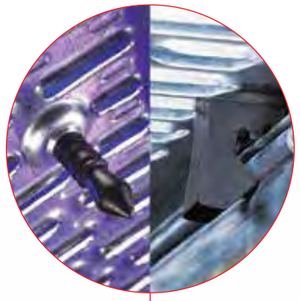
KlassikDrain – General Purpose Trench Drains

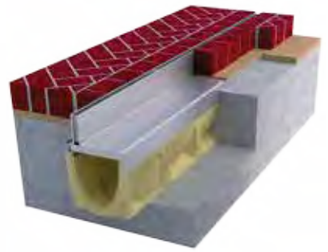
Product Features

Wide choice of grates - In various materials and styles including **Heelsafe®** *Anti-Slip* for applications from Load Class A to Load Class D.



QuickLok and DrainLok - Patented, boltless locking systems provides quick fitting and removal of grates. Helps reduce installation and maintenance time and cost.

Channel identification - Channels have numbering on sidewalls and on the invert of the channel to allow easy identification after concrete encasement.



Brickslot 100 and 200 - A discreet drainage solution for use with brick or stone pavers. Available for K100 and K200 channels with 10mm single slot or a double slot with two 8mm slots.

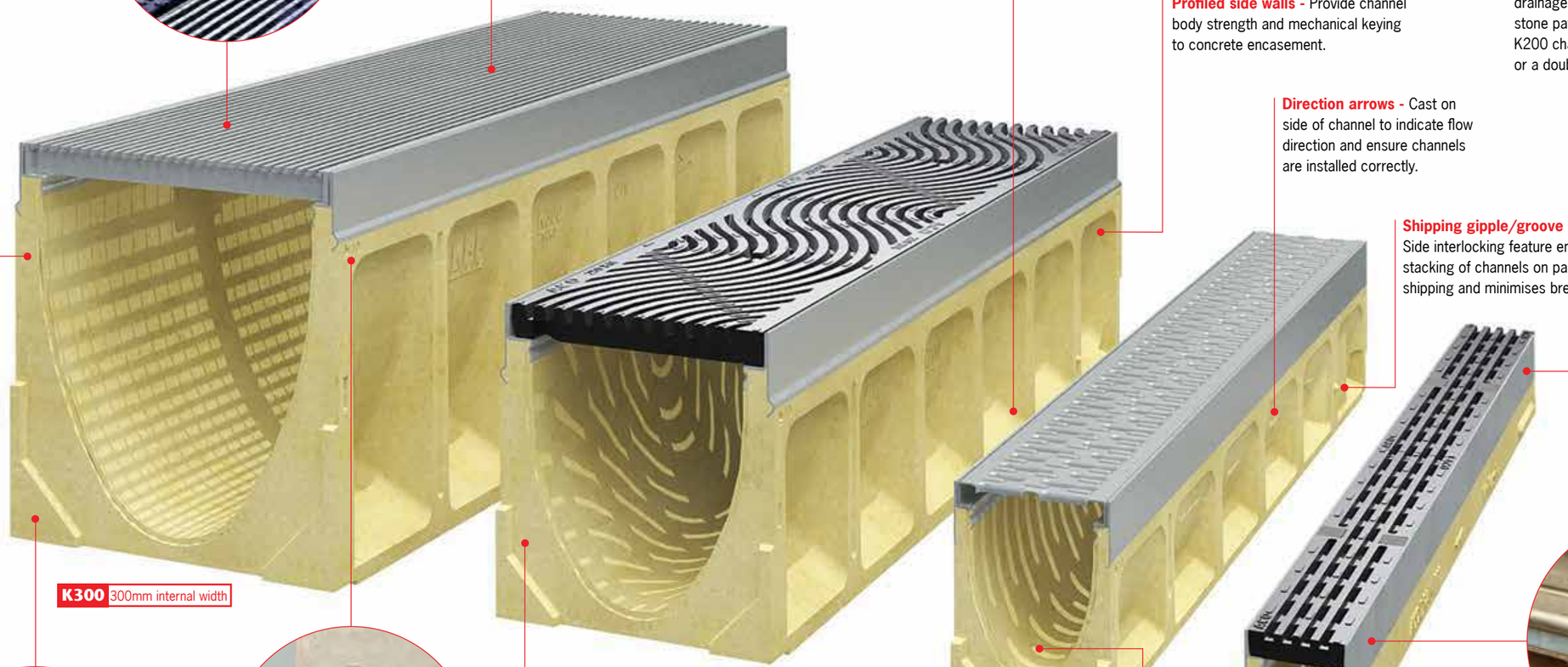
Profiled side walls - Provide channel body strength and mechanical keying to concrete encasement.

Direction arrows - Cast on side of channel to indicate flow direction and ensure channels are installed correctly.

Shipping gipple/groove - Side interlocking feature ensures safer stacking of channels on pallets for shipping and minimises breakage.

Steel edge rail - Provides additional strength and protects channel body from damage. Available in both galvanised and stainless steel.

Polymer concrete - A durable, lightweight material made from polyester resin binder, reinforced with mineral aggregates and fillers. It provides up to four times the compressive strength of cement concrete.

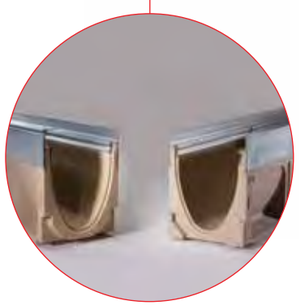


K300 300mm internal width

K200 200mm internal width

K100 100mm internal width

K50 50mm internal width



Interconnecting end profiles - Allow easy and effective joining of channels. Appropriate sealant can be used to create a sealed joint.

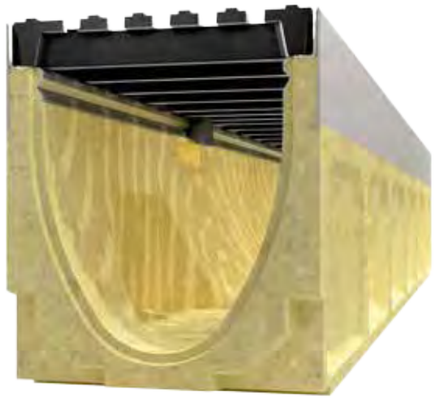
System numbering - At the ends of the channel, a number indicates the sloped channel that will connect to it.

Sloped (0.5%) channel units - One metre long units provide 40 metres of continuous slope that equates to 5mm fall per metre. Neutral channel units can be used to extend run lengths.

Knock-outs - Included on all neutral channels and every fifth sloped channel unit to enable a vertical outlet connection to the pipework. See product pages for details and sizes for each system.

Anti-shunt lugs - Protrusions in grate fit into recesses on the edge rail to prevent longitudinal movement.

KlassikDrain K100 / KS100

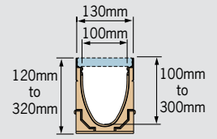


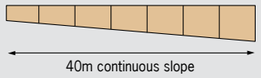
K100 is a 100mm wide general purpose system with galvanised steel edge rail and a wide choice of grates in different materials and slot styles up to Load Class D (8 tonne wheel load). Grates are secured by either patented DrainLok or QuickLok boltless locking systems.

KS100 is the same system, but the edge rail is grade 304 stainless steel. KS100 should be used where excellent aesthetics are required or where increased corrosion resistance is needed.

KlassikDrain K100 / KS100

Key Dimensions





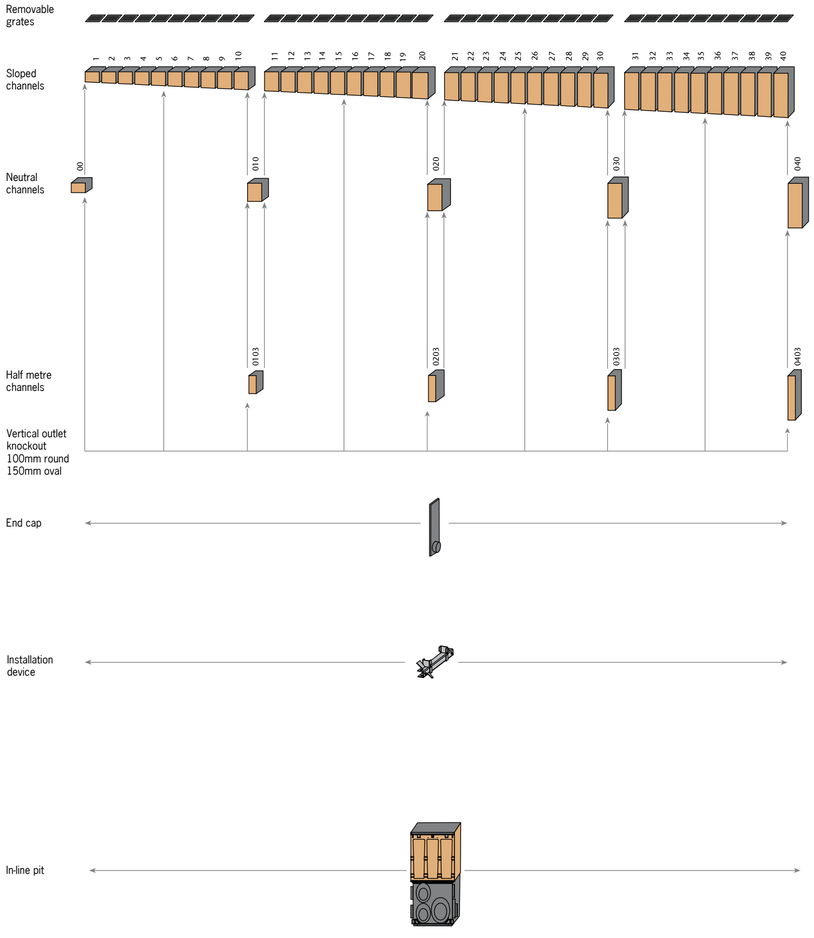
Typical Applications

- Car parks and garages
- Shopping centres
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

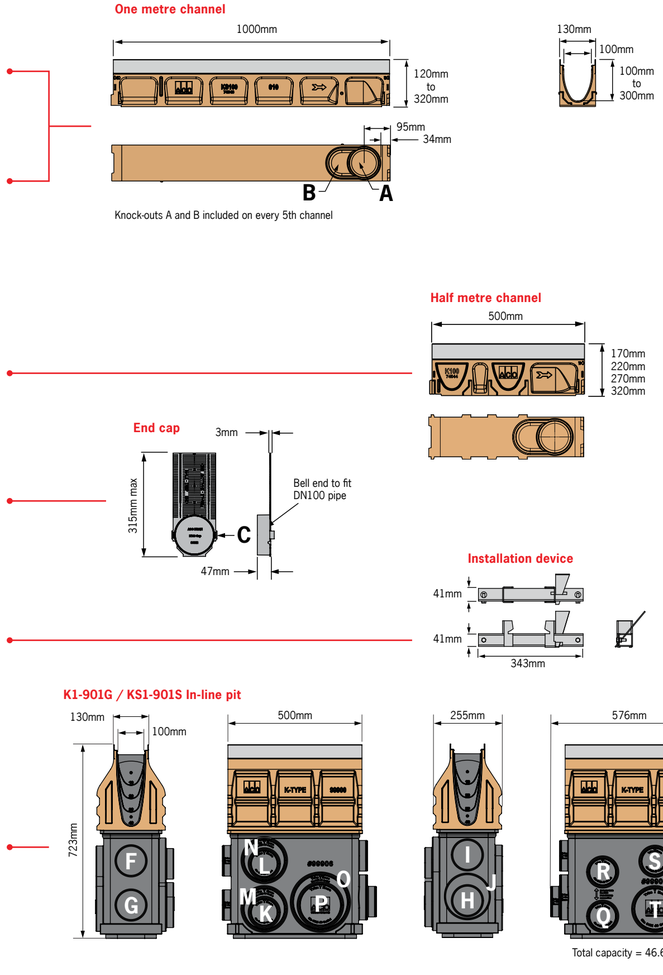
Selection Criteria

- Light to industrial duty loads, dependent on grate.
- Chemical resistant, can be used in WSUD designs.
- Multiple grate options to meet design requirements.
- Hydraulic capacity for small catchments.
- Sloped and neutral channels available.

K100 / KS100 System layout



K100 / KS100 Channels and accessories



K100 / KS100 Outlet flow rates

Channel outlet flow rates

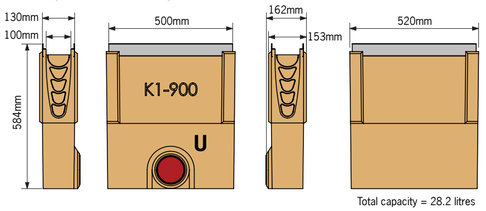
Outlet	Channels	Outlet Type	Outlet Size	Invert Depth mm	Outlet Flow Rate L/s
A	K1-00 / KS1-00	Vertical	100mm round	100	7.2
A	K1-040 / KS1-040	Vertical	100mm round	300	12.4
B	K1-00 / KS1-00	Vertical	150mm oval	100	11.7
B	K1-040 / KS1-040	Vertical	150mm oval	300	20.3
C	K1-020 / KS1-020	Horizontal	100mm round	200	7.2
C	K1-040 / KS1-040	Horizontal	100mm round	300	10.1

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.

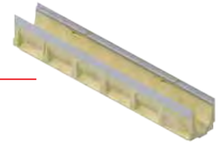
In-line pit outlet flow rates

Outlet	In-line Pit	Horizontal Outlet Size	Invert Depth mm	Outlet Flow Rate L/s
F	K1-901G / KS1-901S	100mm round	490	14.1
G	K1-901G / KS1-901S	100mm round	652	16.8
H	K1-901G / KS1-901S	100mm round	643	16.7
I	K1-901G / KS1-901S	100mm round	471	13.8
J	K1-901G / KS1-901S	150mm round	657	36.2
K	K1-901G / KS1-901S	100mm round	671	17.1
L	K1-901G / KS1-901S	100mm round	492	14.2
M	K1-901G / KS1-901S	150mm round	693	37.5
N	K1-901G / KS1-901S	150mm round	508	30.4
O	K1-901G / KS1-901S	200mm round	693	63.5
P	K1-901G / KS1-901S	150mm round	671	36.7
Q	K1-901G / KS1-901S	100mm round	690	17.4
R	K1-901G / KS1-901S	100mm round	525	14.7
S	K1-901G / KS1-901S	100mm round	482	14.0
T	K1-901G / KS1-901S	150mm round	690	37.4
U	K1-900G / KS1-900S	100mm round	565	15.4

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.
In-line pit flow rates are without rubbish basket - using rubbish basket reduces flow.



K100 / KS100 Channels and accessories



One metre channels – sloped and neutral

There are 40 sloped channels available to create 40 metres of continuous sloping run with either galvanised or stainless steel edge rail. Sloped channels have a 0.5% fall.

Neutral channels are available in five depths and can be used to create constant depth runs or inserted in sloped runs to increase the overall length.

Vertical outlet knockouts are available on all neutral channels and on number 5, 10, 15, 20, 25, 30, 35, 40 sloped channels.

