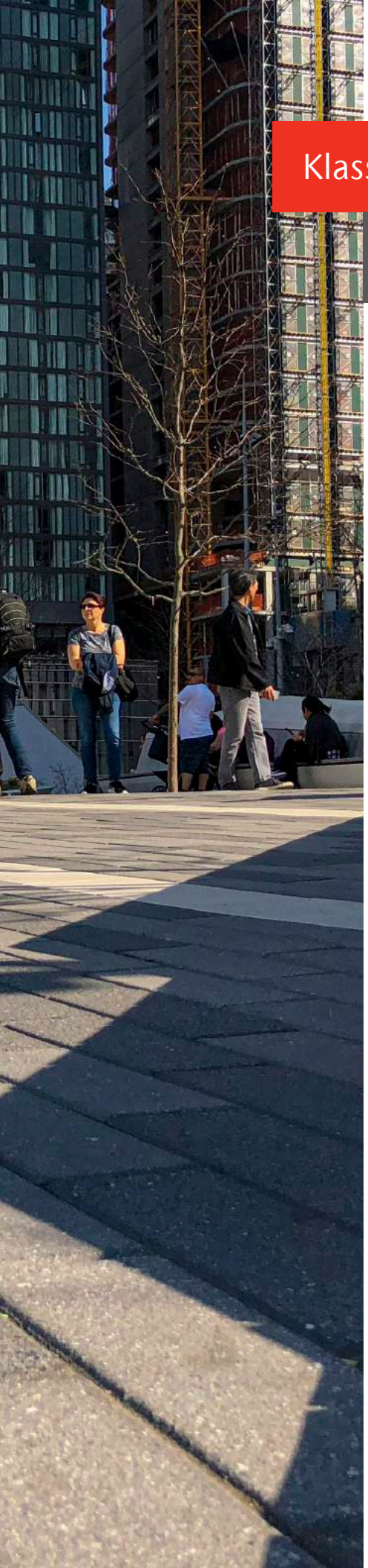


# KlassikDrain

## General Purpose Trench Drains

KlassikDrain is the market's most widely used modular trench drain system. Developed to offer edge protection to the channels and provide a discreet look that highlights the grate style only. KlassikDrain offers a wide range of grates in many styles, materials, finishes and load categories to provide the ultimate plug and play trench drain system.

# Features & Benefits

## Wide Choice of Grates

In various materials and styles (including ADA compliant) for applications from Load Class A to Load Class E. See page 13.

## DrainLok & QuickLok®

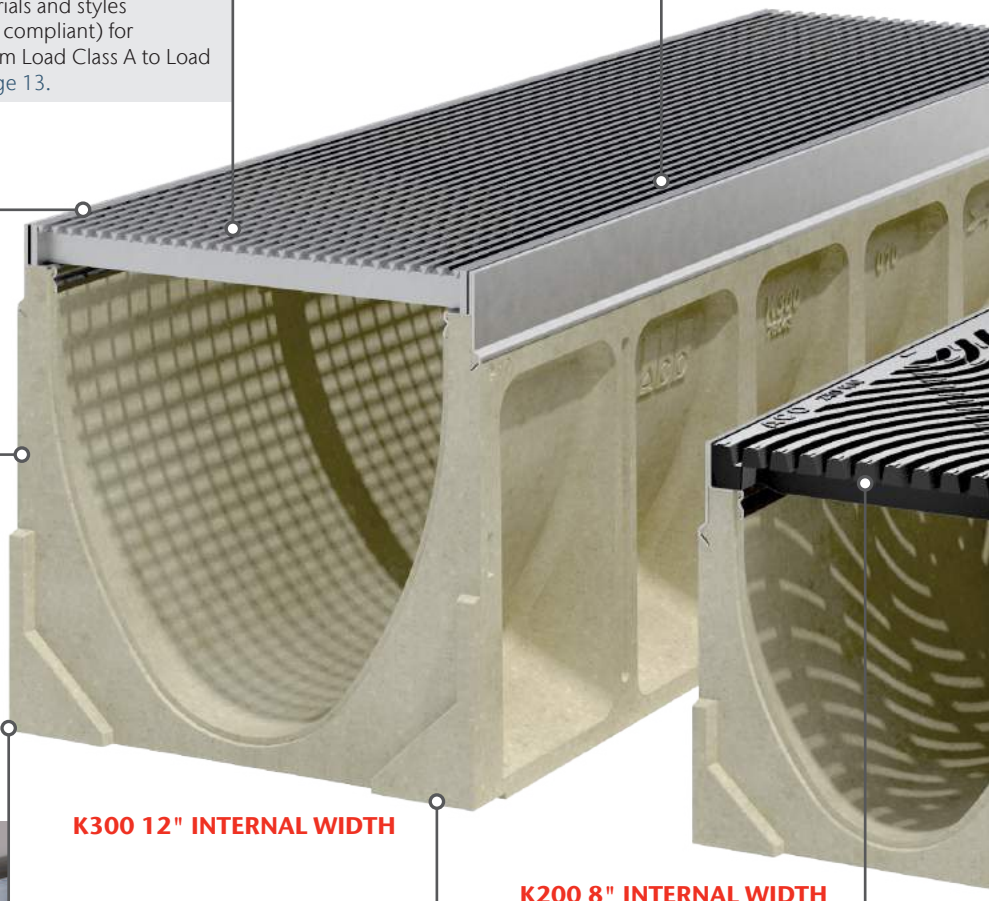
Patented, boltless locking systems provide quick fitting and removal of grates. Helps reduce installation/ maintenance time and cost.

## Integral Steel Edge Rail

Provides additional strength and protects channel body from damage. Stainless steel edge rail also available.

## Polymer Concrete

A durable, yet lightweight material made from polyester (a resin binder) reinforced by mineral aggregates and fillers. It provides up to four times the compressive strength of cement concrete.
See page 170 for material properties.



**K300 12" INTERNAL WIDTH**

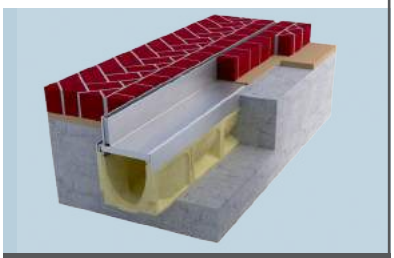
**K200 8" INTERNAL WIDTH**

## Interconnecting End Profiles

Allow easy and effective joining of channels. Appropriate sealant can be used to create a sealed joint.

## Knockouts

Included on every 5th channel to allow vertical evacuation of the system along the run. See product pages for sizes for each system.



## Brickslot 100 & 200

A discreet drainage solution for use with brick or stone pavers. Available as standard, Heel-resistant and Twinslot versions. See pages 39 and 57.

## Anti-Shunt Lugs

Protrusions in grate fit into recesses on the edge rail to prevent longitudinal movement.

## Profiled Side Walls

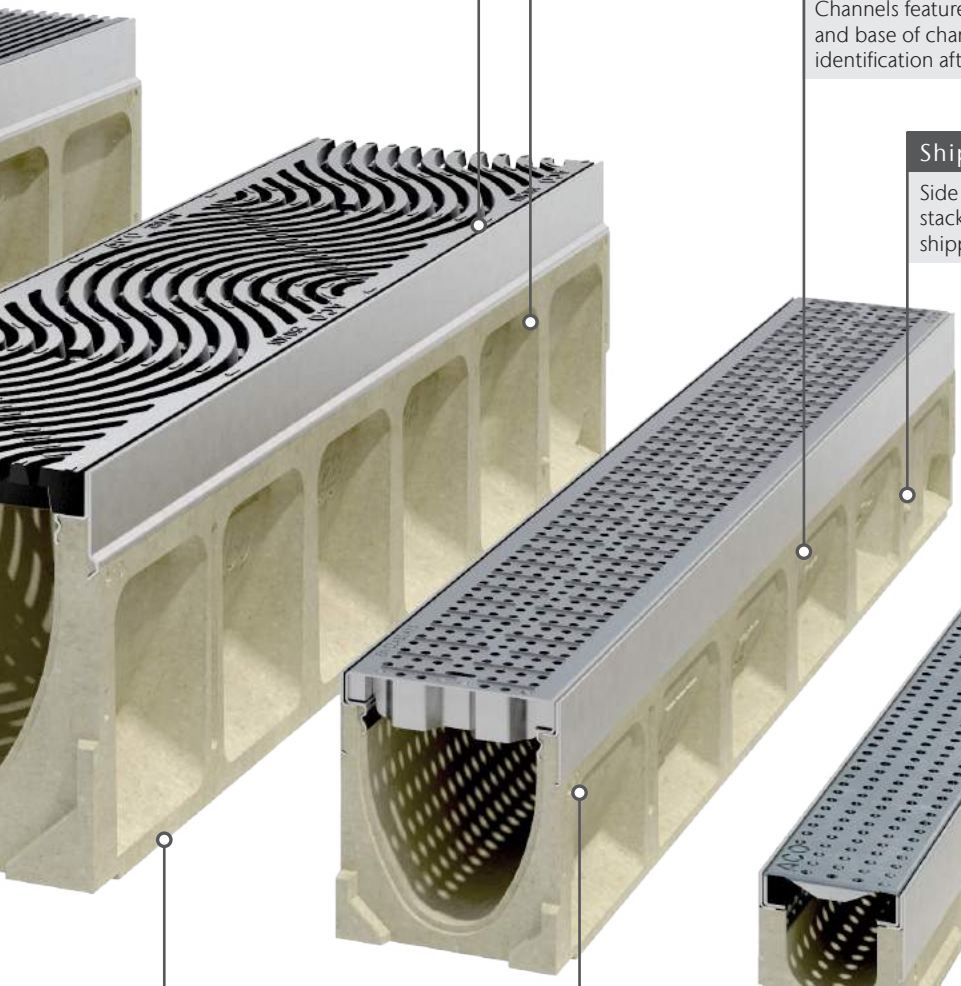
Strengthening pillars and frost keys provide channel body strength and mechanical keying to surrounding concrete.

## Channel Identification

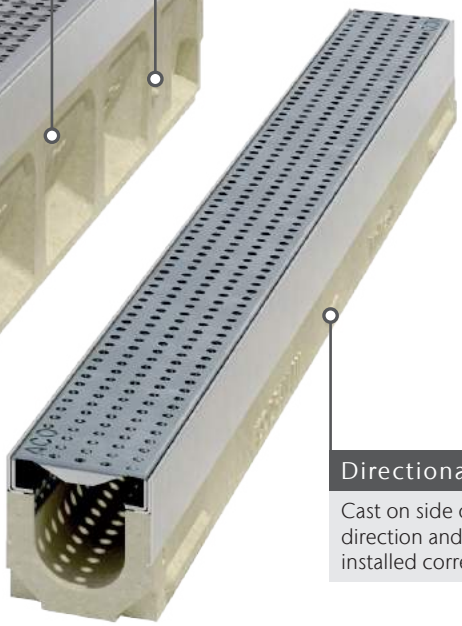
Channels feature numbering on sidewalls and base of channel (to allow easy identification after concrete encasement).

## Shipping Gipple/Groove

Side interlocking feature ensures safer stacking of channels on pallets for shipping and minimizes breakage.



**K100 4" INTERNAL WIDTH**



**K50 2" INTERNAL WIDTH**

## Directional Arrows

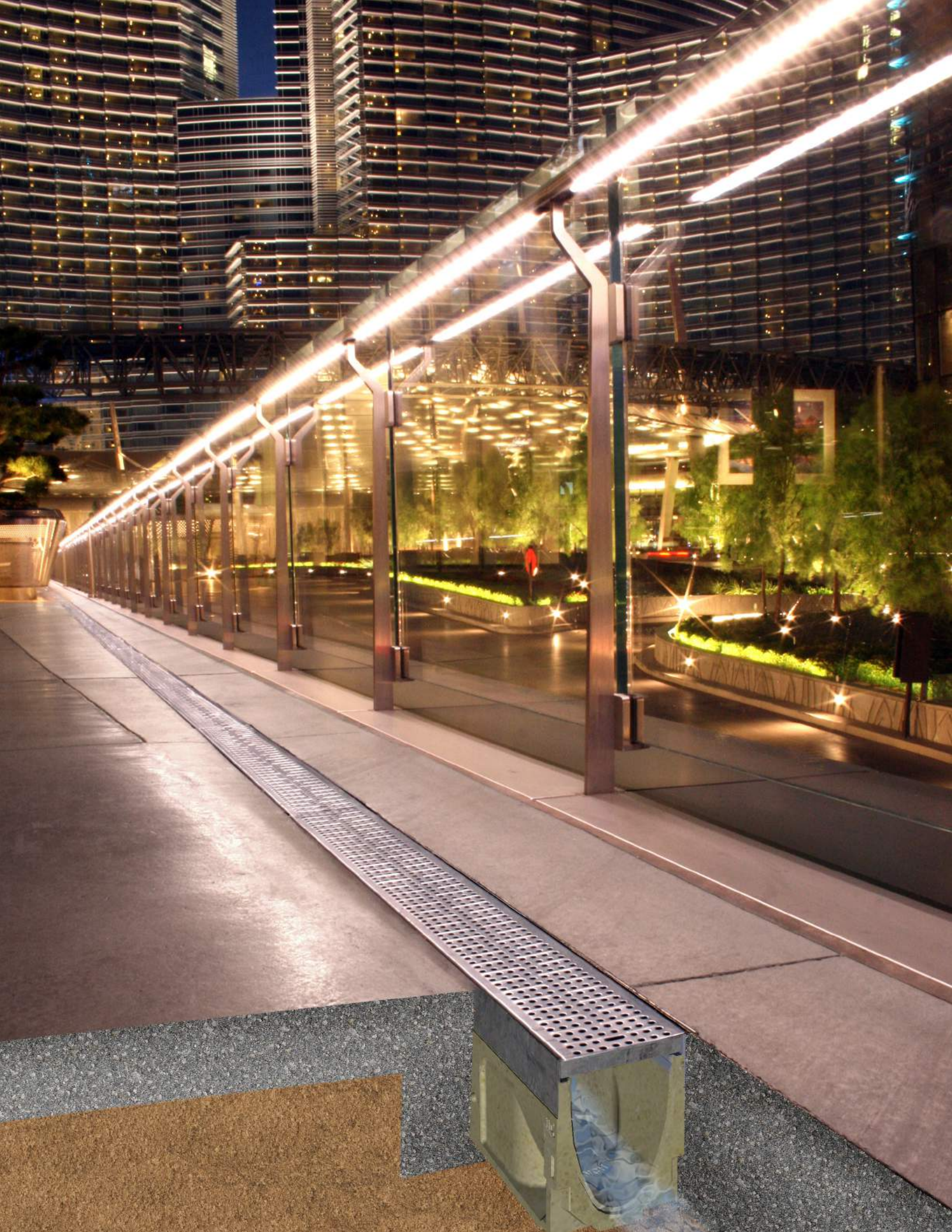
Cast on side of channel indicate flow direction and ensure channels are installed correctly.

## Sloped (0.5%) Channel Units

Meter long units provide 131'-3" continuous slope - equates to 1/17" fall per linear foot. Constant depth units can be used to extend run lengths.

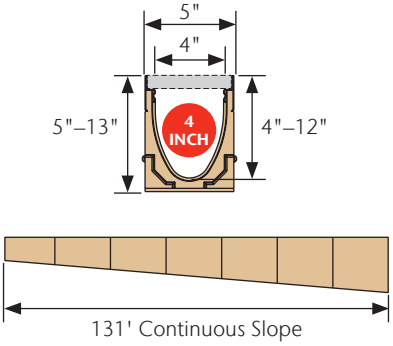
## System Numbering

Each end of the channel indicates the number of the channel that will connect to it.



# KlassikDrain K100/KS100

## 4" Internal Width General Purpose System




K100 is a 4" internal width, general purpose system with galvanized steel edge rail and the widest choice of grates in different materials and slot styles up to Load Class E (134,885 lbs) featuring either patented DrainLok or QuickLok® boltless locking systems.

KS100 is the same system, but the edge rail is grade 304 stainless steel. KS100 should be used where increased aesthetics are required or where increased corrosion resistance is required.

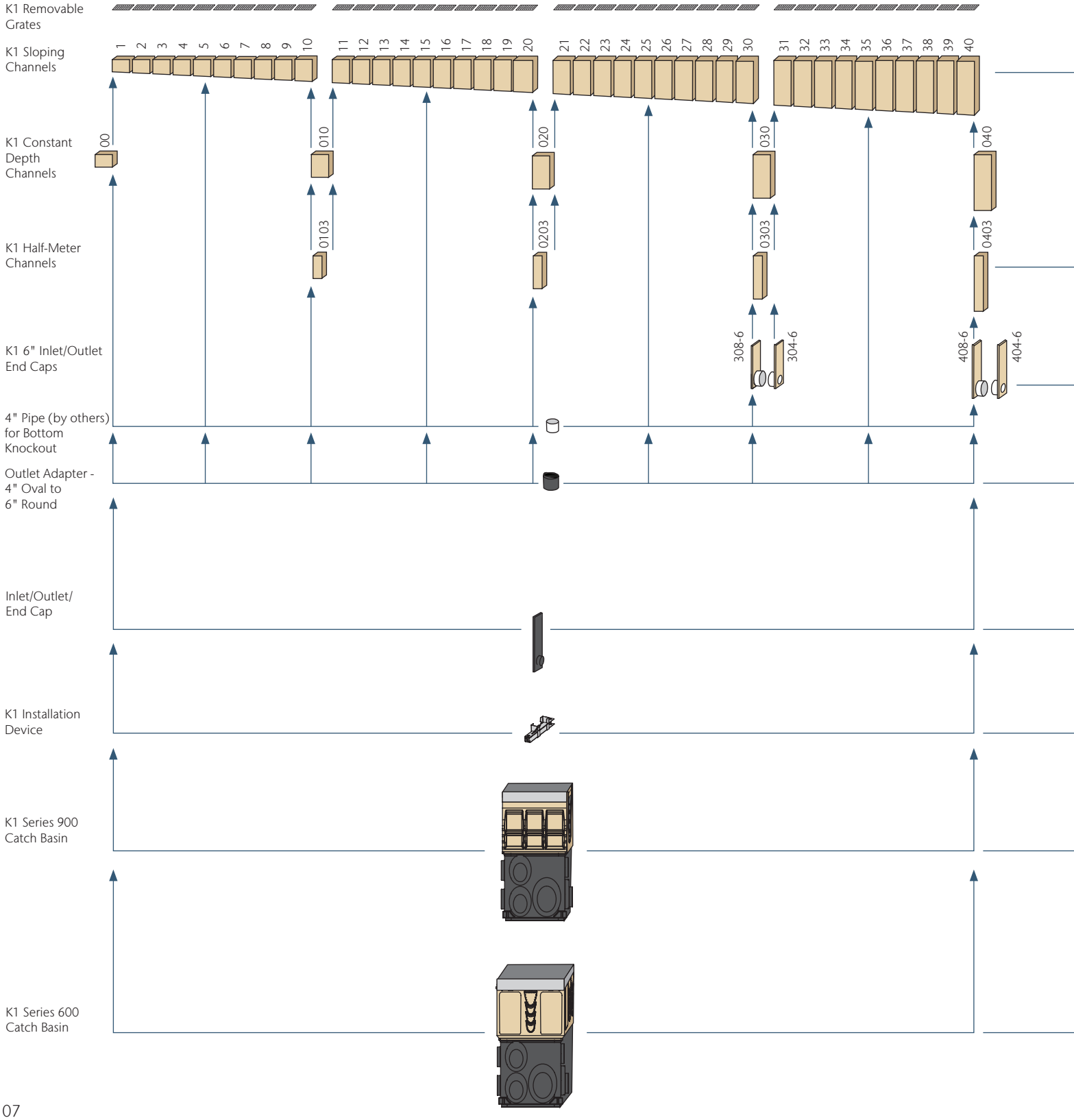
**Typical Applications:**

- Parking lots & garages
- Shopping malls
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

### KLASSIKDRAIN K100/KS100 SELECTION CRITERIA

| | |
|---|---|
| A ▶▶▶▶ E | Light to industrial duty loads |
| | Product can be used towards LEED & EPA requirements |
| | Resistant to many everyday chemicals |
| | Multiple grate options to meet legal requirements |
| SAFE | Multiple grate options to meet design requirements |
| | General, everyday hydraulic capacity |
| | Constant depth and/or sloped depth channels |

# K100/KS100 System Layout




*Note: K1 Universal Inlet/Outlet/End Cap, Installation Devices and Catch Basins can be placed at either end of any channel within the system.*

## K1 Meter Channels - Sloping & Constant Depth

0.5% sloped channels in meter lengths and 40 depths which connect to create 40 meter (131'-2") continuously sloping run. Available with either galvanized or stainless steel edge rail.

Constant depth channels available in 5 depths. Can be used to create non-sloped runs, or inserted in sloped runs to increase length.

Bottom knockouts on all constant depths and 5, 10, 15, 20, 25, 30, 35, 40 channels.

## K1 Half-Meter Channels

Constant depth channels in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels. Available with either galvanized or stainless steel edge rail.

## K1 6" SCH 40 Inlet/Outlet End Cap

6" SCH 40 plain end plastic pipe; oval to round adapter cast into polymer concrete end cap and available in two heights. Solvent weld to coupler.
*Note: These end caps cannot be cut to height, and fit only at positions shown in layout diagram.*

## Outlet Adapter - 4" Oval to 6" Round

Oval to round plastic adapter for bottom drill-out on 4" polymer concrete channels. SCH 40 6" plain end can be solvent welded to underground pipe system. Seal to channel using appropriate flexible sealant.

## K1 Universal Inlet/Outlet/End Cap

Fits all channels and manufactured from ABS plastic to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. 4" bell end connection to SCH 40 pipe. Seal using PVC-ABS cement.
*Note: ACO recommends removal of unused sections of bell end to ensure adequate pavement material coverage.*

## K1 Installation Device

Fits molded recesses on body of channel. Provides height and joint alignment - a sliding clamp locks the two channels together. Bolt to rebar on either side of channel to hold channels in place during concrete pour. Not reusable; it is encased within concrete pour.

## K1 Series 900 In-Line Catch Basins

Two-part in-line catch basin with either a plastic base with 4", 6" and 8" drill-outs for pipe connection or a polymer concrete base. Supplied with plastic trash bucket. Options include an in-line or side foul air trap. Available with either galvanized or stainless steel edge rail.

Any channel can be connected into the catch basin by removing the end wall to the correct height with a box cutter. Cut-out guides provided for connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends. One blanking end plate supplied with each in-line catch basin.

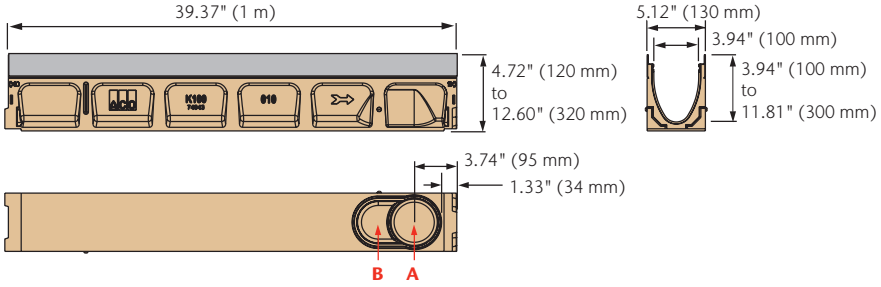
## K1 Series 600 Catch Basins

Two-part catch basin; bases have either a plastic base with 4", 6" and 8" drill-outs for pipe connection or a polymer concrete base. Supplied with plastic trash bucket. Optional riser available for increased depth. Available with either galvanized or stainless steel edge rail.

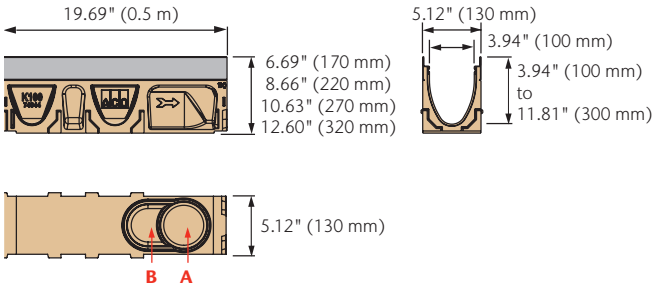
Any channel can be connected to catch basin by removing end/side wall to correct height. Drill-outs guide connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends.

# Dimensions & Outlet Flow Rates

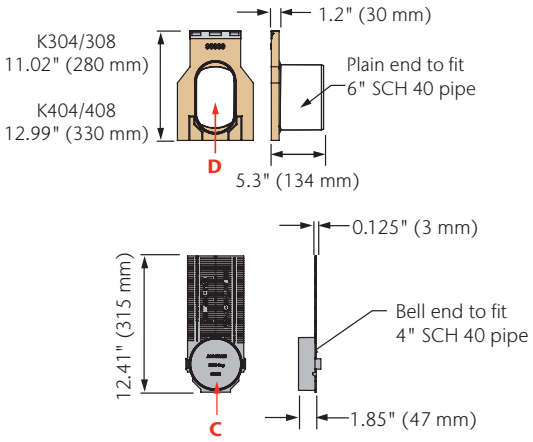
## K1 Meter Channels



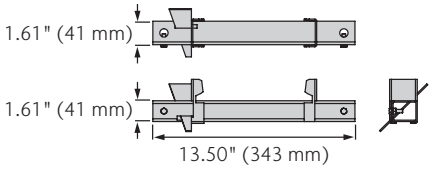

## K1 Half-Meter Channels




## K1 Universal Inlet/Outlet/End Cap




## K1 Installation Device




## OUTLET FLOW RATES

| Channel Outlet | Channel | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|---|
| A | K1-00 | 4" round | 3.94 | 108 | 0.24 |
| | K1-40 | 4" round | 11.81 | 187 | 0.42 |
| B | K1-00 | 6" oval | 3.94 | 177 | 0.39 |
| | K1-40 | 6" oval | 11.81 | 306 | 0.68 |
| C | K1-20 | 4" round | 7.87 | 132 | 0.29 |
| | K1-40 | 4" round | 11.81 | 171 | 0.38 |
| D | K1-30 | 6" oval | 9.84 | 233 | 0.52 |
| | K1-40 | 6" oval | 11.81 | 264 | 0.59 |

