Deck collapses are often caused by failure of the connection where the deck is attached to the main structure due to little or no lateral capacity. ADTT-TZ is an Adjustable Deck Tension Tie designed to effectively transfer the out of plane lateral loads of the deck to the house structure.

**Features:**
- Exceeds “Hold-down Device” requirements per 2018 IRC, Section 507.9.2 [Figure R507.9.2(2)]
- Adjustable design allows lag screw installation at variable distance below deck joist
- 2-hole break-out washer (BO-W) will work with multiple screw sizes
- Blocking extensions not required

**Materials:** 14 gauge

**Finish:** G-185 galvanizing

**Codes:** See chart for code references

**Patents:** U.S. Patent No. 9,809,974

**Installation:**
- Install with MiTek WS8-EXT structural wood screw or 3/8" HDG lag screw. WS8-EXT or 3/8" HDG lag screws may be installed adjacent or up to 4-3/8" below deck joist (see Figure A).
- Drive screw horizontally and aligned vertically with the deck joist into the wall top plate of the main (house) structure.
- Install four (4) of the specified joist fasteners into vertical legs. (Two (2) on each side of deck joist).
- Secure front brace with six (6) specified joist fasteners.
- Re-tighten the WS8-EXT or 3/8" HDG lag screw as needed to fully engage with the ADTT-TZ. DO NOT OVERDRIVE. Note: Minimum 3" thread penetration required for proper installation of WS8-EXT or HDG lag screw.
- For detailed installation instructions refer to MiTek-US.com.

---

**Table: Fastener Schedule**

<table>
<thead>
<tr>
<th>MiTek USP Stock No.</th>
<th>Ref. No.</th>
<th>Dimensions (in)</th>
<th>Steel Gauge</th>
<th>W</th>
<th>L</th>
<th>D</th>
<th>CL</th>
<th>Qty</th>
<th>Type</th>
<th>Qty</th>
<th>Type</th>
<th>3/8&quot; HDG Lag Screw</th>
<th>Installation</th>
<th>Δ (in) at 160%</th>
<th>160% Allowable Tension (Lbs.)</th>
<th>160% Allowable Tension (Lbs.)</th>
<th>Corrosion Finish</th>
<th>Code Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADTT-TZ</td>
<td>DTT1Z</td>
<td>14</td>
<td>1-9/16</td>
<td>10-1/2</td>
<td>15/16</td>
<td>3/8</td>
<td>1</td>
<td>10d x 1-1/2</td>
<td>3/8&quot; HDG</td>
<td>10</td>
<td>10d x 1-1/2</td>
<td>Contracted 820 0.070 820</td>
<td>Extended 850 0.117 810</td>
<td>IBC, FL, LA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>W</td>
<td>L</td>
<td>D</td>
<td>CL</td>
<td>Qty</td>
<td>Type</td>
<td>Qty</td>
<td>Type</td>
<td>LL915</td>
<td>Contracted 820 0.121 780</td>
<td>Extended 790 0.114 780</td>
<td>IBC, FL, LA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>W</td>
<td>L</td>
<td>D</td>
<td>CL</td>
<td>Qty</td>
<td>Type</td>
<td>Qty</td>
<td>Type</td>
<td>WS8-EXT</td>
<td>Contracted 830 0.080 780</td>
<td>Extended 835 0.113 780</td>
<td>IBC, FL, LA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>W</td>
<td>L</td>
<td>D</td>
<td>CL</td>
<td>Qty</td>
<td>Type</td>
<td>Qty</td>
<td>Type</td>
<td>LL915</td>
<td>Contracted 830 0.121 780</td>
<td>Extended 790 0.114 780</td>
<td>IBC, FL, LA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) Allowable loads are for the ADTT-TZ installed tight to the bottom of the joist (Contracted) or 4" from bottom of joist to ADTT-TZ bend line (Extended).
2) Deflections are derived from static, monotonic load tests of devices connected to DF wood members with specified fasteners.
3) WS8-EXT is a 1/4" dia. x 8" long double barrier coated screw sold by MiTek and must be ordered separately if not purchasing the kit. The minimum thread penetration into the top plate of the wall framing is 3".
4) 3/8" HDG Lag Screw is an ASTM A307 Grade A lag screw with a thread diameter of 3/8" and is hot-dip galvanized to ASTM A153 standards. The minimum thread penetration into the top plate of the wall framing is 3". Lag screws are available at your local hardware store and must be purchased separately.
5) Check with your siding manufacturer for recommendations for fastening through your siding material.
6) LL915 denotes a MiTek LumberLok Screw (#9 x 1-3/8" long) and must be ordered separately if not purchasing the kit.
7) ADTT-TZKT is a kit with (4) ADTT-TZ packaged with MiTek WS8-EXT structural wood screws and LL915 LumberLok screws.
8) NAILS: 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long.

**Corrosion Finish**
- Stainless Steel
- Gold Coat
- HDG
- Triple Zinc
Deck Tie Back reinforces the connection of rail posts to a deck. Also provides lateral strength of deck-to-ledger attachment by securing deck to house framing.

