



SELF *Eco 150*

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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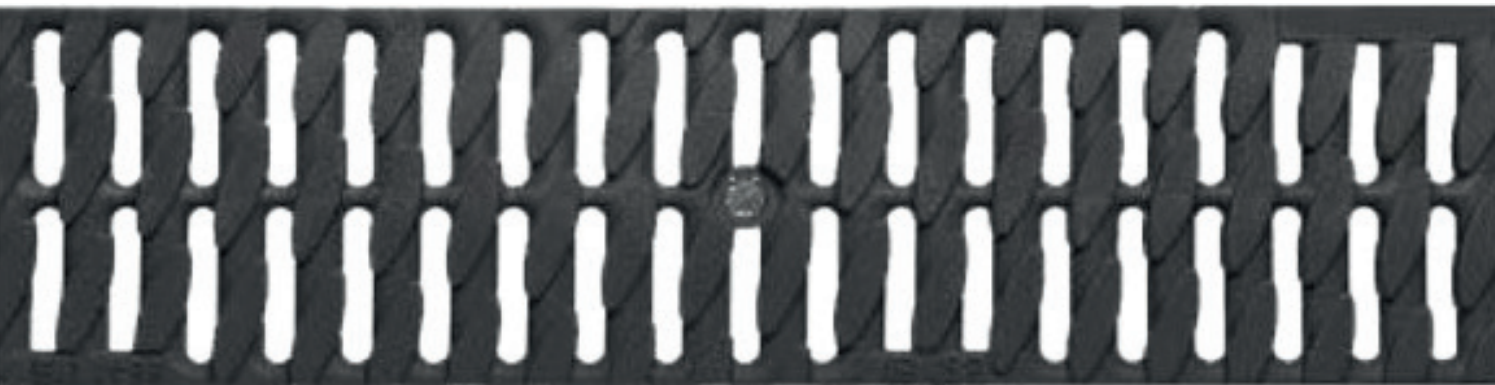
SELF ECO 150

The Self Eco 150, supplied by Polycon, is a cutting-edge channel system that has revolutionized the way we manage water in larger domestic projects and areas with increased rainfall. This innovative channel is designed to offer a range of benefits that make it a standout choice for those seeking efficient water management solutions.

One of the primary advantages of the Self Eco 150 channel is its remarkable water-holding capacity. When it comes to larger domestic projects or regions prone to heavy rainfall, the need for effective water drainage and retention cannot be overstated.

This channel excels in this regard, as it can efficiently collect and hold substantial amounts of water. This feature is particularly crucial for preventing water build-up and potential flooding, ensuring the safety and aesthetics of the surrounding area.

Additionally, the Self Eco 150 is engineered to withstand the rigors of time and environmental challenges. Constructed from high-quality materials, it boasts exceptional durability and longevity, reducing the need for frequent replacements and maintenance. This not only saves costs but also minimizes the environmental impact associated with constant product replacement.



Load Class



1.5t

A15
1.5 tonnes



12.5t

B125
12.5 tonnes



25t

C250
25 tonnes

Applications

- Gardens
- Driveways
- Pedestrian areas
- Farms

SELF ECO 150

VIRTUAL LANDSCAPE

Not sure what you are looking for?

Check out our Self Eco 150 systems against multiple paving backgrounds on our virtual landscape feature. You can mix and match gratings against multiple backgrounds to achieve the ultimate desired look. Each visual can be downloaded as a PDF and sent to customers along with a technical overview of your chosen system.

Try today at www.polycon.co.uk.

