NOTE:
1. Grates are designed for 14 ksi loading.
2. Clip angles shall be cut from standard ASTM A6 angles or formed from a 1 1/4 x 1 1/2 bar. The alternate design shall be formed from a 1 1/4 x 1 1/2 bar.
3. Grate shall be ground to fit fillets in frame angles or castings.
4. Holes on outside of grate shall be ground smooth.
5. Holes and adjacent areas shall be sand or grit blasted before galvanizing in order to remove all scale, rust, slags and spatters, etc.
6. Grates shall be hit-up squeezed after all fabrication. Graining, tapping and welds have been completed.
7. Grate shall be designed to fit frame 3, 4, 5, 6, 7, and shall be ground, and ground, and ground, and ground. The alternate design shall be to fit frame 3, 4, and 5 frames with four 1 1/4 x  1/8 long bolts and washers, and in each corner, bolts and washers shall be corrosion resistant metal of type 304 stainless steel and furnished by the frame manufacturer.
8. All grating bars for G3, G6, G11, G16, and 22 shall conform to the requirements of ASTM A128 in size 25 X 38.
9. Grate bars shall conform to the requirements of ASTM A128 in size 25.
10. Spacing bars shall have fillets and head reeds to be placed 3/16 inch between reeds.

TABLE OF GRATE DIMENSIONS AND MASSES

<table>
<thead>
<tr>
<th>Grate No.</th>
<th>Grate Length</th>
<th>Width X Length</th>
<th>Outside Width X Length</th>
<th>Grate Bars</th>
<th>End Bars</th>
<th>Support Angle Bars</th>
<th>Grate Bars Per 1000</th>
<th>End Bars Per 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>127 X 122</td>
<td>10</td>
<td>9</td>
<td>1314</td>
<td>576</td>
<td>54</td>
<td>933</td>
<td>687</td>
</tr>
<tr>
<td>10</td>
<td>127 X 122</td>
<td>10</td>
<td>9</td>
<td>1314</td>
<td>576</td>
<td>54</td>
<td>933</td>
<td>687</td>
</tr>
<tr>
<td>14</td>
<td>127 X 122</td>
<td>12</td>
<td>11</td>
<td>1314</td>
<td>576</td>
<td>54</td>
<td>933</td>
<td>687</td>
</tr>
<tr>
<td>16</td>
<td>127 X 122</td>
<td>13</td>
<td>11</td>
<td>1314</td>
<td>576</td>
<td>54</td>
<td>933</td>
<td>687</td>
</tr>
<tr>
<td>22</td>
<td>127 X 122</td>
<td>16</td>
<td>13</td>
<td>1314</td>
<td>576</td>
<td>54</td>
<td>933</td>
<td>687</td>
</tr>
</tbody>
</table>

**ERRATA 1**
APPROVED JULY 28, 2014
ISSUED WITH EB 14-025
MASS 50mm X 4.8mm
102mm X 9.5mm
38mm X 4.7mm

**ERRATA 2**
ISSUED WITH EB 16-008
MASS 50mm X 6.4mm
64mm X 4.7mm
38mm X 4.7mm

**NOTE:** ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED