FlowDrain - FG200 channel system with black coated steel frame

**Nine foot channel**

108” (2744mm)

**Three foot channel**

36” (915mm)

**Vertical outlet adapter**

8.00” (203mm) to 11.00” (280mm)

**Channel Collar**

19.74” (501mm)

**Closing cap - Female**

10.63” (270mm) to 2.00” (50mm)

**Closing cap - Male**

10.63” (270mm) to 2.00” (50mm)

**Outlet end cap**

Bell end to fit 4”, 6” and 8” Sch. 40 pipe

---

**Outlet flow rates**

<table>
<thead>
<tr>
<th>Outlet</th>
<th>Product</th>
<th>Outlet size (Sch. 40)</th>
<th>Invert Depth</th>
<th>GPM</th>
<th>CFS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Vertical outlet - F801</td>
<td>4” round</td>
<td>7.88</td>
<td>154</td>
<td>0.34</td>
</tr>
<tr>
<td>A</td>
<td>Vertical outlet - F812</td>
<td>4” round</td>
<td>20.25</td>
<td>246</td>
<td>0.54</td>
</tr>
<tr>
<td>B</td>
<td>Vertical outlet - F801</td>
<td>6” round</td>
<td>7.88</td>
<td>346</td>
<td>0.77</td>
</tr>
<tr>
<td>B</td>
<td>Vertical outlet - F812</td>
<td>6” round</td>
<td>20.25</td>
<td>553</td>
<td>1.23</td>
</tr>
<tr>
<td>C</td>
<td>Vertical outlet - F801</td>
<td>8” round</td>
<td>7.88</td>
<td>616</td>
<td>1.37</td>
</tr>
<tr>
<td>C</td>
<td>Vertical outlet - F812</td>
<td>8” round</td>
<td>20.25</td>
<td>982</td>
<td>2.18</td>
</tr>
<tr>
<td>D</td>
<td>Outlet cap - F802</td>
<td>4” round</td>
<td>9.00</td>
<td>145</td>
<td>0.33</td>
</tr>
<tr>
<td>D</td>
<td>Outlet cap - F812</td>
<td>4” round</td>
<td>20.25</td>
<td>233</td>
<td>0.54</td>
</tr>
<tr>
<td>E</td>
<td>Outlet cap - F803</td>
<td>6” round</td>
<td>10.13</td>
<td>330</td>
<td>0.76</td>
</tr>
<tr>
<td>E</td>
<td>Outlet cap - F812</td>
<td>6” round</td>
<td>20.25</td>
<td>510</td>
<td>1.17</td>
</tr>
<tr>
<td>F</td>
<td>Outlet cap - F805</td>
<td>8” round</td>
<td>12.38</td>
<td>635</td>
<td>1.46</td>
</tr>
<tr>
<td>F</td>
<td>Outlet cap - F812</td>
<td>8” round</td>
<td>20.25</td>
<td>880</td>
<td>2.03</td>
</tr>
</tbody>
</table>

**Note:** These are the pipe flow rates at the specified outlet, **NOT** channel flow rates.
## ACO Specification Information

**FlowDrain - FG200 channel system with black coated steel frame**

### Specifications

**General**
- The surface drainage system shall be ACO Drain FG200 complete with black coated steel frame and bolted gratings as manufactured by ACO, Inc. or equal approved.

**Materials**
- The trench system bodies shall be manufactured from fiberglass, with minimum properties as follows:
  - Compressive strength: 24,400 psi
  - Flexural strength: 9,943 psi
  - Water absorption: 0.33%
  - Frost proof
  - Salt proof
  - Dilute acid and alkali resistant

The nominal clear opening shall be 8.00" (203mm) with overall width of 10.63" (270mm). Pre-cast units shall be manufactured with either an invert slope of 1.0% or with neutral invert and have a wall thickness of at least 0.125" (3mm). Each unit will feature a full "V" profile in the trench bottom and a 2" (50mm) male to female interconnecting end profile.

The fiberglass channel body shall be fixed to the frame using push fit nylon studs at 17.17" (436mm) intervals.

Frames shall be manufactured from black coated steel and shall incorporate anchoring features to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. Frames shall incorporate installation brackets to ensure correct and easy installation. Frame shall be at least 3/16" (5mm) thick.

**Grates**
- Grates should be specified. See separate ACO Spec Info grate sheets for details.

**Installation**
- The trench drain system shall be installed in accordance with the manufacturer’s installation instructions and recommendations.

## ACO, Inc.

Northeast Sales Office  
9470 Pinetree Drive  
Mentor, OH 44060  
Tel: (440) 639-7240  
Toll free: (800) 543-4764  
Fax: (440) 639-7235

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

West Sales Office  
825 W. Beechcraft St.  
Casa Grande, AZ 85122  
Tel: (520) 421-9988  
Toll free: (888) 490-9552  
Fax: (520) 421-9899

Electronic Contact:  
info@ACODrain.us  
www.ACODrain.us

© April 2018 ACO, Inc. This information is believed to be accurate but is not guaranteed to be so. We cannot assume liability for results that buyer obtains with our product since conditions of use are beyond the control of the company. It is the customer’s responsibility to evaluate suitability and safety of product for his own use. ACO, Inc. reserves the right to change the product and specifications without notice.

### Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Invert Depth (inches)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F801 Sloped channel - 108&quot; (2.75m)</td>
<td>99006</td>
<td>6.75 - 7.78</td>
<td>172 - 200</td>
</tr>
<tr>
<td>F802 Sloped channel - 108&quot; (2.75m)</td>
<td>99013</td>
<td>7.88 - 9.00</td>
<td>200 - 229</td>
</tr>
<tr>
<td>F803 Sloped channel - 108&quot; (2.75m)</td>
<td>99021</td>
<td>9.00 - 10.13</td>
<td>229 - 257</td>
</tr>
<tr>
<td>F803N Neutral channel - 108&quot; (2.75m)</td>
<td>99048</td>
<td>10.13 - 257</td>
<td>15.5</td>
</tr>
<tr>
<td>F803N3 Neutral channel - 36&quot; (0.915m)</td>
<td>99034</td>
<td>10.13 - 257</td>
<td>5.2</td>
</tr>
<tr>
<td>F804 Sloped channel - 108&quot; (2.75m)</td>
<td>99055</td>
<td>10.13 - 257</td>
<td>14.1</td>
</tr>
<tr>
<td>F805 Sloped channel - 108&quot; (2.75m)</td>
<td>99062</td>
<td>11.25 - 13.50</td>
<td>286 - 314</td>
</tr>
<tr>
<td>F806 Sloped channel - 108&quot; (2.75m)</td>
<td>99071</td>
<td>12.38 - 13.50</td>
<td>314 - 343</td>
</tr>
<tr>
<td>F806N Neutral channel - 108&quot; (2.75m)</td>
<td>99095</td>
<td>13.50 - 343</td>
<td>16.3</td>
</tr>
<tr>
<td>F806N3 Neutral channel - 36&quot; (0.915m)</td>
<td>99084</td>
<td>13.50 - 343</td>
<td>5.5</td>
</tr>
<tr>
<td>F807 Sloped channel - 108&quot; (2.75m)</td>
<td>99109</td>
<td>13.50 - 14.63</td>
<td>343 - 371</td>
</tr>
<tr>
<td>F808 Sloped channel - 108&quot; (2.75m)</td>
<td>99116</td>
<td>14.63 - 15.75</td>
<td>371 - 400</td>
</tr>
<tr>
<td>F809 Sloped channel - 108&quot; (2.75m)</td>
<td>99123</td>
<td>15.75 - 16.87</td>
<td>400 - 429</td>
</tr>
<tr>
<td>F809N Neutral channel - 108&quot; (2.75m)</td>
<td>99145</td>
<td>16.87 - 429</td>
<td>19.6</td>
</tr>
<tr>
<td>F809N3 Neutral channel - 36&quot; (0.915m)</td>
<td>99132</td>
<td>16.87 - 429</td>
<td>6.5</td>
</tr>
<tr>
<td>F810 Sloped channel - 108&quot; (2.75m)</td>
<td>99156</td>
<td>16.87 - 18.00</td>
<td>429 - 457</td>
</tr>
<tr>
<td>F811 Sloped channel - 108&quot; (2.75m)</td>
<td>99162</td>
<td>18.00 - 19.13</td>
<td>457 - 486</td>
</tr>
<tr>
<td>F812 Sloped channel - 108&quot; (2.75m)</td>
<td>99175</td>
<td>19.13 - 20.25</td>
<td>486 - 514</td>
</tr>
<tr>
<td>F812N Neutral channel - 108&quot; (2.75m)</td>
<td>99192</td>
<td>20.25 - 514</td>
<td>23.0</td>
</tr>
<tr>
<td>F812N3 Neutral channel - 36&quot; (0.915m)</td>
<td>99186</td>
<td>20.25 - 514</td>
<td>7.7</td>
</tr>
</tbody>
</table>

### Notes:
1. Invert depths are for the channel/catch basin body & frame assembly
2. Channel weights are for fiberglass body only
3. Closing caps can be cut down to suit all channels
4. Add 2" to length of each channel for female joining flange (only applicable at shallowest end of run)
5. Frames supplied with plastic snap-fit studs for connecting to fiberglass body
6. (F) = female
7. (M) = male

### Channel Frames

- Black coated steel frame - 108" (2.75m)  
  Part No.: 97066  
  Weight: 57.9 lbs.
- Black coated steel frame - 36" (0.915m)  
  Part No.: 98524  
  Weight: 19.3 lbs.

### Catch Basins

Please refer to separate sheet for F600 and F880 catch basin information.

### Accessories

- Closing cap (F) with black end frame  
  Part No.: 98365  
  Weight: 1.1 lbs.
- Closing/outlet cap (M) with black end frame  
  Part No.: 98363  
  Weight: 1.3 lbs.
- Outlet cap (M) with black end frame  
  Part No.: 98361  
  Weight: 1.8 lbs.
- Vertical outlet adapter - 4" or 6" Sch. 40 outlet  
  Part No.: 98103  
  Weight: 1.6 lbs.
- FG200 Channel/catch basin collar  
  Part No.: 98171  
  Weight: 1.1 lbs.