



# **SELF 100** *Pro SMC*

*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 on creating a diverse range of water solutions, in various materials, including composite, polymer concrete, SMC, and steel.

Polycon's unique look at the market and expert knowledge of the industry ensures 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 your drainage needs the best product/solution. 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.

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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**

# SELF 100 Pro SMC

Introducing the Self 100 Pro SMC by Polycon, a cutting-edge channel drainage solution that sets new standards in robustness and reliability for urban and domestic drainage needs. Crafted from high-quality Sheet Moulded Composite (SMC) materials, this innovative drainage system is engineered to withstand the harshest conditions while offering unmatched versatility.

One of the key benefits of the Self 100 Pro-SMC is its exceptional robustness. Whether facing heavy traffic loads in urban environments or enduring the rigors of domestic use, this drainage system stands tall. Its durability ensures long-term performance, reducing the need for frequent maintenance and replacement, making it a cost-effective solution for any application.

In urban areas plagued by drainage issues, reliability is paramount. The Self 100 Pro SMC offers a dependable solution, effectively managing stormwater, preventing flooding, and maintaining efficient drainage systems.

The Self 100 Pro SMC also offers versatility through its compatibility with seven different grating options. This adaptability allows users to tailor the system to their specific needs, whether for aesthetic appeal or functional requirements.

In summary, the Self 100 Pro SMC by Polycon represents a game-changing solution for urban and domestic drainage challenges. With its unmatched robustness, reliability, use of high-strength SMC materials, and compatibility with multiple grating options.

## Load Class



1.5t

A15  
1.5 tonnes



12.5t

B125  
12.5 tonnes

## Applications

- Driveways
- Pedestrian Areas
- Gardens & Patios

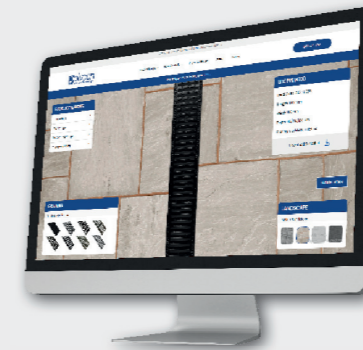
# SELF 100 Pro SMC

## VIRTUAL LANDSCAPE

### Not sure what you are looking for?

Check out our Self 100 Pro SMC 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](http://www.polycon.co.uk).