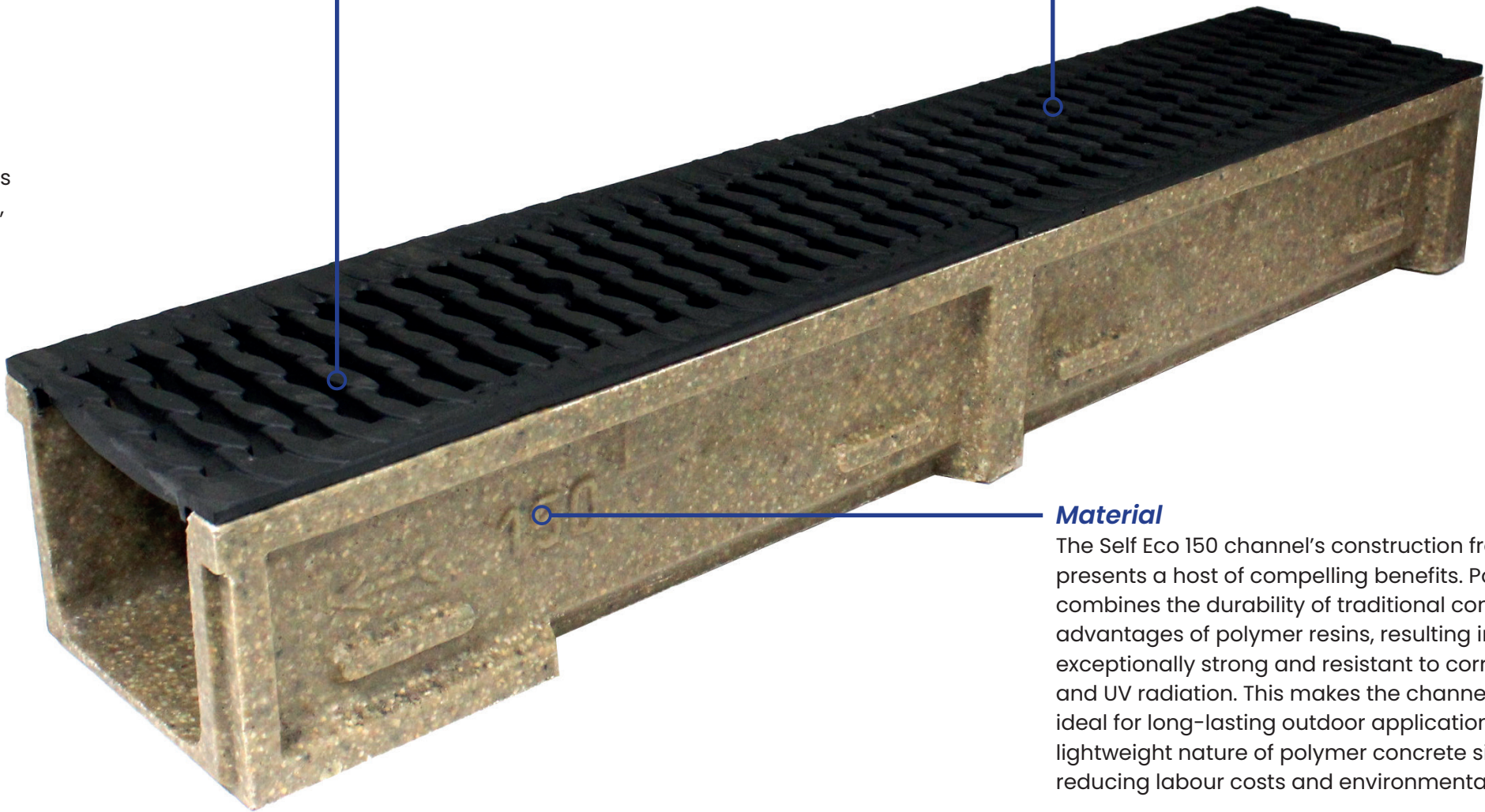


SELF ECO 150 – Overview



Grating Options

The Self Eco 150 drainage channel offers exceptional versatility and adaptability, thanks to its distinct grating options: steel slotted, steel mesh, and cast-iron oval grip. Additionally, the Self Eco 150 can also offer both galvanized and stainless steel paveslot grating, allowing you to create sleek and aesthetically pleasing landscape.



Bolt & Bar

Bolt & Bar fastenings are optimised for the specific load classes and unite reliability and high quality with functional design.

Colour Options



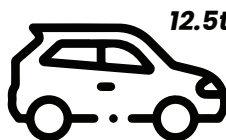
Material

The Self Eco 150 channel's construction from polymer concrete presents a host of compelling benefits. Polymer concrete combines the durability of traditional concrete with the added advantages of polymer resins, resulting in a material that is exceptionally strong and resistant to corrosion, chemicals, and UV radiation. This makes the channel highly durable and ideal for long-lasting outdoor applications. Furthermore, the lightweight nature of polymer concrete simplifies installation, reducing labour costs and environmental impact.

