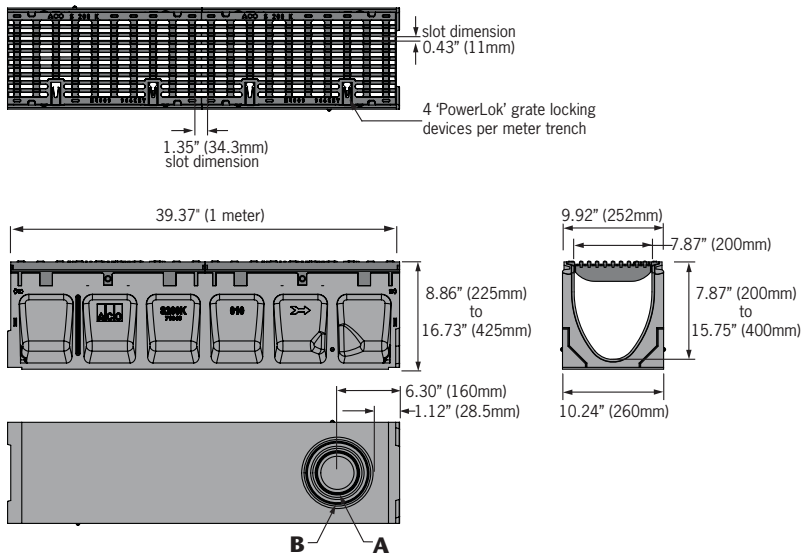


ACO DRAIN

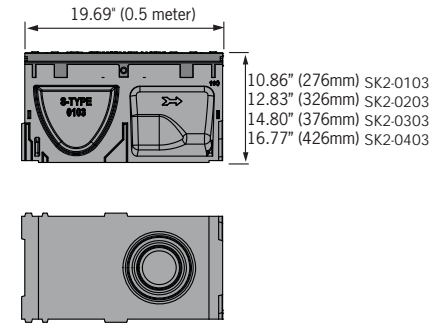
PowerDrain - S200K iron edged channel system with longitudinal grate (ADA)

