

NOTES:

1. IT IS NECESSARY TO 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 POLYMER PRODUCTS, 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:	14,000 PSI
FLEXURAL STRENGTH:	4,000 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 POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, 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

ACO Polymer Products, Inc.



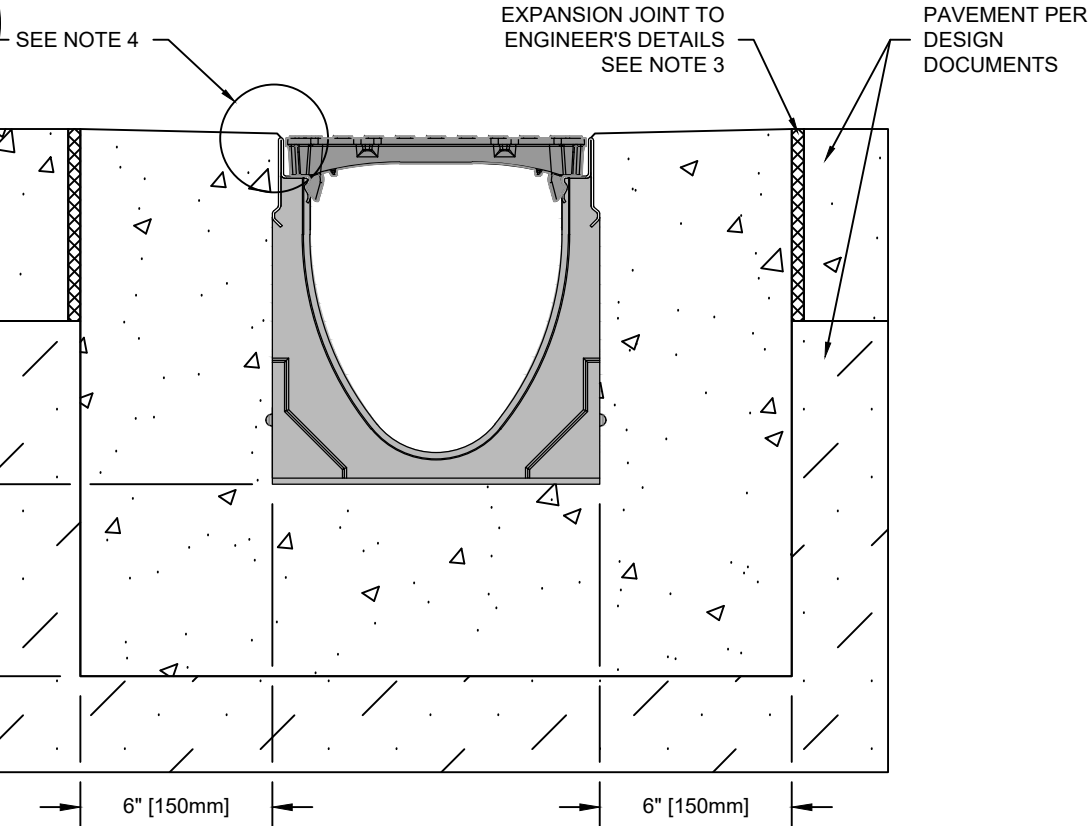
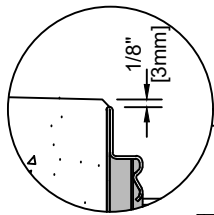
DATE: 08/16/17

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

4211 Pleasant Rd.
Fort Mill, SC 29708
Tel: 440-639-7230
Fax: 803-802-1063



NOTES:

1. IT IS NECESSARY TO 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

K200 KLASSIKDRAIN 'DRAINLOK' LOAD CLASS A

GENERAL

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K200 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, 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:	14,000 PSI
FLEXURAL STRENGTH:	4,000 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 8" (200mm) NOMINAL INTERNAL WIDTH WITH A 10.2" (260mm) 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 POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, 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.

K2D-A-ECP

K200 - KLASSIKDRAIN - LOAD CLASS: A
Exposed Concrete Pavement

ACO Polymer Products, Inc.