Load Classes



A15



B125

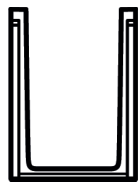


C250

Depth Options



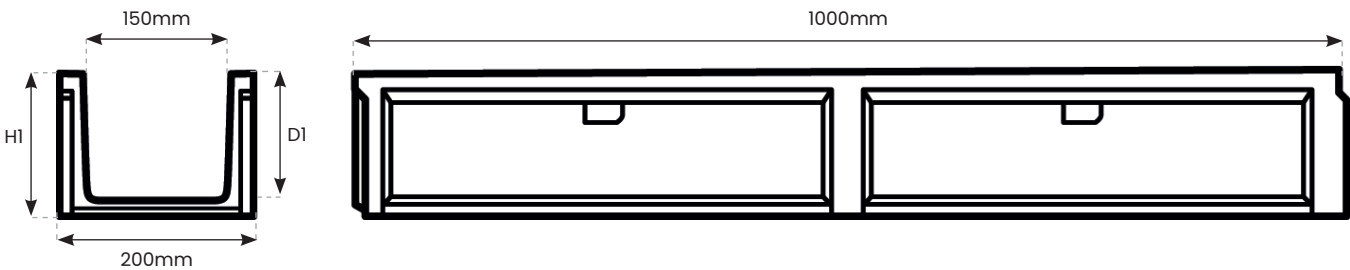
80mm



150mm

SELF ECO 150.80

The Self Eco 150 channel supplied by Polycon is a game-changer in the field of water management for domestic projects and areas with high rainfall. Its ability to effectively capture and retain large volumes of water and its adaptability and durability make it a standout choice for professionals and organisations seeking efficient and reliable solutions to their water management challenges.



Accessories

Self 150 Sump Unit acts as a reservoir, temporarily storing excess water before discharging it in a controlled manner to prevent adverse effects of water accumulation.

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



Foul Air Trap

A Foul Air Trap is used to prevent foul or unpleasant odours from sewage or wastewater from escaping through the drainage channel and into the surrounding environment.



Foul Air Trap

110mm Spigot

110mm Spigot allows you to connect your channel outlet to a pipe. A Spigot typically refers to a male end of a pipe or fitting that is designed to fit into a corresponding female socket or connection.



110mm Spigot

Accessories- Specifications

Reference	Description	Length	Height (H)	Overall Width	Weight (KG)	Outlet
SELF.ECO.150.SU	Self Eco 150 Sump Unit	500mm	585mm	200mm	21kg	110mm
SELF.ECO.150.S110	Self Eco 150 110mm Spigot	110mm	100mm	110mm	0.8kg	110mm
SELF.ECO.150.FT	Self Eco 150 Foul Trap	30mm	150mm	85mm	0.4kg	110mm
SELF.ECO.150.ECO	Self Eco 150 End Cap Outlet	22mm	160mm	200mm	1.2kg	110mm
SELF.ECO.150.EC	Self Eco 150 End Cap	25mm	100mm	200mm	0.8kg	-

Grating Options - 80mm



Steel Slotted Grating (A15)



Mesh Steel Grating (B125)



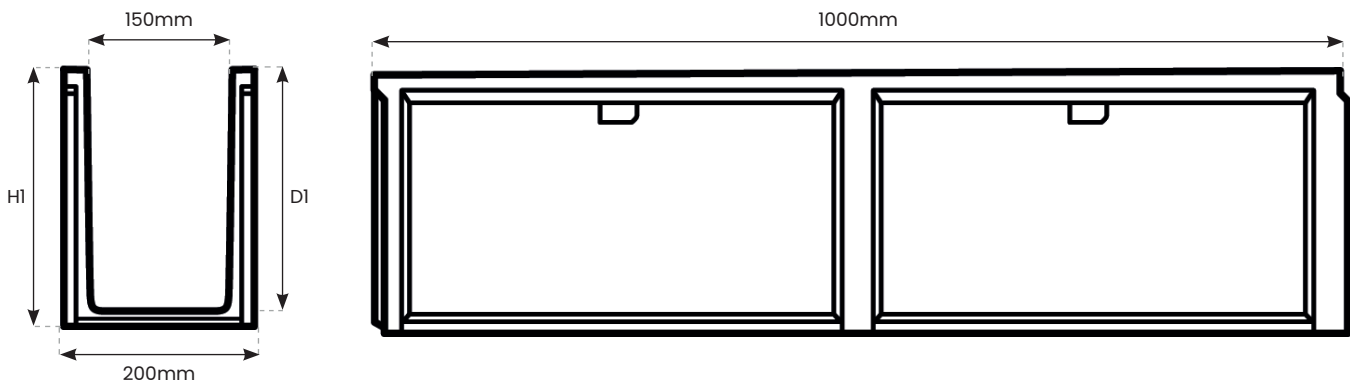
Cast-Iron OvalGrip Grating (C250)