Half metre channels

Half metre neutral channels in four depths, supplement one metre channels. Side knockout and profiling enable T-junction to be created.

Vertical outlet knockouts on all half metre channels. Available with either galvanised or stainless steel edge rail.

End cap

Fits all channels and manufactured from grey ABS to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. Bell end connection to DN100 pipe.

Note: For depth 00, 1-10 channels, ACO recommends removal of unused sections of bell end to ensure adequate pavement material cover.

Installation device

Fits moulded recesses on body of channel. Provides height and joint alignment - a sliding clamp locks the two channels together. Bolt to rebar on either side of channel to hold channels in place during concrete pour.

Note: Not reusable; it is sacrificial within concrete encasement.

In-line pit

Available with either galvanised or stainless steel edge rail. Optional plastic rubbish basket.

Any channel can be connected to the in-line pit by removing the end wall to the correct height. Cut-out guides provided for connection to channels 00, 010, 020, 030 and 040. One blanking end plate supplied with in-line pit.

K1-900G/KS1-900S In-line pit

One part in-line pit with DN100 removable plug for pipe connection.

K1-901G/KS1-901S In-line pit

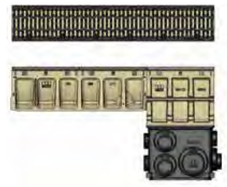
Two part in-line pit with DN100, DN150 and DN200 cut outs for pipe connection.

K100 / KS100 Parts table

Channels and Accessories	Part No.		Invert Depth mm		Overall Depth mm		Volume L	Weight kg
	K100	KS100	Female	Male	Female	Male		
K1-00 Neutral channel - (1m)³	**144041**	**144441**	**100**	**100**	**120**	**120**	**7.4**	**12.7**
K1-1 Sloped channel - (1m)	**144001**	**144401**	100	105	120	125	7.5	12.7
K1-2 Sloped channel - (1m)	**144002**	**144402**	105	110	125	130	7.7	13.1
K1-3 Sloped channel - (1m)	**144003**	**144403**	110	115	130	135	8.1	13.5
K1-4 Sloped channel - (1m)	**144004**	**144404**	115	120	135	140	8.4	13.8
K1-5 Sloped channel - (1m)³	**144005**	**144405**	120	125	140	145	8.8	14.2
K1-6 Sloped channel - (1m)	**144006**	**144406**	125	130	145	150	9.2	14.6
K1-7 Sloped channel - (1m)	**144007**	**144407**	130	135	150	155	9.6	14.9
K1-8 Sloped channel - (1m)	**144008**	**144408**	135	140	155	160	10.0	15.3
K1-9 Sloped channel - (1m)	**144009**	**144409**	140	145	160	165	10.4	15.6
K1-10 Sloped channel - (1m)³	**144010**	**144410**	145	150	165	170	10.8	16.0
K1-010 Neutral channel - (1m)³	**144043**	**144443**	**150**	**150**	**170**	**170**	**10.8**	**16.0**
K1-0103 Neutral channel - (0.5m)³	**144044**	**144444**	**150**	**150**	**170**	**170**	**5.4**	**7.7**
K1-11 Sloped channel - (1m)	**144011**	**144411**	150	155	170	175	11.2	16.4
K1-12 Sloped channel - (1m)	**144012**	**144412**	155	160	175	180	11.7	16.7
K1-13 Sloped channel - (1m)	**144013**	**144413**	160	165	180	185	12.1	17.1
K1-14 Sloped channel - (1m)	**144014**	**144414**	165	170	185	190	12.5	17.5
K1-15 Sloped channel - (1m)³	**144015**	**144415**	170	175	190	195	12.9	17.8
K1-16 Sloped channel - (1m)	**144016**	**144416**	175	180	195	200	13.4	18.2
K1-17 Sloped channel - (1m)	**144017**	**144417**	180	185	200	205	13.8	18.6
K1-18 Sloped channel - (1m)	**144018**	**144418**	185	190	205	210	14.2	18.9
K1-19 Sloped channel - (1m)	**144019**	**144419**	190	195	210	215	14.6	19.3
K1-20 Sloped channel - (1m)³	**144020**	**144420**	195	200	215	220	15.1	19.7
K1-020 Neutral channel - (1m)³	**144045**	**144445**	**200**	**200**	**220**	**220**	**15.0**	**19.7**
K1-0203 Neutral channel - (0.5m)³	**144046**	**144446**	**200**	**200**	**220**	**220**	**7.5**	**9.3**
K1-21 Sloped channel - (1m)	**144021**	**144421**	200	205	220	225	15.5	20.0
K1-22 Sloped channel - (1m)	**144022**	**144422**	205	210	225	230	15.9	20.4
K1-23 Sloped channel - (1m)	**144023**	**144423**	210	215	230	235	16.4	20.8
K1-24 Sloped channel - (1m)	**144024**	**144424**	215	220	235	240	16.7	21.1
K1-25 Sloped channel - (1m)³	**144025**	**144425**	220	225	240	245	17.2	21.5
K1-26 Sloped channel - (1m)	**144026**	**144426**	225	230	245	250	17.6	21.9
K1-27 Sloped channel - (1m)	**144027**	**144427**	230	235	250	255	18.1	22.2
K1-28 Sloped channel - (1m)	**144028**	**144428**	235	240	255	260	18.5	22.6
K1-29 Sloped channel - (1m)	**144029**	**144429**	240	245	260	265	18.9	23.0
K1-30 Sloped channel - (1m)³	**144030**	**144430**	245	250	265	270	19.3	23.3
K1-030 Neutral channel - (1m)³	**144047**	**144447**	**250**	**250**	**270**	**270**	**19.3**	**23.3**
K1-0303 Neutral channel - (0.5m)³	**144048**	**144448**	**250**	**250**	**270**	**270**	**9.7**	**10.9**
K1-31 Sloped channel - (1m)	**144031**	**144431**	250	255	270	275	19.8	23.7
K1-32 Sloped channel - (1m)	**144032**	**144432**	255	260	275	280	20.2	24.0
K1-33 Sloped channel - (1m)	**144033**	**144433**	260	265	280	285	20.6	24.4
K1-34 Sloped channel - (1m)	**144034**	**144434**	265	270	285	290	21.0	24.8
K1-35 Sloped channel - (1m)³	**144035**	**144435**	270	275	290	295	21.5	25.1
K1-36 Sloped channel - (1m)	**144036**	**144436**	275	280	295	300	21.9	25.5
K1-37 Sloped channel - (1m)	**144037**	**144437**	280	285	300	305	22.4	25.9
K1-38 Sloped channel - (1m)	**144038**	**144438**	285	290	305	310	22.8	26.3
K1-39 Sloped channel - (1m)	**144039**	**144439**	290	295	310	315	23.2	26.6
K1-40 Sloped channel - (1m)³	**144040**	**144440**	295	300	315	320	23.7	27.0
K1-040 Neutral channel - (1m)³	**144049**	**144449**	**300**	**300**	**320**	**320**	**23.6**	**27.0**
K1-0403 Neutral channel - (0.5m)³	**144050**	**144450**	**300**	**300**	**320**	**320**	**11.8**	**12.5**
K1-900 In-line pit (0.5m)	**142838**	**142839**	565	565	585	585	28.2	29.5
K1-901 In-line pit (0.5m)	**141817**	**141818**	-	-	723	723	46.6	23.9
Type 901 In-line plastic rubbish basket	**01498**		-	-	-	-	-	0.5
End cap	**96822**		-	-	315	315	-	0.2
Debris strainer for 100mm knockout	**93488**		-	-	-	-	-	0.1
Installation device	**97477**		-	-	-	-	-	1.3
Grate removal tool	**01318**		-	-	-	-	-	0.1

Note:
1. K100 has a galvanised steel edge rail for general use. KS100 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion resistance is required.
2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 28 to 30.
3. Preformed 100mm diameter and 150mm oval knockouts cast on underside of these channels (00, 5, 10, 010, 0103, 15, 20, 020, 0203, 25, 30, 030, 0303, 35, 40, 040, 0403).
4. End cap can be cut down to suit all channels.
5. In-line pit details on page 27. Choose appropriate half metre grate from pages 28 to 30.
6. Debris strainer details for 100mm dia. outlet on page 96.

Polymer concrete in-line pits



Polymer concrete in-line pits are used either as standalone area drains or most commonly as the outlet to a trench run. They provide the highest hydraulic output and allow easy access to the pipe system for maintenance.

The in-line pit with the same width as the channel is visually indistinguishable along the trench run.

K1-901G/KS1-901S 100mm wide in-line pit

QuickLok locking bar

K100/KS100 Grates – choice of grates to match channel with DrainLok or QuickLok boltless locking system, see pages 28 to 30. QuickLok grates require a removable QuickLok locking bar for easy access to rubbish basket and pipework.

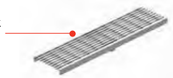
Top section – polymer concrete with integrally cast-in galvanised or stainless steel frame. Guides aid connection of male channel ends to channel numbers 00, 010, 020, 030, and 040.
Other channels can be connected by removing wall to required height.

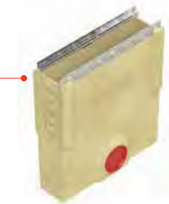
Rubbish basket – in-line pit plastic rubbish basket designed to collect debris washed from trench run. Supported in in-line pit top to avoid creation of a vacuum and reduction in outflow.

Polymer concrete pit – with one preformed DN100 pipe connection point. Remove plug to connect.

Plastic base – polyethylene bases with wide range of cut-outs for easy pipe connection. Cut outs on end and side allow connection to stormwater pipe.

K1-900G/KS1-900S 100mm wide in-line pit

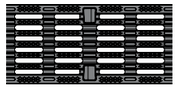
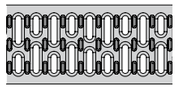
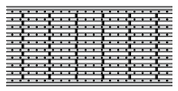
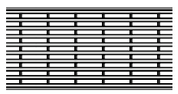
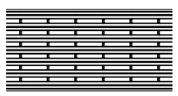
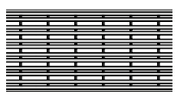
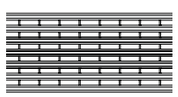


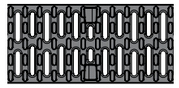
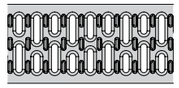
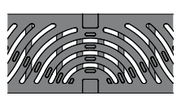
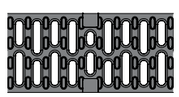
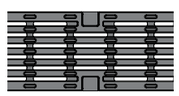
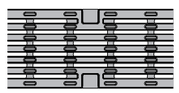


K100/KS100 In-line Pit	Part No.		Volume L*	Weight kg
	K100	KS100		
K1-900 In-line pit (0.5m)	**142838**	**142839**	28.2	29.5
K1-901 In-line pit (0.5m)	**141817**	**141818**	46.6	23.9
Type 901 In-line plastic rubbish basket	**01498**		–	0.5

* Volume is up to grate seat and without rubbish basket.

K100/KS100 Grates

	Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg					
LOAD CLASS A – AS 3996 – 10kN – approximate wheel load 330kg											
Plastic Intercept Heelsafe® *Anti-Slip*											
	Type 494D Black polypropylene	**142459**	500	9 x 45	18,065	0.8	✓	✓	✓	✓	DL
	Type 495D Grey polypropylene	**142460**	500	9 x 45	18,065	0.8	✓	✓	✓	✓	DL
Steel Slotted											
	Type 420D Galvanised	**12610**	1000	30 x 10	24,380	2.7	✓	✓	✓	✗	DL
	Type 421D Galvanised	**12611**	500	30 x 10	12,190	1.4	✓	✓	✓	✗	DL
	Type 450D Grade 304 stainless	**12640**	1000	30 x 10	24,380	2.7	✓	✓	✓	✗	DL
	Type 452D Grade 304 stainless	**12641**	500	30 x 10	12,190	1.4	✓	✓	✓	✗	DL
LOAD CLASS B – AS 3996 – 80kN – approximate wheel load 2,670kg											
Stainless Wedgewire Heelsafe® *Anti-Slip*											
	Type 447D Grade 304 stainless	**142215**	1000	6 x 38	60,480	3.2	✓	✓	✓	✓	DL
	Type 448D Grade 304 stainless	**142216**	500	6 x 38	30,240	1.6	✓	✓	✓	✓	DL
Stainless 5 Star Heelsafe® *Anti-Slip*											
	Type 443D Grade 304 stainless	**142217**	1000	6 x 38	60,480	3.2	✓	✓	✓	✓	DL
	Type 444D Grade 304 stainless	**142218**	500	6 x 38	30,240	1.6	✓	✓	✓	✓	DL
Stainless Twinwire Heelsafe® *Anti-Slip*											
	Type 441D Grade 304 stainless	**142556**	1000	6 x 39	36,000	4.4	✓	✓	✓	✓	DL
	Type 442D Grade 304 stainless	**142557**	500	6 x 39	18,000	2.2	✓	✓	✓	✓	DL
Stainless Splitwire Heelsafe® *Anti-Slip*											
	Type 439D Grade 304 stainless	**142569**	1000	6 x 39	48,000	4.4	✓	✓	✓	✓	DL
	Type 440D Grade 304 stainless	**142570**	500	6 x 39	24,000	2.2	✓	✓	✓	✓	DL
Galvanised Longitudinal Heelsafe® *Anti-Slip*											
	Type 438D Galvanised	**132555**	1000	8 x 29	45,600	4.0	✓	✓	✓	✓	DL
	Type 437D Galvanised	**132550**	500	8 x 29	22,800	2.1	✓	✓	✓	✓	DL

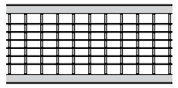
	Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg					
LOAD CLASS D – AS 3996 – 240kN – approximate wheel load 8,000kg											
Plastic Slotted Heelsafe® *Anti-Slip*											
	Type 492D Black polyamide	**132720**	500	39 x 8	14,310	1.0	✓	✓	✓	✓	DL
Steel Slotted											
	Type 425D Galvanised	**12614**	1000	30 x 10	24,380	4.0	✓	✓	✓	✗	DL
	Type 426D Galvanised	**12615**	500	30 x 10	12,190	2.0	✓	✓	✓	✗	DL
	Type 455D Grade 304 stainless	**12644**	1000	30 x 10	24,380	4.0	✓	✓	✓	✗	DL
	Type 457D Grade 304 stainless	**12645**	500	30 x 10	12,190	2.0	✓	✓	✓	✗	DL
Iron Wave Heelsafe® *Anti-Slip*											
	Type 480D Ductile iron	**142461**	500	7	23,210	4.5	✓	✓	✓	✓	DL
Iron Slotted											
	Type 460D Ductile iron	**12670**	500	39 x 12	22,000	4.6	✓	✗	✓	✗	DL
Iron Intercept Heelsafe® *Anti-Slip*											
	Type 476D Ductile iron	**142171**	500	6 x 54	14,780	3.8	✓	✓	✓	✓	DL
Iron Galvanised Intercept Heelsafe® *Anti-Slip*											
	Type 475D Galvanised iron	**142172**	500	6 x 54	14,780	3.8	✓	✓	✓	✓	DL

Key

- Compliant to AS 1428.2
- Resist the penetration of a 10mm heel
- Compliant to AS 3996
- Rated to AS 4586
- Locking Systems, DL – DrainLok, QL – QuickLok (see page 31)

K100/KS100 Grades

Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg					
LOAD CLASS D – AS 3996 – 240kN – approximate wheel load 8,000kg										
Steel Mesh										
Type 405Q Galvanised	**142401**	1000	13.5 x 30.5	81,700	4.3	✗	✗	✓	✗	QL
Type 406Q Galvanised	**142402**	500	13.5 x 30.5	40,850	2.2	✗	✗	✓	✗	QL
Type 430Q Grade 304 stainless	**142403**	1000	13.5 x 30.5	81,700	4.1	✗	✗	✓	✗	QL
Type 431Q Grade 304 stainless	**142404**	500	13.5 x 30.5	40,850	2.1	✗	✗	✓	✗	QL



Brickslot for K100/KS100 Channels

For more information, see page 55.

Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg					
Approximate wheel load 8,000kg – slow moving vehicles										
Steel Brickslot 100										
Brickslot 100 Galvanised	**142790**	1000	10	10,000	7.8	✓	✓	✓	N/A	N/A
	142791	500	10	5,000	3.9	✓	✓	✓	N/A	N/A
Brickslot 100 Grade 304 stainless	**142792**	1000	10	10,000	7.8	✓	✓	✓	N/A	N/A
	142793	500	10	5,000	3.9	✓	✓	✓	N/A	N/A
Steel Double Brickslot 100										
Double Brickslot 100 Galvanised	**142470**	1000	8 (x2)	16,000	8.2	✓	✓	✓	N/A	N/A
	142471	500	8 (x2)	8,000	4.1	✓	✓	✓	N/A	N/A
Double Brickslot 100 Grade 304 stainless	**142473**	1000	8 (x2)	16,000	8.2	✓	✓	✓	N/A	N/A
	142474	500	8 (x2)	8,000	4.1	✓	✓	✓	N/A	N/A

Key

Compliant to AS 1428.2 — Resist the penetration of a 10mm heel — Compliant to AS 3996

Rated to AS 4586 — Locking Systems, DL – DrainLok, QL – QuickLok (see page 31)

Locking systems

DrainLok – barless and boltless locking system

Fast locking device removes the need for bars and bolts and improves the channels hydraulic capacity. The DrainLok mechanism simply clips into the channel edge rail for quick installation. ACO's DrainLok grates are fitted with anti–shunt lugs that restrict grate movement when installed, improving durability and longevity of the system.

PLACE GRATE

Position grate onto channel and align anti–shunt lugs with the recess in the rail.

SECURE GRATE

Push down or stand on the grate until it clicks into position.

REMOVE GRATE

Insert grate removal tool into slots at end of the grate and pull up sharply. Remaining grates can be removed by hand.

QuickLok – boltless locking system

Comprises a spigot fitted onto the grate and a removable QuickLok bar in the channel, the QuickLok system locks the grate to the channel by aligning the spigot over the bar and applying pressure until they 'snap' together. With no loose bolts or bars, QuickLok provides a secure boltless lock that is still easy to remove for maintenance and cleaning. This saves time and money during installation.

FIT LOCKING BAR

Locate locking bar in recesses, rotate and use hammer to tap securely into place. Serrated ends grip in recess.

K200/K300 channels use plastic safety clip to hold in place.

FIT GRATE

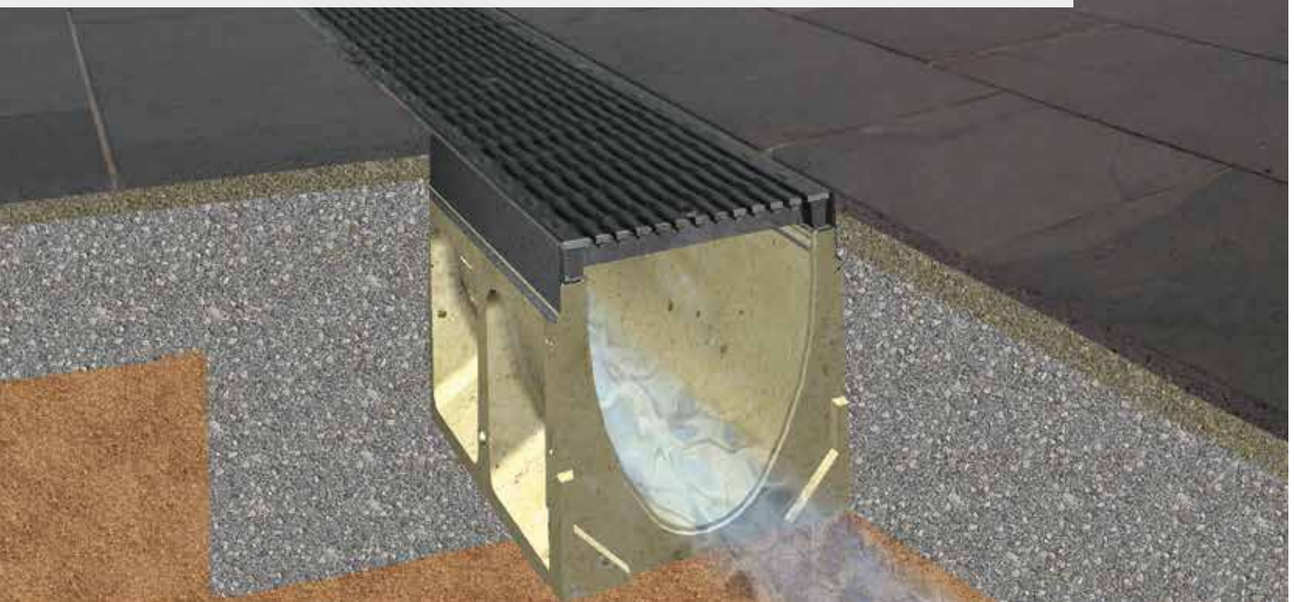
To install grate, align QuickLok spigot directly over locking bar.

Push down or stand on grate until it clicks into position.

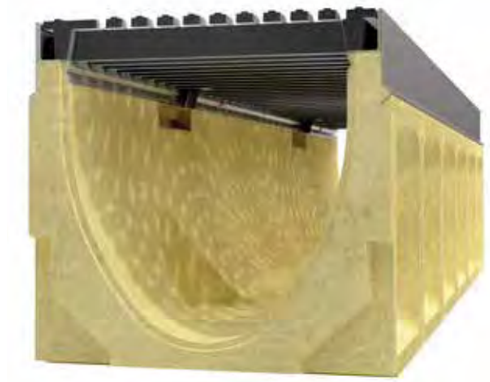
REMOVE GRATE

To remove first grate, insert grate removal tool into slots at end of grate; pull up sharply. Other grates can be removed by hand.

To remove bar, insert screwdriver into hole at end of bar and lever back serrated end; rotate bar free.

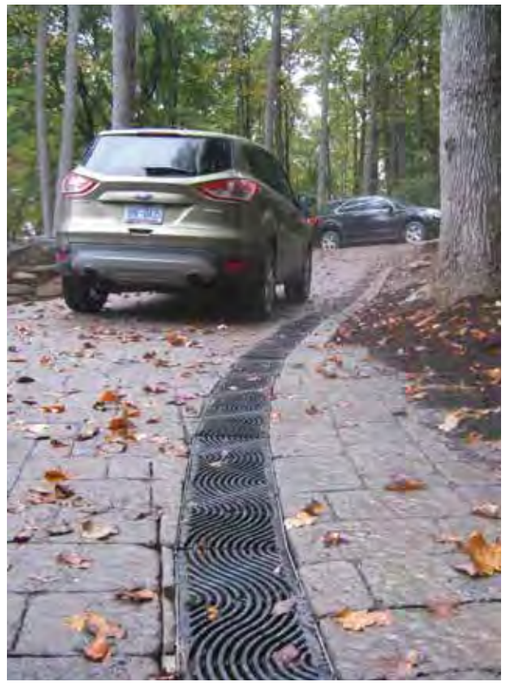


KlassikDrain K200 / KS200



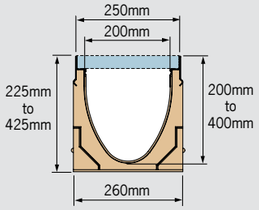
K200 is a 200mm wide general purpose system with galvanised steel edge rail and a wide choice of grates in different materials and slot styles up to Load Class D (8 tonne wheel load). Grates are secured by either patented DrainLok or QuickLok boltless locking systems.

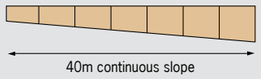
KS200 is the same system, but the edge rail is grade 304 stainless steel. KS200 should be used where excellent aesthetics are required or where increased corrosion resistance is needed.



KlassikDrain K200 / KS200

Key Dimensions





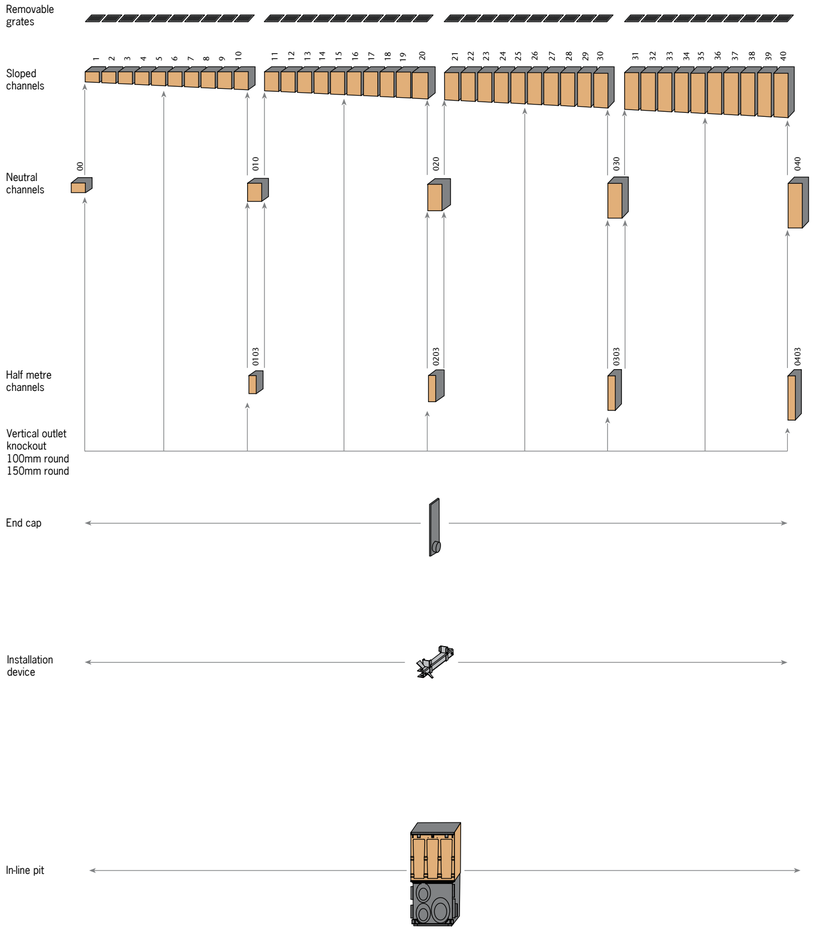
Typical Applications

- Car parks and garages
- Shopping centres
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

Selection Criteria

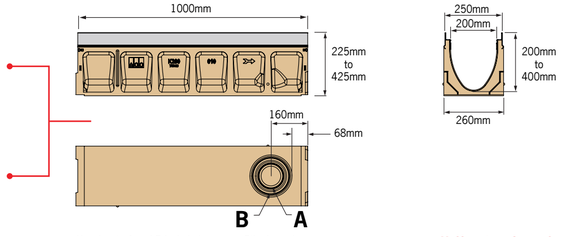
- Light to industrial duty loads, dependent on grate.
- Chemical resistant, can be used in WSUD designs.
- Multiple grate options to meet design requirements.
- Hydraulic capacity for medium catchments.
- Sloped and neutral channels available.

K200 / KS200 System layout



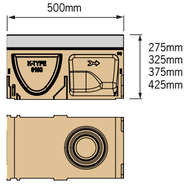
K200 / KS200 Channels and accessories

One metre channel

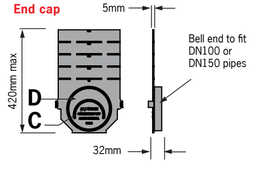


Knock-outs A and B included on every 5th channel

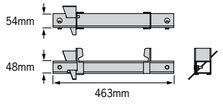
Half metre channel



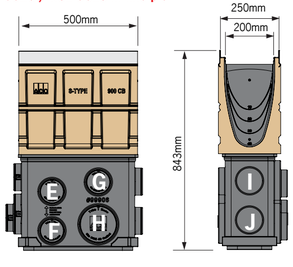
End cap

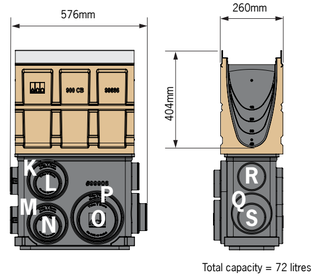


Installation device



K2-902G / KS2-902S In-line pit





Total capacity = 72 litres

K200 / KS200 Outlet flow rates

Channel outlet flow rates

Outlet	Channels	Outlet Type	Outlet Size	Invert Depth mm	Outlet Flow Rate L/s
A	K2-00 / KS2-00	Vertical	100mm round	200	10.1
A	K2-040 / KS2-040	Vertical	100mm round	400	14.3
B	K2-00 / KS2-00	Vertical	150mm round	200	22.8
B	K2-040 / KS2-040	Vertical	150mm round	400	32.2
C	K2-00 / KS2-00	Horizontal	100mm round	200	7.2
C	K2-040 / KS2-040	Horizontal	100mm round	400	12.4
D	K2-010 / KS2-010	Horizontal	150mm round	250	16.1
D	K2-040 / KS2-040	Horizontal	150mm round	400	25.4

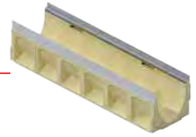
Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.

In-line pit outlet flow rates

Outlet	In-line Pit	Horizontal Outlet Size	Invert Depth mm	Outlet Flow Rate L/s
E	K2-902G / KS2-902S	100mm round	643	16.7
F	K2-902G / KS2-902S	100mm round	808	19.0
G	K2-902G / KS2-902S	100mm round	604	16.1
H	K2-902G / KS2-902S	150mm round	808	41.3
I	K2-902G / KS2-902S	100mm round	607	16.1
J	K2-902G / KS2-902S	100mm round	772	18.5
K	K2-902G / KS2-902S	150mm round	627	35.1
L	K2-902G / KS2-902S	100mm round	613	16.2
M	K2-902G / KS2-902S	150mm round	808	41.3
N	K2-902G / KS2-902S	100mm round	794	18.8
O	K2-902G / KS2-902S	150mm round	794	40.8
P	K2-902G / KS2-902S	200mm round	808	70.5
Q	K2-902G / KS2-902S	150mm round	770	40.1
R	K2-902G / KS2-902S	100mm round	589	15.8
S	K2-902G / KS2-902S	100mm round	759	18.4

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.
In-line pit flow rates are without rubbish basket - using rubbish basket reduces flow.

