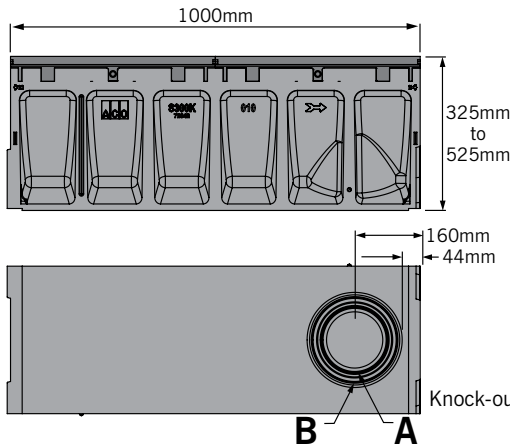
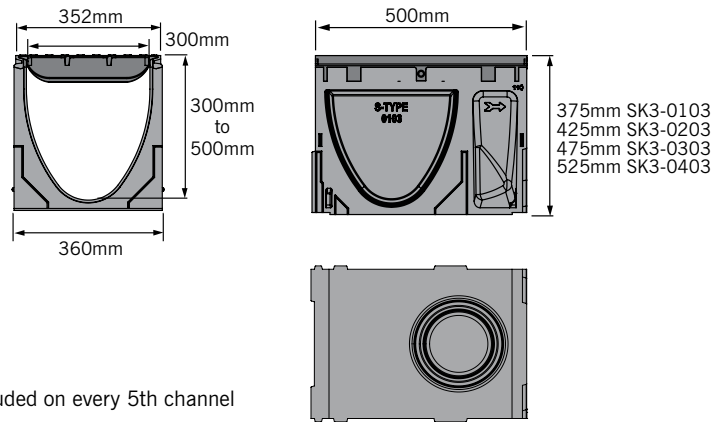