# SELF 100 Pro SMC - Overview



## Grating Options

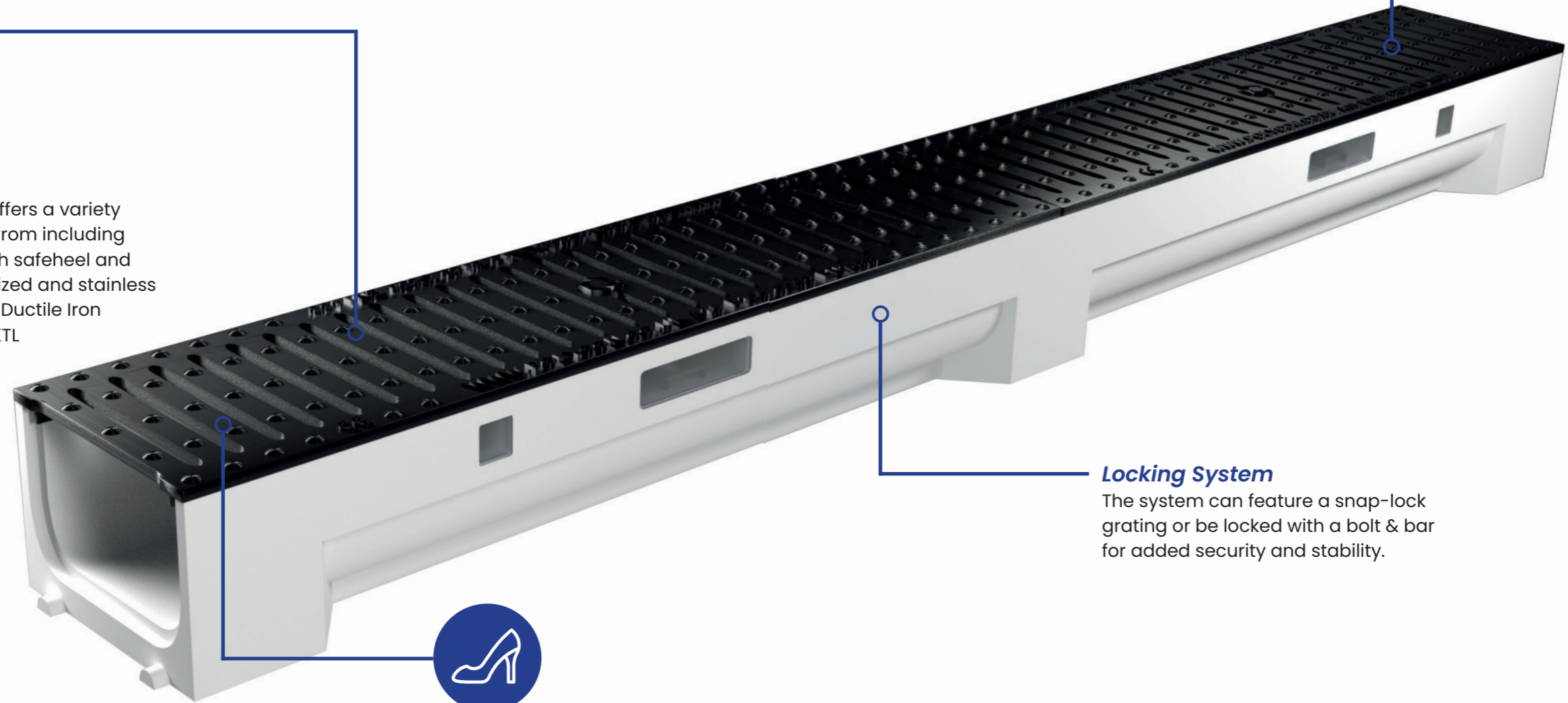
The Self 100 Pro-SMC channel offers a variety of different gratings to choose from including galvanized slotted grating (both safeheel and non-safeheel variants), galvanized and stainless paveslot grating, Epoxy coated Ductile Iron grating and the sophisticated KTL frosted ductile iron grating. This empowers the system and its users with the flexibility to select the perfect grating type for their specific needs.

## Material

The Self Pro SMC is manufactured from sheet moulded composite. This creates a strong, lightweight, yet robust system that can withstand high strength.

## Colour Options

White



## Locking System

The system can feature a snap-lock grating or be locked with a bolt & bar for added security and stability.

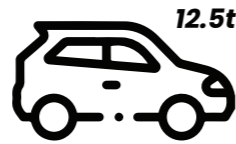


SAFEHEEL

## Load Classes



A15



B125

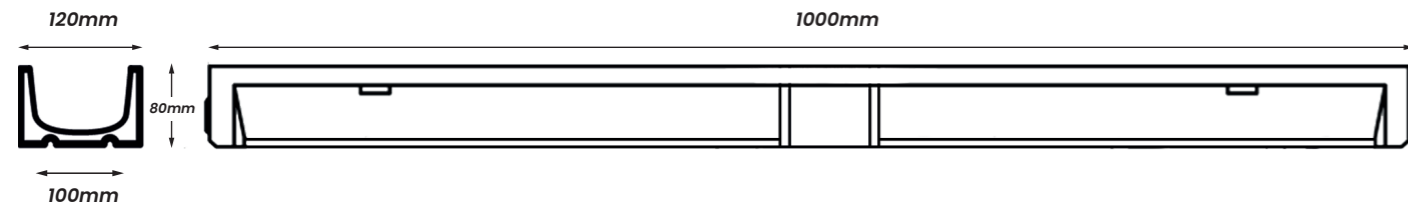
## Depth Options



80mm

# SELF 100 Pro SMC - 80mm

The Self 100 Pro SMC is a highly durable system with features comparable to the Self Pro Polymer. The key difference is the mould material, nevertheless, both systems provide a long-lasting and dependable solution for all urban and home applications.



