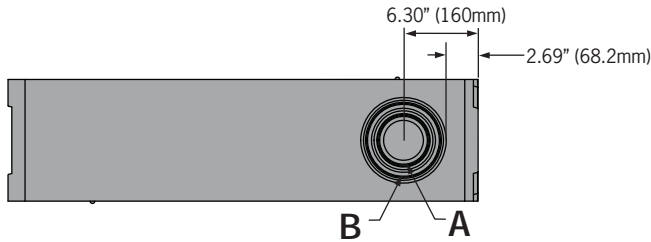
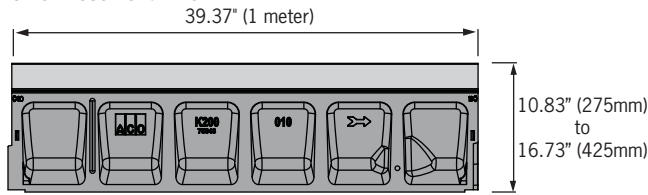


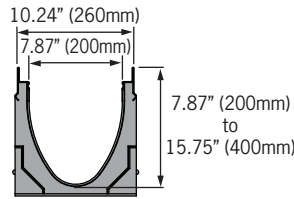
ACO DRAIN

KlassikDrain - KS200 Stainless steel edge rail channel system

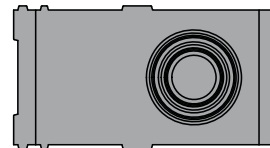
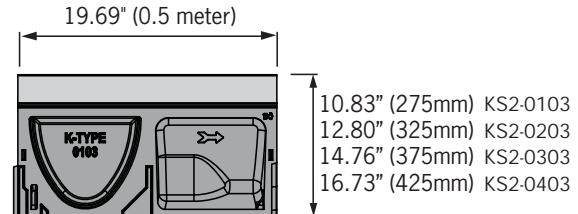
One meter channel



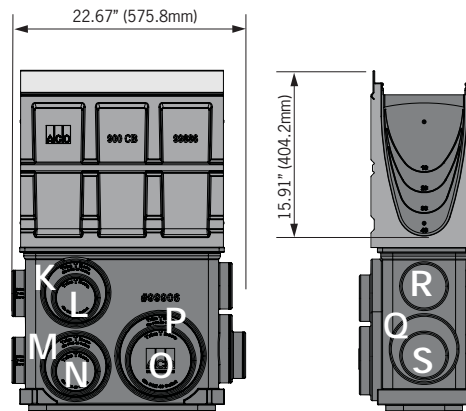
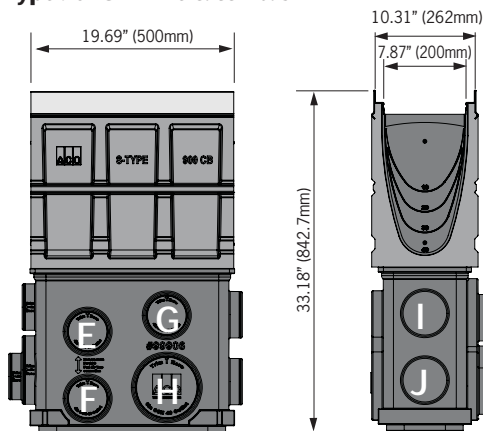
Knock-outs included on every 5th channel



