

KlassikDrain features

Wide choice of grates - In various materials and styles (including ADA compliant) for applications from Load Class A to Load Class E. See next page for more details.



encasement).

Channel identification -Channels feature numbering on sidewalls and base of channel (to allow easy identification after concrete



K100 4" internal width

Direction arrows - Cast on

side of channel indicate flow

direction and ensure channels

are installed correctly.

Brickslot 100 & 200 - A discreet drainage solution for use with brick or stone pavers. Available as standard, Heel Resistant and Twinslot versions. See page 58

> **Profiled side walls - Strengthening** pillars and frost keys provide channel body strength and mechanical keying to surrounding concrete.

Shipping gipple/groove -

Polymer concrete - A

durable, yet lightweight

polyester a resin binder

aggregates and fillers. It

provides up to four times

the compressive strength

of cement concrete.

reinforced by mineral

material made from

Side interlocking feature ensures safer stacking of channels on pallets for shipping and minimizes breakage.

Interconnecting end profiles -

Allow easy and effective joining of channels. Appropriate sealant can be used to create a sealed



K300 12" internal width

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Each end of the channel indicates the number of the channel that will connect to it.



QuickLok™ & DrainLok™ - Patented, boltless

locking systems provide quick fitting and removal

of grates. Helps reduce installation/maintenance

time and cost.

Anti-shunt lugs -

Protrusions in grate fit into recesses on the edge rail to prevent longitudinal movement.

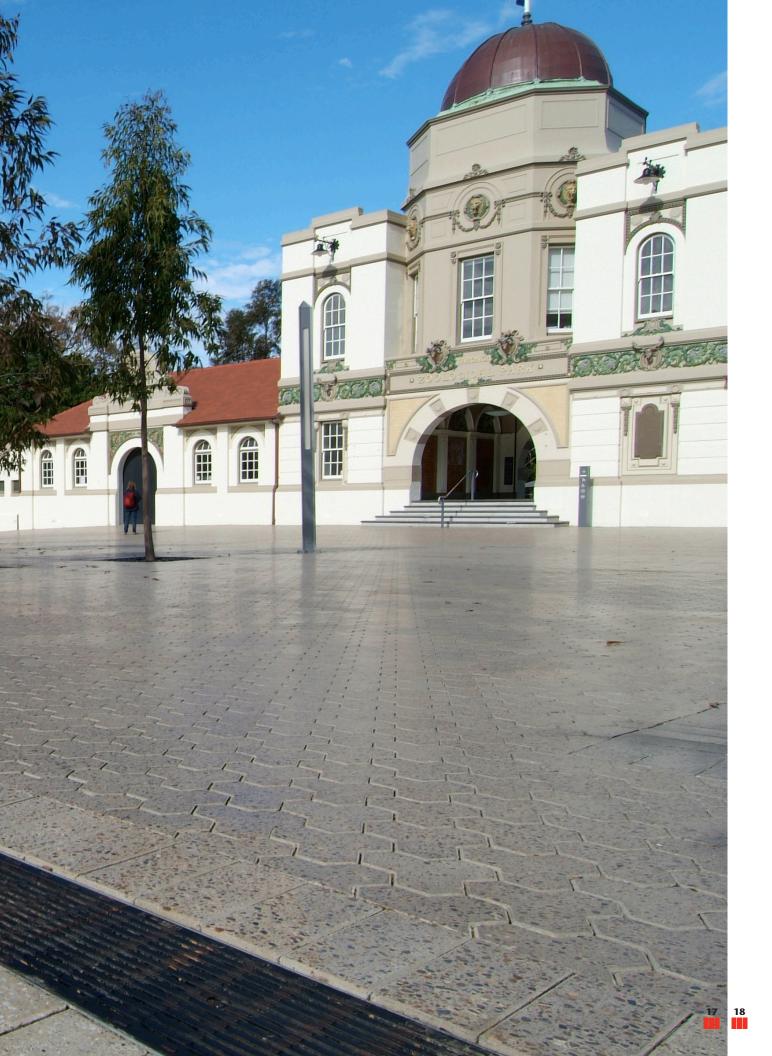


Sloped (0.5%) channel units - Meter long units provide 131'-3" continuous slope - equates to 1/17" fall per linear foot. Constant depth units can be used to

extend run lengths.

See page 136 for material properties. MiniKlassik K50 - A 2" internal width, constant depth system for high profile, aesthetic applications where a barrier is required to separate wet and dry areas.

See page 54.



Grate selection

A drainage grate's primary function is to let surface water enter the drainage system and allow efficient removal of excess water.

These grates have to remove the quantity of water specified and be strong enough to withstand traffic without collapsing.

Design criteria for grate

- Water intake capacity
- Loading
- Material durability & aesthetics
- Slot style
- Legal requirements
 - ADA compliance
 - Slip resistance - Heel and bicycle safety
- Locking

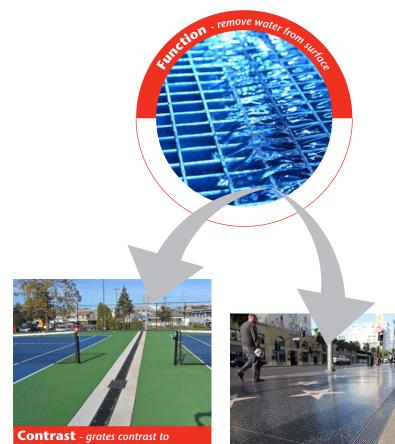
In recent years, the visual importance of these drainage systems has become more prominent.

As the global leader, ACO has introduced many different sized patterns and materials, including discreet drainage concepts such as Brickslot.

The newest innovation is Freestyle - An easy and cost effective way to design your own iron grate.

ACO now offers a surface and grate Visualizer; an online tool that offers designers the chance to visualize each ACO Drain grate in a number of different pavements.

Choosing grates for trench drainage







urrounding surface



Aesthetics - grates are a design



Standard grates

ACO Drain provides a wide selection of standard grates for all sizes and types of channels. These offer the most economic option and encompass popular styles and materials. Details can be found on:

Page 30 - K100 grates

Page 42 - K200 grates

Page 52 - K300 grates

Page 57 - K50 grates

Page 74 - S100K grates Page 84 - S200K grates

Page 94 - S300K grates

Page 122 - FG200 grates



Freestyle grates

ACO offers a semi-custom option with the opportunity to design the top surface look of an iron grate to complement your project design. See page 20 for full details.



Exotic grate solutions

On rare occasions the grate design and/or material becomes a focal point. For these projects ACO can fully customize materials and/or finishes of grates to suit client requirements.

ACO DRAIN

Freestyle grates

Architectural features such as entrances, promenades, courtyards and landscaped areas, whether public or private, can all have their appearance significantly enhanced through the creative use of ACO Freestyle grates.

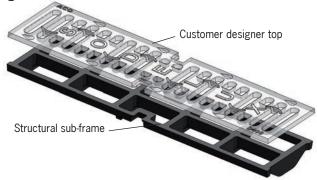
Flexible production tools with ACO's own foundries make it possible to create unique grate designs for projects with a custom surface design on a standard KlassikDrain DrainLokTM grate.

The two part tool consists of a standard lower part to provide the structural support of the grate and a customizable top part where the designers unique designs can be created.

A minimum order of 400 grates is required for this option.



Grate design



Features

- Load Class D to EN 1433
- ACO Freestyle grates are available for 4", 8" and 12" KlassikDrain systems
- Manufactured from ductile iron
- ACO DrainLok™ locking system

Examples





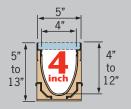




K100/KS100 - 4" wide general purpose system

KlassikDrain K100/ KS100

Key Dimensions





131' continuous slope

Typical applications

- Parking lots & garages
- Shopping malls
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

Selection criteria



Light to industrial duty loads

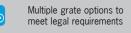


Product can be used towards LEED & EPA requirements



Resistant to many everyday chemicals. *Check page 139*









Multiple grate options to meet design requirements



General everyday hydraulic capacity



Constant depth and/or sloped depth channels

K100 is a 4" wide general purpose system with galvanized steel edge rail and the widest choice of grates in different materials and slot styles up to Load Class E (60 ton) featuring 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 increased aesthetics are required or where increased corrosion resistance is required.

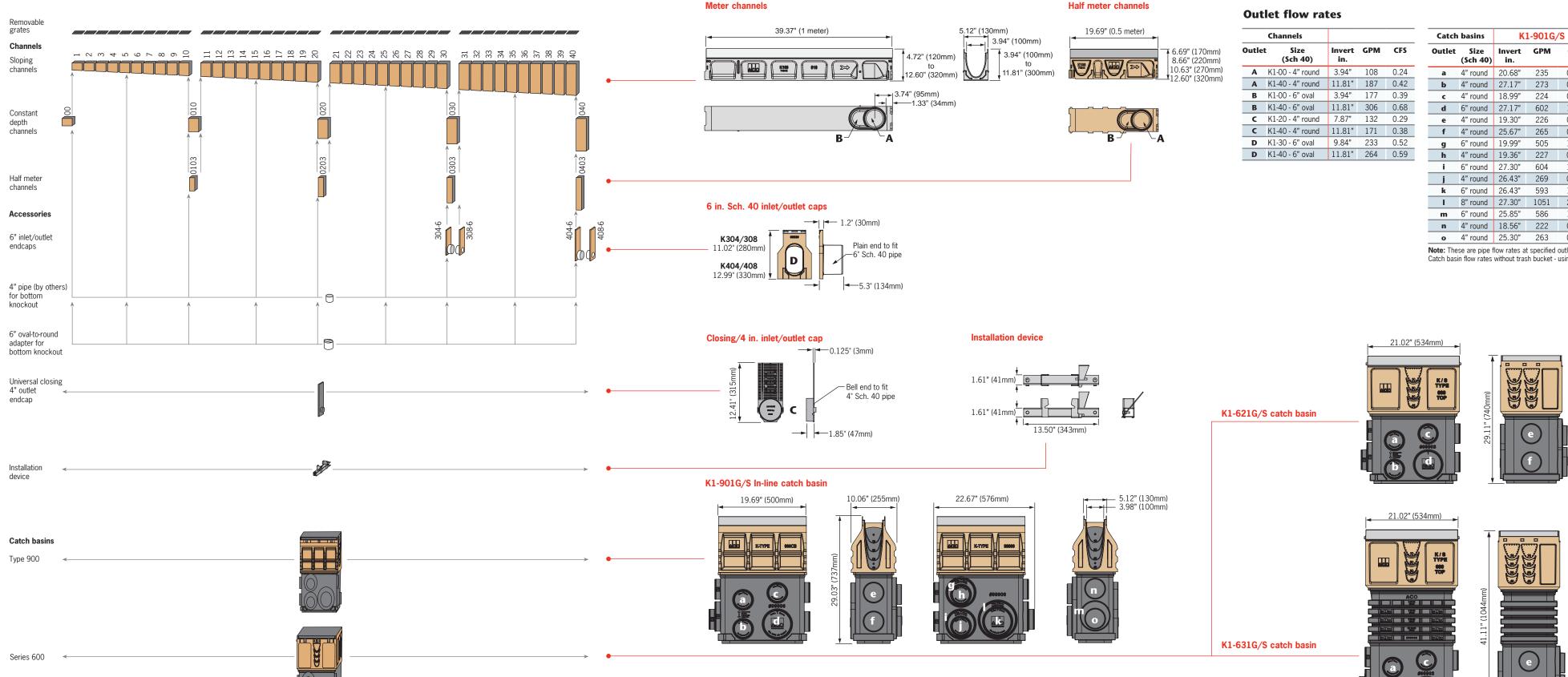




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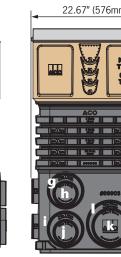
14.17" (360mm)