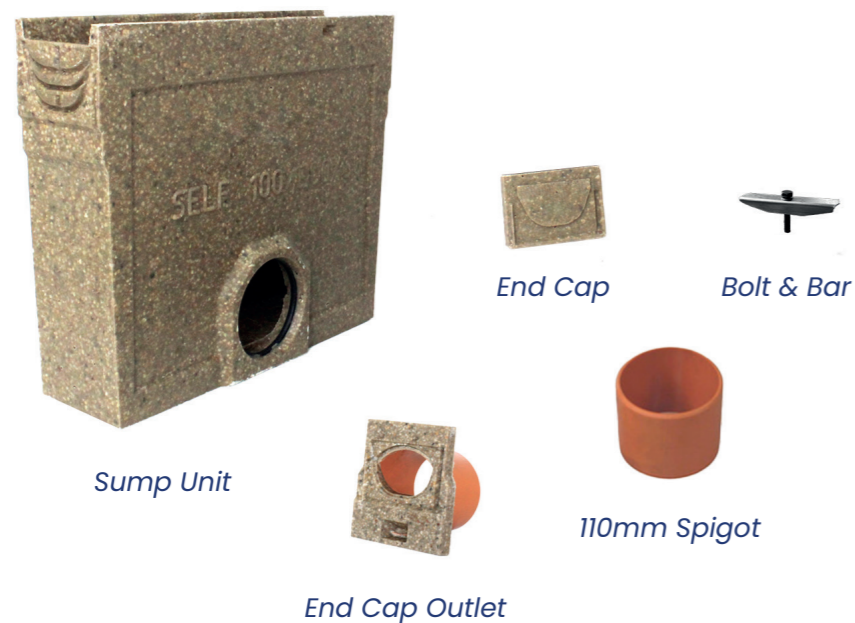
## Accessories

**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 sump unit also acts as a filter to help collect silt.

**End Cap** - End caps can be used at the end of your channel run to stop the flow of water.

**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.

**110mm Spigot** - This 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.



## Accessory - Specifications

Reference	Description	Length (mm)	Height (mm)	Overall Width	Weight (KG)	Outlet (mm)
SUMP.SELF.SMC	Self SMC Sump Unit	500	400	120	14.8	110
EC.SELF.SMC	Self SMC End Cap	25	100	120	0.4	-
EO.SELF.SMC	Self SMC End Cap Outlet	22	160	120	0.7	110
BB.SELF.SMC	Self SMC Bolt & Bar	100	40	25	0.5	-
S.SELF.SMC	Self SMC Spigot	110	100	110	0.8	110

## Grating Options - 80mm

The Self Pro SMC channel is compatible with four different gratings. The table below discusses the benefits and features of each different grating and the range of materials available.



Galvanised Slotted Steel (A15)



Galvanised Slotted SafeHeel (A15)



Epoxy Ductile Iron Slotted (B125)



KTL Frosted Ductile Iron Slotted (B125)



Galvanised/Stainless Steel Offset Paveslot (B125)

## Grating - Specifications

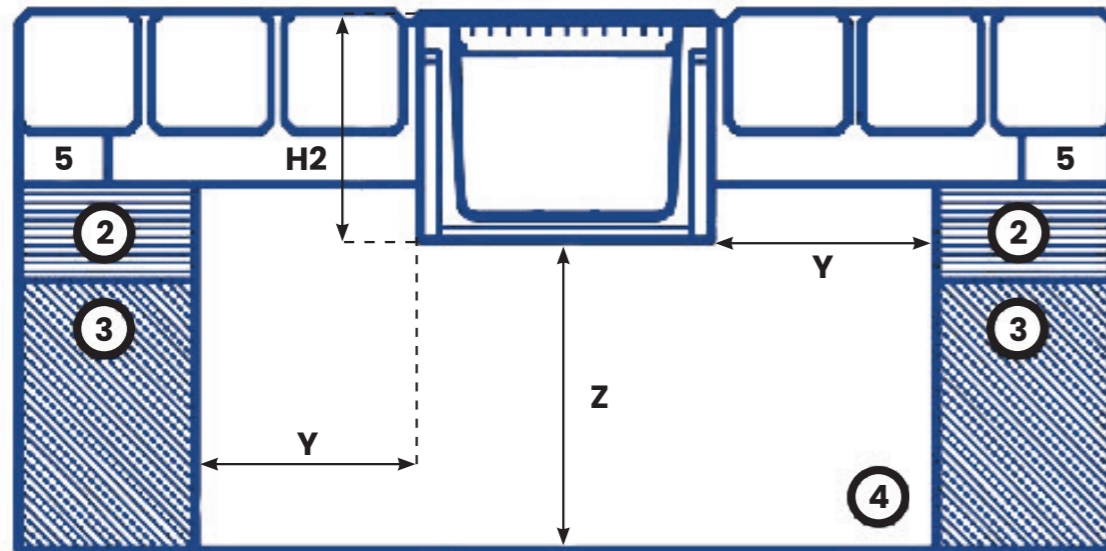
Reference	Description	Length (mm)	Slot Width	Overall Width	Load Class	SafeHeel
GR.100.GS	Galvanised Slotted Steel	1000	10	120	A15	-
GR.100.GSH	Galvanised Safeheel Slotted	1000	6	120	A15	✓
GR.100.EDI	Epoxy Ductile Iron Slotted	500	8	120	B125	✓
GR.100.FDI	KTL Frosted Ductile Iron Slotted	500	8	120	B125	✓
GR.SSOP.60	Stainless Steel Offset Paveslot	1000	10	120	B125	✓
GR.GOP.60	Galvanised Offset Paveslot	1000	0	120	B125	✓