Grating - Specifications

Reference	Description	Length	Internal Width	Overall Width	Overall Depth(H)	Internal Depth(D1)	Load Class	Safe Heel
SELF.150.SSG	Self Eco 150.80 + Steel Slotted Grating	500/1000mm	100mm	200mm	80mm	60mm	A	No
SELF.150.MSG	Self Eco 150.80 + Mesh Steel Grating	500/1000mm	100mm	200mm	80mm	60mm	A/B	No
SELF.150.CIOG	Self Eco 150.80 + Cast Iron OvalGrip Grating	500mm	100mm	200mm	80mm	60mm	A/B/C	No

SELF ECO 150.150

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Grating Options - 150mm



Steel Slotted Grating (A15)



Mesh Steel Grating (B125)



Cast-Iron OvalGrip Grating (C250)

Grating - Specifications

Reference	Description	Length	Internal Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
SELF.150.SSG	Self Eco 150.150 + Steel Slotted Grating	500/1000mm	100mm	200mm	150mm	130mm	A	No
SELF.150.MSG	Self Eco 150.150 + Mesh Steel Grating	500/1000mm	100mm	200mm	150mm	130mm	A/B	No
SELF.150.CIOG	Self Eco 150.150 + Cast Iron OvalGrip Grating	500mm	100mm	200mm	150mm	130mm	A/B/C	No

SELF ECO 150 – Offset Paveslot

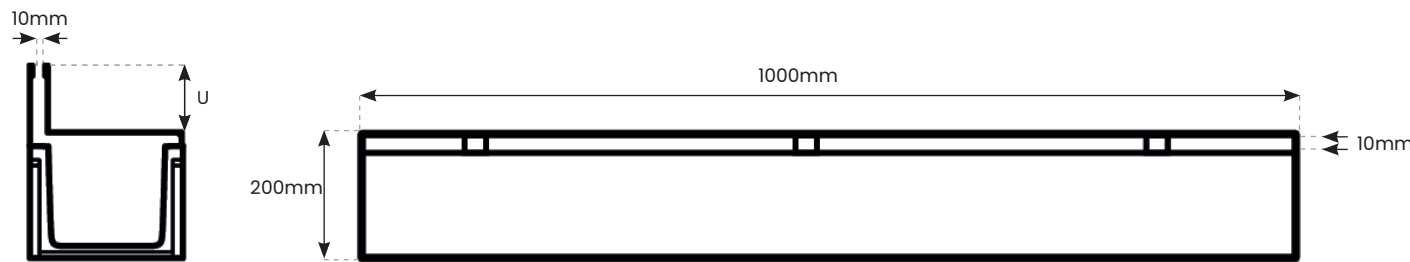
Self Eco Paveslot is specifically designed for integration into high-quality natural stone and paving surfaces. The discrete inlet slot enables efficient drainage without compromising the ground design. We offer Galvanised and Stainless Steel Paveslot as well as an access tray for cleaning purposes.



