01 ISOMETRIC

02 ELEVATION

NOE(S):
1. THIS DRAWING REPRESENTS A COMMON CONFIGURATION FOR THIS APPLICATION. THE CABLE TRAY (CT) SUPPORT IS LOAD RATED AND DIMENSIONALLY LIMITED BASED ON HILTI-PUBLISHED STATIC LOAD DATA AND DESIGN METHODOLOGIES, AND GENERIC, NON-PROJECT SPECIFIC DESIGN ASSUMPTIONS. 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. CT CONNECTION HARDWARE MUST BE CHECKED SEPARATELY.
3. DESIGN ASSUMPTIONS: IBC 20/12 BUILDING CODE; SEE TABLE FOR DESIGN LOADS (STATIC U.N.O.).
4. REFER TO COMPONENT MANUFACTURER'S IFU'S FOR REQUIRED INSTALLATION INFORMATION.
5. CONCRETE ANCHOR DESIGN BASED ON KB-TZ WITH EFFECTIVE EMBEDMENT DEPTHS OF 2" FOR 1/16" AND 3.125" FOR 1/8" IN 5" THICK 3,000 PSI CRACKED CONCRETE WITH INFINITE EDGE DISTANCE. HIGHER SUPPORT LOADS MAY BE OBTAINED WITH DEEPER EMBEDMENTS, HIGHER CONCRETE STRENGTHS OR CHEMICAL ANCHORS.

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<td>EA STRUT HS-13''-6'-12'HDG 10'' B2B</td>
<td>VARIES</td>
<td>AS REQ'D</td>
<td>SPECIAL</td>
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</table>
CABLE TRAY AND CLIP (BY OTHERS)

NOTE(S):
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2. ALL LOADS ASSUMED TO ACT ON THE SUPPORT, NO ECCENTRIC LOADS INCLUDED. CT CONNECTION HARDWARE MUST BE CHECKED SEPARATELY.
3. DESIGN ASSUMPTIONS: IBC 2012 BUILDING CODE; SEE TABLE FOR DESIGN LOADS (CODE L,U,C).
4. REFER TO COMPONENT MANUFACTURER'S IFU'S FOR REQUIRED INSTALLATION INFORMATION.
5. CONCRETE ANCHOR DESIGN BASED ON KB-TZ WITH EFFECTIVE EMBEDMENT DEPTHS OF 2" FOR 1/4" AND 3.125" FOR 5/8" IN 5" THICK 3,000 PSI CRACKED CONCRETE WITH INFINITE EDGE DISTANCE. HIGHER SUPPORT LOADS MAY BE OBTAINED WITH DEEPER EMBEDMENTS, HIGHER CONCRETE STRENGTHS OR CHEMICAL ANCHORS.
CABLE TRAY BRACED CANTILEVER CONCRETE

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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.
### TYPICAL DETAILS

**CABLE TRAY BRACED CANTILEVER CONCRETE**

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5. FOR APPLICABLE CONCRETE OR STEEL ANCHOR DESIGN CONTACT HILTI OR THE PROJECT SITE ENGINEER OF RECORD.
Maximum L1 (ft) | Allowable Vertical Load (lbs) | Allowable Transverse Load (lbs) | Allowable Longitudinal Load (lbs)
--- | --- | --- | ---
48 | 280 | 84 | 15
60 | 160 | 48 | 15
72 | 76 | 22.5 | 12

CABLE TRAY AND CLIPS (BY OTHERS)

1. This drawing represents a common configuration for this application. The cable tray (CT) support is load-rated and dimensionally limited based on Hilti–published static load data and design methodologies, and generic, non-project-specific design assumptions. 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. CT 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.
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4. REFER TO COMPONENT MANUFACTURER'S IFU'S FOR REQUIRED INSTALLATION INFORMATION.

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CABLE TRAY AND CLIPS (BY OTHERS)

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3. DESIGN ASSUMPTIONS: IBC 20/2 BUILDING CODE; SEE TABLE FOR DESIGN LOADS (STATIC U.N.O.).

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

5. CONCRETE ANCHOR DESIGN BASED ON KB-TZ WITH EFFECTIVE EMBEDMENT DEPTHS OF 2" FOR 3/8" and 3.125" FOR 5/8" IN 5" THICK 3,000 PSI CRACKED CONCRETE WITH INFINITE EDGE DISTANCE. HIGHER SUPPORT LOADS MAY BE OBTAINED WITH DEEPER EMBEDMENTS, HIGHER CONCRETE STRENGTHS OR CHEMICAL ANCHORS.
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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.**

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<tr>
<th>MAXIMUM L1 (in)</th>
<th>ALLOWABLE VERTICAL LOAD (lbs.)</th>
<th>ALLOWABLE TRANSVERSE LOAD (lbs.)</th>
<th>ALLOWABLE LONGITUDINAL LOAD (lbs.)</th>
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**NOTE(S):**

**SERVICE REQUEST DESCRIPTION:**

**CABLE TRAY CANTILEVER (MQ) STEEL**

**REVISIONS:**

**DRIVEN BY:**

**DRAWN BY:**

**DATE:**

**PROJECT NAME:**

**TYPICAL DETAILS:**

**HILTI**
NOTE(S):

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

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This drawing represents a common configuration for this application. The cable tray (CT) support is load rated and dimensionally limited based on Hilti-published static load data and design methodologies, and generic, non-project-specific design assumptions. The engineering of record shall evaluate this support to determine its suitability for the actual project-specific design criteria and requirements.