K200 / KS200 Channels and accessories



One metre channels – sloped and neutral

There are 40 sloped channels available to create 40 metres of continuous sloping run with either galvanised or stainless steel edge rail. Sloped channels have a 0.5% fall.

Neutral channels are available in five depths and can be used to create constant depth runs or inserted in sloped runs to increase the overall length.

Vertical outlet knockouts are available on all neutral channels and on number 5, 10, 15, 20, 25, 30, 35, 40 sloped channels.

Half metre channels

Half metre neutral channels in four depths, supplement one metre channels. Side knockout and profiling enable T-junction to be created.

Vertical outlet knockouts on all half metre channels. Available with either galvanised or stainless steel edge rail.

End cap

Fits all channels and manufactured from grey ABS to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. Bell end connection to DN100 and DN150 pipe.

Note: For depth 00, 1-10 channels, ACO recommends removal of unused sections of bell end to ensure adequate pavement material cover.

Installation device

Fits moulded recesses on body of channel. Provides height and joint alignment - a sliding clamp locks the two channels together. Bolt to rebar on either side of channel to hold channels in place during concrete pour.

Note: Not reusable; it is sacrificial within concrete encasement.

K2-902G/KS2-902S In-line pit

Two part in-line pit with DN100, DN150 and DN200 cut-outs for pipe connection. Optional plastic rubbish basket. Available with either galvanised or stainless steel edge rail.

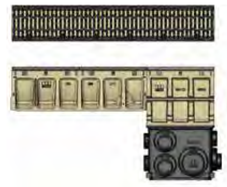
Any channel can be connected to the in-line pit by removing the end wall to the correct height with a box cutter. Cut-out guides provided for connection to channels 00, 010, 020, 030 and 040. One blanking end plate supplied with in-line pit.

K200 / KS200 Parts table

Channels and Accessories	Part No.		Invert Depth mm		Overall Depth mm		Volume L	Weight kg
	K200	KS200	Female	Male	Female	Male		
K2-00 Neutral channel - (1m)³	**145041**	**145441**	**200**	**200**	**225**	**225**	**28.5**	**37.9**
K2-1 Sloped channel - (1m)	**145001**	**145401**	200	205	225	230	30.1	37.9
K2-2 Sloped channel - (1m)	**145002**	**145402**	205	210	230	235	30.8	38.4
K2-3 Sloped channel - (1m)	**145003**	**145403**	210	215	235	240	31.5	38.9
K2-4 Sloped channel - (1m)	**145004**	**145404**	215	220	240	245	32.3	39.4
K2-5 Sloped channel - (1m)³	**145005**	**145405**	220	225	245	250	33.1	39.9
K2-6 Sloped channel - (1m)	**145006**	**145406**	225	230	250	255	33.9	40.4
K2-7 Sloped channel - (1m)	**145007**	**145407**	230	235	255	260	34.7	40.9
K2-8 Sloped channel - (1m)	**145008**	**145408**	235	240	260	265	35.5	41.4
K2-9 Sloped channel - (1m)	**145009**	**145409**	240	245	265	270	36.3	41.9
K2-10 Sloped channel - (1m)³	**145010**	**145410**	245	250	270	275	37.1	42.4
K2-010 Neutral channel - (1m)³	**145043**	**145443**	**250**	**250**	**275**	**275**	**36.3**	**42.4**
K2-0103 Neutral channel - (0.5m)³	**145044**	**145444**	**250**	**250**	**275**	**275**	**18.2**	**25.4**
K2-11 Sloped channel - (1m)	**145011**	**145411**	250	255	275	280	37.9	42.9
K2-12 Sloped channel - (1m)	**145012**	**145412**	255	260	280	285	38.7	43.4
K2-13 Sloped channel - (1m)	**145013**	**145413**	260	265	285	290	39.5	43.9
K2-14 Sloped channel - (1m)	**145014**	**145414**	265	270	290	295	40.4	44.4
K2-15 Sloped channel - (1m)³	**145015**	**145415**	270	275	295	300	41.2	44.9
K2-16 Sloped channel - (1m)	**145016**	**145416**	275	280	300	305	42.0	45.4
K2-17 Sloped channel - (1m)	**145017**	**145417**	280	285	305	310	42.9	45.9
K2-18 Sloped channel - (1m)	**145018**	**145418**	285	290	310	315	43.7	46.4
K2-19 Sloped channel - (1m)	**145019**	**145419**	290	295	315	320	44.5	46.9
K2-20 Sloped channel - (1m)³	**145020**	**145420**	295	300	320	325	45.3	47.4
K2-020 Neutral channel - (1m)³	**145045**	**145445**	**300**	**300**	**325**	**325**	**44.6**	**47.4**
K2-0203 Neutral channel - (0.5m)³	**145046**	**145446**	**300**	**300**	**325**	**325**	**22.3**	**29.0**
K2-21 Sloped channel - (1m)	**145021**	**145421**	300	305	325	330	46.2	47.9
K2-22 Sloped channel - (1m)	**145022**	**145422**	305	310	330	335	47.0	48.4
K2-23 Sloped channel - (1m)	**145023**	**145423**	310	315	335	340	47.9	48.9
K2-24 Sloped channel - (1m)	**145024**	**145424**	315	320	340	345	48.7	49.4
K2-25 Sloped channel - (1m)³	**145025**	**145425**	320	325	345	350	49.6	49.9
K2-26 Sloped channel - (1m)	**145026**	**145426**	325	330	350	355	50.4	50.4
K2-27 Sloped channel - (1m)	**145027**	**145427**	330	335	355	360	51.3	50.9
K2-28 Sloped channel - (1m)	**145028**	**145428**	335	340	360	365	52.1	51.4
K2-29 Sloped channel - (1m)	**145029**	**145429**	340	345	365	370	53.0	51.9
K2-30 Sloped channel - (1m)³	**145030**	**145430**	345	350	370	375	53.8	52.4
K2-030 Neutral channel - (1m)³	**145047**	**145447**	**350**	**350**	**375**	**375**	**53.0**	**52.4**
K2-0303 Neutral channel - (0.5m)³	**145048**	**145448**	**350**	**350**	**375**	**375**	**26.7**	**30.8**
K2-31 Sloped channel - (1m)	**145031**	**145431**	350	355	375	380	54.7	52.9
K2-32 Sloped channel - (1m)	**145032**	**145432**	355	360	380	385	55.5	53.4
K2-33 Sloped channel - (1m)	**145033**	**145433**	360	365	385	390	56.4	53.9
K2-34 Sloped channel - (1m)	**145034**	**145434**	365	370	390	395	57.2	54.4
K2-35 Sloped channel - (1m)³	**145035**	**145435**	370	375	395	400	58.1	54.9
K2-36 Sloped channel - (1m)	**145036**	**145436**	375	380	400	405	58.9	55.4
K2-37 Sloped channel - (1m)	**145037**	**145437**	380	385	405	410	59.7	55.9
K2-38 Sloped channel - (1m)	**145038**	**145438**	385	390	410	415	60.6	56.4
K2-39 Sloped channel - (1m)	**145039**	**145439**	390	395	415	420	61.4	56.9
K2-40 Sloped channel - (1m)³	**145040**	**145440**	395	400	420	425	62.3	57.4
K2-040 Neutral channel - (1m)³	**145049**	**145449**	**400**	**400**	**425**	**425**	**61.6**	**57.4**
K2-0403 Neutral channel - (0.5m)³	**145050**	**145450**	**400**	**400**	**425**	**425**	**30.8**	**34.9**
K2-902 In-line pit (0.5m)	**141819**	**141820**	-	-	843	843	68.5	30.8
Type 902 In-line plastic rubbish basket	**13999**		-	-	-	-	-	0.5
End cap	**96821**		-	-	420	420	-	0.6
Debris strainer for 100mm knockout	**93488**		-	-	-	-	-	0.1
Installation device	**97478**		-	-	-	-	-	1.8
Grate removal tool	**01318**		-	-	-	-	-	0.1

Note:
1. K200 has a galvanised steel edge rail for general use. KS200 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion resistance is required.
2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 38 to 39.
3. Preformed 100mm dia. and 150mm dia. knockouts cast on underside of these channels (00, 5, 10, 010, 0103, 15, 20, 020, 0203, 25, 30, 030, 0303, 35, 40, 040, 0403).
4. End cap can be cut down to suit all channels.
5. In-line pit details on page 37. Choose appropriate grate from pages 38 to 39.
6. Debris strainer details for 100mm dia. outlet on page 96.

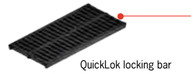
Polymer concrete in-line pits



Polymer concrete in-line pits are used either as standalone area drains or most commonly as the outlet to a trench run. They provide the highest hydraulic output and allow easy access to the pipe system for maintenance.

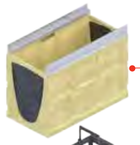
The in-line pit with the same width as the channel is visually indistinguishable along the trench run.

K2-902G/KS2-902S 200mm wide in-line pit



QuickLok locking bar

K200/KS200 Grates – choice of grates to match channel with DrainLok or QuickLok boltless locking system, see pages 38 to 39. QuickLok grates require a removable QuickLok locking bar for easy access to rubbish basket and pipework.



Top section – polymer concrete with integrally cast-in galvanised or stainless steel frame. Guides aid connection of male channel ends to channel numbers 00, 010, 020, 030, and 040. Other channels can be connected by removing wall to required height.

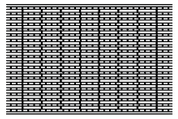
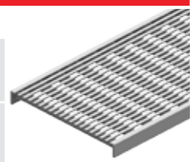
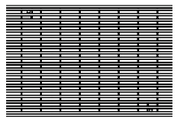
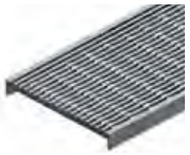
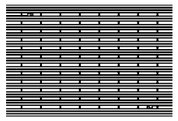
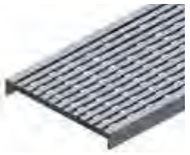
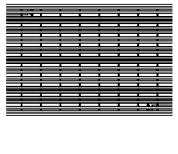
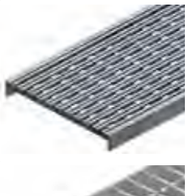
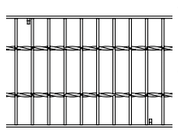
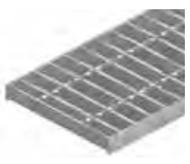
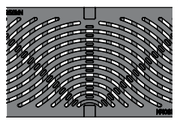
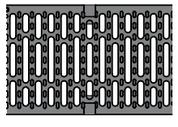
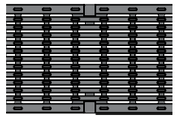
Rubbish basket – in-line pit plastic rubbish basket designed to collect debris washed from trench run. Supported in in-line pit top to avoid creation of a vacuum and reduction in outflow.

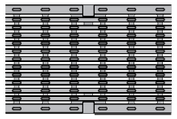
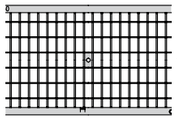
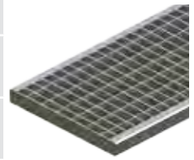
Base – polyethylene bases with wide range of cut-outs for easy pipe connection. Cut outs on end and side allow connection to stormwater pipe.

K200/KS200 In-line Pit	Part No.		Volume L*	Weight kg
	K200	KS200		
K2-902 In-line pit (0.5m)	**141819**	**141820**	68.5	30.8
Type 902 In-line plastic rubbish basket	**13999**		–	0.5

* Volume is up to grate seat and without rubbish basket.

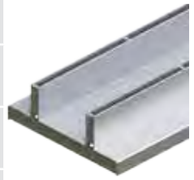
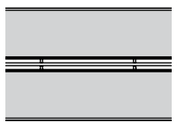
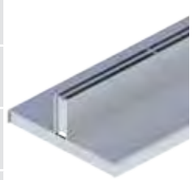
K200/KS200 Grates

	Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg						
LOAD CLASS B – AS 3996 – 80kN – approximate wheel load 2,670kg												
	Stainless Wedgewire Heelsafe® *Anti-Slip*											
	Type 647D Grade 304 stainless	**142219**	1000	6 x 40	114,950	7.5	✓	✓	✓	✓	DL	
	Type 648D Grade 304 stainless	**142220**	500	6 x 40	57,475	3.7	✓	✓	✓	✓	DL	
	Stainless 5 Star Heelsafe® *Anti-Slip*											
	Type 643D Grade 304 stainless	**142221**	1000	6 x 40	114,950	7.5	✓	✓	✓	✓	DL	
	Type 644D Grade 304 stainless	**142222**	500	6 x 40	57,475	3.7	✓	✓	✓	✓	DL	
	Stainless Twinwire Heelsafe® *Anti-Slip*											
	Type 641D Grade 304 stainless	**142558**	1000	7 x 40	84,000	9.0	✓	✓	✓	✓	DL	
	Type 642D Grade 304 stainless	**142559**	500	7 x 40	42,000	4.5	✓	✓	✓	✓	DL	
	Stainless Splitwire Heelsafe® *Anti-Slip*											
	Type 639D Grade 304 stainless	**142571**	1000	7 x 40	103,000	9.0	✓	✓	✓	✓	DL	
	Type 640D Grade 304 stainless	**142572**	500	7 x 40	51,500	4.5	✓	✓	✓	✓	DL	
	Galvanised Transverse											
	Type 607Q Galvanised	**142411**	1000	61 x 30	179,700	7.8	✗	✗	✓	✗	QL	
	Type 608Q Galvanised	**142412**	500	61 x 30	87,720	4.2	✗	✗	✓	✗	QL	
LOAD CLASS D – AS 3996 – 240kN – approximate wheel load 8,000kg												
	Iron Wave Heelsafe® *Anti-Slip*											
	Type 680D Ductile iron	**142462**	500	7	37,880	12.7	✓	✓	✓	✓	DL	
	Iron Slotted											
	Type 660D Ductile iron	**142177**	500	40 x 12	44,160	12.0	✓	✗	✓	✗	DL	
	Iron Intercept Heelsafe® *Anti-Slip*											
	Type 676D Ductile iron	**142173**	500	6 x 53	25,300	10.0	✓	✓	✓	✓	DL	

	Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg						
LOAD CLASS D – AS 3996 – 240kN – approximate wheel load 8,000kg												
	Iron Galvanised Intercept Heelsafe® *Anti-Slip*											
	Type 675D Galvanised iron	**142174**	500	6 x 53	25,300	10.0	✓	✓	✓	✓	DL	
	Steel Mesh											
	Type 605Q Galvanised	**142405**	1000	31 x 17	163,055	13.8	✗	✗	✓	✗	QL	
	Type 606Q Galvanised	**142406**	500	31 x 17	81,140	7.1	✗	✗	✓	✗	QL	
	Type 630Q Grade 304 stainless	**142407**	1000	31 x 17	163,055	13.0	✗	✗	✓	✗	QL	
	Type 631Q Grade 304 stainless	**142408**	500	31 x 17	81,140	6.6	✗	✗	✓	✗	QL	

Brickslot for K200/KS200 Channels

For more information, see page 55.

	Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg						
Approximate wheel load 8,000kg – slow moving vehicles												
	Steel Twinslot 200											
	Twinslot 200 Galvanised	**142794**	1000	10	20,000	15.9	✓	✓	✓	N/A	N/A	
		142795	500	10	10,000	8.3	✓	✓	✓	N/A	N/A	
	Twinslot 200 Grade 304 stainless	**142796**	1000	10	20,000	15.9	✓	✓	✓	N/A	N/A	
		142797	500	10	10,000	8.3	✓	✓	✓	N/A	N/A	
	Steel Double Brickslot 200											
	Double Brickslot 200 Galvanised	**142482**	1000	8 (x2)	16,000	12.7	✓	✓	✓	N/A	N/A	
		142483	500	8 (x2)	8,000	6.6	✓	✓	✓	N/A	N/A	
	Double Brickslot 200 Grade 304 stainless	**142485**	1000	8 (x2)	16,000	12.7	✓	✓	✓	N/A	N/A	
		142486	500	8 (x2)	8,000	6.6	✓	✓	✓	N/A	N/A	

Key

Compliant to AS 1428.2
Resist the penetration of a 10mm heel
Compliant to AS 3996
Rated to AS 4586
Locking Systems, DL – DrainLok, QL – QuickLok (see page 31)

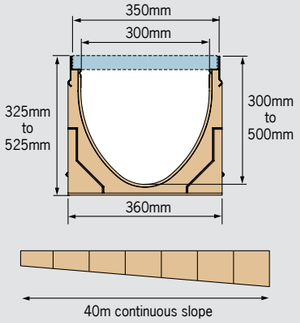
KlassikDrain K300 / KS300

K300 is a 300mm wide general purpose system with galvanised steel edge rail and a wide choice of grates in different materials and slot styles up to Load Class D (8 tonne wheel load). Grates are secured by either patented DrainLok or QuickLok boltless locking systems.

KS300 is the same system, but the edge rail is grade 304 stainless steel. KS300 should be used where excellent aesthetics are required or where increased corrosion resistance is needed.

KlassikDrain K300 / KS300

Key Dimensions



Typical Applications

- Car parks and garages
- Shopping centres
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

Selection Criteria

- Light to industrial duty loads, dependent on grate.

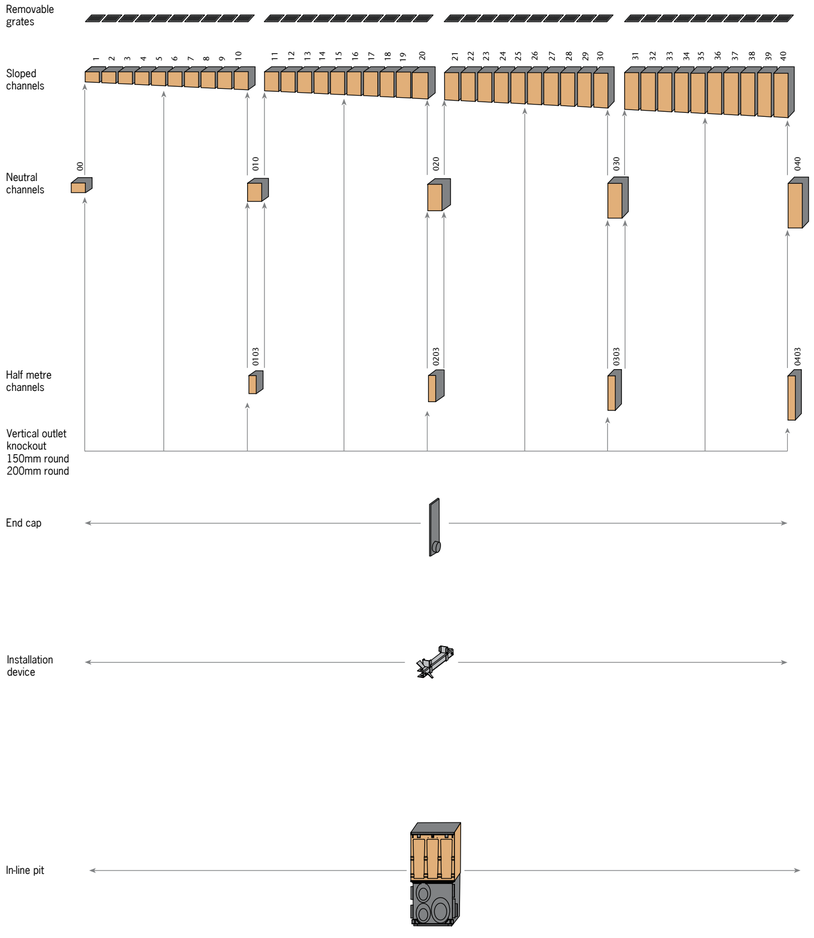
- Chemical resistant, can be used in WSUD designs.

- Multiple grate options to meet design requirements.

- Hydraulic capacity for large catchments.

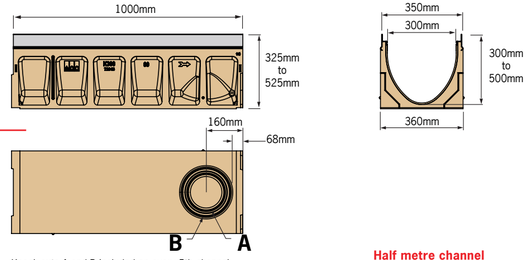
- Sloped and neutral channels available.

K300 / KS300 System layout



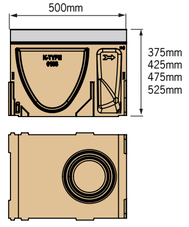
K300 / KS300 Channels and accessories

One metre channel

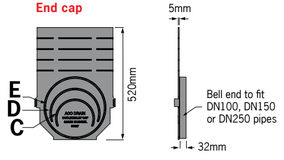


Knock-outs A and B included on every 5th channel

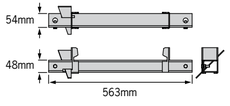
Half metre channel



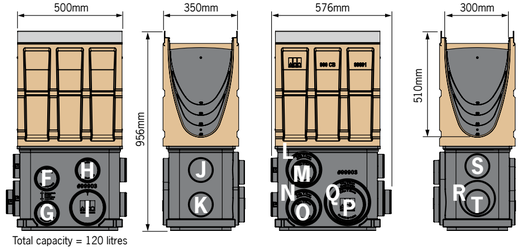
End cap



Installation device



K3-903G/KS3-903S In-line pit (without riser)



Total capacity = 120 litres

K300 / KS300 Outlet flow rates

Channel outlet flow rates

Outlet	Channels	Outlet Type	Outlet Size	Invert Depth mm	Outlet Flow Rate L/s
A	K3-00 / KS3-00	Vertical	150mm round	300	27.9
A	K3-040 / KS3-040	Vertical	150mm round	500	36.0
B	K3-00 / KS3-00	Vertical	200mm round	300	49.5
B	K3-040 / KS3-040	Vertical	200mm round	500	64.0
C	K3-00 / KS3-00	Horizontal	150mm round	300	19.7
C	K3-040 / KS3-040	Horizontal	150mm round	500	30.1
D	K3-010 / KS3-010	Horizontal	200mm round	350	35.0
D	K3-040 / KS3-040	Horizontal	200mm round	500	49.5
E	K3-020 / KS3-020	Horizontal	250mm round	400	54.7
E	K3-040 / KS3-040	Horizontal	250mm round	500	70.7

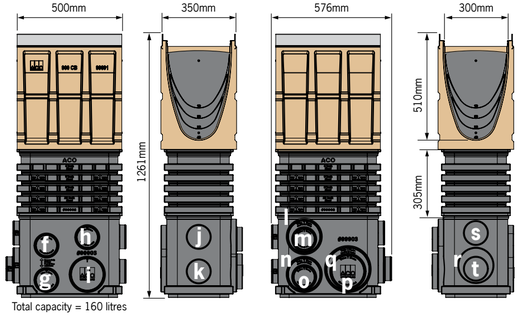
Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.

In-line pit outlet flow rates

Outlet		In-line Pit	Outlet Size	Invert Depth mm		Outlet Flow Rate L/s	
Without Riser	With Riser	Galvanised Rail / Stainless Rail	Horizontal	Without Riser	With Riser	Without Riser	With Riser
F	f	K3-903G / KS3-903S	100mm round	757	1062	18.3	23.3
G	g	K3-903G / KS3-903S	100mm round	922	1227	20.5	25.0
H	h	K3-903G / KS3-903S	100mm round	717	1022	17.8	22.9
I	i	K3-903G / KS3-903S	150mm round	922	1227	44.7	56.4
J	j	K3-903G / KS3-903S	100mm round	721	1026	17.8	22.9
K	k	K3-903G / KS3-903S	100mm round	886	1191	20.0	24.7
L	l	K3-903G / KS3-903S	150mm round	740	1045	39.1	52.0
M	m	K3-903G / KS3-903S	100mm round	726	1031	17.9	23.0
N	n	K3-903G / KS3-903S	150mm round	922	1227	44.7	56.4
O	o	K3-903G / KS3-903S	100mm round	907	1212	20.3	24.9
P	p	K3-903G / KS3-903S	150mm round	907	1212	44.3	56.0
Q	q	K3-903G / KS3-903S	200mm round	922	1227	76.9	100.2
R	r	K3-903G / KS3-903S	150mm round	883	1188	43.6	55.5
S	s	K3-903G / KS3-903S	100mm round	702	1007	17.5	22.7
T	t	K3-903G / KS3-903S	100mm round	873	1178	19.9	24.5

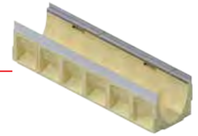
Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.
In-line pit flow rates are without rubbish basket - using rubbish basket reduces flow.

K3-903G/KS3-903S In-line pit with riser



Total capacity = 160 litres

K300 / KS300 Channels and accessories

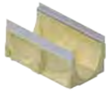


One metre channels – sloped and neutral

There are 40 sloped channels available to create 40 metres of continuous sloping run with either galvanised or stainless steel edge rail. Sloped channels have a 0.5% fall.

Neutral channels are available in five depths and can be used to create constant depth runs or inserted in sloped runs to increase the overall length.

Vertical outlet knockouts are available on all neutral channels and on number 5, 10, 15, 20, 25, 30, 35, 40 sloped channels.



Half metre channels

Half metre neutral channels in four depths, supplement one metre channels. Side knockout and profiling enable T-junction to be created.

Vertical outlet knockouts on all half metre channels. Available with either galvanised or stainless steel edge rail.

End cap

Fits all channels and manufactured from grey ABS to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. Bell end connection to DN150, DN200 and DN250 pipe.

Note: For depth 00, 1-10 channels, ACO recommends removal of unused sections of bell end to ensure adequate pavement material cover.

Installation device

Fits moulded recesses on body of channel. Provides height and joint alignment - a sliding clamp locks the two channels together. Bolt to rebar on either side of channel to hold channels in place during concrete pour.

Note: Not reusable; it is sacrificial within concrete encasement.

K3-903G/KS3-903S In-line pit

Two part in-line pit with DN100, DN150 and DN200 cut-outs for pipe connection. Optional plastic rubbish basket. Available with either galvanised or stainless steel edge rail.

Any channel can be connected to the in-line pit by removing the end wall to the correct height with a box cutter. Cut-out guides provided for connection to channels 00, 010, 020, 030 and 040. One blanking end plate supplied with in-line pit.

K3-903G/KS3-903S In-line pit with riser

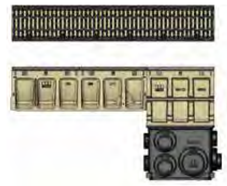
Riser adds 300mm depth and can be cut down in 50mm increments.

