

Commercial Trench  
Drains



**ACO DRAIN**

*KlassikDrain Leaflet*

**Introduction to the general purpose KlassikDrain Line**

**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 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 – dependent on use.

### 1. Standard Products

*KlassikDrain*  
*PowerDrain*

### 2. Problem Solvers

*FlowDrain*  
*SlabDrain*  
*Brickslot*  
*MembraneDrain*  
*MiniKlassik*  
*ChemDrain*



## KlassikDrain

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 4" (K100), 8" (K200) and 12" (K300) internal width systems and features the patented QuickLok boltless locking system.

K100/K200/K300 are the most commonly used product types. The polymer concrete body has an integrally cast-in galvanized steel edge rail.

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

For applications requiring increased corrosion resistance, all polymer concrete parts can be produced using a Vinylester resin, providing a significantly higher chemical resistance. Refer to the full 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



## Product overview - K100/K200/K300



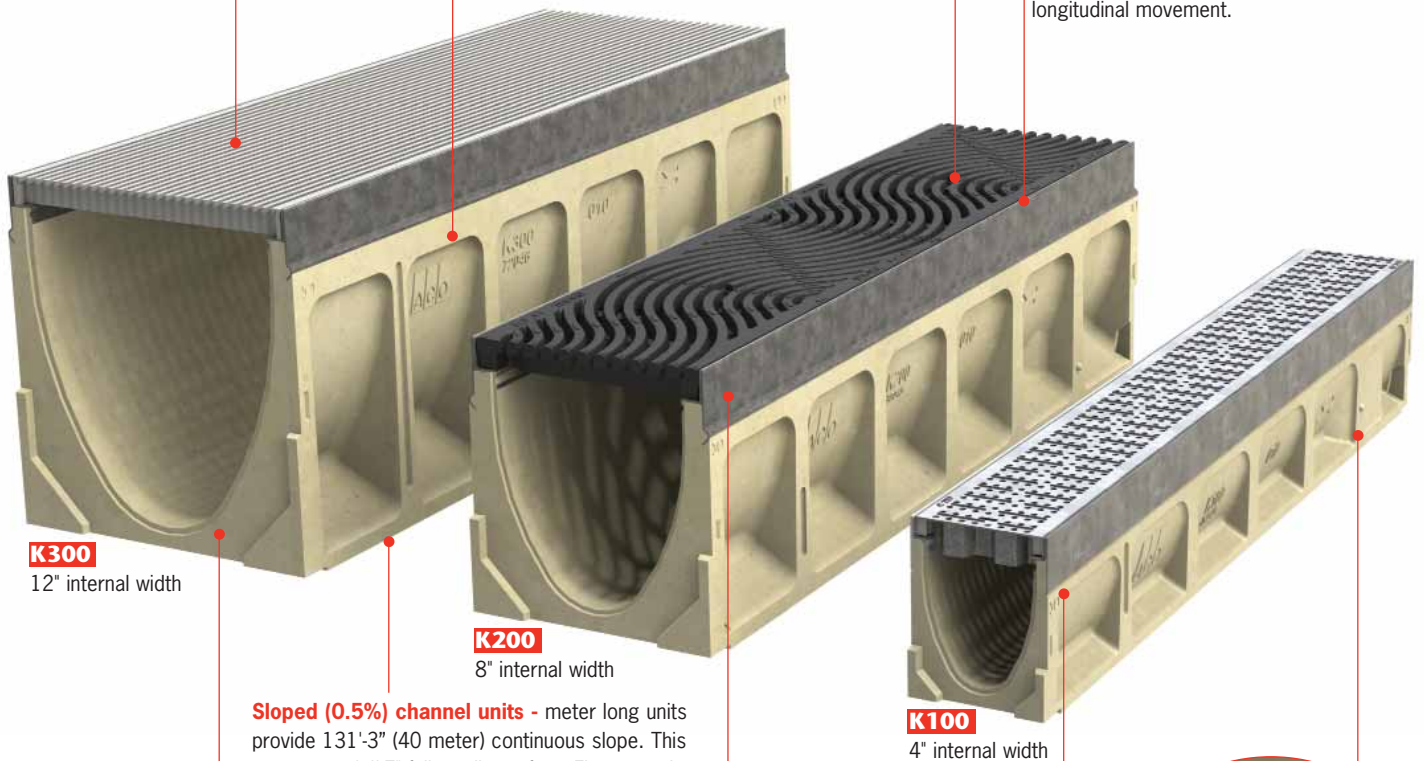
**Wide choice of grates** - in various materials and styles (including ADA compliant) for applications from Load Class A to Load Class E (60 ton) EN 1433.