Half meter channel



Type 902G In-line catch basin



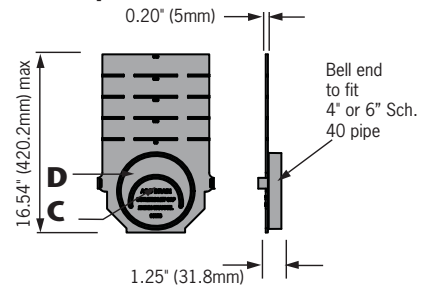
Total capacity = 19 gallons

Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - KS2-00	4" round	7.87"	153	0.34
A	Bottom outlet - KS2-040	4" round	15.75"	216	0.48
B	Bottom outlet - KS2-00	6" round	7.87"	344	0.77
B	Bottom outlet - KS2-040	6" round	15.75"	486	1.08
C	End outlet - KS2-00	4" round	7.87"	132	0.29
C	End outlet - KS2-40	4" round	15.75"	202	0.45
D	End outlet - KS2-10	6" round	9.84"	320	0.71
D	End outlet - KS2-40	6" round	15.75"	437	0.97
E	Type KS2-902G	4" round	25.33"	263	0.59
F	Type KS2-902G	4" round	31.83"	297	0.66
G	Type KS2-902G	4" round	23.76"	254	0.57
H	Type KS2-902G	6" round	31.83"	658	1.47
I	Type KS2-902G	4" round	23.91"	255	0.57
J	Type KS2-902G	4" round	30.40"	290	0.65
K	Type KS2-902G	6" round	24.68"	570	1.27
L	Type KS2-902G	4" round	24.13"	256	0.57
M	Type KS2-902G	6" round	31.82"	658	1.47
N	Type KS2-902G	4" round	31.26"	294	0.66
O	Type KS2-902G	6" round	31.26"	651	1.45
P	Type KS2-902G	8" round	31.82"	1149	2.56
Q	Type KS2-902G	6" round	30.32"	640	1.43
R	Type KS2-902G	4" round	23.19"	251	0.56
S	Type KS2-902G	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



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ACO Specification Information



ACO DRAIN

KlassikDrain - KS200 Stainless steel edge rail channel system



ACO Specification Information

Description	Part No.	Invert		Weight
		Inches ^Ø	mm ^Ø	Lbs.
K2-00 Neutral channel - 39.37" (1m) ^Ø	75441	7.87	200	83.6
K2-1 Sloped channel - 39.37" (1m)	75401	8.07	205	83.6
K2-2 Sloped channel - 39.37" (1m)	75402	8.27	210	84.7
K2-3 Sloped channel - 39.37" (1m)	75403	8.46	215	85.8
K2-4 Sloped channel - 39.37" (1m)	75404	8.66	220	86.9
K2-5 Sloped channel - 39.37" (1m) ^Ø	75405	8.86	225	88.0
K2-6 Sloped channel - 39.37" (1m)	75406	9.06	230	89.1
K2-7 Sloped channel - 39.37" (1m)	75407	9.25	235	90.2
K2-8 Sloped channel - 39.37" (1m)	75408	9.45	240	91.3
K2-9 Sloped channel - 39.37" (1m)	75409	9.65	245	92.4
K2-10 Sloped channel - 39.37" (1m) ^Ø	75410	9.84	250	93.5
K2-010 Neutral channel - 39.37" (1m) ^Ø	75443	9.84	250	93.5
K2-0103 Neutral channel - 19.69" (0.5m) ^Ø	75444	9.84	250	56.0
K2-11 Sloped channel - 39.37" (1m)	75411	10.04	255	94.6
K2-12 Sloped channel - 39.37" (1m)	75412	10.24	260	95.7
K2-13 Sloped channel - 39.37" (1m)	75413	10.43	265	96.8
K2-14 Sloped channel - 39.37" (1m)	75414	10.63	270	97.9
K2-15 Sloped channel - 39.37" (1m) ^Ø	75415	10.83	275	99.0
K2-16 Sloped channel - 39.37" (1m)	75416	11.02	280	100.1
K2-17 Sloped channel - 39.37" (1m)	75417	11.22	285	101.2
K2-18 Sloped channel - 39.37" (1m)	75418	11.41	290	102.3
K2-19 Sloped channel - 39.37" (1m)	75419	11.61	295	103.4
K2-20 Sloped channel - 39.37" (1m) ^Ø	75420	11.81	300	104.5
K2-020 Neutral channel - 39.37" (1m) ^Ø	75445	11.81	300	104.5
K2-0203 Neutral channel - 19.69" (0.5m) ^Ø	75446	11.81	300	64.0
K2-21 Sloped channel - 39.37" (1m)	75421	12.01	305	105.6
K2-22 Sloped channel - 39.37" (1m)	75422	12.20	310	106.7
K2-23 Sloped channel - 39.37" (1m)	75423	12.40	315	107.8
K2-24 Sloped channel - 39.37" (1m)	75424	12.60	320	108.9
K2-25 Sloped channel - 39.37" (1m) ^Ø	75425	12.80	325	110.0
K2-26 Sloped channel - 39.37" (1m)	75426	12.99	330	111.1
K2-27 Sloped channel - 39.37" (1m)	75427	13.19	335	112.2

