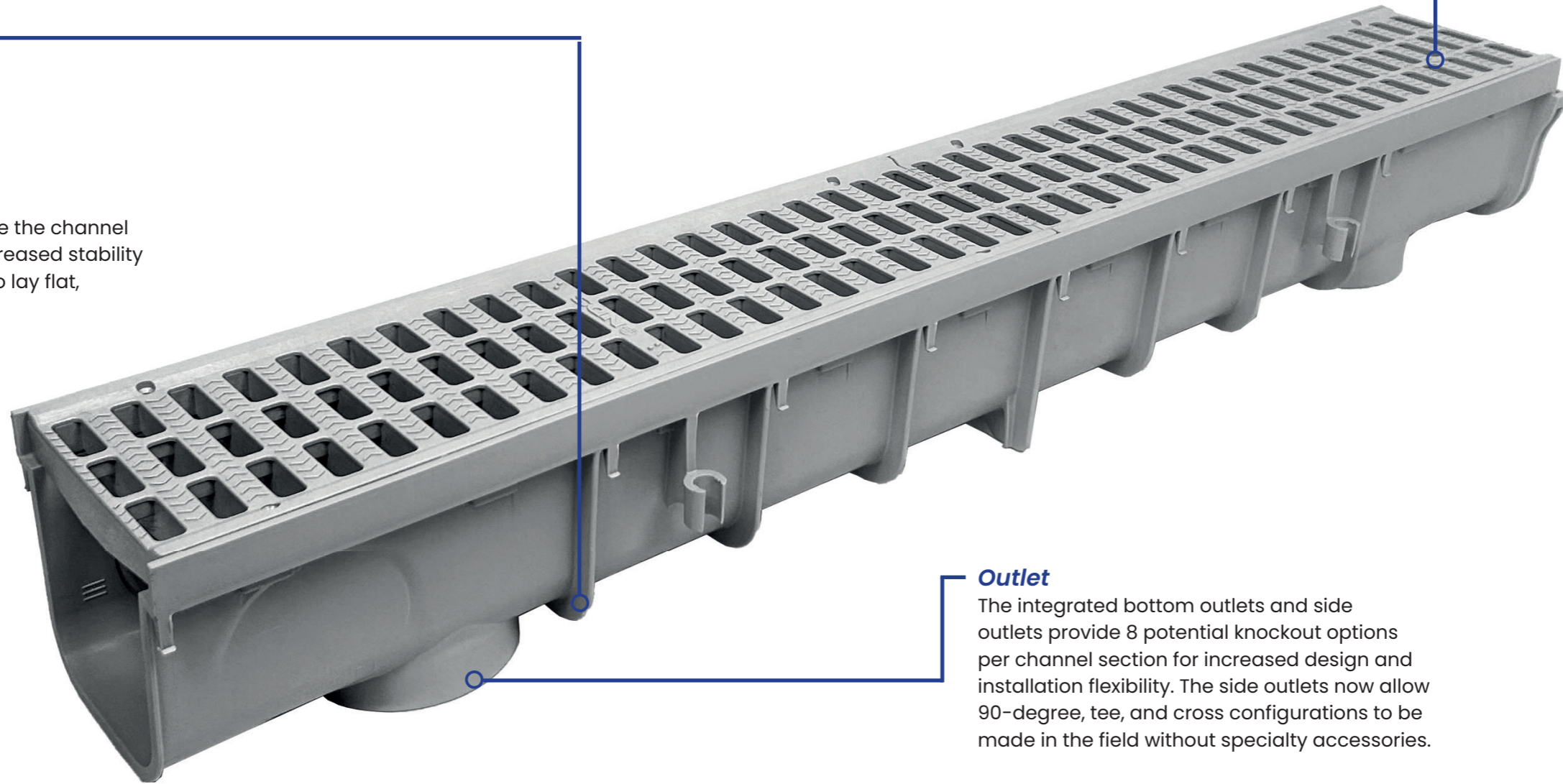
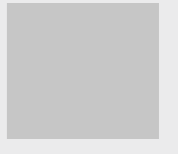
The channel's external ribs provide the channel with exceptional strength and increased stability whilst also allowing the channel to lay flat, easing the installation process.

Material

The NDS Pro Series system is a lightweight, drainage channel made from polyethylene. This material boasts a robust exterior whilst also being extremely lightweight. This aids in eliminating labour costs due to minimal / no machinery needed for its installation. It is a durable solution for urban projects and its enhanced protection means water vapour cannot pass through it.

Colour Options

Grey



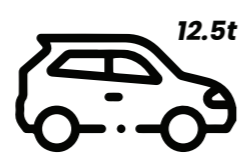
Outlet

The integrated bottom outlets and side outlets provide 8 potential knockout options per channel section for increased design and installation flexibility. The side outlets now allow 90-degree, tee, and cross configurations to be made in the field without specialty accessories.

