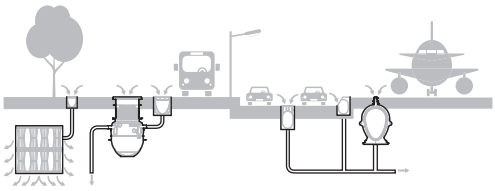
ACO External Drainage

ACO DRAIN

KlassikDrain Line



K50 - 2" internal width, steel edge channel

K100 - 4" internal width, steel edge channel

K200 - 8" internal width, steel edge channel

K300 - 12" internal width, steel edge channel

ACO DRAIN

ACO Drain is the market leading modular trench drain system and is ideal for commercial applications varying from gas stations to airports.

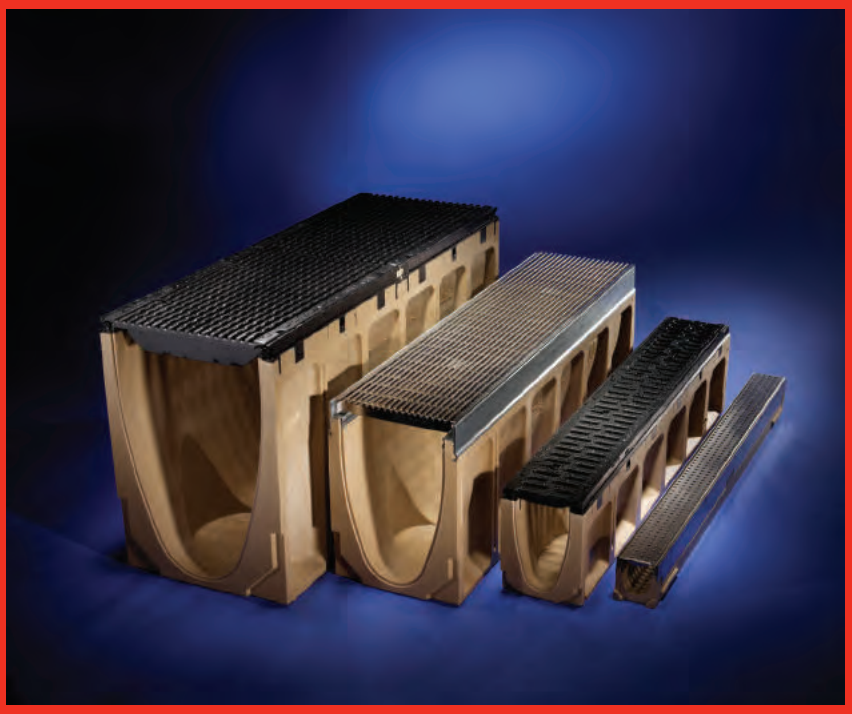
ACO Drain systems consist of factory manufactured, modular channel units made from either corrosion-resistant, polymer concrete or fiberglass, together with grates from a variety of materials for all loading applications. ACO Drain systems are available in 2", 4", 8" and 12" internal widths, and most systems are available with a built-in slope for up to 130 ft (40 meters) of continuous slope.

The ACO Drain product line is segmented into different product types depending on use:

1. KlassikDrain
KlassikDrain - K100/K200/K300
MiniKlassik - K50
Brickslot

2. PowerDrain
PowerDrain - S100K/S200K/S300K

2. Slab Solutions
SlabDrain
FlowDrain
MembraneDrain



KlassikDrain

KlassikDrain is a general purpose trench drain system with choice of galvanized or stainless steel edge rail. A variety of grates are available in different materials and slot styles up to EN 1433 Load Class E (60 ton loading).

KlassikDrain is available in 2" (K50), 4" (K100), 8" (K200) and 12" (K300) internal width systems and features the patented DrainLok™ and QuickLok™ boltless locking systems.

KlassikDrain with an integrally cast-in galvanized steel edge rail is the most commonly used product type.

KS50/KS100/KS200/KS300 are the same systems but with a grade 304 stainless steel edge rail, and are typically used where increased aesthetics, or corrosion resistance is required.

For a more discreet drainage solution, refer to Brickslot product brochure, the ACO Drain Technical Handbook, or contact your nearest ACO sales office for details.

Typical applications

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

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.

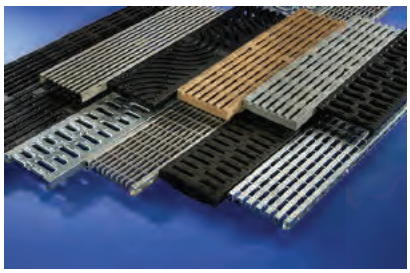
Design criteria for grate

- 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. Visit www.ACODrain.us for details.



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.

Freestyle grates

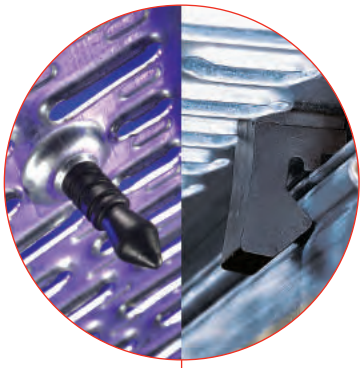
ACO offers a semi-custom option with the opportunity to design the top surface look of an iron grate to complement your project design.

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.

