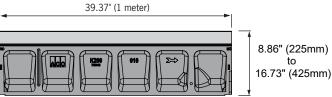
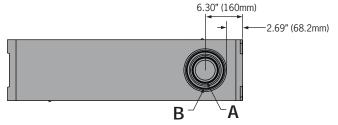
KlassikDrain - KS200 Stainless steel edge rail channel system

One meter channel

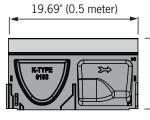




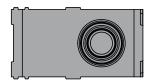
Knock-outs included on every 5th channel

10.24" (260mm) 7.87" (200mm) 7.87" (200mm) 15.75" (400mm)

Half meter channel



10.83" (275mm) KS2-0103 12.80" (325mm) KS2-0203 14.76" (375mm) KS2-0303 16.73" (425mm) KS2-0403



Type 902G In-line catch basin

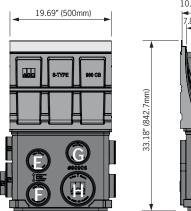
Outlet flow rates

Outlet

Α

В

В



Product

Bottom outlet - KS2-00

Bottom outlet -KS2-00

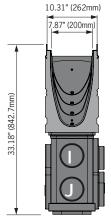
Type KS2-902G

Type KS2-902G

Type KS2-902G

Bottom outlet - KS2-040

Bottom outlet - KS2-040



Outlet size Invert

Depth

7.87

15.75

7.87

15.75"

30.32

23.19

29.90'

640

251

288

1.43

0.56

0.64

(Sch. 40)

4" round

4" round

6" round

6" round

6" round

4" round

4" round

GPM

153

216

344

486

CFS

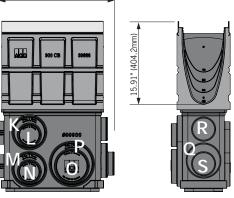
0.34

0.77

1.08

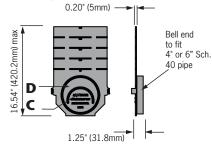
Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.*Catch basin flow rates are without trash bucket - using trash 0.48 bucket reduces flow.

22.67" (575.8mm)



Total capacity = 19 gallons

End Cap

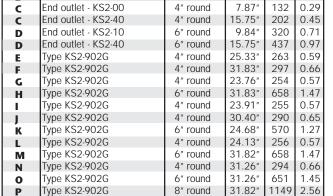


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ACO DRAIN

KlassikDrain - KS200 Stainless steel edge rail channel system



		Inve	rt		
Description	Part No.	Inches®	mm [©]	Weight	
				Lbs.	
K2-00 Neutral channel - 39.37" (1m) [©]	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)®	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) ¹⁾	75410	9.84	250	93.5	
K2-010 Neutral channel - 39.37" (1m) [©]	75443	9.84	250	93.5	
K2-0103 Neutral channel - 19.69" (0.5m) ^①	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) [©]	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) [©]	75420	11.81	300	104.5	
K2-020 Neutral channel - 39.37" (1m) [©]	75445	11.81	300	104.5	
K2-0203 Neutral channel - 19.69" (0.5m) [®]	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) [©]	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	
KZ-Z / Slopeu Glaffiel - 37.37 (TIII)	73427	13.19	330	112.2	

	Part	Invert		Weight	
Description	No.	Inches [©]	mm ²	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) ^①	75430	13.78	350	115.5	
K2-030 Neutral channel - 39.37" (1m) ¹⁾	75447	13.78	350	115.5	
K2-0303 Neutral channel - 19.69" (0.5m) [®]	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) ¹⁰	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) ¹⁰	75440	15.75	400	126.5	
K2-040 Neutral channel - 39.37" (1m) ¹⁾	75449	15.75	400	126.5	
K2-0403 Neutral channel - 19.69" (0.5m) $^{\odot}$	75450	15.75	400	77.0	
K2-901G In-line catch basin - 19.69" (0.5m) [®]	94612	32.81	833.3	68.0	
K2-621G catch basin - 19.69" (0.5m) [®]	94621	37.33	948.1	91.0	
K2-631G catch basin - 19.69" (0.5m) [®]	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

Genera

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.