# Installation Guide

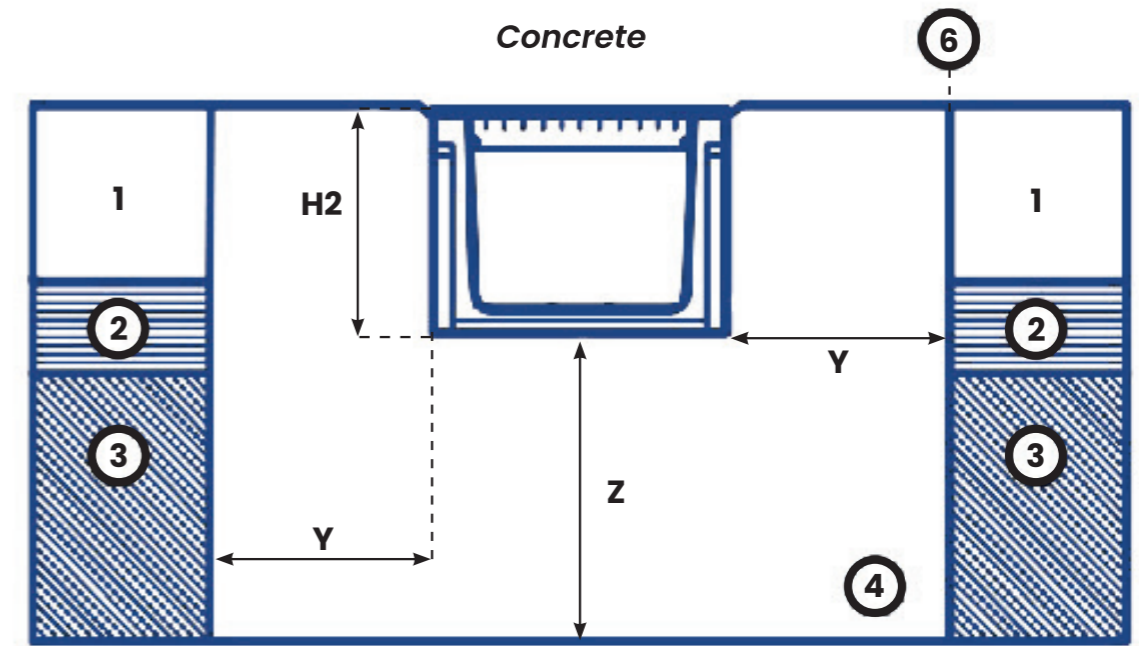
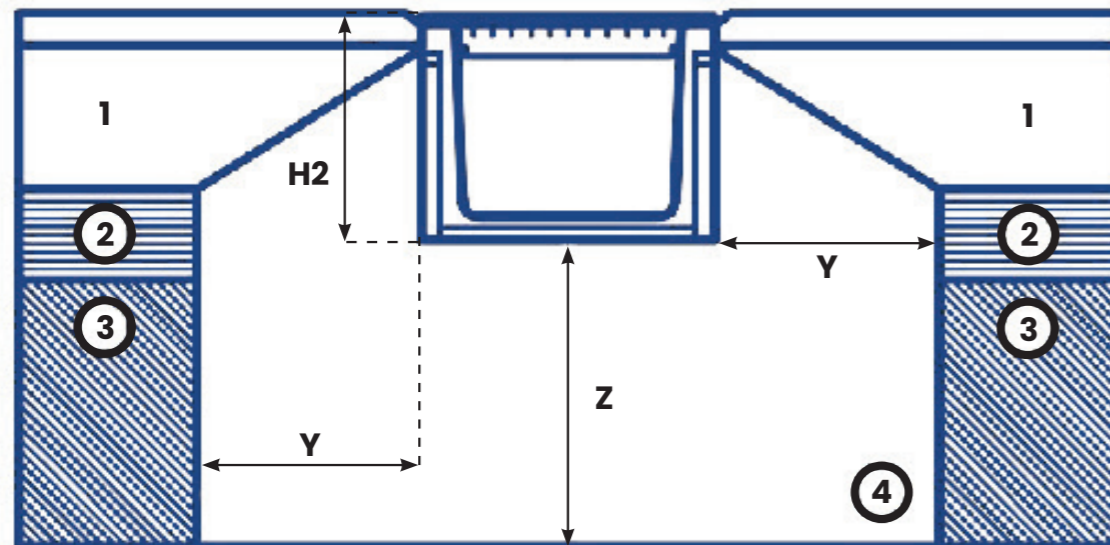
Ground conditions must be suitable and all dimensions shown are the minimum requirement. Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team by emailing us at [sales@polycon.co.uk](mailto:sales@polycon.co.uk) or by calling us on **0151 424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

