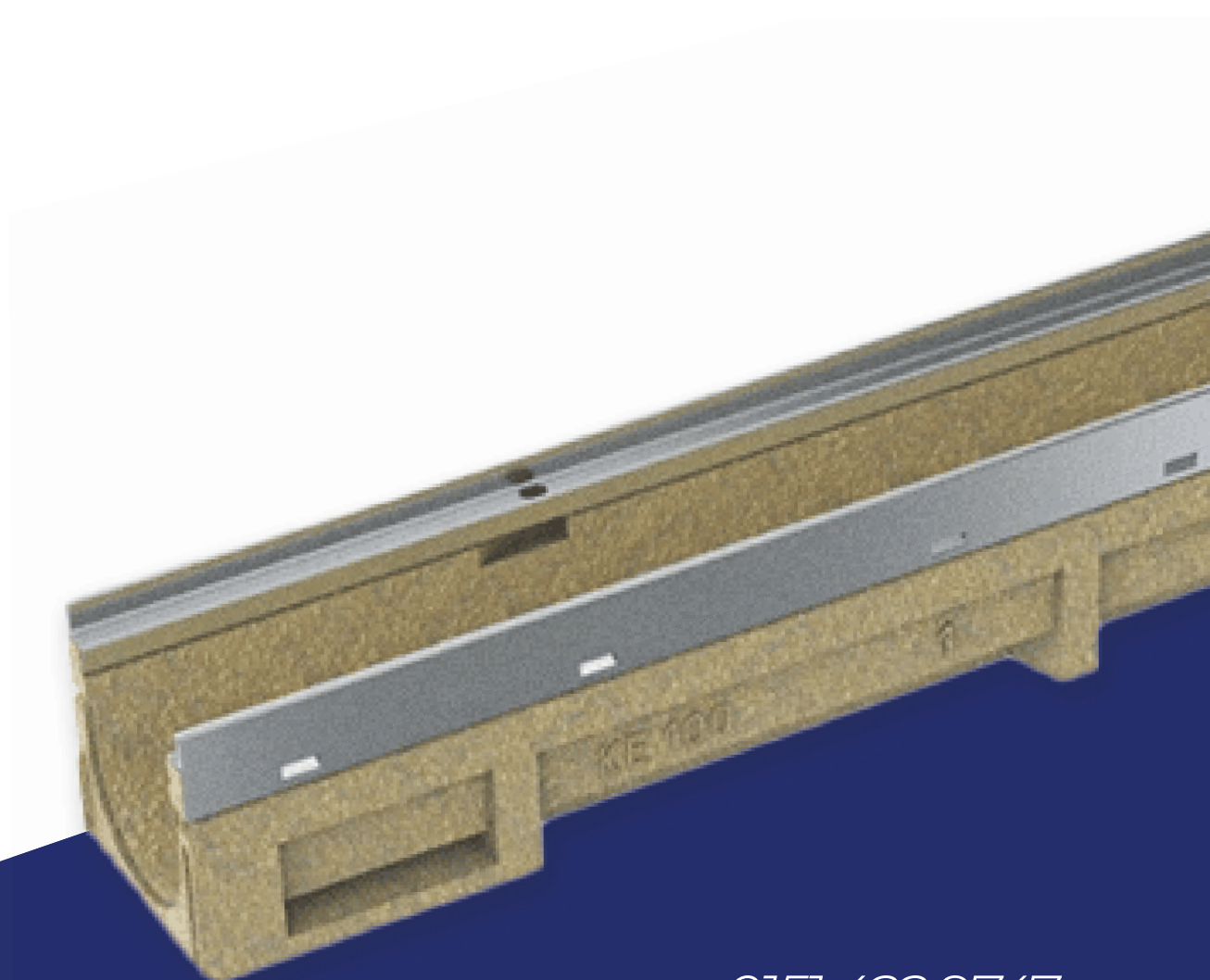


KE 100

Specification Brochure



0151 422 9747
www.polycon.co.uk

KE 100

+ Reinforced Galvanised Steel Edge Rail

KE 100 Overview

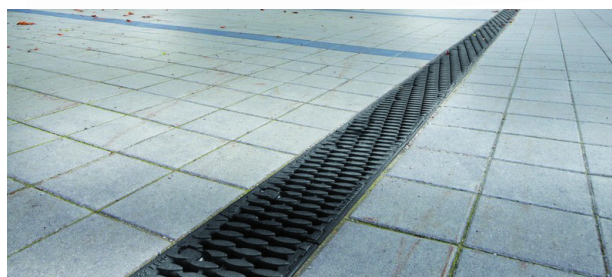
A heavy duty drainage channel compatible with load classes E600 (60 Tonne) that bolsters a galvanised edge rail, creating a tough and reliable system perfect for the vast majority of applications in the commercial sector.

Stainless Or Galvanised Steel Reinforced Edge Rail

Stainless or Galvanised Steel Edge Rails are integrated into the channel profile. They are used to protect the channel flank from any damage and wear and tear. The Galvanised edge rail also enforces the stability of the gratings, highlighting why this channel is perfect for areas experiencing high load traffic.