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	YES
Salt proof	YES
Dilute acid and alkali resistant	YES

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

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.

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.

ACO Polymer Products, Inc.

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Type 660D 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) $^{\scriptscriptstyle 1}$ compliant for wheelchair and walking cane safety



AS 3996 (Clause 3.3.7) compliant for bicycle tyre penetration resistance

- Recesses in the edge rail fit around 'anti-shunt' lugs on the grate to prevent longitudinal movement
- . DrainLok barless and boltless locking system
- Suitable for use with K200, KS200, H200K, H200KS channels
- Manufactured from ductile iron to AS 1831 Grade 500-7
- ¹ Dominate direction of travel parallel to the grate's length





Specifications

The grate shall be ACO Type 660D Iron Slotted grate with **DrainLok** barless and boltless locking system as manufactured by ACO. This grate has an overall width of 238mm and overall length of 500mm. Slot widths measure at a maximum of 12mm.

Materials & Design

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

- · Recesses in the edge rail fit around 'anti-shunt' lugs on the grate to prevent longitudinal movement
- 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 44,160mm² per half metre of grate
- ¹ NATA endorsed test reports available
- ² Dominate direction of travel parallel to the grate's length

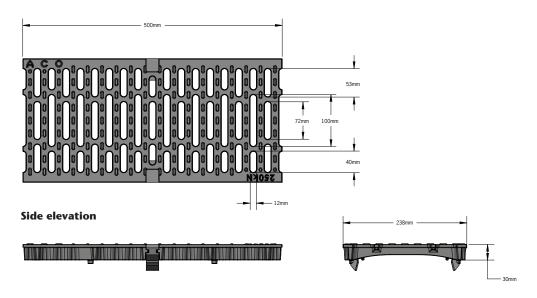
For the specification of the ACO Drain channel system selected, click: http://www.acodrain.com.au/product-support



Type 660D Iron Slotted grate

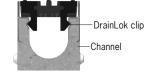


Plan view



Description	Part No.	Length (mm)	Width (mm)	Weight (kg)
DrainLok grate Type 660D Iron Slotted Grate removal tool	142177 01318	500	238	12.0 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.



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Intormatio CO Specifica

This grate is part of ACO's

Heelsafe® Anti-Slip range For more information visit www.heelsafe.com.au

Type 676D Iron Intercept Heelsafe® Anti-Slip grate

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

- Recesses in the edge rail fit around 'anti-shunt' lugs on the grate to prevent longitudinal movement
- . DrainLok barless and boltless locking system
- Suitable for use with K200, KS200, H200K, H200KS 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)



Specifications

The grate shall be ACO Type 676D Iron Intercept 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 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:

- Recesses in the edge rail fit around 'anti-shunt' lugs on the grate to prevent longitudinal movement
- 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 25,300mm² per half metre of grate
- $^{\rm 1}$ 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



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Type 676D Iron Intercept Heelsafe® Anti-Slip grate

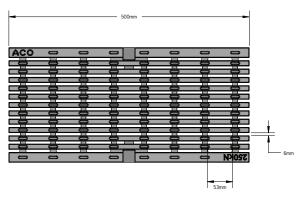






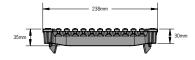






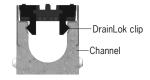






Description	Part No.	Length (mm)	Width (mm)	Weight (kg)
DrainLok grate Type 676D Iron Intercept Heelsafe® Anti-Slip Grate removal tool	142173 01318	500	238	10.0 0.1

'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.



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Intormatio CO Specifica

This grate is part of ACO's

Heelsafe® Anti-Slip range. For more information visit www.heelsafe.com.au

Type 680D Iron Wave Heelsafe® Anti-Slip grate

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: P4 – Slip resistance classification for Wet Pendulum Test AS 4586: R10/R10¹ - Slip resistance classification for Oil-Wet Inclining Platform Test



AS 1428.1 (Clause 4.4b) compliant for wheelchair and walking cane safety



AS 3996 (Clause 3.3.7) compliant for bicycle tyre penetration resistance

- · Continuous wave pattern
- Recesses in the edge rail fit around 'anti-shunt' lugs on the grate to prevent longitudinal movement
- DrainLok barless and boltless locking system
- Suitable for use with K200, KS200, H200K, H200KS channels
- Manufactured from ductile iron to AS 1831 Grade 500-7



Specifications

The grate shall be ACO Type 680D Iron Wave **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 500mm. Slot widths measure at a maximum of 7mm.

