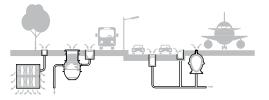




PowerDrain Line



\$100K - 4" internal width, iron edge channel

S200K - 8" internal width, iron edge channel

\$300K - 12" internal width, iron edge channel



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





### **PowerDrain**

Heavy duty sloped trench drain system ideal for applications requiring the most rugged product. PowerDrain features an integrally cast-in ductile iron edge rail, and choice of slotted or longitudinal ductile iron grates up to EN 1433 Load Class F (90 ton loading).

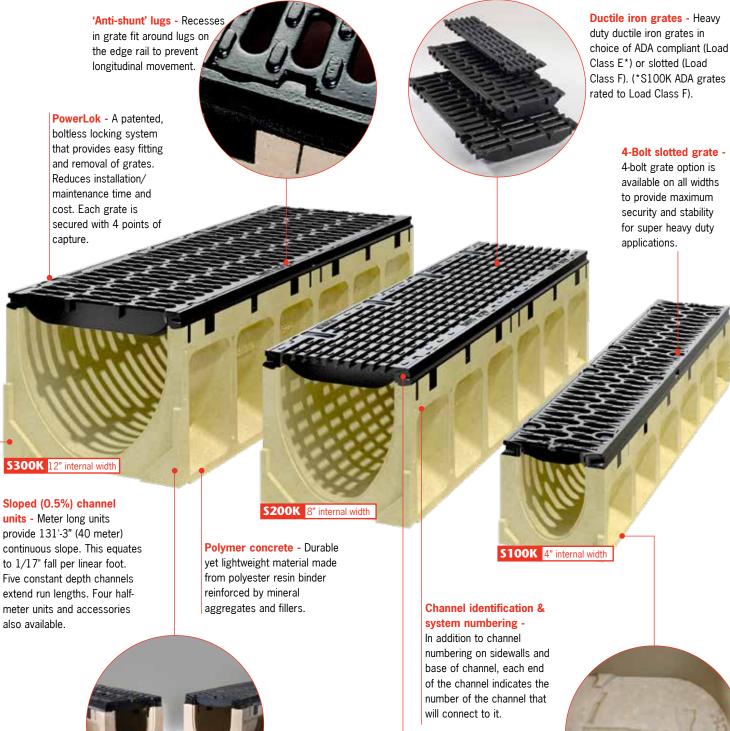
PowerDrain is available in 4'' (\$100K), 8'' (\$200K) and 12'' (\$300K) internal width systems.

Grates are locked in place with either the patented PowerLok boltless locking system or a 4-bolt option is also available.

## **Typical applications**

- Airports
- Highways
- Heavy duty industrial areas
- Gas stations
- Docks & ports
- Military bases
- Truck stops

## Product overview - \$100K/\$200K/\$300K



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

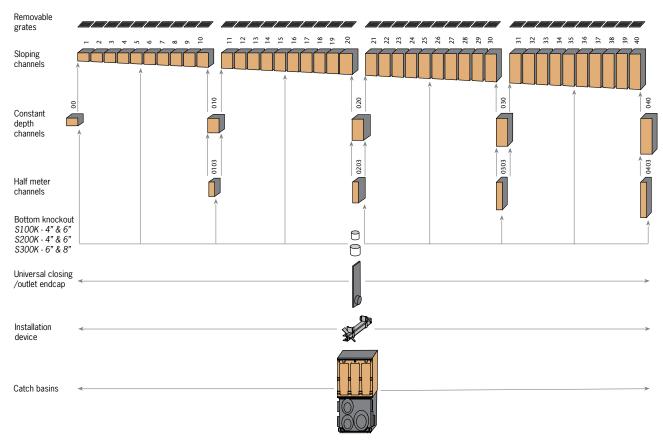
## Ductile iron edge rail -

Integrally cast-in rail provides maximum strength and protection for channel body.