Applications

- Driveways
- Car parks
- Farms
- Commercial & civil areas



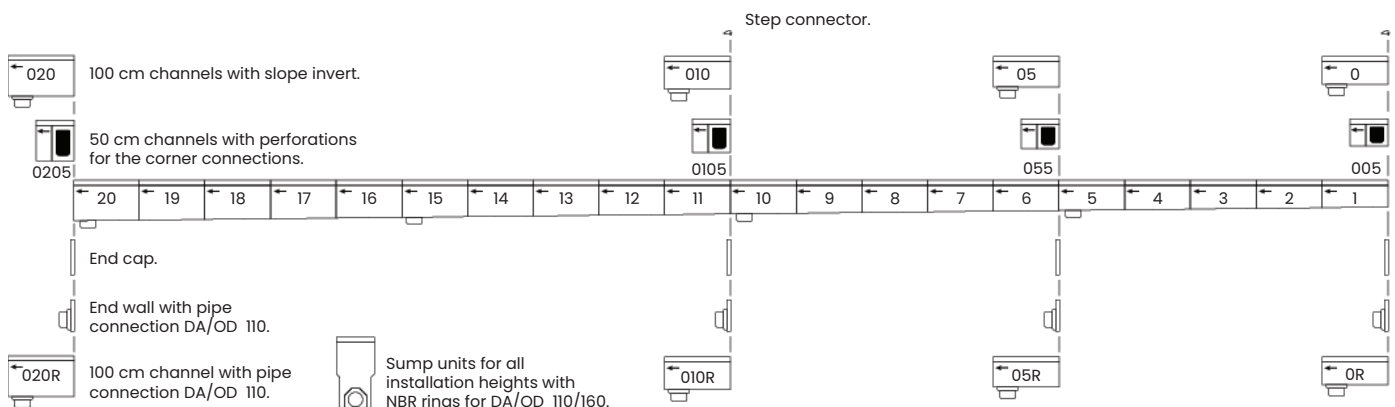
KE 100 Sloped, Stepped, Level

Sloped, Stepped, Level

There are 3 types of drainage channels, the purpose for all 3 of these channels are to provide a pathway for the removal of unwanted surface water in a selected area. The specifics of which channel should be used is dependent on multiple factors such as the terrain, flow rate and other environment conditions.

Sloped Invert

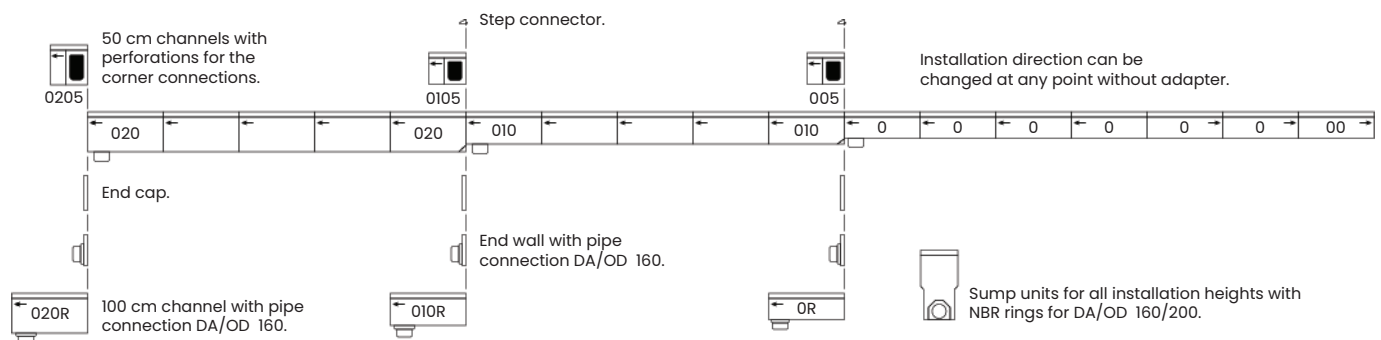
A channel run with sloped invert has a consistent downward gradient along their length. The slope is designed to provide a continuous downward flow of water, allowing gravity to assist in the drainage of water. When using a sloped channel it is carefully calculated to ensure that the water will flow at an appropriate velocity to prevent sedimentation or excessive erosion.



KE 100 Sloped, Stepped, Level

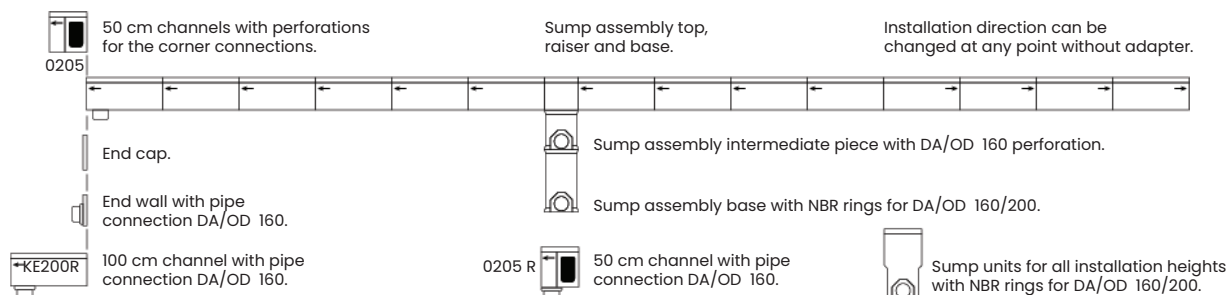
Stepped Invert

Stepped Drainage Channels are designed with a series of steps or drops along the run of the channel. These steps create a cascading effect, which helps to control the velocity of the water and prevent erosion.



Level Invert

Level inverts are usually used in areas with relatively low slopes or insignificant water rate. They allow water to flow smoothly and evenly without the need for any significant changes in elevation. Channels with level invert are often used in urban areas, where the goal is to transport water efficiently and prevent flooding.



KE 100

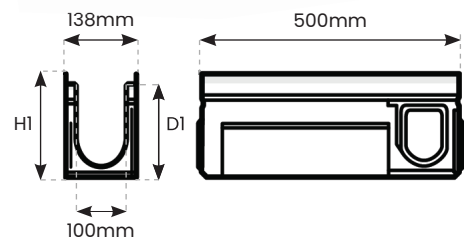
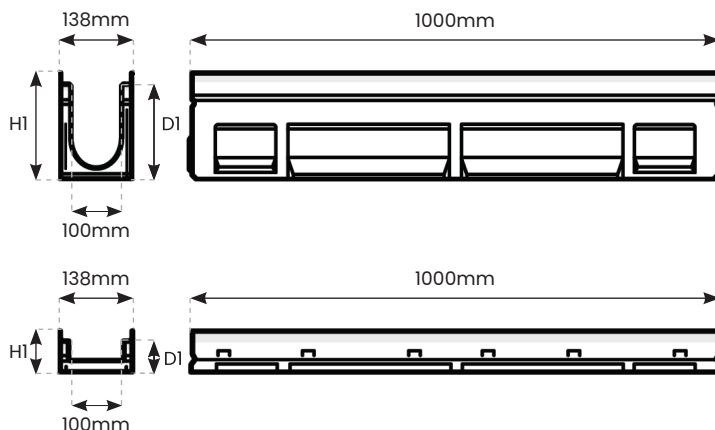
Galvanised Steel / Stainless Steel Edge Rail

The KE 100 drainage channel has been designed to withstand load classes A15-D400, perfect for vehicular and pedestrianised areas. This channel corresponds to multiple different gratings, highlighting specific load classes depending on their use.

