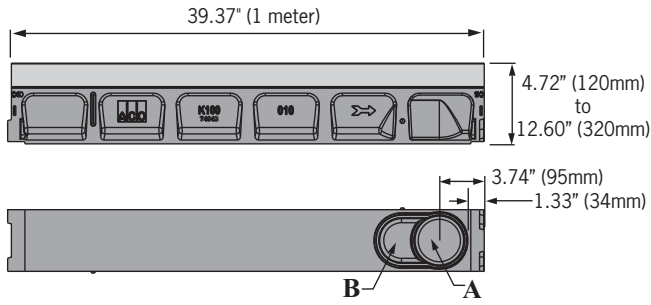


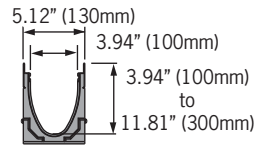
ACO DRAIN

KlassikDrain - K100 Galvanized steel edge rail channel system

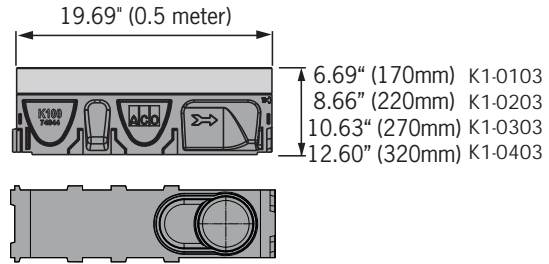
One meter channel



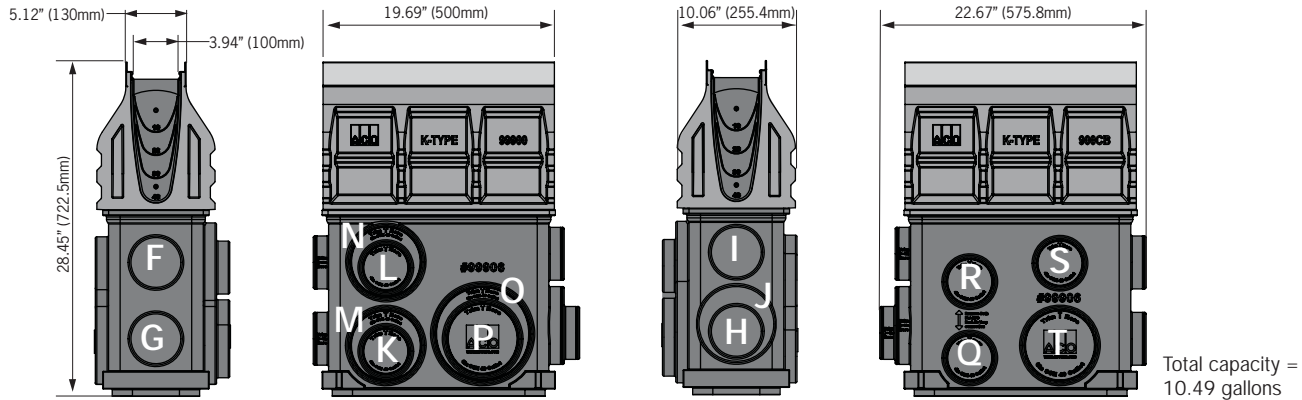
Knock-outs included on every 5th channel



Half meter channel



Type 901G In-line catch basin

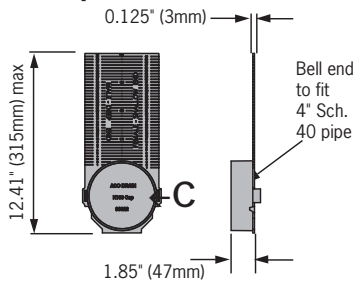


Outlet flow rates

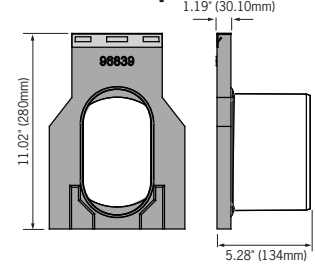
Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - K00	4" round	3.94"	108	0.24
A	Bottom outlet - K40	4" round	11.81"	187	0.42
B	Bottom outlet - K00	6" oval	3.94"	177	0.39
B	Bottom outlet - K40	6" oval	11.81"	306	0.68
C	End outlet - K20	4" round	7.87"	132	0.29
C	End outlet - K40	4" round	11.81"	171	0.38
D	K1-308-6 6" outlet cap	6" oval	9.84"	233	0.52
E	K1-408-6 6" outlet cap	6" oval	11.81"	264	0.59
F	Type K1-901G	4" round	19.30"	226	0.50
G	Type K1-901G	4" round	25.67"	265	0.59
H	Type K1-901G	4" round	25.30"	263	0.59
I	Type K1-901G	4" round	18.56"	222	0.49
J	Type K1-901G	6" round	25.85"	586	1.30
K	Type K1-901G	4" round	26.43"	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	6" round	19.99"	505	1.12
O	Type K1-901G	8" round	27.30"	1051	2.34
P	Type K1-901G	6" round	26.43"	593	1.32
Q	Type K1-901G	4" round	27.17"	273	0.61
R	Type K1-901G	4" round	20.68"	235	0.52
S	Type K1-901G	4" round	18.99"	224	0.50
T	Type K1-901G	6" round	27.17"	6.02	1.34

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.

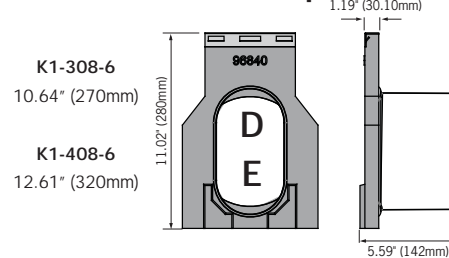
End Cap



6" Oval inlet cap



6" Oval outlet cap



Supplied By:



877-903-7246

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ACO Specification Information

