



SELF *Eco 100*

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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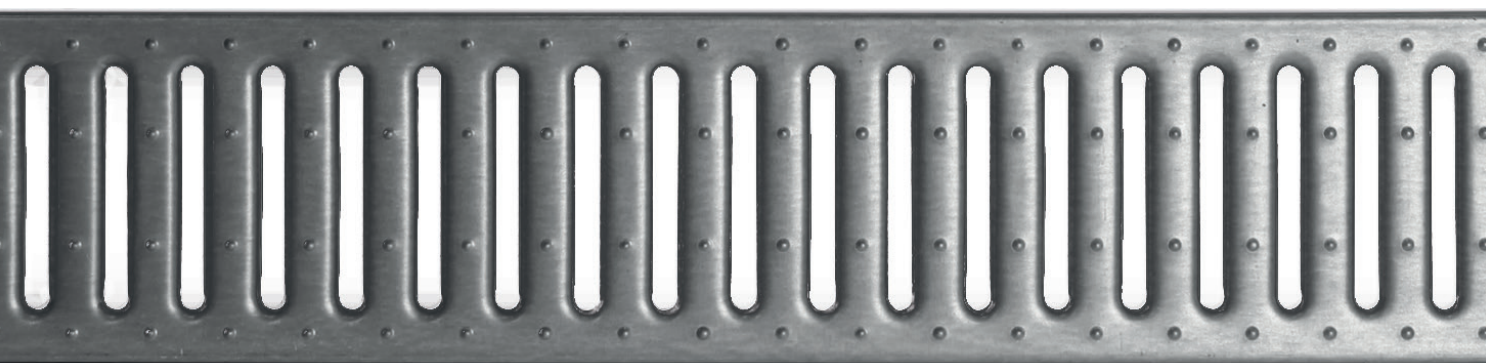
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SELF ECO 100

Self Eco 100 drainage channel stands out as an exceptional choice for various drainage needs, thanks to its unique set of benefits.

One of its most prominent advantages is its compact size, making it the smallest of the self-channels available on the market. This compact design not only enhances its aesthetic appeal but also ensures that it can be seamlessly integrated into various architectural and landscape designs.

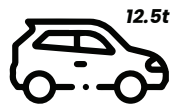
Additionally, the Self Eco 100 exhibits remarkable resistance to temperature changes, making it a durable and reliable choice for both hot and cold climates. The combination of a small form factor and exceptional temperature resilience makes the Polycon Self Eco 100 is an ideal solution for efficient and long-lasting drainage in a wide range of applications.



Load Class



A15
1.5 tonnes



B125
12.5 tonnes

Applications

- Driveways
- Patios
- Garden paths
- Houses
- Playgrounds
- Pool areas
- Pedestrian areas
- Garages

SELF ECO 100

VIRTUAL LANDSCAPE

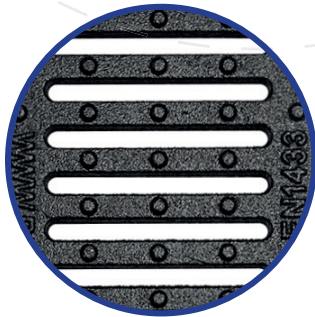
Not sure what you are looking for?

Check out our Self Eco 100 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 100 – Overview