This system is also available in **Black Cataphoretic** dip coating.



Measurements



CHANNEL PROPERTIES

Polymere concrete:	Polyester resin-based with mineral aggregates, additives.
Compressive strength:	> 90 N/mm ²
Bending tensile strength:	> 22 N/mm ²
Modulus of elasticity:	ca. 25 kN/mm ²
Density:	2.1 - 2.3 g/dm ³
Heat resistance:	100°C (permenant loading)
Frost resistance:	-50°C
Water penetration depth:	0mm
Water absorption	0.05%
Edge protection:	Galvanised steel, stainless steel, profile thickness 6mm or cataphoretic black.
Channel cover:	Galvanised steel, V2A stainless steel, GJS cast-iron, PA plastic.

KE 100 – Channel Types

Galvanised Steel / Stainless Steel Edge Rail

Article no.	Designation	Slope	Length	Overall Width	Internal Width	Overall Depth(H1)	Internal Depth(D1)	Weight
KE.100.0	KE – 100 Channel No. 0*	0%	1000mm	138mm	100mm	150mm	130mm	17.5kg
KE.100.0R	KE – 100 Channel No. 0R***	0%	1000mm	138mm	100mm	150mm	130mm	17.5kg
KE.100.005	KE – 100 Channel No. 005**/*	0%	500mm	138mm	100mm	150mm	130mm	9.5kg
KE.100.1	KE – 100 Channel No. 1	0.5%	1000mm	138mm	100mm	155mm	135mm	17.5kg
KE.100.2	KE – 100 Channel No. 2	0.5%	1000mm	138mm	100mm	160mm	140mm	17.5kg
KE.100.3	KE – 100 Channel No. 3	0.5%	1000mm	138mm	100mm	165mm	145mm	18kg
KE.100.4	KE – 100 Channel No. 4	0.5%	1000mm	138mm	100mm	170mm	150mm	18kg
KE.100.5	KE – 100 Channel No. 5*	0.5%	1000mm	138mm	100mm	175mm	155mm	18.5kg
KE.100.05	KE – 100 Channel No. 05*	0%	1000mm	138mm	100mm	175mm	155mm	18.5kg
KE.100.055	KE – 100 Channel No. 05R***	0%	1000mm	138mm	100mm	175mm	155mm	18.5kg
KE.100.6	KE – 100 Channel No. 055**/*	0%	500mm	138mm	100mm	175mm	155mm	9.5kg
KE.100.6	KE – 100 Channel No. 6	0.5%	1000mm	138mm	100mm	180mm	160mm	19kg
KE.100.7	KE – 100 Channel No. 7	0.5%	1000mm	138mm	100mm	185mm	165mm	19.5kg
KE.100.8	KE – 100 Channel No. 8	0.5%	1000mm	138mm	100mm	190mm	170mm	19.5kg
KE.100.9	KE – 100 Channel No. 9	0.5%	1000mm	138mm	100mm	195mm	175mm	20kg
KE.100.10	KE – 100 Channel No. 10*	0.5%	1000mm	138mm	100mm	200mm	180mm	21kg
KE.100.010	KE – 100 Channel No. 010*	0%	1000mm	138mm	100mm	200mm	180mm	21kg
KE.100.010R	KE – 100 Channel No. 010R*	0%	1000mm	138mm	100mm	200mm	180mm	21kg
KE.100.0105	KE – 100 Channel No. 0105**/*	0%	500mm	138mm	100mm	200mm	180mm	10.5kg
KE.100.11	KE – 100 Channel No. 11	0.5%	1000mm	138mm	100mm	205mm	185mm	20.5kg
KE.100.12	KE – 100 Channel No. 12	0.5%	1000mm	138mm	100mm	210mm	190mm	21kg
KE.100.13	KE – 100 Channel No. 13	0.5%	1000mm	138mm	100mm	215mm	195mm	21.5kg
KE.100.14	KE – 100 Channel No. 14	0.5%	1000mm	138mm	100mm	215mm	195mm	22kg
KE.100.15	KE – 100 Channel No. 15*	0.5%	1000mm	138mm	100mm	220mm	200mm	22.5kg
KE.100.16	KE – 100 Channel No. 16	0.5%	1000mm	138mm	100mm	225mm	205mm	23kg
KE.100.17	KE – 100 Channel No. 17	0.5%	1000mm	138mm	100mm	230mm	210mm	23kg
KE.100.18	KE – 100 Channel No. 18	0.5%	1000mm	138mm	100mm	235mm	215mm	23.5kg
KE.100.19	KE – 100 Channel No. 19	0.5%	1000mm	138mm	100mm	240mm	220mm	24kg
KE.100.20	KE – 100 Channel No. 20*	0.5%	1000mm	138mm	100mm	245mm	225mm	24.5kg
KE.100.020	KE – 100 Channel No. 020*	0%	1000mm	138mm	100mm	250mm	230mm	25.5kg
KE.100.020R	KE – 100 Channel No. 020R*	0%	1000mm	138mm	100mm	250mm	230mm	25.5kg
KE.100.0205	KE – 100 Channel No. 0205**/*	0%	500mm	138mm	100mm	250mm	230mm	11.2kg
KE.100.060	KE – 100 Channel No. 060*	0%	1000mm	138mm	100mm	60mm	40mm	13.1kg
KE.100.060R	KE – 100 Channel No. 060R***	0%	1000mm	138mm	100mm	60mm	40mm	13.1kg
KE.100.080	KE – 100 Channel No. 080*	0%	1000mm	138mm	100mm	80mm	60mm	13.3kg
KE.100.080R	KE – 100 Channel No. 080R*	0%	1000mm	138mm	100mm	80mm	60mm	13.3kg
KE.100.0100	KE – 100 Channel No. 0100*	0%	1000mm	138mm	100mm	100mm	80mm	14.4kg
KE.100.0100R	KE – 100 Channel No. 0100R*	0%	1000mm	138mm	100mm	100mm	80mm	14.4kg

* Channel with mouldings for vertical outlet DA/OD 110.

