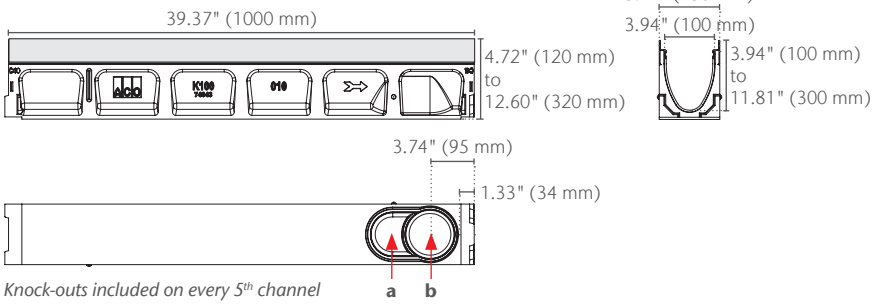
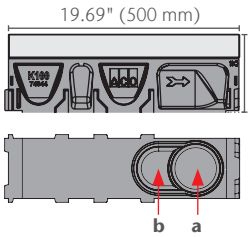
K100 Galvanized Steel Edge Rail Channel System

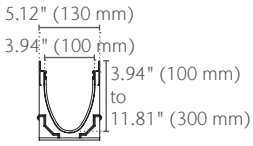
One Meter Channel



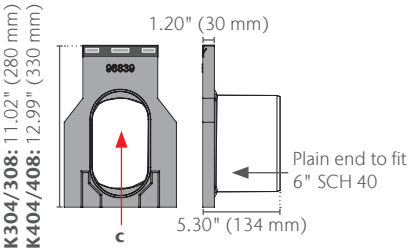
Knock-outs included on every 5th channel

Half Meter Channel

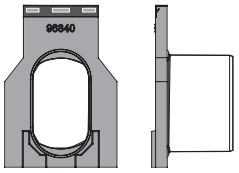




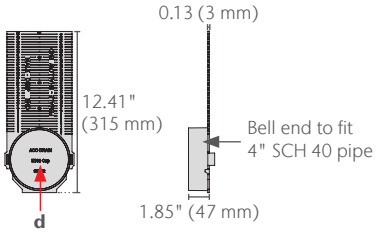
6" Oval Inlet Cap



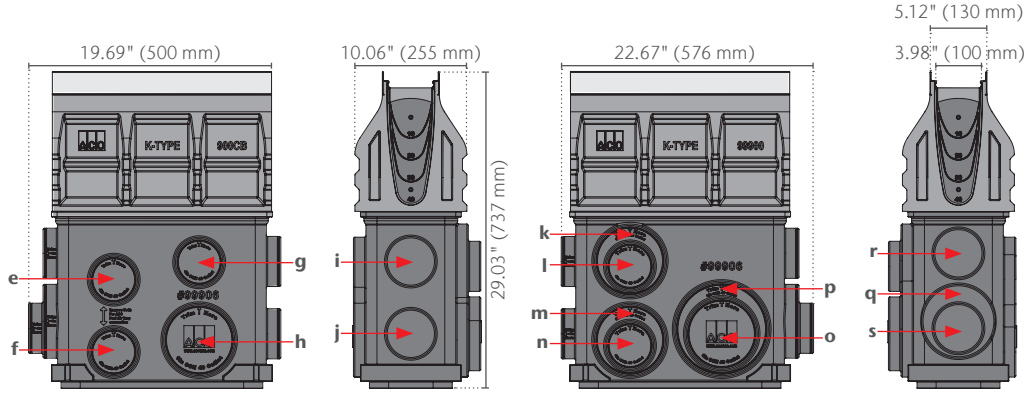
6" Oval Outlet Cap



End Cap



Type K901G In-line Catch Basin



Total capacity = 10.49 gallons

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K100 Galvanized Steel Edge Rail Channel System

Specification Summary

General

The surface drainage system shall be ACO Drain K100 complete with gratings secured with QuickLok locking as manufactured by ACO, Inc. or approved equal.

Grates

Grates shall be specified. See separate ACO Spec Info grate sheets for details. After removal of grates and 'QuickLok' bar there shall be uninterrupted access to the trench to aid maintenance.

Installation

The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

EN1433 Load Class E
134,885 lbs – 2,785 psi

Materials

The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:

- Compressive strength: 14,000 psi
- Flexural strength: 4,000 psi
- Water absorption 0.07%
- Frost-proof
- Salt-proof
- Dilute acid and alkali resistant

The nominal clear opening shall be 4" (100 mm) with overall width of 5.12" (130 mm). 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 0.50" (13 mm). 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 galvanized steel edge rail will be integrally cast in by the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 3/32" (2.5 mm) thick.