*Note: These are pipe flow rates at specified outlet, NOT channel flow rates.*

# K100/KS100 Parts

| | Part No. | | Invert Depth | | | | Overall Depth | | | | Volume | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K100 | KS100 | in | | mm | | in | | mm | | gal | lbs |
| | | | female | male | female | male | female | male | female | male | | |
| **K1-00 Constant Depth Channel - 39.37" (1 m)*** | **74041** | **74441** | **3.94** | **3.94** | **100** | **100** | **4.72** | **4.72** | **120** | **120** | **1.96** | **28.1** |
| K1-1 Sloped Channel - 39.37" (1 m) | **74001** | **74401** | 3.94 | 4.13 | 100 | 105 | 4.72 | 4.92 | 120 | 125 | 1.99 | 28.1 |
| K1-2 Sloped Channel - 39.37" (1 m) | **74002** | **74402** | 4.13 | 4.33 | 105 | 110 | 4.92 | 5.12 | 125 | 130 | 2.04 | 28.9 |
| K1-3 Sloped Channel - 39.37" (1 m) | **74003** | **74403** | 4.33 | 4.53 | 110 | 115 | 5.12 | 5.31 | 130 | 135 | 2.13 | 29.7 |
| K1-4 Sloped Channel - 39.37" (1 m) | **74004** | **74404** | 4.53 | 4.72 | 115 | 120 | 5.31 | 5.51 | 135 | 140 | 2.23 | 30.5 |
| K1-5 Sloped Channel - 39.37" (1 m)* | **74005** | **74405** | 4.72 | 4.92 | 120 | 125 | 5.51 | 5.71 | 140 | 145 | 2.33 | 31.3 |
| K1-6 Sloped Channel - 39.37" (1 m) | **74006** | **74406** | 4.92 | 5.12 | 125 | 130 | 5.71 | 5.91 | 145 | 150 | 2.43 | 32.1 |
| K1-7 Sloped Channel - 39.37" (1 m) | **74007** | **74407** | 5.12 | 5.31 | 130 | 135 | 5.91 | 6.10 | 150 | 155 | 2.54 | 32.9 |
| K1-8 Sloped Channel - 39.37" (1 m) | **74008** | **74408** | 5.31 | 5.51 | 135 | 140 | 6.10 | 6.30 | 155 | 160 | 2.65 | 33.7 |
| K1-9 Sloped Channel - 39.37" (1 m) | **74009** | **74409** | 5.51 | 5.71 | 140 | 145 | 6.30 | 6.50 | 160 | 165 | 2.75 | 34.5 |
| K1-10 Sloped Channel - 39.37" (1 m)* | **74010** | **74410** | 5.71 | 5.91 | 145 | 150 | 6.50 | 6.69 | 165 | 170 | 2.86 | 35.3 |
| **K1-010 Constant Depth Channel - 39.37" (1 m)*** | **74043** | **74443** | **5.91** | **5.91** | **150** | **150** | **6.69** | **6.69** | **170** | **170** | **2.85** | **35.3** |
| **K1-0103 Constant Depth Channel - 19.69" (0.5 m)*** | **74044** | **74444** | **5.91** | **5.91** | **150** | **150** | **6.69** | **6.69** | **170** | **170** | **1.43** | **17.0** |
| K1-11 Sloped Channel - 39.37" (1 m) | **74011** | **74411** | 5.91 | 6.10 | 150 | 155 | 6.69 | 6.89 | 170 | 175 | 2.97 | 36.1 |
| K1-12 Sloped Channel - 39.37" (1 m) | **74012** | **74412** | 6.10 | 6.30 | 155 | 160 | 6.89 | 7.09 | 175 | 180 | 3.08 | 36.9 |
| K1-13 Sloped Channel - 39.37" (1 m) | **74013** | **74413** | 6.30 | 6.50 | 160 | 165 | 7.09 | 7.28 | 180 | 185 | 3.19 | 37.7 |
| K1-14 Sloped Channel - 39.37" (1 m) | **74014** | **74414** | 6.50 | 6.69 | 165 | 170 | 7.28 | 7.48 | 185 | 190 | 3.30 | 38.5 |
| K1-15 Sloped Channel - 39.37" (1 m)* | **74015** | **74415** | 6.69 | 6.89 | 170 | 175 | 7.48 | 7.68 | 190 | 195 | 3.42 | 39.3 |
| K1-16 Sloped Channel - 39.37" (1 m) | **74016** | **74416** | 6.89 | 7.09 | 175 | 180 | 7.68 | 7.87 | 195 | 200 | 3.53 | 40.1 |
| K1-17 Sloped Channel - 39.37" (1 m) | **74017** | **74417** | 7.09 | 7.28 | 180 | 185 | 7.87 | 8.07 | 200 | 205 | 3.64 | 40.9 |
| K1-18 Sloped Channel - 39.37" (1 m) | **74018** | **74418** | 7.28 | 7.48 | 185 | 190 | 8.07 | 8.27 | 205 | 210 | 3.75 | 41.7 |
| K1-19 Sloped Channel - 39.37" (1 m) | **74019** | **74419** | 7.48 | 7.68 | 190 | 195 | 8.27 | 8.46 | 210 | 215 | 3.86 | 42.5 |
| K1-20 Sloped Channel - 39.37" (1 m)* | **74020** | **74420** | 7.68 | 7.87 | 195 | 200 | 8.46 | 8.66 | 215 | 220 | 3.98 | 43.4 |
| **K1-020 Constant Depth Channel - 39.37" (1 m)*** | **74045** | **74445** | **7.87** | **7.87** | **200** | **200** | **8.66** | **8.66** | **220** | **220** | **3.97** | **43.4** |
| **K1-0203 Constant Depth Channel - 19.69" (0.5 m)*** | **74046** | **74446** | **7.87** | **7.87** | **200** | **200** | **8.66** | **8.66** | **220** | **220** | **1.98** | **20.5** |
| K1-21 Sloped Channel - 39.37" (1 m) | **74021** | **74421** | 7.87 | 8.07 | 200 | 205 | 8.66 | 8.86 | 220 | 225 | 4.09 | 44.2 |
| K1-22 Sloped Channel - 39.37" (1 m) | **74022** | **74422** | 8.07 | 8.27 | 205 | 210 | 8.86 | 9.06 | 225 | 230 | 4.20 | 45.0 |
| K1-23 Sloped Channel - 39.37" (1 m) | **74023** | **74423** | 8.27 | 8.46 | 210 | 215 | 9.06 | 9.25 | 230 | 235 | 4.32 | 45.8 |
| K1-24 Sloped Channel - 39.37" (1 m) | **74024** | **74424** | 8.46 | 8.66 | 215 | 220 | 9.25 | 9.45 | 235 | 240 | 4.42 | 46.6 |
| K1-25 Sloped Channel - 39.37" (1 m)* | **74025** | **74425** | 8.66 | 8.86 | 220 | 225 | 9.45 | 9.65 | 240 | 245 | 4.54 | 47.4 |
| K1-26 Sloped Channel - 39.37" (1 m) | **74026** | **74426** | 8.86 | 9.06 | 225 | 230 | 9.65 | 9.84 | 245 | 250 | 4.66 | 48.2 |
| K1-27 Sloped Channel - 39.37" (1 m) | **74027** | **74427** | 9.06 | 9.25 | 230 | 235 | 9.84 | 10.04 | 250 | 255 | 4.78 | 49.0 |
| K1-28 Sloped Channel - 39.37" (1 m) | **74028** | **74428** | 9.25 | 9.45 | 235 | 240 | 10.04 | 10.24 | 255 | 260 | 4.89 | 49.8 |
| K1-29 Sloped Channel - 39.37" (1 m) | **74029** | **74429** | 9.45 | 9.65 | 240 | 245 | 10.24 | 10.43 | 260 | 265 | 5.00 | 50.6 |
| K1-30 Sloped Channel - 39.37" (1 m)* | **74030** | **74430** | 9.65 | 9.84 | 245 | 250 | 10.43 | 10.63 | 265 | 270 | 5.11 | 51.4 |
| **K1-030 Constant Depth Channel - 39.37" (1 m)*** | **74047** | **74447** | **9.84** | **9.84** | **250** | **250** | **10.63** | **10.63** | **270** | **270** | **5.10** | **51.4** |
| **K1-0303 Constant Depth Channel - 19.69" (0.5 m)*** | **74048** | **74448** | **9.84** | **9.84** | **250** | **250** | **10.63** | **10.63** | **270** | **270** | **2.55** | **24.0** |
| K1-31 Sloped Channel - 39.37" (1 m) | **74031** | **74431** | 9.84 | 10.04 | 250 | 255 | 10.63 | 10.83 | 270 | 275 | 5.23 | 52.2 |
| K1-32 Sloped Channel - 39.37" (1 m) | **74032** | **74432** | 10.04 | 10.24 | 255 | 260 | 10.83 | 11.02 | 275 | 280 | 5.34 | 53.0 |
| K1-33 Sloped Channel - 39.37" (1 m) | **74033** | **74433** | 10.24 | 10.43 | 260 | 265 | 11.02 | 11.22 | 280 | 285 | 5.45 | 53.8 |
| K1-34 Sloped Channel - 39.37" (1 m) | **74034** | **74434** | 10.43 | 10.63 | 265 | 270 | 11.22 | 11.42 | 285 | 290 | 5.56 | 54.6 |
| K1-35 Sloped Channel - 39.37" (1 m)* | **74035** | **74435** | 10.63 | 10.83 | 270 | 275 | 11.42 | 11.61 | 290 | 295 | 5.68 | 55.4 |
| K1-36 Sloped Channel - 39.37" (1 m) | **74036** | **74436** | 10.83 | 11.02 | 275 | 280 | 11.61 | 11.81 | 295 | 300 | 5.79 | 56.2 |
| K1-37 Sloped Channel - 39.37" (1 m) | **74037** | **74437** | 11.02 | 11.22 | 280 | 285 | 11.81 | 12.01 | 300 | 305 | 5.91 | 57.0 |
| K1-38 Sloped Channel - 39.37" (1 m) | **74038** | **74438** | 11.22 | 11.42 | 285 | 290 | 12.01 | 12.20 | 305 | 310 | 6.02 | 57.9 |
| K1-39 Sloped Channel - 39.37" (1 m) | **74039** | **74439** | 11.42 | 11.61 | 290 | 295 | 12.20 | 12.40 | 310 | 315 | 6.13 | 58.7 |
| K1-40 Sloped Channel - 39.37" (1 m)* | **74040** | **74440** | 11.61 | 11.81 | 295 | 300 | 12.40 | 12.60 | 315 | 320 | 6.25 | 59.5 |
| **K1-040 Constant Depth Channel - 39.37" (1 m)*** | **74049** | **74449** | **11.81** | **11.81** | **300** | **300** | **12.60** | **12.60** | **320** | **320** | **6.24** | **59.5** |
| **K1-0403 Constant Depth Channel - 19.69" (0.5 m)*** | **74050** | **74450** | **11.81** | **11.81** | **300** | **300** | **12.60** | **12.60** | **320** | **320** | **3.12** | **27.5** |
| K1-304-6 6" Inlet Cap | **96839** | **96844** | 9.84 | 9.84 | 250 | 250 | 11.02 | 11.02 | 280 | 280 | - | 5.2 |
| K1-308-6 6" Outlet Cap | **96840** | **96845** | 9.84 | 9.84 | 250 | 250 | 11.02 | 11.02 | 280 | 280 | - | 5.0 |
| K1-404-6 6" Inlet Cap | **96834** | **96846** | 11.81 | 11.81 | 300 | 300 | 12.99 | 12.99 | 330 | 330 | - | 6.0 |
| K1-408-6 6" Outlet Cap | **96836** | **96847** | 11.81 | 11.81 | 300 | 300 | 12.99 | 12.99 | 330 | 330 | - | 5.8 |
| K1 Universal Inlet/Outlet/End Cap | **96822** | | 11.81 | 11.81 | 300 | 300 | 12.40 | 12.40 | 315 | 315 | - | 0.4 |
| K1 Debris Strainer for 4" Bottom Knockout[3] | **93488** | | - | - | - | - | - | - | - | - | - | 0.2 |
| Outlet Adapter - 4" Oval to 6" Round | **95140** | | - | - | - | - | - | - | - | - | - | 1.1 |
| K1 Installation device | **97477** | | - | - | - | - | - | - | - | - | - | 2.8 |
| Grate Removal Tool | **01318** | | - | - | - | - | - | - | - | - | - | 0.3 |
| K1 QuickLok® Locking Bar | **02899** | | - | - | - | - | - | - | - | - | - | 0.1 |

*Notes:*
*1. K100 has a galvanized steel edge rail for general use. KS100 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion resistance is required.*
*2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 35–38.*
*3. Debris strainer details for 4" dia. outlet on page 138.*
*4. See Catch Basin Parts List on page 29.*
**This channel features 4" & 6" bottom knockouts.*

# Catch Basin Assemblies & Part Details

Polymer concrete catch basins can be used as standalone area drains or as the outlet to a trench run. They provide the highest hydraulic output and allow access to the pipe system for maintenance.

Series 900 catch basins are **in-line catch basins** (same width and visually indistinguishable from the trench run) while Series 600 catch basins are 12" wide, providing greater hydraulic output.

## CATCH BASIN LOAD STRENGTH

Catch basins with plastic risers/bases should be used in load classes A–D. For heavy duty applications, ACO recommends using polymer concrete risers and catch basins for load class E/F applications.

## K100/KS100 Catch Basin Parts

| | Part No. | | Volume* | Weight |
|---|---|---|---|---|
| | K100 | KS100 | gal | lbs |
| K1-901 In-Line Catch Basin w/ Plastic Base | **94608** | **94609** | 12.3 | 52.6 |
| K1-906 In-Line Catch Basin w/ Polymer Concrete Base | **97934** | **97935** | 11.1 | 113.4 |
| K1-621 Catch Basin w/ Plastic Base | **94617** | **94618** | 24.9 | 55.8 |
| K1-622 Catch Basin w/ Polymer Concrete Base | **97915** | **97916** | 25.1 | 137.5 |
| K1-631 Catch Basin w/ Plastic Riser & Base | **94631** | **94632** | 34.7 | 65.8 |
| K1-632 Catch Basin w/ Polymer Concrete Riser & Base | **97925** | **97926** | 34.0 | 183.0 |
| Series 600 Plastic Riser | **99902** | | 9.8 | 10.0 |
| Series 611 Polymer Concrete Riser | **91110** | | 8.9 | 45.0 |
| Foul Air Trap (fits all plastic basins) | **90854** | | - | 1.2 |

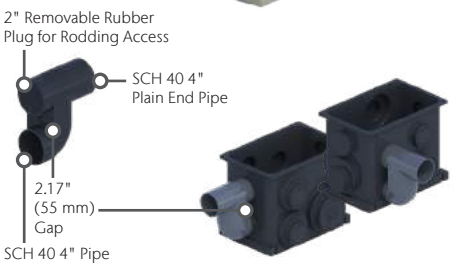
**Volume is up to grate seat and without trash bucket.*

## BLANKING END PLATES

Blanking plates are supplied with catch basin tops to stop concrete ingress at end of drain run. The plate is fitted by pushing it over the polymer concrete end bar to fit flush with side rails.

## FOUL AIR TRAP

A plastic foul air trap that fits into the front or side of plastic in-line catch basins. A coupler is required to connect SCH 40 4" plain end pipe to underground pipe system.

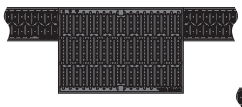


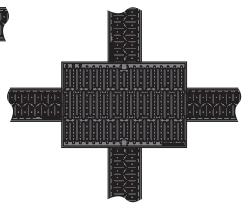

## CATCH BASIN CHANNEL CONNECTION

Channels can be connected to catch basin on all four sides in a variety of configurations.

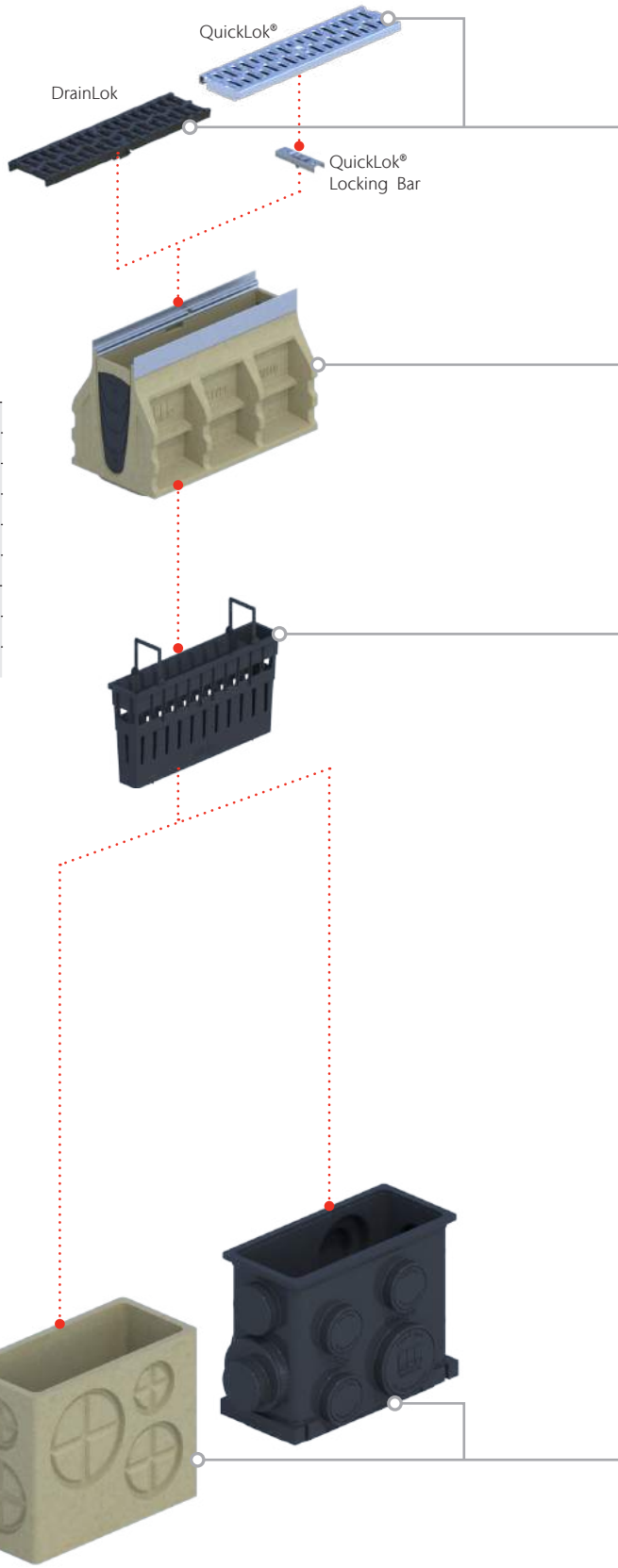
Series 900

Series 600





## K1 SERIES 900 4" WIDE IN-LINE CATCH BASINS



## K1 SERIES 600 12" WIDE CATCH BASINS

**Series 600 Grates** - choice of grates to match/complement channel with DrainLok or QuickLok® boltless locking. See page 77–78. All catch basin assemblies will include one QuickLok® Locking Bar.

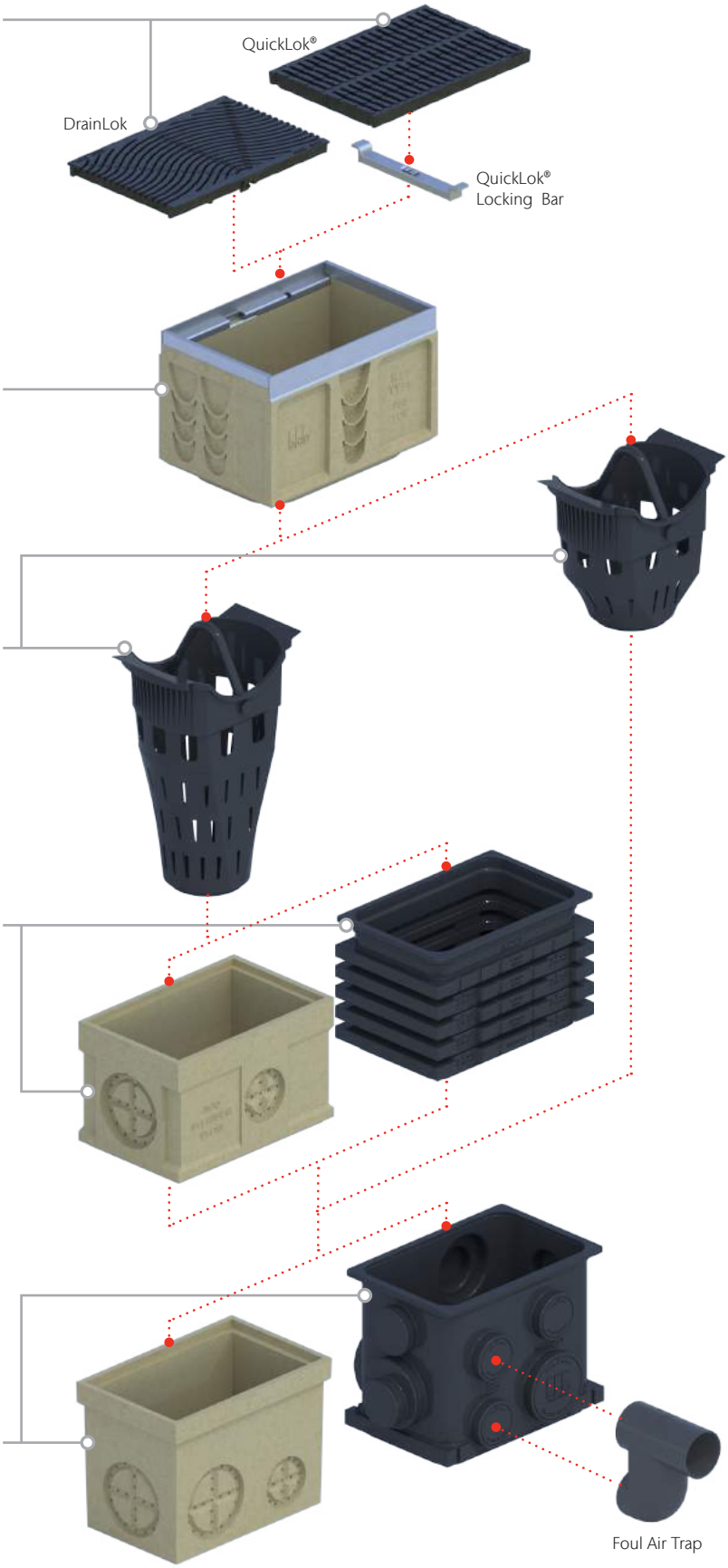
**Series 900 Grates** - choice of grates to match channel grates with DrainLok or QuickLok® boltless locking. See page 35–38. QuickLok® grates are often paired with removable QuickLok® locking bars for easy access to trash bucket and pipework. One is included in each catch basin assembly.

**Top Section** - polymer concrete with integrally cast-in galvanized or stainless steel frame. Guides aid connection of male channel ends at #10, 20, 30 and 40 depths. Other channels can be connected by removing wall to required height. Blanking kit supplied with in-line catch basins.

**Trash Bucket** - plastic trash bucket designed to collect debris washed from trench run. Supported in catch basin top to avoid creation of a vacuum and reduction in outflow. K1-631 and K1-632 use a deeper bucket with riser.

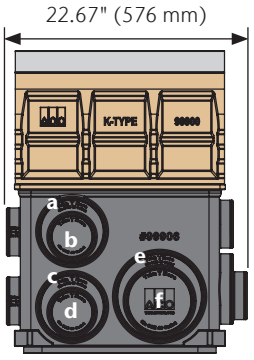
**Riser** - a plastic or polymer concrete riser supplied with K1-631 and K1-632, designed to provide additional catch basin depth and hydraulic output. Guides on the plastic version enable cutting to size at 2" (50 mm) intervals - minimum 2" and maximum 12" height. Additional units can be used (a maximum of 2 is recommended to ensure snake access is maintained and for structural stability).
*Multiple risers can be used with series 600 catch basins.*

**Base** - Plastic or polymer concrete bases available. Plastic bases have a wide range of SCH 40 4", 6" and 8" cut-outs for easy pipe connection. Cut-outs on end and side allow connection of ACO foul air trap. Polymer concrete bases have drill-outs cast on the sides for pipe connections.

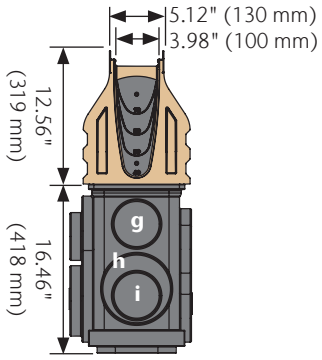


# Catch Basin Dimensions & Outlet Flow Rates

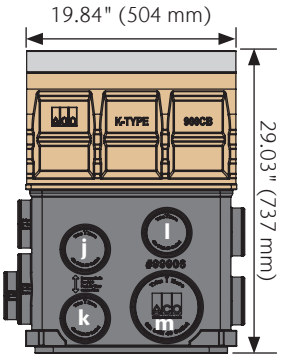
## K1-901G/S In-Line Catch Basin



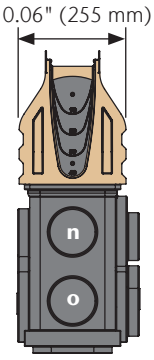

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 19.99 | 505 | 1.12 |
| b | 4" | 19.36 | 227 | 0.51 |
| c | 6" | 27.30 | 604 | 1.35 |
| d | 4" | 26.43 | 269 | 0.60 |
| e | 8" | 27.30 | 1051 | 2.34 |
| f | 6" | 26.43 | 593 | 1.32 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| g | 4" | 18.56 | 222 | 0.49 |
| h | 6" | 25.85 | 586 | 1.30 |
| i | 4" | 25.30 | 263 | 0.59 |

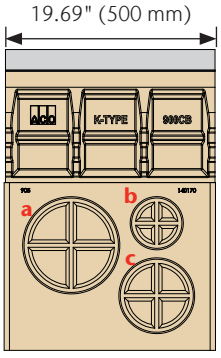



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 4" | 20.68 | 235 | 0.52 |
| k | 4" | 27.17 | 273 | 0.61 |
| l | 4" | 18.99 | 224 | 0.50 |
| m | 6" | 27.17 | 602 | 1.34 |

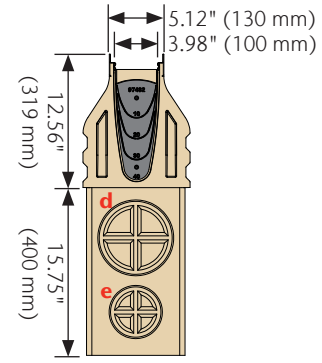



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| n | 4" | 19.30 | 226 | 0.50 |
| o | 4" | 25.67 | 265 | 0.59 |

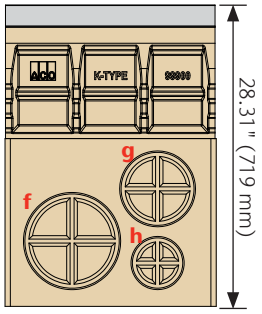
## K1-906G/S In-Line Catch Basin



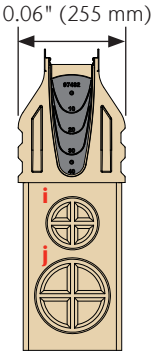

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 8" | 22.43 | 934 | 2.15 |
| b | 4" | 18.36 | 220 | 0.51 |
| c | 6" | 26.17 | 589 | 1.36 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| d | 6" | 20.26 | 509 | 1.17 |
| e | 4" | 26.23 | 268 | 0.62 |



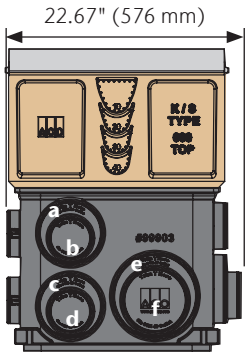

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| f | 8" | 26.17 | 1025 | 2.36 |
| g | 6" | 20.26 | 509 | 1.17 |
| h | 4" | 26.23 | 268 | 0.62 |



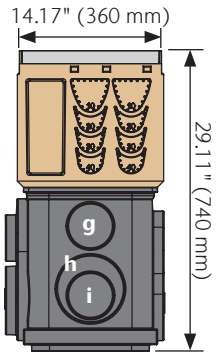

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| i | 4" | 18.36 | 220 | 0.51 |
| j | 6" | 26.17 | 589 | 1.36 |

*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*

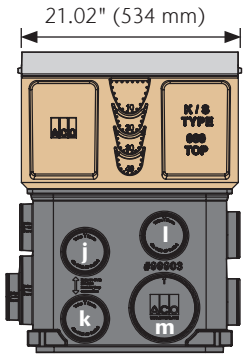
## K1-621G/S Catch Basin



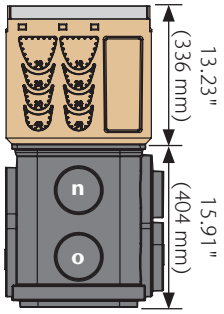

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 20.62 | 514 | 1.15 |
| b | 4" | 20.07 | 231 | 0.52 |
| c | 6" | 27.76 | 609 | 1.36 |
| d | 4" | 27.19 | 273 | 0.61 |
| e | 8" | 27.76 | 1061 | 2.36 |
| f | 6" | 27.19 | 602 | 1.34 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| g | 4" | 19.15 | 225 | 0.50 |
| h | 6" | 26.28 | 591 | 1.32 |
| i | 4" | 25.86 | 266 | 0.59 |

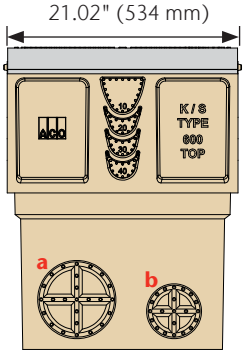



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 4" | 21.29 | 239 | 0.53 |
| k | 4" | 27.79 | 276 | 0.62 |
| l | 4" | 19.72 | 229 | 0.51 |
| m | 6" | 27.79 | 610 | 1.36 |

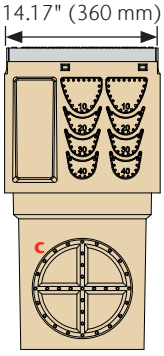



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| n | 4" | 19.84 | 230 | 0.51 |
| o | 4" | 26.34 | 269 | 0.60 |

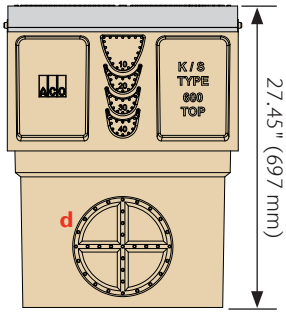
## K1-622G/S Catch Basin



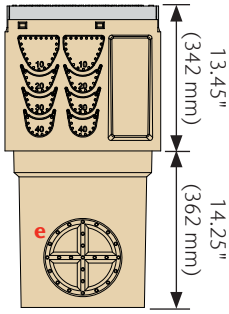

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 25.96 | 587 | 1.35 |
| b | 4" | 26.02 | 267 | 0.61 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| c | 8" | 25.96 | 1020 | 2.35 |



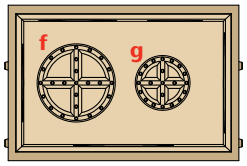

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| d | 8" | 25.96 | 1020 | 2.35 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| e | 6" | 25.96 | 587 | 1.35 |

*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*

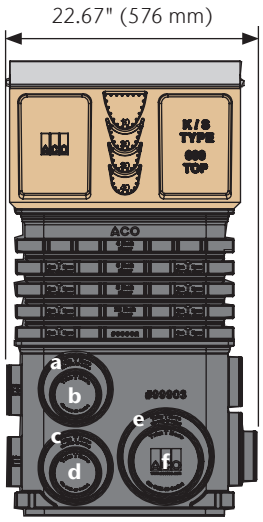
*Underside*



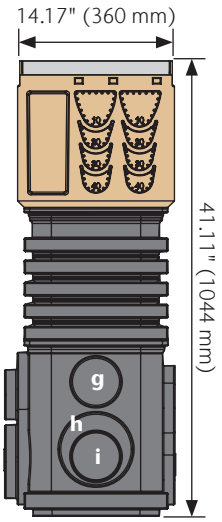

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| f | 6" | 27.45 | 641 | 1.48 |
| g | 4" | 27.45 | 285 | 0.66 |

# Catch Basin Dimensions & Outlet Flow Rates (cont.)

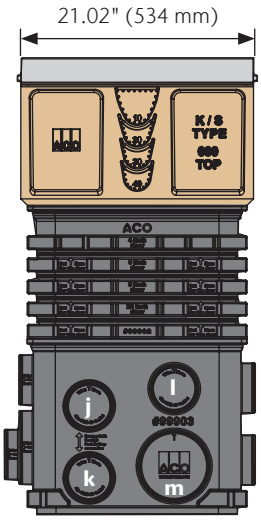
## K1-631G/S Catch Basin



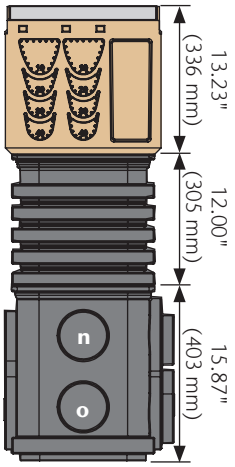

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 32.62 | 667 | 1.49 |
| b | 4" | 32.07 | 299 | 0.67 |
| c | 6" | 39.76 | 743 | 1.65 |
| d | 4" | 39.19 | 332 | 0.74 |
| e | 8" | 39.76 | 1302 | 2.90 |
| f | 6" | 39.19 | 737 | 1.64 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| g | 4" | 31.15 | 294 | 0.65 |
| h | 6" | 38.28 | 728 | 1.62 |
| i | 4" | 37.86 | 326 | 0.73 |

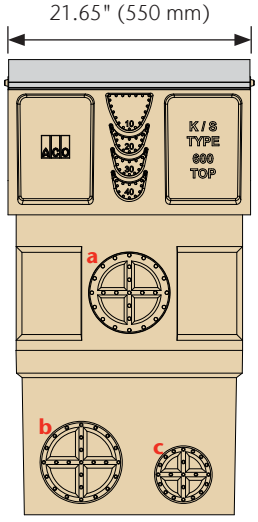



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 4" | 33.29 | 305 | 0.68 |
| k | 4" | 39.79 | 335 | 0.75 |
| l | 4" | 31.72 | 297 | 0.66 |
| m | 6" | 39.79 | 743 | 1.66 |

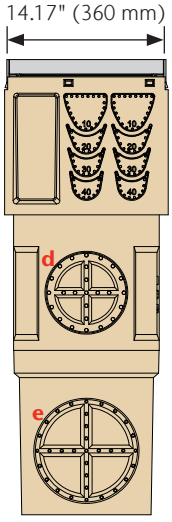



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| n | 4" | 31.84 | 297 | 0.66 |
| o | 4" | 38.34 | 328 | 0.73 |

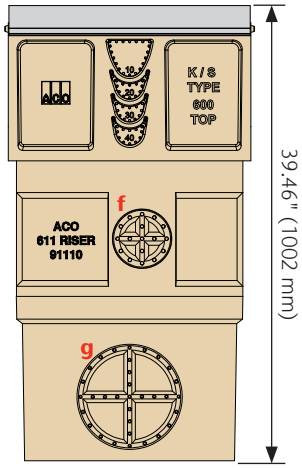
## K1-632G/S Catch Basin



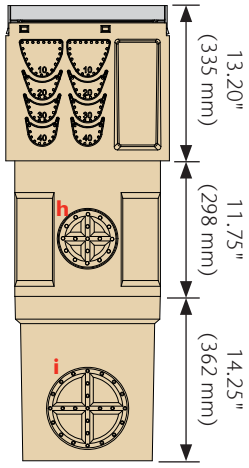

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 23.20 | 550 | 1.27 |
| b | 6" | 37.90 | 723 | 1.66 |
| c | 4" | 37.96 | 326 | 0.75 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| d | 6" | 23.20 | 551 | 1.27 |
| e | 8" | 37.90 | 1267 | 2.91 |



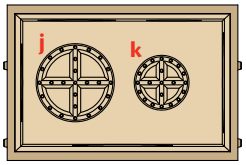

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| f | 4" | 22.20 | 245 | 0.56 |
| g | 8" | 37.90 | 1267 | 2.91 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| h | 4" | 22.20 | 245 | 0.56 |
| i | 6" | 37.90 | 723 | 1.66 |

*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*

*Underside*




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 6" | 39.45 | 769 | 1.77 |
| k | 4" | 39.45 | 342 | 0.79 |

**MADAME TUSSAUDS**
Hollywood, CA
United States

Madame Tussauds Hollywood is a wax museum and tourist attraction located on Hollywood Boulevard in Hollywood, California. It is the ninth location for the Tussauds franchise, which was set up by sculptor Marie Tussaud. KlassikDrain KS100 and Type 447 stainless steel longitudinal grates were used to stop stormwater from running into both Madame Tussauds and onto the Walk of Fame where over 10 million tourists visit each year.

