



PowerDrain Section

Heavy duty trench drainage

Surface Drainage

- 6 Surface drainage options
- 8 Product selection
- 10 Trench drain hydraulics
- 16 Loadings
- 22 Material data
- 24 End user requirements

Standard Products

- 26 KlassikDrain - K100S, KS100S
- 40 PowerDrain - S100K, S300K**
- 52 Polymer concrete catch basins**
- 54 Accessories**
- 56 FlowDrain - FG100, FG200
- 70 FastForm - FF300, FF600

This PDF relates to this section only

ACO Drain offer a comprehensive 128 page catalog covering everything you need to know about trench drainage and the products and services available.

To ease electronic transmission of data the catalog has been divided into sections - for a hard copy or other sections call (800) 543-4764 or go to www.acousa.com.

Problem Solving Products

- 78 SlabDrain - H80, H100, H80K, H100K, H100SK
- 84 ChemDrain - C100, CK100S, CS100K, CH80, CH100, CH80K, CH100K, CH100SK
- 100 Brickslot
- 102 Membrane Drain
- 104 MiniKlassik
- 106 Cross Sidewalk Drain (CSD)

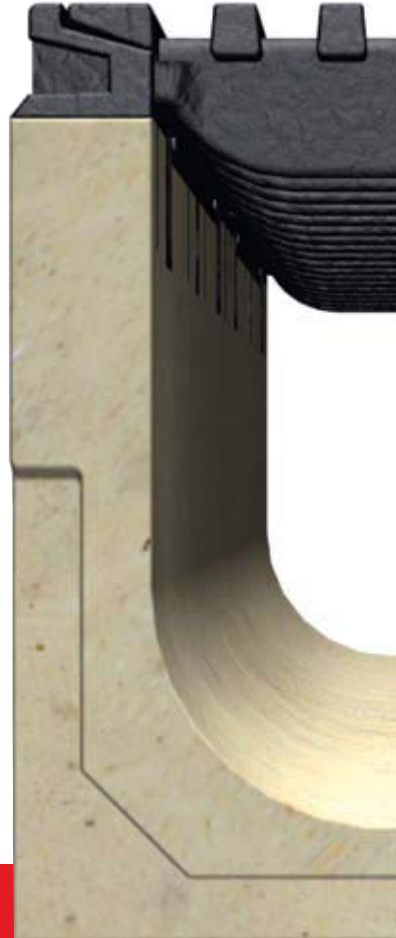
Technical Support and Other Information

- 110 Trench hydraulics service
- 111 Grate hydraulics service
- 112 Layout & scheduling service
- 114 Ponding analysis
- 115 Chemical resistance
- 116 Construction and installation
- 120 Installation diagrams
- 122 Volumetric channel capacities
- 123 Glossary & part number listing



Typical applications

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



S100K
S300K

Heavy duty sloped trench drain system ideal for applications requiring the most rugged product.

PowerDrain is available in both 4" and 12" wide systems and features the patented PowerLok boltless locking system to secure grates.

The interconnecting channels feature integrally cast-in ductile iron edge rails.





PowerDrain

Heavy duty trench drainage



PowerDrain Features



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



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

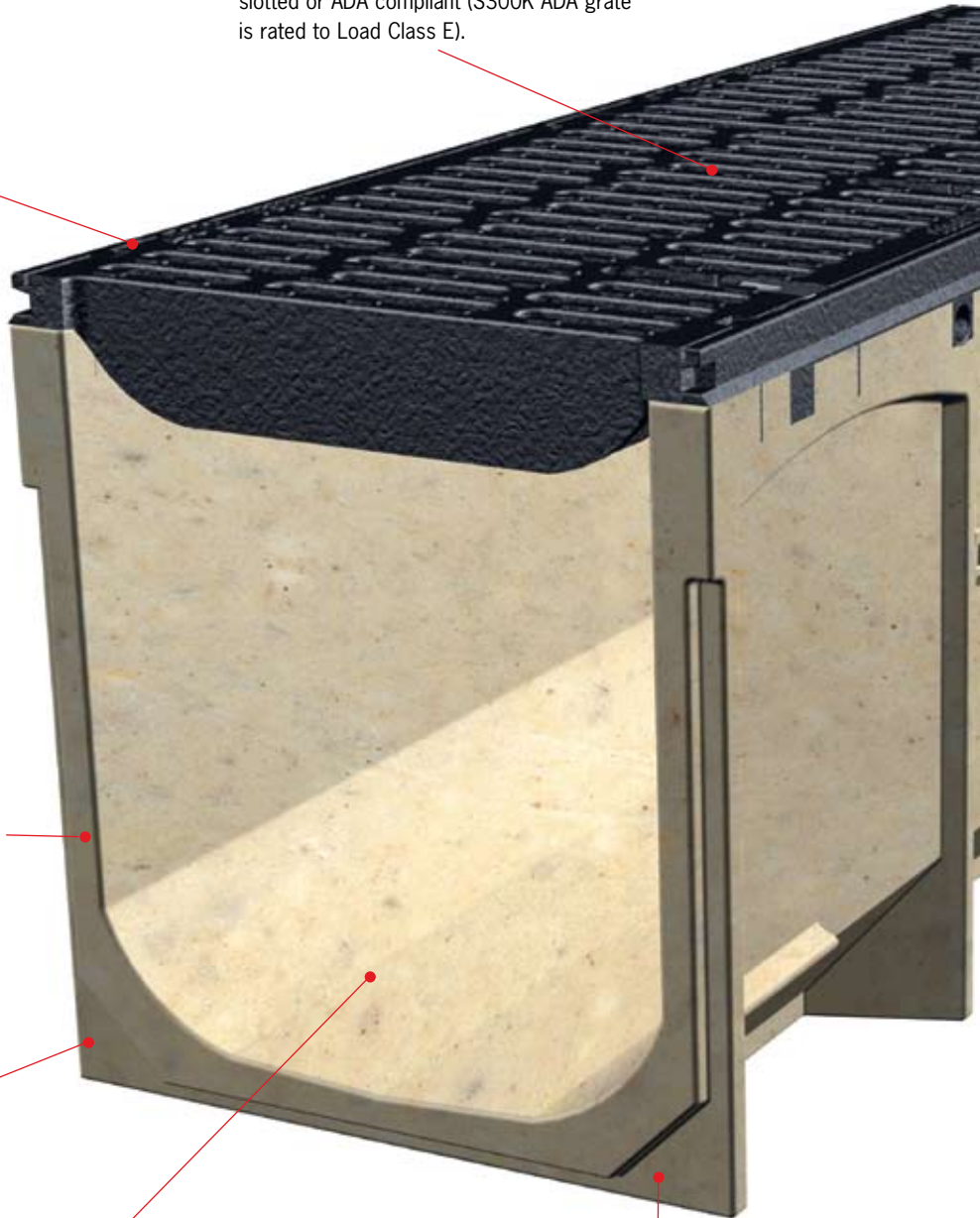
Sloped (0.6%) channel units - meter long units provide 98'-5" continuous slope. This equates to 1/16" fall per linear foot. Neutral units can be used to extend run lengths.

12" internal width S300K - meter (39.37") and half meter (19.69") channels. 'U' shaped bottom improves flow hydraulics.

Ductile iron grates - heavy duty ductile iron grates in choice of Load Class F slotted or ADA compliant (S300K ADA grate is rated to Load Class E).

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

See page 22 for material properties.





Ductile iron edge rail - integrally cast-in rail provides maximum strength and protection for channel body.

Shock absorbing widgets, with M10 stainless steel threads, are fitted in rail to assist with grate fit and aid hanging installation.



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

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.

Bottom drill-outs are included on all channel units to allow vertical evacuation of the system along the run.

S100K has Schedule 40 drill-outs for 4" or 6" pipe.