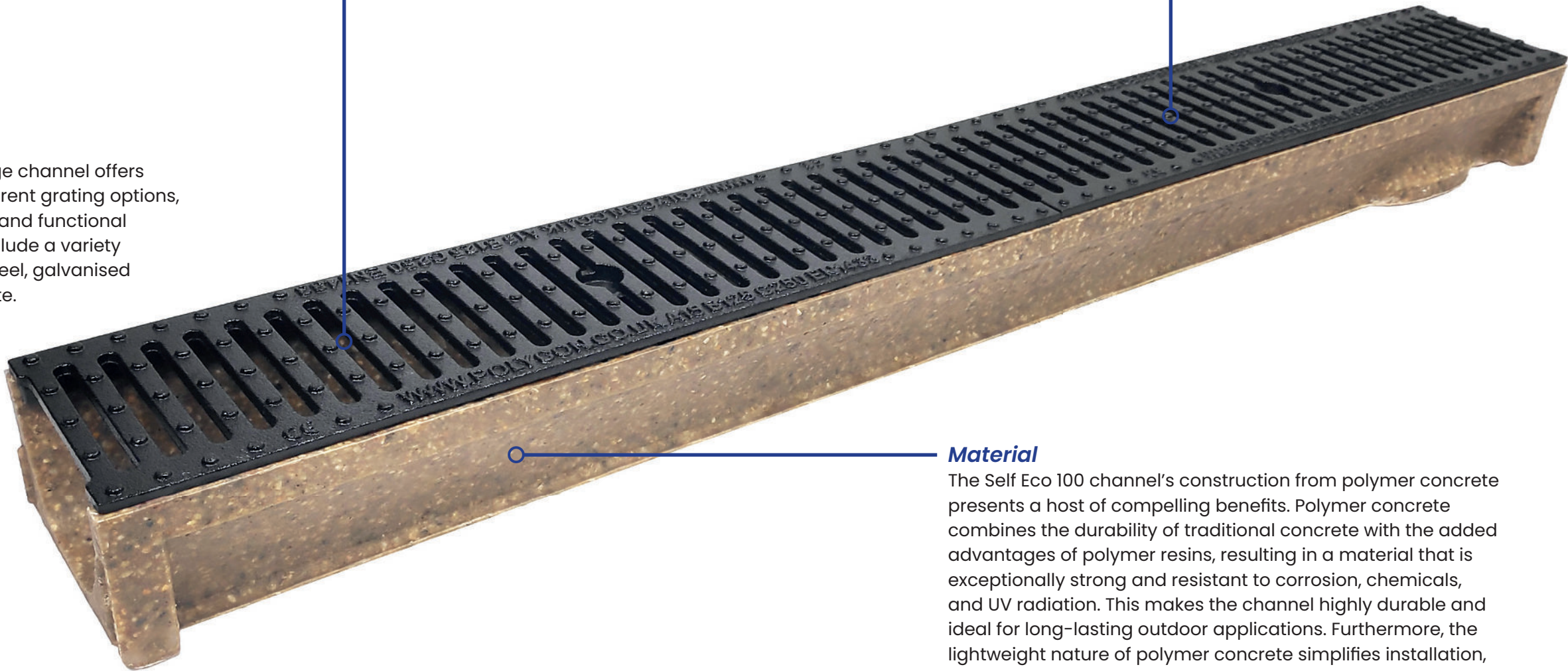
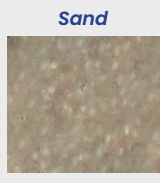
Grating Options

The Polycon Self Eco 100 drainage channel offers an impressive array of nine different grating options, catering to diverse preferences and functional requirements. These choices include a variety of materials such as stainless steel, galvanised steel, ductile iron, and composite.



SAFEHEEL

Colour Options



Material

The Self Eco 100 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



1.5t

A15



12.5t

B125

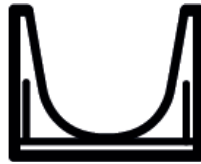
Depth Options



60mm



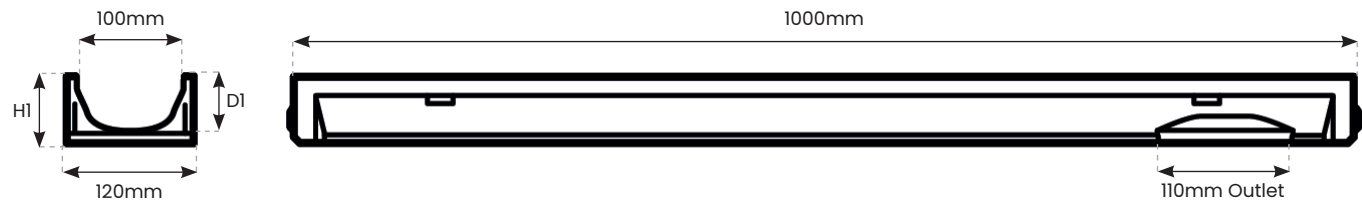
80mm



100mm

SELF ECO 100 – 60mm depth

The Self Eco 100 is a high-performance drainage channel made from polymer concrete. This channel is the perfect development of channel drainage used for urban and domestic areas.



Accessories

Self Eco 100 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 Traps are used to prevent foul or unpleasant odours from sewage or wastewater from escaping through the drainage channel and into the surrounding environment.