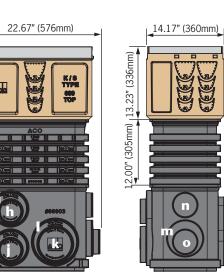
System layout



Catch	basins	K:	L-901G/	′S	K	1-621G/	′S	K1-631G/S				
Outlet	Size (Sch 40)	Invert in.	GPM	CFS	Invert in.	GPM	CFS	Invert in.	GPM	CFS		
a	4" round	20.68"	235	0.52	21.29"	239	0.53	33.29"	305	0.68		
b	4" round	27.17"	273	0.61	27.79"	276	0.62	39.79"	335	0.75		
c	4" round	18.99"	224	0.50	19.72"	229	0.51	31.72"	297	0.66		
d	6" round	27.17"	602	1.34	27.79"	610	1.36	39.79"	743	1.66		
e	4" round	19.30"	226	0.50	19.84"	230	0.51	31.84"	297	0.66		
f	4" round	25.67"	265	0.59	26.34"	269	0.60	38.34"	328	0.73		
g	6" round	19.99"	505	1.12	20.62"	514	1.15	32.62"	667	1.49		
h	4" round	19.36"	227	0.51	20.07"	231	0.52	32.07"	299	0.67		
i	6" round	27.30"	604	1.35	27.76"	609	1.36	39.76"	743	1.65		
j	4" round	26.43"	269	0.60	27.19"	273	0.61	39.19"	332	0.74		
k	6" round	26.43"	593	1.32	27.19"	602	1.34	39.19"	737	1.64		
- 1	8" round	27.30"	1051	2.34	27.76"	1061	2.36	39.76"	1302	2.90		
m	6" round	25.85"	586	1.30	26.28"	591	1.32	38.28"	728	1.62		
n	4" round	18.56"	222	0.49	19.15"	225	0.50	31.15"	294	0.65		
o	4" round	25.30"	263	0.59	25.86"	266	0.59	37.86"	326	0.73		

Note: These are pipe flow rates at specified outlet, NOT channel flow rates. Catch basin flow rates without trash bucket - using trash bucket reduces flow.





KlassikDrain K100/ KS100

Meter channels - sloping & constant depth

0.5% sloped channels in meter lengths and 40 depths which connect to create 40 meter (131'-2") continuously sloping run. Available with either galvanized or stainless steel edge rail.

Constant depth channels available in 5 depths. Can be used to create non-sloped runs, or inserted in sloped runs to increase length.

Bottom knockouts on all constant depths and 5, 10, 15, 20, 25, 30, 35, 40 channels.



Half meter channels

Constant depth channels in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels. Available with either galvanized or stainless steel edge rail.

6 in. Sch. 40 inlet/outlet caps

6" Schedule 40 plain end polypropylene pipe; oval to round adapter cast into polymer concrete end cap and available in two heights. Solvent weld to

Note: These end caps cannot be cut to height, and fit only at positions shown in

Closing/4 in. inlet/outlet cap

Fits all channels and manufactured from gray ABS to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. 4" bell end connection to Schedule 40 pipe. Seal using PVC-ABS

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

Installation device

Fits molded 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. Not reusable; it is 'lost' within concrete haunch.



Two part in-line catch basin with 4", 6" and 8" drill-outs for pipe connection. Supplied with plastic trash bucket. Options include an in-line or side foul air trap. Available with either galvanized or stainless steel edge rail.

Any channel can be connected into the catch basin 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. All cut-outs to receive male channel ends. One blanking end plate supplied with in-line catch basin.



Two part catch basin; bases have 4", 6" and 8" drill-outs for pipe connections. Supplied with plastic trash bucket. Optional riser available for increased depth. Contact ACO for non-polyethylene riser/bases. Available with either galvanized or stainless steel edge rail.

Any channel can be connected to catch basin by removing end/side wall to correct height. Drill-outs guide connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends.

ACO DRAIN

- 1. K100 has a galvanized steel edge rail for general use. KS100 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion
- 2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 30-33.
- 3. Preformed 4" dia. & 6" oval drill-outs cast on underside of certain channels (00, 5, 10, 010, 0103, 15, 20, 020, 0203, 25, 30, 030, 0303, 35, 40, 040, 0403).
- 4. Closing/4" outlet closing cap can be cut down to suit all channels.
- 5. Catch basin details on page 29.
- 6. Debris strainer details for 4" dia. outlet on page 103.

KlassikDrain K100/

K100/KS100 Parts table	Par	t No.	I	nvert Depth Overall					Depth Vo			Wgt
	K100	KS100		hes		m		hes		m	Gal	lbs
K1-00 Constant depth channel - 39.37" (1m) 3	74041	74441					female 4.72			male 120	1.96	28.1
K1-1 Sloped channel - 39.37" (1m)		74401		4.13	100	105	4.72	4.92	120	125	1.99	28.1
K1-2 Sloped channel - 39.37" (1m)		74402			105	110	4.92		125	130	2.04	
K1-3 Sloped channel - 39.37" (1m)		74403		4.53	110	115	5.12	5.31	130	135	2.13	29.7
K1-4 Sloped channel - 39.37" (1m)		74404		4.72	115	120	5.31		135	140	2.23	30.5
K1-5 Sloped channel - 39.37" (1m) ³		74405		4.92	120	125	5.51	5.71	140	145	2.33	31.3
K1-6 Sloped channel - 39.37" (1m)		74406		5.12	125	130	5.71		145	150	2.43	32.1
K1-7 Sloped channel - 39.37" (1m)		74407		5.31	130	135	5.91	6.10	150	155	2.54	32.9
K1-8 Sloped channel - 39.37" (1m)		74408		5.51	135	140	6.10		155	160	2.65	33.7
K1-9 Sloped channel - 39.37" (1m)		74409		5.71	140	145	6.30	6.50	160	165	2.75	34.5
K1-10 Sloped channel - 39.37" (1m) ³		74410			145	150	6.50	6.69	165	170	2.86	35.3
K1-010 Constant depth channel - 39.37" (1m) ³					150	150		6.69	170	170	2.85	35.3
K1-0103 Constant depth channel - 19.69" (0.5m) ³					150	150	6.69		170	170	1.43	
K1-11 Sloped channel - 39.37" (1m)		74411		6.10	150	155	6.69	6.89	170	175	2.97	36.1
K1-12 Sloped channel - 39.37" (1m)		74412		6.30	155	160	6.89		175	180	3.08	36.9
K1-13 Sloped channel - 39.37" (1m)		74413		6.50	160	165	7.09	7.28	180	185	3.19	37.7
K1-14 Sloped channel - 39.37" (1m)		74414		6.69	165	170		7.48	185	190	3.30	38.5
K1-15 Sloped channel - 39.37" (1m) ³		74415		6.89	170	175	7.48	7.48	190	195	3.42	39.3
K1-16 Sloped channel - 39.37" (1m)		74416		7.09	175	180	7.48	7.87	195	200	3.53	40.1
K1-17 Sloped channel - 39.37" (1m)		74417		7.03	180	185	7.87	8.07	200	205	3.64	40.9
K1-17 Sloped Chainler - 39.37 (1m)		74418		7.48	185	190	8.07		205	210	3.75	41.7
		74419	_	7.48	190	195	8.27	8.46	210	215	3.86	42.5
K1-19 Sloped channel - 39.37" (1m)										220	3.98	
K1-20 Sloped channel - 39.37" (1m) ³ K1-020 Constant depth channel - 39.37" (1m) ³		74420		7.87	195 200	200 200	8.46	8.66 8.66	215 220	220	3.90	43.4 43 .4
							8.66					
K1-0203 Constant depth channel - 19.69" (0.5m) ³					200	200			220	220	1.98	
K1-21 Sloped channel - 39.37" (1m)		74421		8.07	200	205	8.66	8.86	220	225	4.09	44.2
K1-22 Sloped channel - 39.37" (1m)		74422		8.27	205	210	8.86	9.06	225	230	4.20	45.0
K1-23 Sloped channel - 39.37" (1m)		74423		8.46	210	215	9.06	9.25	230	235	4.32	45.8
K1-24 Sloped channel - 39.37" (1m)		74424		8.66	215	220	9.25	9.45	235	240	4.42	46.6
K1-25 Sloped channel - 39.37" (1m) ³		74425		8.86	220	225	9.45	9.65	240	245	4.54	47.4
K1-26 Sloped channel - 39.37" (1m)		74426		9.06	225	230	9.65		245	250	4.66	48.2
K1-27 Sloped channel - 39.37" (1m)		74427		9.25	230	235		10.04	250	255	4.78	49.0
K1-28 Sloped channel - 39.37" (1m)		74428		9.45	235		10.04			260	4.89	49.8
K1-29 Sloped channel - 39.37" (1m)		74429		9.65	240	245		10.43	260	265	5.00	50.6
K1-30 Sloped channel - 39.37" (1m) ³		74430		9.84	245		10.43			270	5.11	
K1-030 Constant depth channel - 39.37" (1m) ³					250		10.63			270	5.10	51.4
K1-0303 Constant depth channel - 19.69" (0.5m) ³					250		10.63			270	2.55	
K1-31 Sloped channel - 39.37" (1m)		74431			250		10.63		270	275	5.23	52.2
K1-32 Sloped channel - 39.37" (1m)		74432					10.83			280	5.34	53.0
K1-33 Sloped channel - 39.37" (1m)		74433			260	265		11.22	280	285	5.45	53.8
K1-34 Sloped channel - 39.37" (1m)		74434					11.22			290	5.56	54.6
K1-35 Sloped channel - 39.37" (1m) ³		74435				275	11.42		290	295	5.68	55.4
K1-36 Sloped channel - 39.37" (1m)		74436					11.61			300	5.79	56.2
K1-37 Sloped channel - 39.37" (1m)		74437				285	11.81		300	305	5.91	57.0
K1-38 Sloped channel - 39.37" (1m)		74438				290	12.01			310	6.02	
K1-39 Sloped channel - 39.37" (1m)		74439			290	295		12.40	310	315	6.13	58.7
K1-40 Sloped channel - 39.37" (1m) ³		74440					12.40			320	6.25	59.5
K1-040 Constant depth channel - 39.37" (1m) 3		74449					12.60			320	6.24	59.5
K1-0403 Constant depth channel - 19.69" (0.5m) 3	74050	74450	11.81	11.81			12.60			320	3.12	27.5
K1-304-6 6" inlet cap	96839	96844	9.84	9.84	250	250	11.02	11.02	280	280	-	5.2
K1-308-6 6" outlet cap		96845			250		11.02			280	-	5.0
	30070						12.99			330	-	6.0
		96846	II XI	1101								
K1-404-6 6" inlet cap	96834								330		_	5 2
K1-404-6 6" inlet cap K1-408-6 6" outlet cap	96834 96836	96847	11.81	11.81	300	300	12.99	12.99		330	-	
K1-404-6 6" inlet cap K1-408-6 6" outlet cap Universal end/4" inlet outlet cap	96834 96836 96	96847 822	11.81	11.81 11.81	300 300		12.99 12.40	12.99			-	0.4
K1-404-6 6" inlet cap K1-408-6 6" outlet cap Universal end/4" inlet outlet cap Debris strainer for 4" bottom knockout	96834 96836 96	96847 822 488	11.81	11.81	300	300	12.99	12.99		330	-	0.4
K1-404-6 6" inlet cap K1-408-6 6" outlet cap Universal end/4" inlet outlet cap Debris strainer for 4" bottom knockout 4" oval to 6" round outlet adapter	96834 96836 968 93 95	96847 822 488 140	11.81	11.81 11.81	300 300	300	12.99 12.40	12.99		330	- - - -	0.4 0.2 1.1
K1-404-6 6" inlet cap K1-408-6 6" outlet cap Universal end/4" inlet outlet cap Debris strainer for 4" bottom knockout 4" oval to 6" round outlet adapter Installation device	96834 96836 968 93 95 97	96847 822 488 140 477	11.81	11.81 11.81	300 300	300	12.99 12.40	12.99		330	- - - -	0.2 1.1 2.8
K1-404-6 6" inlet cap K1-408-6 6" outlet cap Universal end/4" inlet outlet cap Debris strainer for 4" bottom knockout 4" oval to 6" round outlet adapter	96834 96836 96 93 95 97	96847 822 488 140	11.81	11.81 11.81	300 300	300	12.99 12.40	12.99		330	- - - -	5.8 0.4 0.2 1.1 2.8 0.3 0.1

Polymer concrete catch basins

K1-Type 901

4 in. wide In-line catch basin

OuickLok™ locking bar

Polymer concrete catch basins 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 Type 901 provides an in-line catch basin (same width and visually indistinguishable from the trench run) and the Series 600 is 12" wide and provides a greater hydraulic output.