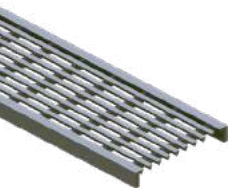
**PORTFOLIO**

# K100/KS100 Grates - DrainLok

**KEY**

- **ADA Compliant** — Compliant with Americans with Disabilities Act of 2010, Section 302.3 (page 174)
- **Heel-Resistant** — ASME A112.6.3 - 2001 Heel-resistant slot width less than 0.31" (8 mm) (page 174)
- **Heel-Safe** — Heel-safe slot width equal or less than 0.25" (6.5 mm) (page 174)
- **Slip-Resistant Grates** — BPN over 24 (page 174)
- **Bicycle-Safe** — Compliant to Australian Standard AS 3996 - 2006 (page 174)
- **Non-Metallic** — No metallic/magnetic parts included (page 170)

*For details on how psi is determined, see pages 161-166.*



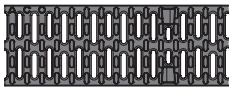
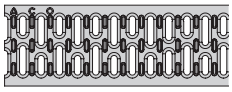
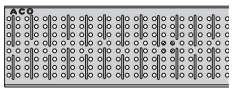
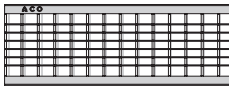
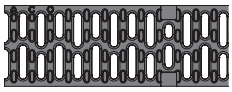
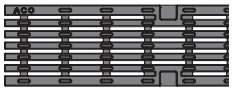
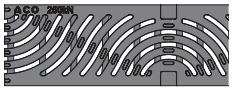
| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS A (EN 1433 - 15 KN) - 3,372 LBS - 70 PSI (PEDESTRIAN TRAFFIC)** | | | | | | | | | | |
| **PERFORATED STEEL** | | | | | | | | | | |
| Type 410D - Galvanized | **12666** | 39.37 (1.0) | Ø 0.25 | 28.3 | 6.3 | × | ✓ | ✓ | ✓ | ✓ |
| Type 412D - Galvanized | **12667** | 19.69 (0.5) | | 14.1 | 3.2 | × | | | | |
| Type 451D - Stainless[1] | **12664** | 39.37 (1.0) | | 28.3 | 6.3 | ✓ | | | | |
| Type 453D - Stainless[1] | **12665** | 19.69 (0.5) | | 14.1 | 3.2 | ✓ | | | | |
| **SLOTTED STEEL** | | | | | | | | | | |
| Type 420D - Galvanized | **12610** | 39.37 (1.0) | 0.38 x 1.46 avg. | 35.2 | 5.9 | ✓ | × | × | × | ✓ |
| Type 421D - Galvanized | **12611** | 19.69 (0.5) | | 17.6 | 3.0 | | | | | |
| Type 450D - Stainless[1] | **12640** | 39.37 (1.0) | | 35.2 | 5.9 | | | | | |
| Type 452D - Stainless[1] | **12641** | 19.69 (0.5) | | 17.6 | 3.0 | | | | | |
| **LONGITUDINAL PLASTIC[2]** | | | | | | | | | | |
| Type 494D - Black | **99575** | 19.69 (0.5) | 1.76 x 0.34 | 27.4 | 1.8 | ✓ | ✓ | × | × | ✓ |
| Type 495D - Gray | **99576** | 19.69 (0.5) | | 27.4 | 1.8 | | | | | |
| Type 496D - Tan | **99577** | 19.69 (0.5) | | 27.4 | 1.8 | | | | | |
| **LOAD CLASS B (EN 1433 - 125 KN) - 28,101 LBS - 580 PSI (LIGHT DUTY TRAFFIC)** | | | | | | | | | | |
| **LONGITUDINAL STEEL (STAINLESS)[1]** | | | | | | | | | | |
| Type 447D - Stainless | **142215** | 39.37 (1.0) | 1.61 x 0.24 | 93.7 | 8.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Type 448D - Stainless | **142216** | 19.69 (0.5) | | 46.9 | 4.0 | | | | | |
| **LONGITUDINAL STEEL (GALVANIZED)** | | | | | | | | | | |
| Type 438D - Galvanized | **132555** | 39.37 (1.0) | 1.15 x 0.3 | 66.0 | 8.0 | ✓ | ✓ | ✓ | × | ✓ |
| Type 437D - Galvanized | **132550** | 19.69 (0.5) | | 33.0 | 4.0 | | | | | |

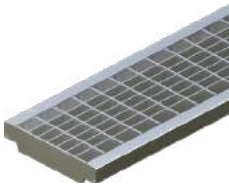
*Notes*

1. *Grade 304 stainless steel*
2. *Polypropylene material*
3. *Ductile iron to ASTM A536 Grade 65-45-12*
4. *Ductile iron to ASTM A536 Grade 80-55-06*

# K100/KS100 Grates - DrainLok (cont.)

| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS C (EN 1433 - 250 KN) - 56,202 LBS - 1,160 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | | |
| **SLOTTED PLASTIC[2]** | | | | | | | | | | |
| Type 492D - Microgrip Black | **132720** | 19.69 (0.5) | 0.3 x 1.69 avg. | 22.2 | 2.2 | ✓ | × | ✓ | × | ✓ |
| **SLOTTED STEEL** | | | | | | | | | | |
| Type 425D - Galvanized | **12614** | 39.37 (1.0) | 0.38 x 1.46 avg. | 35.2 | 10.0 | ✓ | × | × | × | ✓ |
| Type 426D - Galvanized | **12615** | 19.69 (0.5) | | 17.6 | 5.0 | | | | | |
| Type 455D - Stainless[1] | **12644** | 39.37 (1.0) | | 35.2 | 10.0 | | | | | |
| Type 457D - Stainless[1] | **12645** | 19.69 (0.5) | | 17.6 | 5.0 | | | | | |
| **PERFORATED STEEL** | | | | | | | | | | |
| Type 411D - Galvanized | **12656** | 39.37 (1.0) | Ø 0.25 | 28.3 | 10.0 | × | ✓ | ✓ | ✓ | ✓ |
| Type 413D - Galvanized | **12657** | 19.69 (0.5) | | 14.1 | 5.0 | × | | | | |
| Type 465D - Stainless[1] | **12654** | 39.37 (1.0) | | 28.3 | 10.0 | ✓ | | | | |
| Type 466D - Stainless[1] | **12655** | 19.69 (0.5) | | 14.1 | 5.0 | ✓ | | | | |
| **MESH STEEL** | | | | | | | | | | |
| Type 405D - Galvanized | **132880** | 39.37 (1.0) | 1.20 x 0.50 | 121.1 | 9.1 | ✓ | ✓ | × | × | ✓ |
| Type 406D - Galvanized | **132881** | 19.69 (0.5) | | 58.0 | 4.6 | | | | | |
| Type 430D - Stainless[1] | **132882** | 39.37 (1.0) | | 121.1 | 9.2 | | | | | |
| Type 431D - Stainless[1] | **132883** | 19.69 (0.5) | | 58.0 | 4.6 | | | | | |
| **SLOTTED IRON[3]** | | | | | | | | | | |
| Type 460D - Iron | **12670** | 19.69 (0.5) | 0.47 x 1.58 avg. | 28.3 | 8.0 | ✓ | ✓ | × | × | ✓ |
| **LONGITUDINAL IRON[4]** | | | | | | | | | | |
| Type 476D - Iron | **142171** | 19.69 (0.5) | 2.1 x 0.24 | 22.6 | 8.4 | ✓ | ✓ | ✓ | ✓ | ✓ |
| **WAVE IRON[4]** | | | | | | | | | | |
| Type 480D - Iron | **99578** | 19.69 (0.5) | 0.27 x 2.4 avg. | 27.0 | 8.0 | ✓ | ✓ | ✓ | × | ✓ |



## DRAINLOK - BOLTLESS & BARLESS LOCKING SYSTEM

Factory-fitted locking device removes need for bolts and bars and improves channel hydraulic capacity. The DrainLok mechanism clips into channel edge rail for rapid installation. DrainLok grates are fit with an anti-shunt mechanism that restricts unwanted grate movement when installed, improving durability and longevity of the system.

1

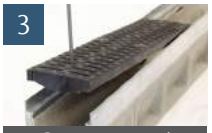
Fit grate

Position grate onto channel and align anti-shunt detail with recess in rail.

2

Push down or stand on grate until it clicks into position.

3



Grate removal

To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.

# K100/KS100 Grates - QuickLok®

**KEY**

**ADA Compliant**
Compliant with Americans with Disabilities Act of 2010, Section 302.3 (page 174)

**Heel-Resistant**
ASME A112.6.3 - 2001 Heel-resistant slot width less than 0.31" (8 mm) (page 174)

**Heel-Safe**
Heel-safe slot width equal or less than 0.25" (6.5 mm) (page 174)

**Slip-Resistant Grates**
BPN over 24 (page 174)

**Bicycle-Safe**
Compliant to Australian Standard AS 3996 - 2006 (page 174)

**Non-Metallic**
No metallic/magnetic parts included (page 170)

*For details on how psi is determined, see pages 161-166.*

| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS C (EN 1433 - 250 KN) - 56,202 LBS - 1,160 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | | | |
| **SLOTTED PLASTIC²** | | | | | | | | | | | |
| Type 492Q - Black | **31710** | 19.69 (0.5) | 0.3 x 1.69 avg. | 22.2 | 3.5 | ✓ | × | ✓ | × | ✓ | |
| **MOSAIC IRON⁴** | | | | | | | | | | | |
| Type 479Q - Iron | **97116** | 19.69 (0.5) | 0.43 avg. | 13.0 | 9.6 | ✓ | ✓ | × | × | ✓ | |
| **LOAD CLASS E (EN 1433 - 600 KN) - 134,885 LBS - 2,785 PSI (INDUSTRIAL TRAFFIC)** | | | | | | | | | | | |
| **SLOTTED IRON⁴** | | | | | | | | | | | |
| Type 461Q - Iron | **96752** | 19.69 (0.5) | 0.40 x 3.93 | 34.1 | 10.2 | ✓ | × | × | × | ✓ | |
| **SLOTTED STEEL** | | | | | | | | | | | |
| Type 435Q - Galvanized | **31550** | 39.37 (1.0) | 0.38 x 1.46 avg. | 35.2 | 13.7 | ✓ | × | × | × | ✓ | |
| Type 436Q - Galvanized | **31551** | 19.69 (0.5) | | 17.6 | 6.8 | | | | | | |
| Type 490Q - Stainless[1] | **31650** | 39.37 (1.0) | | 35.2 | 13.7 | | | | | | |
| Type 493Q - Stainless[1] | **31651** | 19.69 (0.5) | | 17.6 | 6.8 | | | | | | |
| **LONGITUDINAL IRON⁴** | | | | | | | | | | | |
| Type 478Q - Iron | **03314** | 19.69 (0.5) | 1.77 x 0.27 | 22.5 | 13.3 | ✓ | ✓ | ✓ | × | ✓ | |

*Notes*
*1. Grade 304 stainless steel 2. Polypropylene material 3. Ductile iron to ASTM A536 Grade 65-45-12 4. Ductile iron to ASTM A536 Grade 80-55-06*

## QUICKLOK® - BOLTLESS LOCKING SYSTEM

Fit locking bar

Locate locking bar in channel wall recesses by rotating clockwise.

Use hammer to tap bar into place, so that serrated ends grip in recess.

Fit grate

To install grate, align QuickLok® stud directly over locking bar.

Push down or stand on grate until it clicks into position.

Remove grate

To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.

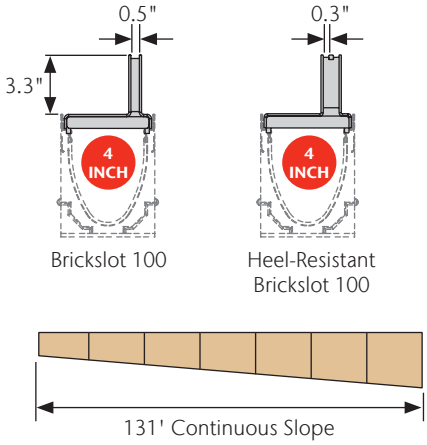
To remove bar, insert screwdriver into hole at end of bar and lever back serrated end, rotate bar free.

# K100/KS100 Grates - Brickslot Tops

| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS C (EN 1433 - 250 KN) - 56,202 LBS - 1,160 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | | |
| **BRICKSLOT 100 STEEL** | | | | | | | | | | |
| Type 441 - Galvanized | **138040** | 39.37 (1.0) | 39.4 x 0.47 | 18.6 | 17.6 | - | ✓ | × | × | ✓ |
| Type 442 - Galvanized | **138041** | 19.69 (0.5) | 19.7 x 0.47 | 9.3 | 9.0 | | | | | |
| Type 443 - Stainless[1] | **138045** | 39.37 (1.0) | 39.4 x 0.47 | 18.6 | 17.6 | | | | | |
| Type 444 - Stainless[1] | **138046** | 19.69 (0.5) | 19.7 x 0.47 | 9.3 | 9.0 | | | | | |
| **HEEL-RESISTANT BRICKSLOT 100 STEEL** | | | | | | | | | | |
| Type 470 - Galvanized | **138050** | 39.37 (1.0) | 39.4 x 0.30 | 24.8 | 18.0 | - | ✓ | ✓ | × | ✓ |
| Type 471 - Galvanized | **138051** | 19.69 (0.5) | 19.7 x 0.30 | 12.4 | 9.2 | | | | | |
| Type 472 - Stainless[1] | **138055** | 39.37 (1.0) | 39.4 x 0.30 | 24.8 | 18.0 | | | | | |
| Type 473 - Stainless[1] | **138056** | 19.69 (0.5) | 19.7 x 0.30 | 12.4 | 9.2 | | | | | |

# Brickslot 100

## Discreet Slot & 4" Internal Width Drainage Channel




Brickslot is a discreet, galvanized steel drainage solution for use with 3.125" or less brick or stone pavers. The slots blend in with the paving joints giving an aesthetic solution.

Brickslot 100 offers a single offset slot, or a twin heel-resistant slot option.

Stainless steel Brickslot is the same system, but is manufactured entirely in grade 304 stainless steel. Stainless steel Brickslot should be used where increased aesthetics are desired, or where increased corrosion resistance is required.

**Typical Applications:**

- Pedestrian plazas
- Aesthetic areas
- Paved areas
- Sidewalks

### BRICKSLOT 100 SELECTION CRITERIA

| | |
|---|---|
| A ▶▶▶▶ C | Light to medium duty loads |
| | Product can be used towards LEED & EPA requirements |
| | Resistant to many everyday chemicals |
| | Multiple grate options to meet legal requirements |
| | General, everyday hydraulic capacity |
| | Constant depth and/or sloped depth channels |

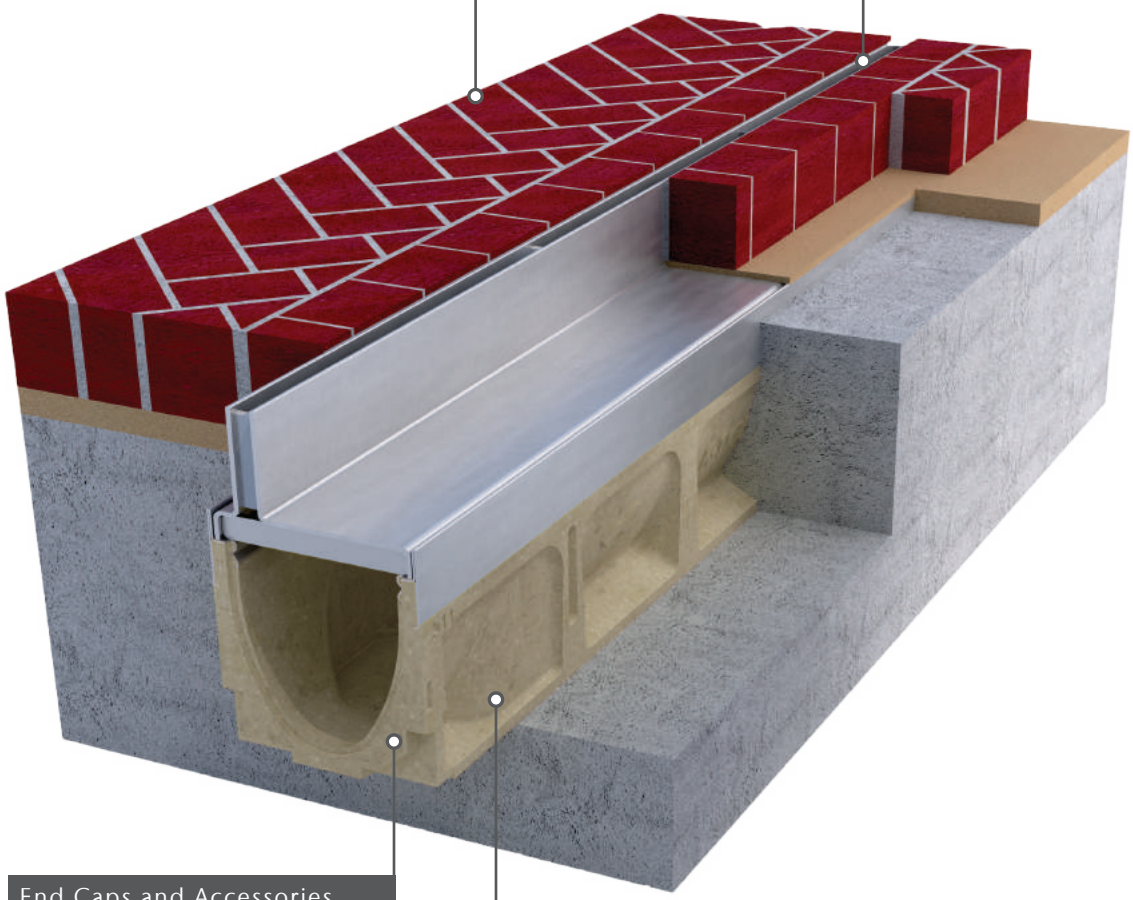
# Brickslot 100 Features

### Brick Pavers

Fit directly against slot. For light duty pedestrian applications, pavers can be set on sand; for heavier duty projects, pavers should be set on concrete. Maximum paver depth (allowing for 0.25" (6 mm) bedding material): 3.125" (80 mm).

### 0.5" (12 mm) Slot

Easy-to-clean, smooth slots allow continuous water flow into the channel. Offset, heel-resistant, double 0.31" (8 mm) flared slot opening to 1" (25 mm) throat for increased drainage capacity.



### End Caps and Accessories

Available from the K100 range.
See page 28 for details.

### Used with K100 Channel

Brickslot fits directly into K100 channel grate recess. Half meter sections are available. Half meter access units provide access to channel or catch basin for maintenance.
See page 28 for details.

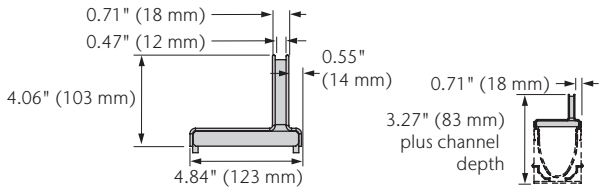
# Brickslot 100 Parts

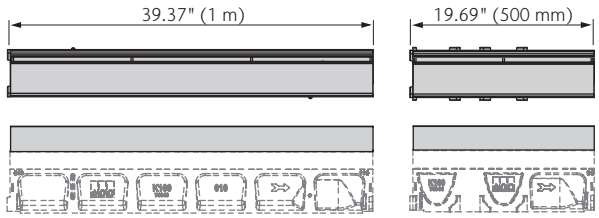
| | Part No. | | Overall Depth | Weight | | | |
|---|---|---|---|---|---|---|---|
| | Galvanized | Stainless | in (mm) | lbs | | | |
| Type 441/443 - Brickslot 100 - 39.37" (1 m) | **138040** | **138045** | 4.06 (103) | 17.6 | ✓ | × | ✓ |
| Type 442/444 - Brickslot 100 - 19.69" (0.5 m) | **138041** | **138046** | 4.06 (103) | 9.0 | ✓ | × | ✓ |
| Type 482/484 - Brickslot 100 - Access Unit - 19.69" (0.5 m) [3] | **138042** | **138047** | 4.06 (103) | 16.4 | ✓ | × | ✓ |
| Type 470/472 - Heel-Resistant Brickslot 100 - 39.37" (1 m) | **138050** | **138055** | 4.06 (103) | 18.0 | ✓ | ✓ | ✓ |
| Type 471/473 - Heel-Resistant Brickslot 100 - 19.69" (0.5 m) | **138051** | **138056** | 4.06 (103) | 9.2 | ✓ | ✓ | ✓ |
| Type 483/485 - Heel-Resistant Brickslot 100 Access Unit - 19.69" (0.5 m) [3] | **138152** | **138057** | 4.06 (103) | 11.0 | ✓ | ✓ | ✓ |
| Grate Removal Tool [4] | **01318** | | - | 0.3 | - | - | - |

*Notes*

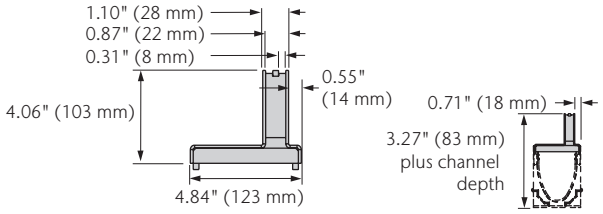
*1. For K100 channels and K1-900 catch basin information pages 28–29.*
*2. Brickslot can also be used with SlabDrain HK channels - see page 135.*
*3. Access unit can be used on channels or catch basins - for details please refer to separate Spec Info sheets.*
*4. Only access cover can be removed once Brickslot has been installed.*
*5. For custom slot widths, heights or materials (e.g. 316L stainless steel), ask us about our Aquaduct product line.*

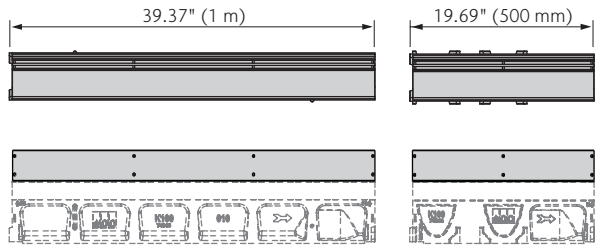
## Brickslot 100



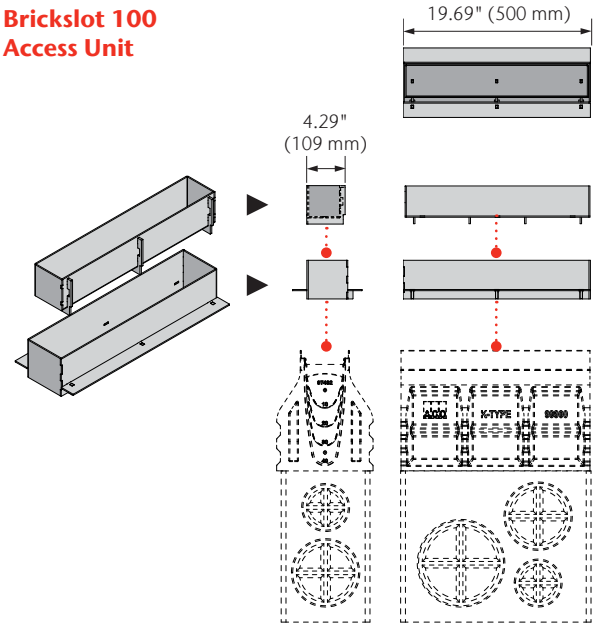




## Heel-Resistant Brickslot 100

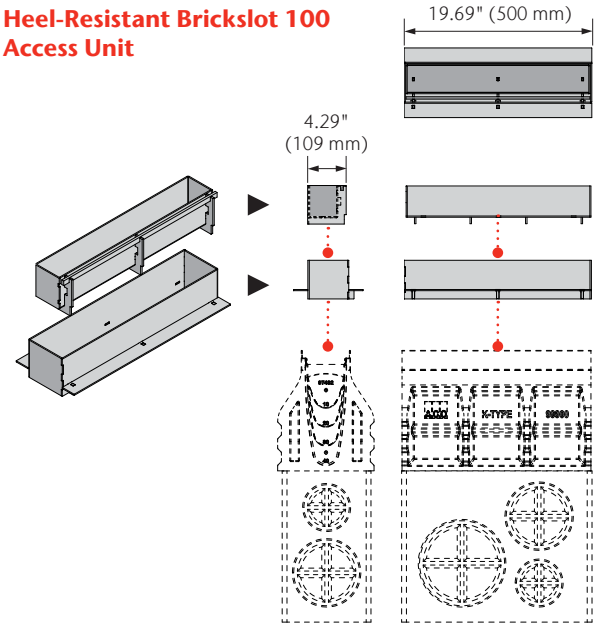



## Brickslot 100 Access Unit

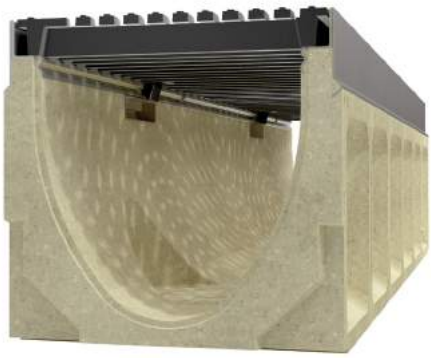


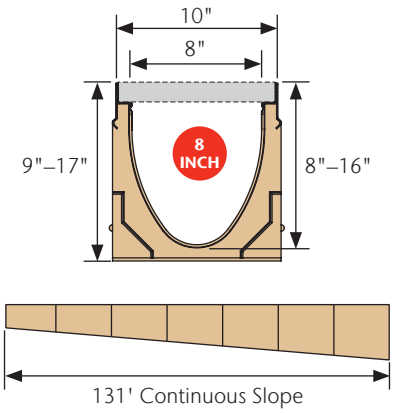

## Heel-Resistant Brickslot 100 Access Unit



# KlassikDrain K200/KS200

## 8" Internal Width General Purpose System






K200 is an 8" wide system with galvanized steel edge rail and wide choice of grates in different materials and slot styles up to Load Class E (60 ton) featuring either patented DrainLok or QuickLok® boltless locking systems.

