CONCRETE HEADWALLS SINGLE CELL Ø300 mm TO Ø900 mm

WITH CONCRETE APRON (3 TO 1 BATTER OR FLATTER)

### Dimensions

<table>
<thead>
<tr>
<th>Ø (mm)</th>
<th>L1 (mm)</th>
<th>L2 (mm)</th>
<th>No. REQ</th>
<th>LENGTH (mm)</th>
<th>STEEL REINFORCEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>470</td>
<td>200</td>
<td>5</td>
<td>1830</td>
<td>E1 BARS Ø12 mm</td>
</tr>
<tr>
<td>375</td>
<td>730</td>
<td>200</td>
<td>5</td>
<td>2320</td>
<td>E1 BARS Ø12 mm</td>
</tr>
<tr>
<td>450</td>
<td>150</td>
<td>200</td>
<td>5</td>
<td>1020</td>
<td>M1 MESH 120°</td>
</tr>
<tr>
<td>525</td>
<td>150</td>
<td>200</td>
<td>5</td>
<td>1100</td>
<td>M1 MESH 120°</td>
</tr>
<tr>
<td>600</td>
<td>300</td>
<td>200</td>
<td>5</td>
<td>1270</td>
<td>M1 MESH 120°</td>
</tr>
<tr>
<td>750</td>
<td>300</td>
<td>200</td>
<td>5</td>
<td>1450</td>
<td>M1 MESH 120°</td>
</tr>
<tr>
<td>900</td>
<td>300</td>
<td>200</td>
<td>5</td>
<td>1560</td>
<td>M1 MESH 120°</td>
</tr>
</tbody>
</table>

### Concrete Headwalls

- Provide damp proof membrane for exposure classifications B2 & C.
- Section not to scale.

### Notes

1. Concrete strength grades shown are for exposure classification A1 to A6 as shown in Section 4 for concrete strength grade, 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.

**Referenced Documents:**
- AS4467-2001 Steel reinforcing materials
- AS3600-2009 Concrete structures
- AS3990-2009 Concrete structures
- Specification R11 - Stormwater drainage
- Specification R80 - Concrete work for bridges
- Section 6 - Stormwater drainage

**Thickness Classifications:**

- A2
- B2
- C

**Exposure Classifications:**

- A1
- A2
- A3
- A4
- A5
- A6

**Concrete Strength Grades:**
- 1
- 2
- 3
- 4
- 5
- 6

**Cover to Reinforcement:**
- 1
- 2
- 3
- 4
- 5

**Steel Grade:**
- 400Y

**Concrete Work:**
- Bridges

**Concrete Walls:**
- Single Cell

**Pipe Diameter:**
- Ø300 mm to Ø900 mm

**Pipe Batter:**
- 3 to 1

**Pipe Flatter:**
- Flatter