> Series 600 grates - choice of grates to match/complement channel with DrainLok™ or QuickLok™ boltless locking. See page 52-53.

Type 900 grates - choice of grates to match channel grates with DrainLok™ or QuickLok™ boltless locking. See page 30-33. QuickLok™ grates are supplied with removable QuickLok™ locking bar for easy access to trash bucket and pipework.

Top section - polymer concrete with integrally castin galvanized or stainless steel frame. Guides aid connection of male channel ends at #10, 20, 30 and 40 depths. Other channels can be connected by removing wall to required height. Blanking end rail supplied with K1-901. See page 155.

Trash bucket - plastic trash bucket designed to collect debris washed from trench run. Supported in catch basin top to avoid creation of a vacuum and reduction in outflow. K1-631 uses deeper bucket with riser.

Riser - a plastic riser, supplied with K1-631, designed to provide additional catch basin depth and hydraulic output. Guides enable cutting to size at 2" (50mm) intervals - minimum 2" and maximum 12" height. Additional units can be used (a maximum of 2 is recommended to ensure snake access is maintained and for structural stability). Contact ACO for non-polyethylene riser.

Base - polyethylene bases with wide range of Schedule 40 4", 6" and 8" cut-outs for easy pipe connection. Cut outs on end and side allow connection of ACO foul air trap. Contact ACO for non-polyethylene bases.

Parts table - K100 Catch basins	Par	t No.	Volume	Weight
raits table - Kioo Cattii basiiis	K100	KS100	Gallons*	lbs
K1-901 in-line catch basin - 19.69" (0.5m)	94608	94609	12.3	52.6
K1-621 catch basin - 19.69" (0.5m)	94617	94618	24.9	55.8
K1-631 catch basin - 19.69" (0.5m)	94631	94632	34.7	65.8
Series 600 optional riser	99	902	9.8	10.0
Foul air trap - fits both 901 & 600 basins	90	854	-	1.2
* Volume is up to grate seat and without trash buck	ket.			

K1-Series 600 12 in. wide catch basiı QuickLok™ locking bar

Available K100/KC100 DrainLekTM grates

		-,	100 Drai		9								
Description		Part No.	Length inches (m)	Slot Size inches	Intake area sq. in.	Wgt lbs	B :	E		SAFE	∮	K	
A 統 Loa	ad Class	A - 3,5	600lbs - EN 1	433	70psi								Pedestrian
Perforat	ted st	eel											
			39.37" (1.0m) 19.69" (0.5m)	0.25 dia.	28.3 14.1	6.3 3.2	DL					22.6	
J 1			39.37" (1.0m) 19.69" (0.5m)		28.3 14.1	6.3 3.2	DL	•	•	•	•	29.6	
	- •			* Grade 304 sta	ainless ste	el							
Slotted :													
			39.37" (1.0m) 19.69" (0.5m)	0.38 x 1.46	35.2 17.6	5.9 3.0	DL	×	×	×	~	27.4	
Type 450D - st Type 452D - st			39.37" (1.0m) 19.69" (0.5m)	avg	35.2 17.6	2.9						29.9	
Longitue	dinal	nlasti	<u> </u>	* Grade 304 sta	airiless ste	el	1			1			
Type 494D - bl		9957599576	19.69" (0.5m)	1.76 x 0.34	27.4	1.8	DL	~	×	×	~	52.5	
Type 496D - ta	an	99577		Polypropylene									# U ##6##6#
B 👼 Loa	ad Class	B - 28,	.000lbs - EN	1433	581p	si							Light duty
Longitu	dinal	stainl	ess steel										
Type 447D - st Type 448D - st	tainless	142215	39.37" (1.0m) 19.69" (0.5m)	1.61 x 0.24	93.7 46.9	8.0 4.0	DL	•	~	~	•	51.3	
Longitu	dinal	aalva	nized ste	Grade 304 stai	nless stee	l							
Longitu	umai	yaiva	ilizeu ste	CI									<u> </u>
			39.37" (1.0m) 19.69" (0.5m)	1.15 x 0.3	66.0 33.0	9.0 4.5	DL	•	•	×	•	42.3	Initititi
CELLO	ad Class	C 56	.000lbs - EN	1/22	1,162	Paci							Commercial vehicle
			OOOIDS - EN	1433	-1,102	zhar							
	niatt.												
Slotted	•											06.4	มิกมีTมักมิกมิกมิกมิกมิกมิกมิกมิกมิก
Type 492D - bl	lack**	132720	19.69" (0.5m)	0.3 x 1.69	22.2	2.2	DL	×	~	×	~	86.4 35.6	
Type 492D - bl	lack** ray	132720	19.69" (0.5m)	avg					V	×	~		
Type 492D - bl Type 497D - gl Type 498D - ta	lack** ray an	132720 132266	19.69" (0.5m)		22.2				✓	×	•	35.6	
Type 492D - bl Type 497D - gl Type 498D - ta Slotted 9 Type 425D - ga	ray an steel alvanized	132720 132266 132712 12614	19.69" (0.5m) 39.37" (1.0m) 19.69" (0.5m)	Polypropylene					July)	×	~	35.6	
Type 492D - bl Type 497D - gl Type 498D - ta Slotted 9 Type 425D - ga	ray an steel alvanized alvanized tainless*	132720 132266 132712 12614 12615 12644	39.37" (1.0m)	avg	** Micro	ogrip text 8.8			v Nily)	×	•	35.6 35.6	

Intake Wgt Description inches (m) inches C Load Class C - 56,000lbs - EN 1433 **Commercial vehicle** 1,162psi **Perforated steel** Type 411D - galvanized **12656** 39.37" (1.0m) Type 413D - galvanized **12657** 19.69" (0.5m) 28.3 11.3 22.6 14.1 5.7 0.25 dia. Type 465D - stainless* **12654** 39.37" (1.0m) 28.3 11.3 29.6 Type 466D - stainless* **12655** 19.69" (0.5m) 14.1 5.7 * Grade 304 stainless steel Mesh steel Type 405D - galvanized **12618** Type 406D - galvanized **12619** 39.37" (1.0m) 121.1 7.8 1.20 x 0.50 19.69" (0.5m) 58.0 Type 430D - stainless* **12648** Type 431D - stainless* **12649** * Grade 304 stainless steel **Slotted iron 12670** 19.69" (0.5m) Type 460D - iron Ductile iron to ASTM A 536-84 - minimum grade 64-45-12 **Longitudinal iron 142171** 19.69" (0.5m) 2.1 x 0.24 22.6 7.0 DL Type 476D - iron Ductile iron to ASTM A 536-84 - minimum grade 64-45-12 **Wave iron** Type 480D - iron **99578** 19.69" (0.5m) Ductile iron to ASTM A 536-84 - minimum grade 64-45-12

DrainLok™ - boltless & barless locking system

Fast locking device removes the need for bolts and bars and improves channels hydraulic capacity. The DrainLok™ mechanism simply clips into channel edge rail for rapid installation. ACO DrainLok™ grates are fitted with an anti-shunt mechanism that restricts unwanted grate movement when installed, improving durability and longevity of the system.



Position grate onto channel and align anti-shunt

detail with recess in rail.

Fit grate

Push down or stand on grate until it clicks into



To remove first grate, insert grate removal

tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.

For QuickLok™ grates see next page



Locking mechanism



Heel safe equal or less than 0.25" (6.5mm) (Page 140)



Compliant with Americans with Disabilities Compliant with Americans with Disabilities
Act of 1990 Section 4.5.4 (Page 140) Bicycle Safe compliant to Australian

Standard AS 3996 - 2006 (**Page 140**)



ASME A112.6.3 - 2001 (reer roots) less than 0.31" (8mm) (**Page 140**) ASME A112.6.3 - 2001 Heel resistant



Anti-slip grates - BPN over 24 (**Page 140**)



Available K100/KS100 QuickLok™ grates

Description	Part No.	Length inches (m)	Slot Size inches	Intake area sq. in.	Wgt lbs	G	Ł		SAFE	₽	K	
C 6 Load Class	s C - 56	,000lbs - EN	1433	1,16	2psi						(Commercial vehicle
Deco iron												
Type 481Q - iron	97120	19.69" (0.5m)	0.44 x 0.6 avg	19.0	9.0	QL	V	×	×	•	38.8	(독교) - 전등 관등 전 10
			Ductile iron to	ASTM A 5	36-84 - m	inimum	n grad	e 64-4	5-12			
Mosaic iron												
Type 479Q - iron	97116	19.69" (0.5m)	0.43 avg	13.0	10.0	QL	V	×	×	V	24.6	
			Ductile iron to	ASTM A 5	36-84 - m	inimum	n grad	e 64-4	5-12			
E - Load Class	s E - 13:	5,000lbs - EN	N 1433	2,78	88psi							Industrial
Slotted iron												
Type 461Q - iron	96752	19.69" (0.5m)	0.40 x 3.93	34.1	10.2	QL	×	×	×	~	31.1	



Type 435Q - galvanized Type 436Q - galvanized				13.7 6.8	QL	V	V	×	J.	27.4	
Type 490Q - stainless* Type 493Q - stainless*			35.2 17.6	13.7 6.8	ĄΓ	^	^	^	Ť	29.9	
		* Grade 304 sta	ainless ste	eel.							

Ductile iron to ASTM A 536-84 - minimum grade 64-45-12

Longitudinal iron

Type 478Q - iron	03314	19.69" (0.5m)								•	25.8	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			Ductile iron to A	ASTM A 5	36-84 - m	inimun	n grad	e 64-4	5-12			

QuickLok™ - boltless locking system















Fit locking bar

Locking mechanism

(6.5mm) (Page 140)

Heel safe equal or less than 0.25'

Locate locking bar in channel wall recesses by rotating clockwise.

Use hammer to tap bar into place, so that serrated ends grip in

To install grate, align QuickLok™ stud directly over locking position.

Compliant with Americans with Disabilities

Standard AS 3996 - 2006 (Page 140)

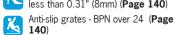
Act of 1990 Section 4.5.4 (Page 140)

Bicycle Safe compliant to Australian

Push down or stand on To remove first grate, grate until it clicks into insert grate removal grate, pull up sharply.

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

ASME A112.6.3 - 2001 Heel resistant less than 0.31" (8mm) (**Page 140**)



Remaining grates can be removed by hand.