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

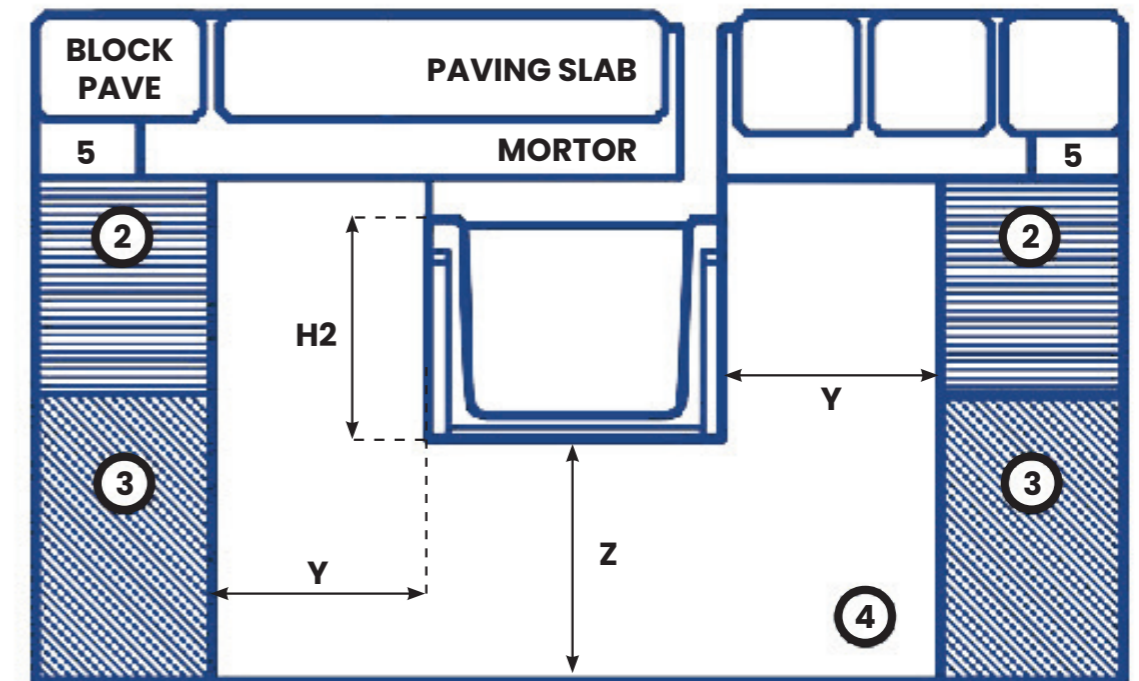
**Block Paving**



**Tarmac**



**Paveslot**



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/mm<sup>2</sup>.  
Detail A allow for overbuild of 3mm to 5mm above the grating surfaces.



**Polycon Surface Water Drainage**

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