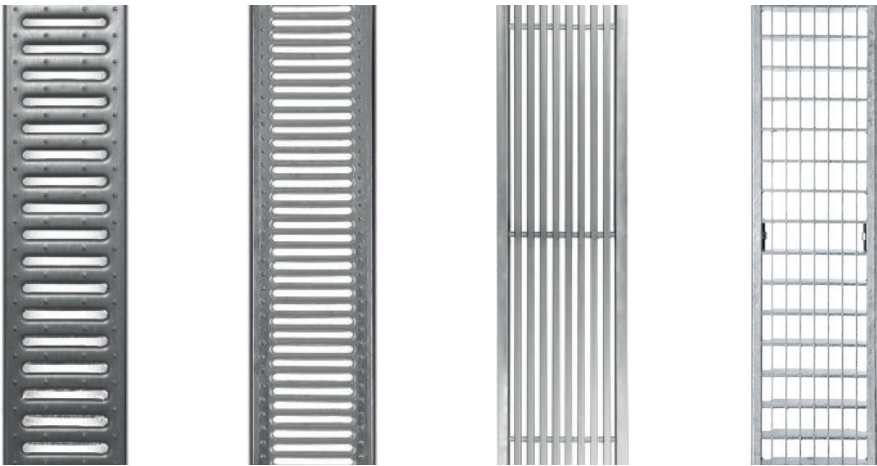
110mm Spigot allows you to connect your channel outlet to a pipe. A Spigot typically refers to a male end of a pipe or fitting that is designed to fit into a corresponding female socket or connection.



Accessories- Specifications

Reference	Description	Length	Height (H)	Overall Width	Weight (KG)	Outlet
SELF.ECO.100.SU	Self Eco 100 Sump Unit	500mm	400mm	120mm	14.8kg	110mm
SELF.ECO.100.S110	Self Eco 100 110 Spigot	110mm	100mm	110mm	0.8kg	110mm
SELF.ECO.100.FT	Self Eco 100 Foul Trap	30mm	150mm	110mm	0.6kg	-
SELF.ECO.100.ECO	Self Eco 100 End Cap Outlet	22mm	160mm	120mm	0.7kg	110mm
SELF.ECO.100.EC	Self Eco 100 End Cap	25mm	100mm	120mm	0.4kg	-

Grating Options – 60mm



Galvanised Slotted Grating (A15) Galvanised SafeHeel Slotted Grating (A15) Longitudinal Steel Grating (A15) Mesh Steel Grating (B125)



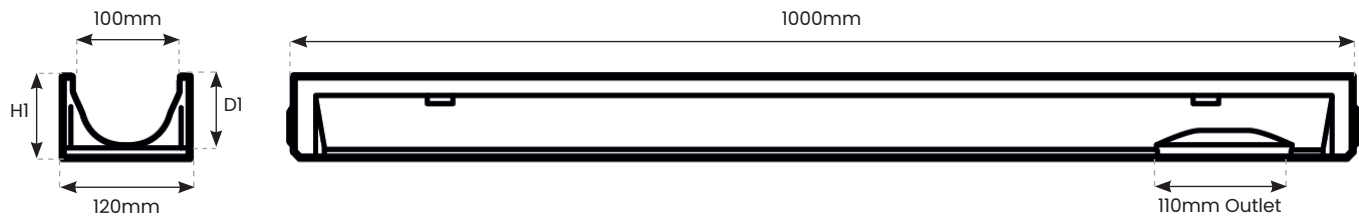
Plastic OvalGrip Grating (B125) Ductile Iron OvalGrip Grating (B125) KTL Frosted Ductile Iron Slotted (B125)

Grating - Specifications

Reference	Description	Length	Internal Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
SELF.100.GSG	Self Eco 100.60 + Galvanised Slotted Grating	1000mm	100mm	120mm	60mm	40mm	A	No
SELF.100.GSSG	Self Eco 100.60 + Galvanised SafeHeel Slotted Grating	1000mm	100mm	120mm	60mm	40mm	A	Yes
SELF.100.LSG	Self Eco 100.60 + Longitudinal Steel Grating	1000mm	100mm	120mm	60mm	40mm	A	No
SELF.100.MSG	Self Eco 100.60 + Mesh Steel Grating	1000mm	100mm	120mm	60mm	40mm	A/B	No
SELF.100.POG	Self Eco 100.60 + Plastic OvalGrip Grating	1000mm	100mm	120mm	60mm	40mm	A/B	No
SELF.100.DIOG	Self Eco 100.60 + Ductile Iron OvalGrip Grating	1000mm	100mm	120mm	60mm	40mm	A/B	No
SELF.100.D18SG	Self Eco 100.60 + Ductile Iron 8mm Slotted Grating	1000mm	100mm	120mm	60mm	40mm	A/B	Yes

SELF ECO 100 – 80mm depth

The Self Eco 100 is a high-performance drainage channel made from polymer concrete. This channel is the perfect development of channel drainage used for urban and domestic areas.