Note: For 6" drill-out, an oval to round adapter will be required. (Part No 95140)

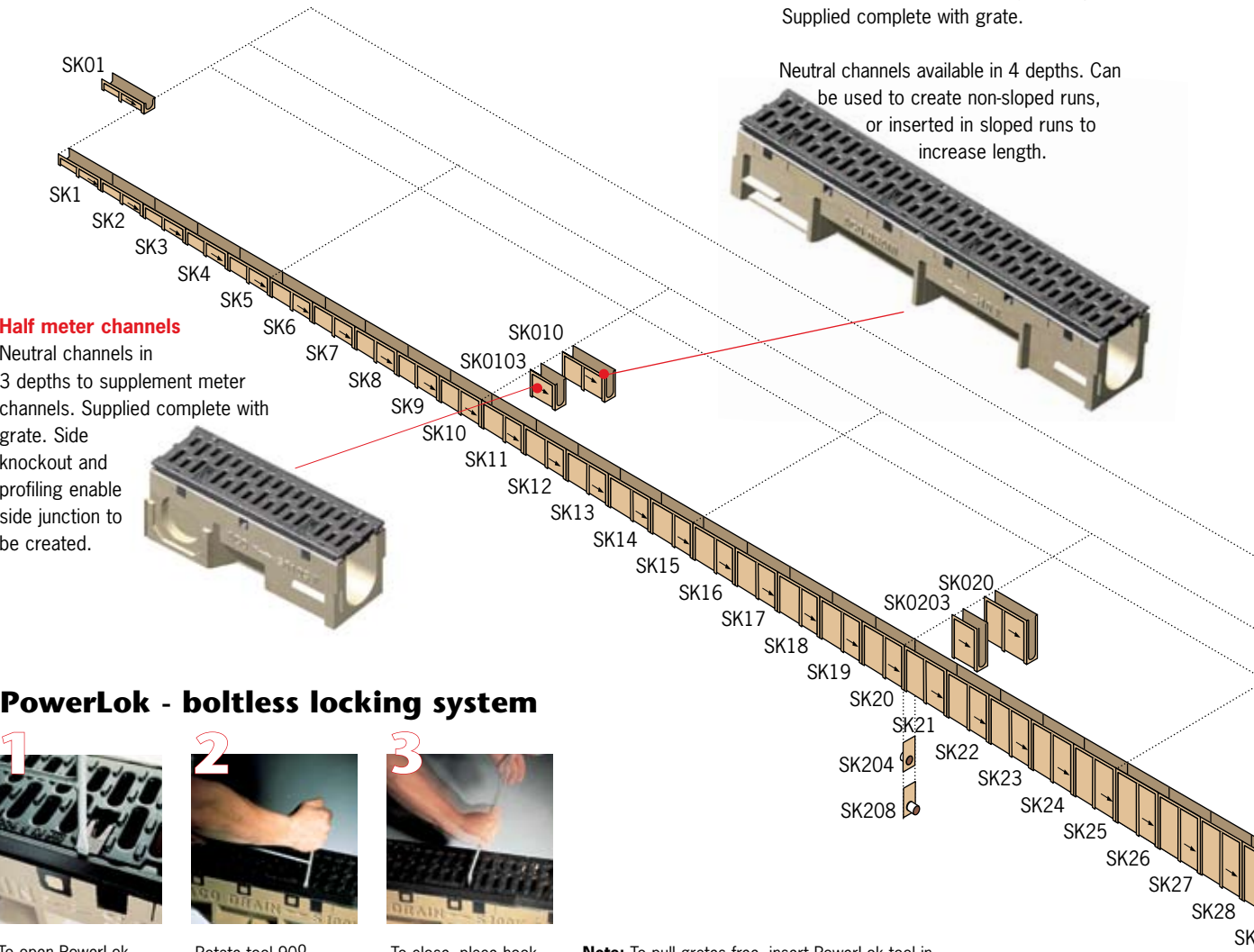
See page 54 for details.

S300K has a Schedule 40 drill-out for 6" and 8" pipe.



4" internal width S100K - Modular meter (39.37") and half meter (19.69") channels. 'U' shaped bottom improves flow hydraulics.

System layout



PowerLok - boltless locking system



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

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

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

Note: To pull grates free, insert PowerLok tool in between grate slots and pull upwards. Subsequent grates can be pulled up by hand.



ADA IRON

DIN 19580 Class F - 200,000lbs - 4,182psi

Heavy duty



Description	Length ins (meters)	Weight lbs	Slot size (ins)	Intake area sq. ins.	Locking Type
Ductile iron*	19.69" (0.5m)	13.6	0.45 x 1.36	25.2	PowerLok

* Ductile iron to ASTM A 536-84 - grade 65-45-12



SLOTTED IRON

DIN 19580 Class F - 200,000lbs - 4,182psi

Heavy duty



Description	Length ins (meters)	Weight lbs	Slot size (ins)	Intake area sq. ins.	Locking Type
Ductile iron*	19.69" (0.5m)	12.3	1.98 x 0.43 avg.	23.0	PowerLok

* Ductile iron to ASTM A 536-84 - grade 65-45-12

Closing/4" inlet/outlet cap

Fits all channels, manufactured from black ABS to complement edge rail. Guides aid cutting to correct height. 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.

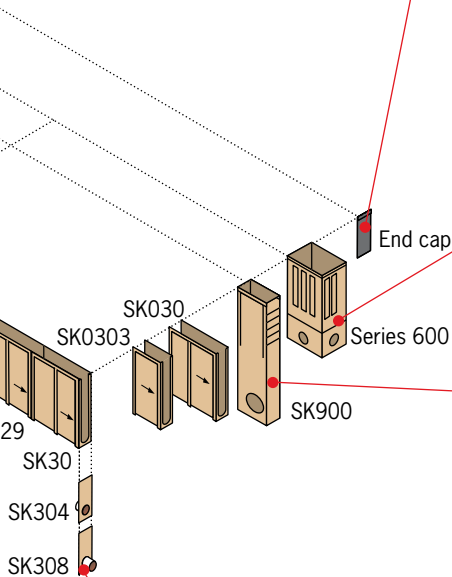


Series 600 catch basins

Catch basins with 4", 6" and 8" drill-outs for pipe connection. Supplied complete with grate. Available with plastic trash bucket or filter bag. Riser unit fits between top and bottom unit. Options include a choice of deep or short bases.

Any channel can be connected into the catch basin by removing the end wall to the correct height. Drill-outs guide connection to channels 5, 10, 15, 20, 25 and 30.

See page 52 for details.



6" Sch. 40 inlet/outlet caps

6" Schedule 40 plain end pipe, polypropylene oval to round adapter cast into polymer concrete end cap, 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.



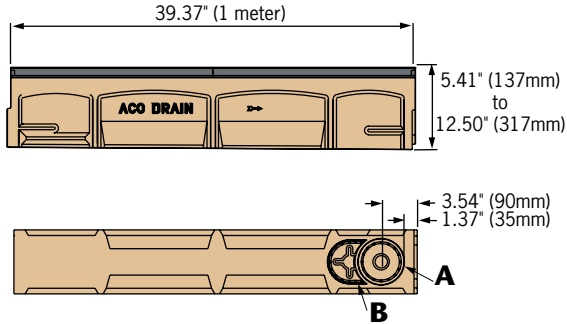
SK900 catch basin

In-line catch basin with 4" and 6" drill-outs for pipe connection. Supplied with grate. Available with plastic trash bucket. Options include in-line or side foul air trap.

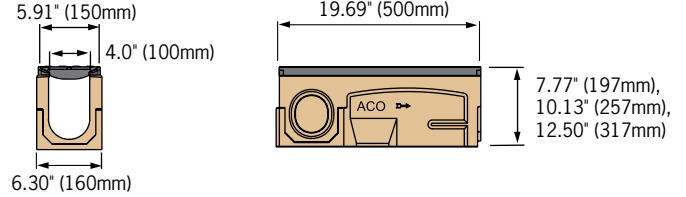
Any channel can be connected into the catch basin by removing the end wall to the correct height. Drill-outs guide connection to channels 5, 10, 15, 20, 25 and 30.