K300 / KS300 Parts table

Channels and Accessories	Part No.		Invert Depth mm		Overall Depth mm		Volume L	Weight kg
	K300	KS300	Female	Male	Female	Male		
K3-00 Neutral channel - (1m)³	**146041**	**146441**	**300**	**300**	**325**	**325**	**68.2**	**60.1**
K3-1 Sloped channel - (1m)	**146001**	**146401**	300	305	325	330	74.1	60.1
K3-2 Sloped channel - (1m)	**146002**	**146402**	305	310	330	335	75.7	60.7
K3-3 Sloped channel - (1m)	**146003**	**146403**	310	315	335	340	77.4	61.2
K3-4 Sloped channel - (1m)	**146004**	**146404**	315	320	340	345	79.0	61.8
K3-5 Sloped channel - (1m)³	**146005**	**146405**	320	325	345	350	80.6	62.3
K3-6 Sloped channel - (1m)	**146006**	**146406**	325	330	350	355	82.1	62.9
K3-7 Sloped channel - (1m)	**146007**	**146407**	330	335	355	360	83.7	63.4
K3-8 Sloped channel - (1m)	**146008**	**146408**	335	340	360	365	85.2	64.0
K3-9 Sloped channel - (1m)	**146009**	**146409**	340	345	365	370	86.8	64.5
K3-10 Sloped channel - (1m)³	**146010**	**146410**	345	350	370	375	88.3	65.0
K3-010 Neutral channel - (1m)³	**146043**	**146443**	**350**	**350**	**375**	**375**	**80.3**	**65.0**
K3-0103 Neutral channel - (0.5m)³	**146044**	**146444**	**350**	**350**	**375**	**375**	**40.2**	**34.2**
K3-11 Sloped channel - (1m)	**146011**	**146411**	350	355	375	380	89.8	65.6
K3-12 Sloped channel - (1m)	**146012**	**146412**	355	360	380	385	91.3	66.1
K3-13 Sloped channel - (1m)	**146013**	**146413**	360	365	385	390	92.8	66.7
K3-14 Sloped channel - (1m)	**146014**	**146414**	365	370	390	395	94.2	67.2
K3-15 Sloped channel - (1m)³	**146015**	**146415**	370	375	395	400	95.7	67.8
K3-16 Sloped channel - (1m)	**146016**	**146416**	375	380	400	405	97.2	68.3
K3-17 Sloped channel - (1m)	**146017**	**146417**	380	385	405	410	98.6	68.9
K3-18 Sloped channel - (1m)	**146018**	**146418**	385	390	410	415	100.1	69.4
K3-19 Sloped channel - (1m)	**146019**	**146419**	390	395	415	420	101.6	69.9
K3-20 Sloped channel - (1m)³	**146020**	**146420**	395	400	420	425	103.0	70.5
K3-020 Neutral channel - (1m)³	**146045**	**146445**	**400**	**400**	**425**	**425**	**92.9**	**70.5**
K3-0203 Neutral channel - (0.5m)³	**146046**	**146446**	**400**	**400**	**425**	**425**	**46.4**	**37.3**
K3-21 Sloped channel - (1m)	**146021**	**146421**	400	405	425	430	104.4	71.1
K3-22 Sloped channel - (1m)	**146022**	**146422**	405	410	430	435	105.9	71.6
K3-23 Sloped channel - (1m)	**146023**	**146423**	410	415	435	440	107.3	72.2
K3-24 Sloped channel - (1m)	**146024**	**146424**	415	420	440	445	108.7	72.7
K3-25 Sloped channel - (1m)³	**146025**	**146425**	420	425	445	450	110.1	73.3
K3-26 Sloped channel - (1m)	**146026**	**146426**	425	430	450	455	111.6	73.8
K3-27 Sloped channel - (1m)	**146027**	**146427**	430	435	455	460	113.0	74.3
K3-28 Sloped channel - (1m)	**146028**	**146428**	435	440	460	465	114.4	74.9
K3-29 Sloped channel - (1m)	**146029**	**146429**	440	445	465	470	115.8	75.4
K3-30 Sloped channel - (1m)³	**146030**	**146430**	445	450	470	475	117.2	76.0
K3-030 Neutral channel - (1m)³	**146047**	**146447**	**450**	**450**	**475**	**475**	**105.5**	**76.0**
K3-0303 Neutral channel - (0.5m)³	**146048**	**146448**	**450**	**450**	**475**	**475**	**52.8**	**40.6**
K3-31 Sloped channel - (1m)	**146031**	**146431**	450	455	475	480	118.6	76.5
K3-32 Sloped channel - (1m)	**146032**	**146432**	455	460	480	485	120.0	77.1
K3-33 Sloped channel - (1m)	**146033**	**146433**	460	465	485	490	121.4	77.6
K3-34 Sloped channel - (1m)	**146034**	**146434**	465	470	490	495	122.7	78.2
K3-35 Sloped channel - (1m)³	**146035**	**146435**	470	475	495	500	124.1	78.7
K3-36 Sloped channel - (1m)	**146036**	**146436**	475	480	500	505	125.5	79.2
K3-37 Sloped channel - (1m)	**146037**	**146437**	480	485	505	510	126.9	79.8
K3-38 Sloped channel - (1m)	**146038**	**146438**	485	490	510	515	128.2	80.3
K3-39 Sloped channel - (1m)	**146039**	**146439**	490	495	515	520	129.7	80.9
K3-40 Sloped channel - (1m)³	**146040**	**146440**	495	500	520	525	131.0	81.4
K3-040 Neutral channel - (1m)³	**146049**	**146449**	**500**	**500**	**525**	**525**	**118.3**	**81.4**
K3-0403 Neutral channel - (0.5m)³	**146050**	**146450**	**500**	**500**	**525**	**525**	**59.2**	**44.3**
K3-903 In-line pit (0.5m)	**141821**	**141822**	-	-	956	956	115.1	39.9
Type 903 In-line plastic rubbish basket	**98653**		-	-	-	-	-	1.6
Optional plastic riser	**141729**		-	-	300	300	44.9	4.5
Plastic rubbish basket - long	**98665**		-	-	-	-	-	1.8
End cap	**96826**		-	-	520	520	-	1.1
Installation device	**97479**		-	-	-	-	-	2.2
Grate removal tool	**01318**		-	-	-	-	-	0.1

Note:
1. K300 has a galvanised steel edge rail for general use. KS300 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion resistance is required.
2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 46 to 47.
3. Preformed 150mm dia. and 200mm dia. knockouts cast on underside of these channels (00, 5, 10, 010, 0103, 15, 20, 020, 0203, 25, 30, 030, 0303, 35, 40, 040, 0403).
4. End cap can be cut down to suit all channels.
5. In-line pit details on page 45. Choose appropriate grate from pages 46 to 47.

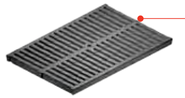
Polymer concrete in-line pits



Polymer concrete in-line pits are used either as standalone area drains or most commonly as the outlet to a trench run. They provide the highest hydraulic output and allow easy access to the pipe system for maintenance.

The in-line pit with the same width as the channel is visually indistinguishable along the trench run.

K3-903G/KS3-903S 300mm wide in-line pit



QuickLok locking bar

K300/KS300 Grates – choice of grates to match channel with DrainLok or QuickLok boltless locking system, see page 46 to 47. QuickLok grates require a removable QuickLok locking bar for easy access to rubbish basket and pipework.

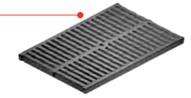
Top section – polymer concrete with integrally cast-in galvanised or stainless steel frame. Guides aid connection of male channel ends to channel numbers 00, 010, 020, 030, and 040. Other channels can be connected by removing wall to required height.

Rubbish basket – in-line pit plastic rubbish basket designed to collect debris washed from trench run. Supported at the top of in-line pit top to avoid a vacuum and reduction in outflow.

Riser – polyethylene riser is designed to provide additional depth and hydraulic output. Guides enable cutting to size at 50mm intervals (50mm minimum and 305mm maximum height).

Base – polyethylene bases with wide range of cut-outs for easy pipe connection. Cut outs on end and side allow connection to stormwater pipe.

K3-903G/KS3-903S with riser 300mm wide in-line pit

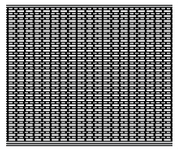
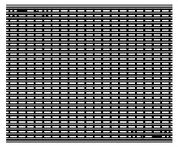
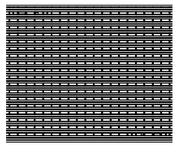
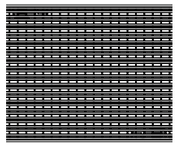
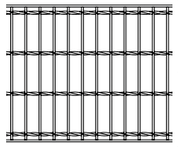


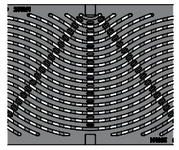
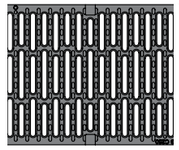
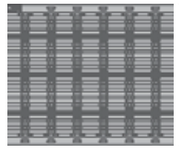
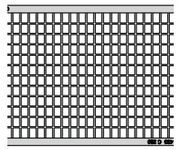
QuickLok locking bar

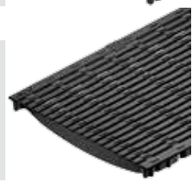
K300/KS300 In-line Pit	Part No.		Volume L*	Weight kg
	K300	KS300		
K3-903 In-line pit (0.5m)	**141821**	**141822**	115.1	39.9
Type 903 In-line plastic rubbish basket	**98653**		–	1.6
Optional plastic riser	**141729**		44.9	4.5
Plastic rubbish basket – long	**98665**		–	1.8

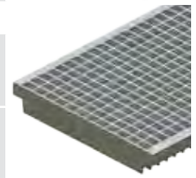
* Volume is up to grate seat and without rubbish basket.

K300/KS300 Grates

	Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg					
LOAD CLASS B – AS 3996 – 80kN – approximate wheel load 2,670kg											
Stainless Wedgewire Heelsafe® *Anti-Slip*											
	Type 847D Grade 304 stainless	**142223**	1000	6 x 19	169,775	12.5	✓	✓	✓	✓	DL
	Type 848D Grade 304 stainless	**142224**	500	6 x 19	84,890	6.2	✓	✓	✓	✓	DL
Stainless 5 Star Heelsafe® *Anti-Slip*											
	Type 843D Grade 304 stainless	**142225**	1000	6 x 19	169,775	12.5	✓	✓	✓	✓	DL
	Type 844D Grade 304 stainless	**142226**	500	6 x 19	84,890	6.2	✓	✓	✓	✓	DL
Stainless Twinwire Heelsafe® *Anti-Slip*											
	Type 841D Grade 304 stainless	**142560**	1000	6 x 19	108,000	15.1	✓	✓	✓	✓	DL
	Type 842D Grade 304 stainless	**142561**	500	6 x 19	54,000	7.6	✓	✓	✓	✓	DL
Stainless Splitwire Heelsafe® *Anti-Slip*											
	Type 839D Grade 304 stainless	**142573**	1000	7 x 19	153,000	15.1	✓	✓	✓	✓	DL
	Type 840D Grade 304 stainless	**142574**	500	7 x 19	76,500	7.6	✓	✓	✓	✓	DL
Galvanised Transverse											
	Type 807Q Galvanised	**142413**	1000	94 x 30	254,415	12.4	✗	✗	✓	✗	QL
	Type 808Q Galvanised	**142414**	500	94 x 30	124,595	6.3	✗	✗	✓	✗	QL

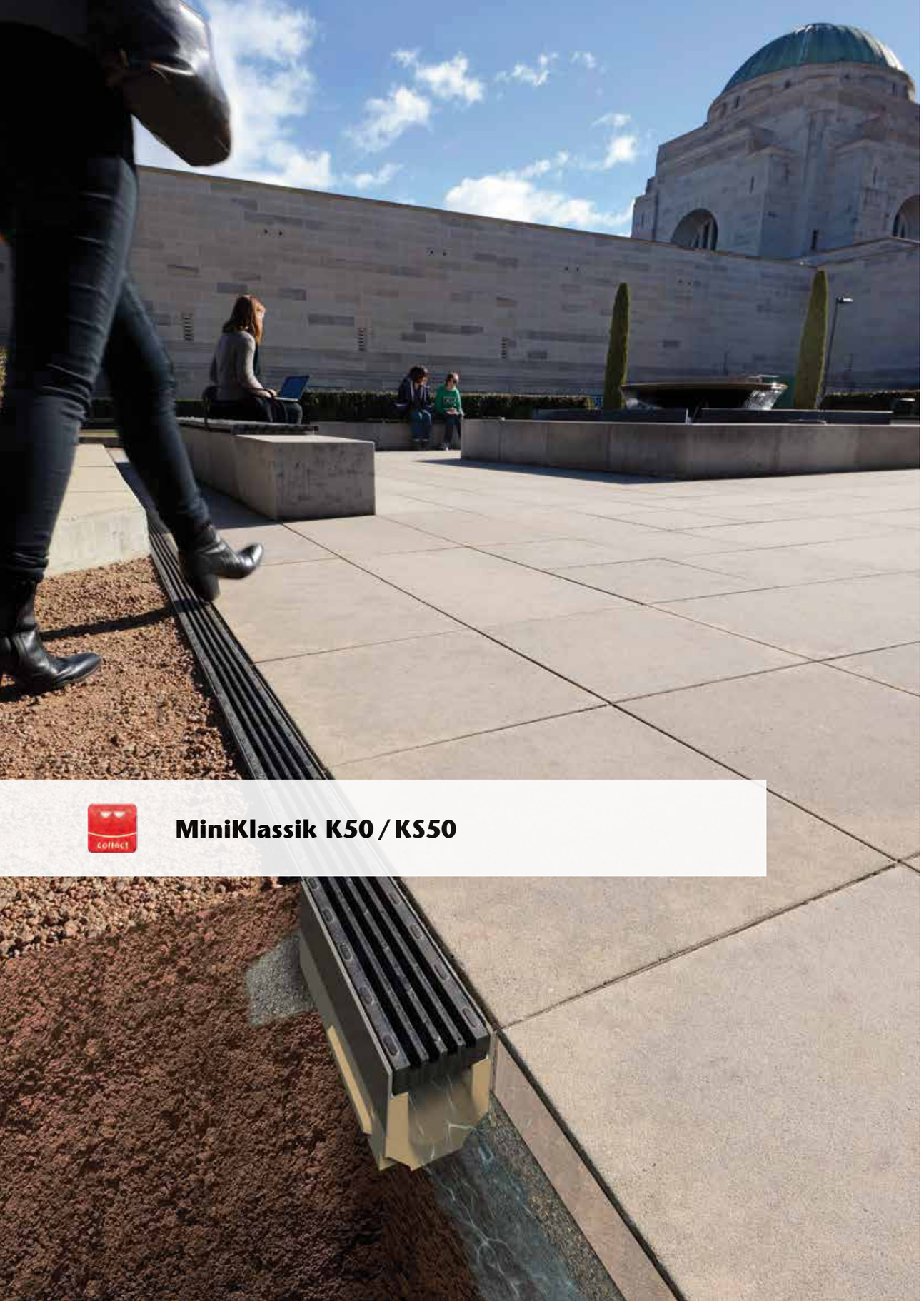
	Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg					
LOAD CLASS D – AS 3996 – 240kN – approximate wheel load 8,000kg											
Iron Wave Heelsafe® *Anti-Slip*											
	Type 880D Ductile iron	**142463**	500	7	50,170	21.8	✓	✓	✓	✓	DL
Iron Slotted											
	Type 860D Ductile iron	**13870**	500	91 x 12	67,160	19.0	✓	✗	✓	✗	DL
Iron Intercept Heelsafe® *Anti-Slip*											
	Type 876D Ductile iron	**142175**	500	6 x 53	35,100	15.9	✓	✓	✓	✓	DL
Iron Galvanised Intercept Heelsafe® *Anti-Slip*											
	Type 875D Galvanised iron	**142176**	500	6 x 53	35,100	15.9	✓	✓	✓	✓	DL
Steel Mesh											
	Type 805Q Galvanised	**142409**	500	30 x 16	110,911	12.7	✗	✗	✓	✗	QL
	Type 830Q Grade 304 stainless	**142410**	500	30 x 16	110,911	15.1	✗	✗	✓	✗	QL



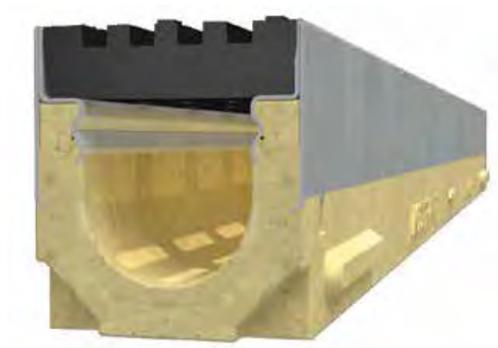


Key

- Compliant to AS 1428.2
- Resist the penetration of a 10mm heel
- Compliant to AS 3996
- Rated to AS 4586
- Locking Systems, DL – DrainLok, QL – QuickLok (see page 31)



MiniKlassik K50 / KS50



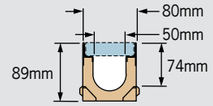
K50 is a 50mm wide compact trench drainage system with galvanised steel edge rail for high profile small-scale projects where a discreet barrier is required to separate wet and dry areas.

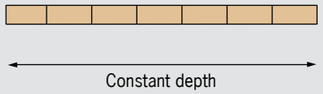
KS50 is the same system, but the edge rail is grade 304 stainless steel. KS50 should be used where excellent aesthetics are required or where increased corrosion resistance is needed.

