

PowerDrain features

PowerLok™ - A patented, boltless locking system that provides quick fitting and removal of grates. Helps reduce installation/ maintenance time and cost.



Ductile iron grates - Heavy duty ductile iron grates in choice of ADA compliant (Load Class E*) or slotted (Load Class F. (*S100K ADA grates rated to Load Class F).

Ductile iron edge rail - Integrally cast-in rail provides maximum strength and protection for channel body. Shock absorbing widgets, with M10 stainless steel threads, fitted in rail to assist grate fit and aid hanging installation.



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

Polymer concrete - Durable, yet lightweight material made from polyester resin binder reinforced by mineral aggregates and fillers. Provides up to four times the compressive strength of cement concrete.

See page 136 for material properties.

System numbering - Each end of channel indicates number of appropriate sloped channel that connects to it.



Channel identification - Channels feature numbering on sidewalls. Numbering in base of channel allows easy identification after concrete encasement.



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

Direction arrows -

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

4-Bolt slotted grate -

4-bolt stotted grate 4-bolt grate option is available on all widths to provide maximum security and stability for super heavy duty applications.

Profiled side walls Strengthening pillars

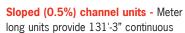
and frost keys provide channel body strength and mechanical keying to surrounding concrete.



ensures safer stacking of channels on pallets for shipping to minimize breakage.

Concrete anchor boss -

A drill-through hole in the ductile iron rail enables a concrete anchor (4 per meter) to be attached for extra embedment into concrete haunch.



slope - equates to 1/17" fall per linear foot. Constant depth units can be used to extend run lengths.

\$100K 4" internal width

exter

S200K 8" internal width

Knock-outs - Included on all

channel units to allow vertical

sizes for each system.

evacuation of the system along the run. **See product pages for**





S100K is a 4" wide system with choice of Class F (90 ton) slotted or ADA compliant ductile iron grates featuring PowerLok™ patented boltless locking system. A 4-bolt slotted grate is also available.

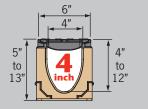




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PowerDrain S100K

Key Dimensions





131' continuous slope

Typical applications

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

Selection criteria

ABCDEF Light to heavy industrial duty loads



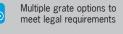
Product can be used towards LEED & EPA requirements



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

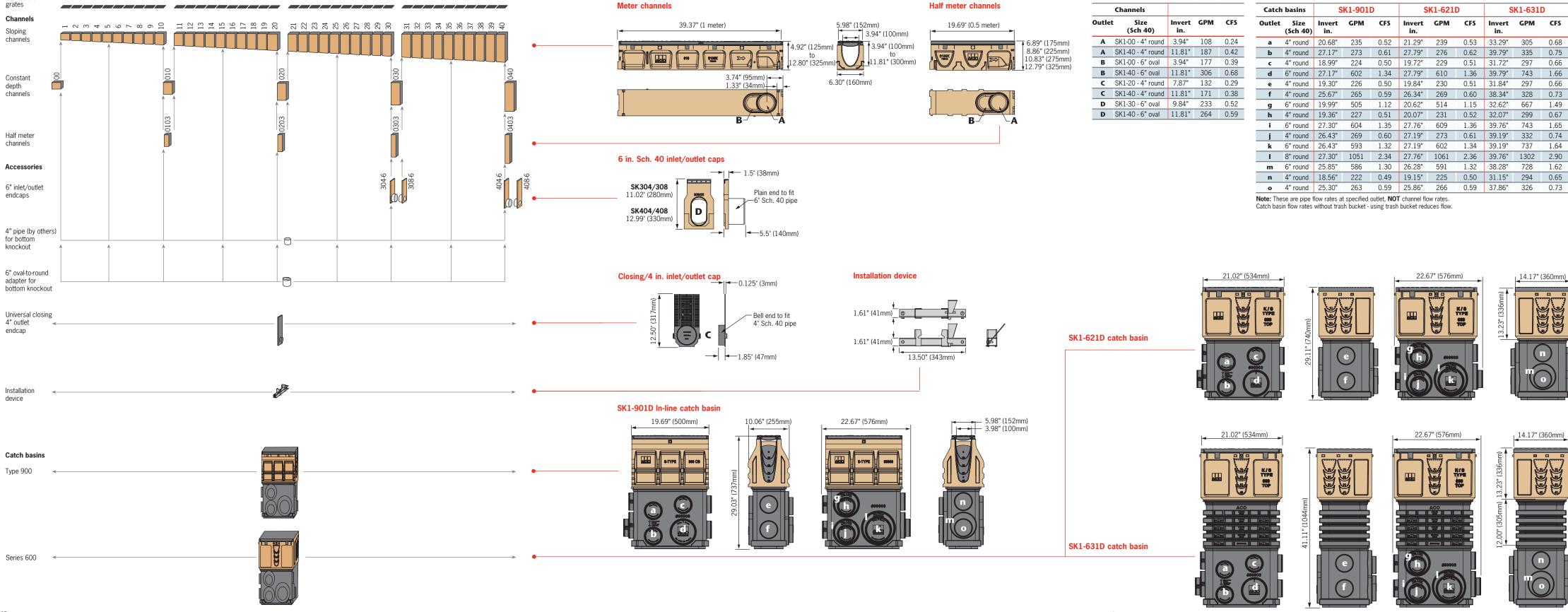


ACO DRAIN

PowerDrain \$100K

System layout

Removable



Outlet flow rates

\$100K Parts table

Meter channels - sloping & constant depth

0.5% sloped channels with ductile iron edge rail, in meter lengths and 40 depths to create a 40 meter (131'-2") continuously sloping run.

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

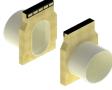
Bottom knockouts on all constant depths and 5, 10, 15, 20, 25, 30, 35, 40 channels.





Half meter channels

Constant depth channels with ductile iron edge rail, in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels.



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 coupler. **Note**: These end caps cannot be cut to height, and fit only at positions shown in layout diagram.



Fits all channels, manufactured from black ABS to complement edge il. Guides aid cutting to correct height. Wings clip cap onto end of annel. 4" bell end connection to Schedule 40 pipe. Seal using PVC-ABS cement.

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 901D In-line catch basin

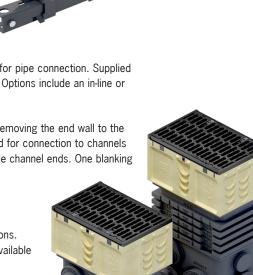
Two part in-line catch basin with 4", 6" and 8" drill-outs for pipe connection. Supplied with with ductile iron edge rail and plastic trash bucket. Options include an in-line or

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 in-line catch basin; bases have 4", 6" and 8" drill-outs for pipe connections. Supplied with with ductile iron edge rail and plastic trash bucket. Optional riser available for increased depth. Contact ACO for non-polyethylene riser/bases.