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

# Typical system layout - \$100K/\$200K/\$300K



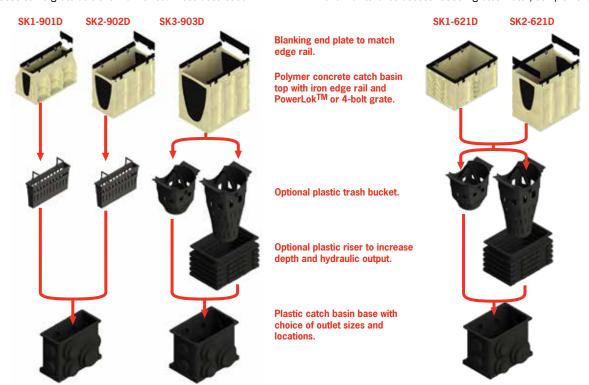
# **Catch basin options**

#### **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. S300K grates match/complement trench run.





Parts table    Part   Invert   No   Inches	Invert Inches ② 11.81 12.01 12.20 12.40 12.60 12.80 12.99 13.19 13.39 13.58 13.78	Weight Lbs 140.0 140.0 141.3 142.8 144.1 145.4 146.9 148.2 149.5 150.9 152.3
00 Constant depth channel - 39.37" (1m)         67041         3.94         48.1         68041         7.87         85.2         69041           1 Sloped channel - 39.37" (1m)         67001         4.13         48.1         68001         8.07         85.2         69001           2 Sloped channel - 39.37" (1m)         67002         4.33         49.1         68002         8.27         86.3         69002           3 Sloped channel - 39.37" (1m)         67003         4.53         50.1         68003         8.46         87.4         69003           4 Sloped channel - 39.37" (1m)         67004         4.72         51.1         68004         8.66         88.5         69004           5 Sloped channel - 39.37" (1m)         67005         4.92         52.1         68005         8.86         89.6         69005           6 Sloped channel - 39.37" (1m)         67006         5.12         53.1         68006         9.06         90.7         69006           7 Sloped channel - 39.37" (1m)         67007         5.31         54.1         68007         9.25         91.8         69007           8 Sloped channel - 39.37" (1m)         67008         5.51         55.1         68008         9.45         92.9         69008	11.81 12.01 12.20 12.40 12.60 12.80 12.99 13.19 13.39 13.58 13.78	140.0 140.0 141.3 142.8 144.1 145.4 146.9 148.2 149.5 150.9
1 Sloped channel - 39.37" (1m) 67001 4.13 48.1 68001 8.07 85.2 69001 2 Sloped channel - 39.37" (1m) 67002 4.33 49.1 68002 8.27 86.3 69002 3 Sloped channel - 39.37" (1m) 67003 4.53 50.1 68003 8.46 87.4 69003 4.51 68004 8.66 88.5 69004 5 Sloped channel - 39.37" (1m) 67005 4.92 52.1 68005 8.86 89.6 69005 6 Sloped channel - 39.37" (1m) 67006 5.12 53.1 68006 9.06 90.7 69006 7 Sloped channel - 39.37" (1m) 67007 5.31 54.1 68007 9.25 91.8 69007 8 Sloped channel - 39.37" (1m) 67008 5.51 55.1 68008 9.45 92.9 69008	12.01 12.20 12.40 12.60 12.80 12.99 13.19 13.39 13.58 13.78	140.0 141.3 142.8 144.1 145.4 146.9 148.2 149.5 150.9
2 Sloped channel - 39.37" (1m) 67002 4.33 49.1 68002 8.27 86.3 69002 3 Sloped channel - 39.37" (1m) 67003 4.53 50.1 68003 8.46 87.4 69003 4.51 68004 8.66 88.5 69004 64.72 51.1 68005 8.86 89.6 69005 6 Sloped channel - 39.37" (1m) 67006 5.12 53.1 68006 9.06 90.7 69006 7 Sloped channel - 39.37" (1m) 67007 5.31 54.1 68007 9.25 91.8 69007 8 Sloped channel - 39.37" (1m) 67008 5.51 55.1 68008 9.45 92.9 69008	12.20 12.40 12.60 12.80 12.99 13.19 13.39 13.58 13.78	141.3 142.8 144.1 145.4 146.9 148.2 149.5 150.9
3 Sloped channel - 39.37" (1m) 67003 4.53 50.1 68003 8.46 87.4 69003 4.51 68004 8.66 88.5 69004 64.72 51.1 68005 8.86 89.6 69005 6 Sloped channel - 39.37" (1m) 67006 5.12 53.1 68006 9.06 90.7 69006 7 Sloped channel - 39.37" (1m) 67007 5.31 54.1 68007 9.25 91.8 69007 8 Sloped channel - 39.37" (1m) 67008 5.51 55.1 68008 9.45 92.9 69008	12.40 12.60 12.80 12.99 13.19 13.39 13.58 13.78	142.8 144.1 145.4 146.9 148.2 149.5 150.9