Materials & Design

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

- Continuous wave pattern
- Recesses in the edge rail fit around 'anti-shunt' lugs on the grate to prevent longitudinal movement
- Manufactured from ductile iron to AS 1831 Grade 500-7
- Certified to AS 3996 Load Class D (210kN)²
- AS 4586: P4 Slip resistance classification for Wet Pendulum Test²
- AS 4586: R10/R10¹ Slip resistance classification for Oil-Wet Inclining Platform Test²
- Meets AS 1428.1 (Clause 4.4b); AS 3996 (Clause 3.3.6 & 3.3.7); ASME A112.6.3 (Section 7.12)
- Intake area of 37,880mm² per half metre of grate
- ¹ Test direction (perpendicular/parallel) relative to the grate's length
- ² NATA endorsed test reports available

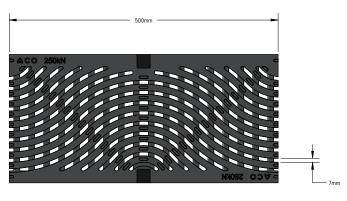
For the specification of the ACO Drain channel system selected, click: http://www.acodrain.com.au/product-support



Type 680D Iron Wave Heelsafe® Anti-Slip grate







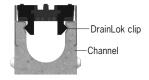






Description	Part No.	Length (mm)	Width (mm)	Weight (kg)
DrainLok grate Type 680D Iron Wave Heelsafe® Anti-Slip Grate removal tool	142462	500	238	12.7
	01318	-	-	0.1

'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.



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Type 661Q Ductile iron slotted grate

$\phi \in$



- Certified to EN 1433 Load Class E 135,000 lbs. 2,788 psi
- Uses 'QuickLok' boltless locking system
- Suitable for use with K200, KS200, H200K-13, and H200KS-13 channels
- Manufactured from ductile iron to ASTM A 536-84 Grade 65-45-12



Specifications

General

The surface drainage system shall be ACO Drain K200, KS200, H200K·13, and H200KS·13 channels* complete with ACO Type 661Q 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 81.89 sq. in. (528.32 cm²) per half meter of grate

The overall width of 9.37" (238mm) and overall length of 19.69" (500mm). Slots measure at a maximum of 3.75" (95.4mm).

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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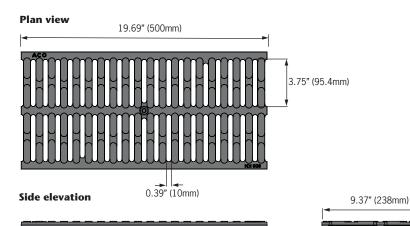
Informatio

Specificatio

Type 661Q Ductile iron slotted grate



1.18" (30mm)



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
QuickLok grate Type 661Q Ductile iron slotted grate QuickLok locking bar QuickLok grate removal tool	10351	19.69 (<i>500</i>)	9.41 (<i>239</i>)	30.8
	10457	-	-	0.5
	01318	-	-	0.3

'QuickLok' locking mechanism ACO 'QuickLok' is a patented boltless locking system, grates are removed and replaced with the Channel 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 Grate spring clip in the locking bar. 'QuickLok' locking stud (fixed to $\ensuremath{\mathsf{grate}}\xspace)$ The 'QuickLok' stud is made from 'QuickLok' locking stainless steel and high density spring (fixed to locking bar) nylon, the locking bar and clip are stainless steel, for use in both 'QuickLok' locking general purpose and corrosive bar (side and plan environments.



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Type 678Q Longitudinal ductile iron grate (ADA)









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 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



Specifications

General

The surface drainage system shall be ACO Drain K200, KS200, H200K-13, and H200KS-13, channels* complete with ACO Type 678Q longitudinal ductile iron 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 C to EN 1433 - 56,000 lbs - 1,162 psi
- Ductile iron to ASTM A 536-84 Grade 65-45-12
- Intake area of 60.6 sq. in. (390.97 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).