K100 Galvanized Steel Edge Rail Channel System

Product	Part No.	Invert[2] in (mm)	Weight lbs
K1-00 Neutral Channel - 39.37" (1 m)	**74041**	3.94 (100)	28.1
K1-1 Sloped Channel - 39.37" (1 m)	**74001**	4.13 (105)	28.1
K1-2 Sloped Channel - 39.37" (1 m)	**74002**	4.33 (110)	28.9
K1-3 Sloped Channel - 39.37" (1 m)	**74003**	4.53 (115)	29.7
K1-4 Sloped Channel - 39.37" (1 m)	**74004**	4.72 (120)	30.5
K1-5 Sloped Channel - 39.37" (1 m)[1]	**74005**	4.92 (125)	31.3
K1-6 Sloped Channel - 39.37" (1 m)	**74006**	5.12 (130)	32.1
K1-7 Sloped Channel - 39.37" (1 m)	**74007**	5.31 (135)	32.9
K1-8 Sloped Channel - 39.37" (1 m)	**74008**	5.51 (140)	33.7
K1-9 Sloped Channel - 39.37" (1 m)	**74009**	5.71 (145)	34.5
K1-10 Sloped Channel - 39.37" (1 m)[1]	**74010**	5.91 (150)	35.3
K1-010 Neutral Channel - 39.37" (1 m)[1]	**74043**	5.91 (150)	35.3
K1-0103 Neutral Channel - 19.69" (0.5 m)[1]	**74044**	5.91 (150)	17.0
K1-11 Sloped Channel - 39.37" (1 m)	**74011**	6.10 (155)	36.1
K1-12 Sloped Channel - 39.37" (1 m)	**74012**	6.30 (160)	36.9
K1-13 Sloped Channel - 39.37" (1 m)	**74013**	6.50 (165)	37.7
K1-14 Sloped Channel - 39.37" (1 m)	**74014**	6.69 (170)	38.5
K1-15 Sloped Channel - 39.37" (1 m)[1]	**74015**	6.89 (175)	39.3
K1-16 Sloped Channel - 39.37" (1 m)	**74016**	7.09 (180)	40.1
K1-17 Sloped Channel - 39.37" (1 m)	**74017**	7.28 (185)	40.9
K1-18 Sloped Channel - 39.37" (1 m)	**74018**	7.48 (190)	41.7
K1-19 Sloped Channel - 39.37" (1 m)	**74019**	7.68 (195)	42.5
K1-20 Sloped Channel - 39.37" (1 m)[1]	**74020**	7.87 (200)	43.4
K1-020 Neutral Channel - 39.37" (1 m)[1]	**74045**	7.87 (200)	43.4
K1-0203 Neutral Channel - 19.69" (0.5 m)[1]	**74046**	7.87 (200)	20.5
K1-21 Sloped Channel - 39.37" (1 m)	**74021**	8.07 (205)	44.2
K1-22 Sloped Channel - 39.37" (1 m)	**74022**	8.27 (210)	45.0
K1-23 Sloped Channel - 39.37" (1 m)	**74023**	8.46 (215)	45.8
K1-24 Sloped C hannel - 39.37" (1 m)	**74024**	8.66 (220)	46.6
K1-25 Sloped Channel - 39.37" (1 m)[1]	**74025**	8.86 (225)	47.4
K1-26 Sloped Channel - 39.37" (1 m)	**74026**	9.06 (230)	48.2
K1-27 Sloped Channel - 39.37" (1 m)	**74027**	9.25 (235)	49.0
K1-28 Sloped Channel - 39.37" (1 m)	**74028**	9.45 (240)	49.8
K1-29 Sloped Channel - 39.37" (1 m)	**74029**	9.65 (245)	50.6
K1-30 Sloped Channel - 39.37" (1 m)[1]	**74030**	9.84 (250)	51.4
K1-030 Neutral Channel - 39.37" (1 m)[1]	**74047**	9.84 (250)	51.4
K1-0303 Neutral Channel - 19.69" (0.5 m)[1]	**74048**	9.84 (250)	24.0
K1-31 Sloped Channel - 39.37" (1 m)	**74031**	10.04 (255)	52.2
K1-32 Sloped Channel - 39.37" (1 m)	**74032**	10.24 (260)	53.0
K1-33 Sloped Channel - 39.37" (1 m)	**74033**	10.43 (265)	53.8
K1-34 Sloped Channel - 39.37" (1 m)	**74034**	10.63 (270)	54.6
K1-35 Sloped Channel - 39.37" (1 m)[1]	**74035**	10.83 (275)	55.4
K1-36 Sloped Channel - 39.37" (1 m)	**74036**	11.02 (280)	56.2
K1-37 Sloped Channel - 39.37" (1 m)	**74037**	11.22 (285)	57.0
K1-38 Sloped Channel - 39.37" (1 m)	**74038**	11.42 (290)	57.9
K1-39 Sloped Channel - 39.37" (1 m)	**74039**	11.61 (295)	58.7
K1-40 Sloped Channel - 39.37" (1 m)[1]	**74040**	11.81 (300)	59.5
K1-040 Neutral Channel - 39.37" (1 m)[1]	**74049**	11.81 (300)	59.5
K1-0403 Neutral Channel - 19.69" (0.5 m)[1]	**74050**	11.81 (300)	27.5
K1-901G In-line Catch Basin - 19.69" (0.5 m)[3]	**94608**	27.63 (702)	52.6
K1-621G Catch Basin - 19.69" (0.5 m)[3]	**94617**	28.86 (733)	55.8
K1-631G Catch Basin - 19.69" (0.5 m)[4]	**94631**	40.86 (1,038)	65.8
K1-Series 600 Optional Plastic Riser	**99902**	-	10.0
Foul Air Trap - Fits Both 900 & 600 Series Basins	**90854**	-	1.2