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.





Invert Depth

SK1-00 Constant depth channel - 39.37" (1m) 2 67041 3.94 3.94 100 100 4.92 4.92 125 125 1.96 48.1 SK1-1 Sloped channel - 39.37" (1m) **67001** 3.94 4.13 100 105 4.92 5.12 125 130 1.99 48.1 SK1-2 Sloped channel - 39.37" (1m) **67002** 4.13 4.33 105 110 5.12 5.31 130 135 2.04 49.1 SK1-3 Sloped channel - 39.37" (1m) **67003** 4.33 4.53 110 115 5.31 5.51 135 140 2.13 50.1 SK1-4 Sloped channel - 39.37" (1m) **67004** 4.53 4.72 115 120 5.51 5.71 140 145 2.23 51.1 SK1-5 Sloped channel - 39.37" (1m) ² **67005** 4.72 4.92 120 125 5.71 5.91 145 150 2.33 52.1 SK1-6 Sloped channel - 39.37" (1m) **67006** 4.92 5.12 125 130 5.91 6.10 150 155 2.43 53.1 SK1-7 Sloped channel - 39.37" (1m) 5.12 5.31 130 135 6.10 6.30 155 SK1-8 Sloped channel - 39.37" (1m) **67008** 5.31 5.51 135 140 6.30 6.50 160 165 2.65 55.1 SK1-9 Sloped channel - 39.37" (1m) **67009** 5.51 5.71 140 145 6.50 6.69 165 170 2.75 56.1 SK1-10 Sloped channel - 39.37" (1m) 2 **67010** 5.71 5.91 145 150 6.69 6.89 170 175 2.86 57.1 SK1-010 Constant depth channel - 39.37" (1m) ² 67043 5.91 5.91 150 150 6.89 6.89 175 175 2.85 57.1 SK1-0103 Constant depth channel - 19.69" (0.5m) 2 67044 5.91 5.91 150 150 6.89 6.89 175 175 1.43 29.4 SK1-11 Sloped channel - 39.37" (1m) **67011** 5.91 6.10 150 155 6.89 7.09 175 180 2.97 58.1 SK1-12 Sloped channel - 39.37" (1m) **67012** 6.10 6.30 155 160 7.09 7.28 180 185 3.08 59.1 SK1-13 Sloped channel - 39.37" (1m) **67013** 6.30 6.50 160 165 7.28 7.48 185 190 3.19 60.1 SK1-14 Sloped channel - 39.37" (1m) **67014** 6.50 6.69 165 170 7.48 7.68 190 **67015** 6.69 6.89 170 175 7.68 7.87 195 200 3.42 62.1 SK1-15 Sloped channel - 39.37" (1m) SK1-16 Sloped channel - 39.37" (1m) **67016** 6.89 7.09 175 180 7.87 8.07 200 205 3.53 63.1 SK1-17 Sloped channel - 39.37" (1m) **67017** 7.09 7.28 180 185 8.07 8.27 205 210 3.64 64.1 SK1-18 Sloped channel - 39.37" (1m) **67018** 7.28 7.48 185 190 8.27 8.46 210 215 3.75 65.1 SK1-19 Sloped channel - 39.37" (1m) **67019** 7.48 7.68 190 195 8.46 8.66 215 220 3.86 66.1 SK1-20 Sloped channel - 39.37" (1m) 2 **67020** 7.68 7.87 195 200 8.66 8.86 220 225 3.98 67.1 SK1-020 Constant depth channel - 39.37" (1m) ² 67045 7.87 7.87 200 200 8.86 8.86 225 225 3.97 67.1 SK1-0203 Constant depth channel - 19.69" (0.5m) ² 67046 7.87 7.87 200 200 8.86 8.86 225 225 1.98 33.9 SK1-21 Sloped channel - 39.37" (1m) **67021** 7.87 8.07 200 205 8.86 9.06 225 230 4.09 68.1 SK1-22 Sloped channel - 39.37" (1m) **67022** 8.07 8.27 205 210 9.06 9.25 230 235 4.20 69.1 SK1-23 Sloped channel - 39.37" (1m) **67023** 8.27 8.46 210 215 9.25 9.45 235 240 4.32 70.0 SK1-24 Sloped channel - 39.37" (1m) **67024** 8.46 8.66 215 220 9.45 9.65 240 245 4.42 71.0 SK1-25 Sloped channel - 39.37" (1m) **67025** 8.66 8.86 220 225 9.65 9.84 245 250 4.54 72.0 SK1-26 Sloped channel - 39.37" (1m) **67026** 8.86 9.06 225 230 9.84 10.04 250 255 4.66 73.0 SK1-27 Sloped channel - 39.37" (1m) **67027** 9.06 9.25 230 235 10.04 10.24 255 260 4.78 74.0 SK1-28 Sloped channel - 39.37" (1m) **67028** 9.25 9.45 235 240 10.24 10.43 260 265 4.89 75.0 **67029** 9.45 9.65 240 245 10.43 10.63 265 270 5.00 76.0 SK1-29 Sloped channel - 39.37" (1m) SK1-30 Sloped channel - 39.37" (1m) **67030** 9.65 9.84 245 250 10.63 10.83 270 275 5.11 77.0 SK1-030 Constant depth channel - 39.37" (1m) 2 67047 9.84 9.84 250 250 10.83 10.83 275 275 5.10 77.0 SK1-0303 Constant depth channel - 19.69" (0.5m) ² 67048 | 9.84 | 9.84 | 250 | 250 | 10.83 | 10.83 | 275 | 275 | 2.55 | 38.4 SK1-31 Sloped channel - 39.37" (1m) **67031** 9.84 10.04 250 255 10.83 11.02 275 280 5.23 78.0 SK1-32 Sloped channel - 39.37" (1m) **67032** 10.04 10.24 255 260 11.02 11.22 280 285 5.34 79.0 SK1-33 Sloped channel - 39.37" (1m) **67033** 10.24 10.43 260 265 11.22 11.42 285 290 5.45 80.0 SK1-34 Sloped channel - 39.37" (1m) **67034** 10.43 10.63 265 270 11.42 11.61 290 295 5.56 81.0 SK1-35 Sloped channel - 39.37" (1m) **67035** 10.63 10.83 *270 275* 11.61 11.81 *295 300* 5.68 82.0 SK1-36 Sloped channel - 39.37" (1m) **67036** 10.83 11.02 275 280 11.81 12.01 300 305 5.79 83.0 SK1-37 Sloped channel - 39.37" (1m) **67037** 11.02 11.22 280 285 12.01 12.20 305 310 5.91 84.0 SK1-38 Sloped channel - 39.37" (1m) **67038** 11.22 11.42 285 290 12.20 12.40 310 315 6.02 85.0 SK1-39 Sloped channel - 39.37" (1m) **67039** 11.42 11.61 290 295 12.40 12.60 315 320 6.13 86.0 SK1-40 Sloped channel - 39.37" (1m) 2 **67040** 11.61 11.81 295 300 12.60 12.8 320 325 6.25 87.0 SK1-040 Constant depth channel - 39.37" (1m) 2 67049 11.81 11.81 300 300 12.80 12.80 325 325 6.24 87.0 SK1-0403 Constant depth channel - 19.69" (0.5m) ² 67050 11.81 11.81 300 300 12.80 12.80 325 325 3.12 43.0 **96861** 9.84 9.84 250 250 10.83 10.83 275 275 SK1-304-6 6" inlet cap **96862** 9.84 9.84 250 250 10.83 10.83 275 275 SK1-308-6 6" outlet cap SK1-404-6 6" inlet cap **96863** 11.81 11.81 300 300 12.80 12.80 325 325 **96864** 11.81 11.81 300 300 12.80 12.80 325 325 SK1-408-6 6" outlet cap