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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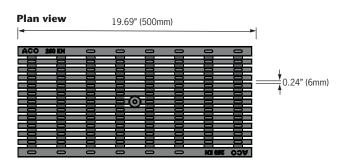
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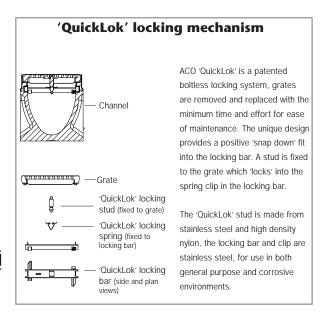
Type 678Q Longitudinal ductile iron grate (ADA)





Side elevation 9.41" (239mm) 1.18" (30mm)

Description	Part No.	Length inches <i>(mm)</i>	Width inches (mm)	Weight lbs.
QuickLok grate Type 678Q Ductile iron longitudinal grate QuickLok locking bar QuickLok grate removal tool	95038	19.69 (<i>500</i>)	9.41 (<i>239</i>)	22.0
	10457	-		0.5
	01318	-		0.3





ACO Polymer Products, Inc. Northeast Sales Office

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Chardon, OH 44024 Tel: (440) 285-7000 Toll free: (800) 543-4764 Fax: (440) 285-7005

West Sales Office

P.O. Box 12067 Casa Grande, AZ 85130 Tel: (520) 421-9988 Toll Free: (888) 490-9552 Fax: (520) 421-9899

Southeast Sales Office

4211 Pleasant Road Fort Mill, SC 29708 Toll free: (800) 543-4764 Fax: (803) 802-1063

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Type 611Q/613Q Perforated galvanized steel grate (ADA)





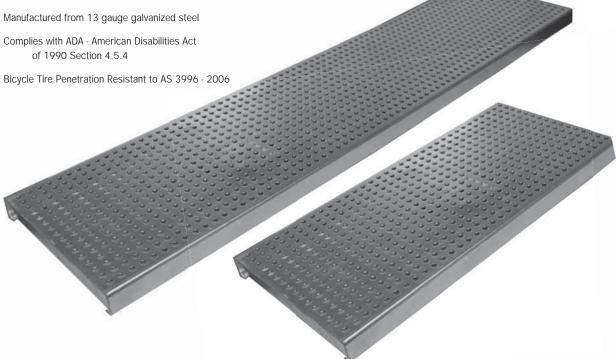






Product Features

- 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



Specifications

The surface drainage system shall be ACO Drain K200, KS200, H200K-13, and H200KS-13, channels* complete with ACO Type 611Q/613Q perforated galvanized steel grate (ADA) 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
- 13 gauge galvanized steel
- Intake area of 22.3 sq. in. (143.87 cm²) per half meter of grate

The overall width of 9.41" (239mm) and overall length of 39.37" (1000mm) (Type 611Q) and overall length of 19.69" (500mm) (Type 613Q). Perforations measure 0.25" (6.4mm) in diameter.

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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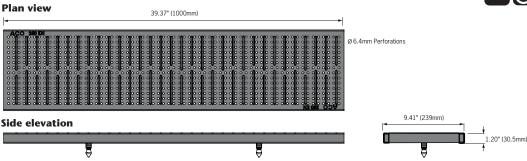
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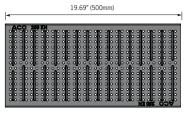
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Type 611Q/613Q Perforated galvanized steel grate (ADA)







Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
QuickLok grate				
Type 611Q Perforated galvanized steel grate	98962	39.37 <i>(1000)</i>	9.41 (239)	21.0
Type 613Q Perforated galvanized steel grate	98961	19.69 (<i>500</i>)	9.41 (239)	10.5
QuickLok locking bar	10457	-		0.5
QuickLok grate removal tool	01318	-	-	0.3

ACO 'QuickLok' is a patented boltless locking system, grates are removed and replaced with the Channel 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 Grate spring clip in the locking bar.

'QuickLok' locking stud (fixed to grate)

'QuickLok' locking

'QuickLok' locking

bar (side and plan

spring (fixed to locking bar)

'QuickLok' locking mechanism

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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