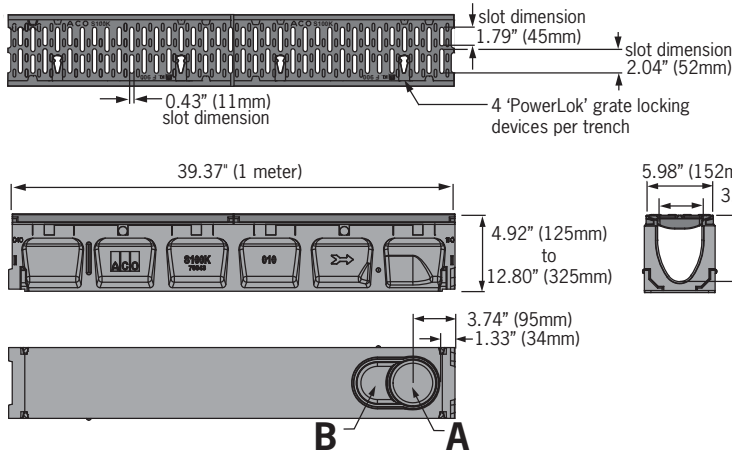


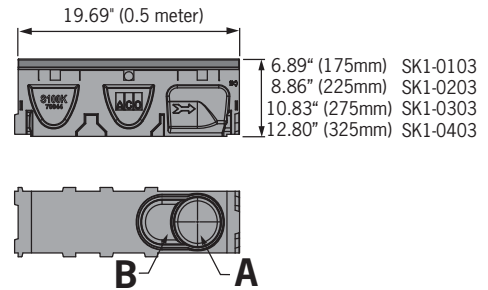
# ACO DRAIN

## PowerDrain - S100K iron edged channel system with slotted grate

### One meter channel

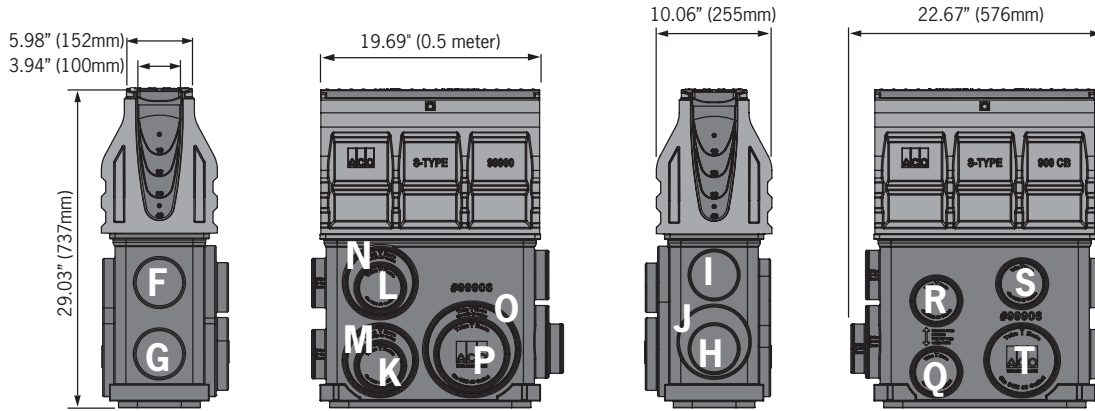


### Half meter channel



Knock-outs included on every 5th channel

### Type 901D In-line catch basin



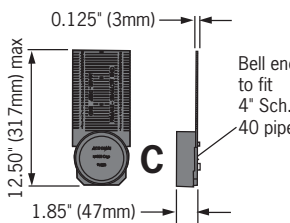
Total capacity = 10.49 gallons.

### Outlet flow rates

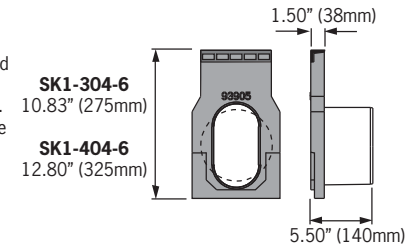
Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - SK1-00	4" round	3.94"	108	0.24
A	Bottom outlet - SK1-40	4" round	11.81"	187	0.42
B	Bottom outlet - SK1-00	6" oval	3.94"	177	0.39
B	Bottom outlet - SK1-40	6" oval	11.81"	306	0.68
C	End outlet - SK1-20	4" round	7.87"	132	0.29
C	End outlet - SK1-40	4" round	11.81"	171	0.38
D	SK1-308-6 6" outlet cap	6" oval	9.84"	233	0.52
E	SK1-408-6 6" outlet cap	6" oval	11.81"	264	0.59
F	Type SK1-901D	4" round	19.87"	230	0.51
G	Type SK1-901D	4" round	26.37"	268	0.60
H	Type SK1-901D	4" round	25.87"	266	0.59
I	Type SK1-901D	4" round	19.16"	226	0.50
J	Type SK1-901D	6" round	26.29"	593	1.32
K	Type SK1-901D	4" round	27.22"	272	0.61
L	Type SK1-901D	4" round	20.11"	231	0.51
M	Type SK1-901D	6" round	27.79"	611	1.36
N	Type SK1-901D	6" round	20.65"	514	1.15
O	Type SK1-901D	8" round	27.79"	1065	2.37
P	Type SK1-901D	6" round	27.22"	601	1.34
Q	Type SK1-901D	4" round	27.79"	276	0.62
R	Type SK1-901D	4" round	21.30"	239	0.53
S	Type SK1-901D	4" round	19.73"	228	0.51
T	Type SK1-901D	6" round	27.79"	610	1.36

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates. Catch basin flow rates are without trash bucket - using trash bucket reduces flow.