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


Refer to component manufacturer’s IFU’s for required installation information.

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

**CABLE TRAY F-FRAME (MQ) CONCRETE**

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

3. Design assumptions: IBC 20/2 building code; see table for design loads (static U.N.O.)

4. Refer to component manufacturer’s IFUs for required installation information.

5. Concrete anchor design based on KB-TZ with effective embedment depths of 2” for 1/2” and 3.125” for 5/8” in 5” thick 3,000 PSI cracked concrete with infinite edge distance. Higher support loads may be obtained with deeper embedments, higher concrete strengths or chemical anchors.

---

**Table:**

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<thead>
<tr>
<th>Maximum H1 (Ft)</th>
<th>Maximum H2 (In)</th>
<th>Allowable Vertical Load (lbs)</th>
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</table>

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**ISOMETRIC:**

- CABLE TRAY AND CLIPS (BY OTHERS)
CABLE TRAY AND CLIPS (BY OTHERS)

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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.**
CABLE TRAY AND CLIPS (BY OTHERS)

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MAXIMUM
H1 (in.)
MAXIMUM
H2 (in.)
ALLOWABLE
VERTICAL
LOAD (lbs)
ALLOWABLE
TRANSVERSE
LOAD (lbs)
ALLOWABLE
LONGITUDINAL
LOAD (lbs)
---
48
36
50
0
0
---
60
48
45
0
0
---
72
60
40
0
0

CABLE TRAY AND CLIPS
(BY OTHERS)

TRANVERSE

LONGITUDINAL

(SEE NOTE 5)

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5. FOR APPLICABLE CONCRETE OR STEEL ANCHOR DESIGN CONTACT HILTI OR THE PROJECT SITE ENGINEER OF RECORD.
CABLE TRAY AND CLIPS (BY OTHERS)

MAXIMUM ALLOCABLE VERTICAL LOAD (lbs.) ALLOCABLE TRANSVERSE LOAD (lbs.) ALLOCABLE LONGITUDINAL LOAD (lbs.)
48 65 19.5 19.5
60 50 15 15
72 46 13.5 13.5

NOTE(S):
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CABLE TRAY AND CLIPS (BY OTHERS)

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

**CABLE TRAY T-POST CONCRETE**

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<tr>
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**CABLE TRAY T-POST STEEL**

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**Beam Width Table**

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<td>B</td>
<td>6.5 to 9.2</td>
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</tr>
<tr>
<td>C</td>
<td>9.2 to 11.8</td>
<td>304814</td>
</tr>
</tbody>
</table>

**MAXIMUM H (lbs) | ALLOWABLE VERTICAL LOAD (lbs) | ALLOWABLE TRANSVERSE LOAD (lbs) | ALLOWABLE LONGITUDINAL LOAD (lbs)**

| 48  | 600   | 180   | 180   |
| 60  | 500   | 150   | 150   |
| 72  | 420   | 120   | 120   |

**02. ELEVATION**

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**TYPICAL DETAILS**

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**PROJECT:**

---

**CABLE TRAY T-POST STEEL**

---

**REVIEWED BY:**

---

**DRAWN BY:**

---

**DRAWING NUMBER:**

---

**SHEET:**

---

**01**

---

1/1
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CONCRETE SLAB NOT SHOWN FOR CLARITY

CABLE TRAY AND CLIPS
(BY OTHERS)

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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.

NOTE(S):
Maximum load calculations are based on the assumption that the component is installed in accordance with the manufacturer's instructions and that all loads are applied in the manner described. The table below provides the maximum allowable loads for different configurations of the component.

### MAXIMUM LOADS

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<th>Component</th>
<th>Vertical Load (lbs)</th>
<th>Transverse Load (lbs)</th>
<th>Longitudinal Load (lbs)</th>
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<tr>
<td>MAXIMUM</td>
<td>72</td>
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### Maximum H (in.)

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### Elevation

- **Cable Tray and Clips (by others)**
- **7.8**
- **6'-0''**

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<th>Item No.</th>
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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.**
**TYPICAL DETAILS**

**CABLE TRAY TRAPEZE STEEL**

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