Product	Part No.	Invert[2] in (mm)	Weight lbs
K1-304-6 6" Inlet Cap	**96839**	9.84 (250)	5.2
K1-308-6 6" Outlet Cap	**96840**	9.84 (250)	5.0
K1-404-6 6" Inlet Cap	**96834**	11.81 (300)	6.0
K1-408-6 6" Outlet Cap	**96836**	11.81 (300)	5.8
Universal End Cap	**96822**	11.81 (300)	0.4
Debris Strainer for 4" Bottom Knockout	**93488**	-	0.2
4" Oval to 6" Round Outlet Adapter	**95140**	-	1.1
K1-Installation Device	**97477**	-	2.8
Grate Removal Tool	**01318**	-	0.3
K1-QuickLok® Locking Bar	**02899**	-	0.1

1. *This channel offers a bottom knockout feature; 4" round/6" oval.*
2. *Inverts shown are for the male end; for female invert depth subtract 5 mm (≈0.2") from the male invert (except for neutral channels, where it will be same as male invert). To calculate the overall channel depth add 20 mm (≈0.8") to invert depth.*
3. *This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, trash bucket and plastic base. Select an appropriate grate.*
4. *This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, deep trash bucket, plastic riser and plastic base. Select an appropriate grate.*

Outlet Flow Rates

Outlet	Product	Outlet Size	Invert Depth in (mm)	GPM	CFS
a	Bottom Outlet - K00	4" Round	3.94 (100)	108	0.24
	Bottom Outlet - K40	4" Round	11.81 (300)	187	0.42
b	Bottom Outlet - K00	6" Oval	3.94 (100)	177	0.39
	Bottom Outlet - K40	6" Oval	11.81 (300)	306	0.68
c	K1-308-6 6" Outlet Cap	6" Oval	9.84 (350)	233	0.52
	K1-408-6 6" Outlet Cap	6" Oval	11.81 (300)	264	0.59
d	End Outlet - K20	4" Round	7.87 (200)	132	0.29
	End Outlet - K40	4" Round	11.81 (300)	171	0.38
e	Type K1-901G	4" Round	20.68 (525)	235	0.52
f	Type K1-901G	4" Round	27.17 (690)	226	0.50
g	Type K1-901G	4" Round	18.99 (482)	265	0.59
h	Type K1-901G	6" Round	27.17 (690)	263	0.59
i	Type K1-901G	4" Round	19.30 (490)	222	0.49
j	Type K1-901G	4" Round	25.67 (652)	586	1.30
k	Type K1-901G	6" Round	19.99 (508)	269	0.60
l	Type K1-901G	4" Round	19.36 (492)	227	0.51
m	Type K1-901G	6" Round	27.30 (693)	604	1.35
n	Type K1-901G	4" Round	26.43 (671)	505	1.12
o	Type K1-901G	6" Round	26.43 (671)	593	1.32
p	Type K1-901G	8" Round	27.30 (693)	1051	2.34
q	Type K1-901G	6" Round	25.85 (657)	273	0.61
r	Type K1-901G	4" Round	18.56 (471)	235	0.52
s	Type K1-901G	4" Round	25.30 (643)	224	0.50

Notes:
These are the pipe flow rates at the specified outlet, NOT channel flow rates.
Catch basin flow rates are without trash bucket (trash bucket reduces flow).

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ACO, Inc.

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