KlassikDrain features

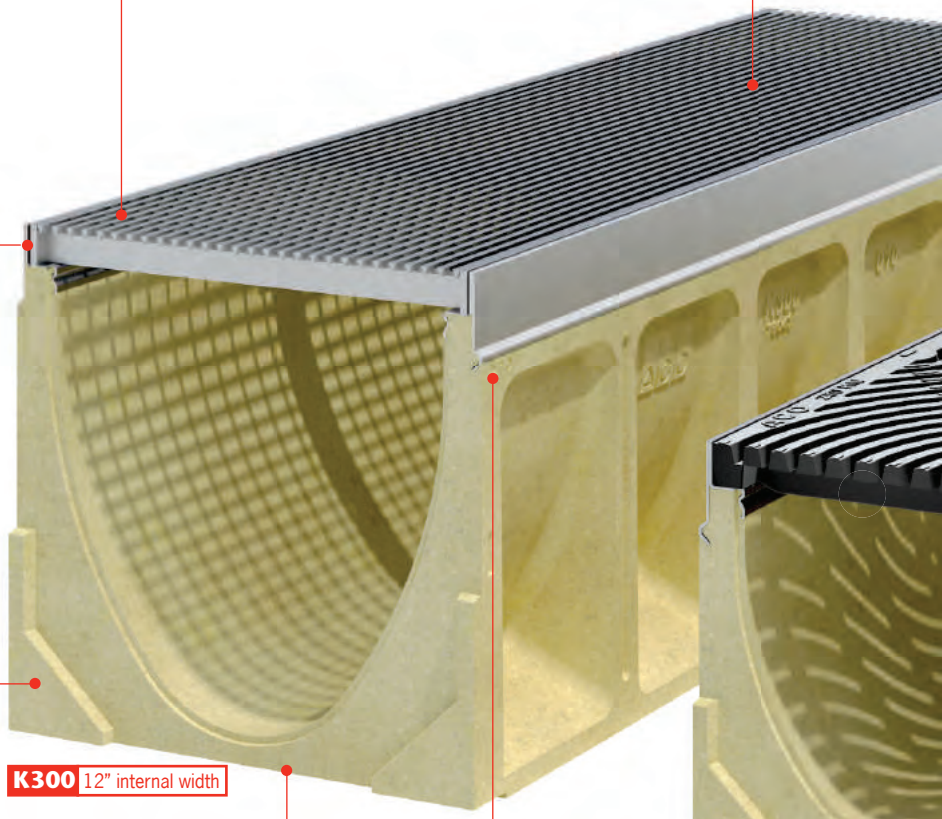
Wide choice of grates - In various materials and styles (including ADA compliant) for applications from Load Class A to Load Class E.



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

Steel edge rail - Provides additional strength and protects channel body from damage. Stainless steel edge rail also available.

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

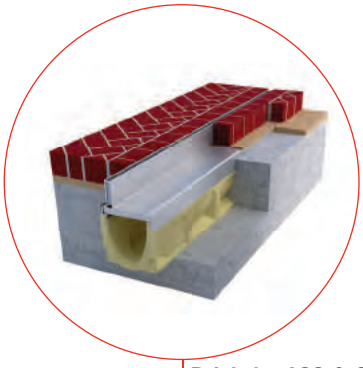


K300 12" internal width

K200 8" internal width

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

Knock-outs - Included on certain channel units to allow vertical evacuation of the system along the run. See Product table for details.



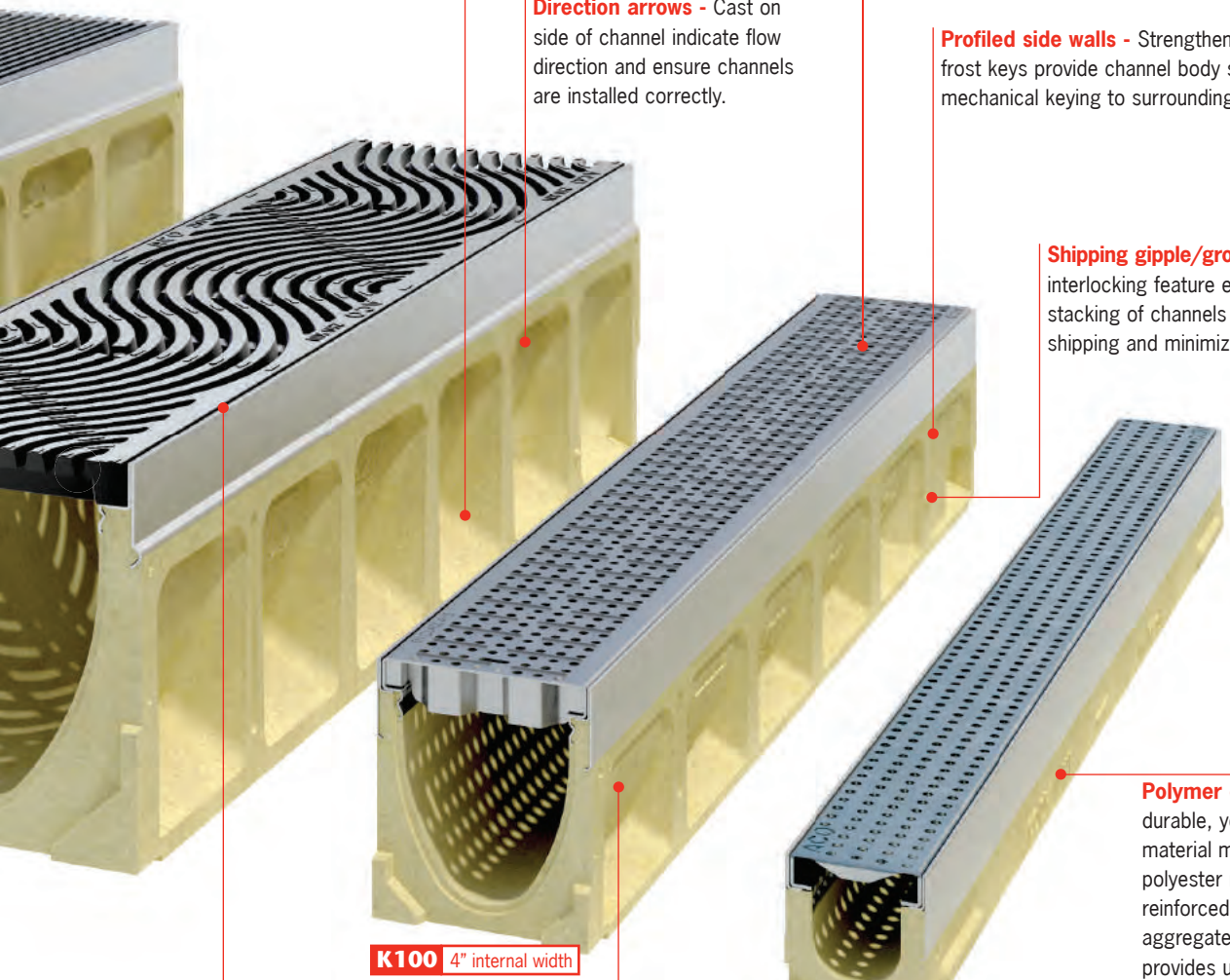
Channel identification - Channels feature numbering on sidewalls and base of channel, allowing easy identification after concrete encasement.

Brickslot 100 & 200 - A discreet drainage solution for use with brick or stone pavers. Standard, Heel Resistant and Twinslot versions available.

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

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

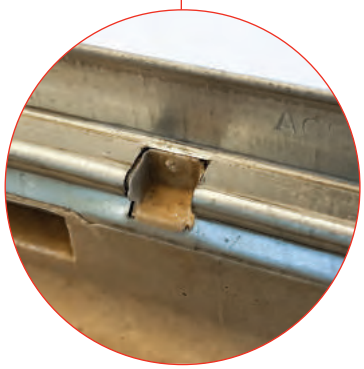
Shipping gipple/groove - Side interlocking feature ensures safer stacking of channels on pallets for shipping and minimizes breakage.