** Channel with sideways perforations for the connection of t-junctions, elbow joints and cross- over joints and vertical outlet.

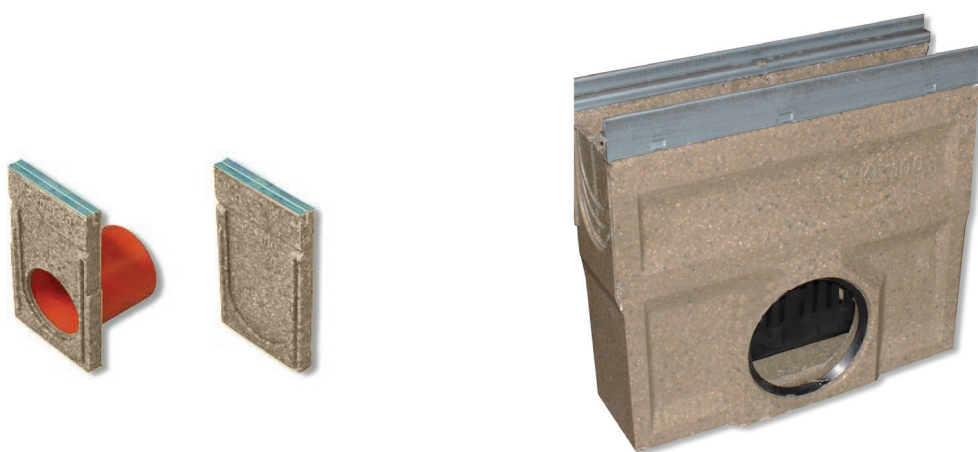
*** Channel with vertical pipe socket DA/OD 110.

KE 100 Sump & Accessories

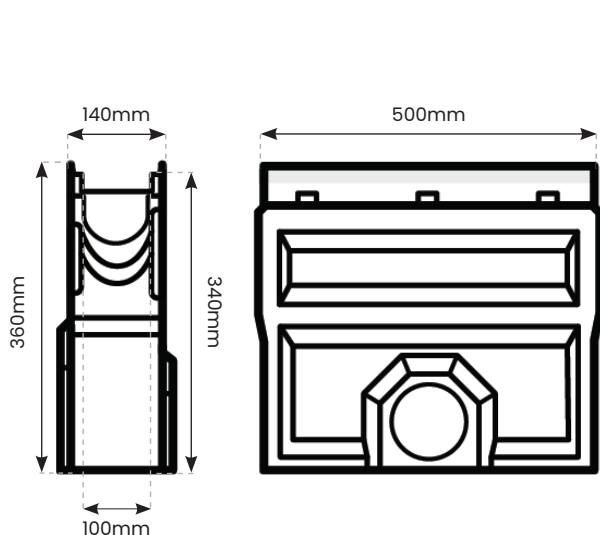
The KE 100 is compatible with a full range of accessories including a sump unit with galvanised silt bucket, end caps, and end cap outlets.

Both the sump unit and end cap outlet allow for a 110mm pipe connection.

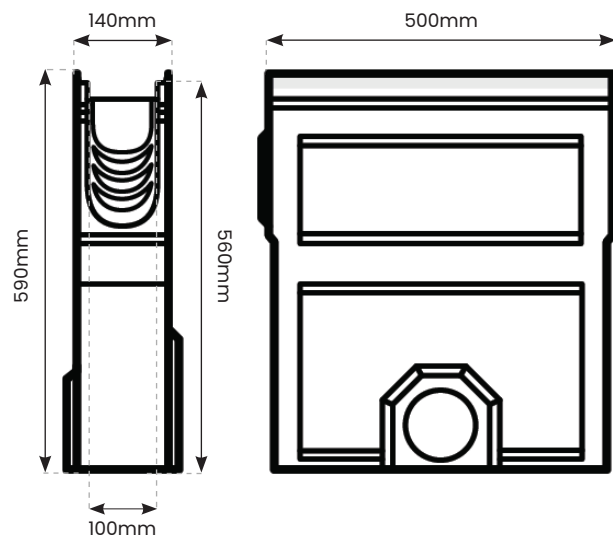
This system is also available in **Black Cataphoretic** dip coating.



Measurements



KE SUMP



KE DEEP SUMP

KE 100 Accessories

Article no.	Designation	Length	Width	Height	Weight
KE.100.SG	KE 100 Sump unit with galvanised mud bucket	500mm	140mm	585mm	38.5kg
KE.100.S.10	KE 100 Sump unit low height for channels up to No.10	500mm	140mm	450mm	21.8kg
KE.100.S.DN110	KE 100 Sump unit low height with special DN 110 connection & PE bucket	500mm	140mm	450mm	21.9kg
KE.100.P.110	Pipe socket DA/OD 110				0.2kg
KE.100.P.150	Pipe socket DA/OD 150				0.6kg
KE.100.CE.0205	KE 100 Closed end cap for channel No. 0 - 0205				1.6kg
KE.100.CE.060	KE 100 Closed end cap for channel No. 060				1.9kg
KE.100.CE.080	KE 100 Closed end cap for channel No. 080				1.0kg
KE.100.CE.0100	KE 100 Closed end cap for No. 0100				1.2kg
KE.100.EP.0	KE 100 end cap + pipe socket DA/OD 110 for channel No. 0				1.0kg
KE.100.EP.5	KE 100 end cap + pipe socket DA/OD 110 for channel No. 5, 05				1.1kg
KE.100.EP.10	KE 100 end cap + pipe socket DA/OD 110 for channel No.10, 010				1.2kg
KE.100.EP.20	KE 100 end cap + pipe socket DA/OD 110 for channel No. 20, 020				1.4kg

Accessories available in both Galvanised Steel or Stainless Steel.