Description	Part No.	Invert		Weight
		Inches ^Ø	mm ^Ø	Lbs.
K2-28 Sloped channel - 39.37" (1m)	75428	13.39	340	113.3
K2-29 Sloped channel - 39.37" (1m)	75429	13.58	345	114.4
K2-30 Sloped channel - 39.37" (1m) ^Ø	75430	13.78	350	115.5
K2-030 Neutral channel - 39.37" (1m) ^Ø	75447	13.78	350	115.5
K2-0303 Neutral channel - 19.69" (0.5m) ^Ø	75448	13.78	350	68.0
K2-31 Sloped channel - 39.37" (1m)	75431	13.98	355	116.6
K2-32 Sloped channel - 39.37" (1m)	75432	14.17	360	117.7
K2-33 Sloped channel - 39.37" (1m)	75433	14.37	365	118.8
K2-34 Sloped channel - 39.37" (1m)	75434	14.57	370	119.9
K2-35 Sloped channel - 39.37" (1m) ^Ø	75435	14.76	375	121.0
K2-36 Sloped channel - 39.37" (1m)	75436	14.96	380	122.1
K2-37 Sloped channel - 39.37" (1m)	75437	15.16	385	123.2
K2-38 Sloped channel - 39.37" (1m)	75438	15.35	390	124.3
K2-39 Sloped channel - 39.37" (1m)	75439	15.55	395	125.4
K2-40 Sloped channel - 39.37" (1m) ^Ø	75440	15.75	400	126.5
K2-040 Neutral channel - 39.37" (1m) ^Ø	75449	15.75	400	126.5
K2-0403 Neutral channel - 19.69" (0.5m) ^Ø	75450	15.75	400	77.0
K2-901G In-line catch basin - 19.69" (0.5m) ^Ø	94612	32.81	833.3	68.0
K2-621G catch basin - 19.69" (0.5m) ^Ø	94621	37.33	948.1	91.0
K2-631G catch basin - 19.69" (0.5m) ^Ø	94634	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 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
General The surface drainage system shall be ACO Drain KS200 complete with gratings secured with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or approved equal.		Frost proof	YES	homogeneity between polymer concrete body and
		Salt proof	YES	edge rail. Each edge rail shall be at least 3/32"
		Dilute acid and alkali resistant	YES	(2.5mm) thick.
		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 stainless 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.
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		

ACO Polymer Products, Inc.