K100 4" internal width

K50 2" internal width

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

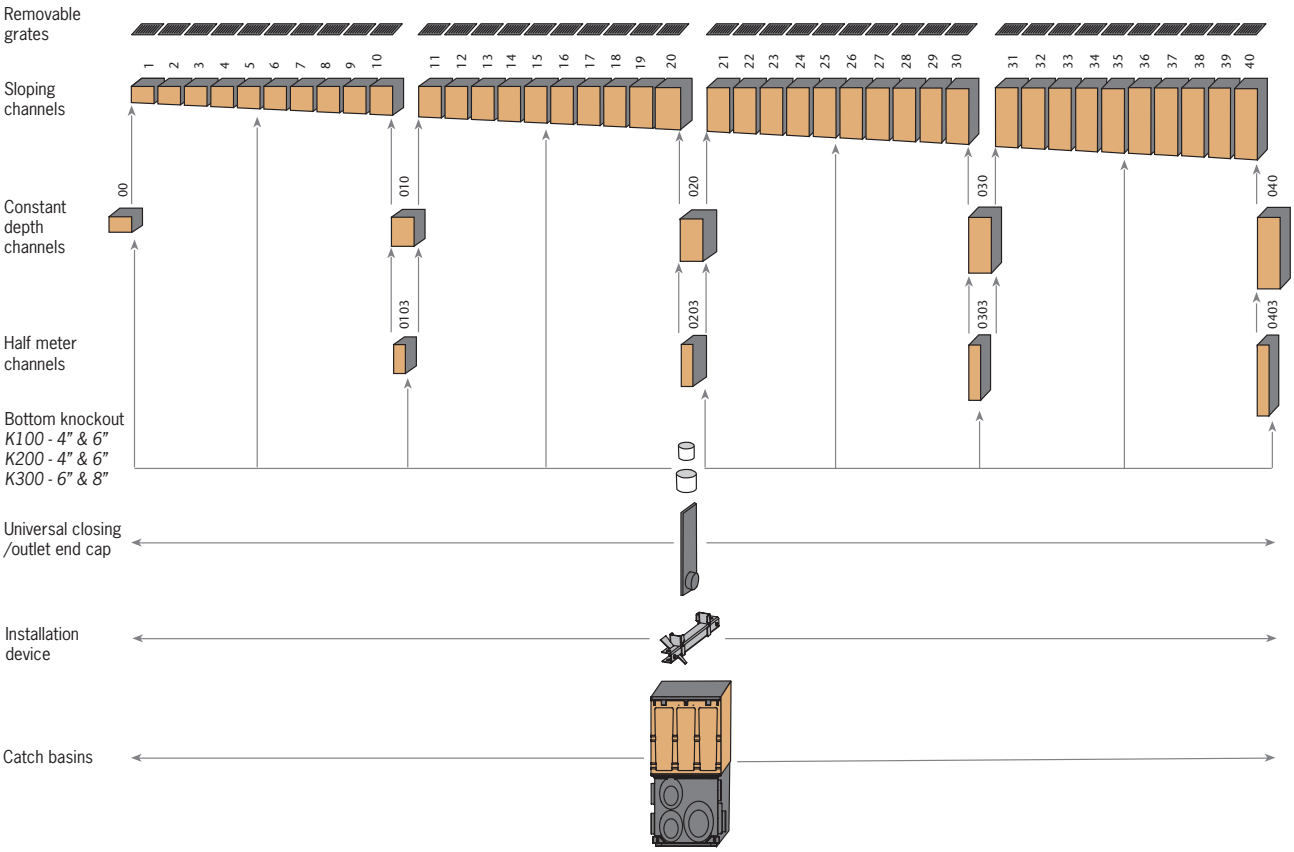


Anti-shunt lugs - Protrusions in grate fit into recesses on the edge rail to prevent longitudinal movement.

Sloped (0.5%) channel units - Meter long units provide 131'-3" continuous slope equating to $^{1}/_{17}$" fall per linear foot. Constant depth units can be used to extend run lengths.

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.

Typical system layout - K100/K200/K300



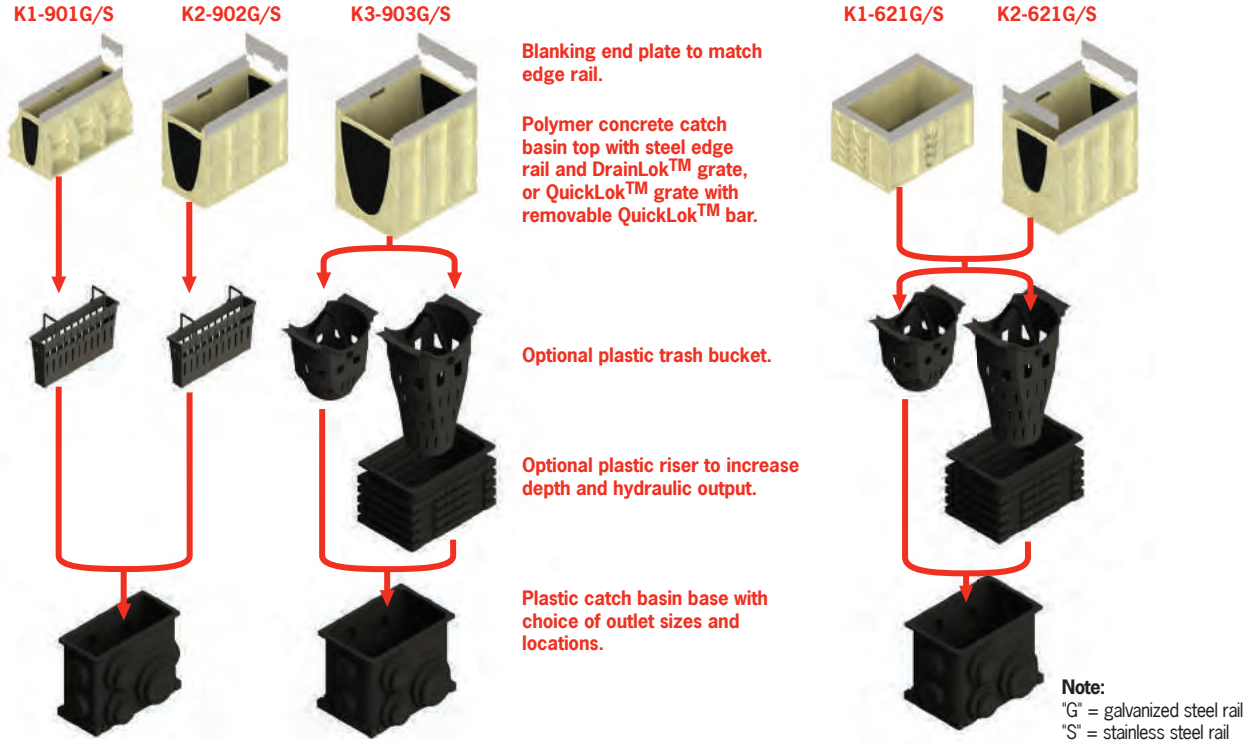
Catch basin options

In-line catch basins

Type 900 in-line catch basins are the same width as the trench run. Uses same grate as trench run for seamless aesthetics.