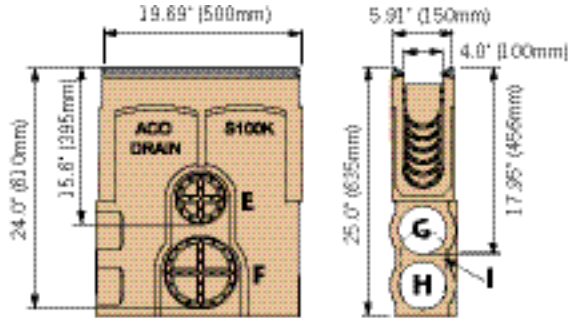
One meter channel



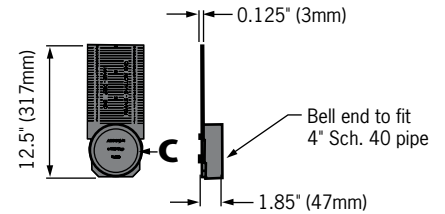
Half meter channel



In-line catch basin



Closing/inlet/outlet cap



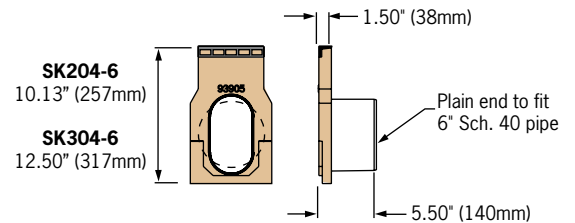
Outlet flow rates

Outlet	Product	Outlet Size (Sch 40)	Invert Depth	GPM	CFS
A	SK01 channel	4" round	4.41	117	0.26
A	SK030 channel	4" round	11.50	185	0.41
B	SK01 channel	6" oval	4.41	183	0.40
B	SK030 channel	6" oval	11.50	288	0.64
C	SK010 channel	4" round	6.77	119	0.27
C	SK030 channel	4" round	11.50	168	0.39
D	SK020 channel	6" oval	9.13	220	0.50
D	SK030 channel	6" oval	11.50	255	0.59
E	SK900*	4" round	15.60	200	0.45
F	SK900*	6" round	24.00	561	1.25
G	SK900*	4" round	17.95	222	0.49
H	SK900*	4" round	24.00	255	0.59
I	SK900*	6" oval	24.00	399	0.91

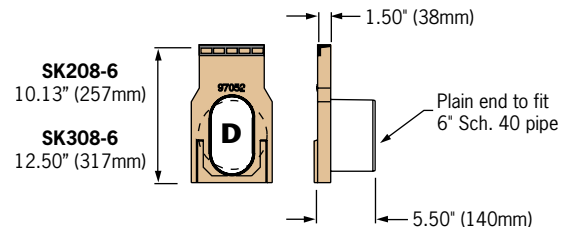
Note: These are the pipe flow rates at the specified outlet, **NOT** channel flow rates.

* SK900 flow rates without trash bucket - using trash bucket reduces flow.