Accessories

Self Eco 100 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 Traps are used to prevent foul or unpleasant odours from sewage or wastewater from escaping through the drainage channel and into the surrounding environment.

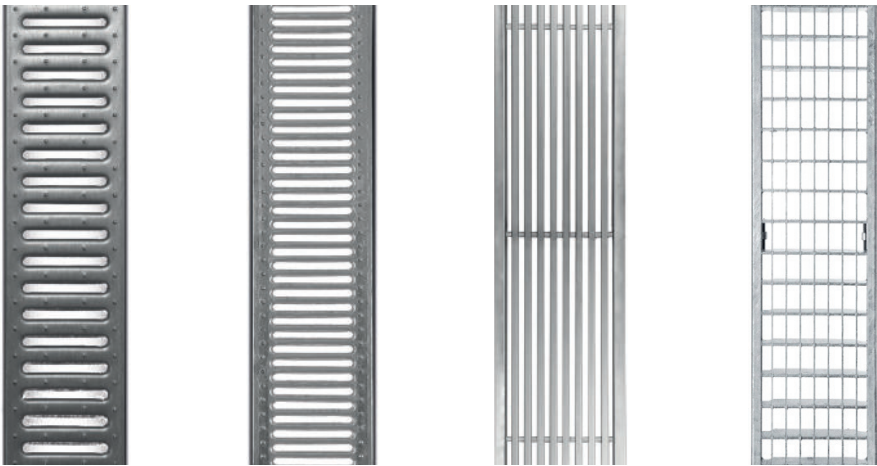
110mm Spigot allows you to connect your channel outlet to a pipe. A Spigot typically refers to a male end of a pipe or fitting that is designed to fit into a corresponding female socket or connection.



Accessories- Specifications

Reference	Description	Length	Height (H)	Overall Width	Weight (KG)	Outlet
SELF.ECO.100.SU	Self Eco 100 Sump Unit	500mm	400mm	120mm	14.8kg	110mm
SELF.ECO.100.S110	Self Eco 100 110 Spigot	110mm	100mm	110mm	0.8kg	110mm
SELF.ECO.100.FT	Self Eco 100 Foul Trap	30mm	150mm	110mm	0.6kg	-
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Grating Options – 80mm



Galvanised Slotted Grating (A15) Galvanised SafeHeel Slotted Grating (A15) Longitudinal Steel Grating (A15) Mesh Steel Grating (B125)



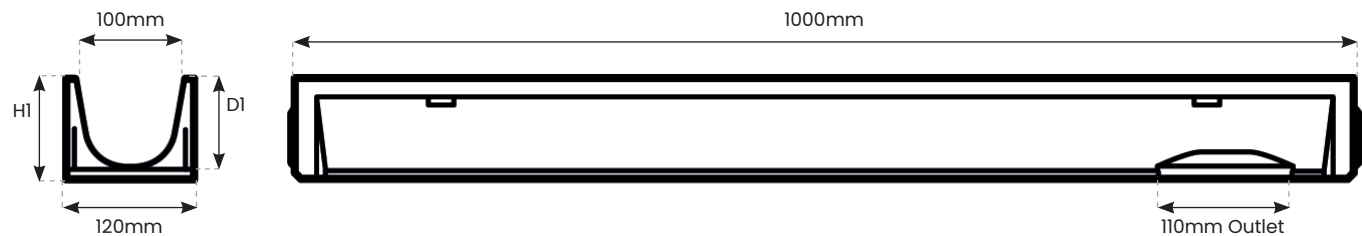
Plastic OvalGrip Grating (B125) Ductile Iron OvalGrip Grating (B125) KTL Frosted Ductile Iron Slotted (B125)