1. PowerDrain is sold as channel only. Choose appropriate grate from page 74.

2. 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).

3. Closing/outlet cap can be cut down to suit all channels.

4. Catch basin details on page 73.

Universal end/4" inlet outlet cap Debris strainer for 4" bottom knockout

4" oval to 6" round outlet adaptor

Installation device

Grate removal tool

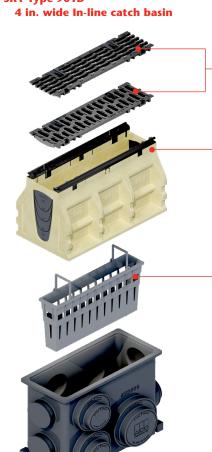
5. Debris strainer details for 4" dia. outlet on page 103.

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 pipe system for maintenance.

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

SK1-Type 901D



Series 600 grates - choice of Class F slotted or Class E longitudinal ADA compliant ductile iron grates with PowerLok™ boltless locking or Class F slotted ductile iron 4-bolt grate. See page 94.

Type 900 grates - choice of Class F slotted or ADA compliant ductile iron grates with PowerLok™ boltless locking or slotted ductile iron 4-bolt grate. See page 74.

Top section - polymer concrete with integrally cast-in ductile iron 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 SK1-901D. 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. SK1-631D uses deeper bucket with riser.

Riser - a plastic riser, supplied with SK1-631D, 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.

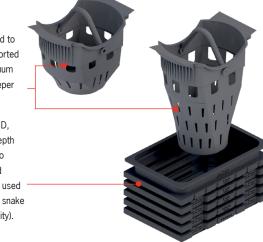
Base - polyethylene bases with wide range of Schedule 40 4". 6" and 8" cut-outs for easy pipe connection. Cut-outs on end and side allow connection of ACO foul air trap. Contact ACO for non-polyethylene bases.

Parts table - S100K Catch basins Part Gallons lbs 67051 SK1-901D in-line catch basin - 19.69" (0.5m) SK1-621D catch basin - 19.69" (0.5m) 67053 24.9 75.7 SK1-631D catch basin - 19.69" (0.5m) 67054 34.7 85.7 Series 600 optional riser 99902 9.8 10.0 Foul air trap - fits both Type 901D & 600 basins 90854 * Volume is up to grate seat and without trash bucket.

SK1-Series 600D 12 in. wide catch basin









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- - - - - 0.2

- - - - - - 2.8

96824 11.81 11.81 300 300 12.6 12.6 320 320

ACO DRAIN PowerDrain S100K

Available S100K grates

Description **€ ► ™ ८** inches (m) inches

F Load Class F - 200,000lbs - EN1433

4,177psi **Heavy Duty**

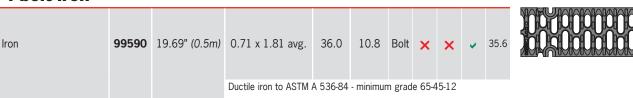
Longitudinal iron

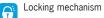


Slotted iron

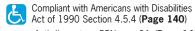


4-bolt iron



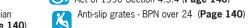








ASME A112.6.3 - 2001 Heel resistant less than 0.31" (8mm) (Page 140)



Choosing S100K grates

There are three available grate styles to fit the S100K heavy duty channel body.

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™, 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 S100K channel body allow a 4-bolt grate to be bolted into the channel for ultimate stiffness and security. Tamper resistant bolts can also be used.





PowerLok™ - boltless locking system



To lock, position side of grate into lugs on rail, 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.

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





4-Bolt grates



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.



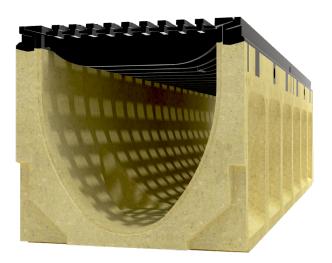
To remove grates, use wrench or socket set. Carefully store bolts for refitting of grates.

Grate accessories	Part No.	Weight
		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



Requires tamper resistant drive bit

Shacks **\$200K** - 8" wide heavy duty system

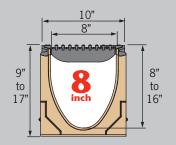


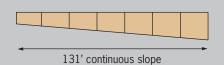
S200K is an 8" wide system with choice of Class F (90 ton) slotted or Class E (60 ton) ADA compliant ductile iron grates featuring the PowerLok™ patented boltless locking system. A 4-bolt slotted grate is also available.