KS200 is the same system, but the edge rail is grade 304 stainless steel. KS200 should be used where increased aesthetics are required, or where increased corrosion resistance is required.

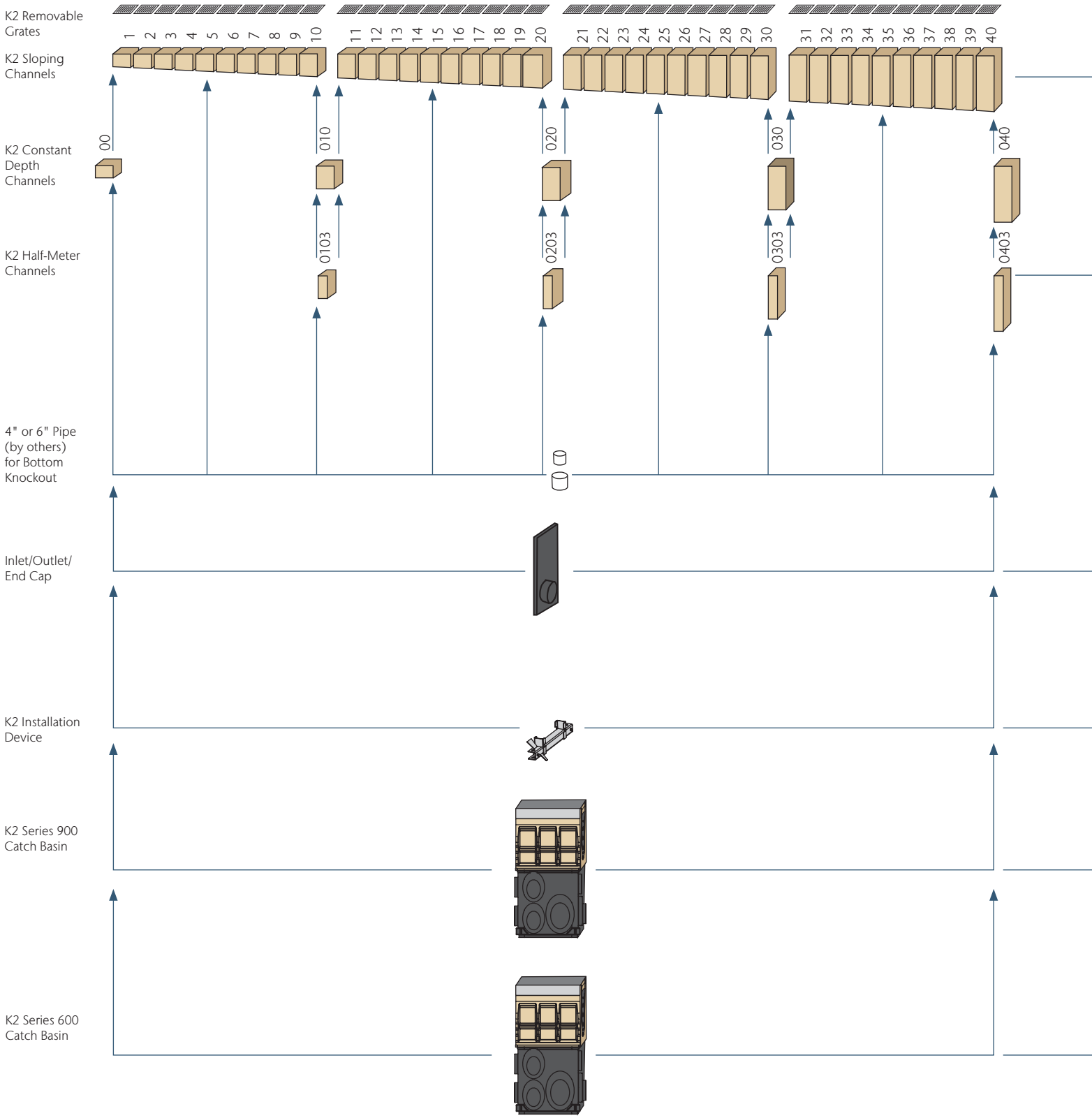
**Typical Applications:**

- Parking lots & garages
- Shopping malls
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

### KLASSIKDRAIN K200/KS200 SELECTION CRITERIA

| | |
|---|---|
| A ▶▶▶▶ E | Light to industrial duty loads |
| | Product can be used towards LEED & EPA requirements |
| | Resistant to many everyday chemicals |
| | Multiple grate options to meet legal requirements |
| SAFE | Multiple grate options to meet design requirements |
| | Increased hydraulic capacity |
| | Constant depth and/or sloped depth channels |

# K200/KS200 System Layout






*Note: K2 Universal Inlet/Outlet/End Cap, Installation Devices and Catch Basins can be placed at either end of any channel within the system.*

### K2 Meter Channels - Sloping & Constant Depth

0.5% sloped channels in meter lengths and 40 depths which connect to create 40 meter (131'-2") continuously sloping run. Available with either galvanized or stainless steel edge rail.

Constant depth channels available in 5 depths. Can be used to create non-sloped runs, or inserted in sloped runs to increase length.

Bottom knockouts on all constant depths and 5, 10, 15, 20, 25, 30, 35, 40 channels.

### K2 Half-meter Channels

Constant depth channels in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels. Available with either galvanized or stainless steel edge rail.

### K2 Universal Inlet/Outlet/End Cap

Fits all channels and manufactured from ABS plastic to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. 4" and 6" bell end connection to SCH 40 pipe. Seal using PVC-ABS cement.
*Note: ACO recommends removal of unused sections of bell end to ensure adequate pavement material coverage.*

### K2 Installation Device

Fits molded recesses on body of channel. Provides height and joint alignment - a sliding clamp locks the two channels together. Bolt to rebar on either side of channel to hold channels in place during concrete pour. Not reusable; it is encased within concrete pour.

### K2 Series 900 In-Line Catch Basins

Two-part in-line catch basin with either a plastic base with 4", 6" and 8" drill-outs for pipe connection or a polymer concrete base. Supplied with plastic trash bucket. Options include an in-line or side foul air trap. Available with either galvanized or stainless steel edge rail.

Any channel can be connected into the catch basin by removing the end wall to the correct height with a box cutter. Cut-out guides provided for connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends. One blanking end plate supplied with in-line catch basin.

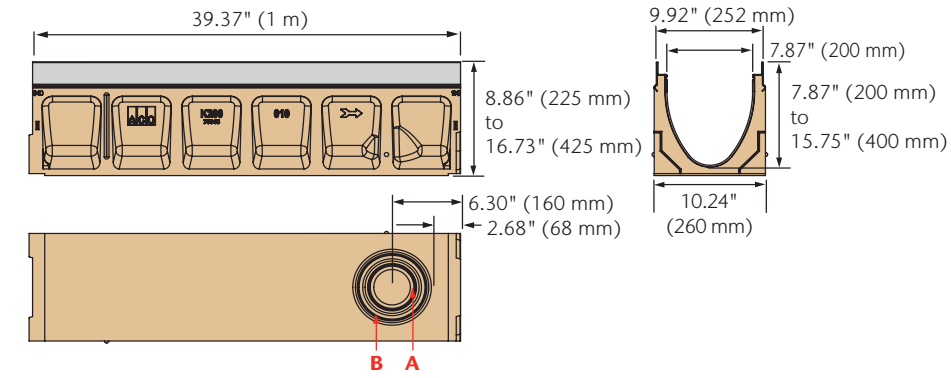
### K2 Series 600 Catch Basins

Two-part in-line catch basin with either a plastic base with 4", 6" and 8" drill-outs for pipe connection or a polymer concrete base. Supplied with plastic trash bucket. Available with either galvanized or stainless steel edge rail.

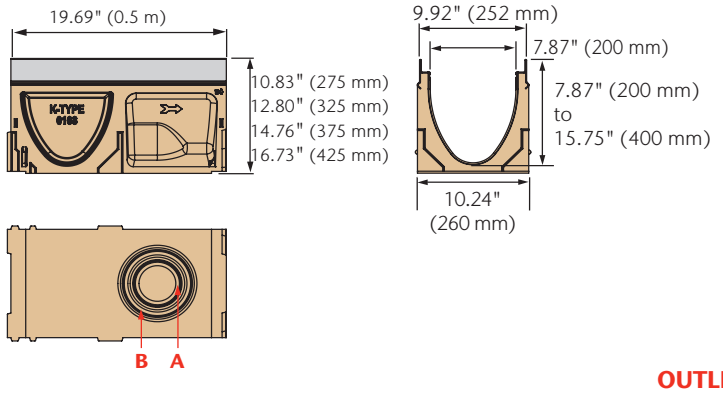
Any channel can be connected to catch basin by removing end/side wall to correct height. Drill-outs guide connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends. Blanking kits included to stop concrete ingress during final pour.

# Dimensions & Outlet Flow Rates

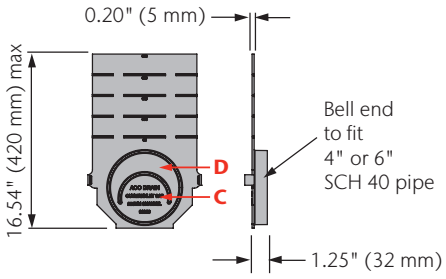
## K2 Meter Channels




## K2 Half-Meter Channels




## K2 Universal Inlet/Outlet/End Cap

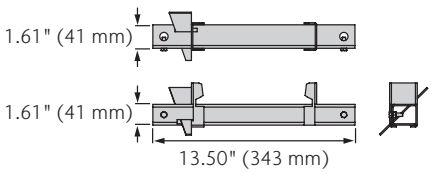



## OUTLET FLOW RATES

| Channel Outlet | Channel | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|---|
| A | K2-00 | 4" round | 7.87 | 153 | 0.34 |
| | K2-40 | 4" round | 15.75 | 216 | 0.48 |
| B | K2-00 | 6" round | 7.87 | 344 | 0.77 |
| | K2-40 | 6" round | 15.75 | 486 | 1.08 |
| C | K2-20 | 4" round | 7.87 | 132 | 0.29 |
| | K2-40 | 4" round | 15.75 | 202 | 0.45 |
| D | K2-30 | 6" round | 9.84 | 320 | 0.71 |
| | K2-40 | 6" round | 15.75 | 437 | 0.97 |

*Note: These are pipe flow rates at specified outlet, NOT channel flow rates.*

## K2 Installation Device



# K200/KS200 Parts

| | Part No. | | Invert Depth | | | | Overall Depth | | | | Volume | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K200 | KS200 | in | | mm | | in | | mm | | gal | lbs |
| | | | female | male | female | male | female | male | female | male | | |
| **K2-00 Constant Depth Channel - 39.37" (1 m)*** | **75041** | **75441** | **7.87** | **7.87** | **200** | **200** | **8.86** | **8.86** | **225** | **225** | **7.54** | **83.6** |
| K2-1 Sloped Channel - 39.37" (1 m) | **75001** | **75401** | 7.87 | 8.07 | 200 | 205 | 8.86 | 9.06 | 225 | 230 | 7.94 | 83.6 |
| K2-2 Sloped Channel - 39.37" (1 m) | **75002** | **75402** | 8.07 | 8.27 | 205 | 210 | 9.06 | 9.25 | 230 | 235 | 8.13 | 84.7 |
| K2-3 Sloped Channel - 39.37" (1 m) | **75003** | **75403** | 8.27 | 8.46 | 210 | 215 | 9.25 | 9.45 | 235 | 240 | 8.33 | 85.8 |
| K2-4 Sloped Channel - 39.37" (1 m) | **75004** | **75404** | 8.46 | 8.66 | 215 | 220 | 9.45 | 9.65 | 240 | 245 | 8.53 | 86.9 |
| K2-5 Sloped Channel - 39.37" (1 m)* | **75005** | **75405** | 8.66 | 8.86 | 220 | 225 | 9.65 | 9.84 | 245 | 250 | 8.74 | 88.0 |
| K2-6 Sloped Channel - 39.37" (1 m) | **75006** | **75406** | 8.86 | 9.06 | 225 | 230 | 9.84 | 10.04 | 250 | 255 | 8.95 | 89.1 |
| K2-7 Sloped Channel - 39.37" (1 m) | **75007** | **75407** | 9.06 | 9.25 | 230 | 235 | 10.04 | 10.24 | 255 | 260 | 9.16 | 90.2 |
| K2-8 Sloped Channel - 39.37" (1 m) | **75008** | **75408** | 9.25 | 9.45 | 235 | 240 | 10.24 | 10.43 | 260 | 265 | 9.37 | 91.3 |
| K2-9 Sloped Channel - 39.37" (1 m) | **75009** | **75409** | 9.45 | 9.65 | 240 | 245 | 10.43 | 10.63 | 265 | 270 | 9.58 | 92.4 |
| K2-10 Sloped Channel - 39.37" (1 m)* | **75010** | **75410** | 9.65 | 9.84 | 245 | 250 | 10.63 | 10.83 | 270 | 275 | 9.79 | 93.5 |
| **K2-010 Constant Depth Channel - 39.37" (1 m)*** | **75043** | **75443** | **9.84** | **9.84** | **250** | **250** | **10.83** | **10.83** | **275** | **275** | **9.59** | **93.5** |
| **K2-0103 Constant Depth Channel - 19.69" (0.5 m)*** | **75044** | **75444** | **9.84** | **9.84** | **250** | **250** | **10.83** | **10.83** | **275** | **275** | **4.80** | **56.0** |
| K2-11 Sloped Channel - 39.37" (1 m) | **75011** | **75411** | 9.84 | 10.04 | 250 | 255 | 10.83 | 11.02 | 275 | 280 | 10.01 | 94.6 |
| K2-12 Sloped Channel - 39.37" (1 m) | **75012** | **75412** | 10.04 | 10.24 | 255 | 260 | 11.02 | 11.22 | 280 | 285 | 10.22 | 95.7 |
| K2-13 Sloped Channel - 39.37" (1 m) | **75013** | **75413** | 10.24 | 10.43 | 260 | 265 | 11.22 | 11.42 | 285 | 290 | 10.44 | 96.8 |
| K2-14 Sloped Channel - 39.37" (1 m) | **75014** | **75414** | 10.43 | 10.63 | 265 | 270 | 11.42 | 11.61 | 290 | 295 | 10.66 | 97.9 |
| K2-15 Sloped Channel - 39.37" (1 m)* | **75015** | **75415** | 10.63 | 10.83 | 270 | 275 | 11.61 | 11.81 | 295 | 300 | 10.88 | 99.0 |
| K2-16 Sloped Channel - 39.37" (1 m) | **75016** | **75416** | 10.83 | 11.02 | 275 | 280 | 11.81 | 12.01 | 300 | 305 | 11.10 | 100.1 |
| K2-17 Sloped Channel - 39.37" (1 m) | **75017** | **75417** | 11.02 | 11.22 | 280 | 285 | 12.01 | 12.20 | 305 | 310 | 11.32 | 101.2 |
| K2-18 Sloped Channel - 39.37" (1 m) | **75018** | **75418** | 11.22 | 11.42 | 285 | 290 | 12.20 | 12.40 | 310 | 315 | 11.54 | 102.3 |
| K2-19 Sloped Channel - 39.37" (1 m) | **75019** | **75419** | 11.42 | 11.61 | 290 | 295 | 12.40 | 12.60 | 315 | 320 | 11.76 | 103.4 |
| K2-20 Sloped Channel - 39.37" (1 m)* | **75020** | **75420** | 11.61 | 11.81 | 295 | 300 | 12.60 | 12.80 | 320 | 325 | 11.98 | 104.5 |
| **K2-020 Constant Depth Channel - 39.37" (1 m)*** | **75045** | **75445** | **11.81** | **11.81** | **300** | **300** | **12.80** | **12.80** | **325** | **325** | **11.78** | **104.5** |
| **K2-0203 Constant Depth Channel - 19.69" (0.5 m)*** | **75046** | **75446** | **11.81** | **11.81** | **300** | **300** | **12.80** | **12.80** | **325** | **325** | **5.89** | **64.0** |
| K2-21 Sloped Channel - 39.37" (1 m) | **75021** | **75421** | 11.81 | 12.01 | 300 | 305 | 12.80 | 12.99 | 325 | 330 | 12.21 | 105.6 |
| K2-22 Sloped Channel - 39.37" (1 m) | **75022** | **75422** | 12.01 | 12.20 | 305 | 310 | 12.99 | 13.19 | 330 | 335 | 12.42 | 106.7 |
| K2-23 Sloped Channel - 39.37" (1 m) | **75023** | **75423** | 12.20 | 12.40 | 310 | 315 | 13.19 | 13.39 | 335 | 340 | 12.65 | 107.8 |
| K2-24 Sloped Channel - 39.37" (1 m) | **75024** | **75424** | 12.40 | 12.60 | 315 | 320 | 13.39 | 13.58 | 340 | 345 | 12.87 | 108.9 |
| K2-25 Sloped Channel - 39.37" (1 m)* | **75025** | **75425** | 12.60 | 12.80 | 320 | 325 | 13.58 | 13.78 | 345 | 350 | 13.10 | 110.0 |
| K2-26 Sloped Channel - 39.37" (1 m) | **75026** | **75426** | 12.80 | 12.99 | 325 | 330 | 13.78 | 13.98 | 350 | 355 | 13.32 | 111.1 |
| K2-27 Sloped Channel - 39.37" (1 m) | **75027** | **75427** | 12.99 | 13.19 | 330 | 335 | 13.98 | 14.17 | 355 | 360 | 13.56 | 112.2 |
| K2-28 Sloped Channel - 39.37" (1 m) | **75028** | **75428** | 13.19 | 13.39 | 335 | 340 | 14.17 | 14.37 | 360 | 365 | 13.77 | 113.3 |
| K2-29 Sloped Channel - 39.37" (1 m) | **75029** | **75429** | 13.39 | 13.58 | 340 | 345 | 14.37 | 14.57 | 365 | 370 | 13.99 | 114.4 |
| K2-30 Sloped Channel - 39.37" (1 m)* | **75030** | **75430** | 13.58 | 13.78 | 345 | 350 | 14.57 | 14.76 | 370 | 375 | 14.22 | 115.5 |
| **K2-030 Constant Depth Channel - 39.37" (1 m)*** | **75047** | **75447** | **13.78** | **13.78** | **350** | **350** | **14.76** | **14.76** | **375** | **375** | **14.01** | **115.5** |
| **K2-0303 Constant Depth Channel - 19.69" (0.5 m)*** | **75048** | **75448** | **13.78** | **13.78** | **350** | **350** | **14.76** | **14.76** | **375** | **375** | **7.05** | **68.0** |
| K2-31 Sloped Channel - 39.37" (1 m) | **75031** | **75431** | 13.78 | 13.98 | 350 | 355 | 14.76 | 14.96 | 375 | 380 | 14.44 | 116.6 |
| K2-32 Sloped Channel - 39.37" (1 m) | **75032** | **75432** | 13.98 | 14.17 | 355 | 360 | 14.96 | 15.16 | 380 | 385 | 14.67 | 117.7 |
| K2-33 Sloped Channel - 39.37" (1 m) | **75033** | **75433** | 14.17 | 14.37 | 360 | 365 | 15.16 | 15.35 | 385 | 390 | 14.89 | 118.8 |
| K2-34 Sloped Channel - 39.37" (1 m) | **75034** | **75434** | 14.37 | 14.57 | 365 | 370 | 15.35 | 15.55 | 390 | 395 | 15.11 | 119.9 |
| K2-35 Sloped Channel - 39.37" (1 m)* | **75035** | **75435** | 14.57 | 14.76 | 370 | 375 | 15.55 | 15.75 | 395 | 400 | 15.34 | 121.0 |
| K2-36 Sloped Channel - 39.37" (1 m) | **75036** | **75436** | 14.76 | 14.96 | 375 | 380 | 15.75 | 15.94 | 400 | 405 | 15.56 | 122.1 |
| K2-37 Sloped Channel - 39.37" (1 m) | **75037** | **75437** | 14.96 | 15.16 | 380 | 385 | 15.94 | 16.14 | 405 | 410 | 15.78 | 123.2 |
| K2-38 Sloped Channel - 39.37" (1 m) | **75038** | **75438** | 15.16 | 15.35 | 385 | 390 | 16.14 | 16.34 | 410 | 415 | 16.02 | 124.3 |
| K2-39 Sloped Channel - 39.37" (1 m) | **75039** | **75439** | 15.35 | 15.55 | 390 | 395 | 16.34 | 16.54 | 415 | 420 | 16.23 | 125.4 |
| K2-40 Sloped Channel - 39.37" (1 m)* | **75040** | **75440** | 15.55 | 15.75 | 395 | 400 | 16.54 | 16.73 | 420 | 425 | 16.46 | 126.5 |
| **K2-040 Constant Depth Channel - 39.37" (1 m)*** | **75049** | **75449** | **15.75** | **15.75** | **400** | **400** | **16.73** | **16.73** | **425** | **425** | **16.27** | **126.5** |
| **K2-0403 Constant Depth Channel - 19.69" (0.5 m)*** | **75050** | **75450** | **15.75** | **15.75** | **400** | **400** | **16.73** | **16.73** | **425** | **425** | **8.14** | **77.0** |
| K2 Universal Inlet/Outlet/End Cap | **96821** | | 15.75 | 15.75 | 400 | 400 | 16.54 | 16.54 | 420 | 420 | - | 1.4 |
| K2 Debris Strainer for 4" Bottom Knockout[3] | **93488** | | - | - | - | - | - | - | - | - | - | 0.2 |
| K2 Installation Device | **97478** | | - | - | - | - | - | - | - | - | - | 4.0 |
| Grate Removal Tool | **01318** | | - | - | - | - | - | - | - | - | - | 0.3 |
| K2 QuickLok® Locking Bar | **10457** | | - | - | - | - | - | - | - | - | - | 0.5 |

*Notes:*

*1. K200 has a galvanized steel edge rail for general use. KS200 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion resistance is required.*

*2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 55–56.*

*3. Debris strainer details for 4" dia. outlet on page 138.*

*4. See Catch Basin Parts List on page 49.*

**This channel features 4" & 6" bottom knockouts.*

# Catch Basin Assemblies & Part Details

Polymer concrete catch basins can be used as standalone area drains or as the outlet to a trench run. They provide the highest hydraulic output and allow access to the pipe system for maintenance.

Series 900 catch basins are **in-line catch basins** (same width and visually indistinguishable from the trench run) while Series 600 catch basins are 12" wide, providing greater hydraulic output.

## CATCH BASIN LOAD STRENGTH

Catch basins with plastic risers/bases should be used in load classes A–D. For heavy duty applications, ACO recommends using polymer concrete risers and catch basins for load class E/F applications.

## K200/KS200 Catch Basin Parts

| | Part No. | | Volume* | Weight |
|---|---|---|---|---|
| | K200 | KS200 | gal | lbs |
| K2-902 In-Line Catch Basin w/ Plastic Base | **94611** | **94612** | 18.1 | 68.0 |
| K2-906 In-Line Catch Basin w/ Polymer Concrete Base | **97937** | **97938** | 17.5 | 137.1 |
| K2-621 Catch Basin w/ Plastic Base | **94620** | **94621** | 24.9 | 91.0 |
| K2-622 Catch Basin w/ Polymer Concrete Base | **97917** | **97918** | 25.1 | 169.7 |
| K2-631 Catch Basin w/ Plastic Riser & Base | **94633** | **94634** | 34.7 | 101.0 |
| K2-632 Catch Basin w/ Polymer Concrete Riser & Base | **97927** | **97928** | 34.0 | 215.2 |
| Series 600 Plastic Riser | **99902** | | 9.8 | 10.0 |
| Series 611 Polymer Concrete Riser | **91110** | | 8.9 | 45.0 |
| Foul Air Trap (fits all plastic basins) | **90854** | | - | 1.2 |

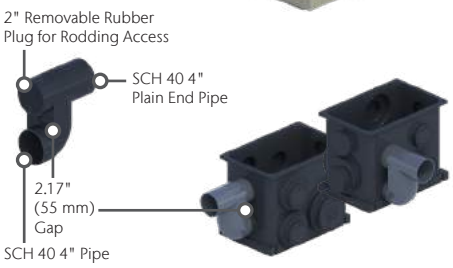
**Volume is up to grate seat and without trash bucket.*

## BLANKING END PLATES

Blanking plates are supplied with catch basin tops to stop concrete ingress at end of drain run. The plate is fitted by pushing it over the polymer concrete end bar to fit flush with side rails.

## FOUL AIR TRAP

A plastic foul air trap that fits into the front or side of plastic in-line catch basins. A coupler is required to connect SCH 40 4" plain end pipe to underground pipe system.

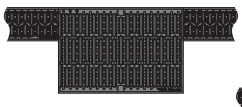


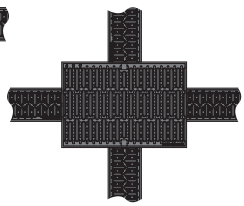

## CATCH BASIN CHANNEL CONNECTION

Channels can be connected to catch basin on all four sides in a variety of configurations.

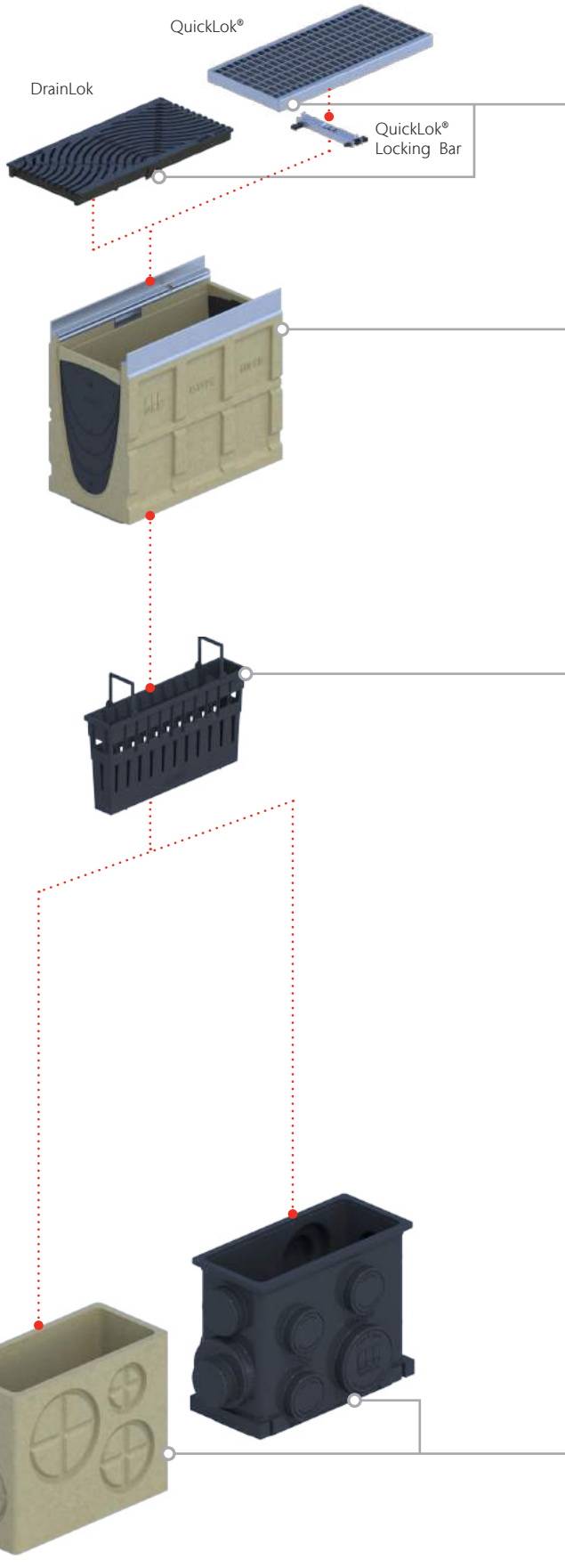
Series 900

Series 600





## K2 SERIES 900 8" WIDE IN-LINE CATCH BASINS



## K2 SERIES 600 12" WIDE CATCH BASINS

**Series 600 Grates** - choice of grates to match/complement channel with DrainLok or QuickLok® boltless locking. See page 77–78. All catch basin assemblies will include one QuickLok® Locking Bar.