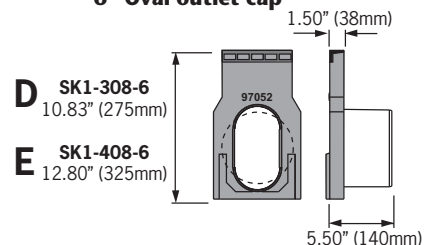
### End Caps



### 6" Oval inlet cap



### 6" Oval outlet cap



# ACO DRAIN

## PowerDrain - S100K iron edged channel system with slotted grate



ACO Specification Information

Description	Part No.	Invert Inches <sup>2</sup>	mm <sup>2</sup>	Weight lbs.
<b>SK1-00 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70041</b>	<b>3.94</b>	<b>100</b>	<b>74.1</b>
SK1-1 Sloped channel - 39.37" (1m)	<b>70001</b>	<b>4.13</b>	<b>105</b>	<b>74.1</b>
SK1-2 Sloped channel - 39.37" (1m)	<b>70002</b>	4.33	110	75.1
SK1-3 Sloped channel - 39.37" (1m)	<b>70003</b>	4.53	115	76.1
SK1-4 Sloped channel - 39.37" (1m)	<b>70004</b>	4.72	120	77.1
SK1-5 Sloped channel - 39.37" (1m) <sup>D</sup>	<b>70005</b>	4.92	125	78.1
SK1-6 Sloped channel - 39.37" (1m)	<b>70006</b>	5.12	130	79.1
SK1-7 Sloped channel - 39.37" (1m)	<b>70007</b>	5.31	135	80.1
SK1-8 Sloped channel - 39.37" (1m)	<b>70008</b>	5.51	140	81.1
SK1-9 Sloped channel - 39.37" (1m)	<b>70009</b>	5.71	145	82.1
SK1-10 Sloped channel - 39.37" (1m) <sup>D</sup>	<b>70010</b>	5.91	150	83.1
<b>SK1-010 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70043</b>	<b>5.91</b>	<b>150</b>	<b>83.1</b>
<b>SK1-0103 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>70044</b>	<b>5.91</b>	<b>150</b>	<b>42.4</b>
SK1-11 Sloped channel - 39.37" (1m)	<b>70011</b>	6.10	155	84.1
SK1-12 Sloped channel - 39.37" (1m)	<b>70012</b>	6.30	160	85.1
SK1-13 Sloped channel - 39.37" (1m)	<b>70013</b>	6.50	165	86.1
SK1-14 Sloped channel - 39.37" (1m)	<b>70014</b>	6.69	170	87.1
SK1-15 Sloped channel - 39.37" (1m) <sup>D</sup>	<b>70015</b>	6.89	175	88.1
SK1-16 Sloped channel - 39.37" (1m)	<b>70016</b>	7.09	180	89.1
SK1-17 Sloped channel - 39.37" (1m)	<b>70017</b>	7.28	185	90.1
SK1-18 Sloped channel - 39.37" (1m)	<b>70018</b>	7.48	190	91.1
SK1-19 Sloped channel - 39.37" (1m)	<b>70019</b>	7.68	195	92.1
SK1-20 Sloped channel - 39.37" (1m) <sup>D</sup>	<b>70020</b>	7.87	200	93.1
<b>SK1-020 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70045</b>	<b>7.87</b>	<b>200</b>	<b>93.1</b>
<b>SK1-0203 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>70046</b>	<b>7.87</b>	<b>200</b>	<b>46.9</b>
SK1-21 Sloped channel - 39.37" (1m)	<b>70021</b>	8.07	205	94.1
SK1-22 Sloped channel - 39.37" (1m)	<b>70022</b>	8.27	210	95.1
SK1-23 Sloped channel - 39.37" (1m)	<b>70023</b>	8.46	215	96.0
SK1-24 Sloped channel - 39.37" (1m)	<b>70024</b>	8.66	220	97.0
SK1-25 Sloped channel - 39.37" (1m) <sup>D</sup>	<b>70025</b>	8.86	225	98.0
SK1-26 Sloped channel - 39.37" (1m)	<b>70026</b>	9.06	230	99.0
SK1-27 Sloped channel - 39.37" (1m)	<b>70027</b>	9.25	235	100.0