Type 600 catch basins

Type 600 catch basins are 12" wide, providing greater hydraulic output and maintenance access. K300 grates match/complement trench run.



Note:
"G" = galvanized steel rail
"S" = stainless steel rail

K1-901 & K2-902 in-line catch basins use same base.

Parts table

	K100 - 4" internal width				K200 - 8" internal width				K300 - 12" internal width			
	Part No		Invert	Weight	Part No		Invert	Weight	Part No		Invert	Weight
	Galv	S/S	Inches②	Lbs	Galv	S/S	Inches②	Lbs	Galv	S/S	Inches②	Lbs
00 Constant depth channel - 39.37" (1m)①	**74041**	**74441**	**3.94**	**28.1**	**75041**	**75441**	**7.87**	**83.6**	**76041**	**76441**	**11.81**	**132.6**
1 Sloped channel - 39.37" (1m)	**74001**	**74401**	4.13	28.1	**75001**	**75401**	8.07	83.6	**76001**	**76401**	12.01	132.6
2 Sloped channel - 39.37" (1m)	**74002**	**74402**	4.33	28.9	**75002**	**75402**	8.27	84.7	**76002**	**76402**	12.20	133.8
3 Sloped channel - 39.37" (1m)	**74003**	**74403**	4.53	29.7	**75003**	**75403**	8.46	85.8	**76003**	**76403**	12.40	135.0
4 Sloped channel - 39.37" (1m)	**74004**	**74404**	4.72	30.5	**75004**	**75404**	8.66	86.9	**76004**	**76404**	12.60	136.2
5 Sloped channel - 39.37" (1m)①	**74005**	**74405**	4.92	31.3	**75005**	**75405**	8.86	88.0	**76005**	**76405**	12.80	137.4
6 Sloped channel - 39.37" (1m)	**74006**	**74406**	5.12	32.1	**75006**	**75406**	9.06	89.1	**76006**	**76406**	12.99	138.6
7 Sloped channel - 39.37" (1m)	**74007**	**74407**	5.31	32.9	**75007**	**75407**	9.25	90.2	**76007**	**76407**	13.19	139.8
8 Sloped channel - 39.37" (1m)	**74008**	**74408**	5.51	33.7	**75008**	**75408**	9.45	91.3	**76008**	**76408**	13.39	141.0
9 Sloped channel - 39.37" (1m)	**74009**	**74409**	5.71	34.5	**75009**	**75409**	9.65	92.4	**76009**	**76409**	13.58	142.2
10 Sloped channel - 39.37" (1m)①	**74010**	**74410**	5.91	35.3	**75010**	**75410**	9.84	93.5	**76010**	**76410**	13.78	143.4
010 Constant depth channel - 39.37" (1m)①	**74043**	**74443**	**5.91**	**35.3**	**75043**	**75443**	**9.84**	**93.5**	**76043**	**76443**	**13.78**	**143.4**
0103 Constant depth channel - 19.69" (0.5m)①	**74044**	**74444**	**5.91**	**17.0**	**75044**	**75444**	**9.84**	**56.0**	**76044**	**76444**	**13.78**	**75.3**
11 Sloped channel - 39.37" (1m)	**74011**	**74411**	6.10	36.1	**75011**	**75411**	10.04	94.6	**76011**	**76411**	13.98	144.6
12 Sloped channel - 39.37" (1m)	**74012**	**74412**	6.30	36.9	**75012**	**75412**	10.24	95.7	**76012**	**76412**	14.17	145.8
13 Sloped channel - 39.37" (1m)	**74013**	**74413**	6.50	37.7	**75013**	**75413**	10.43	96.8	**76013**	**76413**	14.37	147.0
14 Sloped channel - 39.37" (1m)	**74014**	**74414**	6.69	38.5	**75014**	**75414**	10.63	97.9	**76014**	**76414**	14.57	148.2
15 Sloped channel - 39.37" (1m)①	**74015**	**74415**	6.89	39.3	**75015**	**75415**	10.83	99.0	**76015**	**76415**	14.76	149.4
16 Sloped channel - 39.37" (1m)	**74016**	**74416**	7.09	40.1	**75016**	**75416**	11.02	100.1	**76016**	**76416**	14.96	150.6
17 Sloped channel - 39.37" (1m)	**74017**	**74417**	7.28	40.9	**75017**	**75417**	11.22	101.2	**76017**	**76417**	15.16	151.8
18 Sloped channel - 39.37" (1m)	**74018**	**74418**	7.48	41.7	**75018**	**75418**	11.42	102.3	**76018**	**76418**	15.35	153.0
19 Sloped channel - 39.37" (1m)	**74019**	**74419**	7.68	42.5	**75019**	**75419**	11.61	103.4	**76019**	**76419**	15.55	154.2
20 Sloped channel - 39.37" (1m)①	**74020**	**74420**	7.87	43.4	**75020**	**75420**	11.81	104.5	**76020**	**76420**	15.75	155.4
020 Constant depth channel - 39.37" (1m)①	**74045**	**74445**	**7.87**	**43.4**	**75045**	**75445**	**11.81**	**104.5**	**76045**	**76445**	**15.75**	**155.4**
0203 Constant depth channel - 19.69" (0.5m)①	**74046**	**74446**	**7.87**	**20.5**	**75046**	**75446**	**11.81**	**64.0**	**76046**	**76446**	**15.75**	**82.3**
21 Sloped channel - 39.37" (1m)	**74021**	**74421**	8.07	44.2	**75021**	**75421**	12.01	105.6	**76021**	**76421**	15.94	156.7
22 Sloped channel - 39.37" (1m)	**74022**	**74422**	8.27	45.0	**75022**	**75422**	12.20	106.7	**76022**	**76422**	16.14	157.9
23 Sloped channel - 39.37" (1m)	**74023**	**74423**	8.46	45.8	**75023**	**75423**	12.40	107.8	**76023**	**76423**	16.34	159.1
24 Sloped channel - 39.37" (1m)	**74024**	**74424**	8.66	46.6	**75024**	**75424**	12.60	108.9	**76024**	**76424**	16.54	160.3
25 Sloped channel - 39.37" (1m)①	**74025**	**74425**	8.86	47.4	**75025**	**75425**	12.80	110.0	**76025**	**76425**	16.73	161.5
26 Sloped channel - 39.37" (1m)	**74026**	**74426**	9.06	48.2	**75026**	**75426**	12.99	111.1	**76026**	**76426**	16.93	162.7
27 Sloped channel - 39.37" (1m)	**74027**	**74427**	9.25	49.0	**75027**	**75427**	13.19	112.2	**76027**	**76427**	17.13	163.9