Load Classes



A15



B125

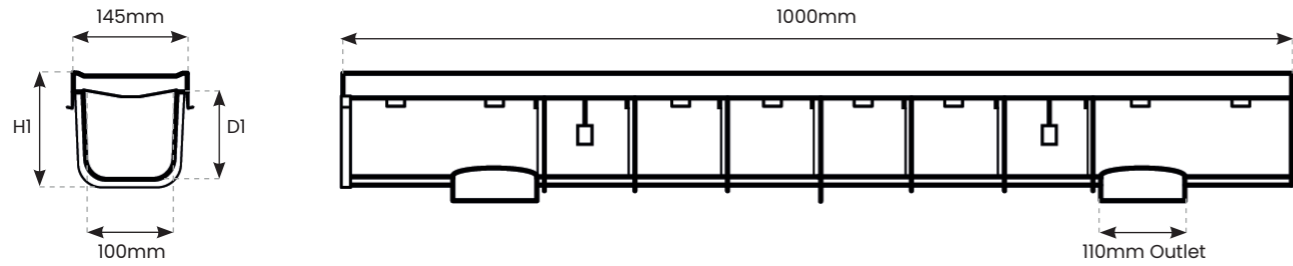
Depth Options



195mm

NDS Pro Series

The NDS Pro Series channel is a lightweight drainage system, designed with a multitude of advantages. Its modular design offers great flexibility as each section of the channel can be snapped together for longer runs or divided down to lengths as short as 4" for smaller, interlocking sections.



Accessories

Qwik-Turn Radius Coupling

The NDS Pro Series Qwik-Turn Radius Coupling allows for curving layouts with up to 6 degrees of deflection between couplings and channels – NDS is the only drainage manufacturer to offer this incredible ability.



Qwik-Turn Radius Coupling

End Cap & Outlet

End caps are used at the end of the channel run to stop the flow of water. The outlet can be used to direct the flow of water towards an external drainage system.



End Cap / Outlet

Accessories - Specifications

Reference	Description	Height (H)	Overall Width	Length	Load Class	Outlet
QTRC.NDS.PS.W	NDS Pro Series Qwik-Turn Radius Coupling White	140mm	190mm	60mm	A/B	-
QTRC.NDS.PS.G	NDS Pro Series Qwik-Turn Radius Coupling Grey	140mm	190mm	60mm	A/B	-
ECO.NDS.PS	NDS Pro Series End Cap Outlet	125mm	140mm	50mm	-	110mm

Grating Options



Grey Grating (B125)



Black Grating (B125)



White Grating (B125)



Tan Grating (B125)

Grating - Specifications

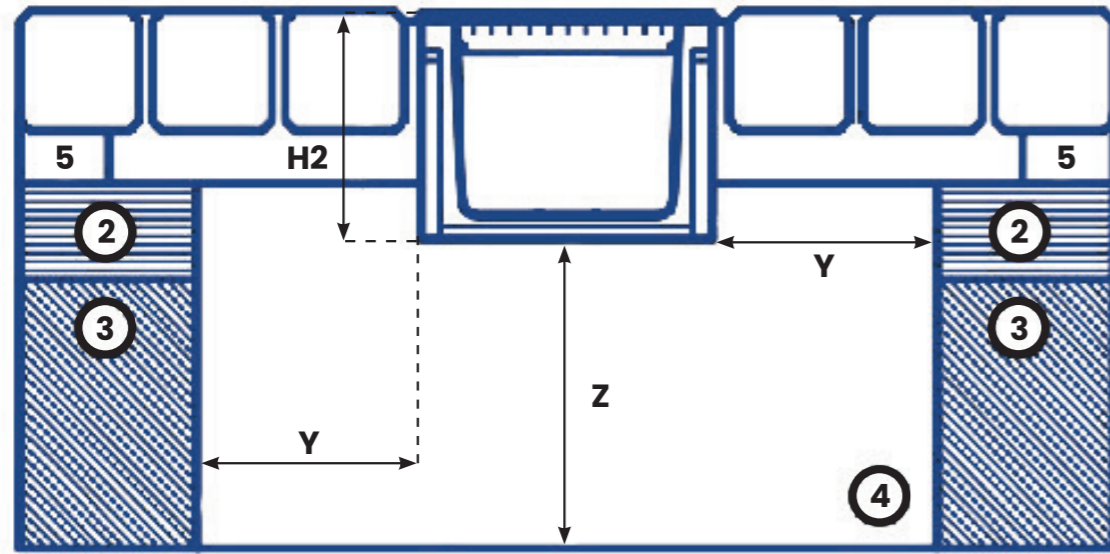
Reference	Description	Internal Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
NDS.PS.GG	NDS Pro Series Channel + 2x 500mm Grey Grating	100mm	145mm	130mm	100mm	A/B	-
NDS.PS.BG	NDS Pro Series Channel + 2x 500mm Black Grating	100mm	145mm	130mm	100mm	A/B	-
NDS.PS.WG	NDS Pro Series Channel + 2x 500mm White Grating	100mm	145mm	130mm	100mm	A/B	-
NDS.PS.TG	NDS Pro Series Channel + 2x 500mm Tan Grating	100mm	145mm	130mm	100mm	A/B	-