PowerDrain S200K

Key Dimensions





Typical applications

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

Selection criteria

ABCDEF Light to heavy industrial 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



Increased hydraulic capacity



Constant depth and/or sloped depth channels

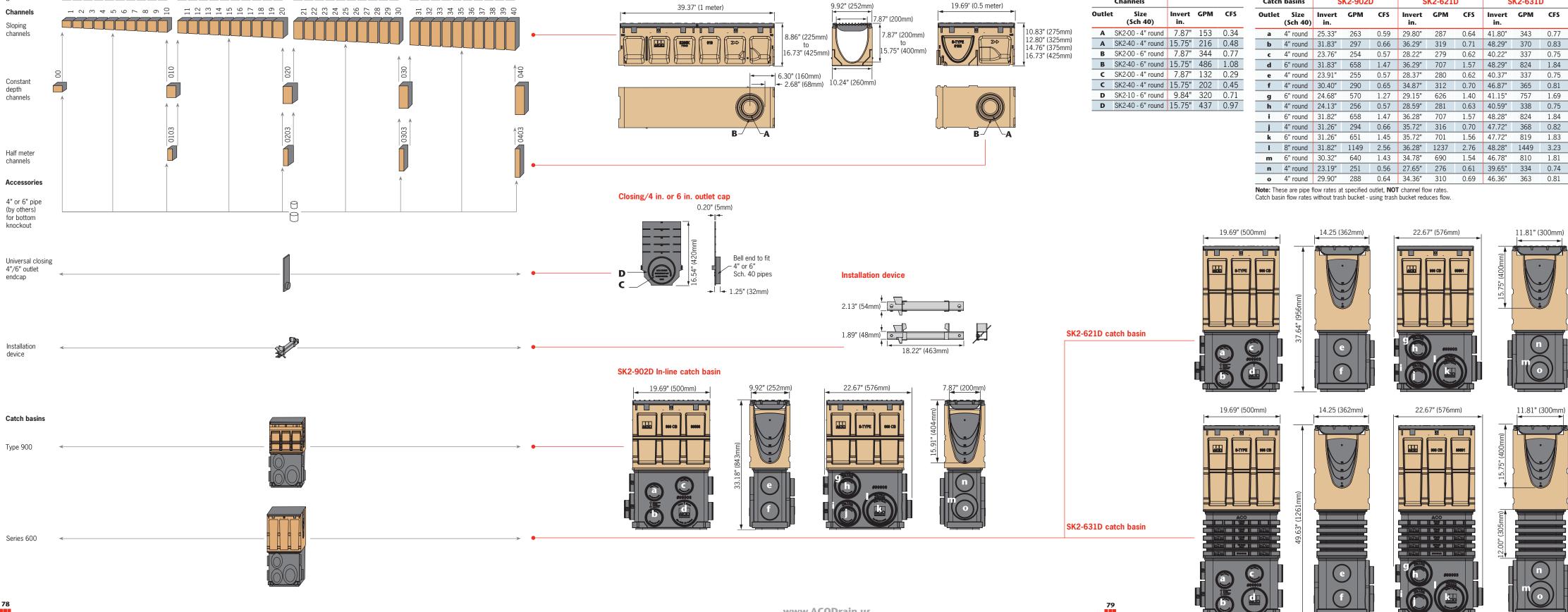
PowerDrain S200K ACO DRAIN

Half meter channels

Meter channels

System layout

grates



	Channels			
utlet	Size (Sch 40)	Invert in.	GPM	CFS
Α	SK2-00 - 4" round	7.87"	153	0.34
Α	SK2-40 - 4" round	15.75"	216	0.48
В	SK2-00 - 6" round	7.87"	344	0.77
В	SK2-40 - 6" round	15.75"	486	1.08
C	SK2-00 - 4" round	7.87"	132	0.29
C	SK2-40 - 4" round	15.75"	202	0.45
D	SK2-10 - 6" round	9.84"	320	0.71
D	SK2-40 - 6" round	15.75"	437	0.97

Catch	basins	S	K2-902	D	S	K2-621	D	S	K2-631	D
Outlet	Size (Sch 40)	Invert in.	GPM	CFS	Invert in.	GPM	CFS	Invert in.	GPM	CFS
а	4" round	25.33"	263	0.59	29.80"	287	0.64	41.80"	343	0.77
b	4" round	31.83"	297	0.66	36.29"	319	0.71	48.29"	370	0.83
c	4" round	23.76"	254	0.57	28.22"	279	0.62	40.22"	337	0.75
d	6" round	31.83"	658	1.47	36.29"	707	1.57	48.29"	824	1.84
e	4" round	23.91"	255	0.57	28.37"	280	0.62	40.37"	337	0.75
f	4" round	30.40"	290	0.65	34.87"	312	0.70	46.87"	365	0.81
g	6" round	24.68"	570	1.27	29.15"	626	1.40	41.15"	757	1.69
h	4" round	24.13"	256	0.57	28.59"	281	0.63	40.59"	338	0.75
i	6" round	31.82"	658	1.47	36.28"	707	1.57	48.28"	824	1.84
j	4" round	31.26"	294	0.66	35.72"	316	0.70	47.72"	368	0.82
k	6" round	31.26"	651	1.45	35.72"	701	1.56	47.72"	819	1.83
ı	8" round	31.82"	1149	2.56	36.28"	1237	2.76	48.28"	1449	3.23
m	6" round	30.32"	640	1.43	34.78"	690	1.54	46.78"	810	1.81
n	4" round	23.19"	251	0.56	27.65"	276	0.61	39.65"	334	0.74
0	4" round	29.90"	288	0.64	34.36"	310	0.69	46.36"	363	0.81

Meter channels - sloping & constant depth

0.5% sloped channels with ductile iron edge rail, in meter lengths and 40 depths which connect to create 40 meter (131'-2") continuously sloping run.

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 with ductile iron edge rail, in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels.



Closing/4 in. or 6 in. outlet cap

Fits all channels and manufactured from black 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 sealant. 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.





Type 902D In-line catch basin

Two part in-line catch basin with ductile iron edge rail; bases have 4", 6" and 8" drill-outs for pipe connections. Supplied with plastic trash bucket.

Any channel can be connected to 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.



A two part in-line catch basin with ductile iron edge rail; 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.

Any channel can be connected to catch basin by removing the end/side wall to the correct height. Drill-out guides provided for connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends. Two blanking end plates supplied with inline catch



Universal end cap Installation device Grate removal tool 4. Catch basin details on page 83.