DATE: 08/17/16

INSTALLATION DRAWING - ACO DRAIN

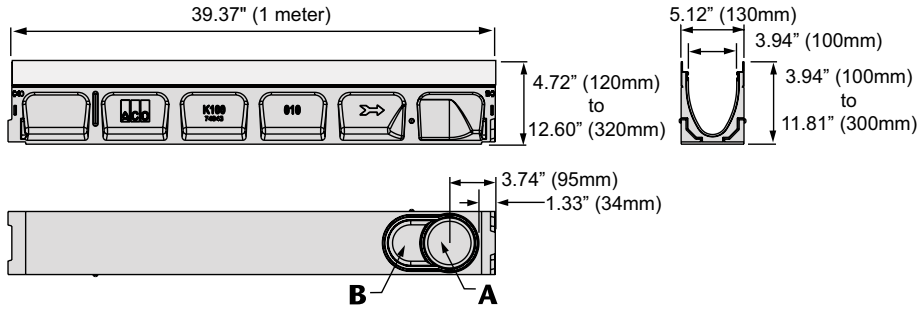
825 W. Beechcraft St
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Tel: 520-421-9988
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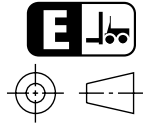
4211 Pleasant Rd.
Fort Mill, SC 29708
Tel: 440-639-7230
Fax: 803-802-1063

KlassikDrain - K100 Galvanized steel edge rail channel system

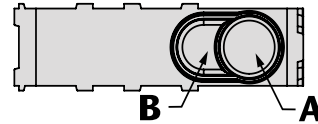
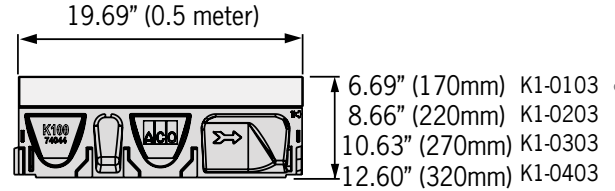
One meter channel



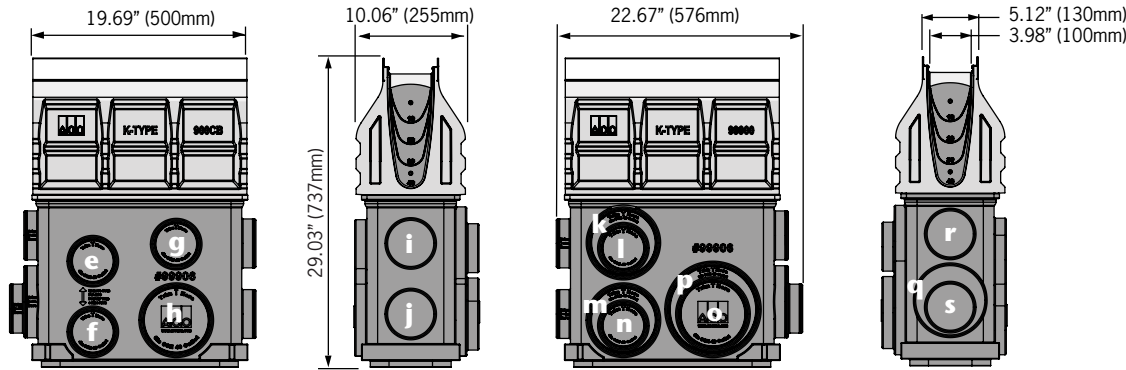
Knock-outs included on every 5th channel



Half meter channel



Type K901G In-line catch basin

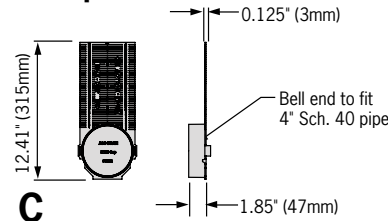


Total capacity = 10.49 gallons

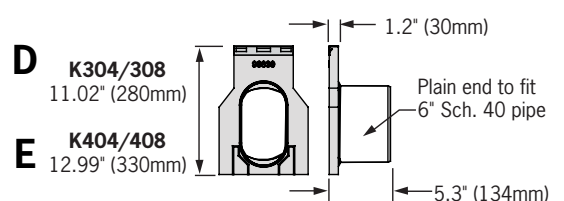
Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
a	Bottom outlet - K00	4" round	3.94"	108	0.24
a	Bottom outlet - K40	4" round	11.81"	187	0.42
b	Bottom outlet - K00	6" oval	3.94"	177	0.39
b	Bottom outlet - K40	6" oval	11.81"	306	0.68
c	End outlet - K20	4" round	7.87"	132	0.29
c	End outlet - K40	4" round	11.81"	171	0.38
d	K1-308-6" outlet cap	6" oval	9.84"	233	0.52
d	K1-408-6" outlet cap	6" oval	11.81"	264	0.59
e	Type K1-901G	4" round	20.68"	235	0.52
f	Type K1-901G	4" round	27.17"	226	0.50
g	Type K1-901G	4" round	18.99"	265	0.59
h	Type K1-901G	6" round	27.17"	263	0.59
i	Type K1-901G	4" round	19.30"	222	0.49
j	Type K1-901G	4" round	25.67"	586	1.30
k	Type K1-901G	6" round	19.99"	269	0.60
l	Type K1-901G	4" round	19.36"	227	0.51
m	Type K1-901G	6" round	27.30"	604	1.35
n	Type K1-901G	4" round	26.43"	505	1.12
o	Type K1-901G	6" round	26.43"	593	1.32
p	Type K1-901G	8" round	27.30"	1051	2.34
q	Type K1-901G	6" round	25.85"	273	0.61
r	Type K1-901G	4" round	18.56"	235	0.52
s	Type K1-901G	4" round	25.30"	224	0.50