One meter channel

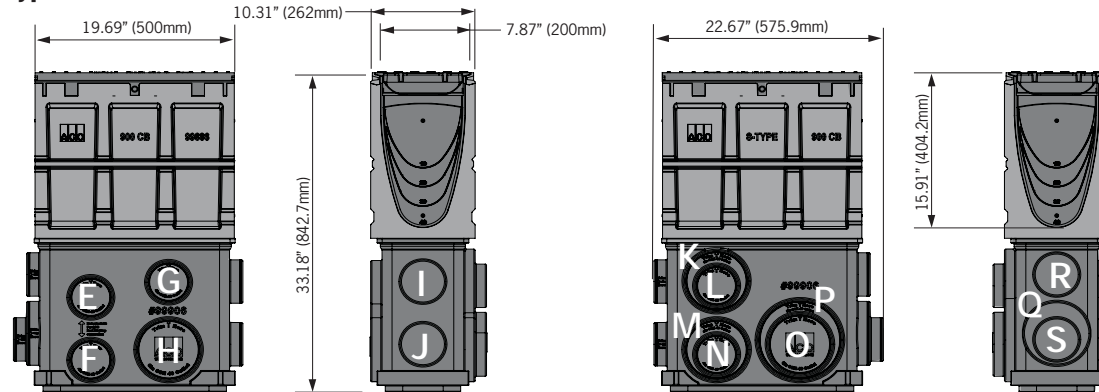


Knock-outs included on every 5th channel

Half meter channel



Type 902D In-line catch basin



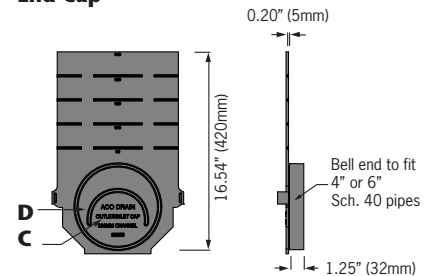
Total capacity = 19 gallons

Outlet flow rates

| Outlet | Product | Outlet size (Sch. 40) | Invert Depth | GPM | CFS |
|--------|-------------------------|-----------------------|--------------|------|------|
| A | Bottom outlet - SK2-00 | 4" round | 7.87" | 153 | 0.34 |
| A | Bottom outlet - SK2-040 | 4" round | 15.75" | 216 | 0.48 |
| B | Bottom outlet - SK2-00 | 6" round | 7.87" | 344 | 0.77 |
| B | Bottom outlet - SK2-040 | 6" round | 15.75" | 486 | 1.08 |
| C | End outlet - SK2-00 | 4" round | 7.87" | 132 | 0.29 |
| C | End outlet - SK2-40 | 4" round | 15.75" | 202 | 0.45 |
| D | End outlet - SK2-10 | 6" round | 9.84" | 320 | 0.71 |
| D | End outlet - SK2-40 | 6" round | 15.75" | 437 | 0.97 |
| E | Type SK2-902D | 4" round | 25.33" | 263 | 0.59 |
| F | Type SK2-902D | 4" round | 31.83" | 297 | 0.66 |
| G | Type SK2-902D | 4" round | 23.76" | 254 | 0.57 |
| H | Type SK2-902D | 6" round | 31.83" | 658 | 1.47 |
| I | Type SK2-902D | 4" round | 23.91" | 255 | 0.57 |
| J | Type SK2-902D | 4" round | 30.40" | 290 | 0.65 |
| K | Type SK2-902D | 6" round | 24.68" | 570 | 1.27 |
| L | Type SK2-902D | 4" round | 24.13" | 256 | 0.57 |
| M | Type SK2-902D | 6" round | 31.82" | 658 | 1.47 |
| N | Type SK2-902D | 4" round | 31.26" | 294 | 0.66 |
| O | Type SK2-902D | 6" round | 31.26" | 651 | 1.45 |
| P | Type SK2-902D | 8" round | 31.82" | 1149 | 2.56 |
| Q | Type SK2-902D | 6" round | 30.32" | 640 | 1.43 |
| R | Type SK2-902D | 4" round | 23.19" | 251 | 0.56 |
| S | Type SK2-902D | 4" round | 29.90" | 288 | 0.64 |

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

End Cap



ACO DRAIN

PowerDrain - S200K iron edged channel system with longitudinal grate (ADA)



| Description | Part No. | Invert Inches ² | mm ² | Weight lbs. | Description | Part No. | Invert Inches ² | mm ² | Weight lbs. |
|---|----------|-------------------------------|-----------------|----------------|---|----------|-------------------------------|-----------------|----------------|
| SK2-00 Neutral channel - 39.37" (1m) [®] | 71141 | 7.87 | 200 | 133.7 | SK2-28 Sloped channel - 39.37" (1m) | 71128 | 13.38 | 340 | 163.5 |
| SK2-1 Sloped channel - 39.37" (1m) | 71101 | 8.07 | 205 | 133.7 | SK2-29 Sloped channel - 39.37" (1m) | 71129 | 13.58 | 345 | 164.6 |
| SK2-2 Sloped channel - 39.37" (1m) | 71102 | 8.26 | 210 | 134.8 | SK2-30 Sloped channel - 39.37" (1m) [®] | 71130 | 13.77 | 350 | 165.7 |
| SK2-3 Sloped channel - 39.37" (1m) | 71103 | 8.46 | 215 | 135.9 | SK2-030 Neutral channel - 39.37" (1m) [®] | 71146 | 13.77 | 350 | 165.7 |
| SK2-4 Sloped channel - 39.37" (1m) | 71104 | 8.66 | 220 | 137.0 | SK2-0303 Neutral channel - 19.69" (0.5m) [®] | 71149 | 13.77 | 350 | 97.6 |
| SK2-5 Sloped channel - 39.37" (1m) [®] | 71105 | 8.85 | 225 | 138.1 | SK2-31 Sloped channel - 39.37" (1m) | 71131 | 13.97 | 355 | 166.9 |
| SK2-6 Sloped channel - 39.37" (1m) | 71106 | 9.05 | 230 | 139.2 | SK2-32 Sloped channel - 39.37" (1m) | 71132 | 14.17 | 360 | 168.0 |
| SK2-7 Sloped channel - 39.37" (1m) | 71107 | 9.25 | 235 | 140.3 | SK2-33 Sloped channel - 39.37" (1m) | 71133 | 14.37 | 365 | 169.1 |
| SK2-8 Sloped channel - 39.37" (1m) | 71108 | 9.44 | 240 | 141.4 | SK2-34 Sloped channel - 39.37" (1m) | 71134 | 14.56 | 370 | 170.2 |
| SK2-9 Sloped channel - 39.37" (1m) | 71109 | 9.64 | 245 | 142.5 | SK2-35 Sloped channel - 39.37" (1m) [®] | 71135 | 14.76 | 375 | 171.3 |
| SK2-10 Sloped channel - 39.37" (1m) [®] | 71110 | 9.84 | 250 | 143.6 | SK2-36 Sloped channel - 39.37" (1m) | 71136 | 14.96 | 380 | 172.4 |
| SK2-010 Neutral channel - 39.37" (1m) [®] | 71142 | 9.84 | 250 | 143.7 | SK2-37 Sloped channel - 39.37" (1m) | 71137 | 15.15 | 385 | 173.5 |
| SK2-0103 Neutral channel - 19.69" (0.5m) [®] | 71145 | 9.84 | 250 | 85.5 | SK2-38 Sloped channel - 39.37" (1m) | 71138 | 15.35 | 390 | 174.6 |
| SK2-11 Sloped channel - 39.37" (1m) | 71111 | 10.03 | 255 | 144.7 | SK2-39 Sloped channel - 39.37" (1m) | 71139 | 15.55 | 395 | 175.7 |
| SK2-12 Sloped channel - 39.37" (1m) | 71112 | 10.23 | 260 | 145.8 | SK2-40 Sloped channel - 39.37" (1m) [®] | 71140 | 15.74 | 400 | 176.8 |
| SK2-13 Sloped channel - 39.37" (1m) | 71113 | 10.43 | 265 | 146.9 | SK2-040 Neutral channel - 39.37" (1m) [®] | 71149 | 15.74 | 400 | 176.8 |
| SK2-14 Sloped channel - 39.37" (1m) | 71114 | 10.62 | 270 | 148.1 | SK2-0403 Neutral channel - 19.69" (0.5m) [®] | 71150 | 15.74 | 400 | 106.4 |
| SK2-15 Sloped channel - 39.37" (1m) [®] | 71115 | 10.82 | 275 | 149.2 | SK2-903D In-line catch basin - 19.69" (0.5m) [®] | 94619 | 37.36 | 949 | 106.1 |
| SK2-16 Sloped channel - 39.37" (1m) | 71116 | 11.02 | 280 | 150.3 | SK2-904D In-line catch basin - 19.69" (0.5m) [®] | 94576 | 49.41 | 1255 | 158.0 |
| SK2-17 Sloped channel - 39.37" (1m) | 71117 | 11.22 | 285 | 151.4 | SK2-631D catch basin - 19.69" (0.5m) [®] | 94580 | 49.41 | 1255 | 168.0 |
| SK2-18 Sloped channel - 39.37" (1m) | 71118 | 11.41 | 290 | 152.5 | Series 600 Optional plastic riser | 99902 | - | - | 10.0 |
| SK2-19 Sloped channel - 39.37" (1m) | 71119 | 11.61 | 295 | 153.6 | Foul air trap - fits both 910 & 610 basins | 90854 | - | - | 1.2 |
| SK2-20 Sloped channel - 39.37" (1m) [®] | 71120 | 11.81 | 300 | 154.7 | 8" channel Universal end cap | 96823 | 19.69 | 500 | 1.4 |
| SK2-020 Neutral channel - 39.37" (1m) [®] | 71144 | 11.81 | 300 | 154.7 | Debris strainer for 4" bottom knockout | 93488 | - | - | 0.2 |
| SK2-0203 Neutral channel - 19.69" (0.5m) [®] | 71147 | 11.81 | 300 | 93.1 | 8" channel installation device | 97478 | - | - | 4.0 |
| SK2-21 Sloped channel - 39.37" (1m) | 71121 | 12.00 | 305 | 155.8 | Grate removal tool | 01318 | - | - | 0.3 |
| SK2-22 Sloped channel - 39.37" (1m) | 71122 | 12.20 | 310 | 156.9 | | | | | |
| SK2-23 Sloped channel - 39.37" (1m) | 71123 | 12.40 | 315 | 158.0 | | | | | |
| SK2-24 Sloped channel - 39.37" (1m) | 71124 | 12.59 | 320 | 159.1 | | | | | |
| SK2-25 Sloped channel - 39.37" (1m) [®] | 71125 | 12.79 | 325 | 160.2 | | | | | |
| SK2-26 Sloped channel - 39.37" (1m) | 71126 | 12.99 | 330 | 161.3 | | | | | |
| SK2-27 Sloped channel - 39.37" (1m) | 71127 | 13.18 | 335 | 162.4 | | | | | |