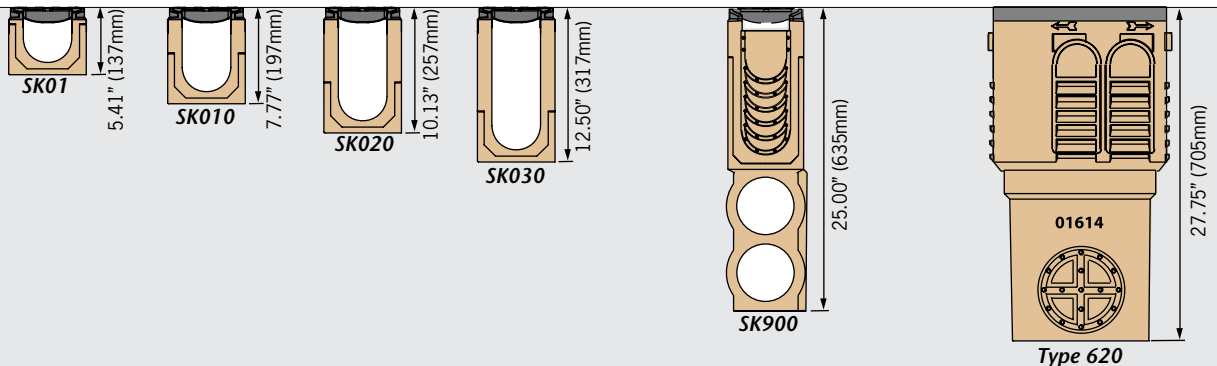
6" Oval inlet cap



6" Oval outlet cap



Ground line



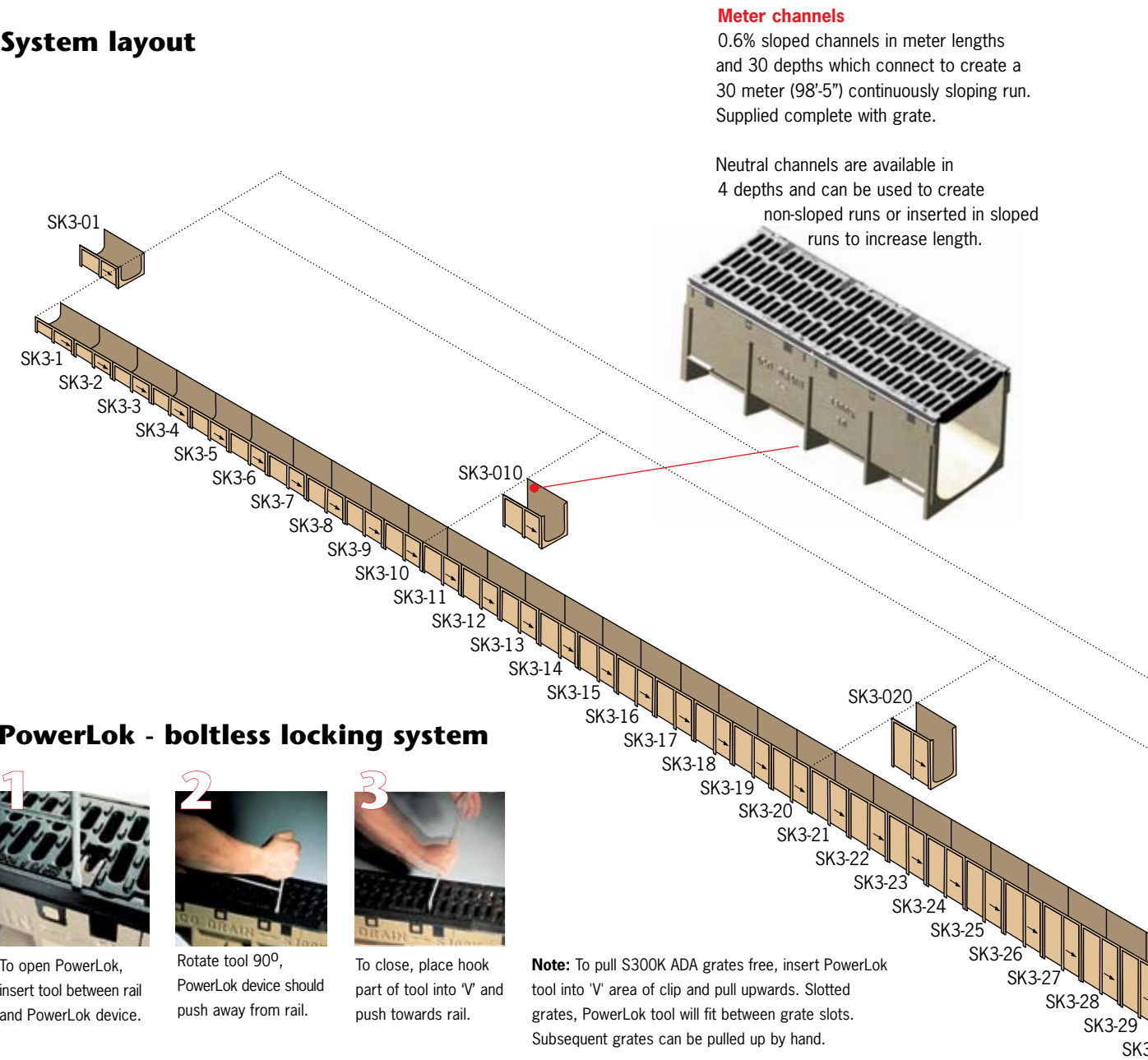
S100K Parts list

Description	Part		Invert Depth				Overall Depth				Weight ²
	No	ADA ²	inches		mm		inches		mm		lbs
			Slotted	ADA ²	Female	Male	Female	Male	Female	Male	
SK01 Neutral channel - 39.37" (1m)	90003	94022	4.41	4.41	112	112	5.41	5.41	137	137	74.4
SK1 Sloped channel - 39.37" (1m)	90015	94039	4.41	4.65	112	118	5.41	5.65	137	143	75.4
SK2 Sloped channel - 39.37" (1m)	90027	94048	4.65	4.88	118	124	5.65	5.88	143	149	76.4
SK3 Sloped channel - 39.37" (1m)	90032	94057	4.88	5.12	124	130	5.88	6.12	149	155	77.5
SK4 Sloped channel - 39.37" (1m)	90044	94065	5.12	5.35	130	136	6.12	6.35	155	161	78.5
SK5 Sloped channel - 39.37" (1m)	90056	94076	5.35	5.59	136	142	6.35	6.59	161	167	79.5
SK6 Sloped channel - 39.37" (1m)	90069	94081	5.59	5.83	142	148	6.59	6.83	167	173	80.5
SK7 Sloped channel - 39.37" (1m)	90078	94096	5.83	6.06	148	154	6.83	7.06	173	179	81.5
SK8 Sloped channel - 39.37" (1m)	90080	94102	6.06	6.30	154	160	7.06	7.30	179	185	82.5
SK9 Sloped channel - 39.37" (1m)	90091	94114	6.30	6.54	160	166	7.30	7.54	185	191	83.6
SK10 Sloped channel - 39.37" (1m)	90106	94123	6.54	6.77	166	172	7.54	7.77	191	197	84.6
SK010 Neutral channel - 39.37" (1m)	90112	94130	6.77	6.77	172	172	7.77	7.77	197	197	85.6
SK0103 Neutral channel - 19.69" (0.5m)	90128	94145	6.77	6.77	172	172	7.77	7.77	197	197	44.2
SK11 Sloped channel - 39.37" (1m)	90139	94156	6.77	7.01	172	178	7.77	8.01	197	203	86.6
SK12 Sloped channel - 39.37" (1m)	90141	94169	7.01	7.24	178	184	8.01	8.24	203	209	87.5
SK13 Sloped channel - 39.37" (1m)	90154	94178	7.24	7.48	184	190	8.24	8.48	209	215	88.5
SK14 Sloped channel - 39.37" (1m)	90166	94184	7.48	7.72	190	196	8.48	8.72	215	221	89.5
SK15 Sloped channel - 39.37" (1m)	90173	94191	7.72	7.95	196	202	8.72	8.95	221	227	90.4
SK16 Sloped channel - 39.37" (1m)	90181	94206	7.95	8.19	202	208	8.95	9.19	227	233	91.4
SK17 Sloped channel - 39.37" (1m)	90198	94210	8.19	8.43	208	214	9.19	9.43	233	239	92.3
SK18 Sloped channel - 39.37" (1m)	90209	94222	8.43	8.66	214	220	9.43	9.66	239	245	93.3
SK19 Sloped channel - 39.37" (1m)	90210	94237	8.66	8.90	220	226	9.66	9.90	245	251	94.3
SK20 Sloped channel - 39.37" (1m)	90221	94245	8.90	9.13	226	232	9.90	10.13	251	257	95.2
SK020 Neutral channel - 39.37" (1m)	90235	94259	9.13	9.13	232	232	10.13	10.13	257	257	96.2
SK0203 Neutral channel - 19.69" (0.5m)	90815	94263	9.13	9.13	232	232	10.13	10.13	257	257	49.7
SK21 Sloped channel - 39.37" (1m)	90249	94271	9.13	9.37	232	238	10.13	10.37	257	263	97.2
SK22 Sloped channel - 39.37" (1m)	90255	94287	9.37	9.61	238	244	10.37	10.61	263	269	98.1
SK23 Sloped channel - 39.37" (1m)	90263	94296	9.61	9.84	244	250	10.61	10.84	269	275	99.1
SK24 Sloped channel - 39.37" (1m)	90274	94304	9.84	10.08	250	256	10.84	11.08	275	281	100.1
SK25 Sloped channel - 39.37" (1m)	90282	94318	10.08	10.31	256	262	11.08	11.31	281	287	101.0
SK26 Sloped channel - 39.37" (1m)	90291	94322	10.31	10.55	262	268	11.31	11.55	287	293	102.0
SK27 Sloped channel - 39.37" (1m)	90306	94330	10.55	10.79	268	274	11.55	11.79	293	299	103.0
SK28 Sloped channel - 39.37" (1m)	90318	94349	10.79	11.02	274	280	11.79	12.02	299	305	103.9
SK29 Sloped channel - 39.37" (1m)	90321	94351	11.02	11.26	280	286	12.02	12.26	305	311	104.9
SK30 Sloped channel - 39.37" (1m)	90337	94362	11.26	11.50	286	292	12.26	12.50	311	317	105.8
SK030 Neutral channel - 39.37" (1m)	90340	94376	11.50	11.50	292	292	12.50	12.50	317	317	106.8
SK0303 Neutral channel - 19.69" (0.5m)	90826	94388	11.50	11.50	292	292	12.50	12.50	317	317	55.0
In-line Catch Basins - For information on Series 600 catch basins see page 52											
SK900 In-line catch basin - 19.69" (0.5m)	90392	94381	24.00	24.00	610	610	25.00	25.00	635	635	102.4
Series 900 Plastic trash bucket	01498	01498	-	-	-	-	9.33	9.33	237	237	1.1
Foul air trap (See page 54)	90854	90854	-	-	-	-	-	-	-	-	1.2
Accessories											
Universal plastic closing/4" inlet/outlet cap	95063	95063	-	-	-	-	12.50	12.50	317	317	0.4
SK204-6 6" Inlet cap	93903	93903	-	9.13	-	232	-	10.13	-	257	4.8
SK208-6 6" Outlet cap	97048	97048	9.13	-	232	-	10.13	-	257	-	4.8
SK304-6 6" Inlet cap	93905	93905	-	11.50	-	292	-	12.50	-	317	6.1
SK308-6 6" Outlet cap	97052	97052	11.50	-	292	-	12.50	-	317	-	6.1
Type 824 6" Sch. 40 oval to round outlet	95140	95140	-	-	-	-	-	-	-	-	1.1
QuickLok/PowerLok grate removal tool	01318	01318	-	-	-	-	-	-	-	-	0.3

Notes:

1. PowerDrain is sold complete, i.e., channel with grate. Choose appropriate part number from table depending on grate required
2. ADA grate - Add 2.6lbs to calculate weight for one meter channels and 1.3lbs to half meter channels and SK900 catch basin
3. Preformed 4" dia. & 6" flumed drill-out outlet cast on underside of every channel
4. Closing cap can be cut down to suit all channels

System layout



PowerLok - boltless locking system



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

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

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

Note: To pull S300K ADA grates free, insert PowerLok tool into 'V' area of clip and pull upwards. Slotted grates, PowerLok tool will fit between grate slots. Subsequent grates can be pulled up by hand.



ADA IRON

DIN 19580 Class E - 135,000lbs - 2,323psi Medium industrial



Description	Length ins (meters)	Weight lbs	Slot size (ins)	Intake area sq. ins.	Locking Type
Ductile iron*	19.69" (0.5m)	60.0	0.76 x 0.32	63.2	PowerLok

* Ductile iron to ASTM A 536-84 - grade 65-45-12



SLOTTED IRON

DIN 19580 Class F - 200,000lbs - 3,485psi Heavy duty



Description	Length ins (meters)	Weight lbs	Slot size (ins)	Intake area sq. ins.	Locking Type
Ductile iron*	19.69" (0.5m)	53.9	4.51 x 0.71 avg.	68.3	PowerLok

* Ductile iron to ASTM A 536-84 - grade 65-45-12

Closing/6", 8" or 10" outlet cap

Fits all channels, manufactured from black polypropylene to complement edge rail. Guides aid cutting to correct height. 6", 8" and 10" bell end prevents 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.