4 Sloped channel - 39.37" (1m) 67004 4.72 51.1 68004 8.66 88.5 69004 5 1.0 5	12.60 12.80 12.99 13.19 13.39 13.58 13.78	144.1 145.4 146.9 148.2 149.5 150.9
5 Sloped channel - 39.37" (1m)       67005       4.92       52.1       68005       8.86       89.6       69005         6 Sloped channel - 39.37" (1m)       67006       5.12       53.1       68006       9.06       90.7       69006         7 Sloped channel - 39.37" (1m)       67007       5.31       54.1       68007       9.25       91.8       69007         8 Sloped channel - 39.37" (1m)       67008       5.51       55.1       68008       9.45       92.9       69008	12.80 12.99 13.19 13.39 13.58 13.78	145.4 146.9 148.2 149.5 150.9
6 Sloped channel - 39.37" (1m)       67006       5.12       53.1       68006       9.06       90.7       69006         7 Sloped channel - 39.37" (1m)       67007       5.31       54.1       68007       9.25       91.8       69007         8 Sloped channel - 39.37" (1m)       67008       5.51       55.1       68008       9.45       92.9       69008	12.99 13.19 13.39 13.58 13.78	146.9 148.2 149.5 150.9
7 Sloped channel - 39.37" (1m) 67007 5.31 54.1 68007 9.25 91.8 69007 8 Sloped channel - 39.37" (1m) 67008 5.51 55.1 68008 9.45 92.9 69008	13.19 13.39 13.58 13.78	148.2 149.5 150.9
8 Sloped channel - 39.37" (1m) <b>67008</b> 5.51 55.1 <b>68008</b> 9.45 92.9 <b>69008</b>	13.39 13.58 13.78 <b>13.78</b>	149.5 150.9
	13.58 13.78 <b>13.78</b>	150.9
9 Sloped channel - 39.37" (1m) <b>67009</b> 5.71 56.1 <b>68009</b> 9.65 94.0 <b>69009</b>	13.78	1523
10 Sloped channel - 39.37" (1m) $\odot$ 67010 5.91 57.1 68010 9.84 95.1 69010		152.5
010 Constant depth channel - 39.37" (1m) 67043 5.91 57.1 68043 9.84 95.2 69042	40 -0	152.3
0103 Constant depth channel - 19.69" (0.5m)	13.78	84.2
11 Sloped channel - 39.37" (1m) <b>67011</b> 6.10 58.1 <b>68011</b> 10.04 96.2 <b>69011</b>	13.98	153.6
12 Sloped channel - 39.37" (1m) <b>67012</b> 6.30 59.1 <b>68012</b> 10.24 97.3 <b>69012</b>	14.17	155.0
13 Sloped channel - 39.37" (1m) 67013 6.50 60.1 68013 10.43 98.4 69013	14.37	156.4
14 Sloped channel - 39.37" (1m) 67014 6.69 61.1 68014 10.63 99.6 69014	14.57	157.7
15 Sloped channel - 39.37" (1m) 67015 6.89 62.1 68015 10.83 100.7 69015 6.89 62.1 68016 11.03 101.8 69016	14.76	149.1
16 Sloped channel - 39.37" (1m)	14.96 15.16	160.5 161.9
17 Sloped channel - 39.37" (1m) 67017 7.28 64.1 68017 11.22 102.9 69017 18 Sloped channel - 39.37" (1m) 67018 7.48 65.1 68018 11.42 104.0 69018	15.16	161.9
19 Sloped channel - 39.37" (1m) <b>67019</b> 7.68 66.1 <b>68019</b> 11.61 105.1 <b>69019</b>	15.55	164.6
20 Sloped channel - 39.37" (1m) © 67020 7.87 67.1 68020 11.81 106.2 69020	15.75	166.0
020 Constant depth channel - $39.37"$ (1m) $\bigcirc$ 67045 7.87 67.1 68045 11.81 106.2 69044	15.75	166.0
0203 Constant depth channel - 19.69" (0.5m) 67046 7.87 33.9 68046 11.81 68.8 69047	15.75	92.0
21 Sloped channel - 39.37" (1m) <b>67021</b> 8.07 <b>68.1 68021</b> 12.01 107.3 <b>69021</b>	15.94	167.3
22 Sloped channel - 39.37" (1m) <b>67022</b> 8.27 69.1 <b>68022</b> 12.20 108.4 <b>69022</b>	16.14	168.7
23 Sloped channel - 39.37" (1m) <b>67023</b> 8.46 70.0 <b>68023</b> 12.40 109.5 <b>69023</b>	16.34	170.1
24 Sloped channel - 39.37" (1m) <b>67024</b> 8.66 71.0 <b>68024</b> 12.60 110.6 <b>69024</b>	16.54	171.4
25 Sloped channel - 39.37" (1m) (1m) (69025 8.86 72.0 68025 12.80 111.7 69025	16.73	172.7
