### Steel Reinforced Elastomeric Bearings

#### Design and Actual Thickness of Elastomeric Bearings

<table>
<thead>
<tr>
<th>Design Thickness</th>
<th>Number of Layers</th>
<th>Actual Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2</td>
<td>1.15</td>
</tr>
<tr>
<td>1.5</td>
<td>3</td>
<td>1.13</td>
</tr>
<tr>
<td>2.0</td>
<td>4</td>
<td>2.20</td>
</tr>
<tr>
<td>2.5</td>
<td>5</td>
<td>2.88</td>
</tr>
<tr>
<td>3.0</td>
<td>6</td>
<td>3.45</td>
</tr>
<tr>
<td>3.5</td>
<td>7</td>
<td>4.03</td>
</tr>
<tr>
<td>4.0</td>
<td>8</td>
<td>4.60</td>
</tr>
<tr>
<td>4.5</td>
<td>9</td>
<td>5.18</td>
</tr>
<tr>
<td>5.0</td>
<td>10</td>
<td>5.75</td>
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<tr>
<td>5.5</td>
<td>11</td>
<td>6.33</td>
</tr>
<tr>
<td>6.0</td>
<td>12</td>
<td>6.90</td>
</tr>
</tbody>
</table>

#### Elastomeric Bearing Detail

<table>
<thead>
<tr>
<th>Design Dimension Length or Width</th>
<th>Top and Bottom External Elastomer Layers of 1/8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0&quot; (Typ)</td>
<td>14 Gauge</td>
</tr>
</tbody>
</table>

#### Sliding Bearing Detail

- **Max. Vertical Load (kips)**
- **Min. Vertical Load (kips)**
- **Max. Horizontal Displacement (in.)**
- **Elastomer Only Thickness (in.)**
- **Total Bearing Thickness (in.)**
- **Sliding Test/A (in.)**

### Section A-A

#### Bearings at Girder Centerline

1. **Bearing at Girder Centerline**

#### Bearings Not at Girder Centerline

1. **Bearing Not at Girder Centerline**

#### Plan Dimension Length or Width

- **Top and Bottom External Elastomer Layers of 1/8"**
- **Steel Plates 14 Gauge (Typ) (See Note 6)**

#### Elastomeric Bearing Details

- **See Note 9**

#### Sliding Bearing Detail

- **16 Gauge (0.075")**
- **Galv. Sheet Metal**
- **E: Coat Top of Pad with Silicone Grease**

#### Notes:

1. Bearing pads must be set level.
2. No anchor rods through elastomeric bearings.
3. All edges of the bearing steel plates must be ground or otherwise treated so that no sharp edges remain.
4. Seat length normal to the center line of the bearing must not be less than 50 inches.
5. Maximum horizontal bearing dimension is 30 inches.
6. Remove expanded polystyrene from at least two bearing sides.
7. Maximum unfactored vertical load per bearing.
8. Minimum unfactored vertical load per bearing.
9. Minimum edge distance must be equal to the actual bearing thickness or 3 inches whichever is greater.
10. The sliding bearing detail must not be used in precast or steel girders.

### Section A-A

- **Face of Blockout**
- **See Note 9**