SK3-900 In-line catch basin

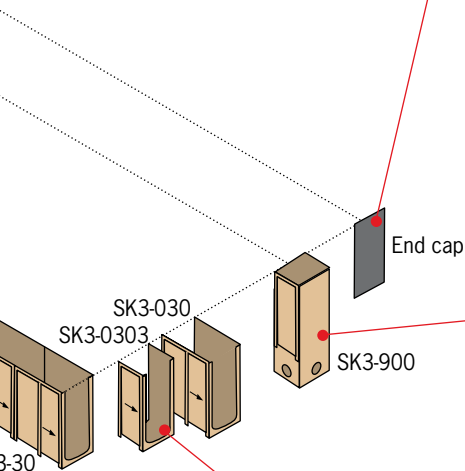
A two part in-line catch basin with choice of deep or short base. Bases have 4", 6" and 8" drill-outs for pipe connections. Supplied complete with grate. Available with plastic trash bucket or filter bag (filter bag will reduce flow). Riser unit fits between top and bottom unit. All drill-outs to receive channels are female.

Any channel can be connected into the catch basin by removing the end wall to the correct height. Drill-outs guide connection to channels 01, 010, 020, and 030.

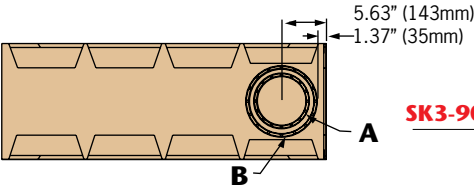
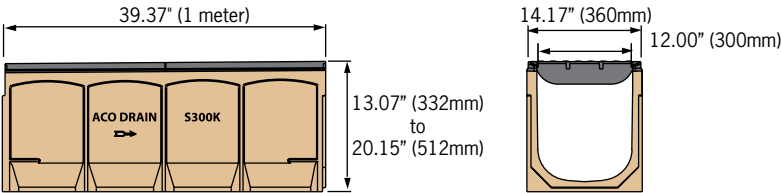


Half meter channel

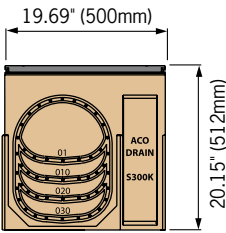
Neutral depth channel to supplement meter channels. A side knockout and profiling enable a side junction to be created. Supplied complete with grate.



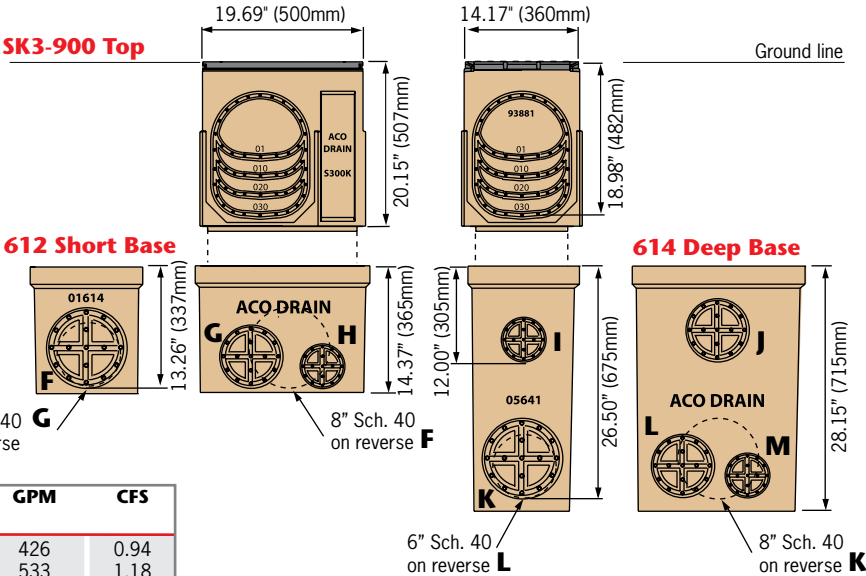
One meter channel



Half meter channel



In-line catch basin - optional short or deep base

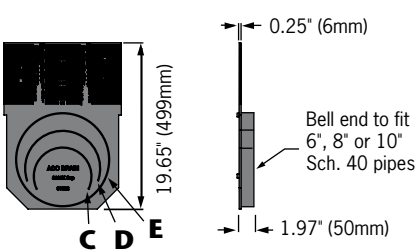


Outlet flow rates

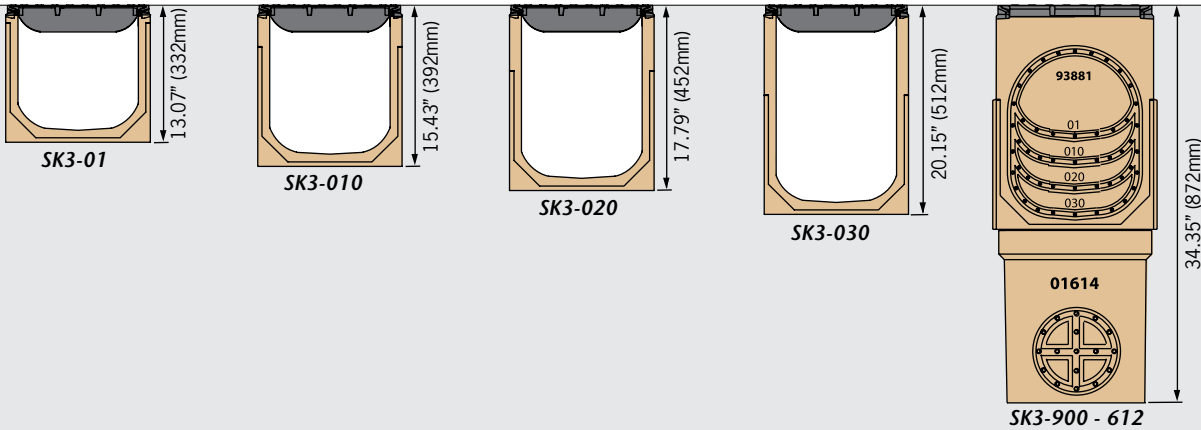
Outlet	Product	Outlet Size (Sch 40)	Invert Depth	GPM	CFS
A	SK3-01 channel	6" round	11.89	426	0.94
A	SK3-030 channel	6" round	18.98	533	1.18
B	SK3-01 channel	8" round	11.89	758	1.68
B	SK3-030 channel	8" round	18.98	948	2.11
C	SK3-01 channel	6" round	11.89	370	0.82
C	SK3-030 channel	6" round	18.98	489	1.08
D	SK3-5 channel	8" round	13.07	656	1.46
D	SK3-030 channel	8" round	18.98	842	1.87
E	SK3-13 channel	10" round	14.96	1073	2.39
E	SK3-030 channel	10" round	18.98	1271	2.83
F	SK3-900 - 612*	8" round	33.25	1177	2.62
G	SK3-900 - 612*	6" round	33.25	673	1.55
H	SK3-900 - 612*	4" round	33.25	304	0.67
I	SK3-900 - 614*	4" round	32.00	298	0.66
J	SK3-900 - 614*	6" round	32.00	560	1.25
K	SK3-900 - 614*	8" round	46.40	1417	3.16
L	SK3-900 - 614*	6" round	46.40	810	1.80
M	SK3-900 - 614*	4" round	46.40	360	0.80

Note: These are the pipe flow rates at the specified outlet, **NOT** channel flow rates.
* SK3-900 flow rates without trash bucket - using trash bucket or filter bag reduces flow
Using Type 611 riser will affect flow rates