\$200K Parts table SK2-00 Constant depth channel - 39.37" (1m) 2 68041 7.87 7.87 200 200 8.86 8.86 225 225 7.54 85.2 SK2-1 Sloped channel - 39.37" (1m) **68001** 7.87 8.07 200 205 8.86 9.06 225 230 7.94 85.2 SK2-2 Sloped channel - 39.37" (1m) **68002** 8.07 8.27 205 210 9.06 9.25 230 235 8.13 86.3 SK2-3 Sloped channel - 39.37" (1m) **68003** 8.27 8.46 210 215 9.25 9.45 235 240 8.33 87.4 SK2-4 Sloped channel - 39.37" (1m) **68004** 8.46 8.66 215 220 9.45 9.65 240 245 8.53 88.5 SK2-5 Sloped channel - 39.37" (1m) **68005** 8.66 8.86 220 225 9.65 9.84 245 250 8.74 89.6 SK2-6 Sloped channel - 39.37" (1m) **68006** 8.86 9.06 225 230 9.84 10.04 250 255 8.95 SK2-7 Sloped channel - 39.37" (1m) **68007** 9.06 9.25 230 235 10.04 10.24 255 260 9.16 SK2-8 Sloped channel - 39.37" (1m) **68008** 9.25 9.45 235 240 10.24 10.43 260 265 9.37 SK2-9 Sloped channel - 39.37" (1m) **68009** 9.45 9.65 240 245 10.43 10.63 265 270 9.58 SK2-10 Sloped channel - 39.37" (1m) ² **68010** 9.65 9.84 245 250 10.63 10.83 270 275 9.79 95.1 SK2-010 Constant depth channel - 39.37" (1m) 2 68043 9.84 9.84 250 250 10.83 10.83 275 275 9.59 95.2 SK2-0103 Constant depth channel - 19.69" (0.5m) 2 68044 9.84 9.84 250 250 10.83 10.83 275 275 4.80 61.2 **68011** 9.84 10.04 250 255 10.83 11.02 275 280 10.01 SK2-11 Sloped channel - 39.37" (1m) SK2-12 Sloped channel - 39.37" (1m) **68012** 10.04 10.24 255 260 11.02 11.22 280 285 10.22 97.3 SK2-13 Sloped channel - 39.37" (1m) **68013** 10.24 10.43 260 265 11.22 11.42 285 290 10.44 98.4 **68014** 10.43 10.63 265 270 11.42 11.61 290 295 10.66 99.6 SK2-14 Sloped channel - 39.37" (1m) SK2-15 Sloped channel - 39.37" (1m) 2 **68015** 10.63 10.83 270 275 11.61 11.81 295 300 10.88 100.7 SK2-16 Sloped channel - 39.37" (1m) **68016** 10.83 11.02 275 280 11.81 12.01 300 305 11.10 101.8 SK2-17 Sloped channel - 39.37" (1m) **68017** 11.02 11.22 280 285 12.01 12.20 305 310 11.32 102.9 SK2-18 Sloped channel - 39.37" (1m) **68018** 11.22 11.42 285 290 12.20 12.40 310 315 11.54 104.0 SK2-19 Sloped channel - 39.37" (1m) **68019** 11.42 11.61 290 295 12.40 12.60 315 320 11.76 105.1 SK2-20 Sloped channel - 39.37" (1m) 2 **68020** 11.61 11.81 295 300 12.60 12.80 320 325 11.98 106.2 SK2-020 Constant depth channel - 39.37" (1m) 2 68045 11.81 11.81 300 300 12.80 12.80 325 325 11.78 106.2 SK2-0203 Constant depth channel - 19.69" (0.5m) 2 68046 11.81 11.81 300 300 12.80 12.80 325 325 5.89 68.8 SK2-21 Sloped channel - 39.37" (1m) **68021** 11.81 12.01 300 305 12.80 12.99 325 330 12.21 107.3 SK2-22 Sloped channel - 39.37" (1m) **68022** 12.01 12.20 305 310 12.99 13.19 330 335 12.42 108.4 SK2-23 Sloped channel - 39.37" (1m) **68023** 12.20 12.40 310 315 13.19 13.39 335 340 12.65 109.5 SK2-24 Sloped channel - 39.37" (1m) **68024** 12.40 12.60 315 320 13.39 13.58 340 345 12.87 110.6 SK2-25 Sloped channel - 39.37" (1m) 2 **68025** 12.60 12.80 320 325 13.58 13.78 345 350 13.10 111.7 SK2-26 Sloped channel - 39.37" (1m) **68026** 12.80 12.99 325 330 13.78 13.98 350 355 13.32 112.3 SK2-27 Sloped channel - 39.37" (1m) **68027** 12.99 13.19 330 335 13.98 14.17 355 360 13.56 113.9 **68028** 13.19 13.39 335 340 14.17 14.37 360 365 13.77 115.8 SK2-28 Sloped channel - 39.37" (1m) **68029** 13.39 13.58 340 345 14.37 14.57 365 370 13.99 116.1 SK2-29 Sloped channel - 39.37" (1m) SK2-30 Sloped channel - 39.37" (1m) **68030** 13.58 13.78 345 350 14.57 14.76 370 375 14.22 117.2 SK2-030 Constant depth channel - 39.37" (1m) 2 68047 13.78 13.78 350 350 14.76 14.76 375 375 14.01 117.2 SK2-0303 Constant depth channel - 19.69" (0.5m) 2 68048 13.78 13.78 350 350 14.76 14.76 375 375 7.05 73.3 SK2-31 Sloped channel - 39.37" (1m) **68031** 13.78 13.98 350 355 14.76 14.96 375 380 14.44 118.4 SK2-32 Sloped channel - 39.37" (1m) **68032** 13.98 14.17 355 360 14.96 15.16 380 385 14.67 119.5 SK2-33 Sloped channel - 39.37" (1m) **68033** 14.17 14.37 360 365 15.16 15.35 385 390 14.89 120.6 SK2-34 Sloped channel - 39.37" (1m) **68034** 14.37 14.57 365 370 15.35 15.55 390 395 15.11 121.7 SK2-35 Sloped channel - 39.37" (1m) 2 **68035** 14.57 14.76 *370 375* 15.55 15.75 *395* 400 15.34 122.8 SK2-36 Sloped channel - 39.37" (1m) **68036** 14.76 14.96 375 380 15.75 15.94 400 405 15.56 123.9 **68037** 14.96 15.16 380 385 15.94 16.14 405 410 15.78 125.0 SK2-37 Sloped channel - 39.37" (1m) SK2-38 Sloped channel - 39.37" (1m) **68038** 15.16 15.35 385 390 16.14 16.34 410 415 16.02 126.1 SK2-39 Sloped channel - 39.37" (1m) **68039** 15.35 15.55 390 395 16.34 16.54 415 420 16.23 127.2 SK2-40 Sloped channel - 39.37" (1m) ² **68040** 15.55 15.75 395 400 16.54 16.73 420 425 16.46 128.3 SK2-040 Constant depth channel - 39.37" (1m) 2 68049 15.75 15.75 400 400 16.73 16.73 425 425 16.27 128.3 SK2-0403 Constant depth channel - 19.69" (0.5m) ² 68050 15.75 15.75 400 400 16.73 16.73 425 425 8.14 82.1 **96823** 15.75 15.75 400 400 16.54 16.54 420 420 Debris strainer for 4" bottom knockout - - - - 0.2 _ _ _ _ 0.3

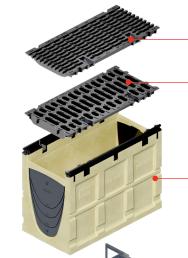
- 1. PowerDrain is sold as channel only. Choose appropriate grate from page 84.
- 2. Preformed 4" & 6" dia knock-outs cast on underside of certain channels (00, 5, 10, 010, 0103, 15, 20, 020, 0203, 25, 30, 030, 0303, 35, 40, 040,
- 3. Closing/outlet cap can be cut down to suit all channels.
- 5. Debris strainer details for 4" dia. outlet on page 103.