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

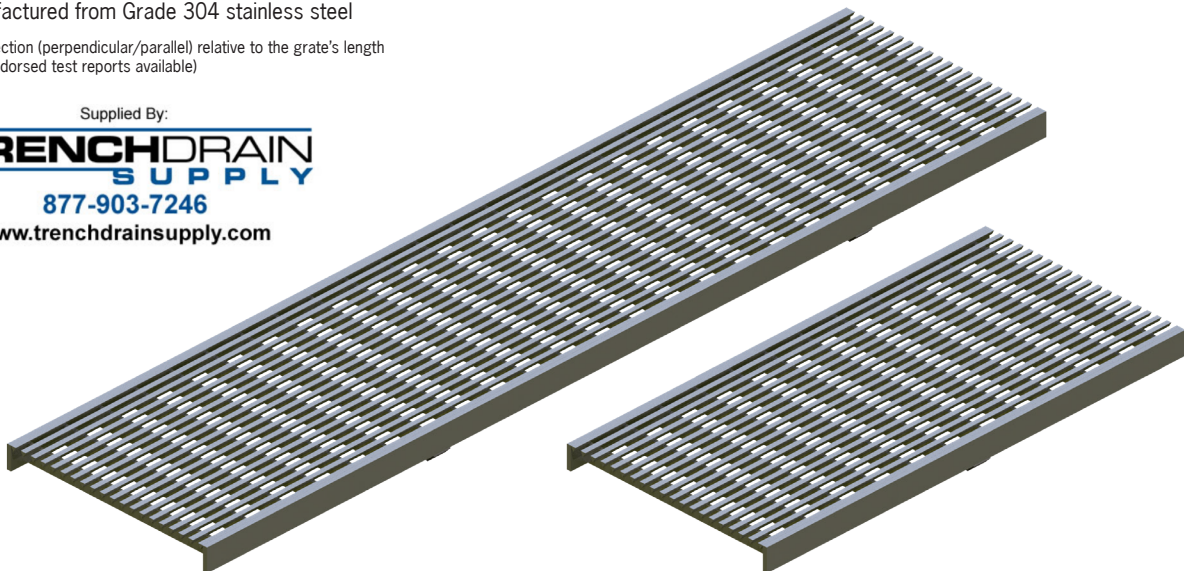
Product Features

- B** Certified to AS 3996 Load Class B (80kN) (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: P3 – Slip resistance classification for Wet Pendulum Test
AS 4586: C/B¹ - Slip resistance classification for Wet-Barefoot Inclining Platform Test
AS 4586: R10/R10¹ - 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

- Raised mechanical nodes for tread durability
- No end bars for visual continuity
- **DrainLok** barless and boltless locking system
- Suitable for use with K200, KS200, H200K, H200KS channels
- Manufactured from Grade 304 stainless steel

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

Supplied By:



Specifications

The grate shall be ACO Type 647D Stainless Wedgewire Heelsafe® Anti-Slip grate with **DrainLok** barless and boltless locking system as manufactured by ACO. This grate has an overall width of 238mm and overall length of 1000mm (Type 647D) and 500mm (Type 648D). Slot widths measure at a maximum of 6mm.

Materials & Design

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

- Raised mechanical nodes for tread durability
- No end bars for visual continuity
- Manufactured from Grade 304 stainless steel
- Certified to AS 3996 Load Class B (80kN)²
- AS 4586: P3 – Slip resistance classification for Wet Pendulum Test²
- AS 4586: C/B¹ - Slip resistance classification for Wet-Barefoot Inclining Platform Test²
- AS 4586: R10/R10¹ – 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 114,950mm² per metre of grate/57,475mm² 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

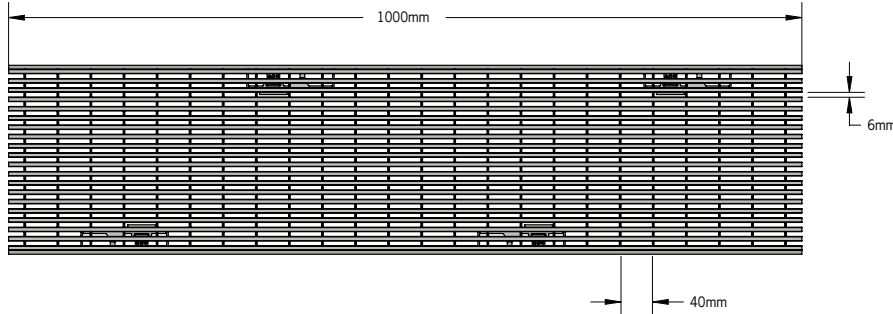


ACO DRAIN®

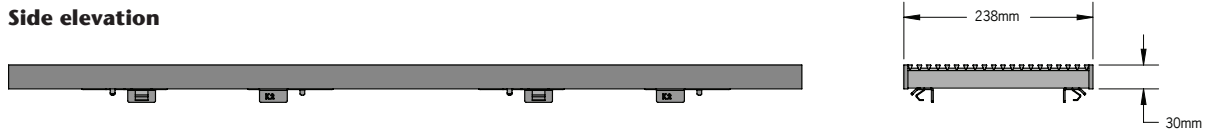
Type 647D/648D Stainless Wedgewire Heelsafe® Anti-Slip grate