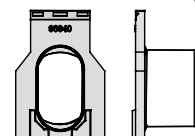
End Cap



6" Oval inlet cap



6" Oval outlet cap



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.

KlassikDrain - K100 Galvanized steel edge rail channel system



ACO Specification Information

Description	Part No.	Invert		Weight Lbs.	Description	Part No.	Invert		Weight Lbs.
		Inches ²	mm ²				Inches ²	mm ²	
K1-00 Neutral channel - 39.37" (1m)[Ⓐ]	74041	3.94	100	28.1	K1-28 Sloped channel - 39.37" (1m)	74028	9.45	240	49.8
K1-1 Sloped channel - 39.37" (1m)	74001	4.13	105	28.1	K1-29 Sloped channel - 39.37" (1m)	74029	9.65	245	50.6
K1-2 Sloped channel - 39.37" (1m)	74002	4.33	110	28.9	K1-30 Sloped channel - 39.37" (1m) [Ⓒ]	74030	9.84	250	51.4
K1-3 Sloped channel - 39.37" (1m)	74003	4.53	115	29.7	K1-030 Neutral channel - 39.37" (1m)[Ⓐ]	74047	9.84	250	51.4
K1-4 Sloped channel - 39.37" (1m)	74004	4.72	120	30.5	K1-0303 Neutral channel - 19.69" (0.5m)[Ⓐ]	74048	9.84	250	24.0
K1-5 Sloped channel - 39.37" (1m) [Ⓒ]	74005	4.92	125	31.3	K1-31 Sloped channel - 39.37" (1m)	74031	10.04	255	52.2
K1-6 Sloped channel - 39.37" (1m)	74006	5.12	130	32.1	K1-32 Sloped channel - 39.37" (1m)	74032	10.24	260	53.0
K1-7 Sloped channel - 39.37" (1m)	74007	5.31	135	32.9	K1-33 Sloped channel - 39.37" (1m)	74033	10.43	265	53.8
K1-8 Sloped channel - 39.37" (1m)	74008	5.51	140	33.7	K1-34 Sloped channel - 39.37" (1m)	74034	10.63	270	54.6
K1-9 Sloped channel - 39.37" (1m)	74009	5.71	145	34.5	K1-35 Sloped channel - 39.37" (1m) [Ⓒ]	74035	10.83	275	55.4
K1-10 Sloped channel - 39.37" (1m) [Ⓒ]	74010	5.91	150	35.3	K1-36 Sloped channel - 39.37" (1m)	74036	11.02	280	56.2
K1-010 Neutral channel - 39.37" (1m)[Ⓐ]	74043	5.91	150	35.3	K1-37 Sloped channel - 39.37" (1m)	74037	11.22	285	57.0
K1-0103 Neutral channel - 19.69" (0.5m)[Ⓐ]	74044	5.91	150	17.0	K1-38 Sloped channel - 39.37" (1m)	74038	11.42	290	57.9
K1-11 Sloped channel - 39.37" (1m)	74011	6.10	155	36.1	K1-39 Sloped channel - 39.37" (1m)	74039	11.61	295	58.7
K1-12 Sloped channel - 39.37" (1m)	74012	6.30	160	36.9	K1-40 Sloped channel - 39.37" (1m) [Ⓒ]	74040	11.81	300	59.5
K1-13 Sloped channel - 39.37" (1m)	74013	6.50	165	37.7	K1-040 Neutral channel - 39.37" (1m)[Ⓐ]	74049	11.81	300	59.5
K1-14 Sloped channel - 39.37" (1m)	74014	6.69	170	38.5	K1-0403 Neutral channel - 19.69" (0.5m)[Ⓐ]	74050	11.81	300	27.5
K1-15 Sloped channel - 39.37" (1m) [Ⓒ]	74015	6.89	175	39.3	K1-901G In-line catch basin - 19.69" (0.5m) [Ⓒ]	94608	28.81	701.9	52.6
K1-16 Sloped channel - 39.37" (1m)	74016	7.09	180	40.1	K1-621G catch basin - 19.69" (0.5m) [Ⓒ]	94617	28.84	732.5	55.8
K1-17 Sloped channel - 39.37" (1m)	74017	7.28	185	40.9	K1-631G catch basin - 19.69" (0.5m) [Ⓒ]	94631	40.84	1037.4	65.8
K1-18 Sloped channel - 39.37" (1m)	74018	7.48	190	41.7	K1-Series 600 Optional plastic riser	99902	-	-	10.0
K1-19 Sloped channel - 39.37" (1m)	74019	7.68	195	42.5	Foul air trap - fits both 900 & 600 series basins	90854	-	-	1.2
K1-20 Sloped channel - 39.37" (1m) [Ⓒ]	74020	7.87	200	43.4	K1-304-6 6" Inlet Cap	96839	9.84	250	5.2
K1-020 Neutral channel - 39.37" (1m)[Ⓐ]	74045	7.87	200	43.4	K1-308-6 6" Outlet Cap	96840	9.84	250	5.0
K1-0203 Neutral channel - 19.69" (0.5m)[Ⓐ]	74046	7.87	200	20.5	K1-404-6 6" Inlet Cap	96834	11.81	300	6.0
K1-21 Sloped channel - 39.37" (1m)	74021	8.07	205	44.2	K1-408-6 6" Outlet Cap	96836	11.81	300	5.8
K1-22 Sloped channel - 39.37" (1m)	74022	8.27	210	45.0	Universal end cap	96822	11.81	300	0.4
K1-23 Sloped channel - 39.37" (1m)	74023	8.46	215	45.8	Debris strainer for 4" bottom knockout	93488	-	-	0.2
K1-24 Sloped channel - 39.37" (1m)	74024	8.66	220	46.6	4" Oval to 6" round outlet adapter	95140	-	-	1.1
K1-25 Sloped channel - 39.37" (1m) [Ⓒ]	74025	8.86	225	47.4	K1-Installation device	97477	-	-	2.8
K1-26 Sloped channel - 39.37" (1m)	74026	9.06	230	48.2	Grate removal tool	01318	-	-	0.3
K1-27 Sloped channel - 39.37" (1m)	74027	9.25	235	49.0	K1-QuickLok locking bar	02899	-	-	0.1