A choice of **Heelsafe®** *Anti-Slip* grates are available in stainless steel and ductile iron. Grates are secured by the patented DrainLok barless and boltless locking system.

MiniKlassik K50 / KS50

Key Dimensions





Typical Applications

- Courtyards
- Balconies
- Footpaths
- Thresholds

Selection Criteria

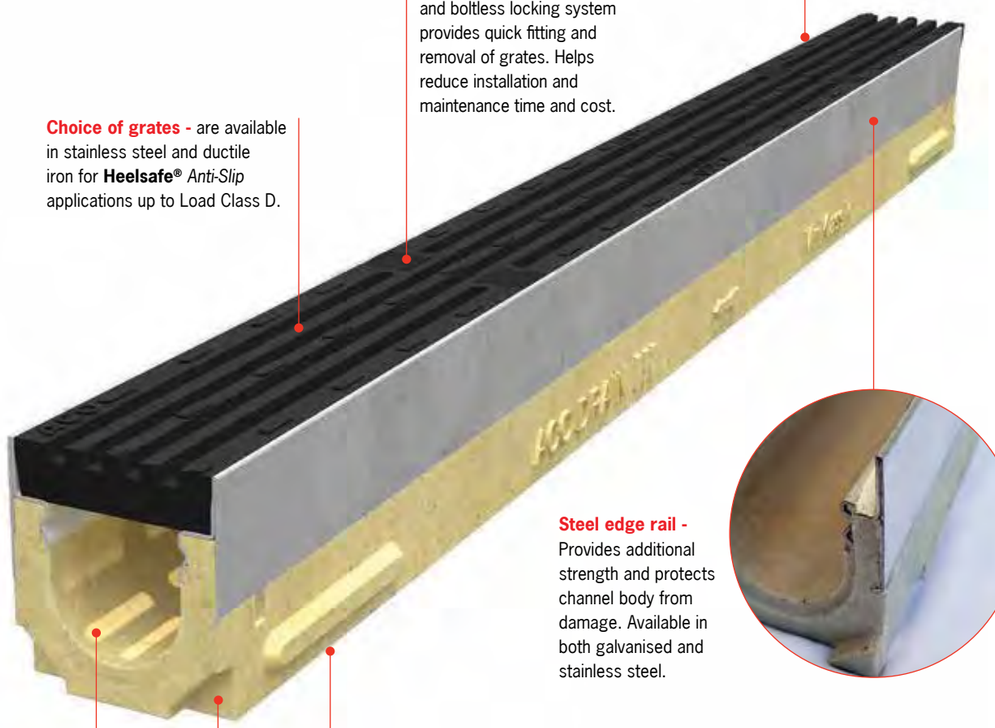
- Light to commercial loads, dependent on grate.
- Chemical resistant.
- Multiple grate options to meet design requirements.
- Hydraulic capacity for very small catchments.
- Neutral channels available.

MiniKlassik Features

Anti-shunt lugs - protrusions in grate fit into recesses on the edge rail to prevent longitudinal movement.

DrainLok - patented, barless and boltless locking system provides quick fitting and removal of grates. Helps reduce installation and maintenance time and cost.

Choice of grates - are available in stainless steel and ductile iron for **Heelsafe®** *Anti-Slip* applications up to Load Class D.



Steel edge rail - Provides additional strength and protects channel body from damage. Available in both galvanised and stainless steel.

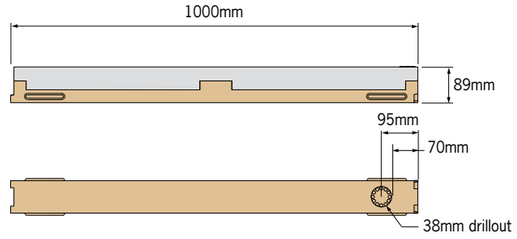
50mm internal width trench system - metre long channels with 'U' shaped bottom improves flow hydraulics.

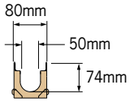
Preformed 38mm drill-out - allows vertical outlet connection at male end or core a hole through the base of the channel at any point along the run.

Interconnecting end profiles - allow easy and effective joining of channels. Appropriate sealant can be used to create sealed joint.

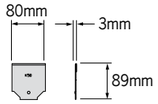
K50 / KS50 Channels and accessories

One metre channel





End Cap

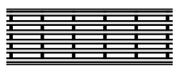
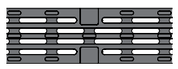


K50 / KS50 Parts table

Channels and Accessories	Part No.		Invert Depth mm		Overall Depth mm		Volume L	Weight kg
	K50	KS50	Female	Male	Female	Male		
K50 Neutral channel - (1m)	**04071**	**06750**	**74**	**74**	**89**	**89**	**2.4**	**8.2**
K50 End cap	**95403**		-	-	89	89	-	0.1

Note:
1. Preformed 38mm diameter drill-out to underside of channel provides a flow rate of 0.89 L/s.
2. MiniKlassik does not fit with any ACO pit. Discharge is via vertical outlet only.

K50 / KS50 Grates

	Description	Part No.	Length mm	Slot Size mm	Intake Area mm	Weight kg						
LOAD CLASS B – AS 3996 – 80kN – approximate wheel load 2,670kg												
	Stainless 5 Star Heelsafe® *Anti-Slip*											
	Type 243D Grade 304 stainless	**142227**	1000	6 x 38	33,600	2.3	✓	✓	✓	✓	DL	
LOAD CLASS D – AS 3996 – 240kN – approximate wheel load 8,000kg												
	Iron Intercept Heelsafe® *Anti-Slip*											
	Type 276D Ductile iron	**138107**	500	7 x 37	11,225	3.3	✓	✓	✓	✓	DL	

Key

Compliant to AS 1428.2

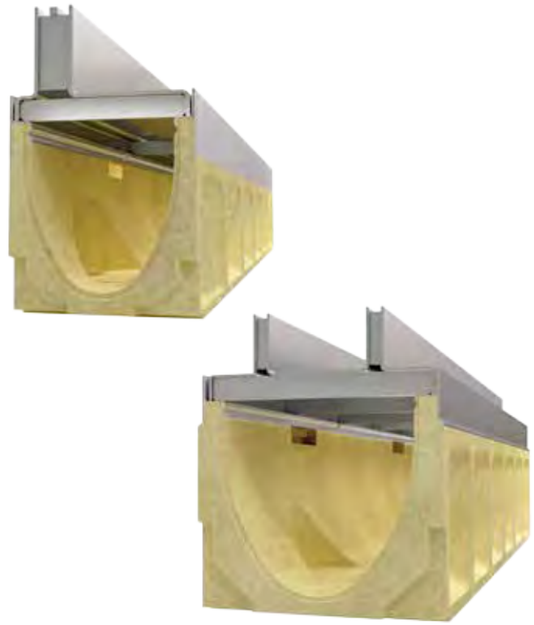
Resist the penetration of a 10mm heel

Compliant to AS 3996

Rated to AS 4586

Locking Systems, DL – DrainLok (see page 31)

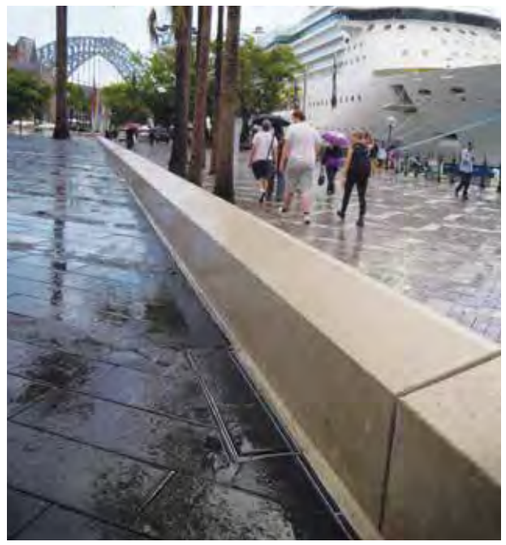
Brickslot 100 / 200



Brickslot is a discreet drainage solution for use with brick or stone pavers up to a depth of 60mm. The slots blend in with the paving joints providing an aesthetic solution.

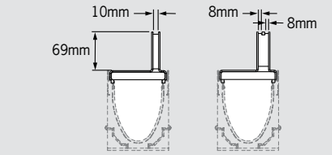
Brickslot 100 has a single offset slot or a double slot option. Brickslot 200 provides increased capacity. It is available with two single slots spaced 106mm apart or a central double slot.

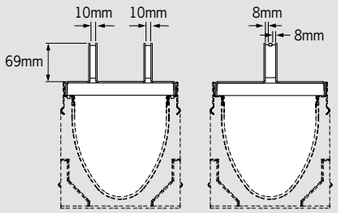
Brickslot is available in both galvanised and stainless steel. Stainless steel Brickslot is suitable for high profile installations or areas where increased corrosion resistance is required.

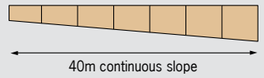


Brickslot 100 / 200

Key Dimensions







Typical Applications

- Aesthetic areas
- Pedestrian areas
- Public domains
- Paved areas

Selection Criteria

- Light to commercial loads, up to 8 tonne wheel load for slow moving traffic.
- Chemical resistant, can be used in WSUD designs.
- Multiple grate options to meet design requirements.
- Hydraulic capacity for small catchments.
- Sloped and neutral channels available.

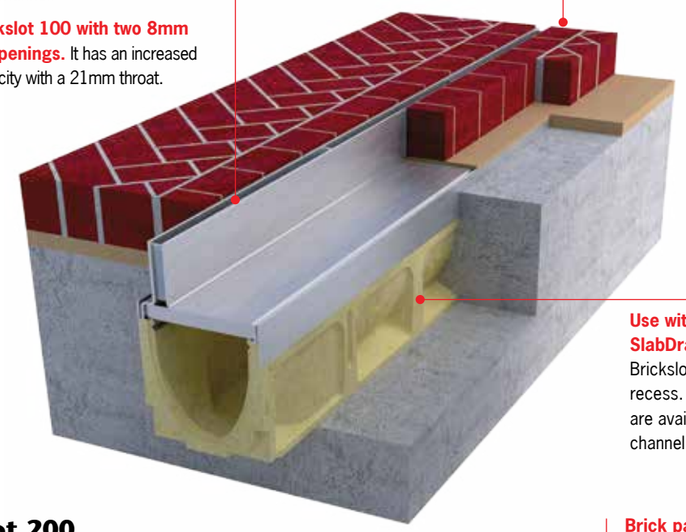
Brickslot Features

Brickslot 100

Brickslot 100 with 10mm slot. It is easy to clean and allows for continuous water flow into the channel.

Double Brickslot 100 with two 8mm flared slot openings. It has an increased drainage capacity with a 21mm throat.

Brick pavers fit directly against slot. The first paver course adjacent to the channel and the pavers on top of the Brickslot should be set on mortar. Designed for 60mm high pavers including 10mm bedding.



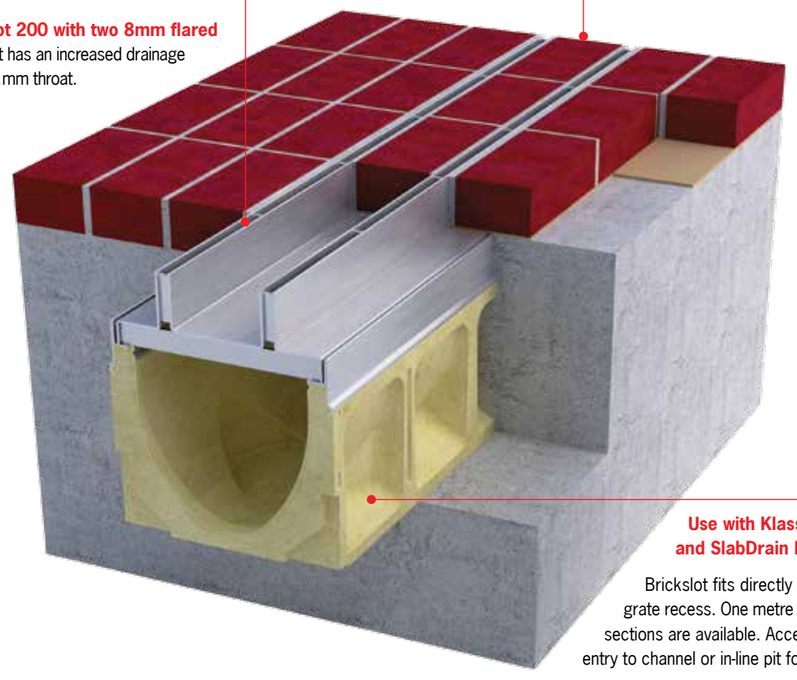
Use with KlassikDrain K100 and SlabDrain H100K channels.
Brickslot fits directly into the channel grate recess. One metre and half metre sections are available. Access units enable entry to channel or in-line pit for maintenance.

Brickslot 200

Twinslot 200 with two parallel 10mm slots. It is easy to clean and allows for continuous water flow into the channel.

Double Brickslot 200 with two 8mm flared slot openings. It has an increased drainage capacity with a 21mm throat.

Brick pavers fit between slots and against slots. The first paver course adjacent to the channel and the pavers on top of the Brickslot should be set on mortar. Designed for 60mm high pavers including 10mm bedding.



Use with KlassikDrain K200 and SlabDrain H200K channels.
Brickslot fits directly into the channel grate recess. One metre and half metre sections are available. Access units enable entry to channel or in-line pit for maintenance.

Brickslot 100 Parts table

For K100 channels and in-line pits, see page 26.

Description	Part No.	Invert mm	Weight kg	♿	👟	🚲
Approximate wheel load 8,000kg – slow moving vehicles						
Brickslot 100						
Galvanised Brickslot 100 (1m)	**142790**#	Channel invert + 69	7.8	✓	✓	✓
Galvanised Brickslot 100 (0.5m)	**142791**#	Channel invert + 69	3.9			
Galvanised Brickslot 100 access unit (0.5m)	**142466**	Channel invert + 69	7.4			
Stainless Brickslot 100 (1m) *	**142792**#	Channel invert + 69	7.8			
Stainless Brickslot 100 (0.5m) *	**142793**#	Channel invert + 69	3.9			
Stainless Brickslot 100 access unit (0.5m) *	**142469**	Channel invert + 69	7.4			

* Grade 304 stainless steel. #One plastic connector clip included. Intake area of 10,000mm² for 1m length.

Description	Part No.	Invert mm	Weight kg	♿	👟	🚲
Double Brickslot 100						
Galvanised Double Brickslot 100 (1m)	**142470**	Channel invert + 69	8.2	✓	✓	✓
Galvanised Double Brickslot 100 (0.5m)	**142471**	Channel invert + 69	4.1			
Galvanised Double Brickslot 100 access unit (0.5m)	**142472**	Channel invert + 69	7.7			
Stainless Double Brickslot 100 (1m) *	**142473**	Channel invert + 69	8.2			
Stainless Double Brickslot 100 (0.5m) *	**142474**	Channel invert + 69	4.1			
Stainless Double Brickslot 100 access unit (0.5m) *	**142475**	Channel invert + 69	7.7			

* Grade 304 stainless steel. Intake area of 16,000mm² for 1m length.

