CONCRETE HEADWALLS FOUR CELL Ø300 mm TO Ø900 mm WITH CONCRETE APRON (3 TO 1 BATTER OR FLATTER)

**DIMENSIONS**

<table>
<thead>
<tr>
<th>NOMINAL PIPE DIAMETER (mm)</th>
<th>L1 (mm)</th>
<th>L2 (mm)</th>
<th>No. REQ</th>
<th>LENGTH (mm)</th>
<th>WEIGHT (kg)</th>
<th>VOLUME (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>375</td>
<td>450</td>
<td>525</td>
<td>600</td>
<td>750</td>
<td>900</td>
</tr>
<tr>
<td>470</td>
<td>730</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>200</td>
<td>200</td>
<td>600</td>
<td>600</td>
<td>400</td>
<td>616</td>
<td>8.49</td>
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<tr>
<td>48.6</td>
<td>69.5</td>
<td>95.6</td>
<td>1.42</td>
<td>2.00</td>
<td>2.69</td>
<td>3.39</td>
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<tr>
<td>13180</td>
<td>14460</td>
<td>15900</td>
<td>17180</td>
<td>21660</td>
<td>24380</td>
<td>27260</td>
</tr>
</tbody>
</table>

**FEATURES**

- **Headwall Length:** 1830 mm to 2320 mm
- **Apron Width:** 2680 mm to 3100 mm
- **Wingwall Length:** 1560 mm to 2110 mm
- **Apron Depth:** 1110 mm to 1350 mm
- **Outlet Area:** 1225 mm to 1360 mm

**STEEL REINFORCEMENT**

- **E1 Bars:** Ø12 mm
- **M1 Mesh:**
  - L1: 300 mm
  - L2: 3330 mm
  - L3: 3740 mm
  - Width: 3330 mm
  - Length: 3740 mm

**NOTES**

1. Concrete strength grades shown are for exposure classification A3600-2009, section 4 for concrete heads, cover to reinforcement, and for other exposure classifications.
2. Weepholes are to be provided at 1800 centres (maximum) at outlet only.
3. All steel bars to be grade 400Y to AS4671-2001.
4. Mesh laps shall be made so that the two outermost wires of one fabric overlap the two outermost wires of the sheet being lapped.
5. Spacing for multiple pipes as specified in R0240-01.

**REFERRED DOCUMENTS**

- AS4671-2001 Steel Reinforcing Materials
- AS3600-2009 Concrete Structures
- AS3990-2009 Intercellular Segments
- AS3600-2009 Concrete Structures

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 Manufacture and construction of headwalls must be consistent with R0240-01.