Plan view

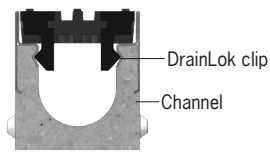


Side elevation



Description	Part No.	Length (mm)	Width (mm)	Weight (kg)
DrainLok grate				
Type 647D Stainless Wedgewire Heelsafe® Anti-Slip	142219	1000	238	7.5
Type 648D Stainless Wedgewire Heelsafe® Anti-Slip	142220	500	238	3.7
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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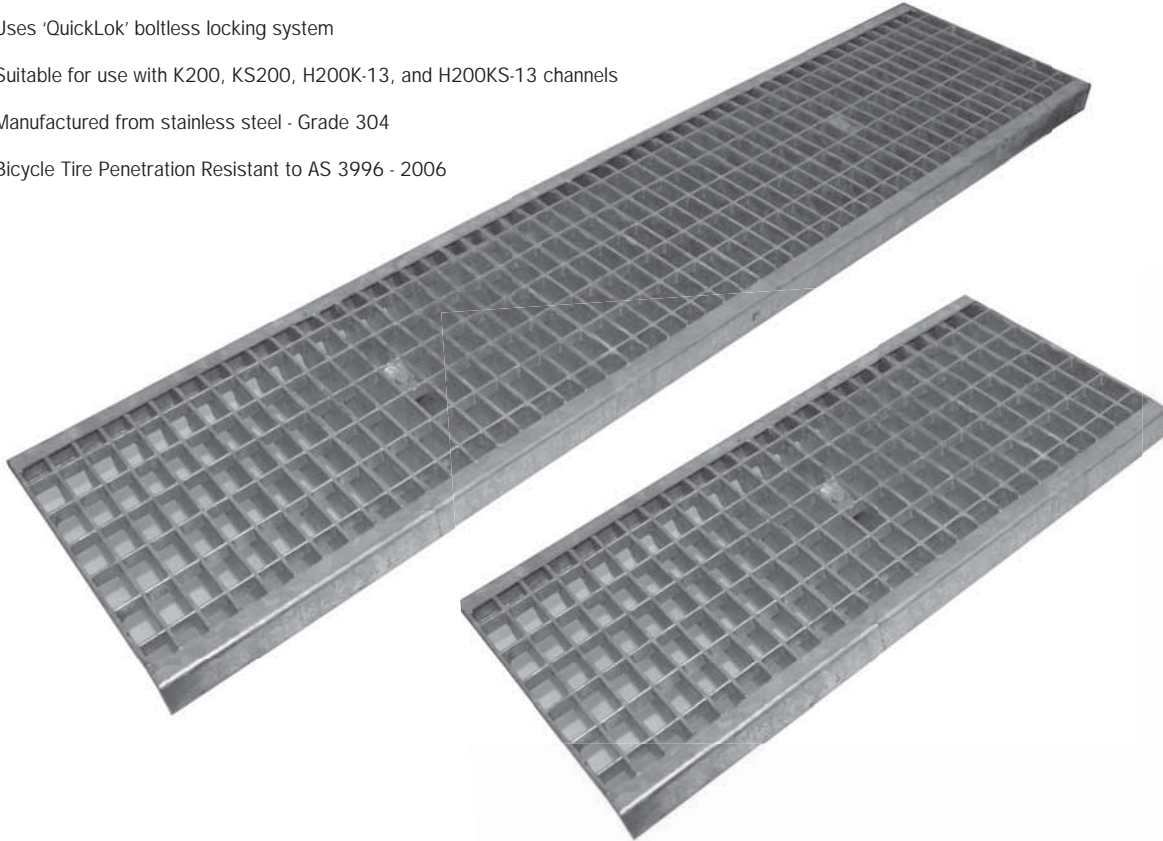