Grate removal



Slot Size Intake Wgt area inches sq. in. Ibs Description C Load Class C - 56,000lbs - EN 1433 1,162psi **Commercial vehicle Steel Brickslot 100** Type 441 - galvanized **138040** 39.37" (1.0m) Type 442 - galvanized **138041** 19.69" (0.5m) 9.0 39.4 x 0.47 18.6 17.6 Type 443 stainless* **138045** 39.37" (1.0m) Type 444 stainless* **138046** 19.69" (0.5m) 9.0 * Grade 304 stainless steel. See page 58 for full details/access units. **Steel Heel Resistant Brickslot 100** Type 470 - galvanized **138050** 39.37" (1.0m) 18.0 Type 471 - galvanized **138051** 19.69" (0.5m) 9.2 39.4 x 0.3 24.8 18.0 **138055** 39.37" (1.0m) Type 472 stainless* 9.2 Type 473 stainless* **138056** 19.69" (0.5m)

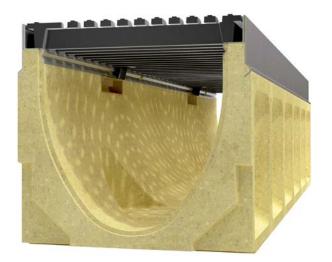




* Grade 304 stainless steel. See page 58 for full details/access units.

Typical Brickslot use

K200/KS200 - 8" wide general purpose system



K200 is an 8" wide system with galvanized steel edge rail and wide choice of grates in different materials and slot styles up to Load Class E (60 ton) featuring 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 increased aesthetics are required, or where increased corrosion resistance is required.

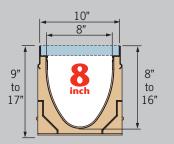




www.ACODrain.us

KlassikDrain K200/ KS200

Key Dimensions





131' continuous slope

Typical applications

- Parking lots & garages
- Shopping malls
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

Selection criteria

ABCDE

Light to industrial duty loads



Product can be used towards LEED & EPA requirements



Resistant to many everyday chemicals. Check page 139









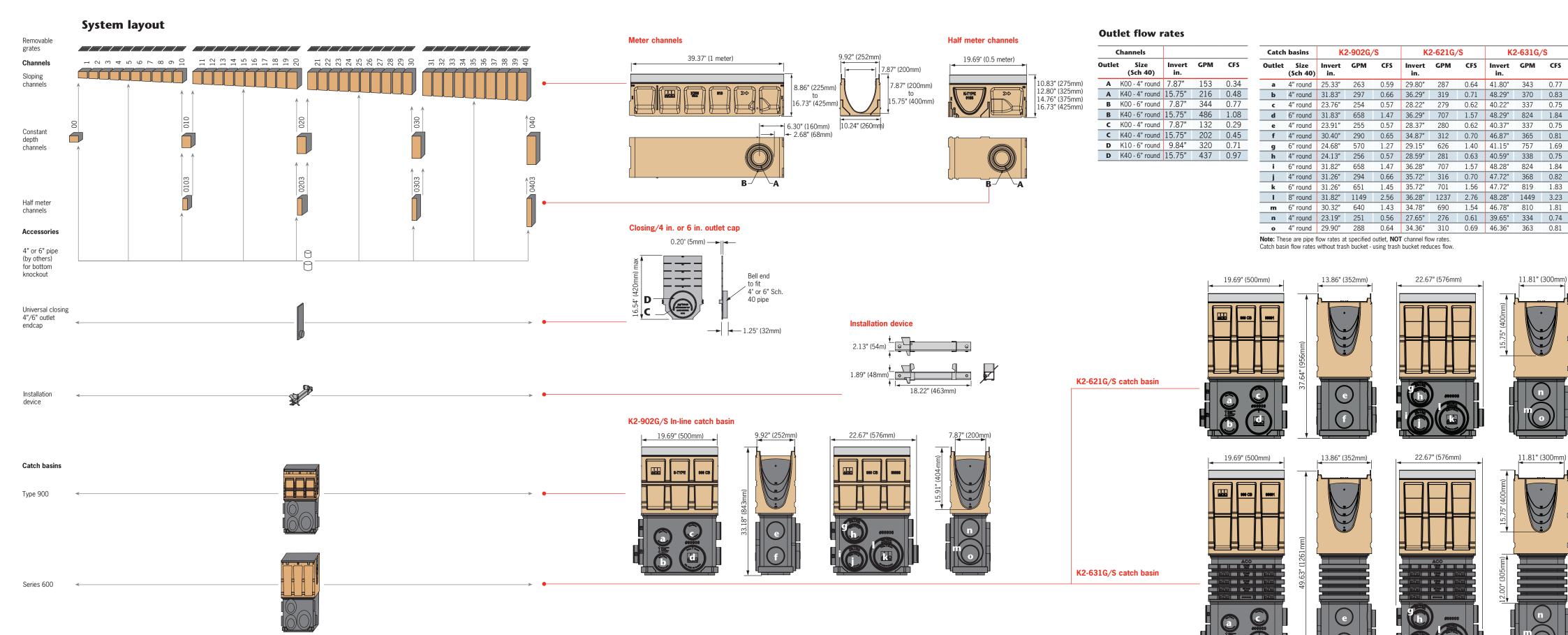
Multiple grate options to meet design requirements



Increased hydraulic capacity



Constant depth and/or sloped depth channels



0.5% sloped channels in meter lengths and 40 depths which connect to create 40 meter (131'-2") continuously sloping run. Available with either galvanized or stainless

Constant depth channels are available in 5 depths. Can be used to create non-sloped runs, or inserted in sloped runs to increase length.

Bottom knockouts on all constant depths and 5, 10, 15, 20, 25, 30, 35, 40 channels.





Half meter channels

Constant depth channels in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels. Available with either galvanized or stainless steel edge rail.



Closing/4 in. or 6 in. outlet cap

Fits all channels and manufactured from gray polypropylene to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. 4" and 6" bell end provides connection to Schedule 40 pipe. Seal using appropriate flexible

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



Fits molded 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. Not reusable; it is 'lost' within concrete haunch.



Type 902 In-line catch basin

Two part in-line catch basin with 4", 6" and 8" drill-outs for pipe connection. Supplied with plastic trash bucket. Options include an in-line or side foul air trap. Available with either galvanized or stainless steel edge rail.

Any channel can be connected into the catch basin 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. All cut-outs to receive male channel ends.

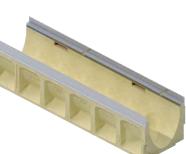


Series 600 catch basin

Two part catch basin; bases have 4", 6" and 8" drill-outs for pipe connections. Supplied with plastic trash bucket. Optional riser available for increased depth. Contact ACO for non-polyethylene riser/bases. Available with either galvanized or stainless steel edge rail.

Any channel can be connected to catch basin by removing end/side wall to correct height. Cut-outs guide connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends. Blanking kit end rail available to stop concrete ingress during final pour.

www.ACODrain.us



ACO DRAIN

K200/KS200 Parts table	Par	t No.	ı	Invert	Depth	1	C	Overall	Deptl	h	Vol	Wgt
	K200	KS200	Inc	hes	m	m	Inc	hes	m	m	Gal	lbs
			female	male	female	male	female	male	female	male		
K2-00 Constant depth channel - 39.37" (1m) ³		75441	_	7.87	200	200	8.86		225	225	7.54	83.6
K2-1 Sloped channel - 39.37" (1m)		75401		8.07	200	205	8.86	9.06	225	230	7.94	83.6
K2-2 Sloped channel - 39.37" (1m)		75402		8.27	205	210	9.06	9.25	230	235	8.13	84.7
K2-3 Sloped channel - 39.37" (1m)		75403		8.46	210	215	9.25	9.45	235	240	8.33	85.8
K2-4 Sloped channel - 39.37" (1m)		75404		8.66	215	220	9.45	9.65	240	245	8.53	86.9
K2-5 Sloped channel - 39.37" (1m) 3		75405		8.86	220	225	9.65	9.84	245	250	8.74	88.0
K2-6 Sloped channel - 39.37" (1m)		75406 75407	9.06	9.06 9.25	225 230	230 235		10.04	250 255	255 260	8.95 9.16	89.1 90.2
K2-7 Sloped channel - 39.37" (1m) K2-8 Sloped channel - 39.37" (1m)		75407 75408		9.45	235	240	10.04		260	265	9.10	91.3
K2-9 Sloped channel - 39.37" (1m)		75409		9.65	240	245	10.43		265	270	9.58	92.4
K2-10 Sloped channel - 39.37" (1m) 3		75410		9.84	245		10.43		270	275	9.79	93.5
K2-010 Constant depth channel - 39.37" (1m) ³		75443		9.84	250	250		10.83		275	9.59	93.5
K2-0103 Constant depth channel - 19.69" (0.5m) ³					250		10.83			275	4.80	
K2-11 Sloped channel - 39.37" (1m)	75011	75411	9.84	10.04	250	255	10.83		275	280	10.01	
K2-12 Sloped channel - 39.37" (1m)	75012	75412	10.04	10.24	255	260	11.02	11.22	280	285	10.22	95.7
K2-13 Sloped channel - 39.37" (1m)	75013	75413	10.24	10.43	260	265	11.22		285	290	10.44	96.8
K2-14 Sloped channel - 39.37" (1m)	75014	75414	10.43	10.63	265	270	11.42	11.61	290	295	10.66	97.9
K2-15 Sloped channel - 39.37" (1m) ³		75415			270	275	11.61		295	300	10.88	
K2-16 Sloped channel - 39.37" (1m)		75416					11.81		300		11.10	
K2-17 Sloped channel - 39.37" (1m)		75417			280	285	12.01		305	310	11.32	
K2-18 Sloped channel - 39.37" (1m)		75418			285		12.20		310		11.54	
K2-19 Sloped channel - 39.37" (1m)		75419			290	295	12.40		315		11.76	
K2-20 Sloped channel - 39.37" (1m) 3		75420			295		12.60		320		11.98	
K2-020 Constant depth channel - 39.37" (1m) ³ K2-0203 Constant depth channel - 19.69" (0.5m) ³					300 300		12.80 12.80		325 325		11.78 5.89	
K2-21 Sloped channel - 39.37" (1m)		75421			300	305	12.80		325		12.21	
K2-22 Sloped channel - 39.37" (1m)		75422			305		12.99		330		12.42	
K2-23 Sloped channel - 39.37" (1m)		75423			310	315	13.19		335		12.65	
K2-24 Sloped channel - 39.37" (1m)		75424			315		13.39		340		12.87	
K2-25 Sloped channel - 39.37" (1m) 3		75425			320	325	13.58		345		13.10	
K2-26 Sloped channel - 39.37" (1m)	75026	75426	12.80	12.99	325	330	13.78	13.98	350	355	13.32	111.1
K2-27 Sloped channel - 39.37" (1m)	75027	75427	12.99	13.19	330	335	13.98	14.17	355	360	13.56	112.2
K2-28 Sloped channel - 39.37" (1m)		75428			335	340	14.17		360		13.77	
K2-29 Sloped channel - 39.37" (1m)		75429			340	345	14.37		365		13.99	
K2-30 Sloped channel - 39.37" (1m) ³		75430			345		14.57		370		14.22	
K2-030 Constant depth channel - 39.37" (1m) ³		75447			350		14.76		375		14.01	
K2-0303 Constant depth channel - 19.69" (0.5m) ³		75448 75431			350 350		14.76		375	375	7.05	116.6
K2-31 Sloped channel - 39.37" (1m) K2-32 Sloped channel - 39.37" (1m)		75431 75432			355	355 360	14.76 14.96		375 380	380	14.44	
K2-33 Sloped channel - 39.37" (1m)		75433			360	365	15.16		385	390	14.89	
K2-34 Sloped channel - 39.37" (1m)		75434			365	370	15.35		390		15.11	
K2-35 Sloped channel - 39.37" (1m) 3		75435			370	375	15.55		395	400	15.34	
K2-36 Sloped channel - 39.37" (1m)		75436			375		15.75		400		15.56	
K2-37 Sloped channel - 39.37" (1m)		75437			380	385		16.14	405	410	15.78	
K2-38 Sloped channel - 39.37" (1m)	75038	75438	15.16	15.35	385	390	16.14	16.34	410	415	16.02	124.3
K2-39 Sloped channel - 39.37" (1m)		75439			390	395		16.54	415	420	16.23	125.4
K2-40 Sloped channel - 39.37" (1m) 3		75440					16.54					126.5
K2-040 Constant depth channel - 39.37" (1m) ³							16.73					126.5
K2-0403 Constant depth channel - 19.69" (0.5m) ³							16.73				8.14	
K2 Universal end/ 4" & 6" inlet/outlet cap		821 488	15./5	15.75	400	400	16.54	16.54	420	420	-	1.4
Debris strainer for 4" bottom knockout Installation device		488 478	-	-	-	-	-	-	-	-	-	0.2 4.0
Grate removal tool		478 318		-		-		-	-	-	-	0.3
QuickLok™ locking bar		457			-	-	-	-	-	-	-	0.5
Notes:												