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 pipe system for maintenance.

Type 902D provides an in-line catch basin (same width and visually indistinguishable from trench run) and the Series 600D is 12" wide and provides greater hydraulic output.

SK2-Type 902D 8 in. wide In-line catch basin



Series 600 grates - choice of Class F slotted or Class E longitudinal ADA compliant ductile iron grates with PowerLok™ boltless locking or Class F slotted ductile iron 4-bolt grate. See page 94.

Type 900 grates - choice of Class F slotted or Class E longitudinal ADA compliant ductile iron grates supplied with PowerLok™ boltless locking or Class F slotted ductile iron 4-bolt grate. See page 84.

Top section - polymer concrete with integrally cast-in ductile iron frame for grate. 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 SK2-902D and kit available for Series 600D. 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 flow reduction. SK2-631D uses deep bucket with riser.

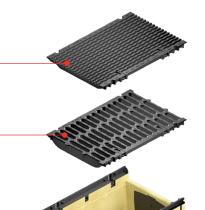
Riser - a plastic riser, supplied with SK2-631D, designed to provide additional catch basin depth and hydraulic output. Guides enable cutting to size at 2" (50mm) intervals - minimum 2" and maximum 12" height. Additional units can be used (a maximum of 2 is recommended to ensure snake access is maintained 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.

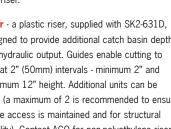
Parts table - S200K Catch basins	Part	Volume	Weight
	No.	Gallons*	lbs
	NO.	Gallotis	11/3
SK2-902D in-line catch basin - 19.69" (0.5m)	68053	18.1	81.8
SK2-621D catch basin - 19.69" (0.5m)	68055	30.4	116.0
SK2-631D catch basin - 19.69" (0.5m)	68056	40.2	126.0
Series 600 optional riser	99902	9.8	10.0
Foul air trap - fits both Type 902D & 600 basins	90854	-	1.2
* Volume is up to grate seat and without track bucket			

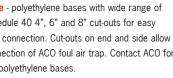
Volume is up to grate seat and without trash bucket.

SK2-Series 600D 12 in. wide catch basin











www.ACODrain.us www.ACODrain.us **ACO DRAIN PowerDrain S200K**

Available S200K grates

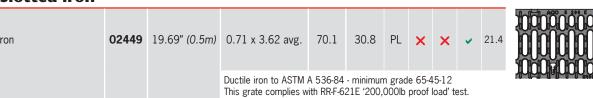
Description Length **6** € **8** € inches (m) E 🖟 Load Class E - 135,000lbs - EN1433 2,321psi **Industrial Longitudinal iron**

Iron	72263	19.69" (0.5m)	1.34 x 0.43	52.4	26.4	PL	•	×	•	55.6	ACO	5 200 K	20 Pr	00,000lb coof Load
			Ductile iron to ASTM A						est.			○ 1170	9 9668	<u>z√ </u>

F 🚉 Load Class F - 200,000lbs - EN1433 3,481psi

Heavy duty

Slotted iron



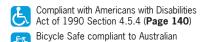
4-halt iron

	4-boit iron											
•	Iron	99591	19.69" (0.5m)	0.71 x 3.62 avg.	71.3	26.4	Bolt	×	×	~	21.4	
				Ductile iron to ASTM. This grate complies w						est.		





200,000lb proof load compliant (Page 128)



Standard AS 3996 - 2006 (Page 140)



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



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

Choosing S200K grates

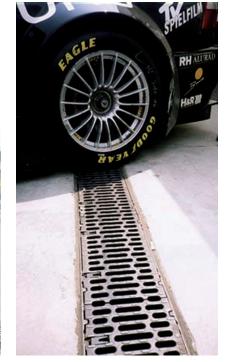
There are three available grate styles to fit the S200K heavy duty channel body.

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™, 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 S200K channel body allow a 4-bolt grate to be bolted into the channel for ultimate stiffness and security. Tamper resistant bolts can also be used.





PowerLok™ - boltless locking system







To open PowerLok™, insert tool between rail and PowerLok™ device.



Rotate tool 90°, PowerLok™ device should push away from rail.

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





4-Bolt grates



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.

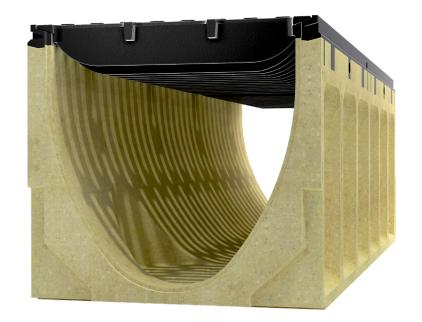
Grate accessories	Part No.	Weight
		lbs
PowerLok safety clip (red)	10443	0.1
Replacement bolt for 4-bolt grate	95526	0.1
Tamper resistant bolt for 4-bolt grate	138127	0.1
Tamper resistant bolt drive	138128	0.1



Requires tamper resistant drive bit



\$300K - 12" wide heavy duty system

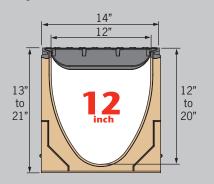


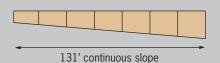
S300K is a 12" wide system with choice of Class F (90 ton) slotted or Class E (60 ton) ADA compliant ductile iron grates featuring the patented PowerLok™ boltless locking system. A 4-bolt slotted grate is also available.