Closing/outlet end cap



Ground line



S300K Parts list

Description	Part		Invert Depth				Overall Depth				Weight ²
	No		inches		mm		inches		mm		
	Slotted	ADA ²	Female	Male	Female	Male	Female	Male	Female	Male	lbs
SK3-01 Neutral channel - 39.37" (1m)	93495	93496	11.89	11.89	302	302	13.07	13.07	332	332	233.0
SK3-1 Sloped channel - 39.37" (1m)	93502	93503	11.89	12.13	302	308	13.07	13.30	332	338	234.9
SK3-2 Sloped channel - 39.37" (1m)	93511	93512	12.13	12.36	308	314	13.30	13.54	338	344	236.7
SK3-3 Sloped channel - 39.37" (1m)	93523	93524	12.36	12.60	314	320	13.54	13.78	344	350	238.6
SK3-4 Sloped channel - 39.37" (1m)	93534	93535	12.60	12.83	320	326	13.78	14.01	350	356	240.4
SK3-5 Sloped channel - 39.37" (1m)	93546	93547	12.83	13.07	326	332	14.01	14.25	356	362	242.3
SK3-6 Sloped channel - 39.37" (1m)	93552	93553	13.07	13.31	332	338	14.25	14.48	362	368	244.1
SK3-7 Sloped channel - 39.37" (1m)	93563	93564	13.31	13.54	338	344	14.48	14.72	368	374	246.0
SK3-8 Sloped channel - 39.37" (1m)	93578	93579	13.54	13.78	344	350	14.72	14.96	374	380	247.8
SK3-9 Sloped channel - 39.37" (1m)	93585	93586	13.78	14.02	350	356	14.96	15.19	380	386	249.7
SK3-10 Sloped channel - 39.37" (1m)	93597	93598	14.02	14.25	356	362	15.19	15.43	386	392	251.5
SK3-010 Neutral channel - 39.37" (1m)	93601	93602	14.25	14.25	362	362	15.43	15.43	392	392	253.4
SK3-11 Sloped channel - 39.37" (1m)	93610	93611	14.25	14.49	362	368	15.43	15.66	392	398	254.6
SK3-12 Sloped channel - 39.37" (1m)	93629	93630	14.49	14.72	368	374	15.66	15.90	398	404	255.9
SK3-13 Sloped channel - 39.37" (1m)	93633	93634	14.72	14.96	374	380	15.90	16.14	404	410	257.1
SK3-14 Sloped channel - 39.37" (1m)	93644	93645	14.96	15.20	380	386	16.14	16.37	410	416	258.3
SK3-15 Sloped channel - 39.37" (1m)	93657	93658	15.20	15.43	386	392	16.37	16.61	416	422	259.6
SK3-16 Sloped channel - 39.37" (1m)	93668	93669	15.43	15.67	392	398	16.61	16.85	422	428	260.8
SK3-17 Sloped channel - 39.37" (1m)	93670	93671	15.67	15.91	398	404	16.85	17.08	428	434	262.1
SK3-18 Sloped channel - 39.37" (1m)	93681	93682	15.91	16.14	404	410	17.08	17.32	434	440	263.3
SK3-19 Sloped channel - 39.37" (1m)	93693	93694	16.14	16.38	410	416	17.32	17.55	440	446	264.5
SK3-20 Sloped channel - 39.37" (1m)	93706	93707	16.38	16.61	416	422	17.55	17.79	446	452	265.8
SK3-020 Neutral channel - 39.37" (1m)	93718	93719	16.61	16.61	422	422	17.79	17.79	452	452	267.0
SK3-21 Sloped channel - 39.37" (1m)	93725	93726	16.61	16.85	422	428	17.79	18.03	452	458	267.8
SK3-22 Sloped channel - 39.37" (1m)	93734	93735	16.85	17.09	428	434	18.03	18.26	458	464	268.5
SK3-23 Sloped channel - 39.37" (1m)	93741	93742	17.09	17.32	434	440	18.26	18.50	464	470	269.3
SK3-24 Sloped channel - 39.37" (1m)	93750	93751	17.32	17.56	440	446	18.50	18.74	470	476	270.1
SK3-25 Sloped channel - 39.37" (1m)	93766	93767	17.56	17.80	446	452	18.74	18.97	476	482	270.8
SK3-26 Sloped channel - 39.37" (1m)	93779	93780	17.80	18.03	452	458	18.97	19.21	482	488	271.6
SK3-27 Sloped channel - 39.37" (1m)	93782	93783	18.03	18.27	458	464	19.21	19.44	488	494	272.3
SK3-28 Sloped channel - 39.37" (1m)	93793	93794	18.27	18.50	464	470	19.44	19.68	494	500	273.1
SK3-29 Sloped channel - 39.37" (1m)	93805	93806	18.50	18.74	470	476	19.68	19.92	500	506	273.9
SK3-30 Sloped channel - 39.37" (1m)	93814	93815	18.74	18.98	476	482	19.92	20.15	506	512	274.6
SK3-030 Neutral channel - 39.37" (1m)	93820	93821	18.98	18.98	482	482	20.15	20.15	512	512	275.4
SK3-0303 Neutral channel - 19.69" (0.5m)	93837	93838	18.98	18.98	482	482	20.15	20.15	512	512	158.4
In-line Catch Basins											
SK3-900 Catch basin top - 19.69" (0.5m)	93881	93883	-	-	-	-	20.15	20.15	512	512	152.8
Type 611 Catch basin riser section	91110	91110	-	-	-	-	11.81	11.81	300	300	48.8
Type 612 Catch basin base - short	01614	01614	-	-	-	-	14.37	14.37	365	365	63.0
Type 614 Catch basin base - deep	05641	05641	-	-	-	-	28.15	28.15	715	715	109.6
600 Series plastic trash bucket - short	98653	98653	-	-	-	-	14.46	14.46	367	367	2.8
600 Series plastic trash bucket - deep	98665	98665	-	-	-	-	23.34	23.34	593	593	4.8
Type 600 Filter bag (fits both short and deep)	98487	98487	-	-	-	-	8.00	8.00	203	203	8.0
Accessories											
Closing/outlet end cap	98132	98132	-	-	-	-	20.15	20.15	512	512	3.4
QuickLok/PowerLok grate removal tool	01318	01318	-	-	-	-	-	-	-	-	0.3

Notes:

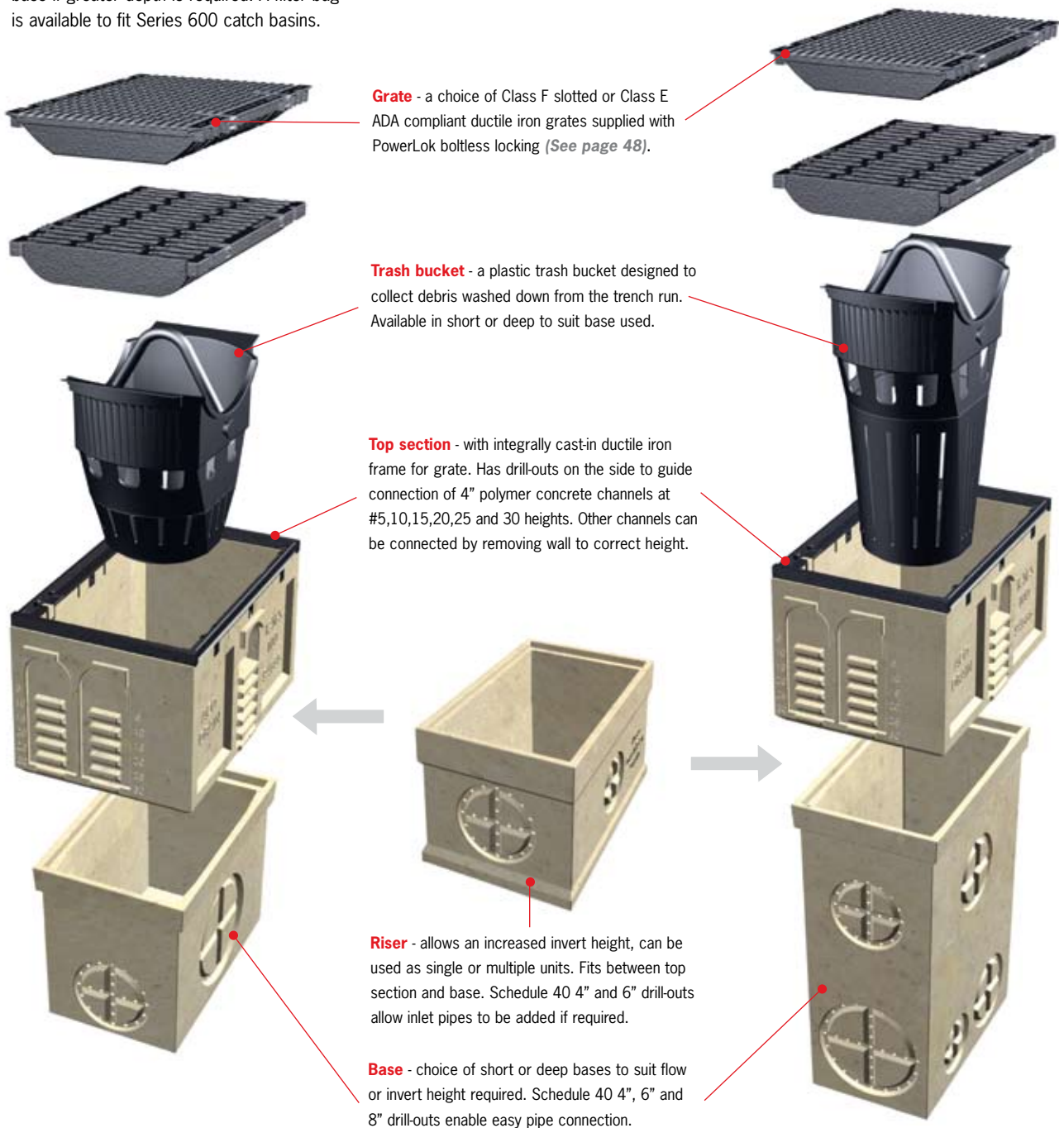
1. PowerDrain is sold complete i.e., channel with grate. Choose appropriate part number from table depending on grate required
2. ADA grate- Add 12.2lbs to calculate weight for one meter channels and 6.1lbs to half meter channel and catch basin top
3. Preformed 6" dia. & 8" round drill-outs cast on underside of every channel (except SK3-0303)
4. Closing cap can be cut down to suit all channels
5. Filter bag replaces use of trash buckets
6. SK3-900 top should be used with appropriate base
7. If foul air trap required, please contact ACO