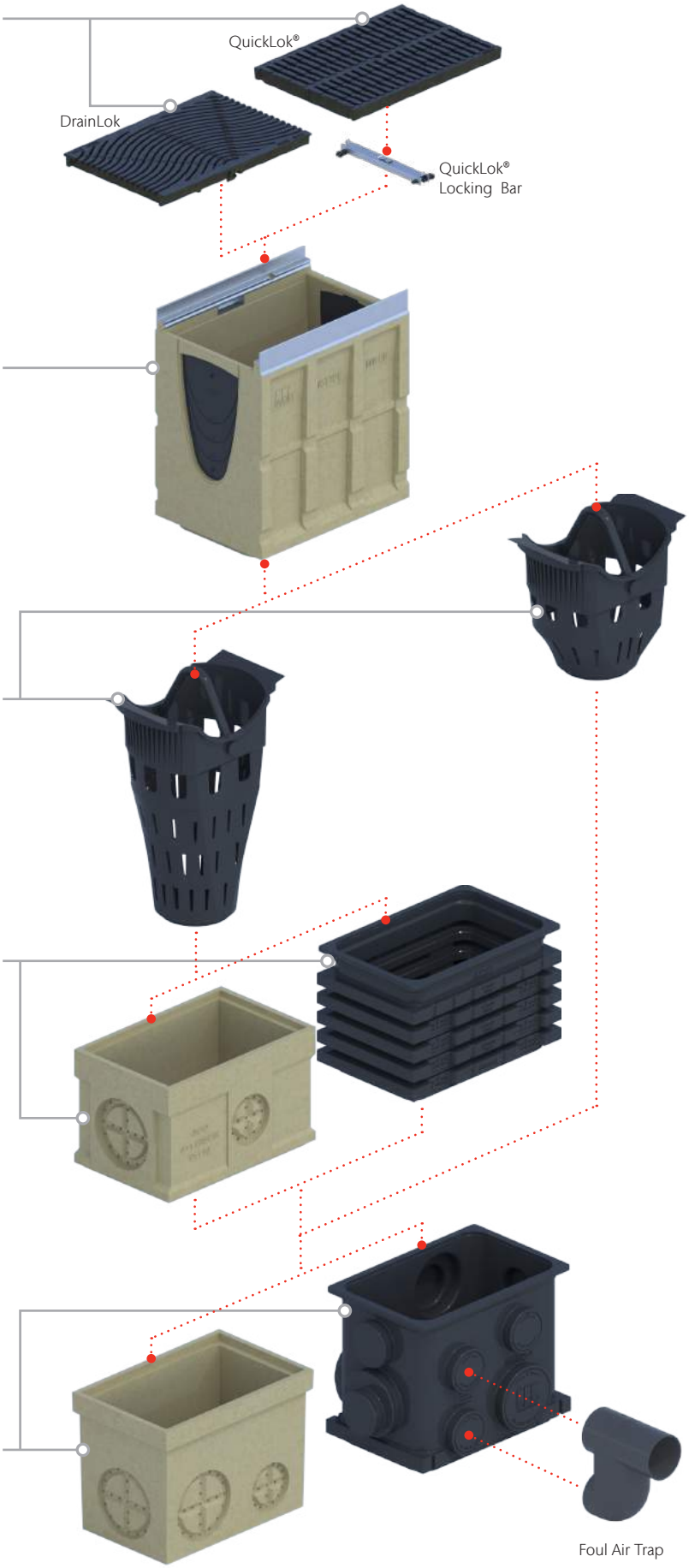
**Series 900 Grates** - choice of grates to match channel grates with DrainLok or QuickLok® boltless locking. See page 55–56. QuickLok® grates are often paired with removable QuickLok® locking bars for easy access to trash bucket and pipework. One is included in each catch basin assembly.

**Top Section** - polymer concrete with integrally cast-in galvanized or stainless steel frame. Guides aid connection of male channel ends at #10, 20, 30 and 40 depths. Other channels can be connected by removing wall to required height. Blanking kit supplied with all catch basins.

**Trash Bucket** - plastic trash bucket designed to collect debris washed from trench run. Supported in catch basin top to avoid creation of a vacuum and reduction in outflow. K2-631 and K2-632 use a deeper bucket with riser.

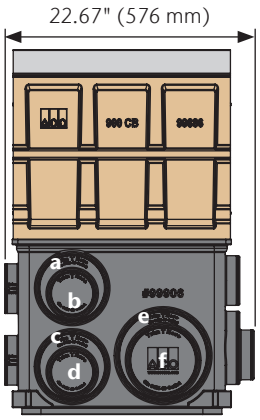
**Riser** - a plastic or polymer concrete riser, supplied with K2-631 and K2-632, designed to provide additional catch basin depth and hydraulic output. Guides on the plastic version enable cutting to size at 2" (50 mm) intervals - minimum 2" and maximum 12" height. Additional units can be used (a maximum of 2 is recommended to ensure snake access is maintained and for structural stability).
*Multiple risers can be used with series 600 catch basins.*

**Base** - Plastic or polymer concrete base available. Plastic bases have a wide range of SCH 40 4", 6" and 8" cut-outs for easy pipe connection. Cut outs on end and side allow connection of ACO foul air trap. Polymer concrete bases have drill-outs cast on sides for pipe connections.

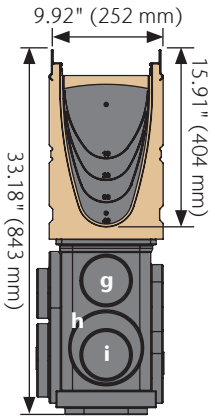


# Catch Basin Dimensions & Outlet Flow Rates

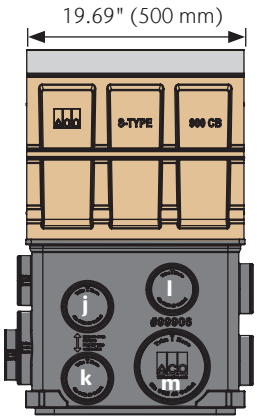
## K2-902G/S In-Line Catch Basin



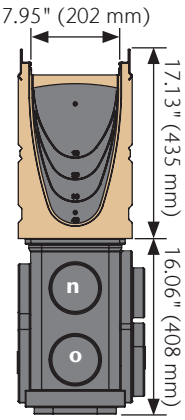

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 24.68 | 570 | 1.27 |
| b | 4" | 24.13 | 256 | 0.57 |
| c | 6" | 31.82 | 658 | 1.47 |
| d | 4" | 31.26 | 294 | 0.66 |
| e | 8" | 31.82 | 1149 | 2.56 |
| f | 6" | 31.26 | 651 | 1.45 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| g | 4" | 23.19 | 251 | 0.56 |
| h | 6" | 30.32 | 640 | 1.43 |
| i | 4" | 29.90 | 288 | 0.64 |

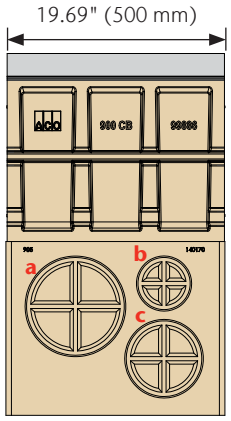



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 4" | 25.33 | 263 | 0.59 |
| k | 4" | 31.83 | 297 | 0.66 |
| l | 4" | 23.76 | 254 | 0.57 |
| m | 6" | 31.83 | 658 | 1.47 |

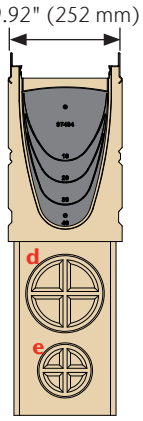



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| n | 4" | 23.91 | 255 | 0.57 |
| o | 4" | 30.40 | 290 | 0.65 |

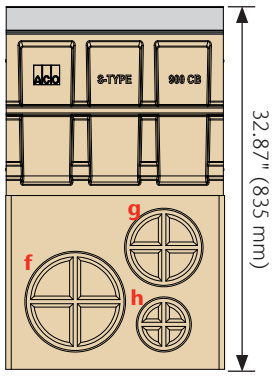
## K2-906G/S In-Line Catch Basin



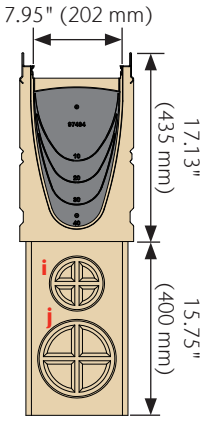

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 8" | 27.05 | 1045 | 2.4 |
| b | 4" | 22.98 | 249 | 0.57 |
| c | 6" | 30.79 | 645 | 1.48 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| d | 6" | 24.89 | 573 | 1.32 |
| e | 4" | 30.86 | 292 | 0.67 |



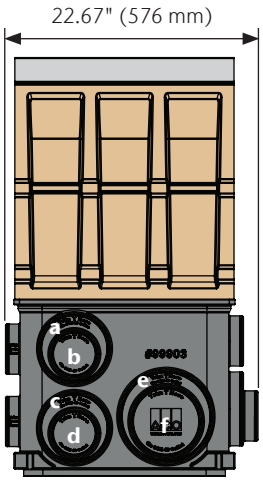

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| f | 8" | 30.79 | 1127 | 2.59 |
| g | 6" | 24.89 | 573 | 1.32 |
| h | 4" | 30.86 | 292 | 0.67 |



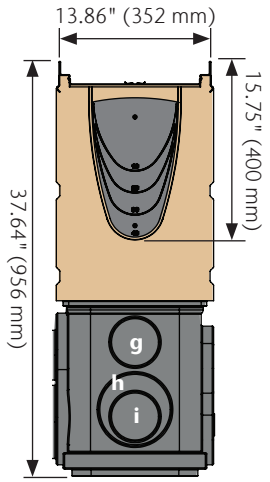

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| i | 4" | 22.98 | 249 | 0.57 |
| j | 6" | 30.79 | 645 | 1.48 |

*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*

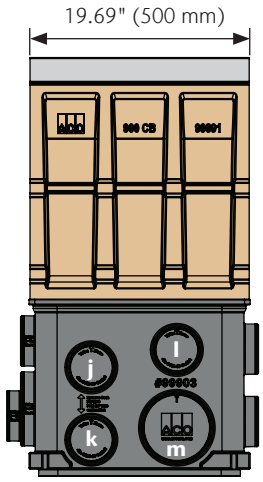
## K2-621G/S Catch Basin



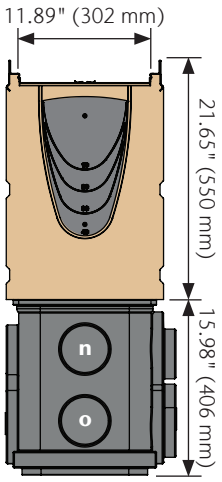

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 29.15 | 626 | 1.40 |
| b | 4" | 28.59 | 281 | 0.63 |
| c | 6" | 36.28 | 707 | 1.57 |
| d | 4" | 35.72 | 316 | 0.70 |
| e | 8" | 36.28 | 1237 | 2.76 |
| f | 6" | 35.72 | 701 | 1.56 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| g | 4" | 27.65 | 276 | 0.61 |
| h | 6" | 34.78 | 690 | 1.54 |
| i | 4" | 34.36 | 310 | 0.69 |

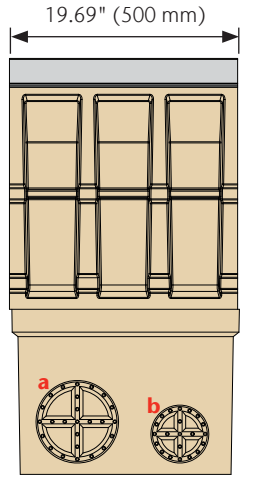



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 4" | 29.80 | 287 | 0.64 |
| k | 4" | 36.29 | 319 | 0.71 |
| l | 4" | 28.22 | 279 | 0.62 |
| m | 6" | 36.29 | 707 | 1.57 |

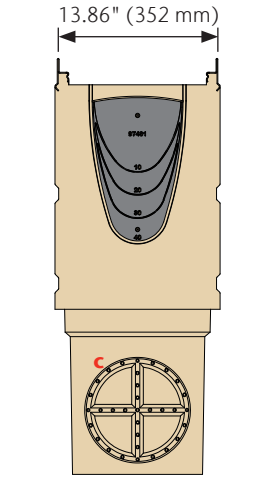



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| n | 4" | 28.37 | 280 | 0.62 |
| o | 4" | 34.87 | 312 | 0.70 |

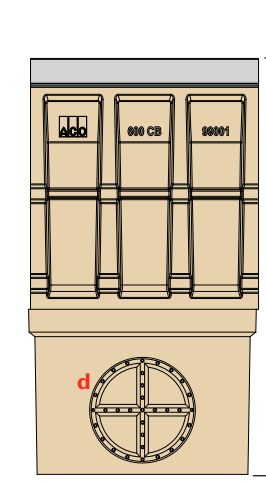
## K2-622G/S Catch Basin



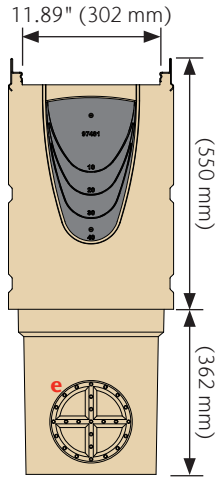

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 25.95 | 587 | 1.35 |
| b | 4" | 26.00 | 267 | 0.61 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| c | 8" | 25.95 | 1020 | 2.35 |



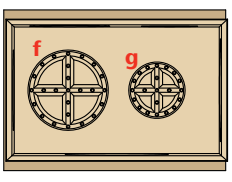

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| d | 8" | 25.95 | 1020 | 2.35 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| e | 6" | 25.95 | 587 | 1.35 |

*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*

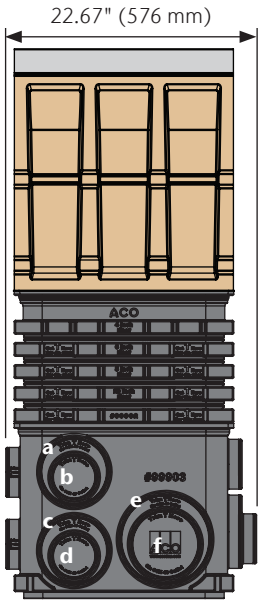
*Underside*



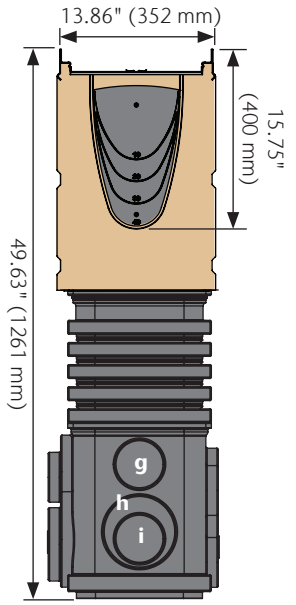

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| f | 6" | 35.90 | 734 | 1.69 |
| g | 4" | 35.90 | 326 | 0.75 |

# Catch Basin Dimensions & Outlet Flow Rates (cont.)

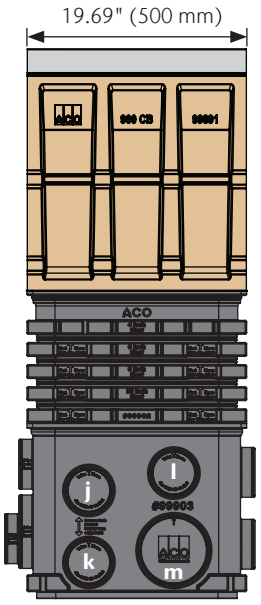
## K2-631G/S Catch Basin



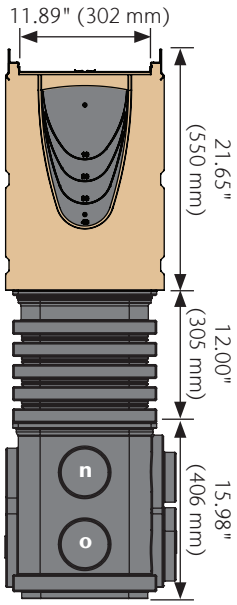

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 41.15 | 757 | 1.69 |
| b | 4" | 40.59 | 338 | 0.75 |
| c | 6" | 48.28 | 824 | 1.84 |
| d | 4" | 47.72 | 368 | 0.82 |
| e | 8" | 48.28 | 1449 | 3.23 |
| f | 6" | 47.72 | 819 | 1.83 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| g | 4" | 39.65 | 334 | 0.74 |
| h | 6" | 46.78 | 810 | 1.81 |
| i | 4" | 46.36 | 363 | 0.81 |

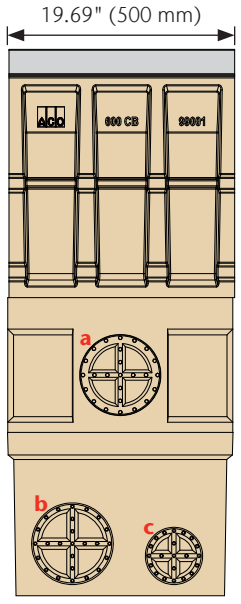



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 4" | 41.80 | 343 | 0.77 |
| k | 4" | 48.29 | 370 | 0.83 |
| l | 4" | 40.22 | 337 | 0.75 |
| m | 6" | 48.29 | 824 | 1.84 |

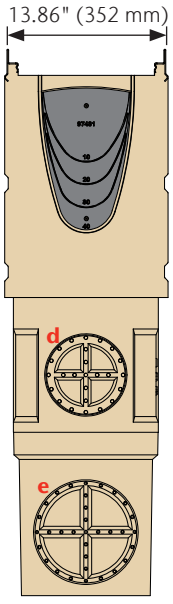



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| n | 4" | 40.37 | 337 | 0.75 |
| o | 4" | 46.87 | 365 | 0.81 |

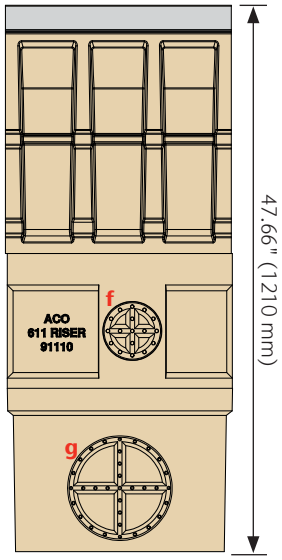
## K2-632G/S Catch Basin



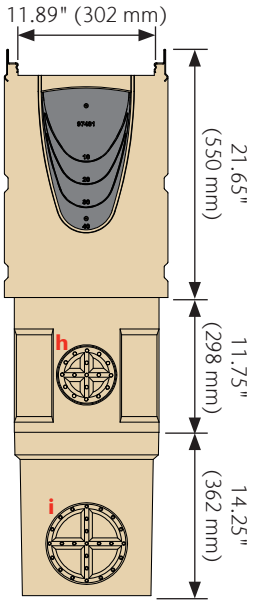

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 31.40 | 652 | 1.45 |
| b | 6" | 46.11 | 804 | 1.79 |
| c | 4" | 46.17 | 362 | 0.81 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| d | 6" | 31.40 | 652 | 1.45 |
| e | 8" | 46.10 | 1412 | 3.15 |

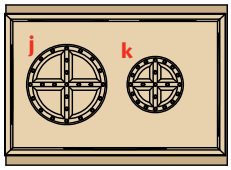



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| f | 4" | 30.40 | 290 | 0.65 |
| g | 8" | 46.10 | 1412 | 3.15 |



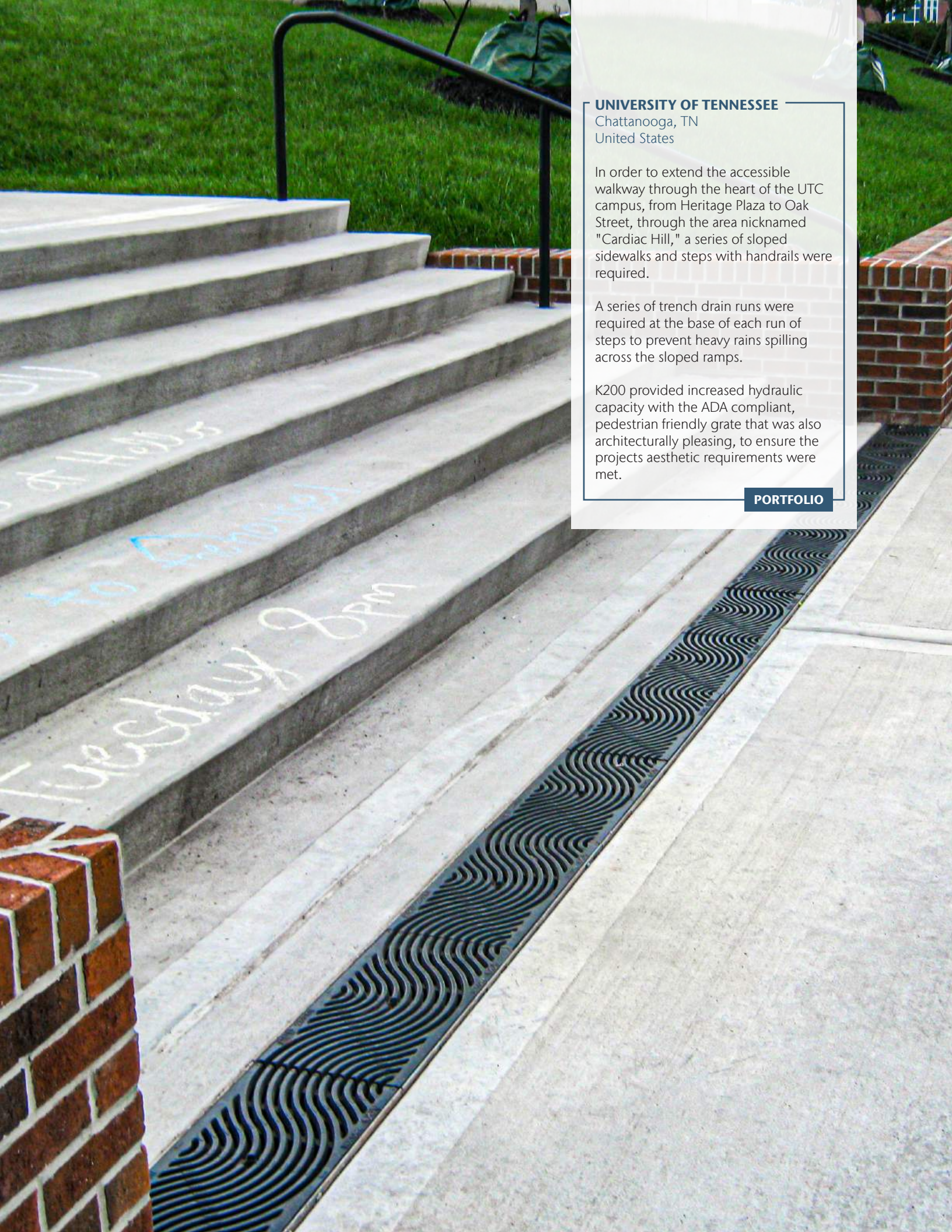

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| h | 4" | 30.40 | 290 | 0.65 |
| i | 6" | 46.10 | 804 | 1.79 |

*Underside*




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 6" | 47.65 | 845 | 1.94 |
| k | 4" | 47.65 | 376 | 0.86 |

*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*



## UNIVERSITY OF TENNESSEE

Chattanooga, TN
United States

In order to extend the accessible walkway through the heart of the UTC campus, from Heritage Plaza to Oak Street, through the area nicknamed "Cardiac Hill," a series of sloped sidewalks and steps with handrails were required.

A series of trench drain runs were required at the base of each run of steps to prevent heavy rains spilling across the sloped ramps.

K200 provided increased hydraulic capacity with the ADA compliant, pedestrian friendly grate that was also architecturally pleasing, to ensure the projects aesthetic requirements were met.

**PORTFOLIO**

# K200/KS200 Grates - DrainLok

**KEY**

**ADA Compliant**
Compliant with Americans with Disabilities Act of 2010, Section 302.3 (page 174)

**Heel-Resistant**
ASME A112.6.3 - 2001 Heel-resistant slot width less than 0.31" (8 mm) (page 174)

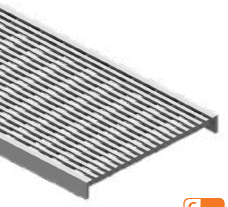
**Heel-Safe**
Heel-safe slot width equal or less than 0.25" (6.5 mm) (page 174)

**Slip-Resistant Grates**
BPN over 24 (page 174)

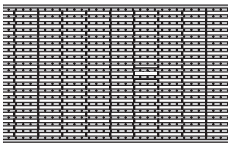
**Bicycle-Safe**
Compliant to Australian Standard AS 3996 - 2006 (page 174)

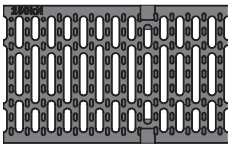
**Non-Metallic**
No metallic/magnetic parts included (page 170)

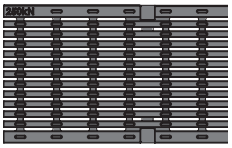
*For details on how psi is determined, see pages 161-166.*

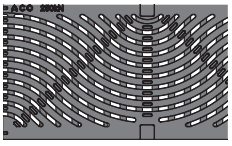


| Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS B (EN 1433 - 125 KN) - 28,101 LBS - 387 PSI (LIGHT DUTY TRAFFIC)** | | | | | | | | | |
| **LONGITUDINAL STEEL[1]** | | | | | | | | | |
| Type 647D - Stainless | **142219** | 39.37 (1.0) | 1.61 x 0.24 | 178.2 | 18.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Type 648D - Stainless | **142220** | 19.69 (0.5) | | 89.1 | 9.0 | | | | | |
| **LOAD CLASS C (EN 1433) - 56,202 LBS - 774 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | |
| **SLOTTED IRON[4]** | | | | | | | | | |
| Type 660D - Iron | **142177** | 19.69 (0.5) | 0.47 x 2.6 | 56.4 | 19.0 | × | × | × | × | ✓ |
| **LONGITUDINAL IRON[4]** | | | | | | | | | |
| Type 676D - Iron | **142173** | 19.69 (0.5) | 2.07 x 0.24 | 35.8 | 19.0 | ✓ | ✓ | × | × | ✓ |
| **WAVE IRON[4]** | | | | | | | | | |
| Type 680D - Iron | **99579** | 19.69 (0.5) | 0.27 x 0.9 avg. | 58.1 | 27.0 | ✓ | ✓ | ✓ | × | ✓ |









*Notes*
*1. Grade 304 stainless steel 2. Polypropylene material 3. Ductile iron to ASTM A536 Grade 65-45-12 4. Ductile iron to ASTM A536 Grade 80-55-06*

## DRAINLOK - BOLTLESS & BARLESS LOCKING SYSTEM

Factory-fitted locking device removes need for bolts and bars and improves channel hydraulic capacity. The DrainLok mechanism clips into channel edge rail for rapid installation. DrainLok grates are fit with an anti-shunt mechanism that restricts unwanted grate movement when installed, improving durability and longevity of the system.

Fit grate

Position grate onto channel and align anti-shunt detail with recess in rail.

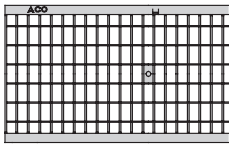
Push down or stand on grate until it clicks into position.

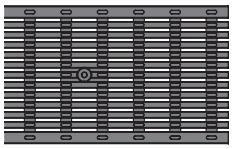
Remove grate

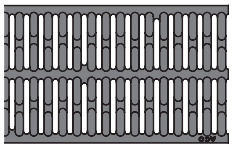
To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.

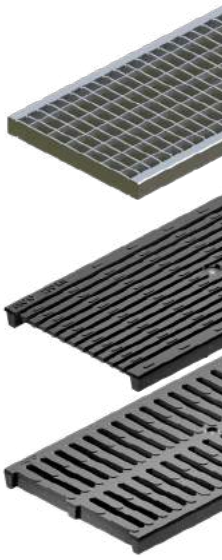
# K200/KS200 Grates - QuickLok®

| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS C (EN 1433 - 250 KN) - 56,202 LBS - 774 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | | |
| **MESH STEEL** | | | | | | | | | | |
| Type 605Q - Galvanized | **10352** | 39.37 (1.0) | 0.66 x 1.22 | 256.0 | 31.7 | ✓ | × | × | × | ✓ |
| Type 606Q - Galvanized | **10353** | 19.69 (0.5) | | 128.0 | 16.0 | | | | | |
| Type 630Q - Stainless[1] | **16032** | 39.37 (1.0) | | 256.0 | 31.7 | | | | | |
| Type 631Q - Stainless[1] | **16033** | 19.69 (0.5) | | 128.0 | 16.0 | | | | | |
| **LOAD CLASS E (EN 1433 - 600 KN) - 134,885 LBS - 1,856 PSI (INDUSTRIAL TRAFFIC)** | | | | | | | | | | |
| **LONGITUDINAL IRON[4]** | | | | | | | | | | |
| Type 678Q - Iron | **138129** | 19.69 (0.5) | 1.41 x 0.31 | 51.6 | 26.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| **SLOTTED IRON[4]** | | | | | | | | | | |
| Type 661Q - Iron | **10351** | 19.69 (0.5) | 0.39 x 3.75 | 81.9 | 37.0 | ✓ | × | × | × | × |









## QUICKLOK® - BOLTLESS LOCKING SYSTEM

1

Fit locking bar

Locate locking bar in channel wall recesses by rotating clockwise.

2

Use hammer to tap bar into place, so that serrated ends grip in recess.

3

4

Fit grate

To install grate, align QuickLok® stud directly over locking bar.

Push down or stand on grate until it clicks into position.

5

6

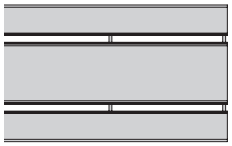
Remove grate

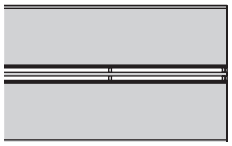
To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.

To remove bar, remove clips then insert screwdriver into hole at end of bar and lever back serrated end, rotate bar free.