26 Sloped channel - 39.37" (1m) <b>67026</b> 9.06 73.0 <b>68026</b> 12.99 112.3 <b>69026</b>	16.93	174.2
27 Sloped channel - 39.37" (1m) <b>67027</b> 9.25 74.0 <b>68027</b> 13.19 113.9 <b>69027</b> 28 Sloped channel - 39.37" (1m) <b>67028</b> 9.45 75.0 <b>68028</b> 13.39 115.8 <b>69028</b>	17.13 17.32	175.5 176.8
	17.52	176.8
29 Sloped channel - 39.37" (1m) <b>67029</b> 9.65 76.0 <b>68029</b> 13.58 116.1 <b>69029</b> 30 Sloped channel - 39.37" (1m) <b>67030</b> 9.84 77.0 <b>68030</b> 13.78 117.2 <b>69030</b>	17.52	179.6
030 Constant depth channel - 39.37" $(1m)^{\oplus}$ 67047 9.84 77.0 68047 13.78 117.2 69046	17.72	179.6
0303 Constant depth channel - 19.69" (0.5m) © 67048 9.84 38.4 68048 13.78 73.3 69049	17.72	100.0
31 Sloped channel - 39.37" (1m) <b>67031</b> 10.04 78.0 <b>68031</b> 13.98 118.4 <b>69031</b>	17.91	180.9
32 Sloped channel - 39.37" (1m) <b>67032</b> 10.24 79.0 <b>68032</b> 14.17 119.5 <b>69032</b>	18.11	182.4
33 Sloped channel - 39.37" (1m) <b>67033</b> 10.43 80.0 <b>68033</b> 14.37 120.6 <b>69033</b>	18.31	183.7
34 Sloped channel - 39.37" (1m) <b>67034</b> 10.63 81.0 <b>68034</b> 14.57 121.7 <b>69034</b>	18.50	185.0
35 Sloped channel - 39.37" (1m) (1m) (1m) (10.83 82.0 68035 14.76 122.8 69035	18.70	186.5
36 Sloped channel - 39.37" (1m) <b>67036</b> 11.02 83.0 <b>68036</b> 14.96 123.9 <b>69036</b>	18.90	187.8
37 Sloped channel - 39.37" (1m) 67037 11.22 84.0 68037 15.16 125.0 69037	19.09	189.1
38 Sloped channel - 39.37" (1m) <b>67038</b> 11.42 85.0 <b>68038</b> 15.35 126.1 <b>69038</b>	19.29	190.5
39 Sloped channel - 39.37" (1m) <b>67039</b> 11.61 86.0 <b>68039</b> 15.55 127.2 <b>69039</b> 40 Sloped channel - 39.37" (1m) <b>67040</b> 11.81 87.0 <b>68040</b> 15.75 128.3 <b>69040</b>	19.49	191.9
	19.69 <b>19.69</b>	193.2 <b>193.2</b>
040 Constant depth channel - $39.37"$ (1m) $\bigcirc$ 67049 11.81 87.0 68049 15.75 128.3 69048 0403 Constant depth channel - $19.69"$ (0.5m) $\bigcirc$ 67050 11.81 43.0 68050 15.75 82.1 69050	19.69	109.0
Type 900 Inline catch basin - $19.69$ " (0.5m) $\oplus$ 67051 - 86.0 68053 - 81.8 69053	15.05	99.4
SK3-904D In-line catch basin - 19.69" (0.5m) <sup>©</sup> <b>69054</b>		104.4
621D catch basin - 19.69" (0.5m) (0.5	-	-
631D catch basin - 19.69" (0.5m) 6 67054 - 85.7 68056 - 126.0 -	-	-
Type 600 Optional riser 99902 - 10.0 99902 - 10.0 99902	-	10.0
Foul air trap - fits both 910 & 610 basins 90854 - 1.2 90854 - 1.2 90854	-	1.2
SK1-304-6 6" Inlet Cap 96861 9.84 6.2	-	-
SK1-308-6 6" Outlet Cap 96862 9.84 6.0	-	-
SK1-404-6 6" Inlet Cap 96863 11.81 7.2 SK1-408-6 6" Outlet Cap 96864 11.81 7.0	-	-
SK1-408-6 6" Outlet Cap 96864 11.81 7.0 Universal end cap 96824 11.81 0.4 96823 15.75 1.4 96827	19.69	2.5
Debris strainer for 4" bottom knockout  90824 11.81 0.4 90823 15.75 1.4 90827  90827 - 0.2 93488 - 0.2 -	19.09	2.5
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; \$100K 4" round/6" oval, \$200K 4" & 6" round, \$300K 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).
  3. To calculate overall channel depth add 1.0" to invert depth.
  4. Catch basin assembly: Polymer concrete top with iron edge rail, blanking end kit, trash bucket and plastic base. Select appropriate grate to suit.
  5. Catch basin assembly: Polymer concrete top with iron edge rail, blanking end kit, deep trash bucket, riser and plastic base. Select appropriate grate to suit.