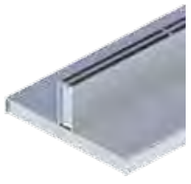
Brickslot 200 Parts table

For K200 channels and in-line pits, see page 36.

Description	Part No.	Invert mm	Weight kg	♿	👟	🚲
Approximate wheel load 8,000kg – slow moving vehicles						
Twinslot 200						
Galvanised Twinslot 200 (1m)	**142794** #	Channel invert + 69	15.9	✓	✓	✓
Galvanised Twinslot 200 (0.5m)	**142795** #	Channel invert + 69	8.3			
Galvanised Twinslot 200 access unit (0.5m)	**142478**	Channel invert + 69	14.7			
Stainless Twinslot 200 (1m) *	**142796** #	Channel invert + 69	15.9			
Stainless Twinslot 200 (0.5m) *	**142797** #	Channel invert + 69	8.3			
Stainless Twinslot 200 access unit (0.5m) *	**142481**	Channel invert + 69	14.7			

* Grade 304 stainless steel. #Two plastic connector clip included. Intake area of 20,000mm² for 1m length.

Description	Part No.	Invert mm	Weight kg	♿	👟	🚲
Double Brickslot 200						
Galvanised Double Brickslot 200 (1m)	**142482**	Channel invert + 69	12.7	✓	✓	✓
Galvanised Double Brickslot 200 (0.5m)	**142483**	Channel invert + 69	6.6			
Galvanised Double Brickslot 200 access unit (0.5m)	**142484**	Channel invert + 69	13.2			
Stainless Double Brickslot 200 (1m) *	**142485**	Channel invert + 69	12.7			
Stainless Double Brickslot 200 (0.5m) *	**142486**	Channel invert + 69	6.6			
Stainless Double Brickslot 200 access unit (0.5m) *	**142487**	Channel invert + 69	13.2			



* Grade 304 stainless steel. Intake area of 16,000mm² for 1m length.

Note:

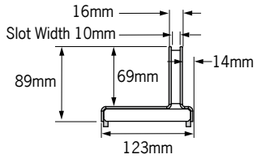
1. For K100 channels and in-line pit information see page 26. For K200 channels and in-line pit information see page 36.
2. Brickslot can also be used with SlabDrain H100K and H200K channels. See page 97.
3. Access unit can be used on channels or in-line pit.
4. Only the access cover can be removed once Brickslot has been installed. Two grate removal tools (Part No. 01318) are required.
5. For custom slot widths and heights contact ACO.

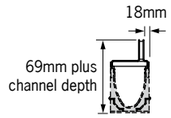
Key

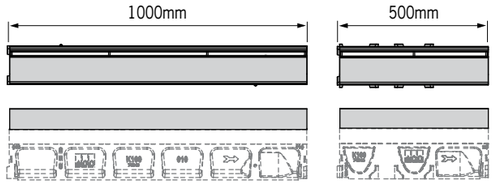
♿ Compliant to AS 1428.2 — 👟 Resist the penetration of a 10mm heel — 🚲 Compliant to AS 3996

Brickslot

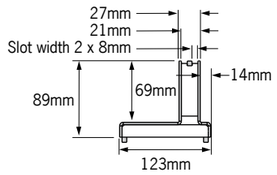
Brickslot 100

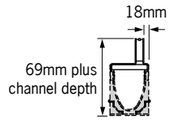


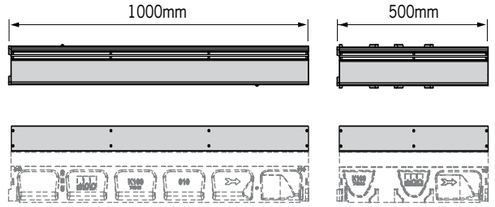




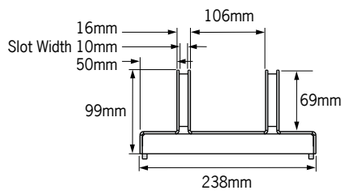
Double Brickslot 100

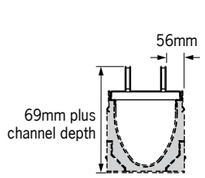


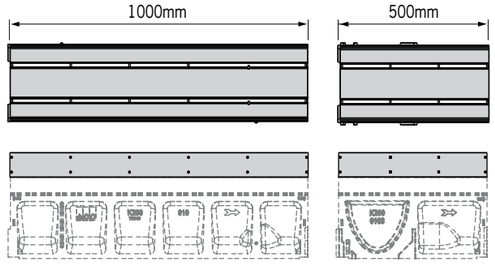




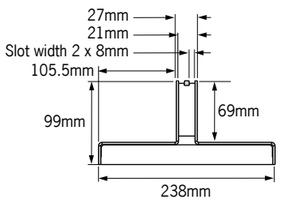
Twinslot 200

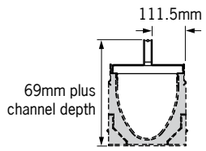


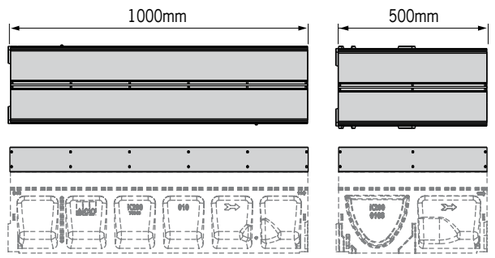




Double Brickslot 200

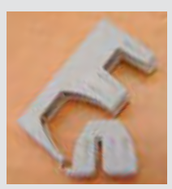






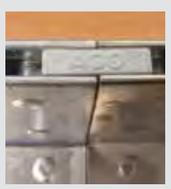
Plastic Connector Clip

Plastic connector clip, Part No. 11143 is compatible with Brickslot 100 (1 per joint) and Twinslot 200 (2 per joint). Connector clip is **not compatible** with Double Brickslot 100 and 200.



The connector clip is used to align the slot joint to ensure straightness.

The smaller, bottom part push-fits over the thin bar inside the slot at the end of the frame.



Rotate the top part over the slot joint and push the clip in until it is flush with the top of the slot.

Access for inspection and maintenance

Access units provide entry for inspection and maintenance through a removable access cover. Typically they are used above an in-line pit, at the start of the run and at the end of the run.

Access units can also be used in long channel runs to provide additional access at 20 to 30 metre intervals. Access units have the same discreet drainage slot.

A pair of grate removal tools is required to remove the cover from the access unit. Grate removal tool – Part No. 01318.

Brickslot with channel

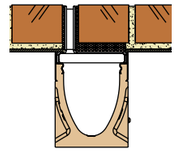
Access unit with channel

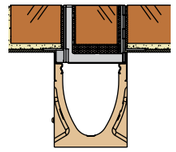
Use at the start of the run and where the bottom or end outlet is used for maintenance.

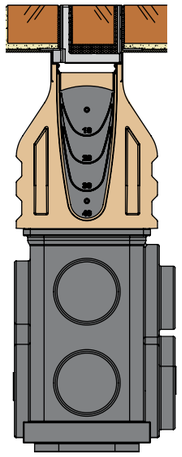
Access unit with in-line pit

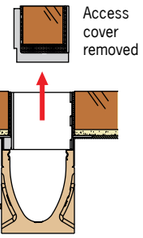
Provides access to rubbish basket and outlet pipes for maintenance.

Brickslot 100

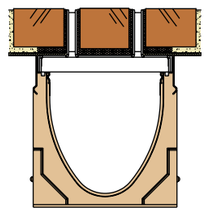


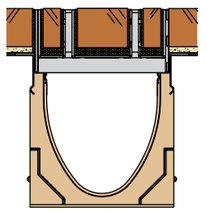


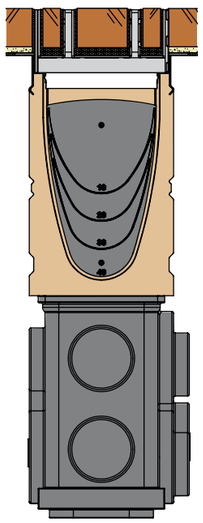


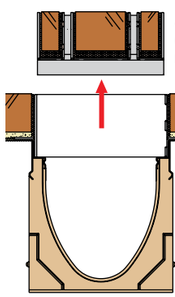


Twinslot 200









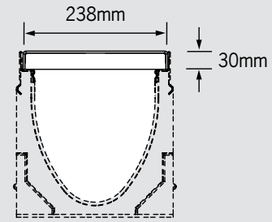
EcoPanel

EcoPanel is a stormwater trench drain cover constructed from permeable UV stable resin-bonded aggregate in a galvanised steel frame. The unique combination of a durable load bearing surface enclosed in an engineered frame allows for water infiltration under medium duty traffic.

EcoPanel linear permeable paver covers are installed into ACO's KlassikDrain K200 (200mm width) channels.

EcoPanel is a unique and decorative drainage solution that can be used as a design element to create distinctive urban landscapes.

Key Dimensions



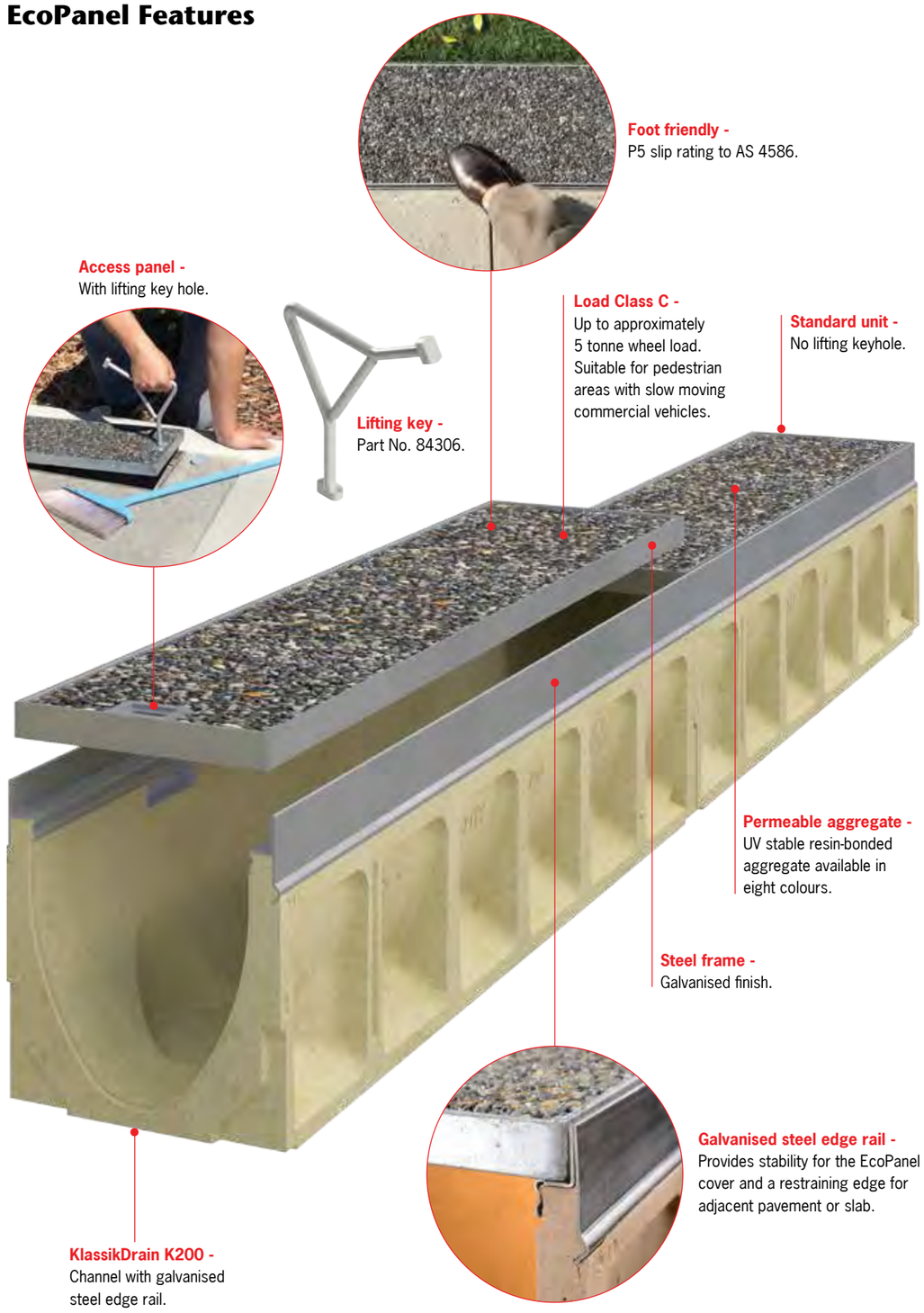
Typical Applications

- Parks
- Playgrounds
- Public domains
- Shopping centres
- Pedestrian malls
- Car parks
- Cycleways

Selection Criteria

- Light to commercial loads.
- Chemical resistant, can be used in WSUD designs.
- Multiple grate options to meet design requirements.
- Hydraulic capacity for medium catchments.
- Sloped and neutral channels available.

EcoPanel Features



Parts table

EcoPanel Colour		Part Numbers	
	Black granite	Standard unit	**142742**
		Access panel	**142743**
	Blue marble	Standard unit	**142744**
		Access panel	**142745**
	Silver marble	Standard unit	**142746**
		Access panel	**142747**
	Starlight granite	Standard unit	**142748**
		Access panel	**142749**
	Sand marble	Standard unit	**142750**
		Access panel	**142751**
	Grey marble	Standard unit	**142754**
		Access panel	**142755**

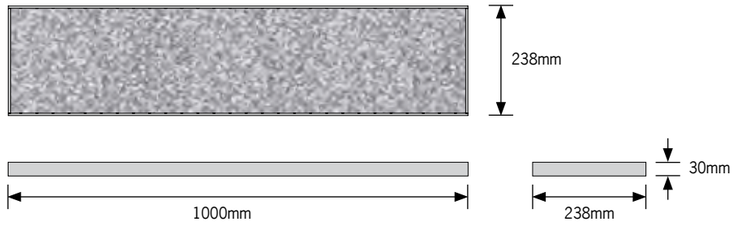
Porous Aggregate
Water permeates through the EcoPanel to the channel below.

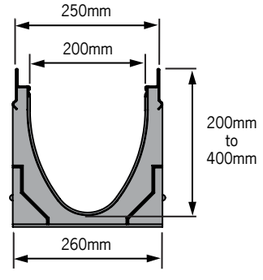
Hydraulically Tested
Water Research Laboratory
at UNSW Sydney.

Note:

1. EcoPanel is used with KlassikDrain K200 channels only, see page 36.
2. Approximate weight of EcoPanel is 23kg.
3. Lifting key for access panel, Part No. 84306.

EcoPanel standard unit





KlassikDrain K200 cross-section