28 Sloped channel - 39.37" (1m)	**74028**	**74428**	9.45	49.8	**75028**	**75428**	13.39	113.3	**76028**	**76428**	17.32	165.1
29 Sloped channel - 39.37" (1m)	**74029**	**74429**	9.65	50.6	**75029**	**75429**	13.58	114.4	**76029**	**76429**	17.52	166.3
30 Sloped channel - 39.37" (1m)①	**74030**	**74430**	9.84	51.4	**75030**	**75430**	13.78	115.5	**76030**	**76430**	17.72	167.5
030 Constant depth channel - 39.37" (1m)①	**74047**	**74447**	**9.84**	**51.4**	**75047**	**75447**	**13.78**	**115.5**	**76047**	**76447**	**17.72**	**167.5**
0303 Constant depth channel - 19.69" (0.5m)①	**74048**	**74448**	**9.84**	**24.0**	**75048**	**75448**	**13.78**	**68.0**	**76048**	**76448**	**17.72**	**89.5**
31 Sloped channel - 39.37" (1m)	**74031**	**74431**	10.04	52.2	**75031**	**75431**	13.98	116.6	**76031**	**76431**	17.91	168.7
32 Sloped channel - 39.37" (1m)	**74032**	**74432**	10.24	53.0	**75032**	**75432**	14.17	117.7	**76032**	**76432**	18.11	169.9
33 Sloped channel - 39.37" (1m)	**74033**	**74433**	10.43	53.8	**75033**	**75433**	14.37	118.8	**76033**	**76433**	18.31	171.1
34 Sloped channel - 39.37" (1m)	**74034**	**74434**	10.63	54.6	**75034**	**75434**	14.57	119.9	**76034**	**76434**	18.50	172.3
35 Sloped channel - 39.37" (1m)①	**74035**	**74435**	10.83	55.4	**75035**	**75435**	14.76	121.0	**76035**	**76435**	18.70	173.5
36 Sloped channel - 39.37" (1m)	**74036**	**74436**	11.02	56.2	**75036**	**75436**	14.96	122.1	**76036**	**76436**	18.90	174.7
37 Sloped channel - 39.37" (1m)	**74037**	**74437**	11.22	57.0	**75037**	**75437**	15.16	123.2	**76037**	**76437**	19.09	175.9
38 Sloped channel - 39.37" (1m)	**74038**	**74438**	11.42	57.9	**75038**	**75438**	15.35	124.3	**76038**	**76438**	19.29	177.1
39 Sloped channel - 39.37" (1m)	**74039**	**74439**	11.61	58.7	**75039**	**75439**	15.55	125.4	**76039**	**76439**	19.49	178.3
40 Sloped channel - 39.37" (1m)①	**74040**	**74440**	11.81	59.5	**75040**	**75440**	15.75	126.5	**76040**	**76440**	19.69	179.5
040 Constant depth channel - 39.37" (1m)①	**74049**	**74449**	**11.81**	**59.5**	**75049**	**75449**	**15.75**	**126.5**	**76049**	**76449**	**19.69**	**179.5**
0403 Constant depth channel - 19.69" (0.5m)①	**74050**	**74450**	**11.81**	**27.5**	**75050**	**75450**	**15.75**	**77.0**	**76050**	**76450**	**19.69**	**97.7**
Type 900 In-line catch basin - 19.69" (0.5m)③	**94608**	**94609**	-	52.6	**94611**	**94612**	-	68.0	**94614**	**94615**	-	88.0
Type 900 In-line plastic trash bucket	**01498**		-	1.1	**13999**		-	1.2	**Use Type 600**		-	-
621G/621S catch basin - 19.69" (0.5m)③	**94617**	**94618**	-	55.8	**94620**	**94621**	-	91.0	-	-	-	-
631G/631S catch basin - 19.69" (0.5m)④	**94631**	**91632**	-	65.8	**94633**	**94634**	-	91.0	-	-	-	-
Removable QuickLok locking bar (QL grates only)	**98717**		-	0.1	**10457**		-		**10458**		-	
Type 600 Optional plastic riser	**99902**		-	10.0	**99902**		-	10.0	**99902**		-	10.0
Type 600 plastic trash bucket - short	**98653**		-	3.5	**98653**		-	3.5	**98653**		-	3.5
Type 600 plastic trash bucket - deep	**98665**		-	4.0	**98665**		-	4.0	**98665**		-	4.0
Foul air trap - fits both 900 & 600 basins	**90854**		-	1.2	**90854**		-	1.2	**90854**		-	1.2
K1-304-6 6" Inlet Cap	**96839**	**96844**	9.84	5.2	-	-	-	-	-	-	-	-
K1-308-6 6" Outlet Cap	**96840**	**96845**	9.84	5.0	-	-	-	-	-	-	-	-
K1-404-6 6" Inlet Cap	**96834**	**96846**	11.81	6.0	-	-	-	-	-	-	-	-
K1-408-6 6" Outlet Cap	**96836**	**96847**	11.81	5.8	-	-	-	-	-	-	-	-
Universal end cap	**96822**		11.81	0.4	**96821**		15.75	1.4	**96826**		19.69	2.5
Debris strainer for 4" bottom knockout	**93488**		-	0.2	**93488**		-	0.2	**-**		-	-
4" Oval to 6" round outlet adaptor	**95140**		-	1.1	**-**		-	-	**-**		-	-
Installation device	**97477**		-	2.8	**97478**		-	4.0	**97479**		-	4.9
QuickLok locking bar (use with QuickLok grates)	**02899**		-	0.1	**10457**		-	0.5	**10458**		-	0.7
Grate removal tool	**01318**		-	0.3	**01318**		-	0.3	**01318**		-	0.3

Notes:

1. This channel offers bottom knockout feature; K100 - 4" round/6" oval, K200 - 4" & 6" round, K300 - 6" & 8" round.
2. Inverts shown are male end; for female invert depth - subtract 0.2" from male invert (except constant depth channels where it will be same as male invert).
   To calculate overall channel depth; K100 - add 0.8" to invert depth; K200/K300 - add 1.0" to invert depth.
3. Catch basin assembly: Polymer concrete top with galvanized (G)/stainless (S) edge rail, blanking end kit, trash bucket and plastic base. Select appropriate grate (& locking bar) to suit.
4. Catch basin assembly: Polymer concrete top with galvanized (G)/stainless (S) edge rail, blanking end kit, deep trash bucket, riser and plastic base. Select appropriate grate (& locking bar) to suit.

DrainLok™ - boltless & barless locking system

DrainLok™ removes the need for bolts and bars, improving channel hydraulics. 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, improving system durability and longevity.

1 Position grate

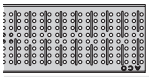
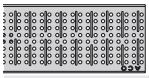
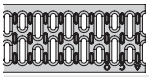
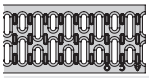
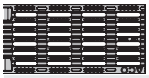
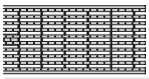
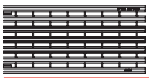
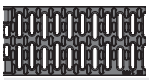
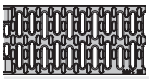
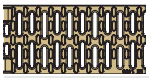
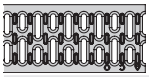
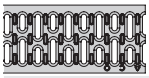
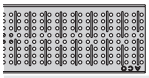
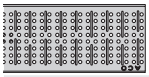
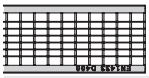
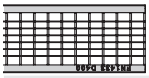
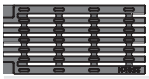
Position grate onto channel and align anti-shunt detail with recess in rail.

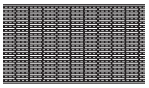
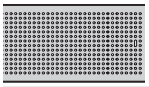
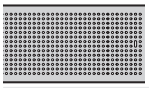
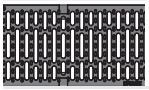
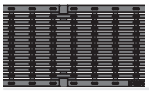
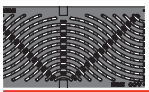
2 Lock grate

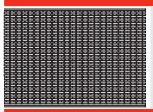
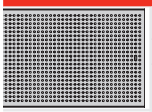
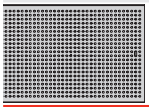
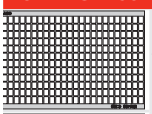
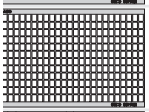
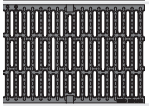
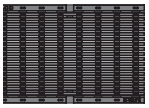
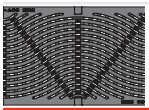
Push down or stand on grate until it clicks into position.

3 Grate removal

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

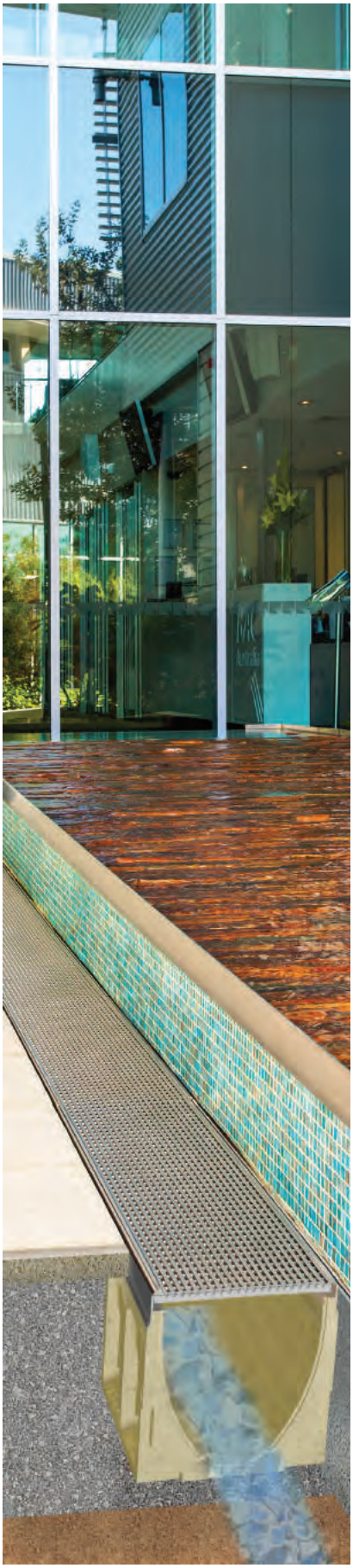
K100/KS100 DrainLok™ grates	Length mm	Part No	Wgt lbs					
LOAD CLASS A - EN 1433 - 3,500lbs - 70psi								
 Type 410D Galv perforated Type 412D Galv perforated	1000 500	**12666** **12667**	6.3 3.2	✓	✓	✓	✓	22.6
 Type 451D S/S perforated Type 453D S/S perforated	1000 500	**12664** **12665**	6.3 3.2	✓	✓	✓	✓	29.6
 Type 420D Galv slotted Type 421D Galv slotted	1000 500	**12610** **12611**	5.9 3.0	×	×	×	✓	27.4
 Type 450D S/S slotted Type 452D S/S slotted	1000 500	**12640** **12641**	5.9 3.0	×	×	×	✓	29.9
 Type 494D Black plastic longitudinal	500	**99575**	1.8	✓	×	×	✓	52.5
 Type 495D Gray plastic longitudinal	500	**99576**	1.8	✓	×	×	✓	52.5
 Type 496D Tan plastic longitudinal	500	**99577**	1.8	✓	×	×	✓	52.5
LOAD CLASS B - EN 1433 - 28,000lbs - 581psi								
 Type 447D S/S longitudinal Type 448D S/S longitudinal	1000 500	**142215** **142216**	8.0 4.0	✓	✓	✓	✓	51.3
 Type 438D Galv longitudinal Type 437D Galv longitudinal	1000 500	**132555** **132550**	10.0 4.2	✓	✓	×	✓	42.3
LOAD CLASS C - EN 1433 - 56,000lbs - 1,162psi								
 Type 492D Black composite slotted	500	**132720**	2.2	×	✓	×	✓	86.4
 Type 497D Gray composite slotted	500	**132266**	2.2	×	✓	×	✓	35.6
 Type 498D Tan composite slotted	500	**132712**	2.2	×	✓	×	✓	35.6
 Type 425D Galv slotted Type 426D Galv slotted	1000 500	**12614** **12615**	8.8 4.4	×	×	×	✓	27.4
 Type 455D S/S slotted Type 457D S/S slotted	1000 500	**12644** **12645**	8.8 4.4	×	×	×	✓	29.9
 Type 411D Galv perforated Type 413D Galv perforated	1000 500	**12656** **12657**	11.3 5.7	✓	✓	✓	✓	22.6
 Type 465D S/S perforated Type 466D S/S perforated	1000 500	**12654** **12655**	11.3 5.7	✓	✓	✓	✓	29.6
 Type 405D Galv mesh Type 406D Galv mesh	1000 500	**132880** **132881**	7.8 3.9	✓	×	×	✓	52.1
 Type 430D S/S mesh Type 431D S/S mesh	1000 500	**132882** **132883**	7.8 3.9	✓	×	×	✓	41.3
 Type 460D Iron slotted	500	**12670**	10.1	×	×	×	✓	35.6
 Type 476D Iron longitudinal	500	**142171**	7.0	✓	✓	✓	✓	25.8
 Type 480D Iron wave	500	**99578**	8.0	✓	✓	×	✓	26.6

K200/KS200 DrainLok™ grates		Length mm	Part No	Wgt lbs					
LOAD CLASS B - EN 1433 - 28,000lbs - 483psi									
	Type 647D S/S longitudinal Type 648D S/S longitudinal	1000 500	**142219** **142220**	17.7 9.0	✓	✓	✓	✓	51.3
LOAD CLASS C - EN 1433 - 56,000lbs - 967psi									
	Type 611D Galv perforated Type 613D Galv perforated	1000 500	**138080** **138081**	21.0 10.5	✓	✓	✓	✓	22.6
	Type 665D S/S perforated Type 666D S/S perforated	1000 500	**138082** **138083**	21.0 10.5	✓	✓	✓	✓	29.6
	Type 660D Iron slotted	500	**142177**	18.0	×	×	×	✓	21.4
	Type 676D Iron longitudinal	500	**142173**	18.0	✓	✓	✓	✓	25.8
	Type 680D Iron wave	500	**99579**	28.0	✓	✓	×	✓	26.6

K300/KS300 DrainLok™ grates		Length mm	Part No	Wgt lbs					
LOAD CLASS A - EN 1433 - 3,500lbs - 58psi									
	Type 847D S/S longitudinal Type 848D S/S longitudinal	1000 500	**142223** **142224**	28.6 14.5	✓	✓	✓	✓	51.3
LOAD CLASS B - EN 1433 - 28,000lbs - 483psi									
	Type 811D Galv perforated Type 813D Galv perforated	1000 500	**138090** **138091**	30.9 15.0	✓	✓	✓	✓	22.6
	Type 865D S/S perforated Type 866D S/S perforated	1000 500	**138092** **138093**	30.9 15.0	✓	✓	✓	✓	29.6
LOAD CLASS C - EN 1433 - 56,000lbs - 967psi									
	Type 805D Galv mesh	500	**13819**	29.5	×	×	×	✓	52.1
	Type 830D S/S mesh	500	**13849**	29.5	×	×	×	✓	41.3
	Type 860D Iron slotted	500	**13870**	38.0	×	×	×	✓	31.5
	Type 876D Iron longitudinal	500	**99588**	35.0	✓	✓	✓	✓	25.8
	Type 880D Iron wave	500	**99581**	48.0	✓	✓	×	✓	26.6

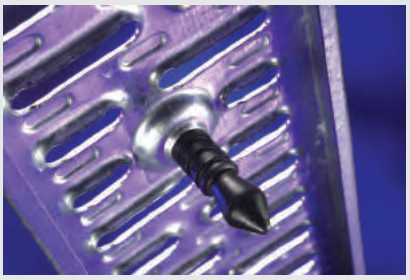
Key

- Compliant with Americans with Disabilities Act of 1990 Section 4.5.4
- ASME A112.6.3 - 2001 *Heel resistant* slots less than 0.31" (8mm)
- *Heel safe* slots equal or less than 0.25" (6.35mm)
- Bicycle Safe to Australian Standard AS 3996 - 2006
- Anti-slip grates - Pendulum test BPN value over 24



QuickLok™ - boltless locking system

Comprised of either a glass nylon stud or steel pin fitted to grate and a removable QuickLok™ bar in channel, QuickLok™ locks grate to channel by aligning stud over locking bar and applying pressure until they snap together. With no loose bolts or bars, QuickLok™ provides a highly secure boltless lock that is still easy to take apart for maintenance and cleaning. This saves time and money during installation.



Fit locking bar

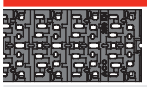
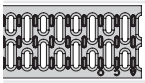
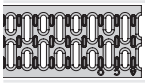
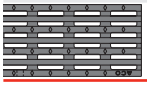
Locate locking bar in channel wall recesses by rotating clockwise. Use hammer to tap bar into place, so that serrated ends grip in recess.

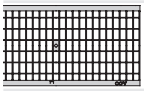
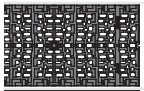
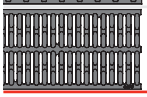
Fit grate

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

Grate removal

To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remove remaining grates by hand.
To remove bar, insert screwdriver into hole at end of bar and lever back serrated end, rotate bar free.

K100/KS100 QuickLok™ grates		Length mm	Part No	Wgt lbs					
LOAD CLASS C - EN 1433 - 56,000lbs - 1,162psi									
	Type 481Q Iron decorative	500	**97120**	9.0	✓	×	×	✓	38.8
	Type 479Q Iron mosaic	500	**97116**	10.0	✓	×	×	✓	24.6
LOAD CLASS E - EN 1433 - 135,000lbs - 2,788psi									
	Type 461Q Iron slotted	500	**96752**	10.2	×	×	×	✓	31.1
	Type 435Q Galv slotted Type 436Q Galv slotted	1000 500	**31550** **31551**	13.7 6.8	×	×	×	✓	27.4
	Type 490Q S/S slotted Type 493Q S/S slotted	1000 500	**31650** **31651**	13.7 6.8	×	×	×	✓	29.9
	Type 478Q Iron longitudinal	500	**03314**	12.8	✓	✓	×	✓	25.8

