### Dimensions

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<th>Skew Angle</th>
<th>Plane Angle</th>
<th>MIN. EXTERNAL PLATE Dia.</th>
<th>A</th>
<th>M</th>
<th>O</th>
<th>N</th>
<th>D</th>
<th>U</th>
<th>TYPE 1</th>
<th>TYPE 2</th>
<th>TYPE 3</th>
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<td>85% 355 117 748 420</td>
<td>381 654</td>
<td>161 302 2622</td>
<td>681 705 863</td>
<td>908 345 2850</td>
<td>1362 345 2526</td>
<td>1362 416 1925</td>
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<tr>
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</table>

### Notes

1. Because the relation of the batter to the top of the endwall is essential for the safety of the structure, the details as shown in Section A-A must be adhered to during construction.

2. Reinforcement bars shall comply with ASTM A615, Grade 60.

3. Laps in reinforcement bars shall be 12D, and clear cover 50 mm.

4. Exposed edges shall have 10 x 10 x 20 chippers.

5. Compaction pressure behind walls not to exceed 15 kPa.

6. Concrete shall be normal-class N32.0 standard strength grade or higher, complying with the requirements of AS 1379, Exposure Classification up to 10 and including 5.

7. Concrete aggregate shall comply with Table 70B.01 of Viable's Standard Specification Section 701.

8. Endwalls shall be constructed in accordance with the relevant provisions of AS 3600.

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**Approach 1**

**Notes:**

1. All dimensions are in millimetres, except where noted.

2. Concrete mix and outfall structures - selection guide.

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**Plan**

**Section A-A**

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**Standard Drawing**

MASS CONCRETE WALL ENDWALLS 1200 TO 1200 DIAM.

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**Scale:**

1:200

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