ACO DRAIN

KlassikDrain - K100 Galvanized steel edge rail channel system



ACO Specification Information

Description	Part No.	Invert Inches [Ⓢ]	mm [Ⓢ]	Weight Lbs.
K1-00 Neutral channel - 39.37" (1m) [Ⓢ]	74041	3.94	100	28.1
K1-1 Sloped channel - 39.37" (1m)	74001	4.13	105	28.1
K1-2 Sloped channel - 39.37" (1m)	74002	4.33	110	28.9
K1-3 Sloped channel - 39.37" (1m)	74003	4.53	115	29.7
K1-4 Sloped channel - 39.37" (1m)	74004	4.72	120	30.5
K1-5 Sloped channel - 39.37" (1m) [Ⓢ]	74005	4.92	125	31.3
K1-6 Sloped channel - 39.37" (1m)	74006	5.12	130	32.1
K1-7 Sloped channel - 39.37" (1m)	74007	5.31	135	32.9
K1-8 Sloped channel - 39.37" (1m)	74008	5.51	140	33.7
K1-9 Sloped channel - 39.37" (1m)	74009	5.71	145	34.5
K1-10 Sloped channel - 39.37" (1m) [Ⓢ]	74010	5.91	150	35.3
K1-010 Neutral channel - 39.37" (1m) [Ⓢ]	74043	5.91	150	35.3
K1-0103 Neutral channel - 19.69" (0.5m) [Ⓢ]	74044	5.91	150	17.0
K1-11 Sloped channel - 39.37" (1m)	74011	6.10	155	36.1
K1-12 Sloped channel - 39.37" (1m)	74012	6.30	160	36.9
K1-13 Sloped channel - 39.37" (1m)	74013	6.50	165	37.7
K1-14 Sloped channel - 39.37" (1m)	74014	6.69	170	38.5
K1-15 Sloped channel - 39.37" (1m) [Ⓢ]	74015	6.89	175	39.3
K1-16 Sloped channel - 39.37" (1m)	74016	7.09	180	40.1
K1-17 Sloped channel - 39.37" (1m)	74017	7.28	185	40.9
K1-18 Sloped channel - 39.37" (1m)	74018	7.48	190	41.7
K1-19 Sloped channel - 39.37" (1m)	74019	7.68	195	42.5
K1-20 Sloped channel - 39.37" (1m) [Ⓢ]	74020	7.87	200	43.4
K1-020 Neutral channel - 39.37" (1m) [Ⓢ]	74045	7.87	200	43.4
K1-0203 Neutral channel - 19.69" (0.5m) [Ⓢ]	74046	7.87	200	20.5
K1-21 Sloped channel - 39.37" (1m)	74021	8.07	205	44.2
K1-22 Sloped channel - 39.37" (1m)	74022	8.27	210	45.0
K1-23 Sloped channel - 39.37" (1m)	74023	8.46	215	45.8
K1-24 Sloped channel - 39.37" (1m)	74024	8.66	220	46.6
K1-25 Sloped channel - 39.37" (1m) [Ⓢ]	74025	8.86	225	47.4
K1-26 Sloped channel - 39.37" (1m)	74026	9.06	230	48.2
K1-27 Sloped channel - 39.37" (1m)	74027	9.25	235	49.0

Description	Part No.	Invert Inches [Ⓢ]	mm [Ⓢ]	Weight Lbs.
K1-28 Sloped channel - 39.37" (1m)	74028	9.45	240	49.8
K1-29 Sloped channel - 39.37" (1m)	74029	9.65	245	50.6
K1-30 Sloped channel - 39.37" (1m) [Ⓢ]	74030	9.84	250	51.4
K1-030 Neutral channel - 39.37" (1m) [Ⓢ]	74047	9.84	250	51.4
K1-0303 Neutral channel - 19.69" (0.5m) [Ⓢ]	74048	9.84	250	24.0
K1-31 Sloped channel - 39.37" (1m)	74031	10.04	255	52.2
K1-32 Sloped channel - 39.37" (1m)	74032	10.24	260	53.0
K1-33 Sloped channel - 39.37" (1m)	74033	10.43	265	53.8
K1-34 Sloped channel - 39.37" (1m)	74034	10.63	270	54.6
K1-35 Sloped channel - 39.37" (1m) [Ⓢ]	74035	10.83	275	55.4
K1-36 Sloped channel - 39.37" (1m)	74036	11.02	280	56.2
K1-37 Sloped channel - 39.37" (1m)	74037	11.22	285	57.0
K1-38 Sloped channel - 39.37" (1m)	74038	11.42	290	57.9
K1-39 Sloped channel - 39.37" (1m)	74039	11.61	295	58.7
K1-40 Sloped channel - 39.37" (1m) [Ⓢ]	74040	11.81	300	59.5
K1-040 Neutral channel - 39.37" (1m) [Ⓢ]	74049	11.81	300	59.5
K1-0403 Neutral channel - 19.69" (0.5m) [Ⓢ]	74050	11.81	300	27.5
K1-901G In-line catch basin - 19.69" (0.5m) [Ⓢ]	94608	28.81	701.9	52.6
K1-621G catch basin - 19.69" (0.5m) [Ⓢ]	94617	28.84	732.5	55.8
K1-631G catch basin - 19.69" (0.5m) [Ⓢ]	94631	40.84	1037.4	65.8
K1-Series 600 Optional plastic riser	99902	-	-	10.0
Foul air trap - fits both 900 & 600 series basins	90854	-	-	1.2
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

Notes:

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 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.
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 K100 complete with gratings secured with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or approved equal.		Frost proof	YES	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.
		Salt proof	YES	
		Dilute acid and alkali resistant	YES	
		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		
Materials The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:	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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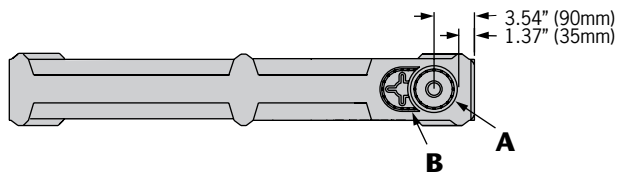
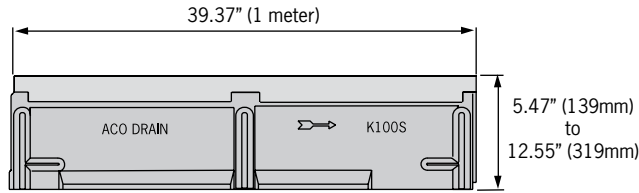
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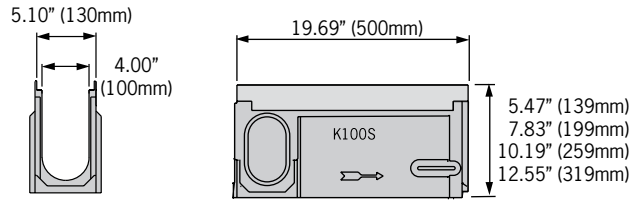
KlassikDrain - K100S, KS100S