KE 100 – Gratings

*Slotted Steel
Grating*



*Perforated
Steel Grating*



*Mesh Steel
Grating*



*Composite
Slotted Grating*



*Composit
Mesh Grating*



*Composite
Oval Grating*



*Ductile Iron
Slotted Grating*



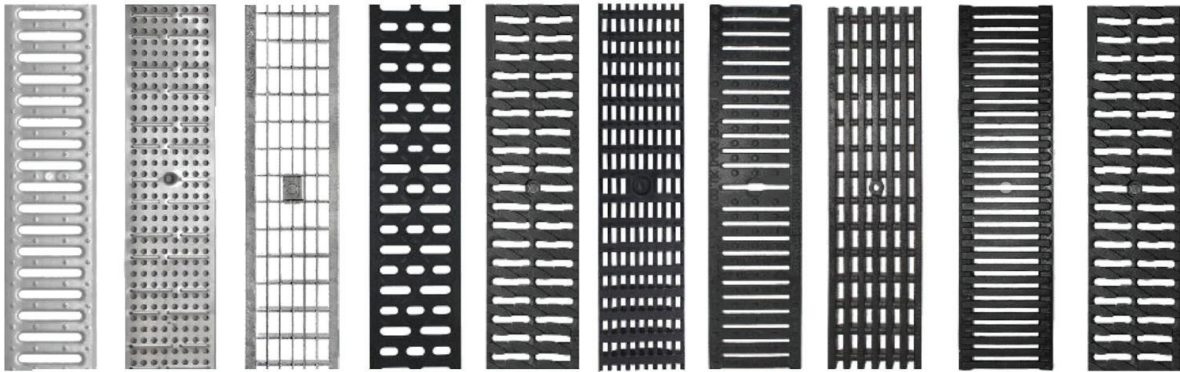
*Ductile Iron
Longitudinal
Grating*



*Ductile Iron
Oval Grating*



KE 100 – Gratings



	Slotted Steel Grating	Slotted Steel Perforated Grating	Mesh Steel Grating	Composite Slotted Grating	Composite Oval Grating	Composite Mesh Grating	Ductile Iron Slotted Grating	Ductile Iron Longitudinal Grating	Ductile Iron Narrow Slotted Grating	Ductile Iron Oval Grating
A 15	•	•		•						
B 125			•			•				
C 250	•	•	•	•	•				•	•
D 400							•	•	•	•
E 600										•
Galvanised Steel	•	•	•							
Stainless Steel	•	•	•							
Ductile Iron							•	•	•	•
Composite				•	•	•				
Length (mm)	500, 1000	500, 1000	500, 1000	500, 1000	500, 1000	500	500, 1000	500, 1000	500, 1000	500, 1000

Gratings *cl. A15* with Bolt & Bar fastening

Article no.	Designation	Length	Width	Inlet Ø	Weight
		cm	cm	cm ² /m	kg
GR.100.SG.A	Slotted grating, galvanised, steel, SW 6 mm	100	12.3	280	2.4
GR.100.SG.A	Slotted grating, galvanised steel, SW 6 mm	50	12.3	280	1.2
GR.100.SS.A	Slotted steel grating, stainless steel, SW 6 mm	100	12.3	280	2.6
GR.100.SS.A	Slotted steel grating, stainless steel, SW 6 mm	50	12.3	280	1.4
GR.100.PG.A	Perforated grating, galvanised steel, SW 11 mm	50	12.3	719	1.9
GR.100.PS.A	Perforated grating, stainless steel, SW 11 mm	50	12.3	719	1.9
GR.100.SC.A	Slotted grating, composite SW 8 mm	50	12.3	719	1.9

KE 100 – Gratings

Gratings *cl. B125* with **Bolt & Bar** fastening

Article no.	Designation	Length	Width	Inlet Ø	Weight
		cm	cm	cm ² /m	kg
GR.100.MG.B	Mesh grating, galvanised, MW 30 x 14 mm	100	12.3	870	3
GR.100.MG.B	Mesh grating, galvanised, MW 30 x 14 mm	50	12.3	870	1.5
GR.100.MS.B	Mesh grating, stainless steel, MW 30 x 14 mm	100	12.3	684	3.1
GR.100.MS.B	Mesh grating, stainless steel, MW 30 x 14 mm	50	12.3	684	1.5
GR.100.MC.B	Mesh grating, composite, MW 20 x 10 mm	50	12.3	684	3

Gratings *cl. C250* with **Bolt & Bar** fastening

Article no.	Designation	Length	Width	Inlet Ø	Weight
		cm	cm	cm ² /m	kg
GR.100.SG.C	Slotted steel grating, Galvanised steel, SW10 mm	100	12.3	280	5.0
GR.100.SG.C	Slotted steel grating, Galvanised steel, SW10 mm	50	12.3	280	2.5
GR.100.SS.C	Slotted steel grating, Stainless steel, SW10 mm	100	12.3	280	5.0
GR.100.SS.C	Slotted steel grating, Stainless steel, SW10 mm	50	12.3	280	2.5
GR.100.PG.C	Perforated grating, Galvanised steel	100	12.3	178	4.6
GR.100.PG.C	Perforated grating, Galvanised steel	50	12.3	178	2.3
GR.100.PS.C	Perforated grating, Stainless steel	100	12.3	178	4.6
GR.100.PS.C	Perforated grating, Stainless steel	50	12.3	178	2.3
GR.100.MG.C	Mesh grating, Galvanised steel, MW 30 x 10 mm	100	12.3	770	4.4
GR.100.MG.C	Mesh grating, Galvanised steel, MW 30 x 10 mm	50	12.3	770	2.2
GR.100.MS.C	Mesh grating, Stainless steel, MW 20 x 14 mm	100	12.3	770	4.2
GR.100.MS.C	Mesh grating, Stainless steel, MW 20 x 14 mm	50	12.3	770	2.1
GR.100.SC.C	Slotted grating, Composite, GJL, SW 8 mm	100	12.3	350	10.4
GR.100.SC.C	Slotted grating, Composite, GJL, SW 8 mm	50	12.3	350	5.8
GR.100.OC.C	Oval Grating, Composite, SW 8 mm	100	12.3	420	2.6
GR.100.OC.C	Oval Grating, Composite, SW 8 mm	50	12.3	420	1.3
GR.100.OD.C	Oval Grating, Ductile iron, SW 8 mm	50	12.3	338	1.1