Grating - Specifications

Reference	Description	Length	Internal Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
SELF.100.GSG	Self Eco 100.80 + Galvanised Slotted Grating	1000mm	100mm	120mm	80mm	60mm	A	No
SELF.100.GSSG	Self Eco 100.80 + Galvanised SafeHeel Slotted Grating	1000mm	100mm	120mm	80mm	60mm	A	Yes
SELF.100.LSG	Self Eco 100.80 + Longitudinal Steel Grating	1000mm	100mm	120mm	80mm	60mm	A	No
SELF.100.MSG	Self Eco 100.80 + Mesh Steel Grating	1000mm	100mm	120mm	80mm	60mm	A/B	No
SELF.100.POG	Self Eco 100.80 + Plastic OvalGrip Grating	1000mm	100mm	120mm	80mm	60mm	A/B	No
SELF.100.DIOG	Self Eco 100.80 + Ductile Iron OvalGrip Grating	1000mm	100mm	120mm	80mm	60mm	A/B	No
SELF.100.D18SG	Self Eco 100.80 + Ductile Iron 8mm Slotted Grating	1000mm	100mm	120mm	80mm	60mm	A/B	Yes

SELF ECO 100 – 100mm depth

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Accessories

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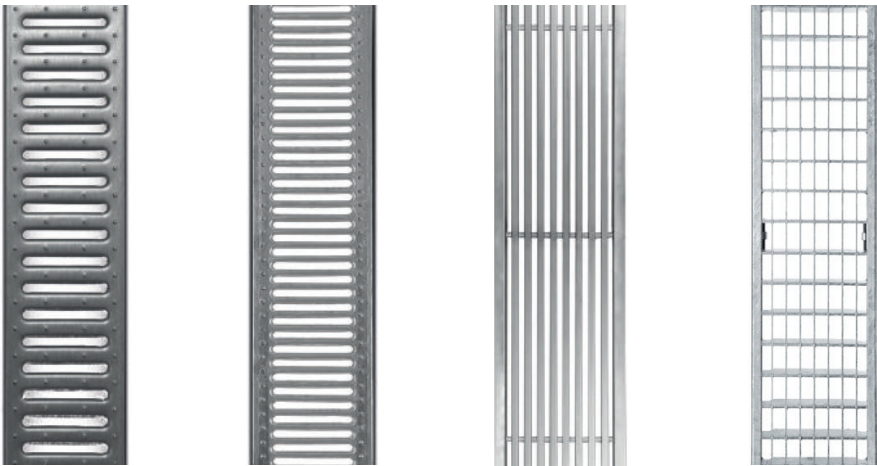
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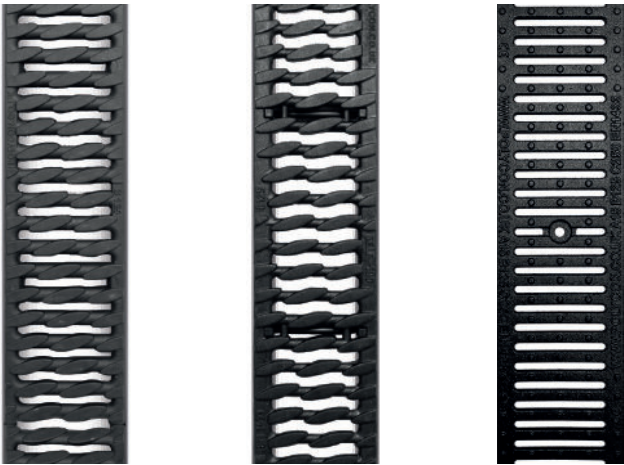
Accessories- Specifications

Reference	Description	Length	Height (H)	Overall Width	Weight (KG)	Outlet
SELF.ECO.100.SU	Self Eco 100 Sump Unit	500mm	400mm	120mm	14.8kg	110mm
SELF.ECO.100.S110	Self Eco 100 110 Spigot	110mm	100mm	110mm	0.8kg	110mm
SELF.ECO.100.FT	Self Eco 100 Foul Trap	30mm	150mm	110mm	0.6kg	-
SELF.ECO.100.ECO	Self Eco 100 End Cap Outlet	22mm	160mm	120mm	0.7kg	110mm
SELF.ECO.100.EC	Self Eco 100 End Cap	25mm	100mm	120mm	0.4kg	-

Grating Options – 100mm



Galvanised Slotted Grating (A15) Galvanised SafeHeel Slotted Grating (A15) Longitudinal Steel Grating (A15) Mesh Steel Grating (B125)



Plastic OvalGrip Grating (B125) Ductile Iron OvalGrip Grating (B125) KTL Frosted Ductile Iron Slotted (B125)