K100S - Galvanized steel edge rail
KS100S - Stainless steel edge rail

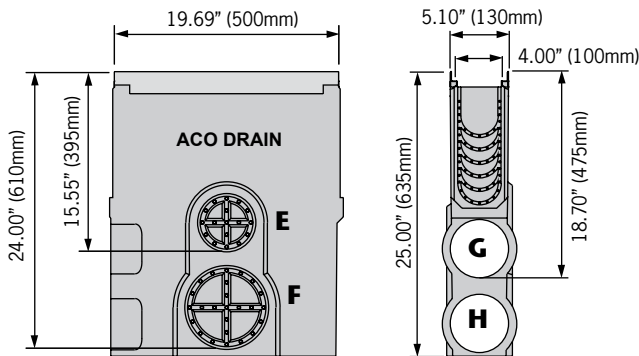
One meter channel



Half meter channel

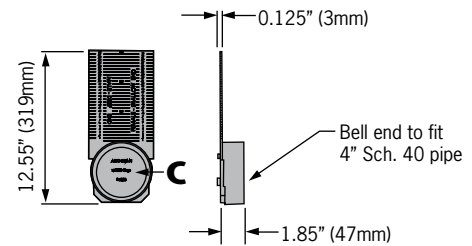


In-line catch basin

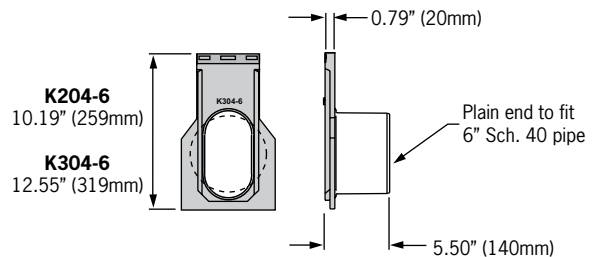


Total capacity = 6.5 gallons

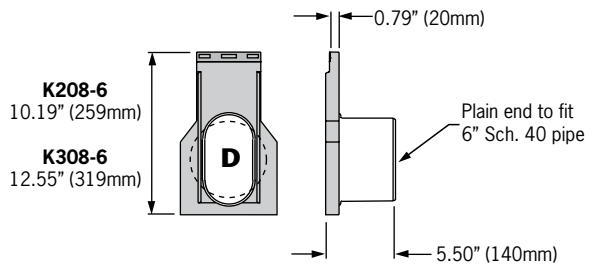
End Caps - Closing/inlet/outlet cap



6 inch Oval inlet cap



6 inch Oval outlet cap



Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - K01/KS01	4" round	4.60	117	0.26
A	Bottom outlet - K030/KS030	4" round	11.69	185	0.41
B	Bottom outlet - K01/KS01	6" oval	4.60	183	0.40
B	Bottom outlet - K030/KS030	6" oval	11.69	288	0.64
C	Outlet cap - K01/KS01	4" round	4.60	119	0.27
C	Outlet cap - K030/KS030	4" round	11.69	168	0.39
D	Outlet cap - K020/KS020	6" oval	9.33	220	0.50
D	Outlet cap - K030/KS030	6" oval	11.69	255	0.59
E	K900*/KS900* catch basin	4" round	15.60	200	0.45
F	K900*/KS900* catch basin	6" round	24.00	561	1.25
G	K900*/KS900* catch basin	4" round	18.70	222	0.49
H	K900*/KS900* catch basin	4" round	24.00	225	0.59

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.

ACO Specification Information

Supplied By:



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ACO DRAIN

K100S/KS100S trench drain system



K100S - Galvanized steel edge rail
KS100S - Stainless steel edge rail

Description	Part No.		Invert Depth		Weight lbs.
	K100S	KS100S	inches	mm	
K01 Neutral channel - 39.37" (1m)	04040	06740	4.60	117	27.6
K0013 Neutral channel - 19.69" (0.5m)	04035	06790	4.60	117	16.5
K1 Sloped channel - 39.37" (1m)	04041	06751	4.60 - 4.84	117 - 123	28.4
K2 Sloped channel - 39.37" (1m)	04042	06752	4.84 - 5.07	123 - 129	29.3
K3 Sloped channel - 39.37" (1m)	04043	06753	5.07 - 5.31	129 - 135	30.1
K4 Sloped channel - 39.37" (1m)	04044	06754	5.31 - 5.55	135 - 141	30.9
K5 Sloped channel - 39.37" (1m)	04045	06755	5.55 - 5.78	141 - 147	31.8
K6 Sloped channel - 39.37" (1m)	04046	06756	5.78 - 6.02	147 - 153	32.6
K7 Sloped channel - 39.37" (1m)	04047	06757	6.02 - 6.25	153 - 159	33.5
K8 Sloped channel - 39.37" (1m)	04048	06758	6.25 - 6.49	159 - 165	34.3
K9 Sloped channel - 39.37" (1m)	04049	06759	6.49 - 6.73	165 - 171	35.1
K10 Sloped channel - 39.37" (1m)	04050	06760	6.73 - 6.96	171 - 177	35.7
K010 Neutral channel - 39.37" (1m)	99272	99362	6.96	177	36.8
K0103 Neutral channel - 19.69" (0.5m)	99281	99374	6.96	177	20.5
K11 Sloped channel - 39.37" (1m)	04051	06761	6.96 - 7.20	177 - 183	37.6
K12 Sloped channel - 39.37" (1m)	04052	06762	7.20 - 7.44	183 - 189	38.5
K13 Sloped channel - 39.37" (1m)	04053	06763	7.44 - 7.68	189 - 195	39.3
K14 Sloped channel - 39.37" (1m)	04054	06764	7.68 - 7.92	195 - 201	40.1
K15 Sloped channel - 39.37" (1m)	04055	06765	7.92 - 8.14	201 - 207	41.0
K16 Sloped channel - 39.37" (1m)	04056	06766	8.14 - 8.38	207 - 213	41.8
K17 Sloped channel - 39.37" (1m)	04057	06767	8.38 - 8.62	213 - 219	42.7
K18 Sloped channel - 39.37" (1m)	04058	06768	8.62 - 8.86	219 - 225	43.5
K19 Sloped channel - 39.37" (1m)	04059	06769	8.86 - 9.09	225 - 231	44.3
K20 Sloped channel - 39.37" (1m)	04060	06770	9.09 - 9.33	231 - 232	45.2
K020 Neutral channel - 39.37" (1m)	99295	99388	9.33	237	46.0
K0203 Neutral channel - 19.69" (0.5m)	99304	99399	9.33	237	24.5
K21 Sloped channel - 39.37" (1m)	04061	06771	9.33 - 9.56	237 - 243	46.8
K22 Sloped channel - 39.37" (1m)	04062	06772	9.56 - 9.80	243 - 249	47.7
K23 Sloped channel - 39.37" (1m)	04063	06773	9.80 - 10.04	249 - 255	48.5
K24 Sloped channel - 39.37" (1m)	04064	06774	10.04 - 10.27	255 - 261	49.3
K25 Sloped channel - 39.37" (1m)	04065	06775	10.27 - 10.51	261 - 267	50.2
K26 Sloped channel - 39.37" (1m)	04066	06776	10.51 - 10.74	267 - 273	51.0
K27 Sloped channel - 39.37" (1m)	04067	06777	10.74 - 10.98	273 - 279	51.9
K28 Sloped channel - 39.37" (1m)	04068	06778	10.98 - 11.22	279 - 285	52.7
K29 Sloped channel - 39.37" (1m)	04069	06779	11.22 - 11.45	285 - 291	53.5
K30 Sloped channel - 39.37" (1m)	04070	06780	11.45 - 11.69	291 - 297	54.4
K030 Neutral channel - 39.37" (1m)	99317	99404	11.69	297	55.8
K0303 Neutral channel - 19.69" (0.5m)	99328	99415	11.69	297	29.0
In-line Catch Basin					
K900 in-line catch basin - 19.69" (0.5m)	96504	96495	24.00	610	71.2
900 QuickLok bar (removable)	98717	98717	-	-	0.1
Series 900 plastic trash bucket	01498	01498	-	-	1.1
Foul air trap	90854	90854	-	-	1.2
Accessories					
Universal plastic closing/4" inlet/outlet cap	96825	96825	-	-	0.4
K204-6 6" Sch. 40 inlet cap	97153	97162	9.33	237	2.5
K208-6 6" Sch. 40 outlet cap	97212	97229	9.33	237	3.9
K304-6 6" Sch. 40 inlet cap	97126	97139	11.69	297	3.3
K308-6 6" Sch. 40 outlet cap	97188	97197	11.69	297	4.9
Type 824 6" Sch. 40 oval to round outlet	95140	95140	-	-	1.1
QuickLok locking bar	02899	02899	-	-	0.1
QuickLok/PowerLok Grate Removal Tool	01318	01318	-	-	0.3

