**ANNULAR AND HELICAL PROFILE**

<table>
<thead>
<tr>
<th>PIPE WALL THICKNESS</th>
<th>BAR AND STRAP (CSP ONLY)</th>
<th>SPIRAL RIB PROFILE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORRUGATION</td>
<td>BOLT SIZE</td>
<td>BAND THICKNESS</td>
</tr>
<tr>
<td>3&quot;</td>
<td>0.064&quot;-0.164&quot;</td>
<td>0.064&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>0.064&quot;-0.164&quot;</td>
<td>0.064&quot;</td>
</tr>
</tbody>
</table>

**NOTES:**

1. For helically corrugated coupling bands, the connection angles may be oriented parallel to the pipe axis, provided connecting holes are slotted lengthwise sufficiently to allow adjustment for the helix angle.

2. Tension struts may be connected to band with either spot welds or filled welds that develop minimum required strength of struts.

3. Use 1/4" gage line dimension on attached angle leg for rivets and spot welds.

4. Band thickness shall not be less than:
   a. 3 standard thicknesses lighter than the thickness of the pipe for Corrugated Steel Pipe.
   b. 3 standard thicknesses lighter than the thickness of the pipe and in no case lighter than 0.060" for Corrugated Aluminum Pipe.

5. Dimensions, thicknesses and strengths shown are minimum.

6. For pipe arches use same width band as for round pipe of equal periphery.

7. Fillet welds of equivalent strength may be substituted for spot welds or rivets.

8. Spot welds shall develop minimum required strength of struts.

9. Pipe with rerolled ends having at least two 2¼" x 1/2" annular corrugations at each end are required. Spool welds shall develop minimum required strength of struts.

10. For downdrain applications, two piece integral flange couplers shall have factory applied sleeve type rubber gaskets with a minimum length of 7" measured along the length of the pipe.

11. All profiles of Spiral Rib Pipe (3/4" x 1/2" ribs at 7/8" pitch and 1" x 1/2" ribs at 1 1/8" pitch in both steel and aluminum and 3/4" x 1/4" ribs at 8/3" pitch in steel only) shall be manufactured with rerolled ends. Corrugation profile of the rerolled ends shall be 2¼" x 1/2" annual corrugations with a minimum of two full corrugations at each end.

**STATE OF CALIFORNIA**

**DEPARTMENT OF TRANSPORTATION**

**CORRUGATED METAL PIPE COUPLING DETAILS No. 7**

**DOWNSRAIN**

**NO SCALE**


**REVISED STANDARD PLAN RSP D97G**