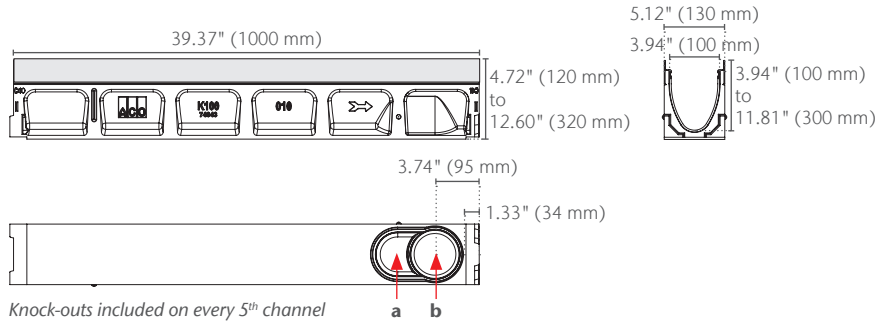


ACO Drain | KlassikDrain

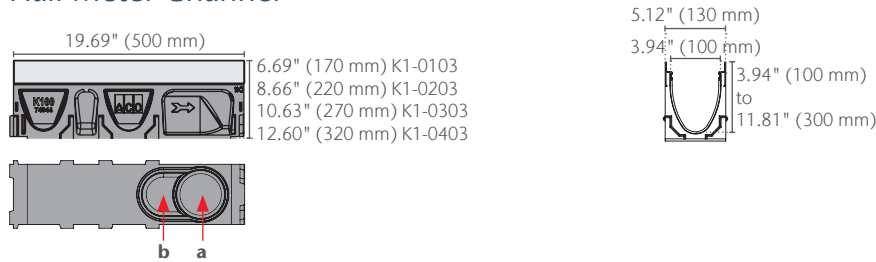
K100 Galvanized Steel Edge Rail Channel System



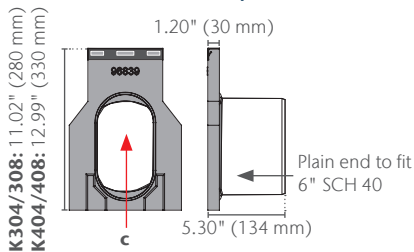
One Meter Channel



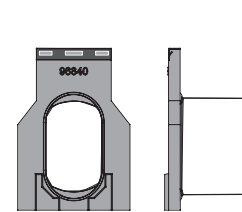
Half Meter Channel



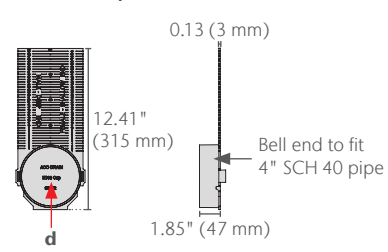
6" Oval Inlet Cap



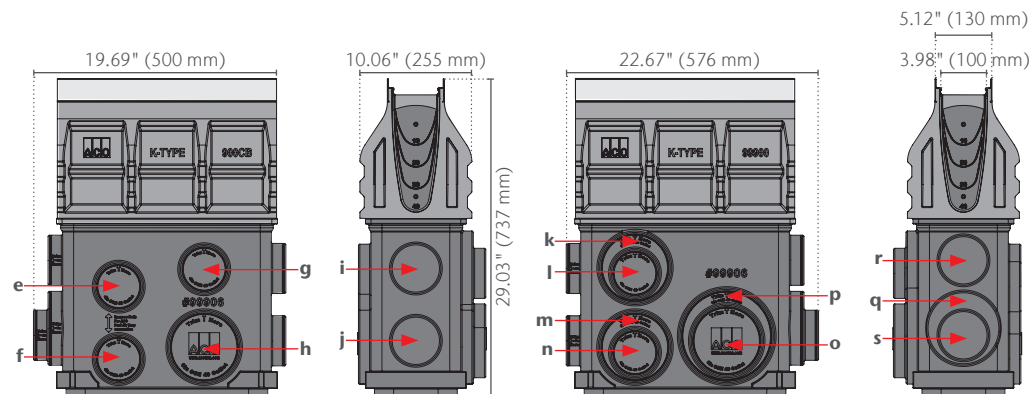
6" Oval Outlet Cap



End Cap



Type K901G In-line Catch Basin



Total capacity = 10.49 gallons



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 Channel - 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