KE 100 – Gratings

Gratings *cl. D400'* with Bolt & Bar fastening

Article no.	Designation	Length	Width	Inlet Ø	Weight
		cm	cm	cm²/m	kg
GR.100.SDI.D	Slotted Grating, Ductile Iron, Epoxy Coated 8mm Slot	50	12.3	720	2.1
GR.100.LDI.D	Longitudinal–bar grating, Ductile Iron GJL, 10 mm Slot	50	12.3	420	2
GR.100.ODI.D	Slotted narrow slotted grating, Ductile Iron GJL, 6 mm Slot	50	12.3	530	4.5

Gratings *cl. E600'* with Bolt & Bar fastening

Article no.	Designation	Length	Width	Inlet Ø	Weight
		cm	cm	cm²/m	kg
GR.100.SDI.D	Slotted Oval grating, Ductile Iron GJL, SW 10 mm	50	12.3	420	5

Cover Gratings with Bolt & Bar fastening – Accessories

Article no.	Designation	Length	Width	Inlet Ø	Weight
		cm	cm	cm²/m	kg
BOLT.BAR	KE – 100 TwistLock fastening, single – Composite or Galvanised				

'Exception: Cross-road drainage of busy roads.

Bolt & Bar fastening

Bolt & Bar locking mechanism is used as a secure fastening for channels with a nominal width of 100mm. They allow for optimised performance with functional design and added security.

Advantages

- Assembly without special tools.
- No rattling, no loosening.
- No disruptive bars in the channel interior area.
- Maintenance-friendly.
- Resistant to corrosion.

PUT IN PLACE – ONE ROTATION – FIXED



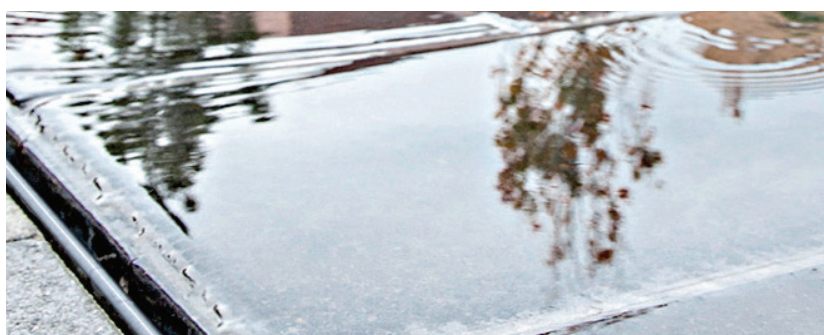
*Illustration shows galvanised bar.
Composite bar also used depending on grating.*

PaveSlot

Our Paveslots are specifically designed for intergration in high quality natural stone and paving surfaces. The discrete inlet slot enables effecient drainage without compromising the ground design.

We offer both single & twin slotted paveslots as well as access trays for maintenance purposes.

Available in both **Glavanised Steel** and **Stainless Steel**.

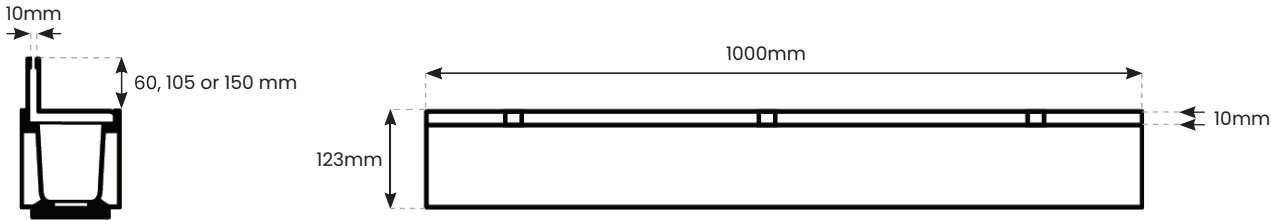


KE 100
PaveSlot Specification

Offset Single Galvanised or Stainless Steel PaveSlot
60, 105, or 150mm Upstand

The Offset Single slot Pavelot grating is available in both Galvanised or Stainless Steel. It has a width of 123mm, and is available in a 60, 105, or 150mm upstand.

Loading: C250, D400
Width: 123mm
Upstand: 60, 105 or 150mm



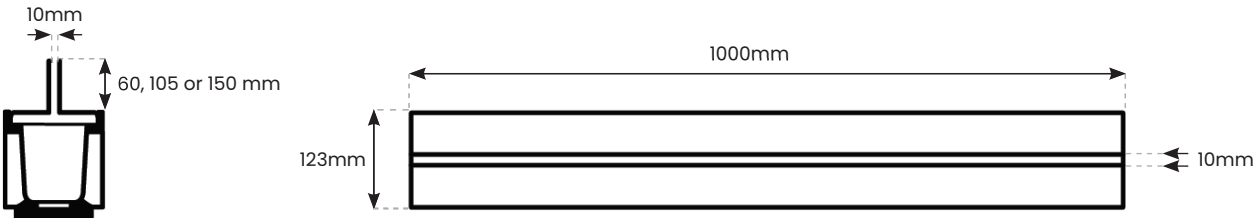
Article no.	Designation	Upstand Height (mm)	Length (mm)	Overall Width (mm)	Slot Width (mm)	Load Class	Weight (kg)
OS.I060.P.G	Galvanised Offset Single PaveSlot 60	60	500/1000	123	10	C, D	3.7
OS.I0105.P.G	Galvanised Offset Single PaveSlot 105	105	500/1000	123	10	C, D	6.5
OS.I0150.P.G	Galvanised Offset Single PaveSlot 150	150	500/1000	123	10	C, D	9.2
OS.I060.P.SS	Stainless Steel Offset Single PaveSlot 60	60	500/1000	123	10	C, D	3.4
OS.I0105.P.SS	Stainless Steel Offset Single PaveSlot 105	105	500/1000	123	10	C, D	6.7
OS.I0150.P.SS	Stainless Steel Offset Single PaveSlot 150	150	500/1000	123	10	C, D	9.4

KE 100
PaveSlot Specification

Centre Single Galvanised or Stainless Steel PaveSlot
60, 105, or 150mm Upstand

The Centre Single slot PaveSlot grating is available in both Galvanised or Stainless Steel. It has a width of 123mm, and is available in a 60, 105, or 150mm upstand.