PowerDrain \$300K

Key Dimensions





Typical applications

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

Selection criteria

ABCDEF Light to heavy industrial 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



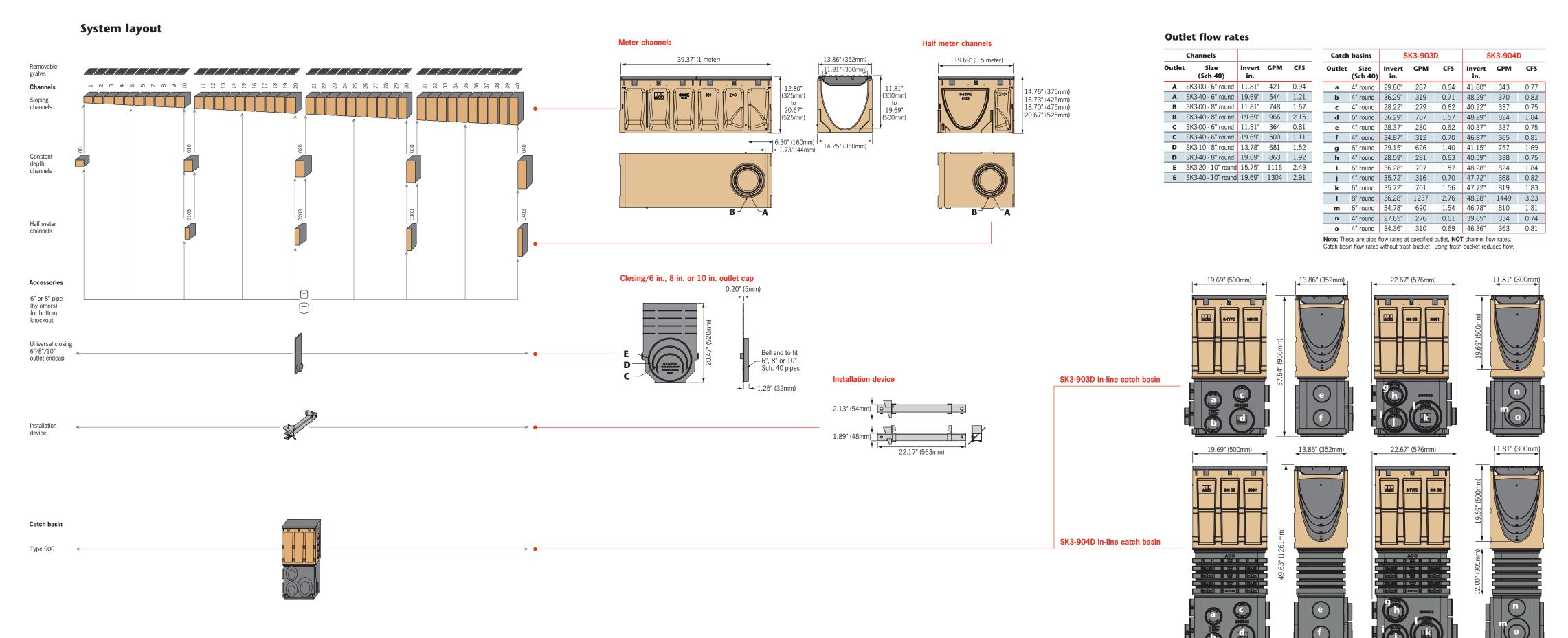


Increased hydraulic capacity



Constant depth and/or sloped depth channels

ACO DRAIN
PowerDrain \$300K



12 in. wide In-line catch basin

Meter channels - sloping & constant depth

0.5% sloped channels with ductile iron edge rail; in meter lengths and 40 depths which connect to create 40 meter (131'-2") continuously sloping run.

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 with ductile iron edge rail; in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels.



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

Fits all channels and manufactured from black 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.





A two part in-line catch basin with ductile iron edge rail; 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.

Any channel can be connected to catch basin by removing the end/side wall to the correct height. Drill out guides provided for 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.