Paveslot Options



Diagram – Offset Paveslot



Grating – Specifications

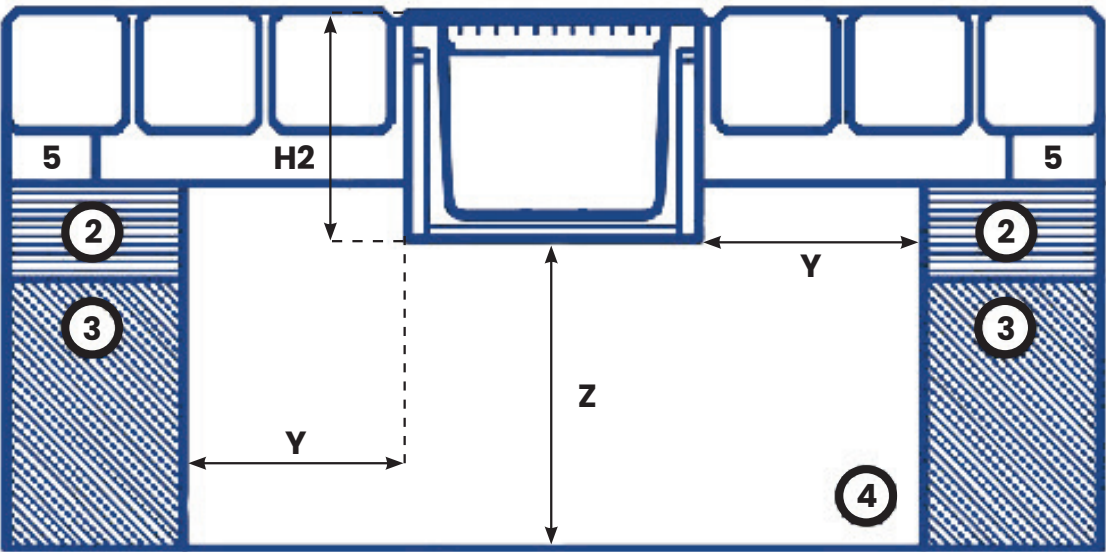
Reference	Description	Length (mm)	Slot Width	Overall Width	Load Class	Upstand (U)
SELF.150.GOP	150 Galvanised Offset Paveslot	1000	10	200	C250	60mm
SELF.150.SSOP	150 Stainless Steel Offset Paveslot	1000	10	200	C250	60mm

Installation Guide

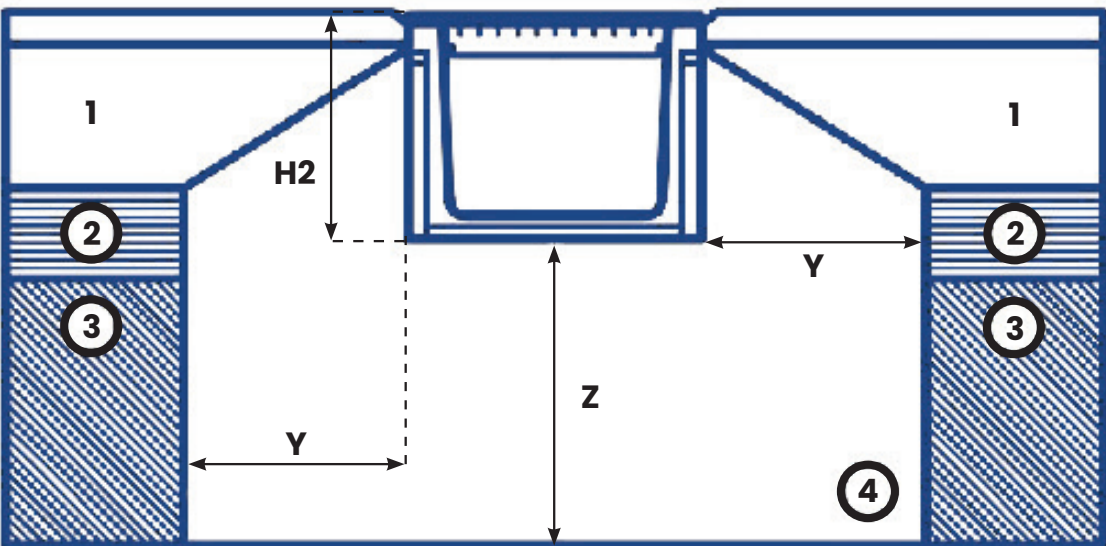
Ground conditions must be suitable and all dimensions shown are the minimum requirement. Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team by emailing us at sales@polycon.co.uk or by calling us on 0151 424 9747.