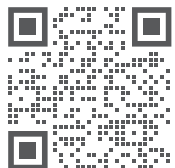
1. This channel offers a bottom knockout feature; 4" round/6" oval.
2. Inverts shown are for the male end; for female invert depth subtract 5 mm (≈0.2") from the male invert (except for neutral channels, where it will be same as male invert). To calculate the overall channel depth add 20 mm (≈0.8") to 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 (250)	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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All reasonable care has been taken in compiling the information in this document. All recommendations and suggestions on the use of ACO products are made without guarantee since the conditions of use are beyond the control of the company. It is the customer's responsibility to ensure that each product is fit for its intended purpose and that the actual conditions of use are suitable. ACO, Inc. reserves the right to change products and specifications without notice.

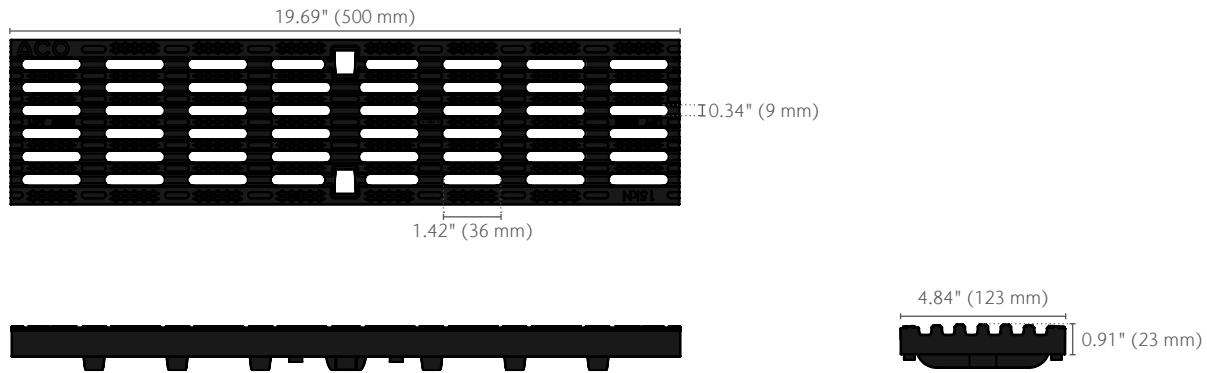


Type 494D/495D/496D Longitudinal Plastic Grate (ADA) Spec Sheet



Type 494D Longitudinal Plastic Grate

part no. 99575



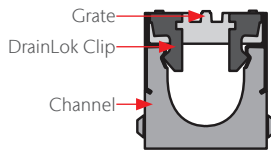
Product Name	Part No.	Length in (mm)	Width in (mm)	Weight lbs
Type 494D Longitudinal Plastic Grate (ADA)	99575	19.69 (500)	4.84 (123)	1.8
Type 495D Longitudinal Plastic Grate (ADA)	99756	19.69 (500)	4.84 (123)	1.8
Type 496D Longitudinal Plastic Grate (ADA)	99577	19.69 (500)	4.84 (123)	1.8

Type 494D/495D/496D Longitudinal Plastic Grate (ADA) Spec Sheet



DrainLok Locking Mechanism

ACO DrainLok is a patented, boltless locking system that removes the need for bolts and bars while improving the hydraulic capacity of the channel. DrainLok Clips lock into the channel's edge rail for rapid installation. ACO DrainLok grates are fitted with an anti-shunt mechanism that restricts unwanted grate movement when installed, improving durability and longevity of the system.



Specification Summary

General

The surface drainage system shall be ACO Drain K100, KS100, or H100K-8 channels, complete with ACO Type 494D black/495D gray/496D tan Longitudinal (ADA) Plastic grate with DrainLok locking as manufactured by ACO, Inc. or similar approved.

Installation

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

Materials

The covers shall be manufactured from polypropylene and have minimum properties as follows:

- UV stable polypropylene
- Intake area of 27.4 in² (176.8 cm²) per half meter of grate

The overall width of 4.84" (123mm) and overall length of 19.69" (500mm). Slots measure 0.34" (8mm) by 1.76" (44mm).



ADA-compliant per The Americans with Disabilities Act of 2010, Section 302.3



Slip-resistant:
BPN > 24 based on Pendulum Test



Australian Standard AS 3996 - 2006 Clause 3.3.6:
max slot length dependent on slot width for grates that are deemed Bicycle Tire Penetration Resistant.

