PIPE SUPPORTS

MIC-SS60-X

Beam Width Table

<table>
<thead>
<tr>
<th>Z</th>
<th>'W' Width</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2.6 to 6.6</td>
<td>304B12</td>
</tr>
<tr>
<td>R</td>
<td>8.0 to 9.7</td>
<td>104B13</td>
</tr>
<tr>
<td>C</td>
<td>9.2 to 11.8</td>
<td>304B14</td>
</tr>
</tbody>
</table>

NOTES:
1. PRELIMINARY NOT FOR CONSTRUCTION
2. DESIGN ASSUMPTIONS:
   a. NO LOADS CONSIDERED - CONCEPT ONLY
   b. LATERAL LOADS NOT CONSIDERED
   c. BUILDING CODE: NOT SPECIFIED
   d. CORROSION RESISTANCE: N/R
   e. ALL LOADS ASSUMED TO ACT AT CENTER OF PIPE(S), U.N.O.
3. REFER TO COMPONENT MANUFACTURER’S DATA FOR REQUIRED INSTALLATION INFO.
4. E.O.D. MUST BE NOTIFIED OF ANY DEVIAIONS FROM EXISTING/NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THE HILTI DESIGN PRIOR TO INSTALLATION.
5. POST INSTALLED ANCHORS BASED ON 3,000 PSI UNCRACKED CONCRETE WITH SUFFICIENT DEPTH AND AREA FOR INSTALLATION. FIELD VERIFY.
PIECE SUPPORT

NOTE(S):
1. PRELIMINARY NOT FOR CONSTRUCTION
2. DESIGN ASSUMPTIONS:
   a. NO LOADS CONSIDERED - CONCEPT ONLY
   b. LATERAL LOADS CONSIDERED AS PER NFPA
   c. BUILDING CODE IBC 2006 & AIA C7-00
   d. CORROSION RESISTANCE REQD.: H/D / LG
3. ALL LOADS ASSUMED TO ACT AT CENTER OF PIPE(s), U.N.O.
4. REFER TO COMPONENT MANUFACTURER'S IFM FOR REQUIRED INSTALLATION INFO.
PIPE SUPPORT

ISOMETRIC-CONCRETE OPTION

<table>
<thead>
<tr>
<th>No.</th>
<th>Unit Qty</th>
<th>Unit Description</th>
<th>Box Qty</th>
<th># Boxes Needed</th>
<th>Item No.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>AS REQ'D</td>
<td>GIRDIER M160-2M</td>
<td>1</td>
<td>AS REQ'D</td>
<td>304798</td>
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<td>2</td>
<td>AS REQ'D</td>
<td>3/8 STRUT HS-1316-1/2-505PC 1/4&quot;</td>
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<td>AS NEC'D</td>
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<td>3</td>
<td>2</td>
<td>CHANNEL END CAP MEX RED</td>
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<td>1</td>
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<td>4</td>
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<td>GIRDIER END CAP M160-250</td>
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<td>1</td>
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<td>5</td>
<td>2</td>
<td>ONBEAN SCREW M160-25-50</td>
<td>10</td>
<td>1</td>
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<td>6</td>
<td>2</td>
<td>MI HEX NUT M12-F SL-VS 3/4&quot;</td>
<td>180</td>
<td>1</td>
<td>382897</td>
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<td>7</td>
<td>5</td>
<td>STRUT CLAMP SC-XS-ASD (SEE TABLE)</td>
<td>Varies</td>
<td>Varies</td>
<td>Varies</td>
</tr>
</tbody>
</table>

CONCRETE Option

| 8   | 1        | CONNECTOR MIC-90-O CONCRETE | 2       | 1             | 304827   |
| 9   | 4        | USE KB3 OR KB2-2-AS APPROPRIATE | Varies | Varies        | Varies   |

STEEL Beam Width Table

<table>
<thead>
<tr>
<th>X</th>
<th>&quot;B&quot; Width</th>
<th>Item No.</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>2.9 to 6.5</td>
<td>304812</td>
</tr>
<tr>
<td>B</td>
<td>6.5 to 9.2</td>
<td>304813</td>
</tr>
<tr>
<td>C</td>
<td>9.2 to 11.8</td>
<td>304814</td>
</tr>
</tbody>
</table>

NOTE(S):
1. PRELIMINARY NOT FOR CONSTRUCTION
2. DESIGN ASSUMPTIONS:
   a. DESIGN LOADS (STATIC, U.N.O.):
   DL: 50 LBS (FOR 1/2" AND 3/4" PIPE CLAMP)
   75 LBS (FOR 1" AND 1 1/4" PIPE CLAMP)
   100 LBS (FOR 1 1/2" AND 2" PIPE CLAMP)
   b. LATERAL LOADS NOT CONSIDERED
   c. BUILDING CODE; NOT SPECIFIED
   d. CORROSION RESISTANCE REQ'D; NOT SPECIFIED
3. ALL LOADS ASSUMED TO ACT AT CENTER OF PIPE(S), U.N.O.
4. REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRED INSTALLATION INFO.
5. E.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.
BRANCHLINE PIPE INSTALLED CLOSE TO TRANSFORMER (BY OTHERS)

1. ISOMETRIC
   2. ELEVATION

NOTE(S):
1. PRELIMINARY NOT FOR CONSTRUCTION
2. DESIGN ASSUMPTIONS:
   a. DESIGN LOADS (STATIC, U.N.O.C.)
   b. LATERAL LOADS NOT CONSIDERED
   c. BUILDING CODE: IBC 2012
   d. CORROSION RESISTANCE REQUISITE: HDG
   e. MAX. SUPPORT SPACING = PER NFPA TABLE 8.5.2.2.2.2
3. ALL LOADS ASSUMED TO ACT AT CENTER OF PIPE(S), U.N.O.
4. REFER TO COMPONENT MANUFACTURER'S IFU FOR REQUIRED INSTALLATION INFO.
5. L.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.
NOTE(S):
1. PRELIMINARY NOT FOR CONSTRUCTION
2. DESIGN ASSUMPTIONS:
   a. DESIGN LOADS (STATIC, U.W.O.):
      DL, LL, AL, I-PIPE FILLED WITH WATER
   b. LATERAL LOADS NOT CONSIDERED
   c. BUILDING CODE NOT SPECIFIED
   d. CONVERSION RESISTANCE REDUCTION NOT SPECIFIED
   e. MAX SUPPORT SPACING = 10'-0"
3. ALL LOADS ASSUMED TO ACT AT CENTER OF PIPE(S), U.W.O.
4. REFER TO COMPONENT MANUFACTURER'S DATA FOR REQUIRED INSTALLATION INFO.
5. E.O.R. MUST BE INFORMED OF ANY DEVIATIONS FROM EXISTING/NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.
NOTE(S):
1. PRELIMINARY NOT FOR CONSTRUCTION
2. DESIGN ASSUMPTIONS:
   a. DESIGN LOADS (STATIC, UNO.D.):
      DL: 5' 2 STD. PIPE, 480 lbs.
      HL: 40 PSF (TRANSVERSE)
      EL: 0.15g (LONGITUDINAL)
   b. BUILDING CODE: IBC 2006
   c. CORROSION RESISTANCE REQD.: HO9
   d. MAX. SUPPORT SPACING: SEE SUPPORT SPACING TABLE 4.5 IN DOCUMENT M-23.
3. ALL LOADS ASSUMED TO ACT AT CENTER OF PIPE(S), UNO.D.
4. REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRED INSTALLATION INFO.
5. L.D.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.