Notes:

1. Preformed 4" dia. & 6" flumed drill out outlet underside of every channel
2. Closing cap can be cut down for shallower channels
3. Add 0.87" (22mm) for overall depth of channels
4. Add 1" (25mm) for overall depth of catch basin
5. KS100S channels and catch basins have Grade 304 stainless steel rails

Specifications

General

The surface drainage system shall be ACO Drain K100S/KS100S* complete with gratings secured with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or equal approved.

Materials

The trench system bodies shall be manufactured from polyester polymer concrete with 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 4.00" (100mm) with overall width of 5.10" (130mm). Pre-cast units shall be manufactured with either an invert slope of 0.6% or with neutral invert and have a wall thickness of at least 0.50" (13mm). Each unit will feature a full radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring features on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. The galvanized/stainless* 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 1/8" (3mm) thick.

Grates

Grates should 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.

*delete as appropriate

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Electronic Contact:

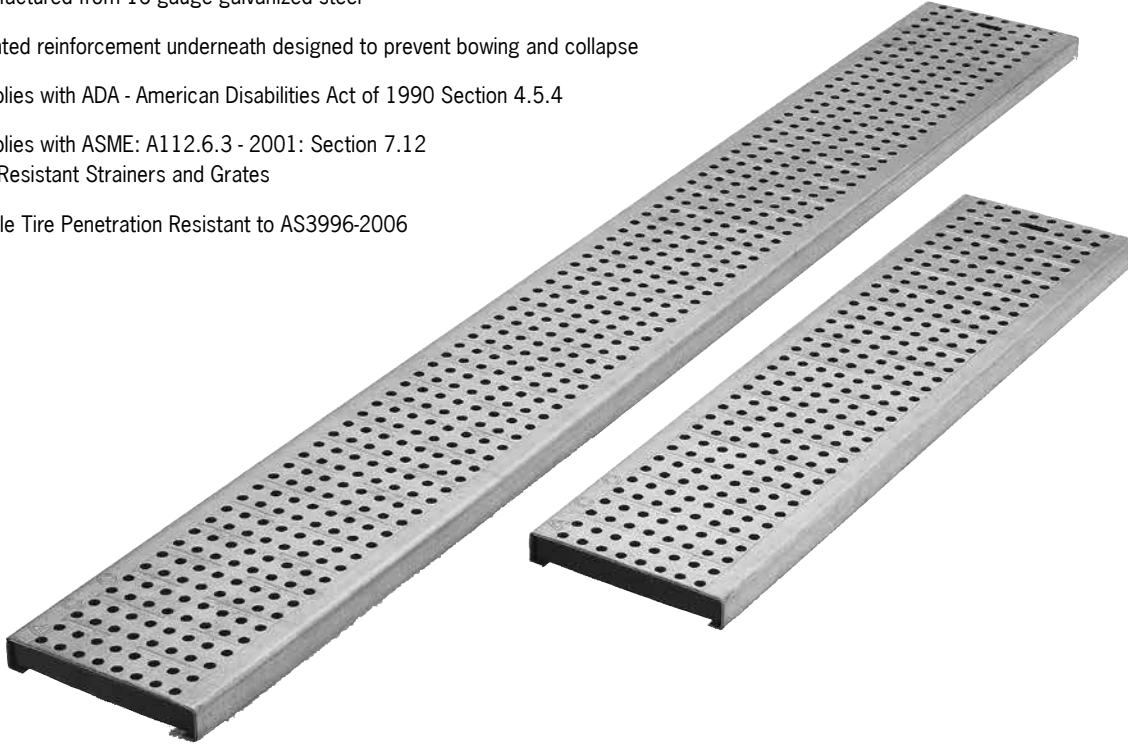
info@acousa.com
 www.acousa.com



Type 410Q/412Q Perforated galvanized steel grate

Product Features

- Certified to EN 1433 Load Class A - 3,500 lbs - 70 psi
- Uses 'QuickLok' boltless locking system
- Suitable for use with K100, KS100, C100, H100-8, H100-10, and H100K-8 channels
- Manufactured from 16 gauge galvanized steel
- Patented reinforcement underneath designed to prevent bowing and collapse
- 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 AS3996-2006



ACO Specification Information

Specifications

General

The surface drainage system shall be ACO Drain K100, KS100 C100, H100-8, H100-10, and H100K-8 channels* complete with ACO Type 410Q/412Q Perforated galvanized steel grate with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or similar approved.

Materials

The covers shall be manufactured from galvanized steel and have **minimum** properties as follows:-

- **Independently certified to meet Load Class A to EN 1433 - 3,500 lbs - 70 psi**
- **16 gauge galvanized steel**
- **Intake area of 14.1 sq. in. (91.0 cm²) per half meter of grate**

The overall width of 4.84" (123mm) and overall length of 39.37" (1000mm) (Type 410) and 19.69" (500mm)(Type 412). Perforations measure 0.25" (6.35mm) in diameter.