1. K200 has a galvanized steel edge rail for general use. KS200 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion

- 2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 42-43.
- 3. Preformed 4" & 6" dia. drill-outs cast on underside of certain channels (00, 5, 10, 010, 0103, 15, 20, 020, 0203, 25, 30, 030, 0303, 35, 40, 040, 0403).
- 4. Closing/outlet cap can be cut down to suit all channels.
- 5. Catch basin details on page 41.
- 6. Debris strainer details for 4" dia. outlet on page 103.

Polymer concrete catch basins

K2-Type 902

QuickLok™ locking bar

Polymer concrete catch basins are used either as stand alone area drains or more commonly as the outlet to a trench run. They provide the highest hydraulic output and allow easy access to pipe system for maintenance.

Type 900 provides an in-line catch basin (same width and visually indistinguishable from the trench run) and the Series 600 is 12" wide and provides greater a hydraulic output.

QuickLok™ boltless locking. See page 52-53. Type 900 grates - choice of grates to match 8 in. wide In-line catch basin channel grates with DrainLok™ or QuickLok™ boltless locking. See page 42-43. QuickLok™

pipework.

Top section - polymer concrete with integrally castin galvanized or stainless steel frame. Guides aid connection of male channel ends at #10, 20, 30 and 40 depths. Other channels can be connected by removing wall to required height. Blanking end rail supplied with K2-902 and blanking kit available for Series 600. See page 155.

Trash bucket - plastic trash bucket designed to collect debris washed from trench run. Supported in catch basin top to avoid creation of a vacuum and reduction in outflow. K2-631 uses deeper bucket with riser.

Riser - a plastic riser, supplied with K2-631, designed to provide additional catch basin depth and hydraulic output. Guides enable cutting to size at 2" (50 mm) intervals - minimum 2" and maximum 12" height. Additional units can be used (a maximum of 2 is recommended to ensure snake access is maintained and for structural stability). Contact ACO for non-polyethylene riser.

Schedule 40 4", 6" and 8" cut-outs for easy pipe connection. Cut-outs on end and side allow connection of ACO foul air trap. Contact ACO for non-polyethylene bases.

12 in. wide catch basin (with riser)



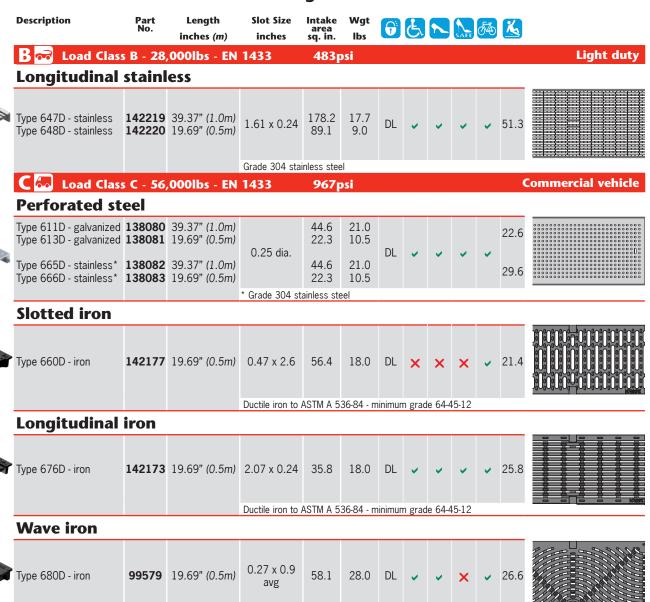
Base - polyethylene bases with wide range of

Parts table - K200 Catch basins	Part	t No.	Volume	Weight
Tarts table - K200 Caten basins	K200	KS200	Gallons*	lbs
K2-902 in-line catch basin - 19.69" (0.5m)	94611	94612	18.1	68.0
K2-621 catch basin - 19.69" (0.5m)	94520	94621	30.4	91.0
K2-631 catch basin - 19.69" (0.5m)	94633	94634	40.2	101.0
Series 600 optional riser	99902		9.8	10.0
Foul air trap - fits both 902 & 600 basins	908	354	-	1.2

^{*} Volume is up to grate seat and without trash bucket.



Available K200/KS200 DrainLok™ grates



DrainLok™ - boltless & barless locking system



Position grate onto channel, align anti-shunt detail with recess in rail.

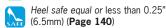
Push down or stand on grate until it clicks into

Ductile iron to ASTM A 536-84 - minimum grade 64-45-12



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

Locking mechanism







Anti-slip grates - BPN over 24 (Page 140)

Available K200 /K2200 QuicklakTM grates

	Description	Part No.	Length inches (m)	Slot Size inches	Intake area sq. in.	Wgt Ibs	G :	E		SAFE	A	K
Load Class	C - 56,000lbs - EN	1433	967psi					Com	mer	cial v	veh	icle
	Mesh steel											
	Type 605Q - galvanized Type 606Q - galvanized			0.66 x 1.22	256 128	31.7 16.1	QL	V	V			52.1
	Type 630Q - stainless* Type 631Q - stainless*		39.37" (1.0m) 19.69" (0.5m)		256 128	31.7 16.1	QL	×	X	×	•	41.3
				* Grade 304 st	ainless ste	el						
	Decorative ir	on										
	Type 681Q - iron	93956	19.69" (0.5m)	0.29 x 0.43 avg	29.1	27.0	QL	V	×	×	•	38.8
				Ductile iron to	ASTM A 5	36-84 - m	ninimun	n grad	e 64-4	5-12		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Mosaic iron											
	Type 679Q - iron	93957	19.69" (0.5m)	0.30 x 0.98 avg.	38.3	34.0	QL	v	×	×	•	24.6
, ૡ૽ૺૢઌ૽ૼૢૡ૽૽ૢઌ૽ૢ૽ઌ૿૽ૢ૽૿૽ૢ૽ઌ૽				Ductile iron to	ASTM A 5	36-84 - m	ninimun	n grad	e 64-4	5-12		
Load Class	E - 135,000lbs - EN	1433	2,321p	osi						Ind	lust	rial
	Longitudinal	iron										
	Type 678Q - iron		19.69" (0.5m)	1.41 x 0.31	51.6	26.0	QL	V	V	•	~	25.8
				Ductile iron to	ASTM A 5	36-84 - m	ninimun	n grad	e 64-4	5-12		
	Slotted iron											
	Type 661Q - iron	10351	19.69" (0.5m)	0.39 x 3.75	81.9	37.0	QL	×	×	×	×	59.9
				Ductile iron to	ASTM A 5	36-84 - m	ninimun	n grad	e 64-4	5-12		
)uickl ok™ -	boltless locki	na sv	stem									
L	2	3	4		5				6	1	A	



K200 channels use

hold in place.

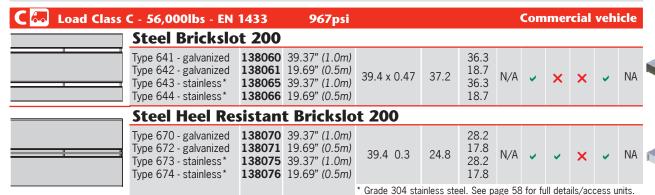
Locate locking bar in recesses, rotate and use plastic safety clip to hammer to tap securely into place. Serrated ends grip in recess.

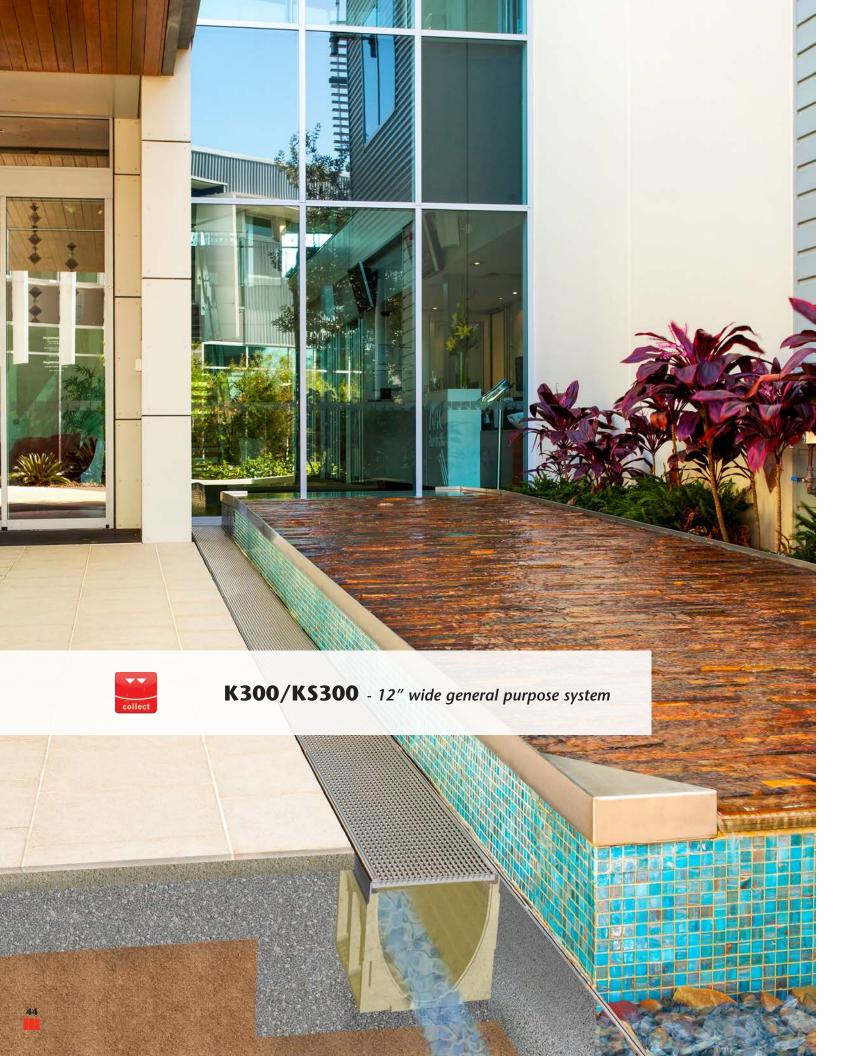
Fit grate Push down or stand on To install grate, align QuickLok™ stud grate until it clicks into directly over locking position.