Loading: C250, D400
Width: 123mm
Upstand: 60, 105 or 150mm



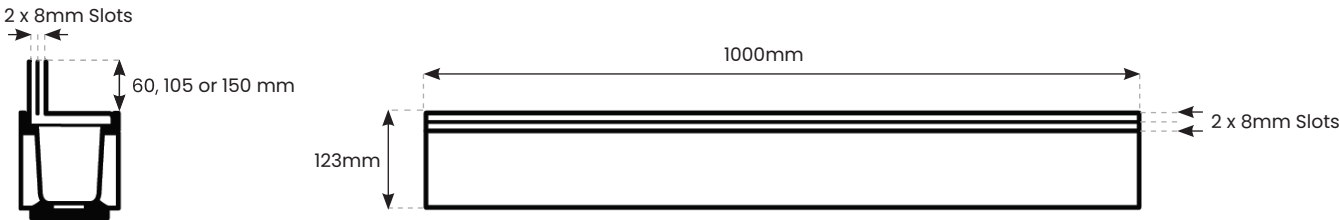
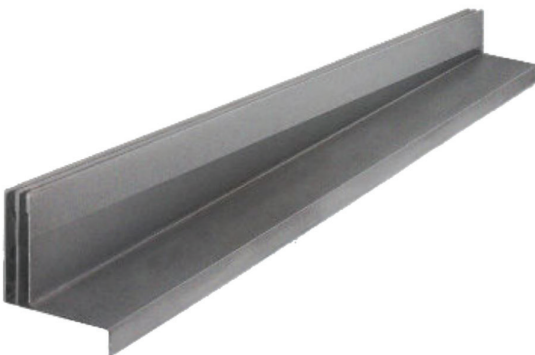
Article no.	Designation	Upstand Height (mm)	Length (mm)	Overall Width (mm)	Slot Width (mm)	Load Class	Weight (kg)
CS.1060.P.G	Galvanised Centre Single PaveSlot 60	60	500/1000	123	10	C, D	3.8
CS.10105.P.G	Galvanised Centre Single PaveSlot 105	105	500/1000	123	10	C, D	6.6
CS.1050.P.G	Galvanised Centre Single PaveSlot 150	150	500/1000	123	10	C, D	9.3
CS.1060.P.SS	Stainless Steel Centre Single PaveSlot 60	60	500/1000	123	10	C, D	3.9
CS.10105.P.SS	Stainless Steel Centre Single PaveSlot 105	105	500/1000	123	10	C, D	6.8
CS.10150.P.SS	Stainless Steel Centre Single PaveSlot 150	150	500/1000	123	10	C, D	9.5

KE 100
PaveSlot Specification

Offset Twin Galvanised or Stainless Steel PaveSlot
60, 105, or 150mm Upstand

The Offset Twin slot PaveSlot grating is available in both Galvanised or Stainless Steel. It has a width of 123mm, and is available in a 60, 105, or 150mm upstand.

Loading: **C250, D400**
Width: **123mm**
Upstand: **60, 105 or 150mm**



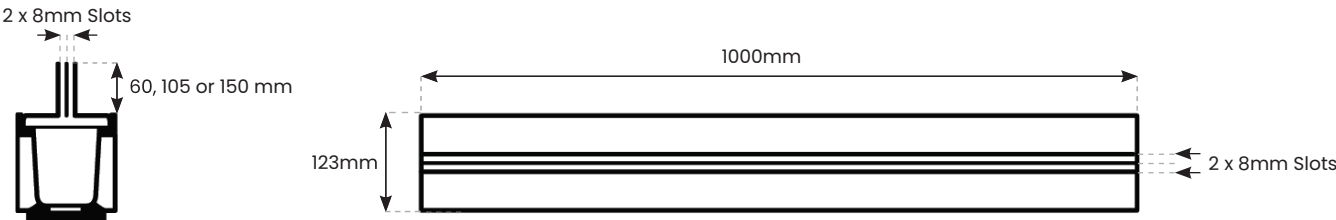
Article no.	Designation	Upstand Height (mm)	Length (mm)	Overall Width (mm)	Slot Width (mm)	Load Class	Weight (kg)
OT.1060.P.G	Galvanised Offset Twin PaveSlot 60	60	500/1000	123	2 x 8mm	C, D	7.1
OT.10105.P.G	Galvanised Offset Twin PaveSlot 105	105	500/1000	123	2 x 8mm	C, D	12.5
OT.10150.P.G	Galvanised Offset Twin PaveSlot 150	150	500/1000	123	2 x 8mm	C, D	17.8
OT.1060.P.SS	Stainless Steel Offset Twin PaveSlot 60	60	500/1000	123	2 x 8mm	C, D	7.2
OT.10105.P.SS	Stainless Steel Offset Twin PaveSlot 105	105	500/1000	123	2 x 8mm	C, D	12.7
OT.10150.P.SS	Stainless Steel Offset Twin PaveSlot 150	150	500/1000	123	2 x 8mm	C, D	18.2

KE 100
PaveSlot Specification

Centre Twin Galvanised or Stainless Steel PaveSlot
60, 105, or 150mm Uprand

The Centre Twin slot PaveSlot grating is available in both Galvanised or Stainless Steel. It has a width of 123mm, and is available in a 60, 105, or 150mm upstand.