Notes:

- This channel offers a bottom knockout feature; 4" round/6" oval.
- Inverts shown are for the male end; for female invert depth subtract 5mm (=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 20mm (=0.8") to invert depth.
- This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, trash bucket and plastic base. Select an appropriate grate.
- 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.

Specifications		Water absorption	0.07%	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" (2.5mm) thick.
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.		Frost proof	YES	
		Salt proof	YES	
		Dilute acid and alkali resistant	YES	
Materials The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:		The nominal clear opening shall be 4" (100mm) with overall width of 5.12" (130mm). 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" (13mm). 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		Grates Grates shall be specified. See separate ACO Spec Info grate sheets for details. After removal of gratings and 'QuickLok' bar there shall be uninterrupted access to the trench to aid maintenance.
Compressive strength:	14,000 psi			Installation 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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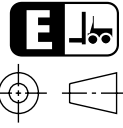
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KlassikDrain - K200 Galvanized steel edge rail channel system

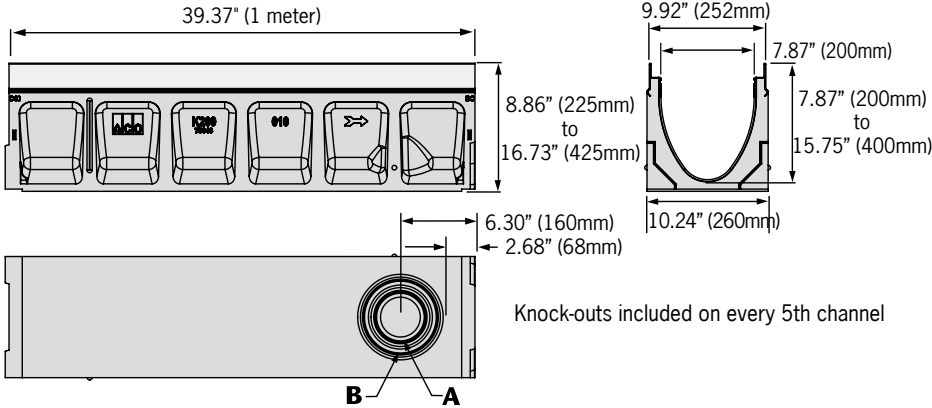
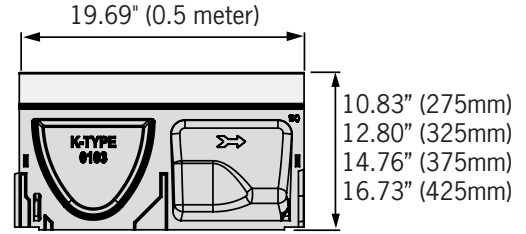
One meter channel