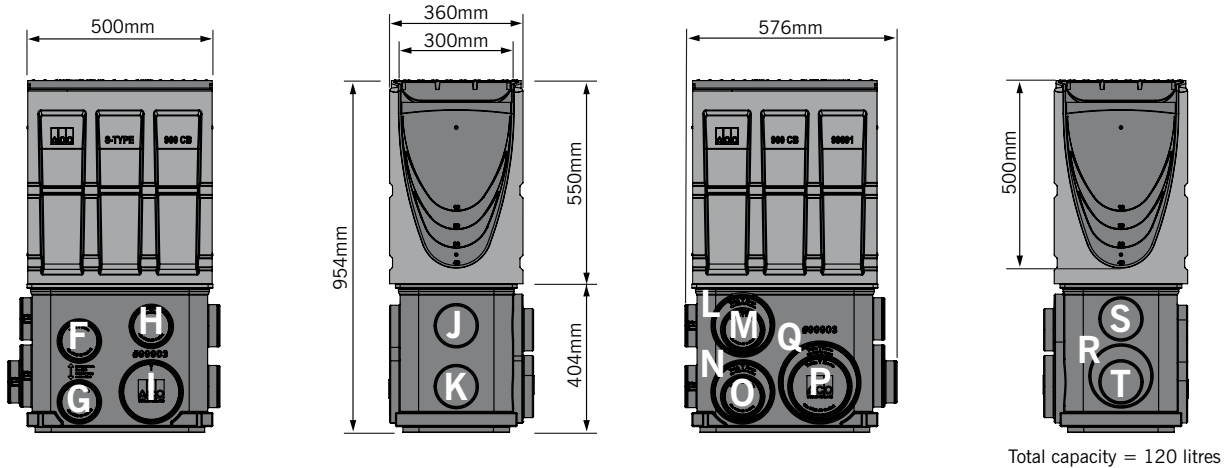
One metre channel



Half metre channel



SK3-903 In-line pit



Outlet flow rates

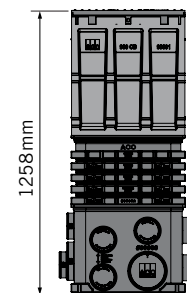
| Outlet | Product                 | Outlet size | Invert Depth (mm) | L/s  |
|--------|-------------------------|-------------|-------------------|------|
| A      | Bottom outlet - SK3-00  | 150mm round | 300               | 27.9 |
| A      | Bottom outlet - SK3-040 | 150mm round | 500               | 36.0 |
| B      | Bottom outlet - SK3-00  | 200mm round | 300               | 49.5 |
| B      | Bottom outlet - SK3-040 | 200mm round | 500               | 64.0 |
| C      | End outlet - SK3-00     | 150mm round | 300               | 19.7 |
| C      | End outlet - SK3-040    | 150mm round | 500               | 30.1 |
| D      | End outlet - SK3-010    | 200mm round | 350               | 35.0 |
| D      | End outlet - SK3-040    | 200mm round | 500               | 49.5 |
| E      | End outlet - SK3-020    | 250mm round | 400               | 54.7 |
| E      | End outlet - SK3-040    | 250mm round | 500               | 70.7 |
| F      | SK3-903                 | 100mm round | 757               | 18.3 |
| G      | SK3-903                 | 100mm round | 922               | 20.5 |
| H      | SK3-903                 | 100mm round | 717               | 17.8 |
| I      | SK3-903                 | 150mm round | 922               | 44.7 |
| J      | SK3-903                 | 100mm round | 721               | 17.8 |
| K      | SK3-903                 | 100mm round | 886               | 20.0 |
| L      | SK3-903                 | 150mm round | 740               | 39.1 |
| M      | SK3-903                 | 100mm round | 726               | 17.9 |
| N      | SK3-903                 | 150mm round | 922               | 44.7 |
| O      | SK3-903                 | 100mm round | 907               | 20.3 |
| P      | SK3-903                 | 150mm round | 907               | 44.3 |
| Q      | SK3-903                 | 200mm round | 922               | 76.8 |
| R      | SK3-903                 | 150mm round | 883               | 43.6 |
| S      | SK3-903                 | 100mm round | 702               | 17.5 |
| T      | SK3-903                 | 100mm round | 873               | 19.9 |

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates. In-line pit flow rates are without rubbish basket - using rubbish basket reduces flow.

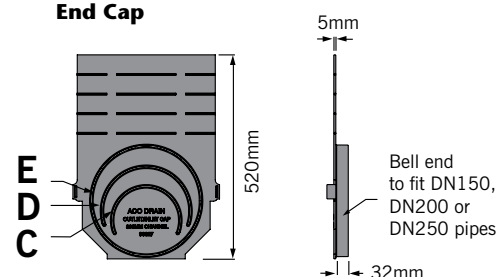
SK3-903 In-line pit with riser

Notes:

1. Riser can be cut down in 25mm increments.
2. Maximum capacity including riser 160 litres.
3. Add 300mm to all heights if using riser.
4. Outlet flow rates will be higher due to increased depth. Contact ACO Sales Office for more details.