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Product Features

- Certified to EN 1433 Load Class C - 56,000 lbs - 1,162 psi
- Uses 'QuickLok' boltless locking system
- Suitable for use with K200, KS200, H200K-13, and H200KS-13 channels
- Manufactured from stainless steel - Grade 304
- Bicycle Tire Penetration Resistant to AS 3996 - 2006



ACO Specification Information

Specifications

General

The surface drainage system shall be ACO Drain K200, KS200, H200K-13, and H200KS-13, channels* complete with ACO Type 630Q/631Q mesh stainless steel grate with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or similar approved.

Materials

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

- Independently certified to meet Load Class C to EN 1433 - 56,000 lbs - 1,162 psi
- Grade 304 stainless steel
- Intake area of 128sq. in. (825.80 cm²) per half meter of grate & 256 sq in. (1651.6 cm²) per meter grate

The overall width of 9.37" (238mm) and overall length of 39.37" (1000mm) (Type 630Q) and overall length of 19.69" (500mm) (Type 631Q). Slots measure at a maximum of 1.22" (31mm).

Installation

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

* delete as appropriate

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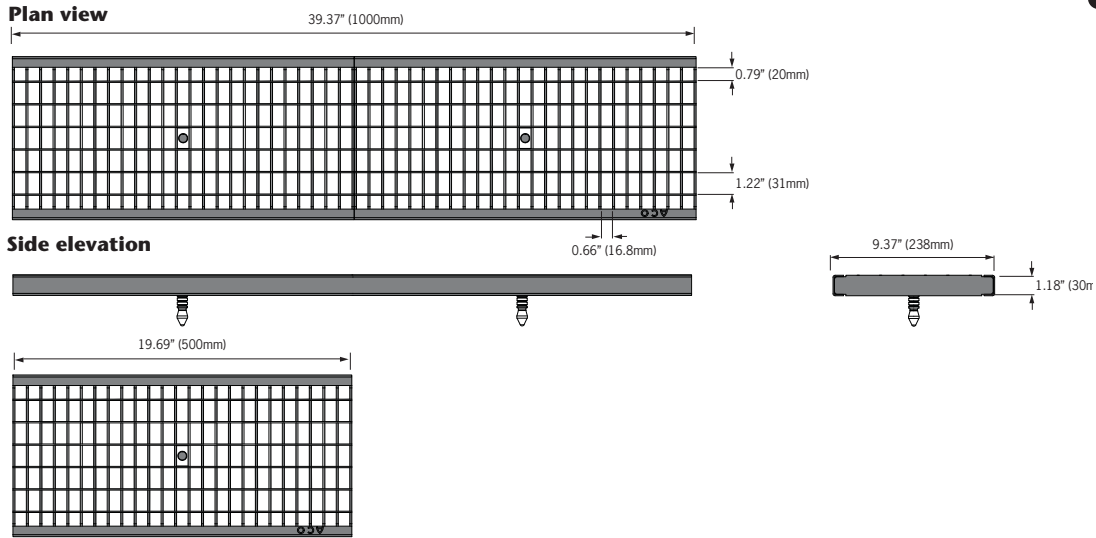
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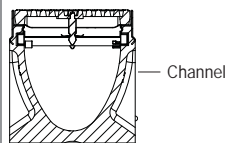
ACO DRAIN

Type 630Q/631Q Mesh stainless steel grate



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
QuickLok grate				
Type 630Q Mesh stainless steel grate	16032	39.37 (1000)	9.41 (239)	31.7
Type 631Q Mesh stainless steel grate	16033	19.69 (500)	9.41 (239)	16.1
QuickLok locking bar	10457	-	-	0.5
QuickLok grate removal tool	01318	-	-	0.3

'QuickLok' locking mechanism



Grate

'QuickLok' locking stud (fixed to grate)

'QuickLok' locking spring (fixed to locking bar)

'QuickLok' locking bar (side and plan views)

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.

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May 13/1

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