Polymer concrete catch basins

Series 600 multi-part polymer concrete catch basins are used with KlassikDrain, PowerDrain (S100K) and ChemDrain. The Type 610 top is used with either a short or deep base.

Risers can be inserted between top and base if greater depth is required. A filter bag is available to fit Series 600 catch basins.

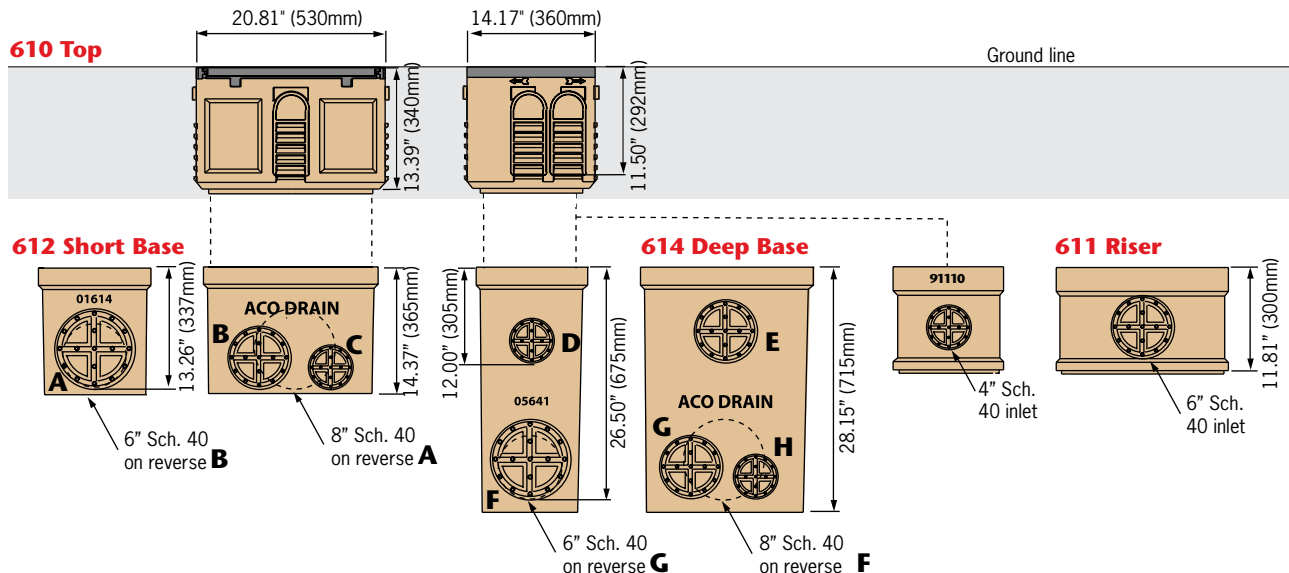


600 series catch basins

Description	Part No		Overall Depth		Weight lbs
	Polyester	Vinyl ester	inches	mm	
Catch basin assemblies					
Type 620 Catch basin assembly (short) - top, grate, short base & trash bucket	94625	94641	27.75	705	218.6
Type 620ADA Catch basin assembly (short) - top, grate, short base & trash bucket	94626	94643	27.75	705	224.7
Type 630 Catch basin assembly (deep) - top, grate, deep base & trash bucket	94637	94658	41.55	1055	267.2
Type 630ADA Catch basin assembly (deep) - top, grate, deep base & trash bucket	94638	94660	41.55	1055	273.3
Catch basin components					
Type 610 Top section with slotted grate	94666	94674	13.39	340	152.8
Type 610 Top section with ADA grate	94663	94676	13.39	340	158.9
Type 611 Catch basin riser section	91110	91113	11.81	300	48.8
Type 612 Catch basin base - short	01614	06738	14.37	365	63.0
Type 614 Catch basin base - deep	05641	05969	28.15	715	109.6
Series 600 Plastic trash bucket - short	98653	98653	14.46	367	2.8
Series 600 Plastic trash bucket - deep	98665	98665	23.34	593	4.8
Series 600 Filter bag (fits both short and deep bases)	98487	98487	8.00	203	8.0
QuickLok/PowerLok grate removal tool	01318	01318	-	-	0.3

Notes:

1. Filter bag replaces use of trash buckets
2. If foul air trap required please contact ACO
3. Cannot be used with S300K - See page 50 for S300K In-line catch basin



Outlet flow rates

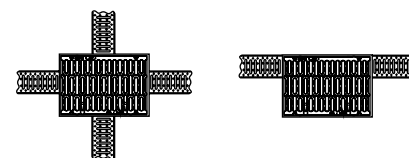
Outlet	Product	Outlet Size (Sch 40)	Invert Depth	GPM	CFS
A	620 basin*	8" round	26.65	1036	2.31
B	620 basin*	6" round	26.65	560	1.25
C	620 basin*	4" round	26.65	270	0.60
D	630 basin*	4" round	25.40	263	0.59
E	630 basin*	6" round	25.40	560	1.25
F	630 basin*	8" round	39.89	1304	2.91
G	630 basin*	6" round	39.89	720	1.61
H	630 basin*	4" round	39.89	310	0.69

Note: These are the pipe flow rates at the specified outlet, **NOT** channel flow rates.

* SK3-900 flow rates without trash bucket - using trash bucket or filter bag reduces flow
Using Type 611 riser will affect flow rates.

Catch basin - channel connection

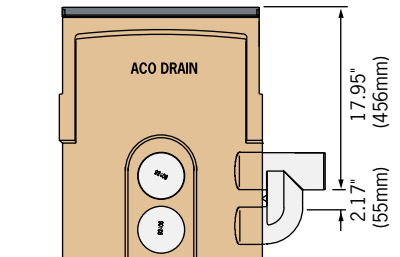
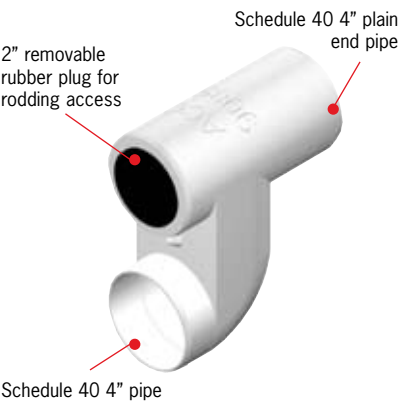
Channels can be connected to catch basin on all four sides in a variety of different configurations.



