PIPE (BY OTHERS)

**ISOMETRIC**
*(SCALE 3\(\frac{1}{4}\)=1’-0’)*

Max W, in | 12 | 24 | 36
---|---|---|---
Vertical | 3168 | 2544 | 1968
Transverse | 1584 | 1266 | 966
Longitudinal | 1584 | 1266 | 966

**NOTE:**

1. This drawing represents a common configuration for this application. The pipe support is load rated and dimensionally limited based on static loads, and the published Hilti load data, design methodologies, and default generic non-project specific assumptions as set forth in ProfiS install, version 2.12. The capacity of the connection to the structure must be evaluated separately. The engineering of record shall evaluate this support to determine its suitability for the actual, project specific design criteria and requirements.

2. All loads assumed to act on the support, no eccentric loads included. Pipe connection hardware must be checked separately.

3. Design assumptions: IBC 2012 building code, see table for design loads (static U.N.O.)

4. Refer to component manufacturer's IFU's for required installation information.

5. For applicable concrete or steel anchor design contact Hilti or the project site engineer of record.

6. Capacities shown above are based on vertical combined with transverse or vertical combined with longitudinal. A separate analysis must be performed if vertical, transverse and longitudinal loads occur simultaneously.

**REVISION HISTORY:**

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<td>3/9/2018</td>
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<td>4/23/2018</td>
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**TYPICAL DETAILS**

**TYPICAL DETAIL NUMBER:** TD-P-BC08-S

**PAPER SIZE:** ANSI A

**TYPICAL DETAIL DESCRIPTION:**

Pipe braced cantilever steel
NOTE(S):

1. THIS DRAWING REPRESENTS A COMMON CONFIGURATION FOR THIS APPLICATION. THE PIPE SUPPORT IS LOAD RATED AND DIMENSIONALLY LIMITED BASED ON STATIC LOADS, AND THE PUBLISHED HILTI LOAD DATA, DESIGN METHODOLOGIES, AND DEFAULT GENERIC NON-PROJECT SPECIFIC ASSUMPTIONS AS SET FORTH IN PROFIS INSTALL, VERSION 2.12. THE CAPACITY OF THE CONNECTION TO THE STRUCTURE MUST BE EVALUATED SEPARATELY. THE ENGINEERING OF RECORD SHALL EVALUATE THIS SUPPORT TO DETERMINE ITS SUITABILITY FOR THE ACTUAL PROJECT SPECIFIC DESIGN CRITERIA AND REQUIREMENTS.

2. ALL LOADS ASSUMED TO ACT ON THE SUPPORT, NO ECCENTRIC LOADS INCLUDED. PIPE CONNECTION HARDWARE MUST BE CHECKED SEPARATELY.

3. DESIGN ASSUMPTIONS: IBC 2012 BUILDING CODE, SEE TABLE FOR DESIGN LOADS (STATIC U.N.O.)

4. REFER TO COMPONENT MANUFACTURER'S IFUs FOR REQUIRED INSTALLATION INFORMATION.

5. FOR APPLICABLE CONCRETE OR STEEL ANCHOR DESIGN CONTACT HILTI OR THE PROJECT SITE ENGINEER OF RECORD.

6. CAPACITIES SHOWN ABOVE ARE BASED ON VERTICAL COMBINED WITH TRANSVERSE OR VERTICAL COMBINED WITH LONGITUDINAL. A SEPARATE ANALYSIS MUST BE PERFORMED IF VERTICAL, TRANSVERSE AND LONGITUDINAL LOADS OCCUR SIMULTANEOUSLY.

7. ANCHOR CAPACITIES NOT CONSIDERED.

REVISION HISTORY

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TYPICAL DETAIL NAME:

TYPICAL DETAILS

TD-P-BC10-C

TYPICAL DETAIL DESCRIPTION:

PIPE BRACED CANTILEVER CONCRETE

HILTI

TYPICAL DETAIL NUMBER:

ANSI A

TD-P-BC10-C - 1

TYPICAL DETAIL NUMBER:

MIC-C90-DH-XXXX TABLE

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Max W, in  12  24  36

LRFD, lbs

Vertical  4896  3240  2400

Transverse  2448  1620  1200

Longitudinal  2448  1620  1200
PIPE (BY OTHERS)

ISOMETRIC
(Scale 1' = 1'-0')

Max W, in  12  24  36
LRFD, lbs
Vertical  1800  1104  792
Transverse  894  546  390
Longitudinal  894  546  390

ELEVATION
(Scale 1' = 1'-0')

NOTE(S):
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2. ALL LOADS ASSUMED TO ACT ON THE SUPPORT, NO ECCENTRIC LOADS INCLUDED. PIPE CONNECTION HARDWARE MUST BE CHECKED SEPARATELY.
3. DESIGN ASSUMPTIONS: IBC 2012 BUILDING CODE; SEE TABLE FOR DESIGN LOADS (STATIC U.N.O.)
4. REFER TO COMPONENT MANUFACTURER’S IFU’S FOR REQUIRED INSTALLATION INFORMATION.
5. FOR APPLICABLE CONCRETE OR STEEL ANCHOR DESIGN CONTACT HILTI OR THE PROJECT SITE ENGINEER OF RECORD.
6. CAPACITIES SHOWN ABOVE ARE BASED ON VERTICAL COMBINED WITH TRANSVERSE OR VERTICAL COMBINED WITH LONGITUDINAL. A SEPARATE ANALYSIS MUST BE PERFORMED IF VERTICAL, TRANSVERSE AND LONGITUDINAL LOADS OCCUR SIMULTANEOUSLY.