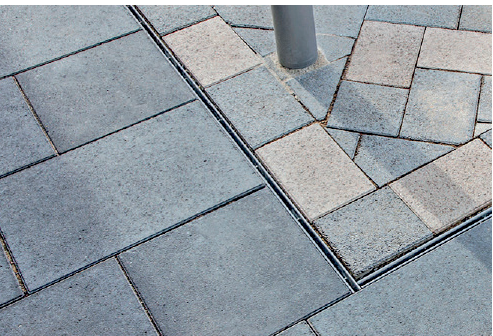
Grating - Specifications

Reference	Description	Length	Internal Width	Overall Width	Overall Depth(H1)	Internal Depth(D1)	Load Class	Safe Heel
SELF.100.GSG	Self Eco 100.100 + Galvanised Slotted Grating	1000mm	100mm	120mm	100mm	80mm	A	No
SELF.100.GSSG	Self Eco 100.100 + Galvanised SafeHeel Slotted Grating	1000mm	100mm	120mm	100mm	80mm	A	Yes
SELF.100.LSG	Self Eco 100.100 + Longitudinal Steel Grating	1000mm	100mm	120mm	100mm	80mm	A	No
SELF.100.MSG	Self Eco 100.100 + Mesh Steel Grating	1000mm	100mm	120mm	100mm	80mm	A/B	No
SELF.100.POG	Self Eco 100.100 + Plastic OvalGrip Grating	1000mm	100mm	120mm	100mm	80mm	A/B	No
SELF.100.DIOG	Self Eco 100.100 + Ductile Iron OvalGrip Grating	1000mm	100mm	120mm	100mm	80mm	A/B	No
SELF.100.DI8SG	Self Eco 100.100 + Ductile Iron 8mm Slotted Grating	1000mm	100mm	120mm	100mm	80mm	A/B	Yes

SELF ECO 100 – 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.

Access trays are typically used for maintenance and inspection purposes, they are installed at strategic points along the channel, often at intervals where they can be easily reached for cleaning, inspection, or repairs.



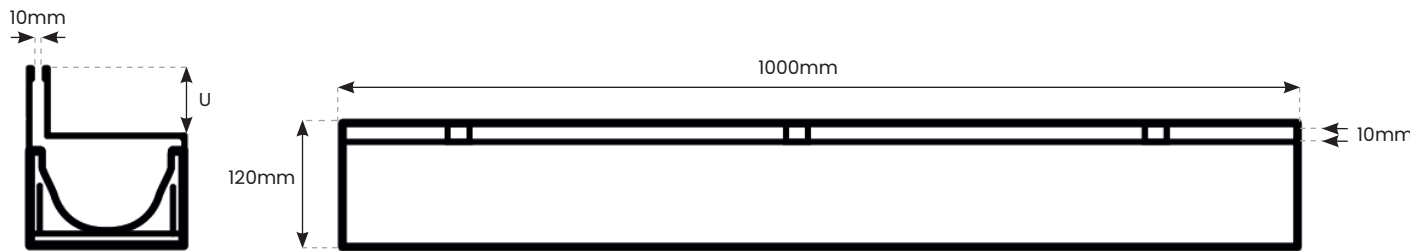
Paveslot Options



Paveslot

Access Tray

Diagram – Offset Paveslot



Grating – Specifications

Reference	Description	Length (mm)	Slot Width	Overall Width	Load Class	Upstand (u)
SELF.100.GOP	Galvanised Offset Paveslot	1000	10	120	B125	60mm
SELF.100.SSOP	Stainless Steel Offset Paveslot	1000	10	120	B125	60mm