Loading: C250, D400
Width: 123mm
Upstand: 60, 105 or 150mm



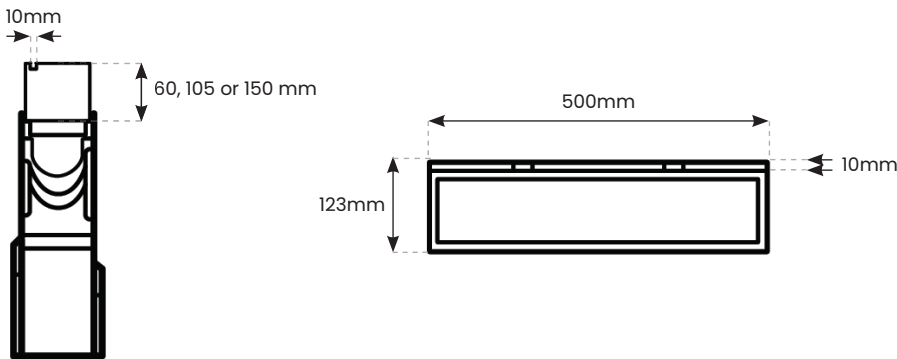
Article no.	Designation	Upstand Height (mm)	Length (mm)	Overall Width (mm)	Slot Width (mm)	Load Class	Weight (kg)
CT.1060.P.G	Galvanised Centre Twin PaveSlot 60	60	500/1000	123	2 x 8mm	C, D	6.9
CT.10105.P.G	Galvanised Centre Twin PaveSlot 105	105	500/1000	123	2 x 8mm	C, D	12.2
CT.10150.P.G	Galvanised Centre Twin PaveSlot 150	150	500/1000	123	2 x 8mm	C, D	17.4
CT.1060.P.SS	Stainless Steel Centre Twin PaveSlot 60	60	500/1000	123	2 x 8mm	C, D	7
CT.10105.P.SS	Stainless Steel Centre Twin PaveSlot 105	105	500/1000	123	2 x 8mm	C, D	12.4
CT.10150.P.SS	Stainless Steel Centre Twin PaveSlot 150	150	500/1000	123	2 x 8mm	C, D	17.7

KE 100
PaveSlot Specification

Access Tray Galvanised or Stainless Steel
60, 105, or 150mm Upstand

The Access Tray for KE 100 is available in both Galvanised or Stainless Steel.
It has a width of 123mm, and is available in a 60, 105, or 150mm upstand.

Loading: C250, D400
Width: 123mm
Upstand: 60, 105 or 150mm



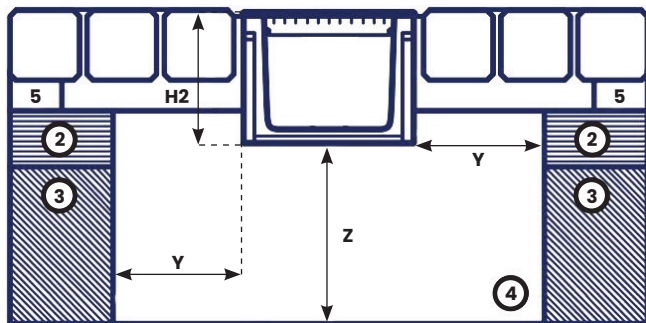
Article no.	Designation	UpstandHeight (mm)	Length (mm)	Overall Width (mm)	Slot Width (mm)	Load Class	Weight (kg)
AT.1060.P.G	Galvanised Offset Single Access Tray 60	60	500	123	10	C, D	3.2
AT.10105.P.G	Galvanised Offset Single Access Tray 105	105	500	123	10	C, D	6.5
AT.10150.P.G	Galvanised Offset Single Access Tray 150	150	500	123	10	C, D	9.7
AT.1060.P.SS	Stainless Steel Offset Single Access Tray 60	60	500	123	10	C, D	3.3
AT.10105.P.SS	Stainless Steel Offset Single Access Tray 105	105	500	123	10	C, D	6.7
AT.10150.P.SS	Stainless Steel Offset Single Access Tray 150	150	500	123	10	C, D	9.9

KE 100 Installation Guide

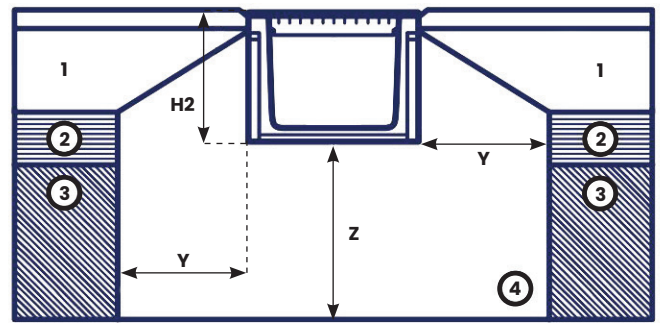
Grounds conditions must be suitable and all dimensions shown are the minimum requirement.

Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team through emailing us at technical@polycon.co.uk or by calling us on **0151 424 9747**.

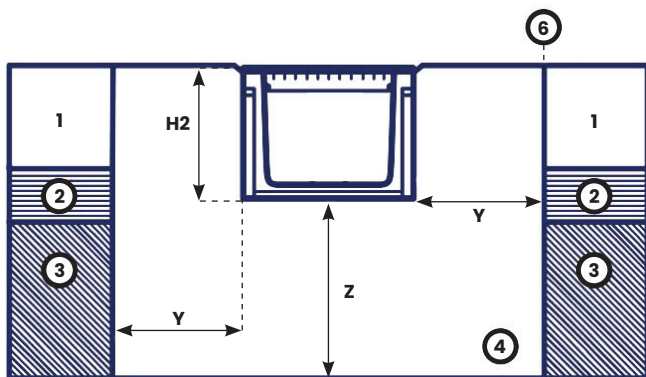
BlockPaving



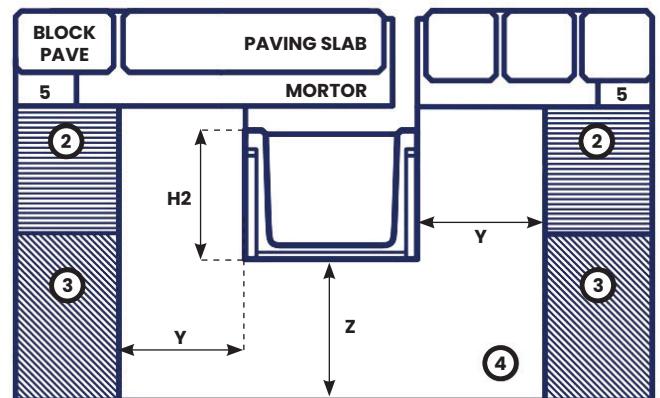
Tarmac



Concrete



PaveSlot



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

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

**** 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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Widnes, WA8 8UB

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