REVISION HISTORY

TYPICAL DETAILS
TD-P-C08-S

TYPICAL DETAIL DESCRIPTION:
PIPE CANTILEVER STEEL

TYPICAL DETAIL NUMBER:
TD-P-C08-S 1

PAPER SIZE: ANSI A

HILTI
**PIPE CANTILEVER CONCRETE**

**TYPICAL DETAIL NUMBER:**

**TYPICAL DETAILS**

**TD-P-C10-C**

**DATE:**

11/14/2017

**REVISION HISTORY**

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**TYPICAL DETAIL DESCRIPTION:**

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7. ANCHOR CAPACITIES NOT CONSIDERED.

**LRFD, lbs**

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<th></th>
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<td>12</td>
<td>24</td>
<td>36</td>
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<tr>
<td>Vertical</td>
<td>3156</td>
<td>2040</td>
<td>1500</td>
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<tr>
<td>Transverse</td>
<td>1572</td>
<td>1020</td>
<td>750</td>
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<tr>
<td>Longitudinal</td>
<td>1572</td>
<td>1020</td>
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**ELEVATION**

(Scale 1" = 1'0")

**ISOMETRIC**

(Scale 1" = 1'0")

**PIPE (BY OTHERS)**
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7. ANCHOR CAPACITIES NOT CONSIDERED.

REVISION HISTORY

NO. DESCRIPTION: DATE:
A
NOT FOR CONSTRUCTION
B
UPDATED PER COMMENTS
3/9/2018

TYPICAL DETAIL NUMBER:

PIECE MARK | Item No. | Description | Qty.
---|-----|-----|-----
1 | 304798 | GIRDER MI-90 | 1
2 | 304798 | GIRDER MI-90 | 2
3 | 304825 | CONNECTOR MIC-C90-AA CONCRETE | 2
4 | 2179532 | CONNECTOR MIC-BAH | 2
5 | 304834 | CONNECTOR U-BOLT MIC-U890-M16 | 1
6 | 432077 | END CAP - MSA-EC-90 | 2
7 | VARIES | USE APPROPRIATE HILTI ANCHOR | 4
8 | SPECIAL | U-BOLT BASED ON PIPE DIAMETER | 1

LRFD, lbs

Max H, in 24 24 48 48 72 72
Max W, in 48 72 48 48 72 72
Vertical 1416 1404 924 912 912 900
Transverse 666 666 348 394 234 234
Longitudinal 666 666 348 394 234 234

ELEVATION

(Scale 1/8" = 1'-0")

TYPICAL DETAIL DESCRIPTION:

PIPE GOALPOST CONCRETE

HILTI
**ISOMETRIC**
(Scale 3/4"=1'-0")

**MISC-900-XH BEAM WIDTH TABLE**

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<td>9.2 to 12.0</td>
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<tr>
<th>X</th>
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<th>Max W, in</th>
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<tr>
<td>A</td>
<td>24</td>
<td>72</td>
</tr>
<tr>
<td>B</td>
<td>48</td>
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<td>48</td>
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LRFD, lbs

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<tr>
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<tr>
<td>1308</td>
<td>570</td>
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**ELEVATION**
(Scale 3/4"=1'-0")

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**TYPICAL DETAILS**
TD-P-GP15-S

**TYPICAL DETAIL DESCRIPTION:**
PIPE GOALPOST STEEL

**HILTI**

**DRAWN:**

**CHECKED:**

**DESIGNED:**

**REVIEWED:**

**PAPER SIZE:**

**TYPICAL DETAIL NUMBER:**
TD-P-GP15-S - 1
NOTE(S):
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7. ANCHOR CAPACITIES NOT CONSIDERED.

REVISION HISTORY:

TYPICAL DETAIL NAME:

TYPICAL DETAILS
TD-P-TR01-C

TYPICAL DETAIL DESCRIPTION:

PIPE TRAPEZE CONCRETE
NOTE(S):
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7. TRAPEZE TO FIT FLANGE WIDTH OF 75 - 165 MM.

LENGHTS:
- Max H, in: 24, 48, 72
- Max W, in: 48, 72

LOADS:
- Vertical: 816, 564, 600, 588, 348, 336
- Transverse: 408, 282, 222, 222, 156, 156
- Longitudinal: 408, 282, 222, 222, 156, 156

REVISION HISTORY
- NO: 1
- DESCRIPTION: NOT FOR CONSTRUCTION
- DATE: 9/30/2018