Access Trays – Specifications

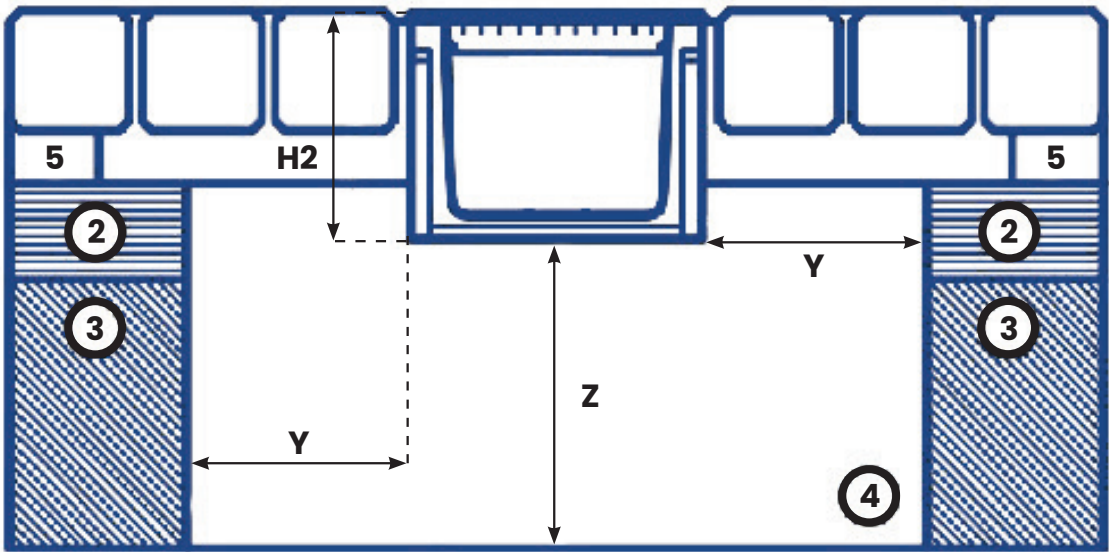
Reference	Description	Length	Height (H)	Overall Width	Weight (KG)
SELF.ECO.100.ATG	Self Eco 100 Access Tray – Galvanised	500mm	105mm	120mm	6.5kg
SELF.ECO.100.ATSS	Self Eco 100 Access Tray – Stainless Steel	500mm	105mm	120mm	6.5kg

Installation Guide

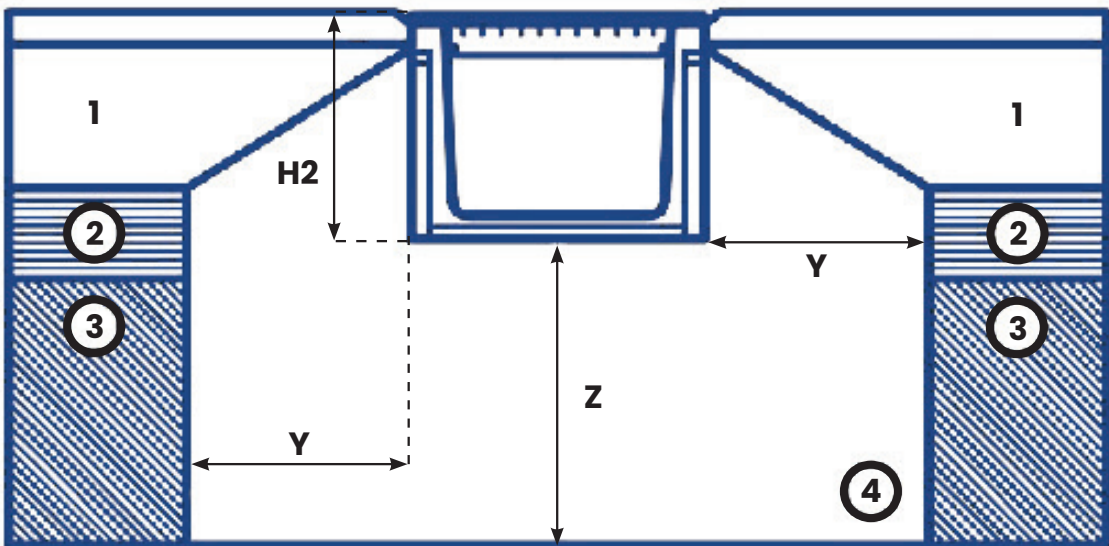
Ground conditions must be suitable and all dimensions shown are the minimum requirement. Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team by emailing us at sales@polycon.co.uk or by calling us on 0151 424 9747.