ACO DRAIN

S300K Parts table	Part		Invert	Depth		(Overall	Depth	1	Vol	Wgt	
	No.		hes	m		Inches mm			m	Gal	lbs	
SV2 00 Constant doubt showns 20 27" (1m)	60041	female		female	male	female	male	female	male	10.01	140	
SK3-00 Constant depth channel - 39.37" (1m) ²	69041		11.81	300	300	12.80		325	325	18.01		
SK3-1 Sloped channel - 39.37" (1m)	69001	11.81		300 305	305	12.80		325	330	19.58	140.	
SK3-2 Sloped channel - 39.37" (1m)		12.01		305	310	12.99		330	335	20.01		
SK3-3 Sloped channel - 39.37" (1m)	69003		12.40	310	315	13.19		335	340		142.	
SK3-4 Sloped channel - 39.37" (1m)	69004	12.40		315	320	13.39		340	345	20.86		
SK3-5 Sloped channel - 39.37" (1m) ²	69005		12.80	320	325	13.58		345	350	21.28	145.	
SK3-6 Sloped channel - 39.37" (1m)		12.80		325	330	13.78		350	355	21.69		
SK3-7 Sloped channel - 39.37" (1m)	69007		13.19	330	335	13.98		355	360	22.11	148.	
SK3-8 Sloped channel - 39.37" (1m)	69008	13.19		335	340	14.17		360	365	22.51		
SK3-9 Sloped channel - 39.37" (1m)	69009		13.58	340	345	14.37		365	370	22.92		
SK3-10 Sloped channel - 39.37" (1m) ²		13.58		345		14.57		370	375	23.32		
SK3-010 Constant depth channel - 39.37" (1m) ²			13.78	350	350		14.76	375	375	21.22		
SK3-0103 Constant depth channel - 19.69" (0.5m) ²		13.78		350	350	14.76		375	375	10.61		
SK3-11 Sloped channel - 39.37" (1m)	69011		13.98	350	355	14.76		375	380	23.72	153.	
SK3-12 Sloped channel - 39.37" (1m)	69012	13.98		355	360	14.96		380	385	24.11	155.	
SK3-13 Sloped channel - 39.37" (1m)	69013		14.37	360	365	15.16		385	390	24.51	156.	
SK3-14 Sloped channel - 39.37" (1m)	69014	14.37		365	370	15.35		390	395	24.89		
SK3-15 Sloped channel - 39.37" (1m) ²	69015		14.76	370	375	15.55		395	400	25.27	149.	
SK3-16 Sloped channel - 39.37" (1m)		14.76		375	380	15.75		400	405	25.68		
SK3-17 Sloped channel - 39.37" (1m)	69017		15.16	380	385		16.14	405	410	26.06	161.	
SK3-18 Sloped channel - 39.37" (1m)	69018	15.16		385	390	16.14		410	415	26.44	163.	
SK3-19 Sloped channel - 39.37" (1m)	69019		15.55	390	395	16.34		415	420	26.83	164.	
SK3-20 Sloped channel - 39.37" (1m) ²	69020	15.55		395	400	16.54		420	125	27.21		
SK3-020 Constant depth channel - 39.37" (1m) 2			15.75	400	400		16.73	425	425	24.53		
SK3-0203 Constant depth channel - 19.69" (0.5m) ²	69047	15.75		400	400	16.73		425	425	12.27		
SK3-21 Sloped channel - 39.37" (1m)	69021		15.94	400	405	16.73		425	430	27.59	167.	
SK3-22 Sloped channel - 39.37" (1m)	69022	15.94		405	410	16.93		430	435	27.97	168.	
SK3-23 Sloped channel - 39.37" (1m)	69023		16.34	410	415		17.32	435	440	28.34	170.	
SK3-24 Sloped channel - 39.37" (1m)	69024		16.54	415	420	17.32	17.52	440	445	28.72		
SK3-25 Sloped channel - 39.37" (1m) ²	69025		16.73	420	425	17.52		445	450	29.09	172.	
SK3-26 Sloped channel - 39.37" (1m)	69026	16.73		425	430	17.72		450	455	29.47		
SK3-27 Sloped channel - 39.37" (1m)	69027		17.13	430	435	17.91		455	460	29.84	175.	
SK3-28 Sloped channel - 39.37" (1m)	69028	17.13		435	440	18.11		460	465	30.21		
SK3-29 Sloped channel - 39.37" (1m)	69029		17.52	440	445	18.31		465	470	30.58	178.	
SK3-30 Sloped channel - 39.37" (1m) ²	69030	17.52		445	450	18.50		470	475	30.95		
SK3-030 Constant depth channel - 39.37" (1m) 2			17.72	450	450	18.70		475	475	27.87		
SK3-0303 Constant depth channel - 19.69" (0.5m) ²	69049		17.72	450	450	18.70		475	475	13.94		
SK3-31 Sloped channel - 39.37" (1m)	69031	17.72		450	455	18.70		475	480	31.32	180.	
SK3-32 Sloped channel - 39.37" (1m) SK3-33 Sloped channel - 39.37" (1m)	69032	17.91		455	460	18.90		480 485	485	31.69 32.06	182.	
	69033	18.11		460	465	19.09			490		183.	
SK3-34 Sloped channel - 39.37" (1m)	69034		18.50	465	470	19.29		490	495	32.42		
SK3-35 Sloped channel - 39.37" (1m) ²	69035		18.70	470	475	19.49		495	500		186.	
SK3-36 Sloped channel - 39.37" (1m)	69036	18.70		475	480			500	505	33.16		
SK3-37 Sloped channel - 39.37" (1m)	69037		19.09	480	485	19.88		505	510	33.52		
SK3-38 Sloped channel - 39.37" (1m)	69038			485	490		20.28	510	515	33.88		
SK3-39 Sloped channel - 39.37" (1m)	69039	19.29		490	495		20.47	515	520	34.25		
SK3-40 Sloped channel - 39.37" (1m) ²		19.49		495	500	20.47		520 525	525	34.61		
SK3-040 Constant depth channel - 39.37" (1m) 2			19.69	500	500		20.67	525	525	31.25		
SK3-0403 Constant depth channel - 19.69" (0.5m) ²		19.69		500	500		20.67	525		15.63		
SK3 Universal closing/inlet/outlet end cap Installation device	96827 97479		19.69	500	500	20.47	20.47	520	520	-	2.5 4.9	
Grate removal tool	01318	-	-	-	-	-	-	-	-	-	0.3	
arate removal tool	01010											

1. PowerDrain is sold as channel only. Choose appropriate grate from page 94.

2. Preformed 6" & 8" dia knock-outs cast on underside of certain channel (00, 5, 10, 010, 0103, 15, 20, 020, 0203, 25, 30, 030, 0303, 35, 40, 040, 0403).

3. Closing/outlet cap can be cut down to suit all channels.

4. Catch basin details on page 93.

Polymer concrete catch basins

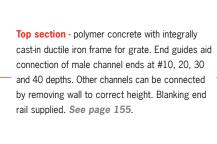
Polymer concrete catch basins are used either as stand alone area drains or more commonly as the outlet to a trench run. They provide the highest hydraulic output and allow easy access to the pipe system for maintenance.

Type 903D and 904D are same width and visually indistinguishable from trench run.

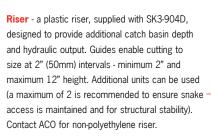
SK3-Type 903D 12 in. wide In-line catch basin



Type 900 grates - choice of Class F slotted or Class E longitudinal ADA compliant ductile iron grates with PowerLok™ boltless locking or Class F slotted ductile iron 4-bolt grate. See page 94.







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 - \$300K Catch basins	Part	Volume	Weight
	No.	Gallons*	lbs
SK3-903D In-line catch basin - 19.69" (0.5m)	69053	30.4	99.4
SK3-904D In-line catch basin - 19.69" (0.5m)	69054	40.2	104.4
Optional riser	99902	9.8	10.0
Foul air trap	90854	-	1.2



SK3-Type 904D





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

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ACO DRAIN PowerDrain S300K

Available S300K grates

Description Length **6** € **8** € inches (m) E 🖟 Load Class E - 135,000lbs - EN1433 2,321psi **Industrial Longitudinal iron 96833** 19.69" (0.5m) 63.2 64.0 PL 🗸 0.76 x 0.31 Ductile iron to ASTM A 536-84 - minimum grade 65-45-12

F 🚵 Load Class F - 200,000lbs - EN1433 3,481psi **Heavy duty**

Slotted iron

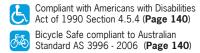
	Siotted ii oii											
•	Iron	02445	19.69" (0.5m)	0.71 x 3.61 avg.	122.6	50.0	PL	×	×	~	31.5	
				Ductile iron to ASTM						oct		

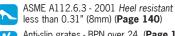
4-bolt iron

1 2016 11 011											WY
Iron	99592	19.69" (0.5m)	0.71 x 3.75 avg.	115.5	50.2	Bolt	×	×	•	31.5	
			Ductile iron to ASTM A						est.		

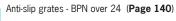












Choosing S300K grates

There are three available grate styles to fit the S300K heavy duty channel body.

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™, 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 S300K channel body allow a 4-bolt grate to be bolted into the channel for ultimate stiffness and security. Tamper resistant bolts





PowerLok™ - boltless locking system



To lock, position side of grate into lugs on rail, 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.

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





4-Bolt grates



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.

Grate accessories	Part No.	Weight
		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
Tamner resistant holt drive	138128	0.1



Requires tamper resistant drive bit