Foul air trap

Fits:
KlassikDrain - K900 & KS900 catch basins
PowerDrain - SK900 catch basin
ChemDrain - CK900 & CSK900 catch basins

A polypropylene foul air trap that fits into front or side of in-line catch basins. Rubber 'O' rings seal the trap into the catch basin (liquid soap is recommended to help ease trap into position). A coupler is required to connect Schedule 40 4" plain end pipe to underground pipe system.



Removable white plugs allow foul air trap to be fitted to front or side of catch basin.

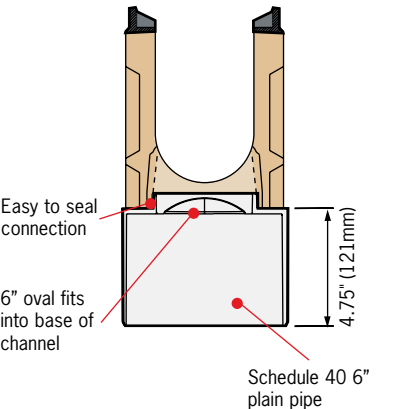


Inside catch basin - removable black rubber trap plug at top, 4" pipe outlet at bottom.

Oval to round pipe connection

Fits:
KlassikDrain - K100S & KS100S
PowerDrain - S100K
ChemDrain - C100, CK100S & CS100K

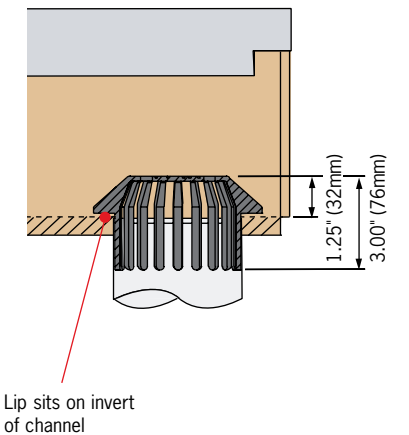
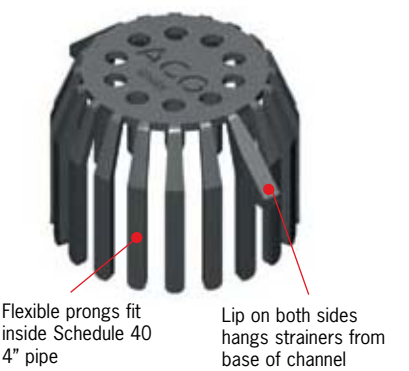
Oval to round polypropylene adapter for bottom drill-out on 4" polymer concrete channels. Schedule 40 6" plain end can be solvent welded to underground pipe system. Seal to channel using appropriate flexible sealant.



Vertical outlet strainer

Fits:
KlassikDrain - K100S & KS100S
PowerDrain - S100K
ChemDrain - C100, CK100S, CS100K, CH80, CH100, CH80K, CH100K & CH100SK
SlabDrain - H80, H100, H80K, H100K & H100SK
FlowDrain - FG100 & FG200

Strainer for 4" vertical outlets, prevents large particles of debris flowing into underground pipe system and causing blockages.



Accessories

Description	Part No	Weight lbs
Type 824 6" Schedule 40 flumed outlet	95140	1.1
Foul air trap	90854	1.3
Strainer for 4" vertical outlets	93488	0.2
Channel clamp	06667	2.5
Channel hanger	97475	0.6
PowerLok hanger	90401	2.7

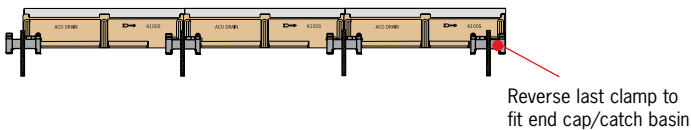
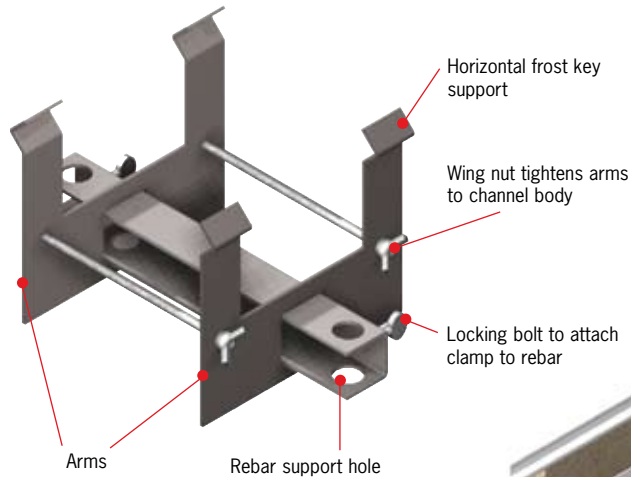
Installation devices

Channel clamp

Fits:

KlassikDrain - K100S & KS100S
PowerDrain - S100K
ChemDrain - C100, CK100S & CS100K

The channel clamp sits at every channel joint along the run. The clamp fits around the profiled end detail and holds the joint tight. Rebar inserted at the sides is used to position channels. The clamp keeps the system level during concrete pour. One clamp is required for every channel joint.



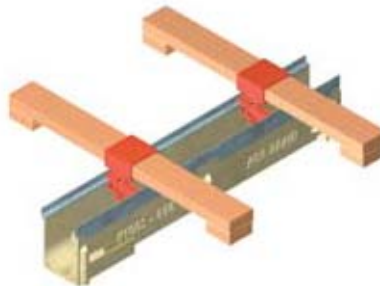
Clamp assembled across two channels

Channel hanger

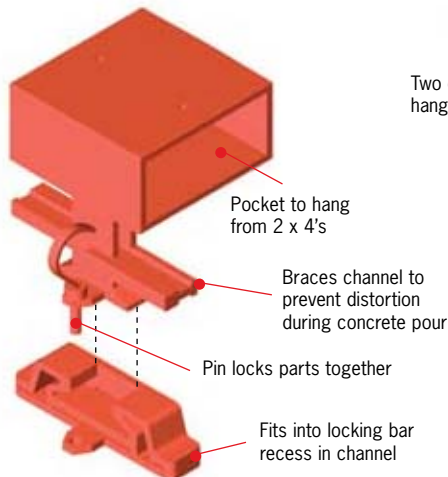
Fits:

KlassikDrain - K100S & KS100S
ChemDrain - C100, CK100S, CH80, CH100, CH80K & CH100K
SlabDrain - H80, H100, H80K, H100K

The two-part channel hanger fits inside the locking bar recess and provides a quick and easy way to hang the system from 2 x 4's. The hanger also braces the channel to prevent closing during concrete pour.



Two channel hangers per meter required. Channel hangers can be reused.



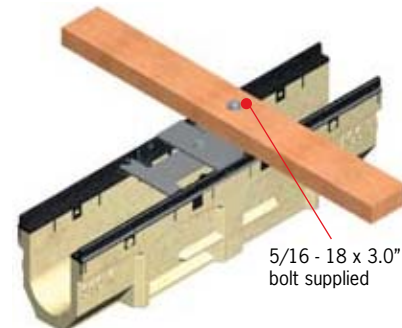
PowerLok hanger

Fits:

PowerDrain - S100K
ChemDrain - CS100K, CH100SK
SlabDrain - H100SK

The two-part PowerLok hanger fits under the anti-shunt lugs on the rail. The hanger fits across the joint of two channels and assists in alignment. The hanger also braces the channel to prevent closing during concrete pour.

One PowerLok hanger is required for every channel joint. PowerLok hangers can be reused.



To hang S300K, use M10 bolts and 2 x 4's across channel and bolt to M10 thread in widgets in the ductile iron rail (8 per meter).