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

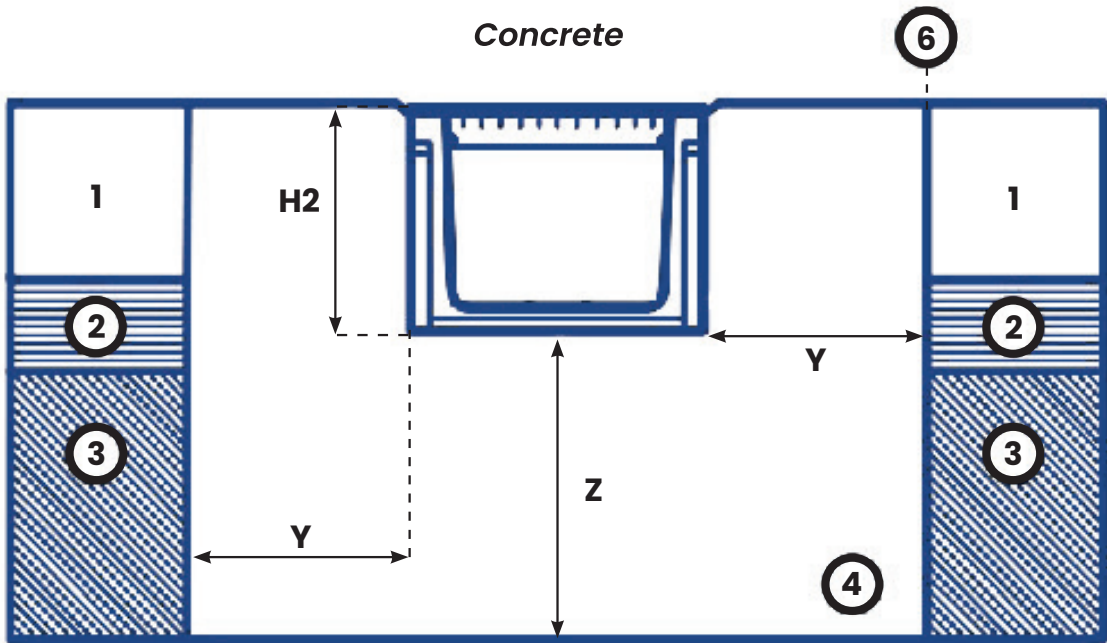
Block Paving



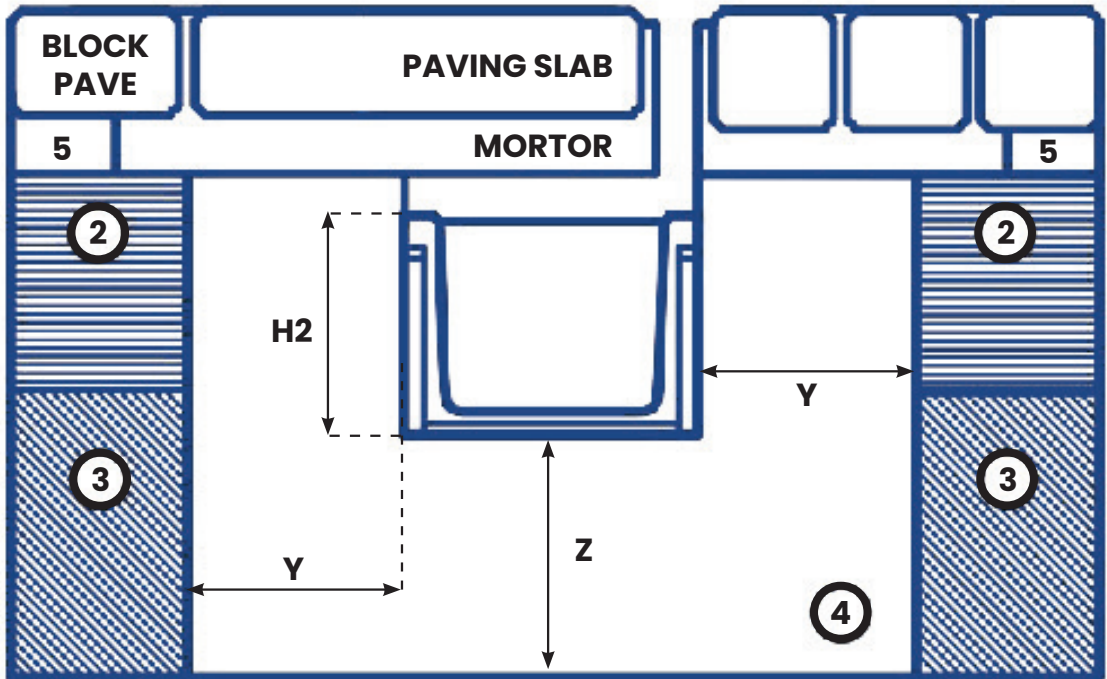
Tarmac



Concrete



Paveslot



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