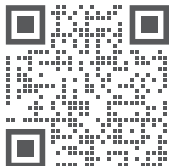


EN1433 Load Class A
3,372 lbs – 70 psi

ACO, Inc.

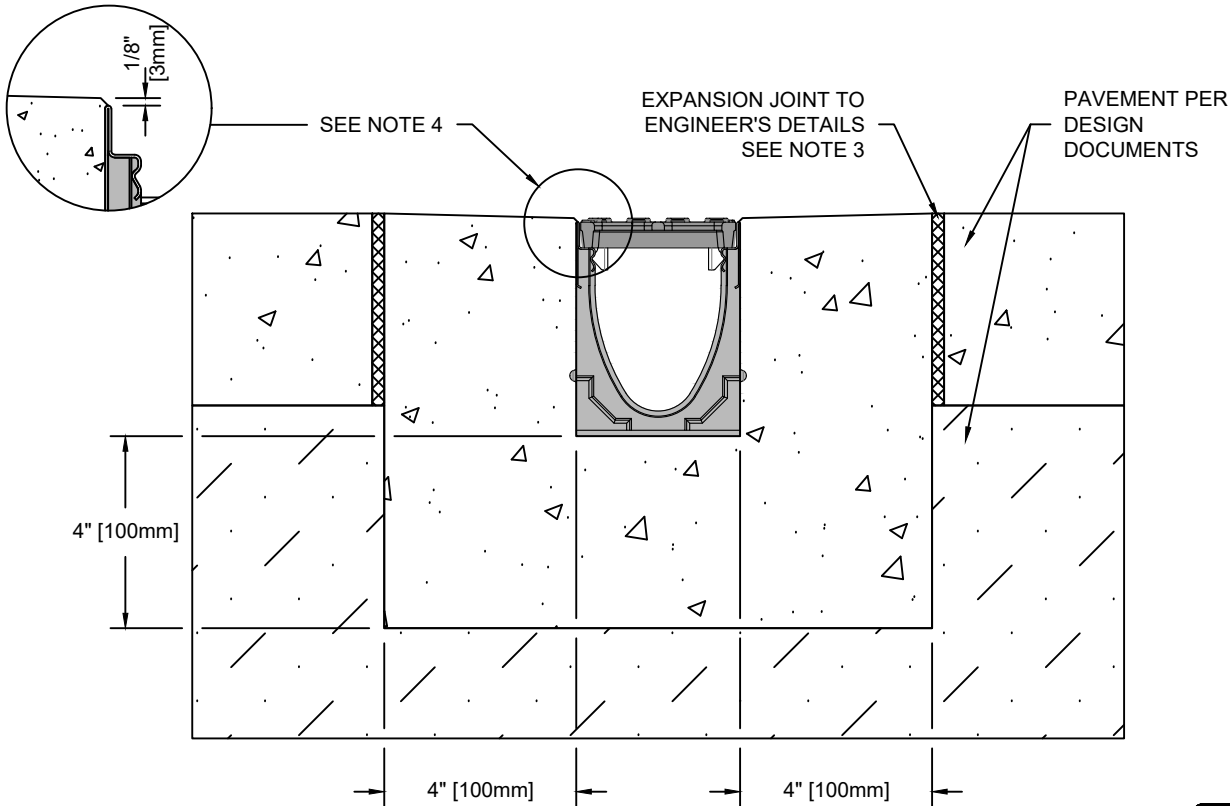
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www.acousa.com





NOTES:

1. ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

K100 KLASSIKDRAIN "DRAINLOK" LOAD CLASS A

GENERAL

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K100 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO, INC.

MATERIALS

CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	13,000 PSI
FLEXURAL STRENGTH:	3,200 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 4" (100mm) NOMINAL INTERNAL WIDTH WITH A 5.1" (130mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'DRAINLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

K1D-A-ECP

K100 - KLASSIKDRAIN - LOAD CLASS: A
Exposed Concrete Pavement



DATE: 12/18/25

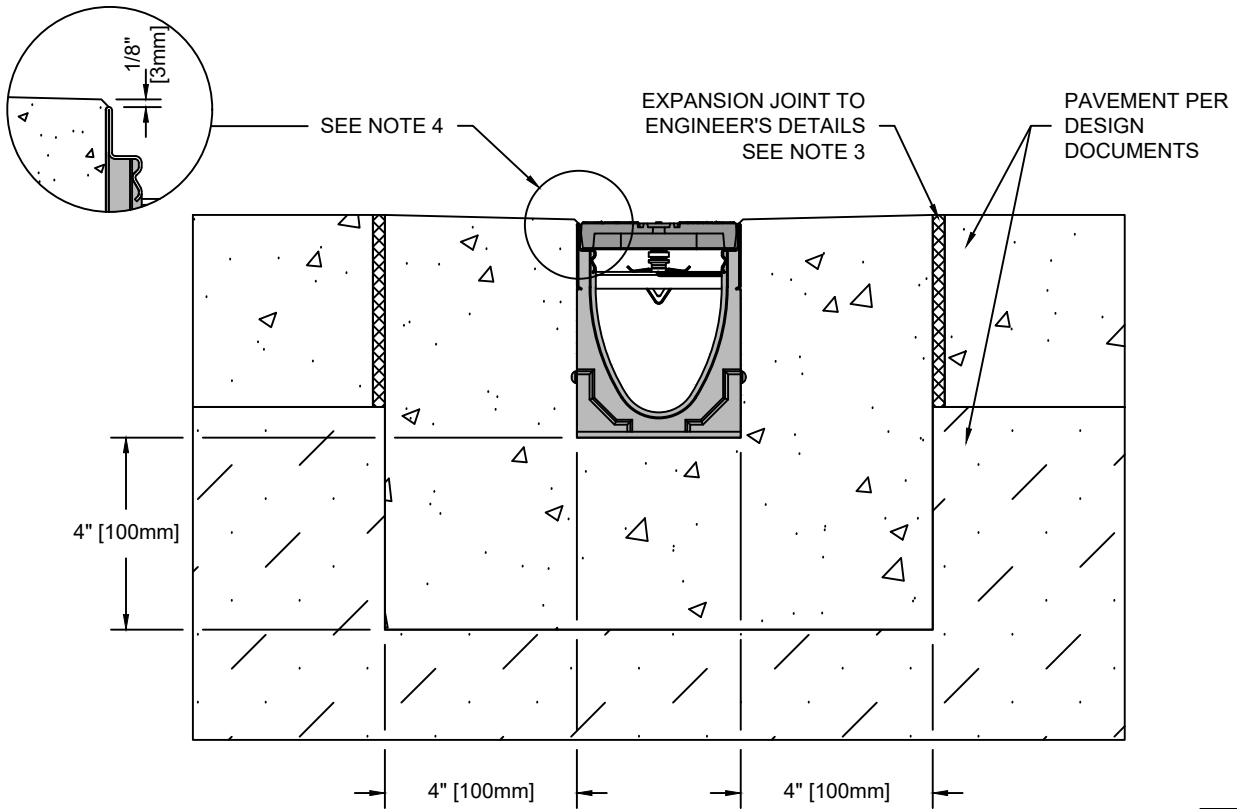
INSTALLATION DRAWING - ACO DRAIN

ACO, Inc.

825 W. Beechcraft St
Casa Grande, AZ 85122
Tel: 520-421-9988
Fax: 520-421-9899

9470 Pinecone Dr.
Mentor, OH 44060
Tel: 440-639-7230
Fax: 440-639-7235

481 Munn Rd. Suite #225
Fort Mill, SC 29715
Tel: 440-639-7230
Fax: 803-802-1063



SPECIFICATION CLAUSE

K100 KLASSIKDRAIN "QUICKKLOK" LOAD CLASS A

GENERAL

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K100 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO, INC.

MATERIALS

CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	13,000 PSI
FLEXURAL STRENGTH:	3,200 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 4" (100mm) NOMINAL INTERNAL WIDTH WITH A 5.1" (130mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.



THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'QUICKKLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

NOTES:

- ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
- MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
- EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
- THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
- CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. *ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.*
- REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

K1Q-A-ECP	K100 - KLASSIKDRAIN - LOAD CLASS: A Exposed Concrete Pavement	ACO, Inc.		
	INSTALLATION DRAWING - ACO DRAIN	825 W. Beechcraft St Casa Grande, AZ 85122 Tel: 520-421-9988 Fax: 520-421-9899	9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235	481 Munn Rd. Suite #225 Fort Mill, SC 29715 Tel: 440-639-7230 Fax: 803-802-1063
DATE: 12/18/25				