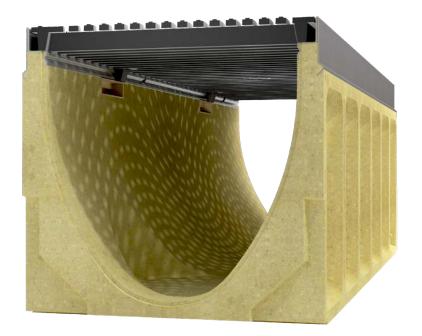


To remove first grate, insert grate removal Remaining grates can be removed by hand.









K300 is a 12" wide system with galvanized steel edge rail and wide choice of grates in different materials and slot styles up to Load Class E (60 ton) featuring 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 increased aesthetics are required, or where increased corrosion resistance is required.

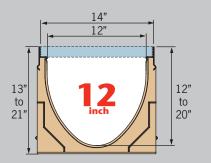


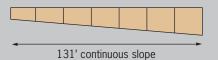


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KlassikDrain K300/ **KS300**

Key Dimensions





Typical applications

- Parking lots & garages
- Shopping malls
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

Selection criteria

ABCDE

Light to industrial duty loads



Product can be used towards LEED & EPA requirements



Resistant to many everyday chemicals. Check page 139



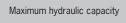






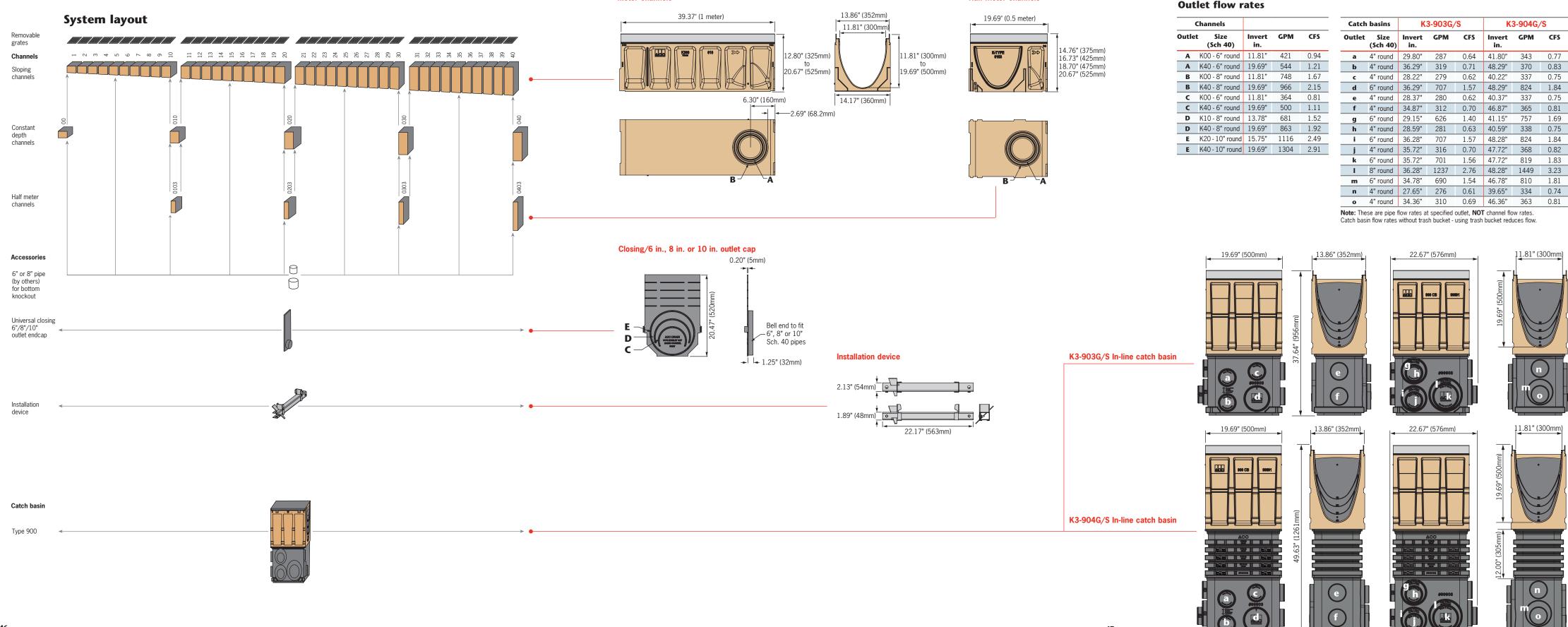
Multiple grate options to meet design requirements







Constant depth and/or sloped depth channels



Half meter channels

Meter channels

Meter channels - sloping & constant depth

0.5% sloped channels in meter lengths and 40 depths which connect to create 40 meter (131'-2") continuously sloping run. Available with either galvanized or stainless steel edge rail.

Constant depth channels are available in 5 depths. Can be used to create non-sloped runs, or inserted in sloped runs to increase length.

Bottom knockouts on all constant depths and 5, 10, 15, 20, 25, 30, 35, 40 channels.



Half meter channels

Constant depth channels in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels. Available with either galvanized or stainless steel edge rail.



Closing/6 in., 8 in. or 10 in. outlet cap

Fits all channels are manufactured from gray polypropylene to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. 6", 8" and 10" bell end provides connection to Schedule 40 pipe. Seal using appropriate flexible sealant.

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



Fits molded 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. Not reusable; it is 'lost' within concrete haunch.



Type 903/904 In-line catch basins

Two part catch basin; bases have 4", 6" and 8" drill-outs for pipe connections. Supplied with plastic trash bucket. Optional riser available for increased depth. Contact ACO for non-polyethylene riser/bases. Available with either galvanized or stainless steel edge rail.

Any channel can be connected to catch basin by removing end/side wall to correct height. Cut-outs guide connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends. Blanking end rail supplied to stop concrete ingress during final pour.



K300/KS300 Parts table K3-00 Constant depth channel - 39.37" (1m) 76041 76441 11.81 11.81 300 300 12.80 12.80 325 325 18.01 132.6 **76001 76401** 11.81 12.01 300 305 12.80 12.99 325 330 19.58 132.6 K3-1 Sloped channel - 39.37" (1m) K3-2 Sloped channel - 39.37" (1m) **76002 76402** 12.01 12.20 305 310 12.99 13.19 330 335 20.01 133.8 **76003 76403** 12.20 12.40 310 315 13.19 13.39 335 340 20.44 135.0 K3-3 Sloped channel - 39.37" (1m) K3-4 Sloped channel - 39.37" (1m) **76004 76404** 12.40 12.60 315 320 13.39 13.58 340 345 20.86 136.2 **76005 76405** 12.60 12.80 320 325 13.58 13.78 345 350 21.28 137.4 K3-5 Sloped channel - 39.37" (1m) 3 **76006 76406** 12.80 12.99 325 330 13.78 13.98 350 355 21.69 138.6 **76007 76407** 12.99 13.19 330 335 13.98 14.17 355 360 22.11 139.8 K3-6 Sloped channel - 39.37" (1m) K3-7 Sloped channel - 39.37" (1m) K3-8 Sloped channel - 39.37" (1m) **76008 76408** 13.19 13.39 335 340 14.17 14.37 360 365 22.51 141.0 **76009 76409** 13.39 13.58 340 345 14.37 14.57 365 370 22.92 142.2 K3-9 Sloped channel - 39.37" (1m) K3-10 Sloped channel - 39.37" (1m) 3 **76010 76410** 13.58 13.78 345 350 14.57 14.76 370 375 23.32 143.4 K3-010 Constant depth channel - 39.37" (1m) ³ 76043 76443 13.78 13.78 350 350 14.76 14.76 375 375 21.22 143.4 K3-0103 Constant depth channel - 19.69" (0.5m) ³ 76044 76444 13.78 13.78 350 350 14.76 14.76 375 375 10.61 75.3 K3-11 Sloped channel - 39.37" (1m) **76011 76411** 13.78 13.98 350 355 14.76 14.96 375 380 23.72 144.6 K3-12 Sloped channel - 39.37" (1m) **76012 76412** 13.98 14.17 355 360 14.96 15.16 380 385 24.11 145.8 K3-13 Sloped channel - 39.37" (1m) **76013 76413** 14.17 14.37 360 365 15.16 15.35 385 390 24.51 147.0 K3-14 Sloped channel - 39.37" (1m) **76014 76414** 14.37 14.57 365 370 15.35 15.55 390 395 24.89 148.2 **76015 76415** 14.57 14.76 370 375 15.55 15.75 395 400 25.27 149.4 K3-15 Sloped channel - 39.37" (1m) 3 K3-16 Sloped channel - 39.37" (1m) **76016 76416** 14.76 14.96 375 380 15.75 15.94 400 405 25.68 150.6 K3-17 Sloped channel - 39.37" (1m) **76017 76417** 14.96 15.16 380 385 15.94 16.14 405 410 26.06 151.8 K3-18 Sloped channel - 39.37" (1m) **76018 76418** 15.16 15.35 385 390 16.14 16.34 410 415 26.44 153.0 K3-19 Sloped channel - 39.37" (1m) **76019 76419** 15.35 15.55 390 395 16.34 16.54 415 420 26.83 154.2 K3-20 Sloped channel - 39.37" (1m) 3 **76020 76420** 15.55 15.75 395 400 16.54 4.92 420 125 27.21 155.4 K3-020 Constant depth channel - 39.37" (1m) ³ 76045 76445 15.75 15.75 400 400 16.73 16.73 425 425 24.53 155.4 K3-0203 Constant depth channel - 19.69" (0.5m) ³ 76046 76446 15.75 15.75 400 400 16.73 16.73 425 425 12.27 82.3 K3-21 Sloped channel - 39.37" (1m) **76021 76421** 15.75 15.94 400 405 16.73 16.93 425 430 27.59 156.7 **76022 76422** 15.94 16.14 405 410 16.93 17.13 430 435 27.97 157.9 K3-22 Sloped channel - 39.37" (1m) K3-23 Sloped channel - 39.37" (1m) **76023 76423** 16.14 16.34 410 415 17.13 17.32 435 440 28.34 159.1 K3-24 Sloped channel - 39.37" (1m) **76024 76424** 16.34 16.54 415 420 17.32 17.52 440 445 28.72 160.3 K3-25 Sloped channel - 39.37" (1m) 3 **76025 76425** 16.54 16.73 420 425 17.52 17.72 445 450 29.09 161.5 **76026 76426** 16.73 16.93 425 430 17.72 17.91 450 455 29.47 162.7 **76027 76427** 16.93 17.13 430 435 17.91 18.11 455 460 29.84 163.9 K3-26 Sloped channel - 39.37" (1m) K3-27 Sloped channel - 39.37" (1m) K3-28 Sloped channel - 39.37" (1m) **76028 76428** 17.13 17.32 435 440 18.11 18.31 460 465 30.21 165.1 **76029 76429** 17.32 17.52 440 445 18.31 18.50 465 470 30.58 166.3 K3-29 Sloped channel - 39.37" (1m) K3-30 Sloped channel - 39.37" (1m) 3 **76030 76430** 17.52 17.72 445 450 18.50 18.70 470 475 30.95 167.5 K3-030 Constant depth channel - 39.37" (1m) 3 76047 76447 17.72 17.72 450 450 18.70 18.70 475 475 27.87 167.5 K3-0303 Constant depth channel - 19.69" (0.5m) ³ 76048 76448 17.72 17.72 450 450 18.70 18.70 475 475 13.94 89.5 K3-31 Sloped channel - 39.37" (1m) **76031 76431** 17.72 17.91 450 455 18.70 18.90 475 480 31.32 168.7 K3-32 Sloped channel - 39.37" (1m) **76032 76432** 17.91 18.11 455 460 18.90 19.09 480 485 31.69 169.9 **76033 76433** 18.11 18.31 460 465 19.09 19.29 485 490 32.06 171.3 K3-33 Sloped channel - 39.37" (1m) K3-34 Sloped channel - 39.37" (1m) **76034 76434** 18.31 18.50 465 470 19.29 19.49 490 495 32.42 172.3 **76035 76435** 18.50 18.70 470 475 19.49 19.69 495 500 32.79 173.5 K3-35 Sloped channel - 39.37" (1m) 3 K3-36 Sloped channel - 39.37" (1m) **76036 76436** 18.70 18.90 475 480 19.69 19.88 500 505 33.16 174.7 K3-37 Sloped channel - 39.37" (1m) **76037 76437** 18.90 19.09 480 485 19.88 20.08 505 510 33.52 175.9 K3-38 Sloped channel - 39.37" (1m) **76038 76438** 19.09 19.29 485 490 20.08 20.28 510 515 33.88 177.1 **76039 76439** 19.29 19.49 490 495 20.28 20.47 515 520 34.25 178.3 K3-39 Sloped channel - 39.37" (1m) K3-40 Sloped channel - 39.37" (1m) 3 **76040 76440** 19.49 19.69 495 500 20.47 20.67 520 525 34.61 179.5 K3-040 Constant depth channel - 39.37" (1m) 3 76049 76449 19.69 19.69 500 500 20.67 20.67 525 525 31.25 179.5 K3-0403 Constant depth channel - 19.69" (0.5m) 3 76050 76450 19.69 19.69 500 500 20.67 20.67 525 525 15.63 97.7 K3 Universal end/6", 8" & 10" inlet/outlet cap 19.69 19.69 500 500 20.47 20.47 520 520 Installation device 97479 - - - - 4.9 Grate removal tool - - - - - - - 0.7 10458