# K200/KS200 Grates - Brickslot Tops

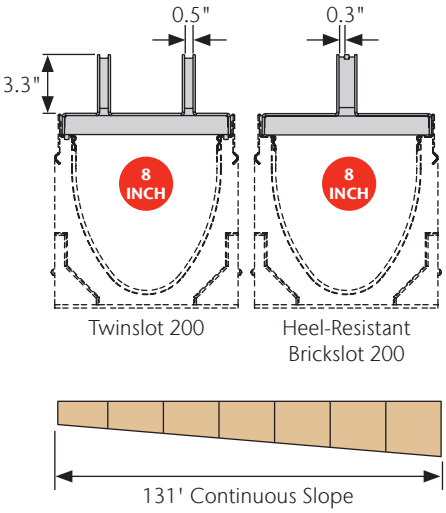
| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS C (EN 1433 - 250 KN) - 56,202 LBS - 774 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | | |
| **TWINSLOT 200 STEEL** | | | | | | | | | | |
| Type 641 - Galvanized | **138060** | 39.37 (1.0) | 39.4 x 0.47 | 37.2 | 36.3 | - | ✓ | × | × | ✓ |
| Type 642 - Galvanized | **138061** | 19.69 (0.5) | 19.7 x 0.47 | 18.6 | 18.7 | | | | | |
| Type 643 - Stainless[1] | **138065** | 39.37 (1.0) | 39.4 x 0.47 | 37.2 | 36.3 | | | | | |
| Type 644 - Stainless[1] | **138066** | 19.69 (0.5) | 19.7 x 0.47 | 18.6 | 18.7 | | | | | |
| **HEEL-RESISTANT BRICKSLOT 200 STEEL** | | | | | | | | | | |
| Type 670 - Galvanized | **138070** | 39.37 (1.0) | 39.4 x 0.30 | 24.8 | 28.2 | - | ✓ | ✓ | × | ✓ |
| Type 672 - Galvanized | **138071** | 19.69 (0.5) | 19.7 x 0.30 | 12.4 | 14.5 | | | | | |
| Type 673 - Stainless[1] | **138075** | 39.37 (1.0) | 39.4 x 0.30 | 24.8 | 28.2 | | | | | |
| Type 674 - Stainless[1] | **138076** | 19.69 (0.5) | 19.7 x 0.30 | 12.4 | 14.5 | | | | | |





# Brickslot 200

## Discreet Slot & 8" Internal Width Drainage Channel




Brickslot is a discreet, galvanized steel drainage solution for use with 3.125" or less brick or stone pavers. The slot(s) blend in with the paving joints giving an aesthetic solution.

Brickslot 200 offers increased capacity via a double spaced Twinslot, or a central twin Heel-resistant slot.

Stainless steel Brickslot is the same system, but is manufactured entirely in grade 304 stainless steel. Stainless steel Brickslot should be used where increased aesthetics are desired, or where increased corrosion resistance is required.

**Typical Applications:**

- Pedestrian plazas
- Aesthetic areas
- Paved areas
- Sidewalks

### BRICKSLOT 200 SELECTION CRITERIA

| | |
|---|---|
| A ▶▶▶▶ C | Light to industrial duty loads |
| | Product can be used towards LEED & EPA requirements |
| | Resistant to many everyday chemicals |
| | Multiple grate options to meet legal requirements |
| | Increased hydraulic capacity |
| | Constant depth and/or sloped depth channels |

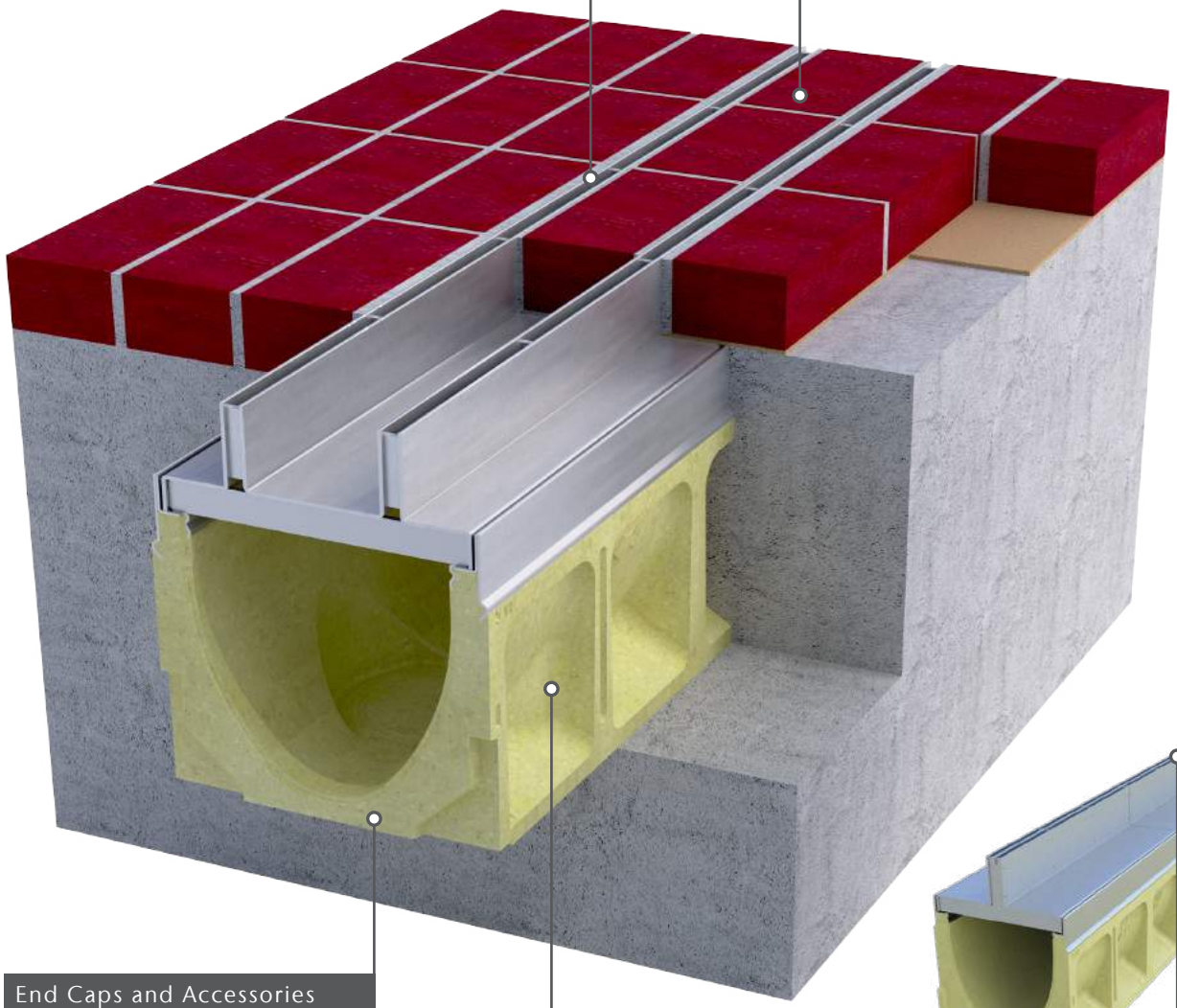
# Brickslot 200 Features

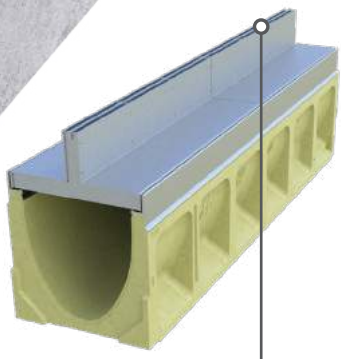
### Brick Pavers

Fit directly against slot. For light duty pedestrian applications, pavers can be set on sand; for heavier duty projects, pavers should be set on concrete. Maximum paver depth (allowing for 0.25" (6 mm) bedding material): 3.125" (80 mm).

### Two 6" Parallel 0.5" (12 mm) Slots

Easy-to-clean, smooth slots allow continuous water flow into the channel.





### End Caps and Accessories

Available from the K200 range.
See page 48 for details.

### Used with K200 Channel

Brickslot fits directly into K200 channel grate recess. Half meter sections are available. Half meter access units provide access to channel or catch basin for maintenance.
See page 48 for details.

### Heel-Resistant Option

Heel-Resistant Brickslot offers a double, 0.375" (8 mm) flared-opening slot to a 0.875" (22 mm) throat for increased drainage capacity.

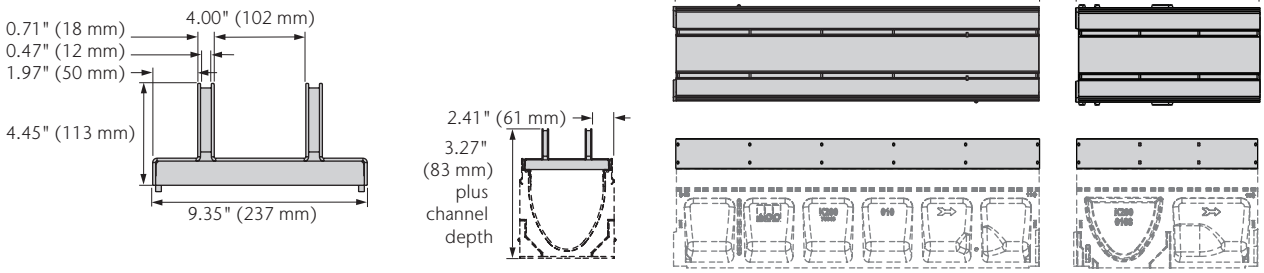
# Brickslot 200 Parts

| | Part No. | | Overall Depth | Weight | | | |
|---|---|---|---|---|---|---|---|
| | Galvanized | Stainless | in (mm) | lbs | | | |
| Type 641/643 - Twinslot 200 - 39.37" (1 m) | 138060 | 138065 | 4.45 (113) | 36.3 | ✓ | × | ✓ |
| Type 642/644 - Twinslot 200 - 19.69" (0.5 m) | 138061 | 138066 | 4.45 (113) | 18.7 | ✓ | × | ✓ |
| Type 682/684 - Twinslot 200 Access Unit - 19.69" (0.5 m) [3] | 138062 | 138067 | 4.45 (113) | 22.4 | ✓ | × | ✓ |
| Type 670/673 - Heel-Resistant Brickslot 200 - 39.37" (1 m) | 138070 | 138075 | 4.45 (113) | 28.2 | ✓ | ✓ | ✓ |
| Type 672/674 - Heel-Resistant Brickslot 200 - 19.69" (0.5 m) | 138071 | 138076 | 4.45 (113) | 17.8 | ✓ | ✓ | ✓ |
| Type 683/685 - Heel-Resistant Brickslot 200 Access Unit - 19.69" (0.5 m) [3] | 138072 | 138077 | 4.45 (113) | 20.4 | ✓ | ✓ | ✓ |
| Grate Removal Tool [4] | 01318 | | - | 0.3 | - | - | - |

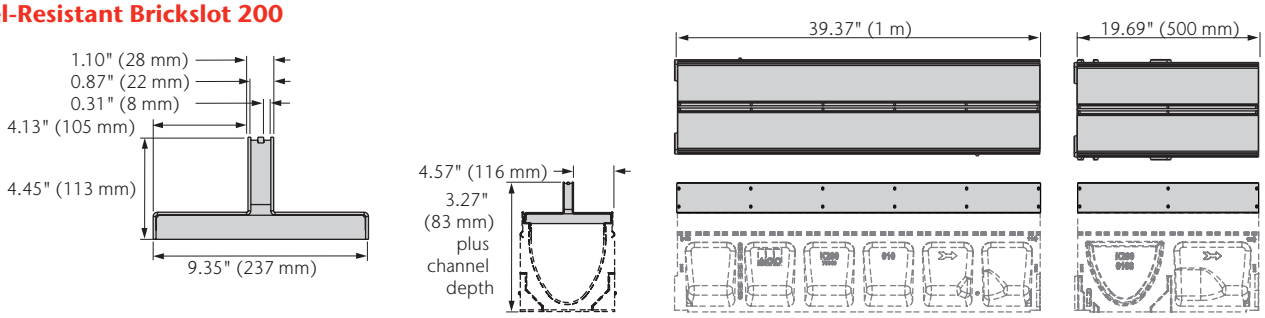
*Notes*

*1. For K200 channels and K2-900 catch basin information see page 48–49.*
*2. Brickslot can also be used with SlabDrain H200K/S channels - see page 135.*
*3. Access unit can be used on channels or catch basins - for details please refer to separate Spec Info sheets.*
*4. Only access cover can be removed once Brickslot has been installed.*
*5. For custom slot widths, heights or materials (eg. 316L stainless steel), ask us about our Aquaduct product line.*

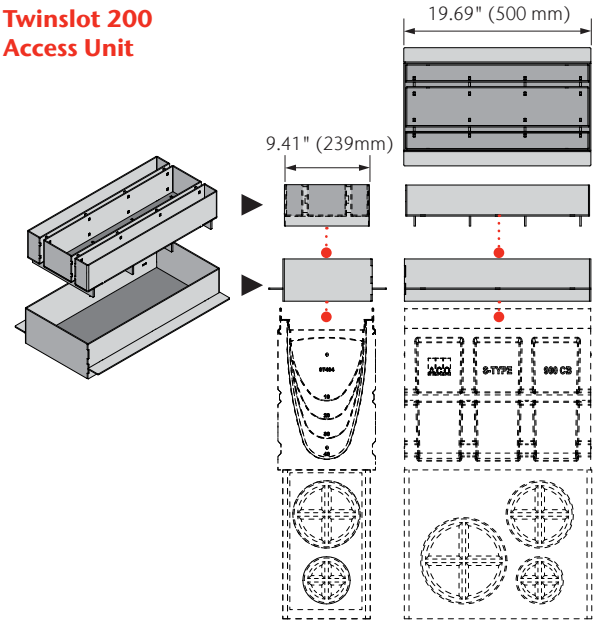
## Twinslot 200



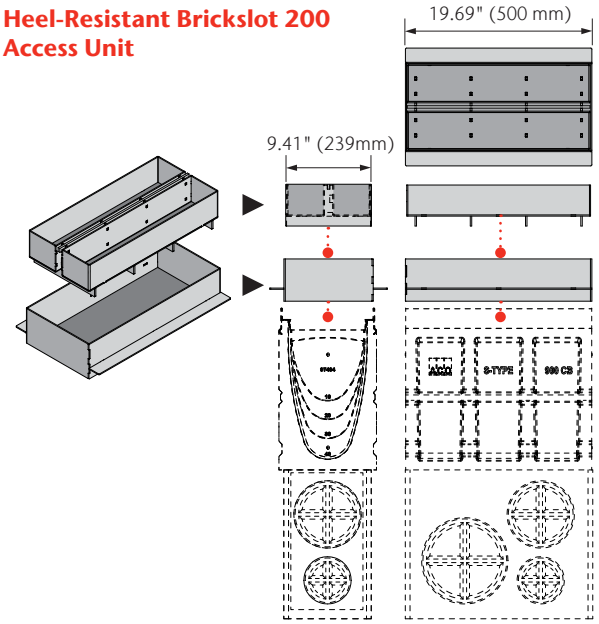

## Heel-Resistant Brickslot 200




## Twinslot 200 Access Unit

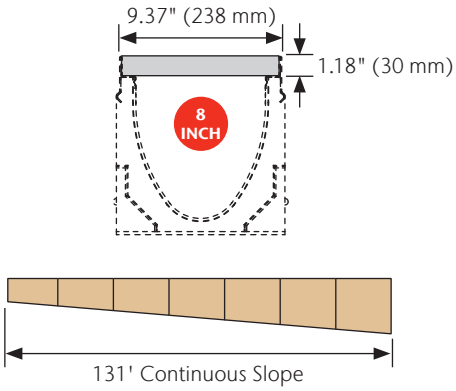



## Heel-Resistant Brickslot 200 Access Unit



# EcoPanel

## Permeable Paver Cover & 8" Internal Width Drainage Channel




EcoPanel is a stormwater trench drain cover constructed from permeable UV stable resin-bonded aggregate in a galvanized steel frame. The unique combination of a durable load bearing surface enclosed in an engineered frame allows for water infiltration under medium duty traffic.

EcoPanel linear permeable paver covers are installed into ACO's KlassikDrain K200 or SlabDrain H200 (8" internal width) channels.

EcoPanel is a unique and decorative drainage solution that can be used as a design element to create distinctive urban landscapes.

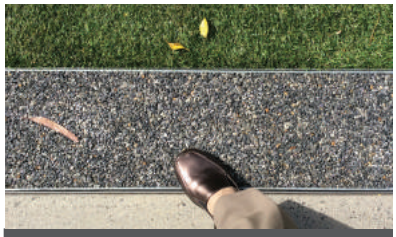
**Typical Applications:**

- Shopping Centers/Malls
- Pedestrian Plazas
- Bicycle Paths
- Playgrounds
- Parking Lots
- Parks

### ECOPANEL SELECTION CRITERIA

| | |
|---|---|
| A ▶▶▶▶ B | Pedestrian to light duty loads |
| | Product can be used towards LEED & EPA requirements |
| | Resistant to many everyday chemicals |
| | Multiple grate options to meet legal requirements |
| SAFE | Multiple grate options to meet design requirements |
| | Increased hydraulic capacity |
| | Constant depth and/or sloped depth channels |

# EcoPanel Features



**Pedestrian-Friendly**

Up to Load Class B (28,101 lbs). Suitable for pedestrian areas with slow moving commercial vehicles.

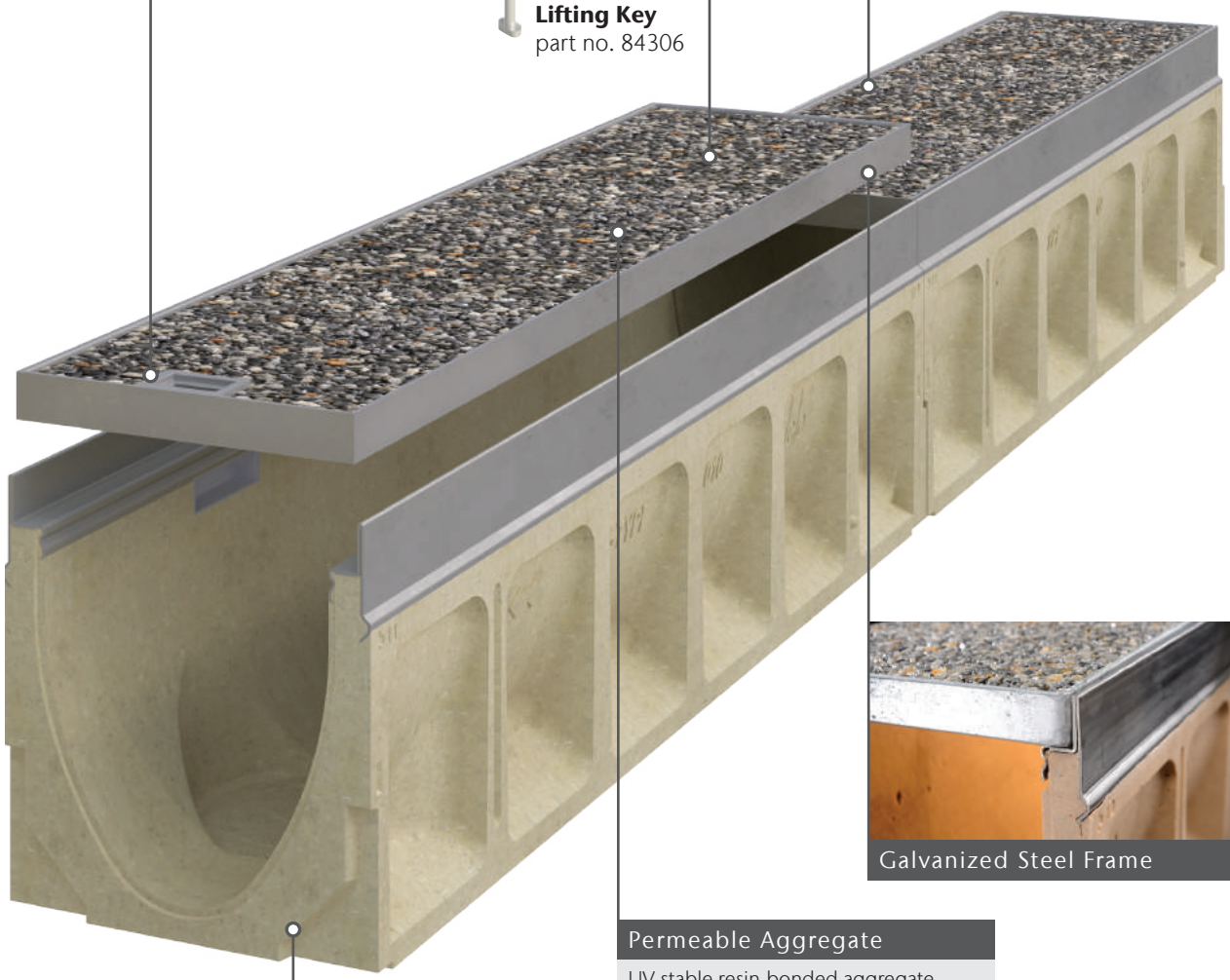
**Access Unit - 39.37" (1 m)**

With lifting key and keyhole.

**Lifting Key**
part no. 84306

**Standard Unit - 39.37" (1 m)**

No lifting keyhole.





**Galvanized Steel Frame**

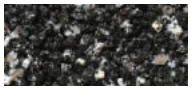
**Permeable Aggregate**

UV stable resin-bonded aggregate available in eight colors.

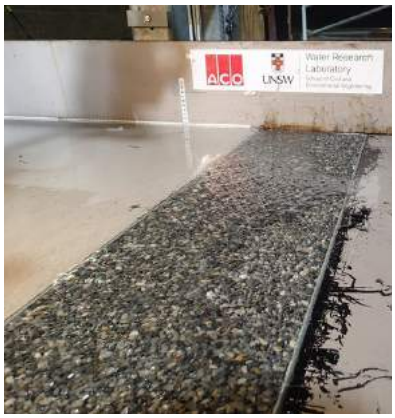
**K200 Channel**

Constant depth or sloped.

## EcoPanel Color and Material

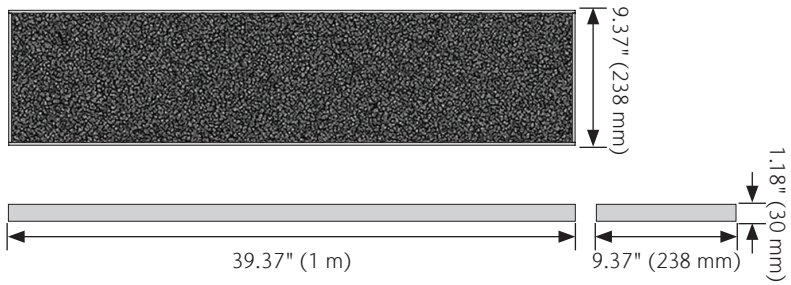
| | | Part No. | | Weight lbs |
|---|---|---|---|---|
| | | Standard Unit | Access Unit | |
| | Black Granite | **142742** | **142743** | 50.7 |
| | Blue Marble | **142744** | **142745** | 50.7 |
| | Silver Marble | **142746** | **142747** | 50.7 |
|  | Starlight Granite | **142748** | **142749** | 50.7 |
| | Sand Marble | **142750** | **142751** | 50.7 |
| | Gold Marble | **142752** | **142753** | 50.7 |
| | Gray Marble | **142754** | **142755** | 50.7 |
| | Red Granite | **142756** | **142757** | 50.7 |

**Porous Aggregate**
Water permeates through the EcoPanel to the channel below.



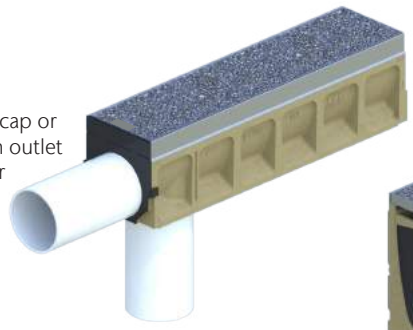

**Hydraulically Tested**
Water Research Laboratory at UNSW Sydney.

## EcoPanel Standard Unit




## EcoPanel Connection Options

Outlet cap or bottom outlet adapter
pg. 48

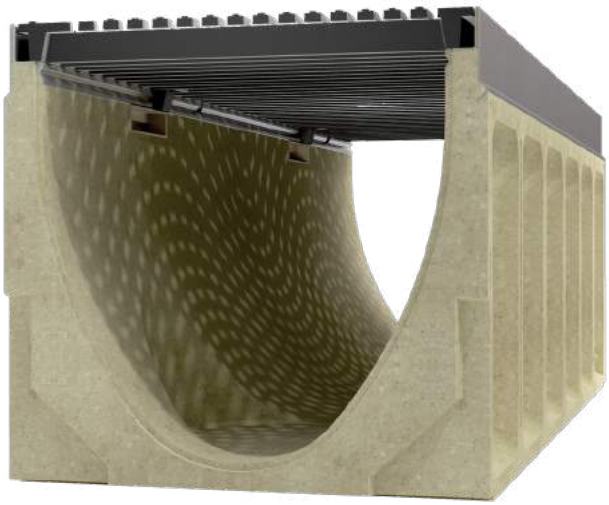


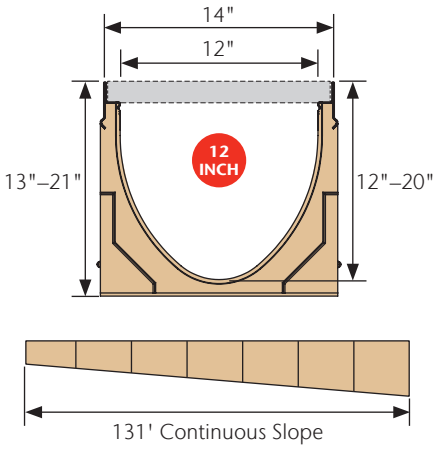
K2 Series 900 in-line catch basin with K200 19.69" (0.5 m) channel (EcoPanel grate covers both)
pg. 49

K2 Series 600 12" wide catch basin
pg. 49

# KlassikDrain K300/KS300

## 12" Internal Width General Purpose System






K300 is a 12" wide system with galvanized steel edge rail and wide choice of grates in different materials and slot styles up to Load Class E (60 ton) featuring either patented DrainLok or QuickLok® boltless locking systems.

KS300 is the same system, but the edge rail is grade 304 stainless steel. KS300 should be used where increased aesthetics are required, or where increased corrosion resistance is required.

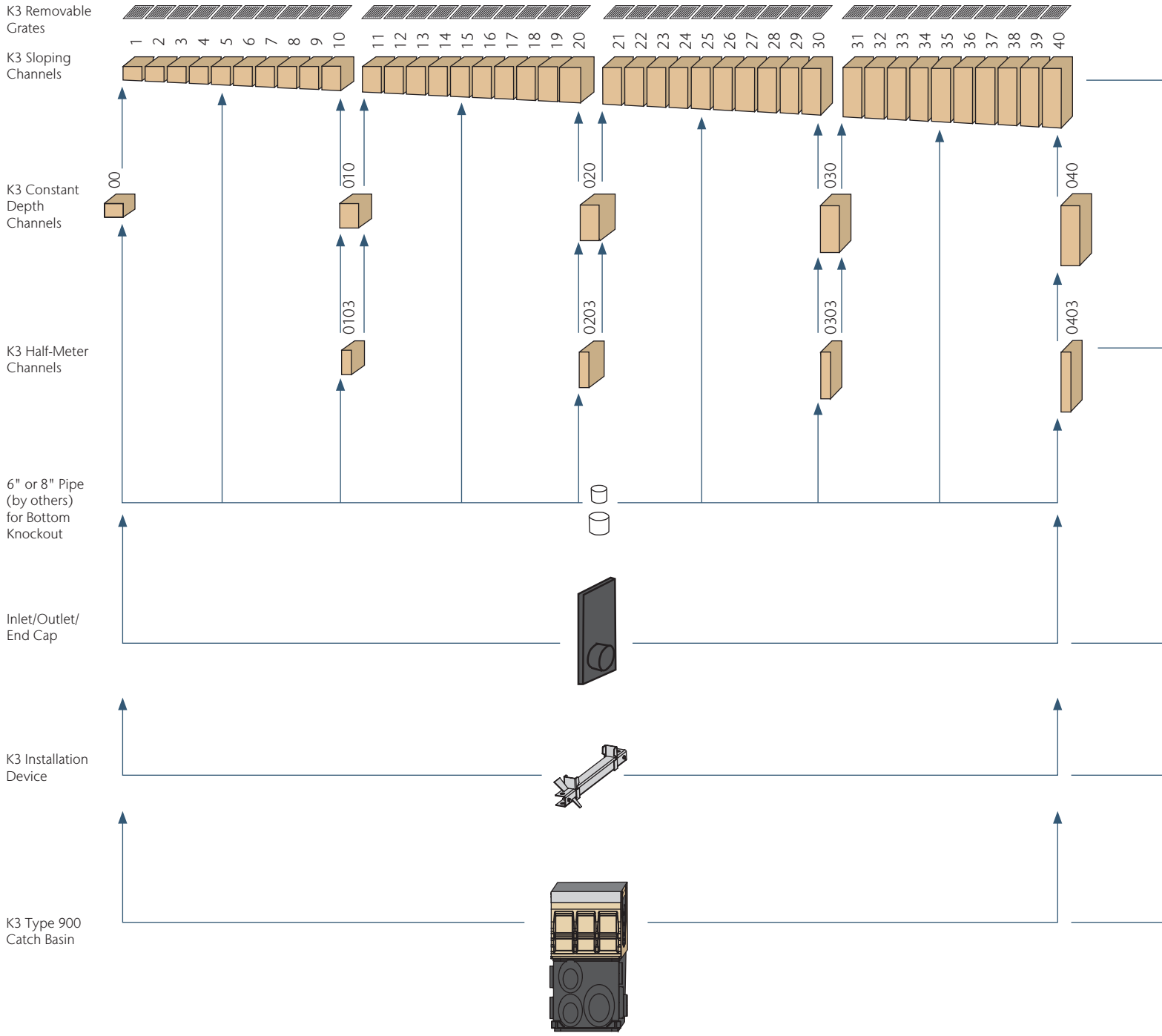
**Typical Applications:**

- Parking lots & garages
- Shopping malls
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications

### KLASSIKDRAIN K300/KS300 SELECTION CRITERIA

| | |
|---|---|
| A ▶▶▶▶ E | Light to industrial duty loads |
| | Product can be used towards LEED & EPA requirements |
| | Resistant to many everyday chemicals |
| | Multiple grate options to meet legal requirements |
| SAFE | Multiple grate options to meet design requirements |
| | Maximum hydraulic capacity |
| | Constant depth and/or sloped depth channels |

# K300/KS300 System Layout






*Note: K3 Universal Inlet/Outlet/End Cap, Installation Devices and Catch Basins can be placed at either end of any channel within the system.*

### K3 Meter Channels - Sloping & Constant Depth

0.5% sloped channels in meter lengths and 40 depths which connect to create 40 meter (131'-2") continuously sloping run. Available with either galvanized or stainless steel edge rail.