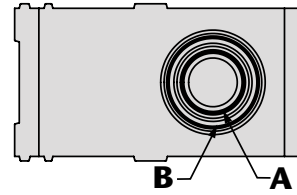
Inside view of channel - showing channel ID number and knockout if applicable (every 5th channel)



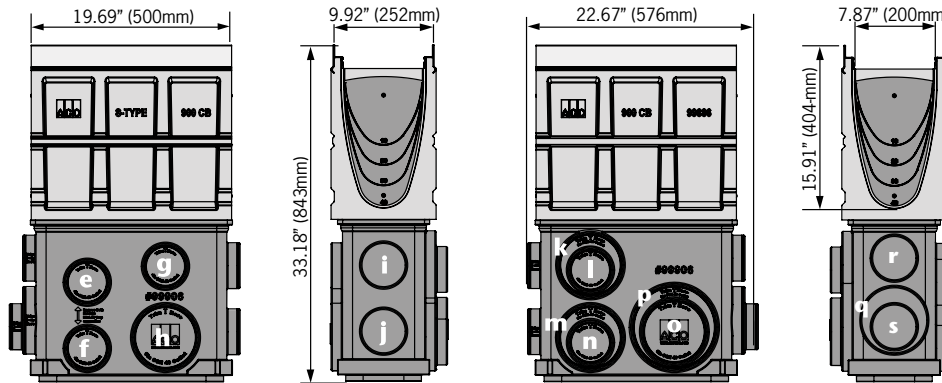
Half meter channel



Knock-outs included on every 5th channel



Type 902G In-line catch basin



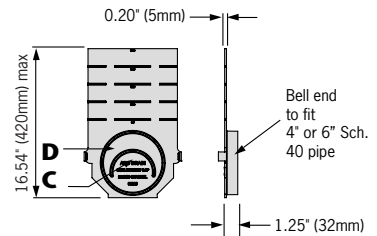
Total capacity = 19 gallons

Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - K2-00	4" round	7.87"	153	0.34
A	Bottom outlet - K2-040	4" round	15.75"	216	0.48
B	Bottom outlet - K2-00	6" round	7.87"	344	0.77
B	Bottom outlet - K2-040	6" round	15.75"	486	1.08
C	End outlet - K2-00	4" round	7.87"	132	0.29
C	End outlet - K2-40	4" round	15.75"	202	0.45
D	End outlet - K2-10	6" round	9.84"	320	0.71
D	End outlet - K2-40	6" round	15.75"	437	0.97
E	Type K2-902G	4" round	25.33"	263	0.59
F	Type K2-902G	4" round	31.83"	297	0.66
G	Type K2-902G	4" round	23.76"	254	0.57
H	Type K2-902G	6" round	31.83"	658	1.47
I	Type K2-902G	4" round	23.91"	255	0.57
J	Type K2-902G	4" round	30.40"	290	0.65
K	Type K2-902G	6" round	24.68"	570	1.27
L	Type K2-902G	4" round	24.13"	256	0.57
M	Type K2-902G	6" round	31.82"	658	1.47
N	Type K2-902G	4" round	31.26"	294	0.66
O	Type K2-902G	6" round	31.26"	651	1.45
P	Type K2-902G	8" round	31.82"	1149	2.56
Q	Type K2-902G	6" round	30.32"	640	1.43
R	Type K2-902G	4" round	23.19"	251	0.56
S	Type K2-902G	4" round	29.90"	288	0.64