Installation

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

* delete as appropriate

Supplied By:



877-903-7246

www.trenchdrainsupply.com



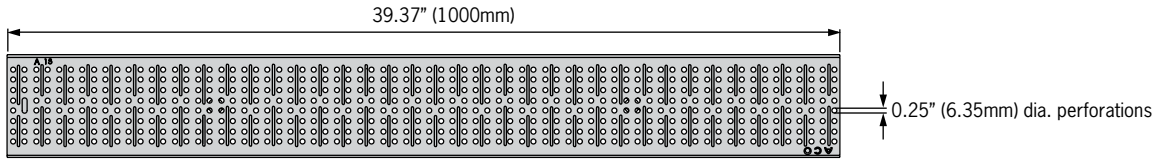
ACO DRAIN

Type 410Q/412Q Perforated galvanized steel grate

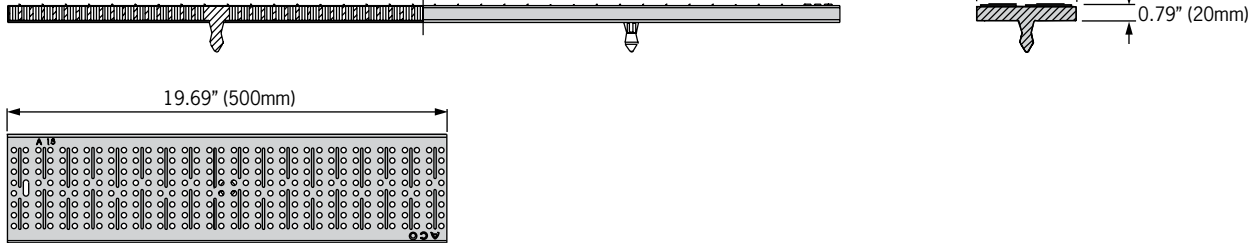


ACO Specification Information

Plan view

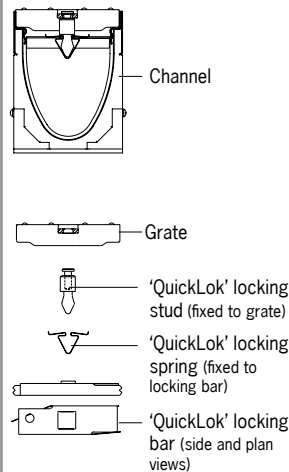


Side elevation



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
QuickLok grates				
Type 410Q perforated galvanized grate	98866	39.37 (1000)	4.84 (123)	6.3
Type 412Q perforated galvanized grate	98879	19.69 (500)	4.84 (123)	3.2
QuickLok locking bar	02899	-	-	0.2
QuickLok grate removal hook	01319	-	-	0.6

'QuickLok' locking mechanism



ACO 'QuickLok' is a patented boltless locking system, grates are removed and replaced with the minimum time and effort for ease of maintenance. The unique design provides a positive 'snap down' fit into the locking bar. A stud is fixed to the grate which 'locks' into the spring clip in the locking bar.

The 'QuickLok' stud is made from stainless steel and high density nylon, the locking bar and clip are stainless steel, for use in both general purpose and corrosive environments.

Supplied By:
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 www.trenchdrainsupply.com

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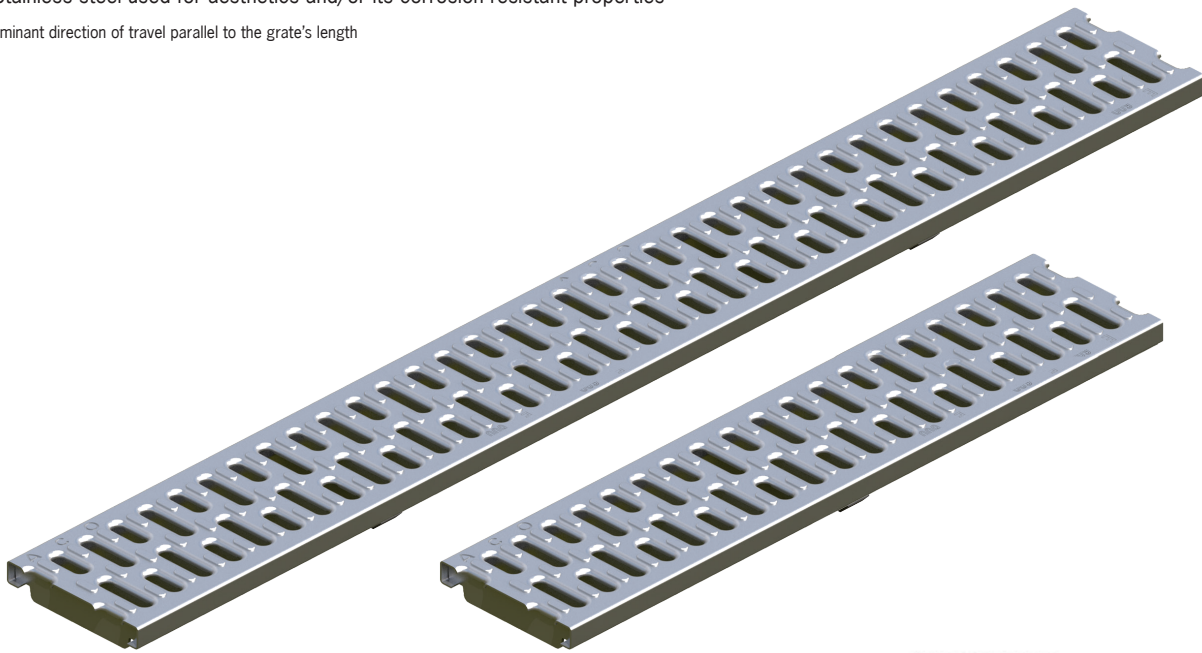
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Product Features

-  Certified to AS 3996 Load Class D (210kN) (NATA endorsed load test reports available)
-  AS 1428.1 (Clause 4.4b)¹ compliant for wheelchair and walking cane safety
-  AS 3996 (Clause 3.3.7) compliant for bicycle tyre penetration resistance

- **DrainLok** barless and boltless locking system
- Suitable for use with K100, KS100, H100K, H100KS channels
- Manufactured from either galvanised steel or Grade 304 stainless steel (pictured)
- Galvanised steel for use in general purpose applications
- Stainless steel used for aesthetics and/or its corrosion resistant properties

¹ Dominant direction of travel parallel to the grate's length



Supplied By:

**TRENCHDRAIN
SUPPLY**

877-903-7246

www.trenchdrainsupply.com

Specifications

The grate shall be ACO Type 425D/455D* Galvanised/Stainless* Slotted grate with **DrainLok** barless and boltless locking system as manufactured by ACO. This grate has an overall width of 123mm and overall length of 1000mm (Type 425D/455D*) and 500mm (Type 426D/457D*). Slot widths measure at a maximum of 10mm.