# **Choosing PowerDrain grates**

There are three available grate styles to fit the PowerDrain heavy duty channels.

The conventional slotted grate, with PowerLok™, gives an excellent all-around heavy duty solution with the ease of the PowerLok™ locking/unlocking mechanism. Ideal for use where regular removal of the grate for maintenance is required.

The ADA compliant, longitudinal slotted grate, with PowerLok<sup>™</sup>, gives the ideal solution to a heavy duty location where some pedestrian access may be required.

Although easy locking and grate removal is important for maintenance, some specific applications require a 4-bolt solution. The four threaded stainless steel inserts in the PowerDrain channel body allow a 4-bolt grate to be bolted into the channel (using 4 qty M10 bolts) for ultimate stiffness and security. Tamper resistant bolts can also be used.





# PowerLok™ - safety clip

For areas of extra security or safety concerns, an optional safety clip is available that provides a visual alert if the PowerLok™ devices are left open. The clip push fits next to the PowerLok™ device and sits level with the grate when the grate is locked. The clip cannot be fitted if the PowerLok™ is open. If all grates are engaged, a run of red dots is visible.





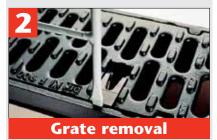
Grate accessories	ies Part No.	
		lbs
PowerLok safety clip (red)	10443	0.1
Replacement bolt for 4-bolt grate	95526	0.1
Tamper resistant bolt for 4-bolt grate	138127	0.1
Tamper resistant bolt drive	138128	0.1



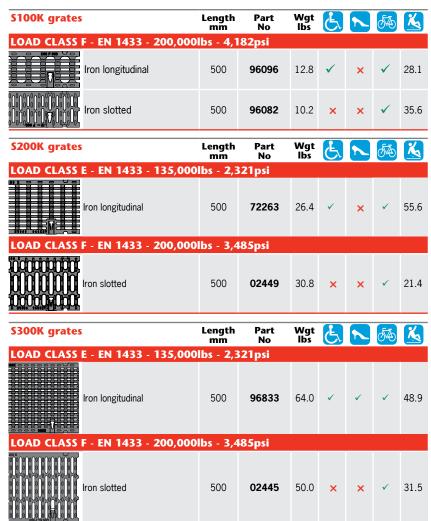
## PowerLok™ - boltless locking system



To close, place hook part of tool into 'V' and push towards rail.



To open PowerLok, insert tool between rail and PowerLok device. Rotate tool 90°; PowerLok device should push away from rail. To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.



## 4-Bolt secure locking system



Position grate onto channel, align holes in grate with matching holes in edge rail. Using wrench or socket set to tighten. If using a torque wrench, do not set to more than 15 ft. lbs.



To remove grates, use wrench or socket set. Carefully store bolts for refitting of grates.

S100K 4-bolt grates	Length mm	Part No	Wgt Ibs	E		Ø₽)	K	
LOAD CLASS F - EN 1433 - 200,000	lbs - 4,1	82psi						
4-Bolt Iron slotted*	500	99590	10.8	×	×	✓	35.6	
S200K 4-bolt grates	Length mm	Part No	Wgt lbs	E		Æ	K	
LOAD CLASS F - EN 1433 - 200,000	lbs - 3,4	85psi						
4-Bolt Iron slotted*	500	99591	26.4	×	×	<b>√</b>	21.4	
S300K 4-bolt grates	Length mm	Part No	Wgt lbs	E	N	Æ	K	
LOAD CLASS F - EN 1433 - 200,000lbs - 3,485psi								
4-Bolt Iron slotted*	500	99592	50.2	×	×	<b>√</b>	31.5	

<sup>\*</sup> Supplied with 4 qty M10 bolts.





ACO. creating the future of drainage

## ACO, Inc.

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