Constant depth channels available in 5 depths. Can be used to create non-sloped runs, or inserted in sloped runs to increase length.

Bottom knockouts on all constant depths and 5, 10, 15, 20, 25, 30, 35, 40 channels.

### K3 Half-Meter Channels

Constant depth channels in 4 depths supplement meter channels. Side knockout and profiling enable side junction to be created. Bottom knockouts on all half meter channels. Available with either galvanized or stainless steel edge rail.

### K3 Universal Inlet/Outlet/End Cap

Fits all channels and manufactured from ABS plastic to complement edge rail. Guides aid cutting to correct height. Wings clip cap onto end of channel. 6", 8" and 10" bell end connection to SCH 40 pipe. Seal using PVC-ABS cement.

### K3 Installation Device

Fits molded recesses on body of channel. Provides height and joint alignment - a sliding clamp locks the two channels together. Bolt to rebar on either side of channel to hold channels in place during concrete pour. Not reusable; it is encased within concrete pour.

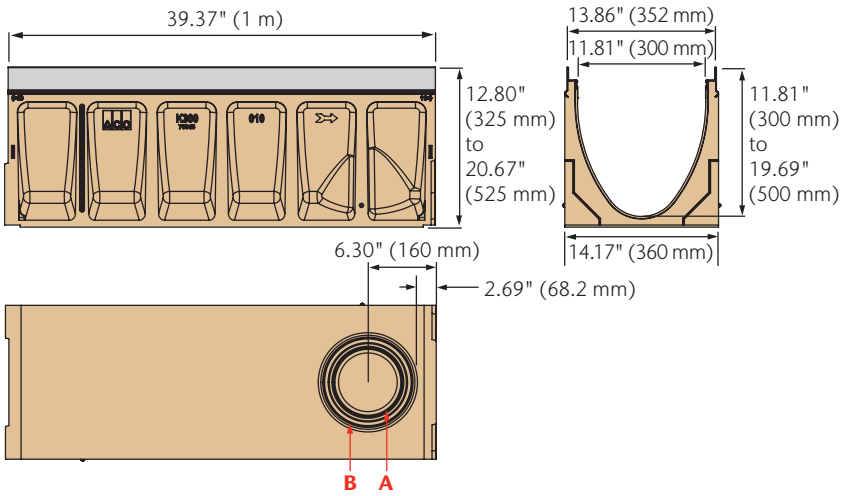
### K3 Series 900 In-Line Catch Basins

Two-part in-line catch basin with either a plastic base with 4", 6" and 8" drill-outs for pipe connection or a polymer concrete base. Supplied with plastic trash bucket. Options include an in-line or side foul air trap. Available with either galvanized or stainless steel edge rail.

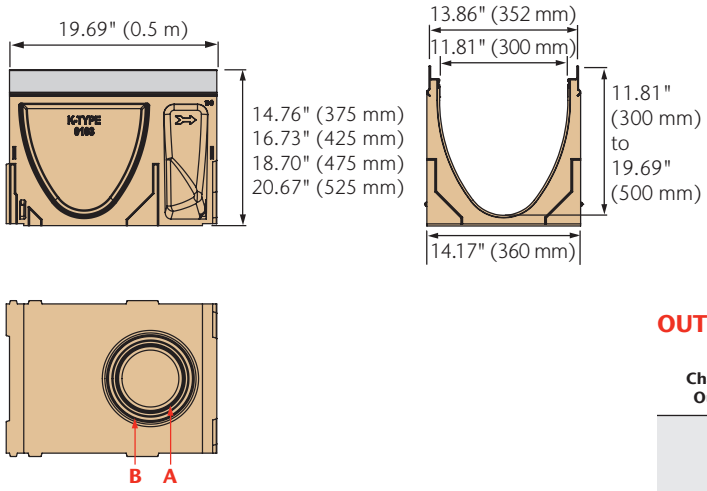
Any channel can be connected into the catch basin by removing the end wall to the correct height with a box cutter. Cut-out guides provided for connection to channels 00, 010, 020, 030 and 040. All cut-outs to receive male channel ends. One blanking end plate supplied with in-line catch basin.

# Dimensions & Outlet Flow Rates

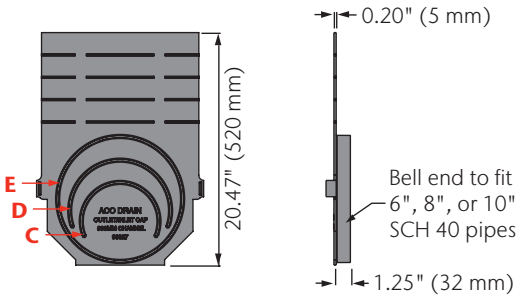
## K3 Meter Channels



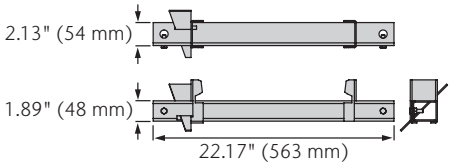

## K3 Half-Meter Channels




## K3 Universal Inlet/Outlet/End Cap




## K3 Installation Device




## OUTLET FLOW RATES

| Channel Outlet | Channel | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|---|
| A | K3-00 | 6" round | 11.81 | 421 | 0.94 |
| | K3-40 | 6" round | 19.69 | 544 | 1.21 |
| B | K3-00 | 8" round | 11.81 | 748 | 1.67 |
| | K3-40 | 8" round | 19.69 | 966 | 2.15 |
| C | K3-00 | 6" round | 11.81 | 364 | 0.81 |
| | K3-40 | 6" round | 19.69 | 500 | 1.11 |
| D | K3-10 | 8" round | 13.78 | 681 | 1.52 |
| | K3-40 | 8" round | 19.69 | 863 | 1.92 |
| E | K3-20 | 10" round | 15.75 | 1116 | 2.49 |
| | K3-40 | 10" round | 19.69 | 1304 | 2.91 |

*Note: These are pipe flow rates at specified outlet, NOT channel flow rates.*

# K300/KS300 Parts

| | Part No. | | Invert Depth | | | | Overall Depth | | | | Volume | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K300 | KS300 | in | | mm | | in | | mm | | gal | lbs |
| | | | female | male | female | male | female | male | female | male | | |
| **K3-00 - Constant Depth Channel - 39.37" (1 m)*** | **76041** | **76441** | **11.81** | **11.81** | **300** | **300** | **12.80** | **12.80** | **325** | **325** | **18.01** | **132.6** |
| K3-1 Sloped Channel - 39.37" (1 m) | **76001** | **76401** | 11.81 | 12.01 | 300 | 305 | 12.80 | 12.99 | 325 | 330 | 19.58 | 132.6 |
| K3-2 Sloped Channel - 39.37" (1 m) | **76002** | **76402** | 12.01 | 12.20 | 305 | 310 | 12.99 | 13.19 | 330 | 335 | 20.01 | 133.8 |
| K3-3 Sloped Channel - 39.37" (1 m) | **76003** | **76403** | 12.20 | 12.40 | 310 | 315 | 13.19 | 13.39 | 335 | 340 | 20.44 | 135.0 |
| K3-4 Sloped Channel - 39.37" (1 m) | **76004** | **76404** | 12.40 | 12.60 | 315 | 320 | 13.39 | 13.58 | 340 | 345 | 20.86 | 136.2 |
| K3-5 Sloped Channel - 39.37" (1 m)* | **76005** | **76405** | 12.60 | 12.80 | 320 | 325 | 13.58 | 13.78 | 345 | 350 | 21.28 | 137.4 |
| K3-6 Sloped Channel - 39.37" (1 m) | **76006** | **76406** | 12.80 | 12.99 | 325 | 330 | 13.78 | 13.98 | 350 | 355 | 21.69 | 138.6 |
| K3-7 Sloped Channel - 39.37" (1 m) | **76007** | **76407** | 12.99 | 13.19 | 330 | 335 | 13.98 | 14.17 | 355 | 360 | 22.11 | 139.8 |
| K3-8 Sloped Channel - 39.37" (1 m) | **76008** | **76408** | 13.19 | 13.39 | 335 | 340 | 14.17 | 14.37 | 360 | 365 | 22.51 | 141.0 |
| K3-9 Sloped Channel - 39.37" (1 m) | **76009** | **76409** | 13.39 | 13.58 | 340 | 345 | 14.37 | 14.57 | 365 | 370 | 22.92 | 142.2 |
| K3-10 Sloped Channel - 39.37" (1 m)* | **76010** | **76410** | 13.58 | 13.78 | 345 | 350 | 14.57 | 14.76 | 370 | 375 | 23.32 | 143.4 |
| **K3-010 Constant Depth Channel - 39.37" (1 m)*** | **76043** | **76443** | **13.78** | **13.78** | **350** | **350** | **14.76** | **14.76** | **375** | **375** | **21.22** | **143.4** |
| **K3-0103 Constant Depth Channel - 19.69" (0.5 m)*** | **76044** | **76444** | **13.78** | **13.78** | **350** | **350** | **14.76** | **14.76** | **375** | **375** | **10.61** | **75.3** |
| K3-11 Sloped Channel - 39.37" (1 m) | **76011** | **76411** | 13.78 | 13.98 | 350 | 355 | 14.76 | 14.96 | 375 | 380 | 23.72 | 144.6 |
| K3-12 Sloped Channel - 39.37" (1 m) | **76012** | **76412** | 13.98 | 14.17 | 355 | 360 | 14.96 | 15.16 | 380 | 385 | 24.11 | 145.8 |
| K3-13 Sloped Channel - 39.37" (1 m) | **76013** | **76413** | 14.17 | 14.37 | 360 | 365 | 15.16 | 15.35 | 385 | 390 | 24.51 | 147.0 |
| K3-14 Sloped Channel - 39.37" (1 m) | **76014** | **76414** | 14.37 | 14.57 | 365 | 370 | 15.35 | 15.55 | 390 | 395 | 24.89 | 148.2 |
| K3-15 Sloped Channel - 39.37" (1 m)* | **76015** | **76415** | 14.57 | 14.76 | 370 | 375 | 15.55 | 15.75 | 395 | 400 | 25.27 | 149.4 |
| K3-16 Sloped Channel - 39.37" (1 m) | **76016** | **76416** | 14.76 | 14.96 | 375 | 380 | 15.75 | 15.94 | 400 | 405 | 25.68 | 150.6 |
| K3-17 Sloped Channel - 39.37" (1 m) | **76017** | **76417** | 14.96 | 15.16 | 380 | 385 | 15.94 | 16.14 | 405 | 410 | 26.06 | 151.8 |
| K3-18 Sloped Channel - 39.37" (1 m) | **76018** | **76418** | 15.16 | 15.35 | 385 | 390 | 16.14 | 16.34 | 410 | 415 | 26.44 | 153.0 |
| K3-19 Sloped Channel - 39.37" (1 m) | **76019** | **76419** | 15.35 | 15.55 | 390 | 395 | 16.34 | 16.54 | 415 | 420 | 26.83 | 154.2 |
| K3-20 Sloped Channel - 39.37" (1 m)* | **76020** | **76420** | 15.55 | 15.75 | 395 | 400 | 16.54 | 4.92 | 420 | 125 | 27.21 | 155.4 |
| **K3-020 Constant Depth Channel - 39.37" (1 m)*** | **76045** | **76445** | **15.75** | **15.75** | **400** | **400** | **16.73** | **16.73** | **425** | **425** | **24.53** | **155.4** |
| **K3-0203 Constant Depth Channel - 19.69" (0.5 m)*** | **76046** | **76446** | **15.75** | **15.75** | **400** | **400** | **16.73** | **16.73** | **425** | **425** | **12.27** | **82.3** |
| K3-21 Sloped Channel - 39.37" (1 m) | **76021** | **76421** | 15.75 | 15.94 | 400 | 405 | 16.73 | 16.93 | 425 | 430 | 27.59 | 156.7 |
| K3-22 Sloped Channel - 39.37" (1 m) | **76022** | **76422** | 15.94 | 16.14 | 405 | 410 | 16.93 | 17.13 | 430 | 435 | 27.97 | 157.9 |
| K3-23 Sloped Channel - 39.37" (1 m) | **76023** | **76423** | 16.14 | 16.34 | 410 | 415 | 17.13 | 17.32 | 435 | 440 | 28.34 | 159.1 |
| K3-24 Sloped Channel - 39.37" (1 m) | **76024** | **76424** | 16.34 | 16.54 | 415 | 420 | 17.32 | 17.52 | 440 | 445 | 28.72 | 160.3 |
| K3-25 Sloped Channel - 39.37" (1 m)* | **76025** | **76425** | 16.54 | 16.73 | 420 | 425 | 17.52 | 17.72 | 445 | 450 | 29.09 | 161.5 |
| K3-26 Sloped Channel - 39.37" (1 m) | **76026** | **76426** | 16.73 | 16.93 | 425 | 430 | 17.72 | 17.91 | 450 | 455 | 29.47 | 162.7 |
| K3-27 Sloped Channel - 39.37" (1 m) | **76027** | **76427** | 16.93 | 17.13 | 430 | 435 | 17.91 | 18.11 | 455 | 460 | 29.84 | 163.9 |
| K3-28 Sloped Channel - 39.37" (1 m) | **76028** | **76428** | 17.13 | 17.32 | 435 | 440 | 18.11 | 18.31 | 460 | 465 | 30.21 | 165.1 |
| K3-29 Sloped Channel - 39.37" (1 m) | **76029** | **76429** | 17.32 | 17.52 | 440 | 445 | 18.31 | 18.50 | 465 | 470 | 30.58 | 166.3 |
| K3-30 Sloped Channel - 39.37" (1 m)* | **76030** | **76430** | 17.52 | 17.72 | 445 | 450 | 18.50 | 18.70 | 470 | 475 | 30.95 | 167.5 |
| **K3-030 Constant Depth Channel - 39.37" (1 m)*** | **76047** | **76447** | **17.72** | **17.72** | **450** | **450** | **18.70** | **18.70** | **475** | **475** | **27.87** | **167.5** |
| **K3-0303 Constant Depth Channel - 19.69" (0.5 m)*** | **76048** | **76448** | **17.72** | **17.72** | **450** | **450** | **18.70** | **18.70** | **475** | **475** | **13.94** | **89.5** |
| K3-31 Sloped Channel - 39.37" (1 m) | **76031** | **76431** | 17.72 | 17.91 | 450 | 455 | 18.70 | 18.90 | 475 | 480 | 31.32 | 168.7 |
| K3-32 Sloped Channel - 39.37" (1 m) | **76032** | **76432** | 17.91 | 18.11 | 455 | 460 | 18.90 | 19.09 | 480 | 485 | 31.69 | 169.9 |
| K3-33 Sloped Channel - 39.37" (1 m) | **76033** | **76433** | 18.11 | 18.31 | 460 | 465 | 19.09 | 19.29 | 485 | 490 | 32.06 | 171.1 |
| K3-34 Sloped Channel - 39.37" (1 m) | **76034** | **76434** | 18.31 | 18.50 | 465 | 470 | 19.29 | 19.49 | 490 | 495 | 32.42 | 172.3 |
| K3-35 Sloped Channel - 39.37" (1 m)* | **76035** | **76435** | 18.50 | 18.70 | 470 | 475 | 19.49 | 19.69 | 495 | 500 | 32.79 | 173.5 |
| K3-36 Sloped Channel - 39.37" (1 m) | **76036** | **76436** | 18.70 | 18.90 | 475 | 480 | 19.69 | 19.88 | 500 | 505 | 33.16 | 174.7 |
| K3-37 Sloped Channel - 39.37" (1 m) | **76037** | **76437** | 18.90 | 19.09 | 480 | 485 | 19.88 | 20.08 | 505 | 510 | 33.52 | 175.9 |
| K3-38 Sloped Channel - 39.37" (1 m) | **76038** | **76438** | 19.09 | 19.29 | 485 | 490 | 20.08 | 20.28 | 510 | 515 | 33.88 | 177.1 |
| K3-39 Sloped Channel - 39.37" (1 m) | **76039** | **76439** | 19.29 | 19.49 | 490 | 495 | 20.28 | 20.47 | 515 | 520 | 34.25 | 178.3 |
| K3-40 Sloped Channel - 39.37" (1 m)* | **76040** | **76440** | 19.49 | 19.69 | 495 | 500 | 20.47 | 20.67 | 520 | 525 | 34.61 | 179.5 |
| **K3-040 Constant Depth Channel - 39.37" (1 m)*** | **76049** | **76449** | **19.69** | **19.69** | **500** | **500** | **20.67** | **20.67** | **525** | **525** | **31.25** | **179.5** |
| **K3-0403 Constant Depth Channel - 19.69" (0.5 m)*** | **76050** | **76450** | **19.69** | **19.69** | **500** | **500** | **20.67** | **20.67** | **525** | **525** | **15.63** | **97.7** |
| K3 Universal Inlet/Outlet/End Cap | **96826** | | 19.69 | 19.69 | 500 | 500 | 20.47 | 20.47 | 520 | 520 | - | 2.5 |
| K3 Installation Device | **97479** | | - | - | - | - | - | - | - | - | - | 4.9 |
| Grate Removal Tool | **01318** | | - | - | - | - | - | - | - | - | - | 0.3 |
| QuickLok® Locking Bar | **10458** | | - | - | - | - | - | - | - | - | - | 0.7 |

*Notes:*

*1. K300 has a galvanized steel edge rail for general use. KS300 has a grade 304 stainless steel edge rail for use where increased aesthetics or corrosion resistance is required.*

*2. KlassikDrain is sold as channel only. Choose appropriate grate from pages 77–78.*

*3. See Catch Basin Parts List on page 71.*

**This channel features 6" & 8" bottom knockouts.*

# Catch Basin Assemblies & Part Details

Polymer concrete catch basins can be used as standalone area drains or as the outlet to a trench run. They provide the highest hydraulic output and allow access to the pipe system for maintenance.

Series 900 catch basins are **in-line catch basins** (same width and visually indistinguishable from the trench run).

## CATCH BASIN LOAD STRENGTH

Catch basins with plastic risers/bases should be used in load classes A–D. For heavy duty applications, ACO recommends using polymer concrete risers and catch basins for load class E/F applications.

## K300/KS300 Catch Basin Parts

| | Part No. | | Volume* | Weight |
|---|---|---|---|---|
| | K300 | KS300 | gal | lbs |
| K3-903 In-Line Catch Basin w/ Plastic Base | **94614** | **94615** | 30.4 | 88.0 |
| K3-907 In-Line Catch Basin w/ Polymer Concrete Base | **97919** | **97920** | 32.7 | 147.3 |
| K3-904 In-Line Catch Basin w/ Plastic Riser & Base | **94635** | **94636** | 40.2 | 98.0 |
| K3-908 In-Line Catch Basin w/ Polymer Concrete Riser & Base | **97929** | **97930** | 41.6 | 192.3 |
| Series 600 Plastic Riser | **99902** | | 9.8 | 10.0 |
| Series 611 Polymer Concrete Riser | **91110** | | 8.9 | 45.0 |
| Foul Air Trap (fits all plastic basins) | **90854** | | - | 1.2 |

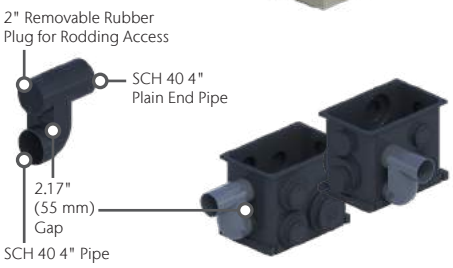
**Volume is up to grate seat and without trash bucket.*

## BLANKING END PLATES

Blanking plates are supplied with catch basin tops to stop concrete ingress at end of drain run. The plate is fitted by pushing it over the polymer concrete end bar to fit flush with side rails.

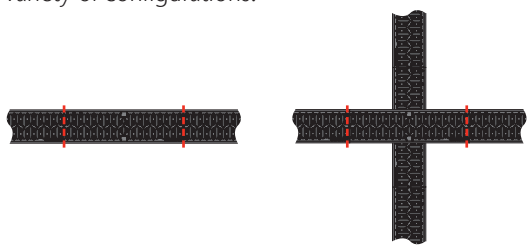
## FOUL AIR TRAP

A plastic foul air trap that fits into the front or side of plastic in-line catch basins. A coupler is required to connect SCH 40 4" plain end pipe to underground pipe system.




## CATCH BASIN CHANNEL CONNECTION

Channels can be connected to catch basin on all four sides in a variety of configurations.



**Series 900 Grates** - choice of grates to match channel grates with DrainLok or QuickLok® boltless locking. See page 77–78. QuickLok® grates are often paired with removable QuickLok® locking bars for easy access to trash bucket and pipework. One is included in each catch basin assembly.

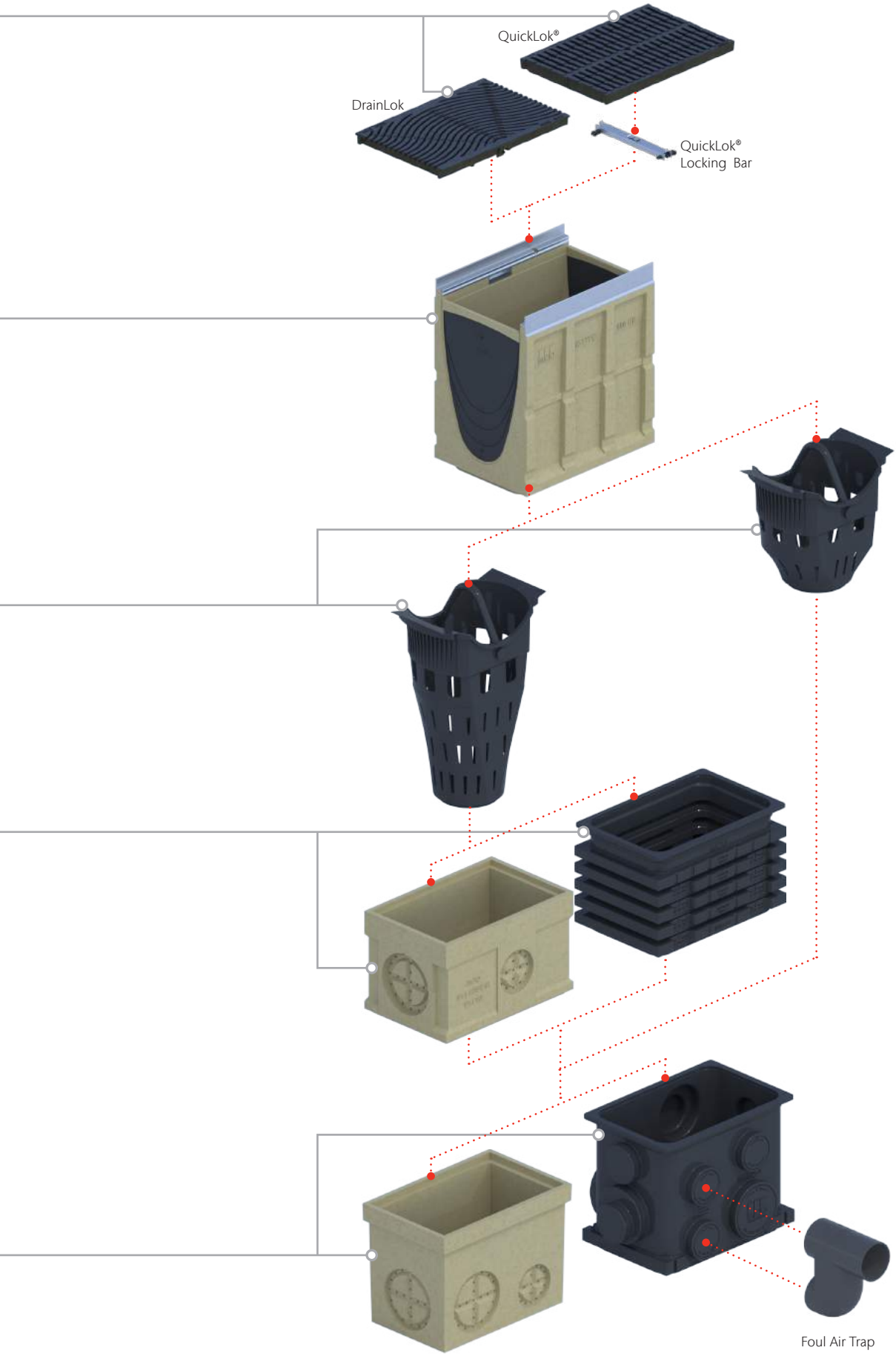
**Top Section** - polymer concrete with integrally cast-in galvanized or stainless steel frame. Guides aid connection of male channel ends at #10, 20, 30 and 40 depths. Other channels can be connected by removing wall to required height. Blanking kit supplied with all catch basin options.

**Trash Bucket** - plastic trash bucket designed to collect debris washed from trench run. Supported in catch basin top to avoid creation of a vacuum and reduction in outflow. K3-904 and K3-908 use a deeper bucket with riser.

**Riser** - a plastic or polymer concrete riser, supplied with K3-904 and K3-908, designed to provide additional catch basin depth and hydraulic output. Guides on the plastic version enable cutting to size at 2" (50 mm) intervals - minimum 2" and maximum 12" height. Additional units can be used (a maximum of 2 is recommended to ensure snake access is maintained and for structural stability).
*Multiple risers can be used.*

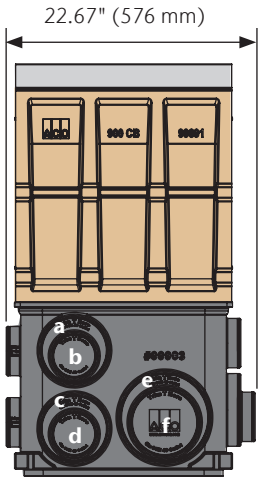
**Base** - Plastic or or polymer concrete base available. Plastic bases have a range of SCH 40 4", 6" and 8" cut-outs for easy pipe connection. Cut-outs on end and side allow connection of ACO foul air trap. Polymer concrete bases have drill-outs cast on sides for pipe connections.