1. K300 has a galvanized steel edge rail for general use. KS300 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion registance is required.

- 2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 52-53.
- 3. Preformed 6" & 8" dia. drill-outs cast on underside of certain channels (00, 5, 10, 010, 0103, 15, 20, 020, 0203, 25, 30, 030, 0303, 35, 40, 040, 0403).
- 4. Closing/outlet cap can be cut down to suit all channels.
- 5. Catch basin details on page 51.

Polymer concrete catch basins

Polymer concrete catch basins are used either as stand alone area drains or more commonly as the outlet to a trench run. They provide the highest hydraulic output and allow easy access to the pipe system for maintenance.

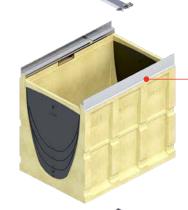
In-line Type 903 and 904 catch basins same width and visually indistinguishable from trench run.

K3-Type 903 12 in. wide In-line catch basin



Grates - choice of grates to match/complement channel with DrainLok™ or QuickLok™ boltless locking. See page 52-53. QuickLok™ grates are — supplied with removable QuickLok™ locking bar for easy access to trash bucket and pipework.

uickLok™ locking bar



Top section - polymer concrete with integrally cast-in galvanized or stainless steel frame. Guides aid connection of male channel ends at - #10, 20, 30 and 40 depths. Other channels can be connected by removing wall to required height. Blanking end rail supplied. See page 155.

Trash bucket - plastic trash bucket designed to collect debris washed from trench run. Supported in catch basin top to avoid creation of a vacuum and reduction in outflow. K3-904 uses deeper bucket with riser.

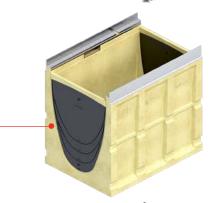
Riser - a plastic riser, supplied with K3-904, designed to provide additional catch basin depth and hydraulic output. Guides enable cutting to size at 2" (50mm) intervals - minimum 2" and maximum 12" height. Additional units can be used (a maximum of 2 is recommended to ensure snake access is maintained and for structural stability). Contact ACO for non-polyethylene riser.

Base - polyethylene bases with wide range of Schedule 40 4", 6" and 8" cut-outs for easy pipe connection. Cut-outs on end and side allow connection of ACO foul air trap. Contact ACO for non-polyethylene bases.

Parts table - K300 Catch basins	Par	t No.	Volume	Weight
Tarts table - R500 Catch basins	K300	KS300	Gallons*	lbs
K3-903 in-line catch basin - 19.69" (0.5m)	94614	94615	30.4	88.0
K3-904 in-line catch basin - 19.69" (0.5m)	94635	94636	40.2	98.0
Series 600 optional riser	999	902	9.8	10.0
Foul air trap	908	854	-	1.2

K3-Type 904
12 in. wide In-line catch basin
(with riser)

QuickLok™ locking bar



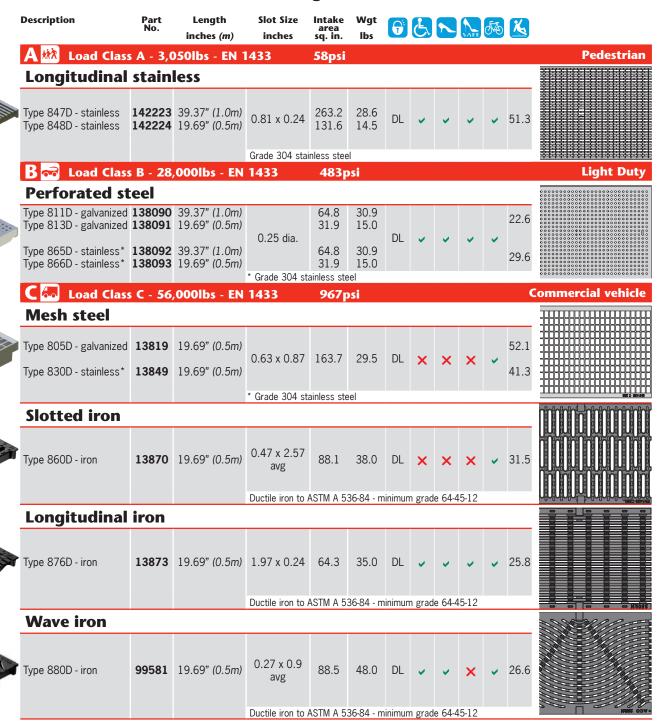




* Volume is up to grate seat and without trash bucket.

www.ACODrain.us www.ACODrain.us Foul

Available K300/KS300 DrainLok™ grates



DrainLok™ - boltless & barless locking system



Push down or stand on grate until it clicks into



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

Available K300/KS300 QuickLok™ grates

	Description	Part No.	Length inches <i>(m)</i>	Slot Size inches	Intake area sq. in.	Wgt lbs	G	F	N	SAFE	Æ	K	
C Load Class	C - 56,000lbs - EN	1433	967psi					Com	mer	cial	veh	icle	
	Decorative in	on											
	Type 881Q - iron	93950	19.69" (0.5m)	0.29 x 0.43 avg	54.6 ASTM A 53	47.0 86-84 - mi	QL	grade	×	× 5-12	~	38.8	
፟ጜጚ፟፝፞፞፞ዾፙጜጚ፟፟፟፟፟ዾፙጜጚ፟ ፞፞፞ዿፚኯኯዿፚኯኯዿፚኯ	Mosaic iron												
	Type 879Q - iron	93958	19.69" (0.5m)	0.30 x 0.98 avg	47.0	47.3	QL	grade	X	X	~	24.6	
F In Load Class	E - 135,000lbs - EN	1433	2,321r		ASTIVI A 33	0-04 - 111	mimum	grade	04-4		lust	rial	
	Longitudinal		_/5										
	Type 878Q - iron		19.69" (0.5m)	1.0 x 0.31 Ductile iron to A	61.8 ASTM A 53	52.9	QL	grade	• 64-45	5-12	~	25.8	
	Slotted iron							8.44	, , , ,				•
	Type 861Q - iron	10431	19.69" (0.5m)	0.39 x 5.71 Ductile iron to A		56.0 86-84 - mi		×		X 5-12	•	50.8	

QuickLok™ - boltless locking system

K300 channels use

hold in place.

Heel safe equal or less than 0.25"



Locking mechanism

(6.5mm) (**Page 140**)

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

To install grate, align QuickLok™ stud directly over locking



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



Grate removal To remove first grate, To remove bar, insert

insert grate removal tool into slots at end of Remaining grates can be removed by hand.

screwdriver into hole at end of bar and lever grate, pull up sharply. back serrated end; rotate bar free.



ASME A112.6.3 - 2001 Heel resistant less than 0.31" (8mm) (**Page 140**)



Anti-slip grates - BPN over 24 (Page 140)

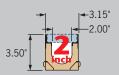
Compliant with Americans with Disabilities Act of 1990 Section 4.5.4 (Page 140)

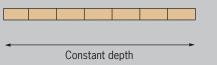
Bicycle Safe compliant to Australian Standard AS 3996 - 2006 (Page 140)

MiniKlassik K50/KS50 - 2" wide general purpose system

MiniKlassik K50/ KS50

Key Dimensions





Typical applications

- Aesthetic areas
- Pedestrian plazas
- Sidewalks
- Paved areas

Selection criteria



Light to medium duty loads



Product can be used towards LEED & EPA requirements



Resistant to many everyday chemicals. *Check page 139*









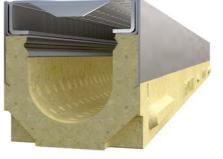
Multiple grate options to meet design requirements



Limited hydraulic capacity



Constant depth channels



K50 is a 2" internal width system with galvanized steel edge rail for high profile, aesthetic applications where a 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 increased aesthetics are required, or where increased corrosion resistance is required.

EN 1433 does not cover grates for 2" (50 mm) internal width trench drains, but grates have been load tested in accordance with EN 1433 guidelines. Grates feature patented DrainLok™ boltless locking systems. Loading is determined by grate up to Load Class C (25 ton).





www.ACODrain.us

MiniKlassik features



DrainLok™ - Patented, boltless locking system provides quick fitting and removal of grates.

Helps reduce installation/ maintenance time and cost. **Choice of grates - Various** materials and styles (including ADA compliant) for applications from Load Class A to Load Class C.

Anti-shunt lugs -Recesses in grate fit around lugs on the edge rail to prevent longitudinal

movement.



2 in. internal width trench system - Meter (39.37") channels. 'U' shaped bottom improves flow hydraulics.

1.5 in. Sch. 40 drill-out - Allows vertical evacuation at male end of 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.

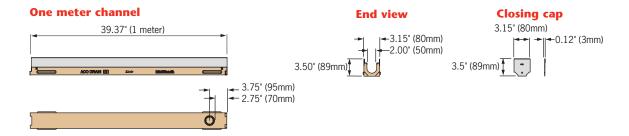


MiniKlassik Parts table

Description	Part No.		Invert	Depth	Overall	Depth	Volume	Weight	
	K50	KS50	inches	mm	inches	mm	Gallons	lbs	
Constant depth channel - 39.37" (1m)	04071	06750	2.90	74	3.50	89	0.64	18.0	
Steel closing cap	95395	95403	-	-	3.50	89	-	0.3	

Notes:

- 1. Preformed 1.5" dia. drill-out outlet on underside of channel provides a flow rate of 12.7GPM 0.03CFS.
- 2. MiniKlassik does not fit with any ACO catch basin discharge through vertical outlet only or contact ACO for additional advice.