End Cap



## PowerDrain - S300K Iron edge rail channel system



| Description                                          | Part No.     | Invert <sup>2</sup><br>(mm) | Weight<br>(kg) | Description                                          | Part No.     | Invert <sup>2</sup><br>(mm) | Weight<br>(kg) |
|------------------------------------------------------|--------------|-----------------------------|----------------|------------------------------------------------------|--------------|-----------------------------|----------------|
| <b>SK3-00 Neutral channel - (1m)<sup>1</sup></b>     | <b>69041</b> | <b>300</b>                  | <b>59.1</b>    | SK3-28 Sloped channel - (1m)                         | 69028        | 440                         | 74.1           |
| SK3-1 Sloped channel - (1m)                          | 69001        | 305                         | 59.1           | SK3-29 Sloped channel - (1m)                         | 69029        | 445                         | 74.7           |
| SK3-2 Sloped channel - (1m)                          | 69002        | 310                         | 59.6           | SK3-30 Sloped channel - (1m) <sup>1</sup>            | 69030        | 450                         | 75.3           |
| SK3-3 Sloped channel - (1m)                          | 69003        | 315                         | 60.2           | <b>SK3-030 Neutral channel - (1m)<sup>1</sup></b>    | <b>69046</b> | <b>450</b>                  | <b>75.3</b>    |
| SK3-4 Sloped channel - (1m)                          | 69004        | 320                         | 60.7           | <b>SK3-0303 Neutral channel - (0.5m)<sup>1</sup></b> | <b>69049</b> | <b>450</b>                  | <b>41.8</b>    |
| SK3-5 Sloped channel - (1m) <sup>1</sup>             | 69005        | 325                         | 61.3           | SK3-31 Sloped channel - (1m)                         | 69031        | 455                         | 75.8           |
| SK3-6 Sloped channel - (1m)                          | 69006        | 330                         | 61.9           | SK3-32 Sloped channel - (1m)                         | 69032        | 460                         | 76.4           |
| SK3-7 Sloped channel - (1m)                          | 69007        | 335                         | 62.4           | SK3-33 Sloped channel - (1m)                         | 69033        | 465                         | 76.9           |
| SK3-8 Sloped channel - (1m)                          | 69008        | 340                         | 63.0           | SK3-34 Sloped channel - (1m)                         | 69034        | 470                         | 77.5           |
| SK3-9 Sloped channel - (1m)                          | 69009        | 345                         | 63.5           | SK3-35 Sloped channel - (1m) <sup>1</sup>            | 69035        | 475                         | 78.1           |
| SK3-10 Sloped channel - (1m) <sup>1</sup>            | 69010        | 350                         | 64.1           | SK3-36 Sloped channel - (1m)                         | 69036        | 480                         | 78.6           |
| <b>SK3-010 Neutral channel - (1m)<sup>1</sup></b>    | <b>69042</b> | <b>350</b>                  | <b>64.1</b>    | SK3-37 Sloped channel - (1m)                         | 69037        | 485                         | 79.2           |
| <b>SK3-0103 Neutral channel - (0.5m)<sup>1</sup></b> | <b>69045</b> | <b>350</b>                  | <b>35.3</b>    | SK3-38 Sloped channel - (1m)                         | 69038        | 490                         | 79.7           |
| SK3-11 Sloped channel - (1m)                         | 69011        | 355                         | 64.6           | SK3-39 Sloped channel - (1m)                         | 69039        | 495                         | 80.3           |
| SK3-12 Sloped channel - (1m)                         | 69012        | 360                         | 65.2           | SK3-40 Sloped channel - (1m) <sup>1</sup>            | 69040        | 500                         | 80.8           |
| SK3-13 Sloped channel - (1m)                         | 69013        | 365                         | 65.8           | <b>SK3-040 Neutral channel - (1m)<sup>1</sup></b>    | <b>69048</b> | <b>500</b>                  | <b>80.8</b>    |
| SK3-14 Sloped channel - (1m)                         | 69014        | 370                         | 66.3           | <b>SK3-0403 Neutral channel - (0.5m)<sup>1</sup></b> | <b>69050</b> | <b>500</b>                  | <b>45.5</b>    |
| SK3-15 Sloped channel - (1m) <sup>1</sup>            | 69015        | 375                         | 66.9           | SK3-903 In-line pit (0.5m) <sup>3</sup>              | 142549       | 954 <sup>4</sup>            | 39.9           |
| SK3-16 Sloped channel - (1m)                         | 69016        | 380                         | 67.4           | Type 900 In-line plastic rubbish basket              | 98653        | -                           | 1.6            |
| SK3-17 Sloped channel - (1m)                         | 69017        | 385                         | 68.0           | Optional plastic riser                               | 141729       | 300                         | 4.5            |
| SK3-18 Sloped channel - (1m)                         | 69018        | 390                         | 68.5           | Plastic rubbish basket - long                        | 98665        | -                           | 1.8            |
| SK3-19 Sloped channel - (1m)                         | 69019        | 395                         | 69.1           | Universal end cap                                    | 96827        | 520 <sup>4</sup>            | 1.1            |
| SK3-20 Sloped channel - (1m) <sup>1</sup>            | 69020        | 400                         | 69.7           | Installation device                                  | 97479        | -                           | 2.2            |
| <b>SK3-020 Neutral channel - (1m)<sup>1</sup></b>    | <b>69044</b> | <b>400</b>                  | <b>69.7</b>    | Grate removal tool                                   | 01318        | -                           | 0.1            |
| <b>SK3-0203 Neutral channel - (0.5m)<sup>1</sup></b> | <b>69047</b> | <b>400</b>                  | <b>38.5</b>    | PowerLok safety clip                                 | 10443        | -                           | -              |
| SK3-21 Sloped channel - (1m)                         | 69021        | 405                         | 70.2           |                                                      |              |                             |                |
| SK3-22 Sloped channel - (1m)                         | 69022        | 410                         | 70.8           |                                                      |              |                             |                |
| SK3-23 Sloped channel - (1m)                         | 69023        | 415                         | 71.4           |                                                      |              |                             |                |
| SK3-24 Sloped channel - (1m)                         | 69024        | 420                         | 71.9           |                                                      |              |                             |                |
| SK3-25 Sloped channel - (1m) <sup>1</sup>            | 69025        | 425                         | 72.4           |                                                      |              |                             |                |
| SK3-26 Sloped channel - (1m)                         | 69026        | 430                         | 73.0           |                                                      |              |                             |                |
| SK3-27 Sloped channel - (1m)                         | 69027        | 435                         | 73.6           |                                                      |              |                             |                |