Description	Part No.	Invert Inches <sup>2</sup>	mm <sup>2</sup>	Weight lbs.
SK1-28 Sloped channel - 39.37" (1m)	<b>70028</b>	9.45	240	101.0
SK1-29 Sloped channel - 39.37" (1m)	<b>70029</b>	9.65	245	102.0
SK1-30 Sloped channel - 39.37" (1m) <sup>D</sup>	<b>70030</b>	9.84	250	103.0
<b>SK1-030 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70047</b>	<b>9.84</b>	<b>250</b>	<b>103.0</b>
<b>SK1-0303 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>70048</b>	<b>9.84</b>	<b>250</b>	<b>51.4</b>
SK1-31 Sloped channel - 39.37" (1m)	<b>70031</b>	10.04	255	104.0
SK1-32 Sloped channel - 39.37" (1m)	<b>70032</b>	10.24	260	105.0
SK1-33 Sloped channel - 39.37" (1m)	<b>70033</b>	10.43	265	106.0
SK1-34 Sloped channel - 39.37" (1m)	<b>70034</b>	10.63	270	107.0
SK1-35 Sloped channel - 39.37" (1m) <sup>D</sup>	<b>70035</b>	10.83	275	108.0
SK1-36 Sloped channel - 39.37" (1m)	<b>70036</b>	11.02	280	109.0
SK1-37 Sloped channel - 39.37" (1m)	<b>70037</b>	11.22	285	110.0
SK1-38 Sloped channel - 39.37" (1m)	<b>70038</b>	11.42	290	111.0
SK1-39 Sloped channel - 39.37" (1m)	<b>70039</b>	11.61	295	112.0
SK1-40 Sloped channel - 39.37" (1m) <sup>D</sup>	<b>70040</b>	11.81	300	113.0
<b>SK1-040 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70049</b>	<b>11.81</b>	<b>300</b>	<b>113.0</b>
<b>SK1-0403 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>70050</b>	<b>11.81</b>	<b>300</b>	<b>56.0</b>
SK1-901D In-line catch basin - 19.69" (0.5m) <sup>D</sup>	<b>94610</b>	28.23	717	99.0
SK1-621D catch basin - 19.69" (0.5m) <sup>D</sup>	<b>94573</b>	28.86	733	88.7
SK1-631D catch basin - 19.69" (0.5m) <sup>D</sup>	<b>94583</b>	40.86	1038	98.7
Series 600 optional riser	<b>99902</b>	-	-	10.0
Foul air trap - fits both 900 & 600 basins	<b>90854</b>	-	-	1.2
SK1-304-6 6" Inlet Cap	<b>96861</b>	9.84	250	6.2
SK1-308-6 6" Outlet Cap	<b>96862</b>	9.84	250	6.0
SK1-404-6 6" Inlet Cap	<b>96863</b>	11.81	300	7.2
SK1-408-6 6" Outlet Cap	<b>96864</b>	11.81	300	7.0
SK1-Universal end cap	<b>96824</b>	11.81	300	0.4
Debris strainer for 4" bottom knockout	<b>93488</b>	-	-	0.2
4" Oval to 6" round outlet adaptor	<b>95140</b>	-	-	1.1
4" Installation device	<b>97477</b>	-	-	2.8
Grate removal tool	<b>01318</b>	-	-	0.3

**Notes:**

- This channel offers bottom knockout feature; 4" round/6" oval.
- Inverts shown are male end; for female invert depth subtract 5mm (=0.2") from male invert (except neutral channels where it will be same as male invert). To calculate overall channel depth add 25.4mm (=1") to invert depth.
- Catch basin assembly includes polymer concrete top, PowerLok grate, trash bucket and plastic base.
- Catch basin assembly includes polymer concrete top, PowerLok grate, deep trash bucket, plastic riser and plastic base.

Specifications		Water absorption	0.07%	the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 1/4" (6mm) thick.
<b>General</b>		Frost proof	YES	
The surface drainage system shall be ACO Drain PowerDrain S100K complete with slotted gratings secured with 'PowerLok' locking as manufactured by ACO Polymer Products, Inc. or equal approved.		Salt proof	YES	
<b>Materials</b>		Dilute acid and alkali resistant	YES	
The trench system bodies shall be manufactured from polyester polymer concrete with minimum properties as follows:		The nominal clear opening shall be 4" (100mm) with overall width of 6.30" (160mm). Pre-cast units shall be manufactured with either an invert slope of 0.5% or with neutral invert and have a wall thickness of at least 0.67" (16mm). Each unit will feature a partial radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring keys on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. The ductile iron edge rail will be integrally cast in by		<b>Grates</b> Grates are manufactured from slotted ductile iron. Ductile iron to ASTM 536-84 - Grade 65-45-12. After removal of gratings there shall be uninterrupted access to the trench to aid maintenance. Water intake area per meter channel unit shall be 46 in <sup>2</sup> (296.77 cm <sup>2</sup> ).
Compressive strength:	14,000 psi			<b>Installation</b> The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.
Flexural strength:	4,000 psi			

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