Installation Guide

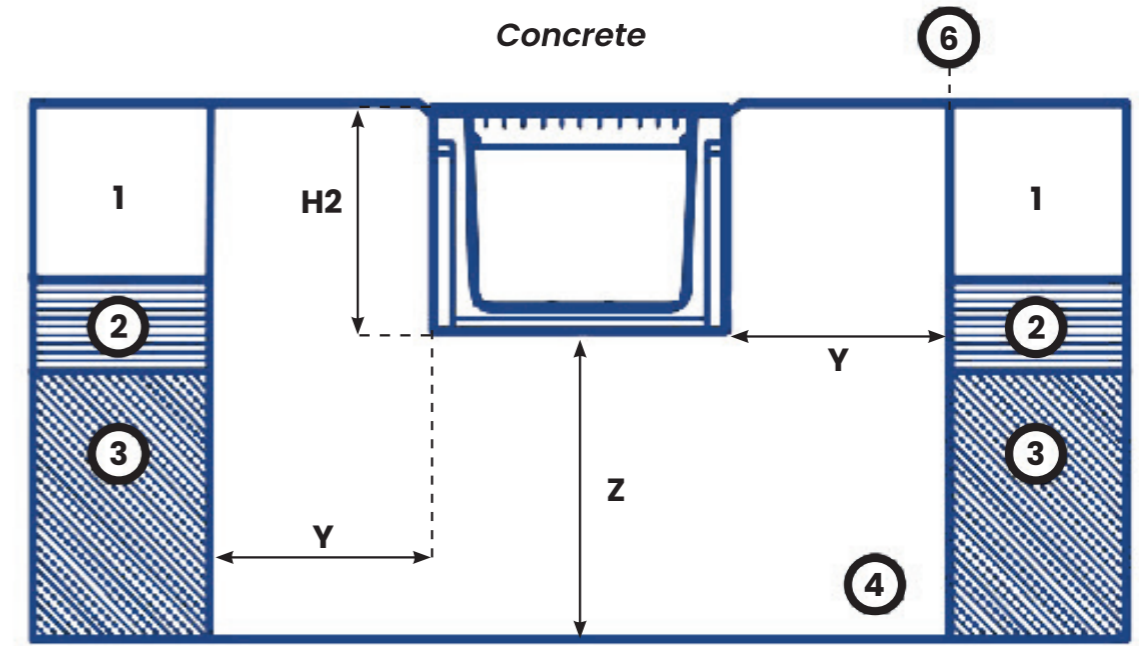
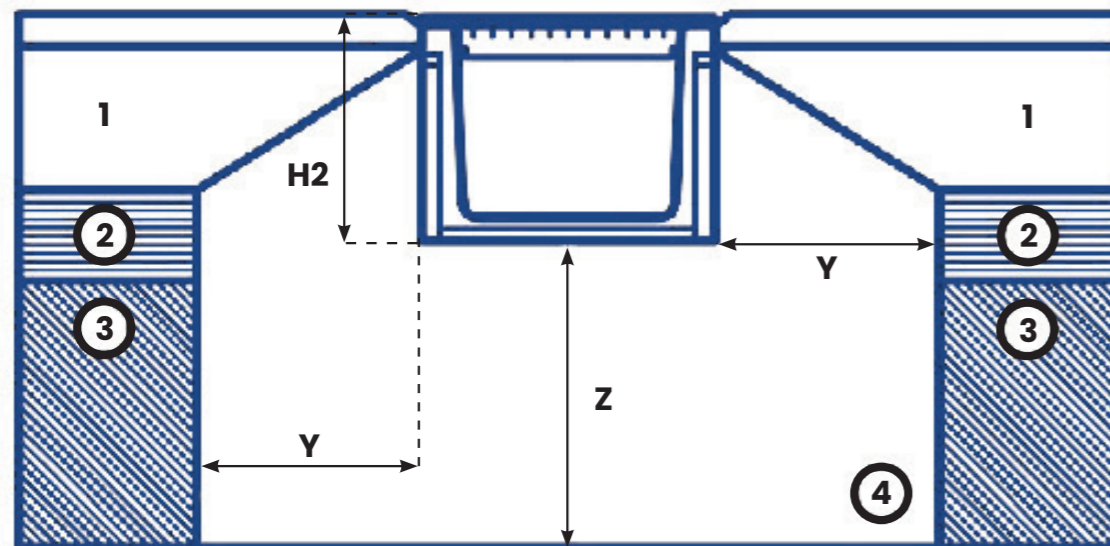
Ground conditions must be suitable and all dimensions shown are the minimum requirement. Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team by emailing us at sales@polycon.co.uk or by calling us on **0151 424 9747**.

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

Block Paving



Tarmac



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