### Annular and Helical Profile

<table>
<thead>
<tr>
<th>Coupling Type</th>
<th>Pipe Corrugation</th>
<th>Pipe Size</th>
<th>No. or A</th>
<th>Pipe Wall Thickness</th>
<th>Band Thickness</th>
<th>Bar and Strap (CSP Only)</th>
<th>Dimensions</th>
<th>Angle</th>
<th>BOLTS (In. Dia)</th>
<th>Rivets</th>
<th>Spot Welds (In. Dia)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Piece Integral Flange</td>
<td>1½ x ⅛</td>
<td>⅛</td>
<td>0.052</td>
<td>0.048</td>
<td>0.024</td>
<td>0.064</td>
<td>CSP</td>
<td>CAP</td>
<td>CSP</td>
<td>CSP</td>
<td>CSP</td>
</tr>
<tr>
<td>Universal</td>
<td>2½ x ⅛</td>
<td>⅛</td>
<td>0.064</td>
<td>0.060</td>
<td>0.064</td>
<td>0.052</td>
<td>CAP</td>
<td>2½</td>
<td>2½</td>
<td>3½</td>
<td>3½</td>
</tr>
<tr>
<td>Helical</td>
<td>2½ x ⅛</td>
<td>⅛</td>
<td>0.064</td>
<td>0.060</td>
<td>0.064</td>
<td>0.052</td>
<td>CAP</td>
<td>2½</td>
<td>2½</td>
<td>3½</td>
<td>3½</td>
</tr>
<tr>
<td>Hugger</td>
<td>2½ x ⅛</td>
<td>⅛</td>
<td>0.064</td>
<td>0.060</td>
<td>0.064</td>
<td>0.052</td>
<td>CAP</td>
<td>2½</td>
<td>2½</td>
<td>3½</td>
<td>3½</td>
</tr>
</tbody>
</table>

### SPIRAL RIB PROFILE

<table>
<thead>
<tr>
<th>Coupling Type</th>
<th>Pipe Corrugation</th>
<th>Pipe Size</th>
<th>No. or A</th>
<th>Pipe Wall Thickness</th>
<th>Band Thickness</th>
<th>Bar and Strap (SSRP Only)</th>
<th>Dimensions</th>
<th>Angle</th>
<th>BOLTS (In. Dia)</th>
<th>Rivets</th>
<th>Spot Welds (In. Dia)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annular</td>
<td>2½ x ⅛</td>
<td>⅛</td>
<td>0.064</td>
<td>0.060</td>
<td>0.064</td>
<td>0.052</td>
<td>CSP</td>
<td>2½</td>
<td>2½</td>
<td>3½</td>
<td>3½</td>
</tr>
<tr>
<td>Hugger</td>
<td>2½ x ⅛</td>
<td>⅛</td>
<td>0.064</td>
<td>0.060</td>
<td>0.064</td>
<td>0.052</td>
<td>CSP</td>
<td>2½</td>
<td>2½</td>
<td>3½</td>
<td>3½</td>
</tr>
</tbody>
</table>

**NOTES:**

1. For helically corrugated coupling bands, the corrugations shall be oriented parallel to the pipe axis, provided connecting holes are slotted lengthwise sufficiently to allow adjustment for the bell angle.

2. Tension straps may be connected to either side of the pipe with minimum required strength of 1-⅛.

3. Use 1-⅛ pipe line dimension on attached angle leg for rivets and spot welds.

4. Band thickness shall not be less than:
   - 3 standard thickness lighter than the thickness of the pipe for Corrugated Steel Pipe,
   - 2 standard thickness lighter than the thickness of the pipe for Corrugated Aluminum Pipe.

5. Band thicknesses and hole spacings shown are minimum.

6. For couple bands, use same width band as for round pipe of equal periphery.

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

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

9. Pipe with corrugated ends having a depth of less than 25 x ⅛ annular corrugations at each end and with or without an uncorroded flange may be connected with any of the annular coupling bands shown for pipe of the same diameter and wall thickness and having 25 x ⅛ corrugations.

10. In the case of H-12 huggerbands, two pieces are required for diameters through 96 and three pieces are required for diameters 102 through 120.

11. Two pieces bands are required for pipes greater than 42 diameter.

12. The 2½ x ⅛ Corrugated Metal pipe is in ⅛-⅛ angle connector for standard joints only on pipes through 72 diameter.

**STATE OF CALIFORNIA**
**DEPARTMENT OF TRANSPORTATION**
**CORRUGATED METAL PIPE**
**COUPLING DETAILS No. 5**
**STANDARD JOINT**

**NO SCALE**

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13. All profiles of Spiral Rib Pipe (⅛ x ⅛ ribs at 75 ° pitch and ⅛ x ⅛ ribs at 115 ° pitch in both steel and aluminum, or ⅛ x 1 ribs at 69 ° pitch in steel only shall be manufactured with corrugated ends. Corrugation profile of the corrugated ends shall be 25 x ⅛ annular corrugations with a minimum of two full corrugations at each end.

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**D07E**