Materials & Design

The grate shall be manufactured from galvanised/stainless* steel and have **minimum** properties and characteristics as follows:

- Manufactured from galvanised/Grade 304 stainless* steel
- Certified to AS 3996 Load Class D (210kN)¹
- Meets AS 1428.1 (Clause 4.4b)²; AS 3996 (Clause 3.3.7)
- Intake area of 24,380mm² per metre of grate/12,190mm² per half metre of grate

¹ NATA endorsed test reports available

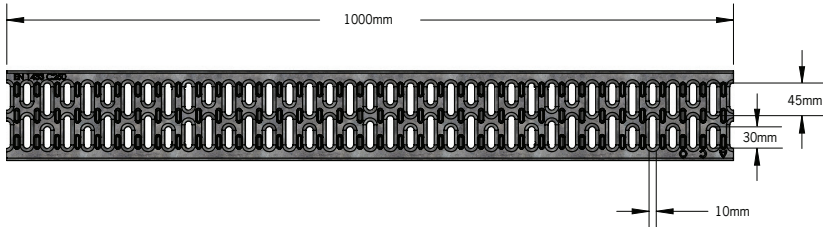
² Dominant direction of travel parallel to the grate's length

For the specification of the ACO Drain channel system selected, click: <http://www.acodrain.com.au/product-support> *delete as appropriate

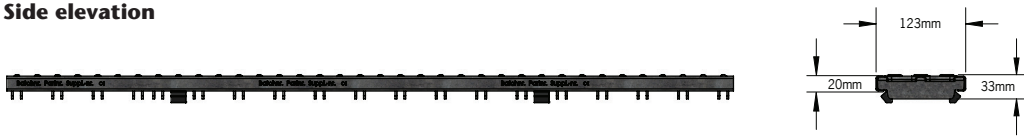
ACO Specification Information



Plan view

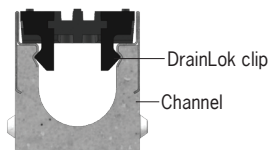


Side elevation



Description	Part No.	Length (mm)	Width (mm)	Weight (kg)
DrainLok grate				
Type 425D Galvanised Slotted	12614	1000	123	4.0
Type 426D Galvanised Slotted	12615	500	123	2.0
Type 455D Stainless Slotted	12644	1000	123	4.0
Type 457D Stainless Slotted	12645	500	123	2.0
Grate removal tool	01318	-	-	0.1

'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.

Supplied By:



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Type 460D Iron Slotted grate

Product Features

-  Certified to AS 3996 Load Class D (210kN) (NATA endorsed load test reports available)
-  AS 1428.1 (Clause 4.4b)¹ compliant for wheelchair and walking cane safety
-  AS 3996 (Clause 3.3.7) compliant for bicycle tyre penetration resistance
- **DrainLok** barless and boltless locking system
- Suitable for use with K100, KS100, H100K, H100KS channels
- Manufactured from ductile iron to AS 1831 Grade 500-7

¹ Dominant direction of travel parallel to the grate's length



Supplied By:

**TRENCHDRAIN
SUPPLY**

877-903-7246

www.trenchdrainsupply.com

Specifications

The grate shall be ACO Type 460D Iron Slotted grate with **DrainLok** barless and boltless locking system as manufactured by ACO. This grate has an overall width of 123mm and overall length of 500mm. Slot widths measure at a maximum of 11mm.

Materials & Design

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

- Manufactured from ductile iron to AS 1831 Grade 500-7
- Certified to AS 3996 Load Class D (210kN)¹
- Meets AS 1428.1 (Clause 4.4b)²; AS 3996 (Clause 3.3.7)
- Intake area of 22,000mm² per half metre of grate

¹ NATA endorsed test reports available

² Dominant direction of travel parallel to the grate's length

For the specification of the ACO Drain channel system selected, click: <http://www.acodrain.com.au/product-support>

ACO Specification Information

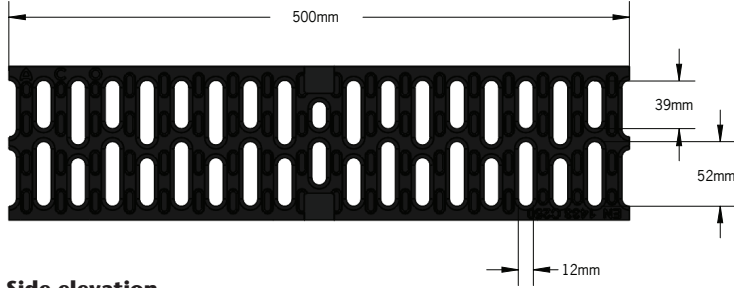


ACO DRAIN®

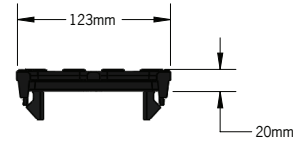
Type 460D Iron Slotted grate



Plan view

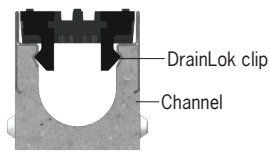


Side elevation



Description	Part No.	Length (mm)	Width (mm)	Weight (kg)
DrainLok grate				
Type 460D Iron Slotted	12670	500	123	4.6
Grate removal tool	01318	-	-	0.1

'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.

Supplied By:



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Type 461Q Ductile iron slotted grate



Product Features

- Certified to EN 1433 Load Class E - 135,000 lbs - 2,788 psi
- Uses 'QuickLok' boltless locking system
- Suitable for use with K100, KS100, C100, H100-8, H100-10, H100K-8, H100KS-8, and NW100 channels
- Manufactured from ductile iron to ASTM A 536-84 - Grade 65-45-12
- E- coated for improved resistance against rust
- Bicycle Tire Penetration Resistant to AS 3996 - 2006



ACO Specification Information

Specifications

General

The surface drainage system shall be ACO Drain K100, KS100, C100, H100-8, H100-10, H100K-8, H100KS-8, and NW100 channels* complete with ACO Type 461Q Ductile iron slotted grate with 'QuickLok' 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 E to EN 1433 - 135,000 lbs - 2,788 psi**
- **Ductile iron to ASTM A 536-84 - Grade 65-45-12**
- **Intake area of 46.94 sq. in. (302.84 cm²) per half meter of grate**

The overall width of 4.84" (123mm) and overall length of 19.69" (500mm). Slots measure at a maximum of 3.95" (100.2mm).