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

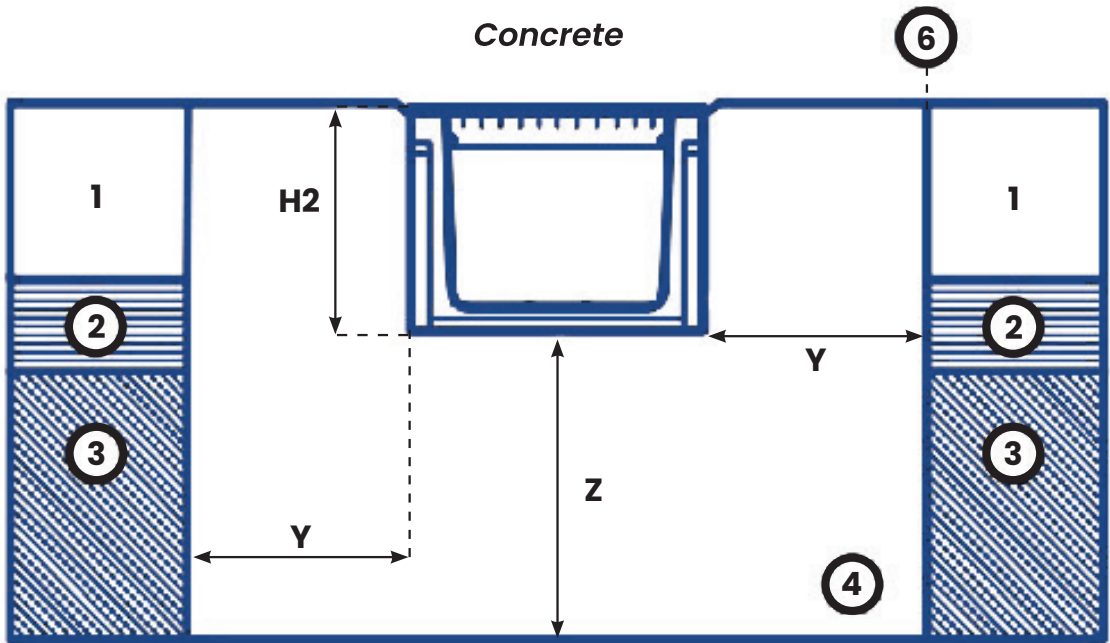
Block Paving



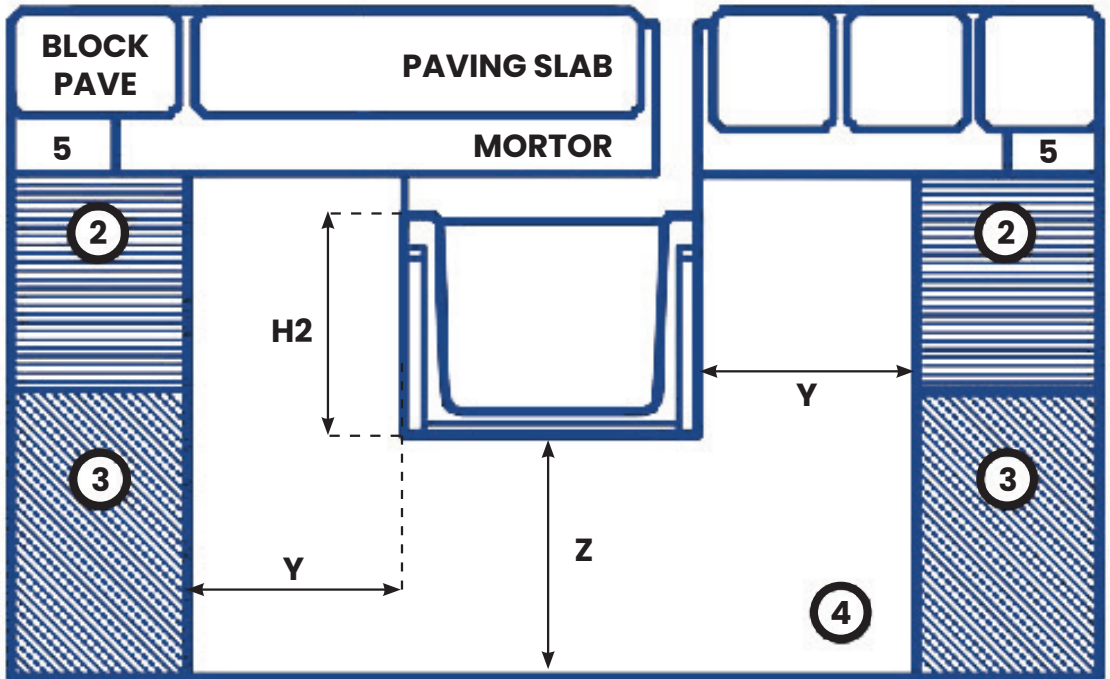
Tarmac



Concrete



Paveslot



Load Class	A15	B125
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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sales@polycon.co.uk**

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