HANG YOUR MECHANICAL SYSTEMS FROM DOVETAIL FORMLOK COMPOSITE DECK-SLABS

DOVETAIL FORMLOK WEDGE-NUTS
- IAPMO UES ER-423
- UL Listed

WEDGE-NUT HANGING LOAD\(^1-6\)
145 pcf NWC or \(\geq110\) pcf LWC \(f'_c = 2500\) psi (min.)

<table>
<thead>
<tr>
<th>Profile</th>
<th>Part Number</th>
<th>Connection Strength (lbs)</th>
<th>Nominal P(_n)</th>
<th>ASD P(_n/\Omega)</th>
<th>LRFD (\varnothing P(_n))</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0D FormLok</td>
<td>2.0D-WN-3/8NC</td>
<td></td>
<td>3828</td>
<td>1392</td>
<td>2297</td>
</tr>
<tr>
<td></td>
<td>2.0D-WN-1/2NC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5D FormLok</td>
<td>3.5D-WN-3/8NC</td>
<td></td>
<td>5490</td>
<td>1996</td>
<td>3294</td>
</tr>
<tr>
<td></td>
<td>3.5D-WN-1/2NC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. The concentrated hanging load shall not exceed the bending strength and vertical shear strength of the Dovetail FormLok Composite Deck-Slab.
2. Hanging load shall not exceed the strength of the threaded rod or bolt provided by others.
3. The hanging load shall be applied not more than 5 degrees from normal to the plane of the deck.
4. The allowable strength, P\(_n/\Omega\), shall be equal to or greater than the governing load combination for Allowable Stress Design in the IBC or ASCE/SEI 7.
5. The factored strength, \(\varnothing P\(_n\)\), shall be equal to or greater than the governing load combination for Load and Resistance Factor Design in the IBC or ASCE/SEI 7.
6. Safety and resistance factors included in the table are \(\Omega = 2.75\) (ASD) and \(\varnothing = 0.60\) (LRFD) respectively.
7. NPS = Nominal Pipe Size

MAXIMUM SPRINKLER PIPE DIAMETER

<table>
<thead>
<tr>
<th>Profile</th>
<th>Part Number</th>
<th>NPS(^7) Diameter (in.)</th>
<th>UL No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0D FormLok</td>
<td>2.0D-WN-3/8NC</td>
<td>4</td>
<td>EX27777</td>
</tr>
<tr>
<td></td>
<td>2.0D-WN-1/2NC</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3.5D FormLok</td>
<td>3.5D-WN-3/8NC</td>
<td>4</td>
<td>EX27777</td>
</tr>
<tr>
<td></td>
<td>3.5D-WN-1/2NC</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. The concentrated hanging load shall not exceed the bending strength and vertical shear strength of the Dovetail FormLok Composite Deck-Slab.
2. Hanging load shall not exceed the strength of the threaded rod or bolt provided by others.
3. The hanging load shall be applied not more than 5 degrees from normal to the plane of the deck.
4. The allowable strength, P\(_n/\Omega\), shall be equal to or greater than the governing load combination for Allowable Stress Design in the IBC or ASCE/SEI 7.
5. The factored strength, \(\varnothing P\(_n\)\), shall be equal to or greater than the governing load combination for Load and Resistance Factor Design in the IBC or ASCE/SEI 7.
6. Safety and resistance factors included in the table are \(\Omega = 2.75\) (ASD) and \(\varnothing = 0.60\) (LRFD) respectively.
7. NPS = Nominal Pipe Size
DOVETAIL FORMLOK WEDGE-NUT INSTALLATION

1. Deck ribs shall be free of foreign material to ensure the wedge-nut bears directly on the steel deck.
2. Insert wedge-nut and rotate to seat the surface against the webs of the steel deck as shown in Figure 1.
3. Position wedge-nut in the center of the rib with the threaded rod or bolt perpendicular to the bottom surface of the steel deck as show in Figure 1.
4. Tighten the \( \frac{3}{8}'' \) threaded rod or bolt 1 to 1½ turns beyond snug tight.
5. Tighten the \( \frac{1}{2}'' \) threaded rod or bolt \( \frac{1}{2} \) to 1 turn beyond snug tight.

**Figure 1**