**QuickLok** - patented, boltless locking system provides quick fitting and removal of grates. Helps reduce installation, maintenance time and cost. Provides two lockings per meter (39.37").

**Polymer concrete** - a durable yet lightweight material made from polyester resin binder reinforced by mineral aggregates and fillers

**'Anti-shunt' lugs** - recesses in grate fit around lugs on the edge rail to prevent longitudinal movement.



**K300**  
12" internal width

**K200**  
8" internal width

**K100**  
4" internal width

**Sloped (0.5%) channel units** - meter long units provide 131'-3" (40 meter) continuous slope. This equates to 1/17" fall per linear foot. Five neutral channels extend run lengths. Four half-meter units and accessories also available.



**Interconnecting end profiles** allow easy and effective joining of channels. **SF Sealant Groove** - a 3/16" by 5/16" groove is cast into both ends of every channel. The combined groove this creates allows for a positive bead of appropriate flexible sealant to be inserted at joints.

**Channel identification & system numbering** - in addition to channel numbering on sidewalls and base of channel, each end of the channel indicates the number of the channel that will connect to it.

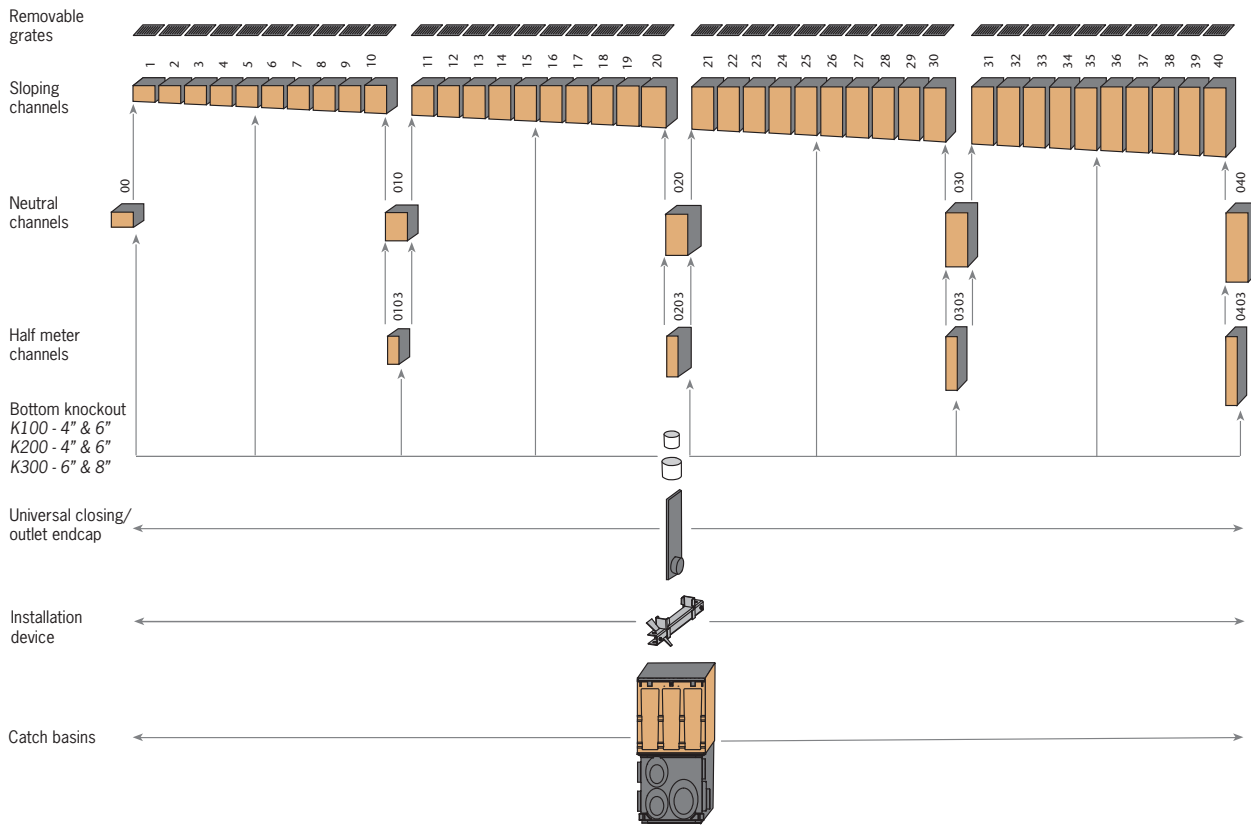


**Knock-outs** are included on every fifth channel unit to allow vertical evacuation of the system along the run.

**Integrally cast-in galvanized steel edge rail** provides additional strength and protects channel body from damage. (Stainless steel edge rail also available).



## Typical system layout - K100/K200/K300



### QuickLok - boltless locking system

Comprised of a glass nylon stud fitted into the grate and a removable Quicklok bar in the channel, the QuickLok system locks the grate to the channel by aligning the stub over the 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.



**1** FIT LOCKING BAR

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



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



**3** FIT GRATE

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



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



**5** 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.



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

**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	Inches <sup>2</sup>	Lbs	Galv	S/S	Inches <sup>2</sup>	Lbs	Galv	S/S	Inches <sup>2</sup>	Lbs
<b>00 Neutral channel - 39.37" (1m)<sup>1</sup></b>	<b>74041</b>	<b>74441</b>	<b>3.94</b>	<b>28.1</b>	<b>75041</b>	<b>75441</b>	<b>7.87</b>	<b>83.6</b>	<b>76041</b>	<b>76441</b>	<b>11.81</b>	<b>132.6</b>
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) <sup>1</sup>	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) <sup>1</sup>	74010	74410	5.91	35.3	75010	75410	9.84	93.5	76010	76410	13.78	143.4
<b>010 Neutral channel - 39.37" (1m)<sup>1</sup></b>	<b>74043</b>	<b>74443</b>	<b>5.91</b>	<b>35.3</b>	<b>75043</b>	<b>75443</b>	<b>9.84</b>	<b>93.5</b>	<b>76043</b>	<b>76443</b>	<b>13.78</b>	<b>143.4</b>
<b>0103 Neutral channel - 19.69" (0.5m)<sup>1</sup></b>	<b>74044</b>	<b>74444</b>	<b>5.91</b>	<b>17.0</b>	<b>75044</b>	<b>75444</b>	<b>9.84</b>	<b>56.0</b>	<b>76044</b>	<b>76444</b>	<b>13.78</b>	<b>75.3</b>
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) <sup>1</sup>	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) <sup>1</sup>	74020	74420	7.87	43.4	75020	75420	11.81	104.5	76020	76420	15.75	155.4
<b>020 Neutral channel - 39.37" (1m)<sup>1</sup></b>	<b>74045</b>	<b>74445</b>	<b>7.87</b>	<b>43.4</b>	<b>75045</b>	<b>75445</b>	<b>11.81</b>	<b>104.5</b>	<b>76045</b>	<b>76445</b>	<b>15.75</b>	<b>155.4</b>
<b>0203 Neutral channel - 19.69" (0.5m)<sup>1</sup></b>	<b>74046</b>	<b>74446</b>	<b>7.87</b>	<b>20.5</b>	<b>75046</b>	<b>75446</b>	<b>11.81</b>	<b>64.0</b>	<b>76046</b>	<b>76446</b>	<b>15.75</b>	<b>82.3</b>
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) <sup>1</sup>	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) <sup>1</sup>	74030	74430	9.84	51.4	75030	75430	13.78	115.5	76030	76430	17.72	167.5
<b>030 Neutral channel - 39.37" (1m)<sup>1</sup></b>	<b>74047</b>	<b>74447</b>	<b>9.84</b>	<b>51.4</b>	<b>75047</b>	<b>75447</b>	<b>13.78</b>	<b>115.5</b>	<b>76047</b>	<b>76447</b>	<b>17.72</b>	<b>167.5</b>
<b>0303 Neutral channel - 19.69" (0.5m)<sup>1</sup></b>	<b>74048</b>	<b>74448</b>	<b>9.84</b>	<b>24.0</b>	<b>75048</b>	<b>75448</b>	<b>13.78</b>	<b>68.0</b>	<b>76048</b>	<b>76448</b>	<b>17.72</b>	<b>89.5</b>
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) <sup>1</sup>	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) <sup>1</sup>	74040	74440	11.81	59.5	75040	75440	15.75	126.5	76040	76440	19.69	179.5
<b>040 Neutral channel - 39.37" (1m)<sup>1</sup></b>	<b>74049</b>	<b>74449</b>	<b>11.81</b>	<b>59.5</b>	<b>75049</b>	<b>75449</b>	<b>15.75</b>	<b>126.5</b>	<b>76049</b>	<b>76449</b>	<b>19.69</b>	<b>179.5</b>
<b>0403 Neutral channel - 19.69" (0.5m)<sup>1</sup></b>	<b>74050</b>	<b>74450</b>	<b>11.81</b>	<b>27.5</b>	<b>75050</b>	<b>75450</b>	<b>15.75</b>	<b>77.0</b>	<b>76050</b>	<b>76450</b>	<b>19.69</b>	<b>97.7</b>
Type 900 In-line catch basin - 19.69" (0.5m) <sup>3</sup>	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) <sup>3</sup>	94617	94618	-	55.8	94620	94621	-	91.0	-	-	-	-
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 910 & 610 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
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 neutral 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 steel (S) edge rail, plastic base & removable QuickLok bar). Select appropriate QuickLok grate to suit.

# QuickLok grates

## K100 grates

### LOAD CLASS A - EN 1433 - 3,500lbs - 70psi

Image	Type	Length mm	Part No	Wgt lbs	Wheelchair	Stroller	Bicycle
	Type 494Q Black plastic longitudinal	500	97393	1.8	✓	✗	✓
	Type 495Q Grey plastic longitudinal	500	97395	1.8	✓	✗	✓
	Type 420Q Galv slotted	1000 500	31530 31531	5.9 3.0	✗	✗	✓
	Type 450Q Stainless slotted	1000 500	31630 31631	5.9 3.0	✗	✗	✓
	Type 451Q Stainless perforated	1000 500	98883 98892	6.3 3.2	✓	✓	✓
	Type 410Q Galv perforated	1000 500	98866 98879	6.3 3.2	✓	✓	✓

### LOAD CLASS B - EN 1433 - 28,000lbs - 581psi

	Type 447Q Stainless longitudinal	1000 500	98971 98991	8.0 4.0	✓	✓	✓
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### LOAD CLASS C - EN 1433 - 56,000lbs - 1,162psi

	Type 492Q Composite slotted	500	04780	3.5	✗	✓	✓
	Type 425Q Galv slotted	1000 500	31540 31541	8.8 4.4	✗	✗	✓
	Type 455Q Stainless slotted	1000 500	31640 31641	8.8 4.4	✗	✗	✓
	Type 411Q Galv perforated	1000 500	98905 98918	11.3 5.7	✓	✓	✓
	Type 465Q Stainless perforated	1000 500	98927 98934	11.3 5.7	✓	✓	✓
	Type 405Q Galv mesh	1000 500	98707 98714	7.8 3.9	✓	✗	✓
	Type 430Q Stainless mesh	1000 500	98683 98695	8.0 4.0	✗	✗	✓
	Type 480Q Iron wave	500	97118	10.0	✓	✓	✓
	Type 481Q Iron decorative	500	97120	9.0	✓	✗	✓
	Type 479Q Iron mosaic	500	97116	10.0	✓	✗	✓

### LOAD CLASS E - EN 1433 - 135,000lbs - 2,788psi

	Type 461Q Iron slotted	500	96752	10.2	✗	✗	✓
	Type 435Q Galv slotted	1000 500	31550 31551	13.7 6.8	✗	✗	✓
	Type 490Q Stainless slotted	1000 500	31650 31651	13.7 6.8	✗	✗	✓
	Type 478Q Iron longitudinal	500	03314	12.8	✓	✓	✓

## K200 grates

### LOAD CLASS B - EN 1433 - 28,000lbs - 484psi

	Type 647Q Stainless longitudinal	1000 500	98973 98993	17.7 9.0	✓	✓	✓
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### LOAD CLASS C - EN 1433 - 56,000lbs - 968psi

	Type 611Q Galv perforated	1000 500	98962 98961	21.0 10.5	✓	✓	✓
	Type 665Q S/S perforated	1000 500	98960 98959	21.0 10.5	✓	✓	✓
	Type 605Q Galv mesh	1000 500	10352 10353	31.7 16.1	✗	✗	✓
	Type 630Q Stainless mesh	1000 500	16032 16033	31.7 16.1	✗	✗	✓
	Type 680Q Iron wave	500	93955	28.0	✓	✓	✓
	Type 681Q Iron decorative	500	93956	27.0	✓	✓	✓
	Type 679Q Iron mosaic	500	93957	34.0	✓	✓	✓
	Type 678Q Iron longitudinal	500	95038	22.0	✓	✓	✓

### LOAD CLASS E - EN 1433 - 135,000lbs - 2,323psi

	Type 661Q Iron slotted	500	10351	30.8	✗	✗	✓
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## K300 grates

### LOAD CLASS A - EN 1433 - 3,500lbs - 58psi

Image	Type	Length mm	Part No	Wgt lbs	Wheelchair	Stroller	Bicycle
	Type 847Q Stainless longitudinal	1000 500	98975 98995	28.6 14.5	✓	✓	✓

### LOAD CLASS C - EN 1433 - 56,000lbs - 968psi

	Type 811Q Galv perforated	1000 500	98967 98966	30.9 15.0	✓	✓	✓
	Type 865Q Stainless perforated	1000 500	98968 98969	30.9 15.0	✓	✓	✓
	Type 805Q Galv mesh	500	10433	29.5	✗	✗	✓
	Type 830Q Stainless mesh	500	16006	29.5	✗	✗	✓
	Type 880Q Iron wave	500	93951	48.0	✓	✓	✓
	Type 881Q Iron decorative	500	93950	47.0	✓	✓	✓
	Type 879Q Iron mosaic	500	93958	47.3	✓	✓	✓
	Type 878Q Iron longitudinal	500	93901	35.0	✓	✓	✓

### LOAD CLASS E - EN 1433 - 135,000lbs - 2,323psi

	Type 861Q Iron slotted	500	10431	48.0	✗	✗	✓
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## Catch basin options

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

### In-line catch basins

Type 900 in-line catch basins are the same width as the trench run.



The polymer concrete in-line top allows use of 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.



The polymer concrete top sized to suit channel system depths. Steel rail and choice of grates to complement trench run. Iron rail also available. Type 600 catch basin not available for K300.

#### K1-901G/S

#### K2-902G/S

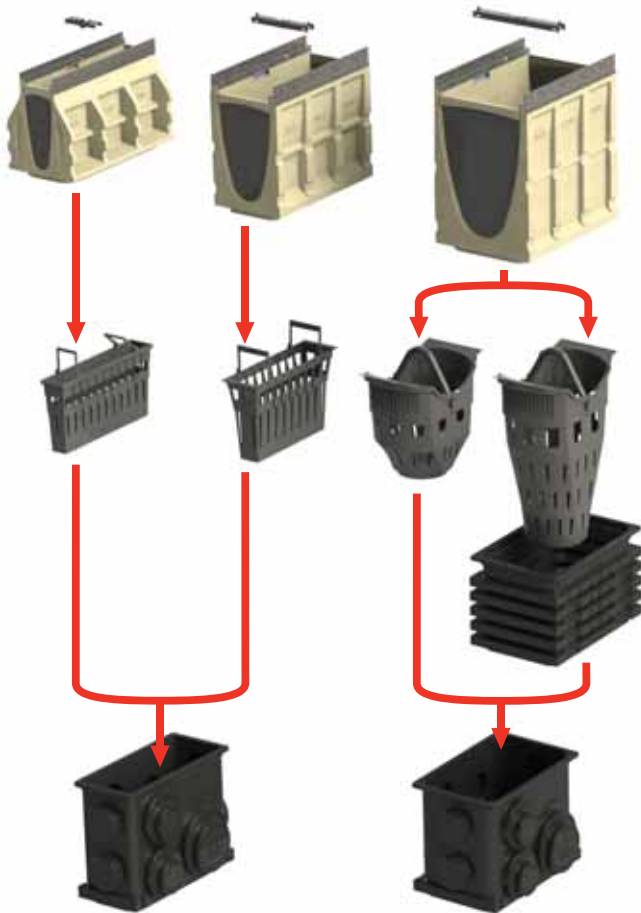
#### K3-903G/S

#### K1-621G/S

- use with K100

#### K2-621G/S

- use with K200 (K2-631G/S uses riser and deep bucket)

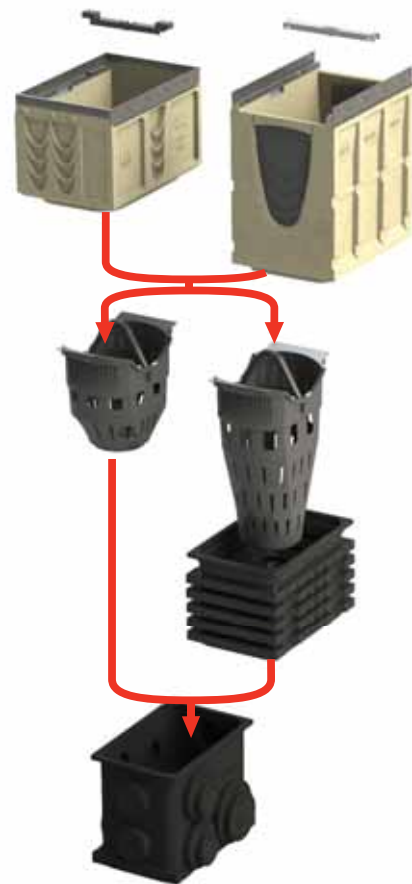


Polymer concrete catch basin top with steel edge rail and removable QuickLok bar.

Optional plastic trash bucket.

Optional plastic riser to increase depth and hydraulic output.

Plastic catch basin base with choice of outlet sizes and locations.



Both K1-901 & K2-902 in-line catch basins use same base - provides suitable width/access for pipe maintenance.

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



## Other ACO DRAIN systems

- **PowerDrain**  
An extra heavy duty trench drain system available in 4", 8" or 12" internal widths.
- **FlowDrain**  
An 8" internal width system manufactured from corrosion resistant fiberglass, ideal for long straight runs in concrete slabs.
- **Brickslot**  
A discreet drainage solution for brick or stone pavers.
- **SlabDrain**  
For shallow slab areas where vertical depth is limited. SlabDrain is available with 3 different edge details and in 4", 8" or 12" widths.
- **MiniKlassik**  
A 2" internal width neutral system for high profile, aesthetic areas.
- **MembraneDrain**  
A two part system for use in non-habitable suspended slabs where a membrane is used.
- **ChemDrain**  
All polymer concrete parts are available in corrosion resistant Vinylester polymer concrete for more aggressive environments.

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Re-order Part # DL054