K200/KS200 QuickLok™ grates		Length mm	Part No	Wgt lbs					
LOAD CLASS C - EN 1433 - 56,000lbs - 967psi									
	Type 605Q Galv mesh Type 606Q Galv mesh	1000 500	**10352** **10353**	31.7 16.1	×	×	×	✓	52.1
	Type 630Q S/S mesh Type 631Q S/S mesh	1000 500	**16032** **16033**	31.7 16.1	×	×	×	✓	41.3
	Type 681Q Iron decorative	500	**93956**	27.0	✓	×	×	✓	38.8
	Type 679Q Iron mosaic	500	**93957**	34.0	✓	×	×	✓	24.6
LOAD CLASS E - EN 1433 - 135,000lbs - 2,321psi									
	Type 678Q Iron longitudinal	500	**138129**	26.0	✓	✓	✓	✓	25.8
	Type 661Q Iron slotted	500	**10351**	37.0	×	×	×	×	59.9

K300/KS300 QuickLok™ grates		Length mm	Part No	Wgt lbs					
LOAD CLASS C - EN 1433 - 56,000lbs - 967psi									
	Type 881Q Iron decorative	500	**93950**	47.0	✓	×	×	✓	38.8
	Type 879Q Iron mosaic	500	**93958**	47.3	✓	×	×	✓	24.6
LOAD CLASS E - EN 1433 - 135,000lbs - 2,321psi									
	Type 878Q Iron longitudinal	500	**138130**	52.9	✓	✓	✓	✓	25.8
	Type 861Q Iron slotted	500	**10431**	56.0	×	×	×	✓	50.8

Parts table

Description	K50 - 2" internal width			
	Part No		Invert	Weight
	Galv	S/S	Inches ②	Lbs
Constant depth channel - 39.37" (1m)[1]	04071	06750	2.90	18.0
Steel closing end cap	95395	95403	-	0.3

Notes:
1. This channel offers 2" round bottom knockout feature.
2. To calculate Overall channel depth add 0.6" to invert depth.

Typical system layout - K50

Removable grates

Constant depth channels

Closing cap

Bottom knockout *K50/KS50 - 2"*

K50/KS50 DrainLok™ grates		Length mm	Part No	Wgt lbs					
LOAD CLASS A - EN 1433 - 3,500lbs - 70psi									
	Type 210D Galv longitudinal	1000	**138100**	4.0	✓	✓	✓	✓	23.9
	Type 215D S/S perforated	1000	**138101**	4.0	✓	✓	✓	✓	23.9
	Type 220D Galv slotted	1000	**138102**	4.0	×	×	×	✓	24.4
	Type 250D S/S slotted	1000	**138103**	4.0	×	×	×	✓	24.4
	Type 200D Black plastic mosaic	500	**138104**	0.7	✓	✓	×	✓	N/A
	Type 201D Gray plastic mosaic	500	**138105**	0.7	✓	✓	×	✓	N/A
	Type 202D Tan plastic mosaic	500	**138106**	0.7	✓	✓	×	✓	N/A
LOAD CLASS B - EN 1433 - 28,000lbs - 483psi									
	Type 247D S/S longitudinal	1000	**142436**	14.9	✓	✓	✓	✓	31.6
LOAD CLASS C - EN 1433 - 56,000lbs - 1,162psi									
	Type 276D Iron longitudinal	500	**138107**	7.3	✓	✓	×	✓	21.1

Key

- Compliant with Americans with Disabilities Act of 1990 Section 4.5.4
- ASME A112.6.3 - 2001 *Heel resistant* slots less than 0.31" (8mm)
- *Heel safe* slots equal or less than 0.25" (6.35mm)
- Bicycle Safe to Australian Standard AS 3996 - 2006
- Anti-slip grates - Pendulum test BPN value over 24

Other ACO products

Exernal drainage

ACO Sport
Surface drainage and building accessories for track & field.

ACO Infrastructure
Surface drainage products engineered for highways, urban roads and bridges.

Aquaduct
Custom design and manufacture of fiberglass trench drain systems.

ACO Duct
Linear ducting system with removable solid covers.

ACO Environment
Oil water separators and spill containment systems.

ACO Wildlife
Tunnel and fence system to guide amphibians and other small creatures safely across roads.

ACO StormBrixx
A unique and patented plastic geocellular storm water management system.

ACO Self
Simple drainage and building components for use around the home, garden and office.

Building drainage

ACO Stainless
Stainless steel trench drains.

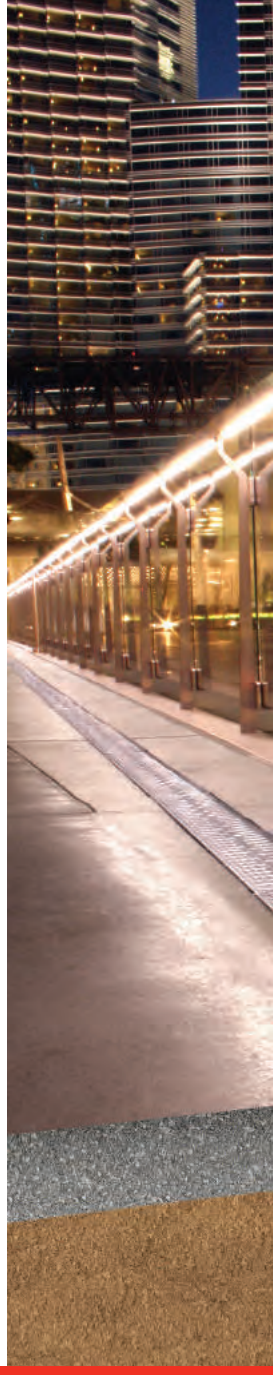
ACO Floor Drain
Stainless steel floor drains.

ACO BuildLine
Drainage products for thresholds, balconies, green roofs and building façades.

ACO Pipe
Stainless steel push-fit pipe system.

ACO ShowerDrain
Shower drainage.

QuARTz
Designer bathroom floor solutions.



ACO, Inc.

West Sales Office
825 W. Beechcraft St.
Casa Grande, AZ 85122
Tel: (520) 421-9988
Toll Free: (888) 490-9552
Fax: (520) 421-9899

Northeast Sales Office
9470 Pinecone Drive
Mentor, OH 44060
Tel: (440) 639-7230
Toll Free: (800) 543-4764
Fax: (440) 639-7235

Southeast Sales Office
4211 Pleasant Road
Fort Mill, SC 29708
Toll Free: (800) 543-4764
Fax: (803) 802-1063

Electronic Contact:
info@acousa.com
www.acodrain.us

Re-order Part # DL054 v1.0