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 Cap



KlassikDrain - K200 Galvanized steel edge rail channel system



ACO Specification Information

Description	Part No.	Invert		Wgt Lbs.
		Inches ²	mm ²	
K2-00 Neutral channel - 39.37" (1m)^D	75041	7.87	200	83.6
K2-1 Sloped channel - 39.37" (1m)	75001	8.07	205	83.6
K2-2 Sloped channel - 39.37" (1m)	75002	8.27	210	84.7
K2-3 Sloped channel - 39.37" (1m)	75003	8.46	215	85.8
K2-4 Sloped channel - 39.37" (1m)	75004	8.66	220	86.9
K2-5 Sloped channel - 39.37" (1m) ^D	75005	8.86	225	88.0
K2-6 Sloped channel - 39.37" (1m)	75006	9.06	230	89.1
K2-7 Sloped channel - 39.37" (1m)	75007	9.25	235	90.2
K2-8 Sloped channel - 39.37" (1m)	75008	9.45	240	91.3
K2-9 Sloped channel - 39.37" (1m)	75009	9.65	245	92.4
K2-10 Sloped channel - 39.37" (1m) ^D	75010	9.84	250	93.5
K2-010 Neutral channel - 39.37" (1m)^D	75043	9.84	250	93.5
K2-0103 Neutral channel - 19.69" (0.5m)^D	75044	9.84	250	56.0
K2-11 Sloped channel - 39.37" (1m)	75011	10.04	255	94.6
K2-12 Sloped channel - 39.37" (1m)	75012	10.24	260	95.7
K2-13 Sloped channel - 39.37" (1m)	75013	10.43	265	96.8
K2-14 Sloped channel - 39.37" (1m)	75014	10.63	270	97.9
K2-15 Sloped channel - 39.37" (1m) ^D	75015	10.83	275	99.0
K2-16 Sloped channel - 39.37" (1m)	75016	11.02	280	100.1
K2-17 Sloped channel - 39.37" (1m)	75017	11.22	285	101.2
K2-18 Sloped channel - 39.37" (1m)	75018	11.41	290	102.3
K2-19 Sloped channel - 39.37" (1m)	75019	11.61	295	103.4
K2-20 Sloped channel - 39.37" (1m) ^D	75020	11.81	300	104.5
K2-020 Neutral channel - 39.37" (1m)^D	75045	11.81	300	104.5
K2-0203 Neutral channel - 19.69" (0.5m)^D	75046	11.81	300	64.0
K2-21 Sloped channel - 39.37" (1m)	75021	12.01	305	105.6
K2-22 Sloped channel - 39.37" (1m)	75022	12.20	310	106.7
K2-23 Sloped channel - 39.37" (1m)	75023	12.40	315	107.8
K2-24 Sloped channel - 39.37" (1m)	75024	12.60	320	108.9
K2-25 Sloped channel - 39.37" (1m) ^D	75025	12.80	325	110.0
K2-26 Sloped channel - 39.37" (1m)	75026	12.99	330	111.1
K2-27 Sloped channel - 39.37" (1m)	75027	13.19	335	112.2

Description	Part No.	Invert		Wgt Lbs.
		Inches ²	mm ²	
K2-28 Sloped channel - 39.37" (1m)	75028	13.39	340	113.3
K2-29 Sloped channel - 39.37" (1m)	75029	13.58	345	114.4
K2-30 Sloped channel - 39.37" (1m) ^D	75030	13.78	350	115.5
K2-030 Neutral channel - 39.37" (1m)^D	75047	13.78	350	115.5
K2-0303 Neutral channel - 19.69" (0.5m)^D	75048	13.78	350	68.0
K2-31 Sloped channel - 39.37" (1m)	75031	13.98	355	116.6
K2-32 Sloped channel - 39.37" (1m)	75032	14.17	360	117.7
K2-33 Sloped channel - 39.37" (1m)	75033	14.37	365	118.8
K2-34 Sloped channel - 39.37" (1m)	75034	14.57	370	119.9
K2-35 Sloped channel - 39.37" (1m) ^D	75035	14.76	375	121.0
K2-36 Sloped channel - 39.37" (1m)	75036	14.96	380	122.1
K2-37 Sloped channel - 39.37" (1m)	75037	15.16	385	123.2
K2-38 Sloped channel - 39.37" (1m)	75038	15.35	390	124.3
K2-39 Sloped channel - 39.37" (1m)	75039	15.55	395	125.4
K2-40 Sloped channel - 39.37" (1m) ^D	75040	15.75	400	126.5
K2-040 Neutral channel - 39.37" (1m)^D	75049	15.75	400	126.5
K2-0403 Neutral channel - 19.69" (0.5m)^D	75050	15.75	400	77.0
K2-901G In-line catch basin - 19.69" (0.5m) ^D	94611	32.81	833.3	68.0
K2-621G catch basin - 19.69" (0.5m) ^D	94620	37.33	948.1	91.0
K2-631G catch basin - 19.69" (0.5m) ^D	94633	49.33	1252.9	101.0
K2-Series 600 Optional plastic riser	99902	-	-	10.0
Foul air trap - fits both 900 & 600 series basins	90854	-	-	1.2
Universal end cap	96821	15.71	399	1.4
Debris strainer for 8" bottom knockout	93488	-	-	0.2
K2-Installation device	97478	-	-	2.8
Grate removal tool	01318	-	-	0.3
K2-QuickLok locking bar	10457	-	-	0.5

Notes:

1. This channel offers a bottom knockout feature; 4" & 6" round
2. Inverts shown are for the male end; for female invert depth subtract 5mm (=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 25mm (=1.0") 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.

Specifications		Water absorption	0.07%	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" (2.5mm) thick.
General The surface drainage system shall be ACO Drain K200 complete with gratings secured with 'QuickLok' locking as manufactured by ACO, Inc. or approved equal.		Frost proof	YES	
Materials The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:		Salt proof	YES	
Compressive strength:	14,000 psi	Dilute acid and alkali resistant	YES	
Flexural strength:	4,000 psi	The nominal clear opening shall be 8" (200mm) with overall width of 10.24" (260mm). 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" (13mm). 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		Installation The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

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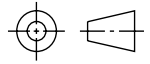
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Type 476D Longitudinal ductile iron grate (ADA)



Product Features

- Certified to EN 1433 Load Class C - 56,000 lbs - 1,162 psi
- Uses 'DrainLok' boltless locking system
- Suitable for use with K100, KS100, and H100K-8 channels
- Manufactured from ductile iron to ASTM A 536-84 - Grade 65-45-12
- E- coated for improved resistance against rust
- Complies with ADA - American Disabilities Act of 1990 Section 4.5.4
- Bicycle Tire Penetration Resistant to AS 3996 - 2006



ACO Specification Information

Specifications

General

The surface drainage system shall be ACO Drain K100, KS100, and H100K-8 channels*, complete with ACO Type 476D longitudinal ductile iron grate with 'DrainLok' locking as manufactured by ACO, Inc. or similar approved.

Materials

The covers shall be manufactured from ductile iron and have **minimum** properties as follows:

- **Independently certified to meet Load Class C to EN 1433 - 56,000 lbs - 1,162 psi**
- **Ductile iron to ASTM A 536-84 - Grade 65-45-12**
- **Intake area of 22.6 sq. in. (145.16 cm²) per half meter of grate**

The overall width of 4.85" (123mm) and overall length of 19.69" (500mm). Slots measure at 2.1" (53.34mm) by 0.24" (6.09mm).

Installation

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

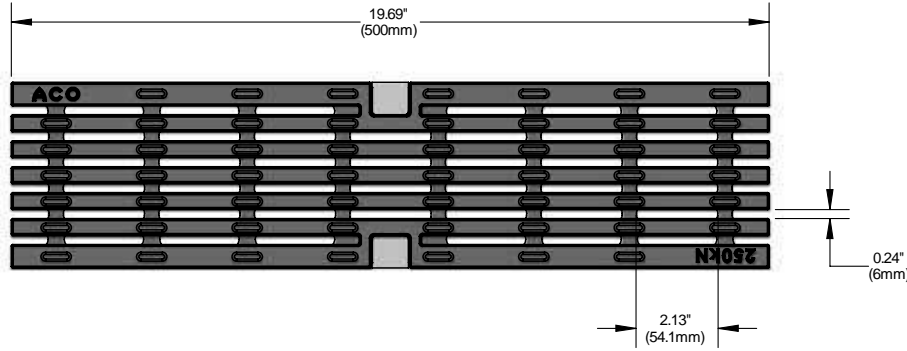
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ACO DRAIN

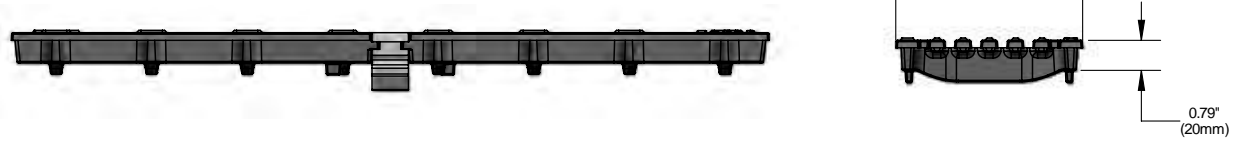
Type 476D Longitudinal ductile iron grate (ADA)



Plan view

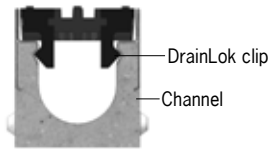


Side elevation



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
DrainLok grate Type 476D Ductile iron longitudinal grate	142171	19.69 (500)	4.85 (123.1)	7.0

'DrainLok' locking mechanism



ACO DrainLok™ is a patented, boltless locking system that removes the need for bolts and bars and improves the hydraulic capacity of the channel. The DrainLok™ mechanism simply clips into the channel 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.