Installation

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

* delete as appropriate

Supplied By:



877-903-7246

www.trenchdrainsupply.com

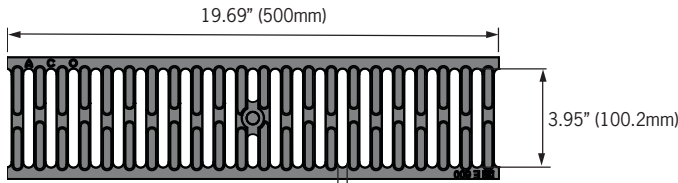


ACO DRAIN

Type 461Q Ductile iron slotted grate



Plan view

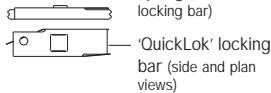
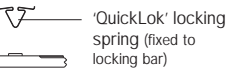
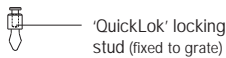
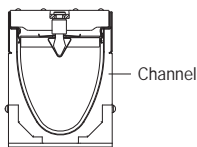


Side elevation



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
QuickLok grate				
Type 461Q Ductile iron slotted grate	96752	19.69 (500)	4.84 (123)	10.2
QuickLok locking bar	02899	-	-	0.1
QuickLok grate removal tool	01318	-	-	0.3

'QuickLok' locking mechanism



ACO 'QuickLok' is a patented boltless locking system, grates are removed and replaced with the minimum time and effort for ease of maintenance. The unique design provides a positive 'snap down' fit into the locking bar. A stud is fixed to the grate which 'locks' into the spring clip in the locking bar.

The 'QuickLok' stud is made from stainless steel and high density nylon, the locking bar and clip are stainless steel, for use in both general purpose and corrosive environments.

Supplied By:

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This grate is part of ACO's Heelsafe® Anti-Slip range. For more information visit www.heelsafe.com.au

Product Features

-  Certified to AS 3996 Load Class D (210kN) (NATA endorsed load test reports available)
 -  AS 3996 (Clause 3.3.6) compliant for surface openings in pedestrian areas
ASME A112.6.3 (Section 7.12) compliant - American high heel standard
 -  AS 4586: P2 – Slip resistance classification for Wet Pendulum Test
AS 4586: R10/R9¹ - Slip resistance classification for Oil-Wet Inclining Platform Test
 -  AS 1428.1 (Clause 4.4c) compliant for wheelchair and walking cane safety
 -  AS 3996 (Clause 3.3.7) compliant for bicycle tyre penetration resistance
- **DrainLok** barless and boltless locking system
 - Suitable for use with K100, KS100, H100K, H100KS channels
 - Manufactured from ductile iron to AS 1831 Grade 500-7

¹ Test direction (perpendicular/parallel) relative to the grate's length (NATA endorsed test reports available)



Supplied By:
TRENCHDRAIN SUPPLY
 877-903-7246
www.trenchdrainsupply.com

Specifications

The grate shall be ACO Type 476D Iron Intercept Heelsafe® Anti-Slip grate with DrainLok barless and boltless locking system as manufactured by ACO. This grate has an overall width of 123mm and overall length of 500mm. Slot widths measure at a maximum of 6mm.

Materials & Design

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

- Manufactured from ductile iron to AS 1831 Grade 500-7
- Certified to AS 3996 Load Class D (210kN)²
- AS 4586: P2 – Slip resistance classification for Wet Pendulum Test²
- AS 4586: R10/R9¹ – Slip resistance classification for Oil-Wet Inclining Platform Test²
- Meets AS 1428.1 (Clause 4.4c); AS 3996 (Clause 3.3.6 & 3.3.7); ASME A112.6.3 (Section 7.12)
- Intake area of 14,780mm² per half metre of grate

¹ Test direction (perpendicular/parallel) relative to the grate's length

² NATA endorsed test reports available

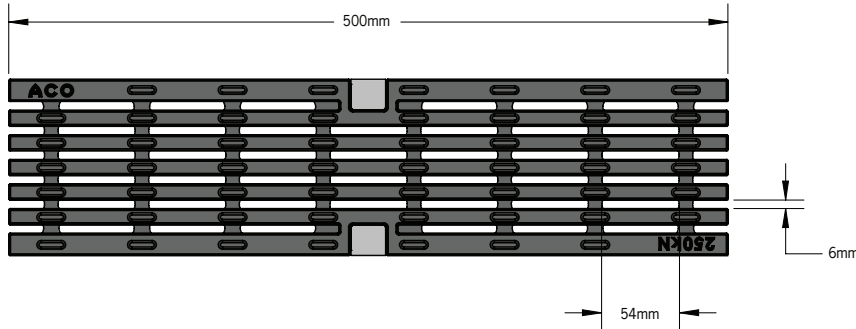
For the specification of the ACO Drain channel system selected, click: <http://www.acodrain.com.au/product-support>

ACO Specification Information

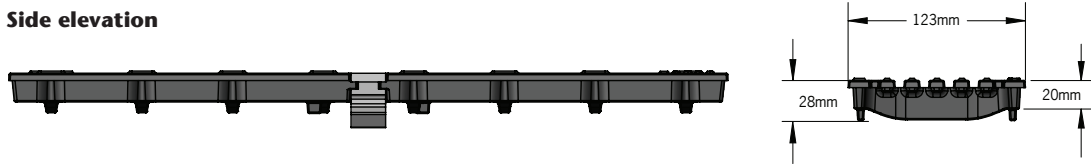




Plan view

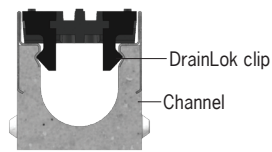


Side elevation



Description	Part No.	Length (mm)	Width (mm)	Weight (kg)
DrainLok grate Type 476D Iron Intercept Heelsafe® Anti-Slip Grate removal tool	142171 01318	500 -	123 -	3.8 0.1

'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.