Notes:

- This channel offers bottom knockout feature: 6" & 8" round.
- Inverts shown are male end; for female invert depth subtract 5mm (≈0.2") from male invert (except neutral channels where it will be same as male invert). To calculate overall channel depth, add 25.4mm (1.0") to invert depth.
- Catch basin assembly includes polymer concrete top, PowerLok grate, trash bucket and plastic base.
- Catch basin assembly includes polymer concrete top, PowerLok grate, deep trash bucket, plastic riser and plastic base.
- Water intake per meter channel is 134.2 in² (865.80 cm²)

Specifications

General

The surface drainage system shall be ACO Drain PowerDrain S200K complete with longitudinal ADA compliant gratings secured with 'PowerLok' locking as manufactured by ACO Polymer Products, Inc. or equal approved.

Materials

The trench system bodies shall be manufactured from polymer concrete with minimum properties as follows:

Compressive strength: 14,000 psi
Flexural strength: 4,000 psi

Water absorption 0.07%
Frost proof YES
Salt proof YES
Dilute acid and alkali resistant YES

The nominal clear opening shall be 8" (200mm) with overall width of 10.24" (260mm). Pre-cast units shall be manufactured with either an invert slope of 0.5% or with neutral invert and have a wall thickness of at least 0.67" (16mm). Each unit will feature a partial radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring keys on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. The ductile iron edge rail will be integrally cast in by the manufacturer to ensure maximum homogeneity

between polymer concrete body and edge rail. Each edge rail shall be at least 1/4" (6mm) thick.

Grates

Grates come in longitudinal ductile iron. Ductile iron to ASTM 536-84 - Grade 65-45-12. After removal of grates there shall be uninterrupted access to the trench to aid maintenance.

Installation

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

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