## K3 SERIES 900 12" WIDE IN-LINE CATCH BASINS

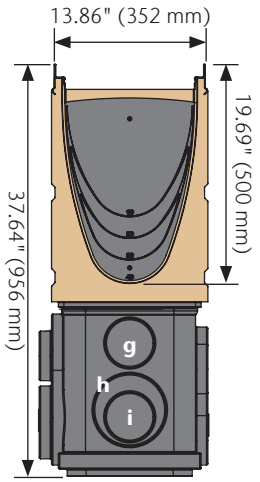


# Catch Basin Dimensions & Outlet Flow Rates

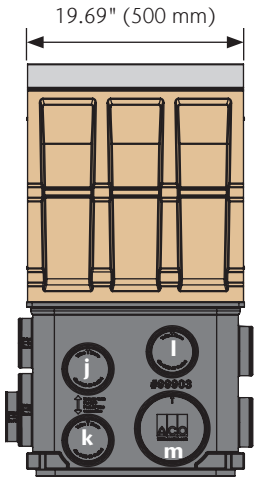
## K3-903G/S In-Line Catch Basin



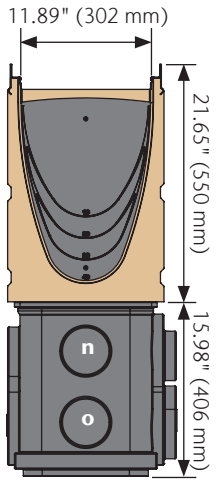

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 29.15 | 626 | 1.40 |
| b | 4" | 28.59 | 281 | 0.63 |
| c | 6" | 36.28 | 707 | 1.57 |
| d | 4" | 35.72 | 316 | 0.70 |
| e | 8" | 36.28 | 1237 | 2.76 |
| f | 6" | 35.72 | 701 | 1.56 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| g | 4" | 27.65 | 276 | 0.61 |
| h | 6" | 34.78 | 690 | 1.54 |
| i | 4" | 34.36 | 310 | 0.69 |



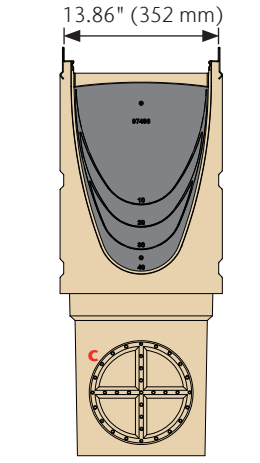

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 4" | 29.80 | 287 | 0.64 |
| k | 4" | 36.29 | 319 | 0.71 |
| l | 4" | 28.22 | 279 | 0.62 |
| m | 6" | 36.29 | 707 | 1.57 |



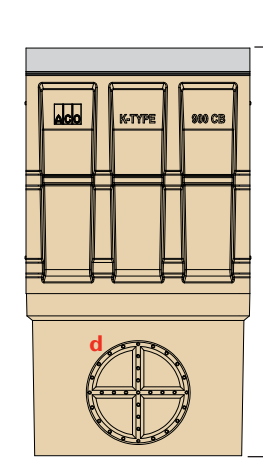

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| n | 4" | 28.37 | 280 | 0.62 |
| o | 4" | 34.87 | 312 | 0.70 |

## K3-907G/S In-Line Catch Basin

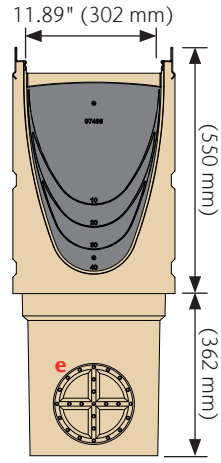
| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 34.35 | 686 | 1.53 |
| b | 4" | 34.32 | 310 | 0.69 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| c | 8" | 34.35 | 1199 | 2.67 |



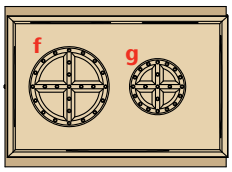

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| d | 8" | 34.35 | 1199 | 2.67 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| e | 6" | 34.35 | 686 | 1.53 |

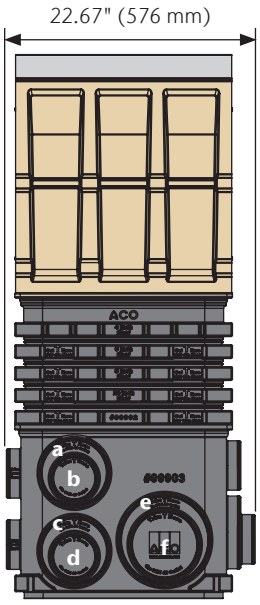
*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*

*Underside*

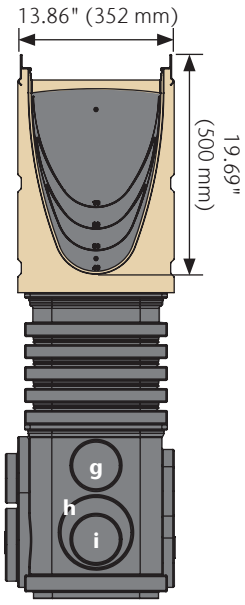



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| f | 6" | 35.90 | 734 | 1.69 |
| g | 4" | 35.90 | 326 | 0.75 |

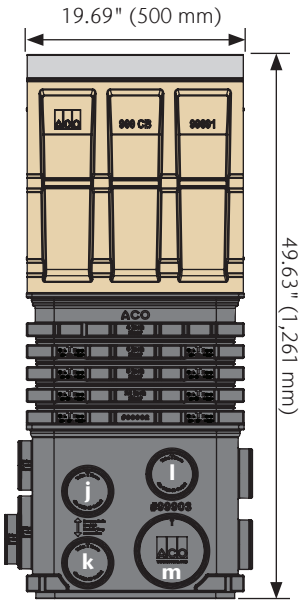
## K3-904G/S In-Line Catch Basin



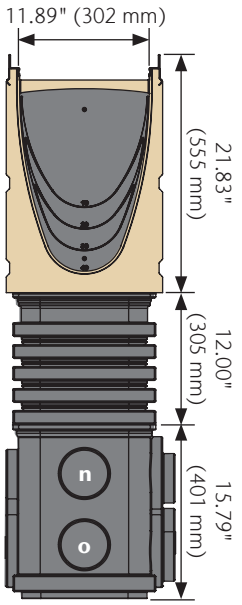

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 41.15 | 757 | 1.69 |
| b | 4" | 40.59 | 338 | 0.75 |
| c | 6" | 48.28 | 824 | 1.84 |
| d | 4" | 47.72 | 368 | 0.82 |
| e | 8" | 48.28 | 1449 | 3.23 |
| f | 6" | 47.72 | 819 | 1.83 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| g | 4" | 39.65 | 334 | 0.74 |
| h | 6" | 46.78 | 810 | 1.81 |
| i | 4" | 46.36 | 363 | 0.81 |




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 4" | 41.80 | 343 | 0.77 |
| k | 4" | 48.29 | 370 | 0.83 |
| l | 4" | 40.22 | 337 | 0.75 |
| m | 6" | 48.29 | 824 | 1.84 |

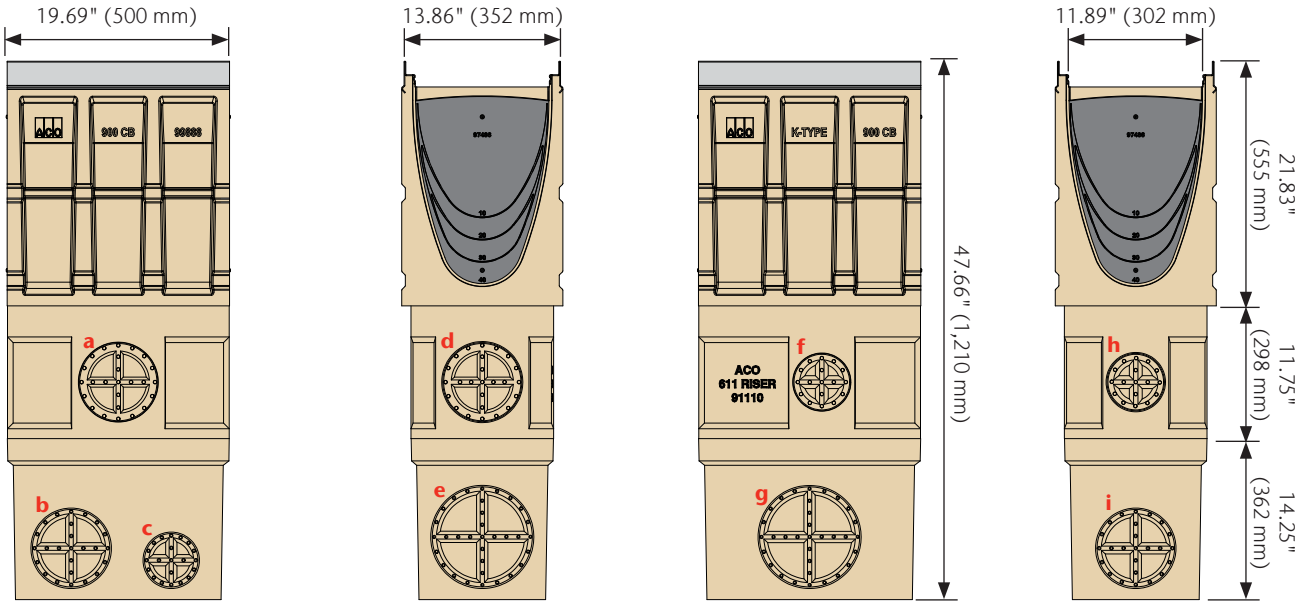



| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| n | 4" | 40.37 | 337 | 0.75 |
| o | 4" | 46.87 | 365 | 0.81 |

*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*

# Catch Basin Dimensions & Outlet Flow Rates (cont.)

## K3-908G/S In-Line Catch Basin




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| a | 6" | 31.65 | 655 | 1.51 |
| b | 6" | 46.35 | 806 | 1.85 |
| c | 4" | 46.42 | 363 | 0.83 |

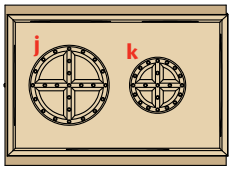
| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| d | 6" | 31.65 | 655 | 1.51 |
| e | 8" | 46.35 | 1416 | 3.26 |

| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| f | 4" | 30.65 | 291 | 0.67 |
| g | 8" | 46.35 | 1416 | 3.26 |

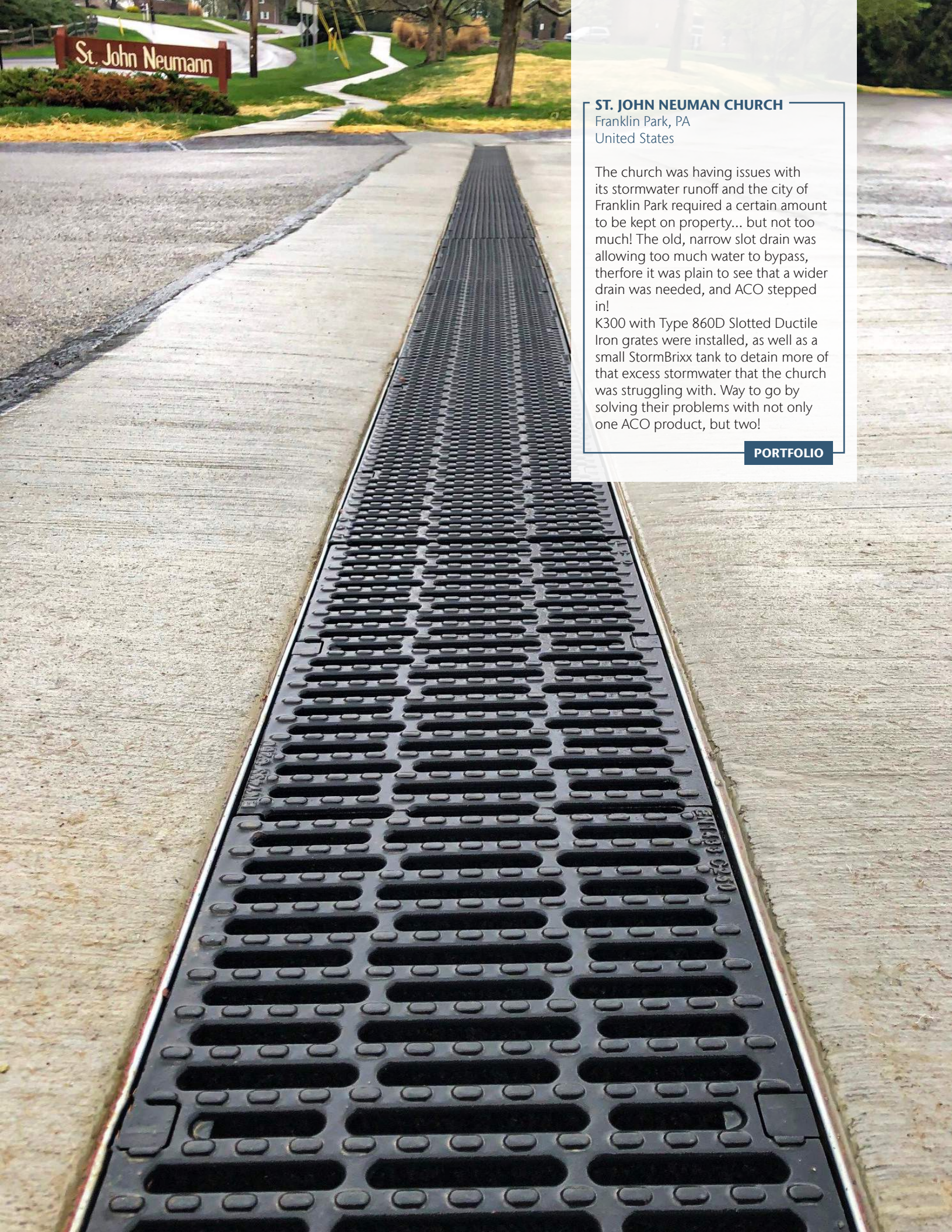
| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| h | 4" | 30.65 | 291 | 0.67 |
| i | 6" | 46.35 | 806 | 1.85 |

*Note: These are pipe flow rates at specified outlets, NOT channel flow rates. Catch basin flow rates are listed without a trash bucket—using a trash bucket reduces flow.*

*Underside*




| Catch Basin Outlet | Size (SCH 40) | Invert in | GPM | CFS |
|---|---|---|---|---|
| j | 6" | 47.66 | 845 | 1.94 |
| k | 4" | 47.66 | 376 | 0.86 |




## ST. JOHN NEUMAN CHURCH

Franklin Park, PA
United States

The church was having issues with its stormwater runoff and the city of Franklin Park required a certain amount to be kept on property... but not too much! The old, narrow slot drain was allowing too much water to bypass, therfore it was plain to see that a wider drain was needed, and ACO stepped in!
K300 with Type 860D Slotted Ductile Iron grates were installed, as well as a small StormBrixx tank to detain more of that excess stormwater that the church was struggling with. Way to go by solving their problems with not only one ACO product, but two!

**PORTFOLIO**

# K300/KS300 Grates - DrainLok

**KEY**

**ADA Compliant**
Compliant with Americans with Disabilities Act of 2010, Section 302.3 (page 174)

**Heel-Resistant**
ASME A112.6.3 - 2001 Heel-resistant slot width less than 0.31" (8 mm) (page 174)

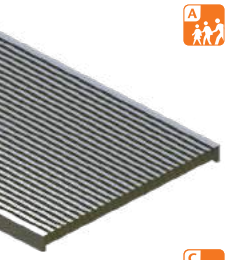
**Heel-Safe**
Heel-safe slot width equal or less than 0.25" (6.5 mm) (page 174)

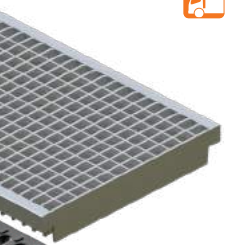
**Slip-Resistant Grates**
BPN over 24 (page 174)

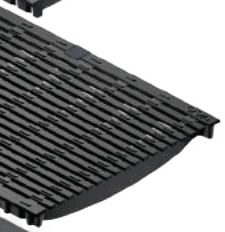
**Bicycle-Safe**
Compliant to Australian Standard AS 3996 - 2006 (page 174)

**Non-Metallic**
No metallic/magnetic parts included (page 170)

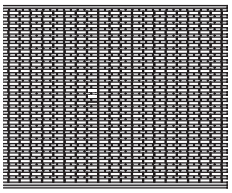
*For details on how psi is determined, see pages 161-166.*

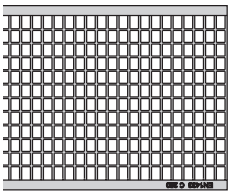


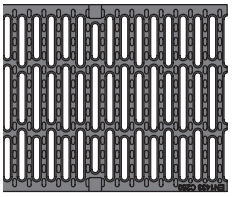


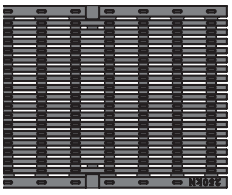


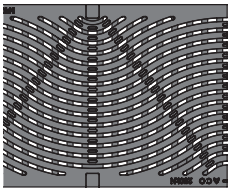
| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS A (EN 1433 - 15 KN) - 3,372 LBS - 58 PSI (PEDESTRIAN TRAFFIC)** | | | | | | | | | | |
| **LONGITUDINAL STEEL[1]** | | | | | | | | | | |
| Type 847D - Stainless | **142223** | 39.37 (1.0) | 0.81 x 0.24 | 263.2 | 29.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Type 848D - Stainless | **142224** | 19.69 (0.5) | | 131.6 | 14.0 | | | | | |
| **LOAD CLASS C (EN 1433 - 250 KN) - 56,202 LBS - 967 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | | |
| **MESH STEEL** | | | | | | | | | | |
| Type 805D - Galvanized | **133675** | 19.69 (0.5) | 0.63 x 0.87 | 163.7 | 26.2 | ✓ | × | × | × | ✓ |
| Type 830D - Stainless[1] | **133678** | 19.69 (0.5) | | 163.7 | 29.5 | | | | | |
| **SLOTTED IRON[4]** | | | | | | | | | | |
| Type 860D - Iron | **13870** | 19.69 (0.5) | 0.47 x 2.57 avg. | 88.1 | 38.0 | ✓ | × | × | × | ✓ |
| **LONGITUDINAL IRON[4]** | | | | | | | | | | |
| Type 876D - Iron | **99588** | 19.69 (0.5) | 1.97 x 0.24 | 64.3 | 35.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| **WAVE IRON[4]** | | | | | | | | | | |
| Type 880D - Iron | **99581** | 19.69 (0.5) | 0.27 x 0.9 avg. | 88.5 | 37.0 | ✓ | ✓ | ✓ | × | ✓ |











*Notes*
*1. Grade 304 stainless steel 2. Polypropylene material 3. Ductile iron to ASTM A536 Grade 65-45-12 4. Ductile iron to ASTM A536 Grade 80-55-06*

**DRAINLOK - BOLTLESS & BARLESS LOCKING SYSTEM**

Factory-fitted locking device removes need for bolts and bars and improves channel hydraulic capacity. The DrainLok mechanism clips into channel edge rail for rapid installation. DrainLok grates are fit with an anti-shunt mechanism that restricts unwanted grate movement when installed, improving durability and longevity of the system.

Fit grate

Position grate onto channel and align anti-shunt detail with recess in rail.

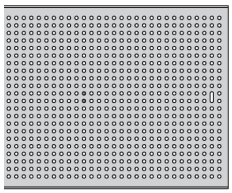
Push down or stand on grate until it clicks into position.

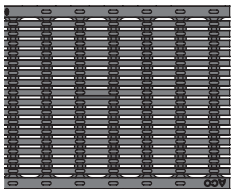
Remove grate

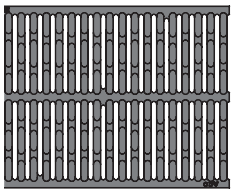
To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.

# K300/KS300 Grates - QuickLok®

| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS C (EN 1433 - 250 KN) - 56,202 LBS - 967 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | | |
| **PERFORATED STEEL** | | | | | | | | | | |
| Type 811Q - Galvanized | **98967** | 39.37 (1.0) | | 63.8 | 30.9 | × | | | | |
| Type 813Q - Galvanized | **98966** | 19.69 (0.5) | | 31.9 | 15.0 | × | | | | |
| | | | Ø 0.25 | | | | ✓ | ✓ | ✓ | ✓ |
| Type 865Q - Stainless[1] | **98968** | 39.37 (1.0) | | 63.8 | 30.9 | ✓ | | | | |
| Type 866Q - Stainless[1] | **98969** | 19.69 (0.5) | | 31.9 | 15.0 | ✓ | | | | |
| **LOAD CLASS E (EN 1433 - 600 KN) - 134,885 LBS - 2,321 PSI (INDUSTRIAL TRAFFIC)** | | | | | | | | | | |
| **LONGITUDINAL IRON[4]** | | | | | | | | | | |
| Type 878Q - Iron | **138130** | 19.69 (0.5) | 1.0 x 0.31 | 61.8 | 52.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| **SLOTTED IRON[4]** | | | | | | | | | | |
| Type 861Q - Iron | **10431** | 19.69 (0.5) | 0.39 x 5.71 | 97.0 | 58.0 | ✓ | × | × | × | ✓ |







## QUICKLOK® - BOLTLESS LOCKING SYSTEM

1

Fit locking bar

Locate locking bar in channel wall recesses by rotating clockwise.

2

Fit locking bar

Use hammer to tap bar into place, so that serrated ends grip in recess.

3

Fit grate

To install grate, align QuickLok® stud directly over locking bar.

4

Fit grate

Push down or stand on grate until it clicks into position.

5

Remove grate

To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.

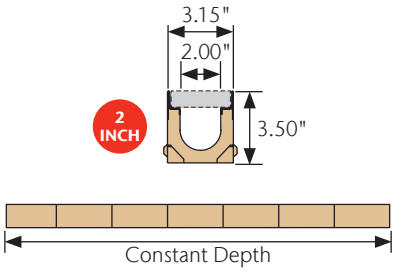
6

Remove grate

To remove bar, remove clips then insert screwdriver into hole at end of bar and lever back serrated end, rotate bar free.

# MiniKlassik K50/KS50

## 2" Internal Width General Purpose System




K50 is a 2" internal width system with galvanized steel edge rail for high profile, aesthetic applications where a barrier is required to separate wet and dry areas.

KS50 is the same system, but the edge rail is grade 304 stainless steel. KS50 should be used where increased aesthetics are required, or where increased corrosion resistance is required.

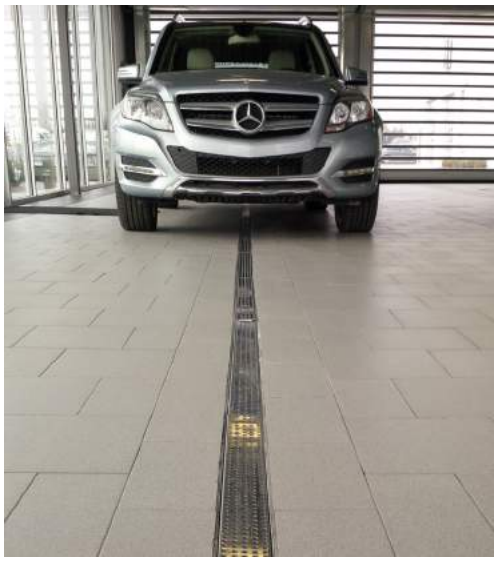
EN 1433 does not cover grates for 2" (50 mm) internal width trench drains, but grates have been load tested in accordance with EN 1433 guidelines. Grates feature patented DrainLok boltless locking systems. Loading is determined by grate up to Load Class C (25 ton).

**Typical Applications:**

- Pedestrian plazas
- Aesthetic areas
- Paved areas
- Sidewalks

### MINIKLASSIK K50/KS50 SELECTION CRITERIA

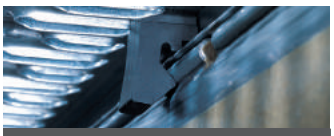
| | |
|---|---|
| A ▶▶▶▶ C | Light to medium duty loads |
| | Product can be used towards LEED & EPA requirements |
| | Resistant to many everyday chemicals |
| | Multiple grate options to meet legal requirements |
| SAFE | Multiple grate options to meet design requirements |
| | Limited hydraulic capacity |
| | Constant depth channels |



# MiniKlassik Features

## Wide Choice of Grates

Various materials and styles (including ADA compliant) for applications from Load Class A to Load Class C.

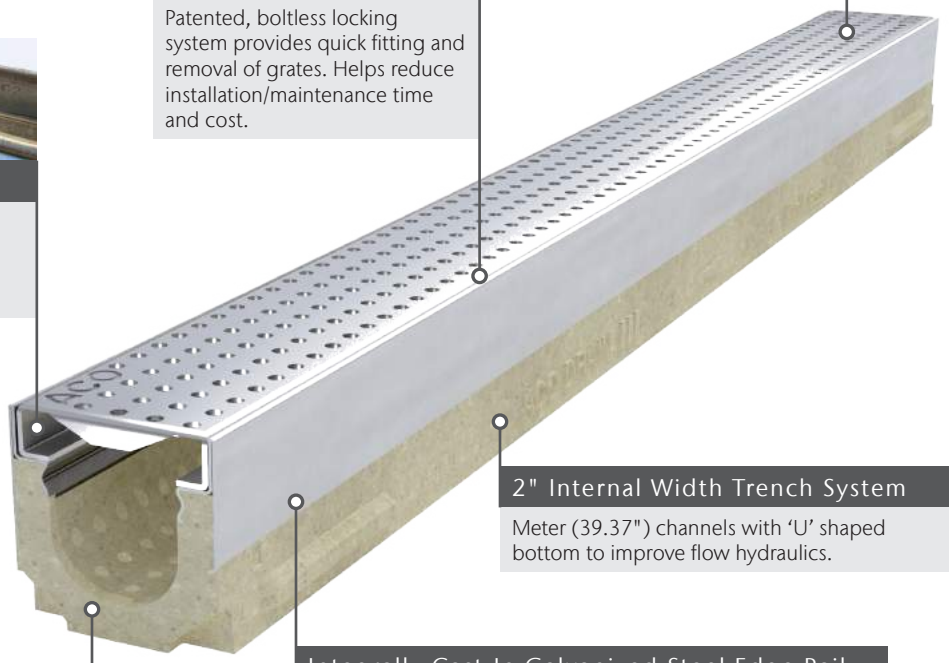


## DrainLok

Patented, boltless locking system provides quick fitting and removal of grates. Helps reduce installation/maintenance time and cost.

## Anti-Shunt Lugs

Protrusions in grate fit into recesses on the edge rail to prevent longitudinal movement.




## 2" Internal Width Trench System

Meter (39.37") channels with 'U' shaped bottom to improve flow hydraulics.

## Integrally Cast-In Galvanized Steel Edge Rail

Provides additional strength and protects the channel edge from damage. Stainless steel edge rail also available.

## Interconnecting End Profiles

Allow easy and effective joining of channels. Appropriate sealant can be used to create a sealed joint.

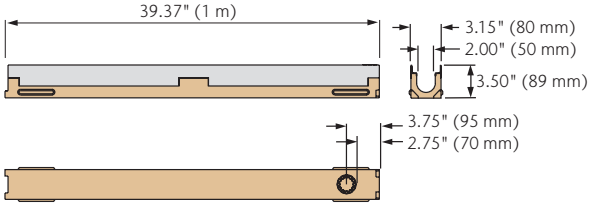
# K50/KS50 Parts

| | Part No. | | Invert Depth | Overall Depth | Volume | Weight |
|---|---|---|---|---|---|---|
| | K50 | KS50 | in (mm) | in (mm) | gal | lbs |
| **Constant Depth Channel - 39.37" (1 m)** | **04071** | **06750** | 2.90 (74) | 3.50 (89) | 0.64 | 18.0 |
| Steel Closing Cap | **95395** | **95403** | - | 3.50 (89) | - | 0.3 |

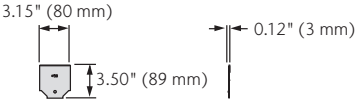
**Notes**

1. Preformed 1.5" dia. drill-out outlet on underside of channel provides a flow rate of 12.7 GPM - 0.03 CFS.
2. MiniKlassik does not fit with any ACO catch basin - discharge through vertical outlet only or contact ACO for additional advice.

## Meter Channel




## Closing Cap



**KEY**

**ADA Compliant**
Compliant with Americans with Disabilities Act of 2010, Section 302.3 (page 174)

**Heel-Resistant**
ASME A112.6.3 - 2001 Heel-resistant slot width less than 0.31" (8 mm) (page 174)

**Heel-Safe**
Heel-safe slot width equal or less than 0.25" (6.5 mm) (page 174)

**Slip-Resistant Grates**
BPN over 24 (page 174)

**Bicycle-Safe**
Compliant to Australian Standard AS 3996 - 2006 (page 174)

**Non-Metallic**
No metallic/magnetic parts included (page 170)

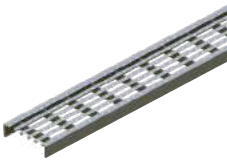
*For details on how psi is determined, see pages 161-166.*

## K50/KS50 Grates - Non-Locking

| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS A (EN 1433 - 15 KN) - 3,372 LBS - 70 PSI (PEDESTRIAN TRAFFIC)** | | | | | | | | | | |
| **PERFORATED STEEL** | | | | | | | | | | |
| Type 210D - Galvanized | **94699** | 39.37 (1.0) | Ø 0.23 | 14.5 | 4.0 | × | ✓ | ✓ | ✓ | ✓ |
| Type 251D - Stainless[1] | **95165** | 39.37 (1.0) | | 14.5 | 4.0 | | | | | |
| **SLOTTED STEEL** | | | | | | | | | | |
| Type 220D - Galvanized | **95537** | 39.37 (1.0) | 1.20 x 0.50 | 18.7 | 4.0 | × | × | × | × | ✓ |
| Type 250D - Stainless[1] | **95545** | 39.37 (1.0) | | 18.7 | 4.0 | | | | | |

## K50/KS50 Grates - DrainLok[5]

| | Part No. | Length in (m) | Slot Size in | Intake Area in² | Weight lbs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LOAD CLASS A (EN 1433 - 15 KN) - 3,372 LBS - 70 PSI (PEDESTRIAN TRAFFIC)** | | | | | | | | | | |
| **MOSAIC PLASTIC[2]** | | | | | | | | | | |
| Type 200D - Black | **138104** | 19.69 (0.5) | | 11.6 | 0.7 | | | | | |
| Type 201D - Gray | **138105** | 19.69 (0.5) | 0.3 x 1.2 avg. | 11.6 | 0.7 | × | ✓ | ✓ | × | ✓ |
| Type 202D - Tan | **138106** | 19.69 (0.5) | | 11.6 | 0.7 | | | | | |
| **LOAD CLASS B (EN 1433 - 125 KN) - 28,101 LBS - 580 PSI (LIGHT DUTY TRAFFIC)** | | | | | | | | | | |
| **LONGITUDINAL STEEL[1]** | | | | | | | | | | |
| Type 247D - Stainless | **142436** | 39.37 (1.0) | 1.46 x 0.24 | 14.9 | 5.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| **LOAD CLASS C (EN 1433 - 250 KN) - 56,202 LBS - 1,160 PSI (COMMERCIAL VEHICLE TRAFFIC)** | | | | | | | | | | |
| **LONGITUDINAL IRON[4]** | | | | | | | | | | |
| Type 276D - Iron | **138107** | 19.69 (0.5) | 1.5 x 0.29 | 17.4 | 7.3 | × | ✓ | ✓ | × | ✓ |



*Notes*
1. *Grade 304 stainless steel*
2. *Polypropylene material*
3. *Ductile iron to ASTM A536 Grade 65-45-12*
4. *Ductile iron to ASTM A536 Grade 80-55-06*
5. *DrainLok locking information can be found on page 36*