Supplied By:



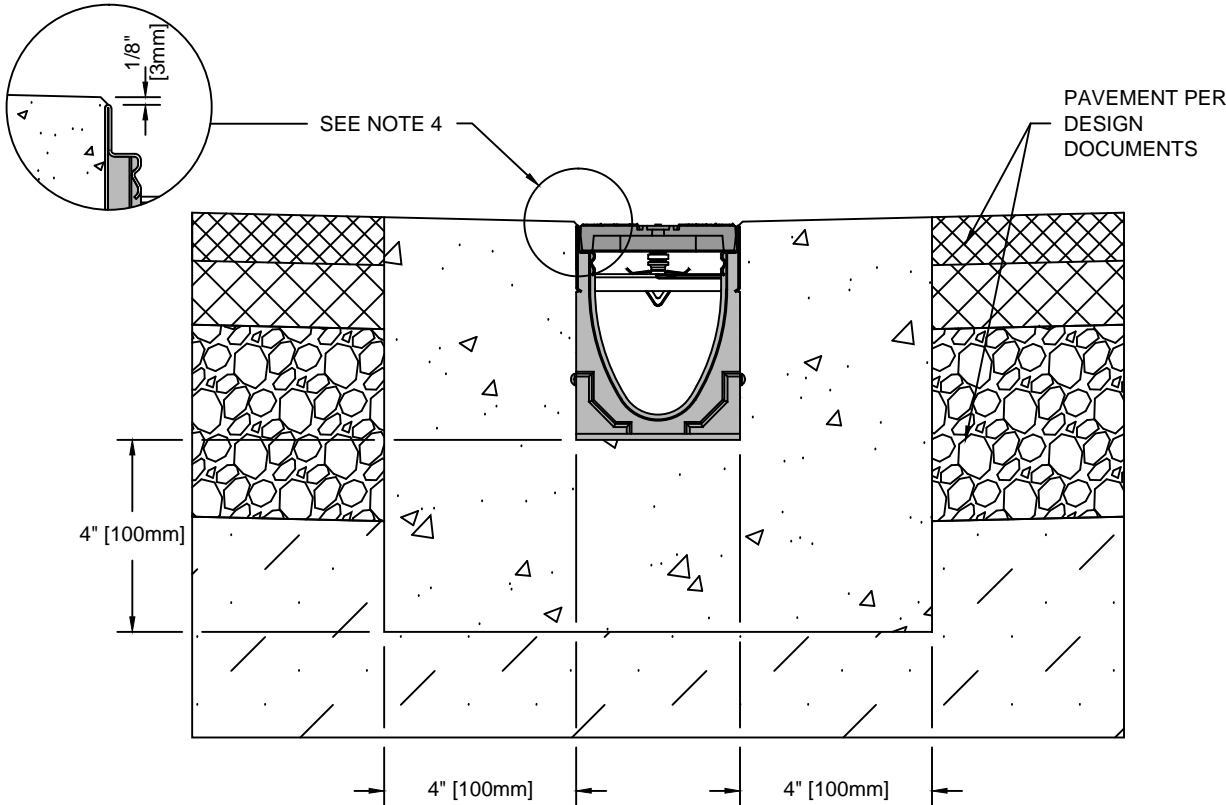
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New Zealand

Ph: 0800 448 080
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sales@aconz.co.nz





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 - 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 'QUICKLOK' 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.

K1-A-EAP

K100 - KLASSIKDRAIN - LOAD CLASS: A
Exposed Asphalt Pavement

ACO Polymer Products, Inc.



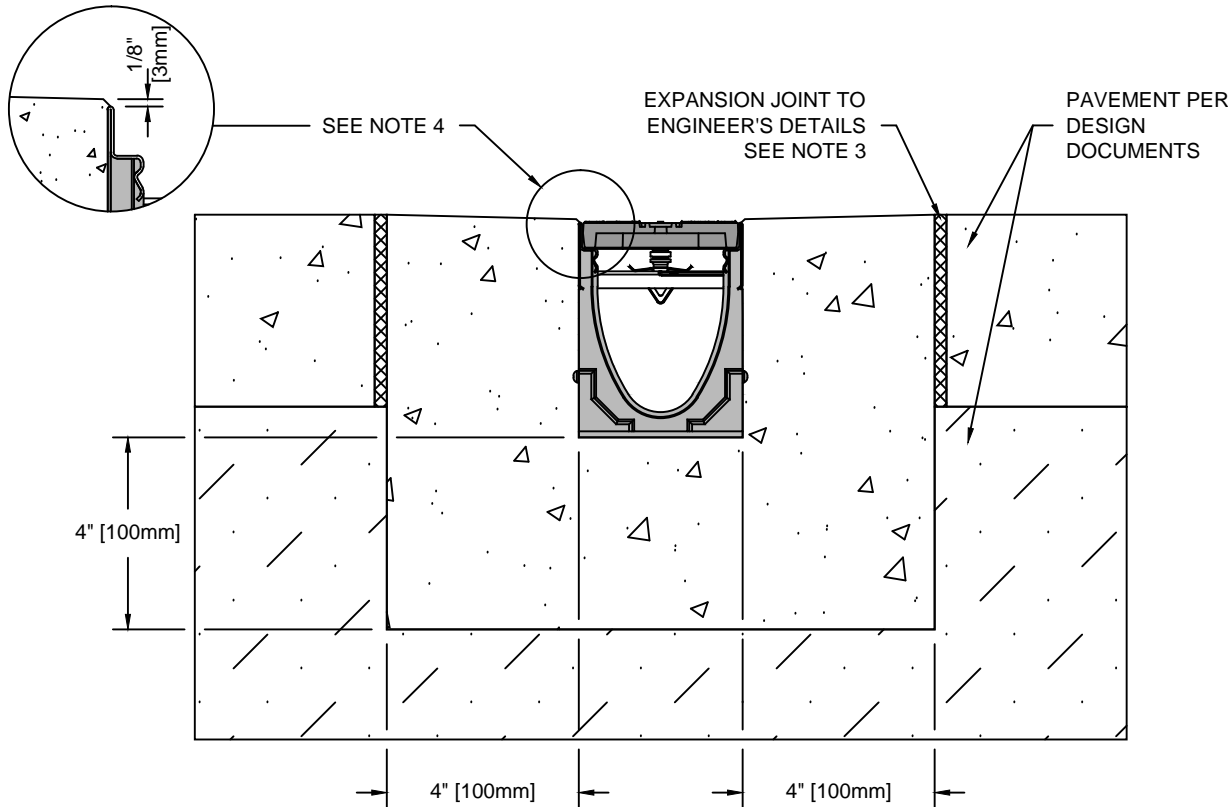
DATE: 03/21/13

INSTALLATION DRAWING - ACO DRAIN

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Fax: 520-421-9899

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Fax: 440-285-8517

4211 Pleasant Rd.
Fort Mill, SC 29708
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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

K100 KLASSIKDRAIN - 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 'QUICKLOK' 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.

K1-A-ECP

K100 - KLASSIKDRAIN - LOAD CLASS: A
Exposed Concrete Pavement

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INSTALLATION DRAWING - ACO DRAIN