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INSTALLATION SELECTION INFORMATION

1	<i>Your Selection Information</i>	<i>Grate Description</i>	Type 676D Longitudinal Ductile Iron Grate
		<i>Pavement Finish</i>	Concrete

2	<i>Additional Information based on your selection</i>	<i>Load Class</i>	C - 56,000lbs - 967 psi
		<i>Length(s)</i>	19.69" (500 mm)
		<i>Channel System</i>	KlassikDrain K200, KS200; SlabDrain H200-8, H200-10, H200K-8
		<i>Part No.</i>	142173

Note: The information is for grate only. Channels sold separately.

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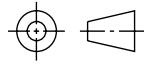
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Type 676D Longitudinal ductile iron grate (ADA)



Product Features

- Certified to EN 1433 Load Class C - 56,000 lbs - 967 psi
- Uses 'DrainLok' boltless locking system
- Suitable for use with K200, KS200, and H200K-13 channels
- Manufactured from ductile iron to ASTM A 536-84 - Grade 65-45-12
- E- coated for improved resistance against rust
- Complies with ADA - American Disabilities Act of 1990 Section 4.5.4
- Complies with ASME: A112.6.3 - 2001: Section 7.12 Heel Resistant Strainers and Grates
- Bicycle Tire Penetration Resistant to AS 3996 - 2006



Specifications

General

The surface drainage system shall be ACO Drain K200, KS200, and H200K-13, channels*, complete with ACO Type 676D longitudinal ductile iron grate with 'DrainLok' locking as manufactured by ACO Polymer Products, Inc. or similar approved.

Materials

The covers shall be manufactured from ductile iron and have **minimum** properties as follows:

- **Independently certified to meet Load Class C to EN 1433 - 56,000 lbs - 967 psi**
- **Ductile iron to ASTM A 536-84 - Grade 65-45-12**
- **Intake area of 35.8 sq. in. (23.096 cm²) per half meter of grate**

The overall width of 9.41" (239mm) and overall length of 19.69" (500mm). Slots measure at a maximum of 0.24" (6mm) by 2.07" (52.57mm).

Installation

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

* delete as appropriate

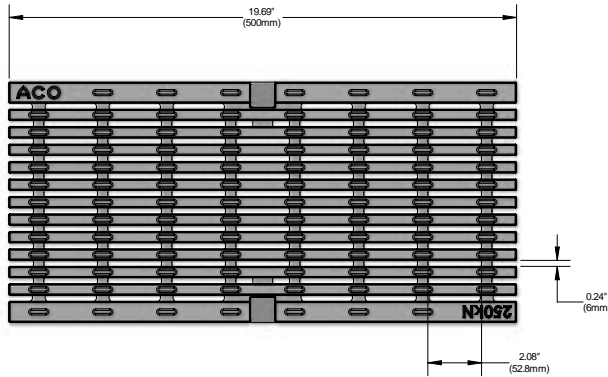
ACO Specification Information

ACO DRAIN

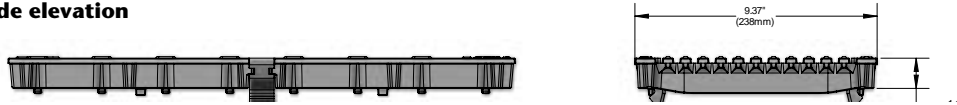
Type 676D Longitudinal ductile iron grate (ADA)



Plan view

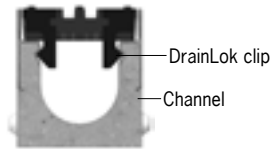


Side elevation



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
DrainLok grate Type 676D Ductile iron longitudinal grate	142173	19.69 (500)	9.41 (239)	18.0

'DrainLok' locking mechanism



ACO DrainLok™ is a patented, boltless locking system that removes the need for bolts and bars and improves the hydraulic capacity of the channel. The DrainLok™ mechanism simply clips into the channel 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.

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