**Materials:** 14 gauge

**Finish:** G-185 galvanizing

**Options:** See chart for Corrosion Finish Options

**Codes:** IBC, FL, LA
IRC R507.1

**Installation:**
- Use all specified fasteners. See Product Notes, page 18.
- Install with MiTek’s THR 1/2” threaded rod or equivalent.
- Drive MiTek’s WS15-EXT structural wood screws into joist.
- Re-install threaded rod or anchor bolt. Secure with washer and nut.
- Tighten anchor bolt nuts finger tight to base plus 1/3 to 1/2 additional turns with wrench.

### Fastener Schedule

<table>
<thead>
<tr>
<th>MiTek USP Stock No.</th>
<th>Ref. No.</th>
<th>Steel Gauge</th>
<th>Dimensions (in)</th>
<th>Fastener Schedule</th>
<th>Allowable Loads (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTB-TZ</td>
<td>DTT2Z, FSC</td>
<td>14</td>
<td>1-13/16” x 6</td>
<td>Wall 1 1/2” x 1”</td>
<td>Tension 160%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Joist 8 WS15-EXT</td>
<td>Tension 160%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Deflection (in) 0.119</td>
</tr>
</tbody>
</table>

1) MiTek’s WS15-EXT structural wood screws are 1/4” dia. x 1-1/2” long and are included with DTB-TZ Deck Tie-Backs.
2) Deflections are derived from static, monotonic load tests of devices connected to DF wood members with specified fasteners.
3) Minimum ASTM A307 bolt or 1/2” threaded rod with cut washer and hex nut.

New products or updated product information are designated in blue font.

**Corrosion Finish**
- Stainless Steel
- Gold Coat
- HDG
- Triple Zinc
The CSH-TZ concealed stringer hanger provides a method of connecting a stair stringer with a hidden hanger. The seat of the hanger is adjustable to match the slope of the stair stringer.

The reversible design allows the connector to be used on the left, right, or interior stringers. The CSH-TZ may be used with MiTek’s SCA Stair Angles for a complete, easy-to-use stair framing solution.

**Materials:** 18 gauge

**Finish:** G-185 galvanizing

**Options:** See chart for Corrosion Finish Options

**Codes:** IBC, FL, LA

**Patents:** U.S. Patent No. 7,631,463

**Installation:**
- Use all specified fasteners. See Product Notes, page 18.
- **Bend angle only once.**

**Steps:**
1. Attach CSH-TZ to header with tabs positioned towards the inside of the stringer member.
2. Adjust the seat of the CSH-TZ to match the slope of the stringer member. Diamond shaped holes in the connector allow temporary installation of wood screws to aid in installation of the CSH-TZ.
3. Install 10d (0.148") x 1-1/2" HDG nails into the stringer and rim/band joist.

<table>
<thead>
<tr>
<th>Mitek USP Stock No.</th>
<th>Ref. No.</th>
<th>Steel Gauge</th>
<th>Rim/Band Joist Qty</th>
<th>Type</th>
<th>Wide Face Qty</th>
<th>Narrow Face Qty</th>
<th>DF/SP Allowable Loads (Lbs.)</th>
<th>S-P-F/Hem Fir Allowable Loads (Lbs.)</th>
<th>Code Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSH-TZ LSCZ</td>
<td>18</td>
<td>8</td>
<td>10d x 1-1/2 HDG</td>
<td>4</td>
<td>1</td>
<td>10d x 1-1/2 HDG</td>
<td>890 890 890 370 725 725 725 305</td>
<td>IBC, FL, LA</td>
<td></td>
</tr>
</tbody>
</table>

1) Uplift loads are increased 60% for wind or seismic loads; no further increase shall be permitted.
2) Stainless steel ring shank nails must be used with stainless steel connectors to achieve tabulated allowable loads.
3) **NAILS:** 10d x 1-1/2 HDG nails are 0.148” dia. x 1-1/2” long.

New products or updated product information are designated in **blue font**.
DC Deck Clip

Connects deck boards to joists without face nails or screws. Eliminates rust stains on decks, as well as splintering or wood rot caused by screw or nail “craters”. The DC50-TZ works like tongue-in-groove flooring and is easy to install. Raised dimples on the clip provide consistent spacing between deck boards.

**Materials:** 20 gauge  
**Finish:** G-185 galvanizing  
**Options:** See chart for Corrosion Finish Options

**Installation:**  
- Use all specified fasteners. See Product Notes, page 18.  
- Fits 1-1/8” or thicker decking.  
- Fasten the first deck board onto the joists by toenailing up through the joist below into the deck board. Be sure no sharp points protrude above the deck surface. For subsequent deck board rows, nail DC50-TZ’s onto the deck board edge, positioned 2” from each joist. Slide the deck board along the joist until the DC50-TZ “lip” is under the previously laid deck board. Toenail the deck board's exposed edge to the joist. Repeat until decking is completed. The last deck board will require toenailing up from below to secure the outside edge.

**ML Angles**

ML angles are multi-purpose angles that install easily with MiTek’s WS15 structural wood screws. The staggered fastener pattern allows for back-to-back installations.

**Materials:** 12 gauge  
**Finish:** G-185 galvanizing  
**Options:** See chart for Corrosion Finish Options  
**Codes:** IBC, FL, LA

**Installation:**  
- Use all specified fasteners. See Product Notes, page 18.  
- MiTek’s WS15 (1/4” dia x 1-1/2” long) structural wood screws are not supplied with ML angles.