## Notes:

1. This channel offers bottom knockout feature; 150mm and 200mm round.
2. Inverts shown are male end, for female invert depths – subtract 5mm from male invert (except neutral channels where it will be the same as the male invert). To calculate overall channel depth, add 25mm to invert depth.
3. In-line pit assembly (polymer concrete top with ductile iron edge rail and plastic base).
4. Overall depth of in-line pit and end cap.

## Specifications

The surface drainage system shall be ACO's PowerDrain S300K polymer concrete V-profile channel system with ductile iron edge rails as manufactured by ACO.

## Channels

S300K channel shall be 300mm nominal internal width with an overall width of 360mm. Channel invert shall have a V-profile to allow efficient drainage and channel walls shall have deep pockets and vertical ribs for mechanical keying. S300K sloped channels shall have a built-in slope of 0.5%. All channels shall be interlocking with a male/female joint and have provisions for the installation device.

## Grates

Insert specification for the selected grate. Refer to the relevant ACO Specification Information sheet, at: <http://www.acodrain.com.au/resources>

## Installation

The complete drainage system shall be by ACO and to be installed for its intended purpose. Any deviation or partial use of the specified system and/or improper installation will void all warranties provided by ACO.

## Materials

S300K channel shall be manufactured from polyester resin polymer concrete with integrally cast-in ductile iron edge rails with anti-shunt lugs.

Properties of polymer concrete will be as follows with supporting documentation:

|                                           |                           |
|-------------------------------------------|---------------------------|
| Compressive Strength:                     | 98 MPa                    |
| Flexural Strength:                        | 26 MPa                    |
| Tensile Strength:                         | 14 MPa                    |
| Water Absorption:                         | 0.07%                     |
| Frost Proof:                              | YES                       |
| Coefficient of Expansion and Contraction: | 2.02x10 <sup>-5</sup> /°C |
| Water Vapour Transmission:                | 0.0364g/m <sup>2</sup>    |
| Non Flammable:                            | YES                       |
| Roughness (Mannings):                     | n=0.011                   |
| Resistant to Weathering:                  | YES                       |
| Dilute Acid and Alkali Resistant:         | YES                       |
| SF Sealant Groove:                        | YES                       |

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