Available K50/KS50 DrainLok™ grates

	Description	Part No.	Length inches <i>(m)</i>	Slot Size inches	Intake area sq. in.	Wgt lbs	6	F		SAFE	Æ	K	
A 🚻 Load Class A	A - 3,500lbs - EN 1	433	70psi							Ped	lestr	ian	
	Perforated st	eel											
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type 210D - galvanized Type 251D - stainless*			0.23 dia.	14.5 14.5	4.0 4.0	DL	~	V	¥	~	23.9	
				* Grade 304 st	ainless ste	el							
	Slotted steel												
000000000	Type 220D - galvanized Type 250D - stainless*	138102 138103	39.37" (1.0m) 39.37" (1.0m)	0.38 x 1.35	18.7 18.7	4.0 4.0	DL	×	×	×	~	24.4	6
OO\				* Grade 304 sta	ainless ste	el							
	Mosaic plasti	C											
ソヘニンヘニンへ	Type 200D - black Type 201D - gray Type 202D - tan	138105	19.69" (0.5m) 19.69" (0.5m) 19.69" (0.5m)	0.3 x 1.2 avg	11.6	0.7	DL	~	V	×	•	NA	
	71.			HDPE high den	sity polyet	hylene							
B 😽 Load Class E	3 - 28,000lbs - EN	1433	581psi	ŭ	, ,					Lig	ht d	uty	
	Longitudinal	steel											
	Type 247D - stainless	142227	39.37" (1.0m)	1.46 x 0.24	14.9	5.9	DL	~	V	~	~	31.6	A.
				Grade 304 stai	nless stee	l		,	,				,
C 😓 Load Class (C - 56,000lbs - EN	1433	1,162ps	i				Con	mei	cial	veh	icle	
	Longitudinal	iron											
	Type 276D - iron	138107	19.69" (0.5m)	1.5 x 0.29	17.4	7.3	DL	~	V	×	~	21.1	
<u> </u>				Ductile iron to	ASTM A 5	36-84 - n	ninimur	n grac	le 64-4	15-12			





Locking mechanism



Heel safe equal or less than 0.25" (6.5 mm) (**Page 140**)



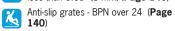
Compliant with Americans with Disabilities Act of 1990 Section 4.5.4 (Page 140) Bicycle Safe compliant to Australian

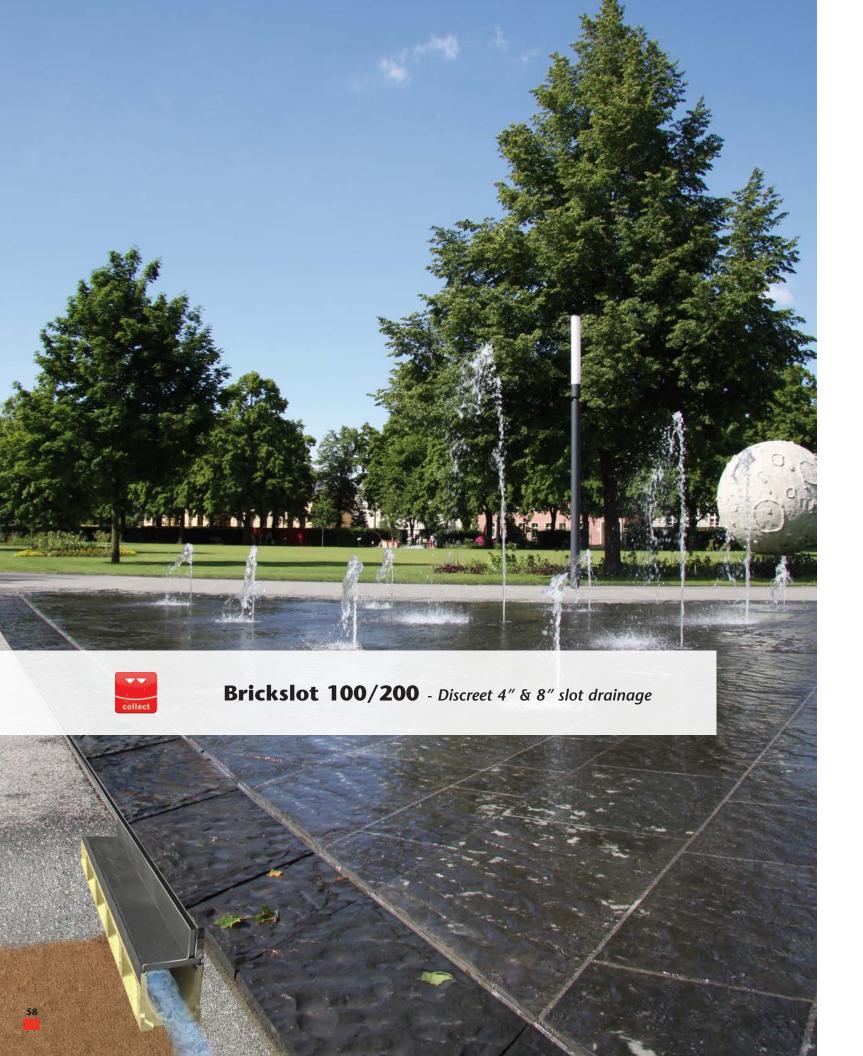
Standard AS 3996 - 2006 (**Page 140**)



ASME A112.6.3 - 2001 Heel resistant ASME A112.6.3 - 2001 Treer resistant less than 0.31" (8 mm) (**Page 140**)











Brickslot is a discreet drainage solution for use with 3 1/8" or less brick or stone pavers. The slot(s) blend in with the paving joints giving an aesthetic solution.

Brickslot 100 offers a single, offset slot, or a twin Heel Resistant slot option. Brickslot 200 offers increased capacity via a double spaced 'Twinslot', or a central twin Heel Resistant

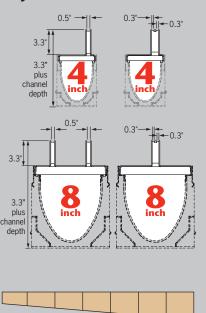
Stainless steel Brickslot is the same system, but is manufactured entirely in grade 304 stainless steel. Stainless steel Brickslot should be used where increased aesthetics are desired, or where increased corrosion resistance is required.





Brickslot 100/200

Key Dimensions



Typical applications

131' continuous slope

- Aesthetic areas
- Pedestrian plazas
- Sidewalks
- Paved areas

Selection criteria



Light to medium duty loads



Product can be used towards LEED & EPA requirements



Resistant to many everyday chemicals. Check page 139



Multiple grate options to meet legal requirements





Multiple grate options to meet design requirements



General everyday or increased hydraulic capacity



Constant depth and/or sloped depth channels

Brickslot 100/200 **ACO DRAIN**

Brickslot 100 features

1/2 in. (12mm) slot - Easy to clean smooth slots allow continuous water flow into channel (shown). Offset, heel resistant double $\frac{3}{8}$ " (8mm) flared slot opening

to 1" (25mm) throat for increased drainage

capacity (not shown).

End caps and accessories - Are available from the K100 range. See page 28 for

details.

Brick pavers - Fit directly against slot. For light duty pedestrian applications, pavers can be set on sand; for heavier duty projects, pavers should be set on concrete. Maximum paver depth (allowing for 1/4" (6mm) bedding material): 31/8" (80mm).

> Used with K100 channel - Brickslot fits directly into K100 channel grate recess. Half meter sections are available. Half meter access units provide access to channel or catch basin for maintenance. See page 28 for details.

Brick pavers - Fit directly against slot.

pavers can be set on sand; for heavier duty

projects, pavers should be set on concrete.

Used with K200 channel -Brickslot fits directly into K200

channel grate recess. Half meter

sections are available. Half meter

access units provide access to channel

or catch basin for maintenance.

See page 40 for details.

For light duty pedestrian applications,

Maximum paver depth (allowing for 1/4"

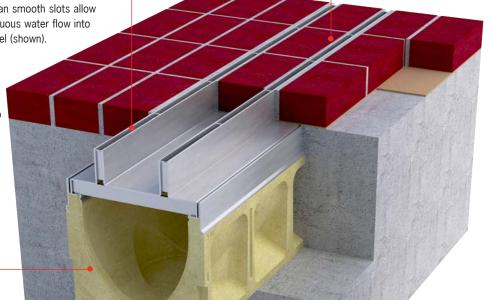
(6mm) bedding material): 31/8" (80mm).

Brickslot 200 features

Two 6 in. parallel 1/2 in. (12mm) slots - Easy to clean smooth slots allow continuous water flow into channel (shown).

Central, heel resistant double 3/8" (8mm) flared slot opening to 1" (25mm) throat for increased drainage capacity (not shown).

End caps and accessories - Are available from the K200 range. See page 40 for details.

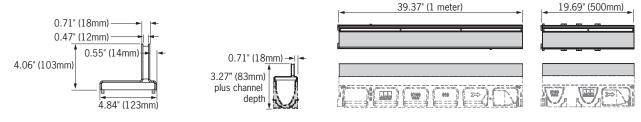


Brickslot Parts table

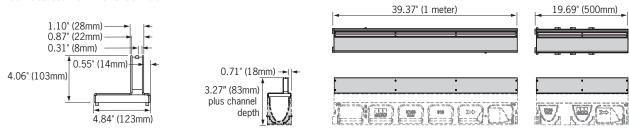
Description		t No.	Overall Depth		Weight			E
	Galv.	Stainless	inches	mm	lbs	G		(Ma)
Type 441/443 - Brickslot 100 - 39.37" (1m)	138040	138045	4.06	103	17.6	~	X	~
Type 442/444 - Brickslot 100 - 19.69" (0.5m)	138041	138046	4.06	103	9.0	~	X	~
Type 482/484 - Brickslot 100 - access unit - 19.69" (0.5m) ³	138042	138047	4.06	103	10.8	~	X	~
Type 470/472 - Heel Resistant Brickslot 100 - 39.37" (1m)	138050	138055	4.06	103	18.0	~	~	~
Type 471/473 - Heel Resistant Brickslot 100 - 19.69" (0.5m)	138051	138056	4.06	103	9.2	~	~	~
Type 483/485 - Heel Resistant Brickslot 100 access unit - 19.69" (0.5m) ³	138152	138057	4.06	103	11.0	~	~	~
Type 641/643 - Twinslot 200 - 39.37" (1m)	138060	138065	4.45	113	36.3	~	X	~
Type 642/644 - Twinslot 200 - 19.69" (0.5m)	138061	138066	4.45	113	18.7	~	X	~
Type 682/684 - Twinslot 200 access unit - 19.69" (0.5m) ³	138062	138067	4.45	113	22.4	~	X	~
Type 670/673 - Heel Resistant Brickslot 200 - 39.37" (1m)	138070	138075	4.45	113	28.2	~	V	~
Type 672/674 - Heel Resistant Brickslot 200 - 19.69" (0.5m)	138071	138076	4.45	113	17.8	~	~	~
Type 683/685 - Heel Resistant Brickslot 200 access unit - 19.69" (0.5m) 3	138072	138077	4.45	113	20.4	~	~	~
Grate removal tool ⁴	01	318	-	-	0.3	-	-	-
Notae:								

- 1. For K100 channels and K1-900 catch basin information see page 28. For K200 channels and K2-900 catch basin information see page 40.
- 2. Brickslot can also be used with SlabDrain HK channels see page 102.
- 3. Access unit can be used on channels or catch basins for details please refer to separate Spec Info sheets.
- 4. Only access cover can be removed once Brickslot has been installed.
- 5. For custom slot widths/heights, contact Aquaduct at (800) 543-4764.

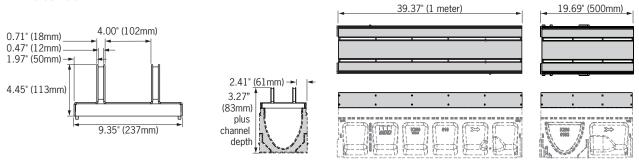
Brickslot 100 -



Heel Resistant Brickslot 100



Twinslot 200



Heel Resistant Brickslot 200

