The Steel Dog® Snap-Coil™ Tie is a multipurpose Transition Tie™ for “job-built” plywood concrete forms. With a button head snap tie electronically welded to a 1/2” coil tie end, the Snap-Coil™ Tie gives the user the versatility of threaded coil rod for one-sided forming, long ties, and other purposes, while still using familiar, low-labor-cost means of attachment to formwork (slotted wedges, Jahn brackets).

**MATERIAL:** Snap tie end and wire struts: AISI C1038 carbon steel. Also available in stainless steel.

**FINISH:** None. (Zinc coatings available: consult factory.)

**MAXIMUM SAFE WORKING LOAD:** 2800 Lbs. (Based on 2-to-1 safety factor).

**INSTALLATION:**

- **ALL APPLICATIONS**
  - ½” coil rod must be threaded completely through coil and extend at least ¼” past coil
  - Do not bend any portion of tie. Bent or damaged ties will fail at less than rated load.
  - See opposite side for help in calculating coil rod length for different applications

**APPLICATIONS**

**ADJUSTABLE LENGTH TIES**

Snap-Coil™ Ties can be threaded back-to-back to create long- or unusual-length ties with different end configurations. For example, a 27½” tie with a long tail on one end and a short tail on the other can be easily assembled on-the-spot from standard components

**TYPICAL APPLICATIONS**
- Battered walls
- Mass pours
- Pile caps
- Pilasters

**BLIND SIDE WALLS**

Steel Dog® Snap-Coil™ Ties and Rebar Hooks provide a fast and low-cost way to use Stay-Form™ stay-in-place expanded metal mesh to form blind side walls (where clearances on one side are too tight to allow for removal of reusable forms).

- Lower labor costs
- Field adjustable length
- Standard components mean no need for custom parts

**ONE-SIDED FORMING EXISTING WALL**

Snap-Coil™ Ties provide a simple and low-cost solution for securing formwork to existing structures for one-sided forming. They can eliminate additional hardware and labor over other methods.

**Typical Existing Walls**
- Concrete
- Wood Lagging
- Brick
- Sheet piling
- Hollow concrete block
- Rock

**ANCHORING MEANS**

Depending on the existing wall material and the design tie loads, the threaded rod may be secured with:

- Drop-in anchors
- Epoxy
- Steel Dog® Coil-Lags™
- Steel Dog® Coil-Studs™
- Steel Dog® Rebar Hooks
- Pivot brackets
- Plate washers and nuts
- Toggle ties

<table>
<thead>
<tr>
<th>Material Code</th>
<th>SC-44</th>
<th>SC-64</th>
<th>SC-68</th>
<th>SC-48</th>
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<tr>
<td>Safe Working Load*</td>
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<td>Box Weight</td>
<td>24 lbs</td>
<td>29 lbs</td>
<td>33 lbs</td>
<td>28 lbs</td>
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*Approximately 2-to-1 Safety Factor
Determining Length of Coil Rod

**Back-to-Back Adjustable**

Take the desired wall thickness and subtract twice the setback to get the median length of coil rod. This will give a total range of adjustment of ±2 inches for the SC-64 and -68 and ±1/4 inch for the SC-44 and -48.

**SC-44, SC-48:** \( L_{\text{med}} = W - 5'' \)

**SC-64, SC-68:** \( L_{\text{med}} = W - 7'' \)

**Stay-Form® Blind Side Wall with Rebar Hook**

In this application, Steel Dog™ Rebar Hooks are used to connect to the rebar studs used to back up Stay-Form® panels. Take the desired wall thickness and subtract the setback for the selected SC. Consult Stay-Form® literature for proper tie and rebar spacing/sizing. (The RH-6 may be used with up to #6 rebar.)

**SC-44, SC-48:** \( L_{\text{med}} = W - 2\frac{1}{2}'' \)

**SC-64, SC-68:** \( L_{\text{med}} = W - 3\frac{1}{2}'' \)

**Minimum Wall (SC-44, SC-48): 6\frac{1}{2}''**

**SC-64, SC-68:** \( 8\frac{1}{2}'' \)

**One-Sided Ties**

Secure the coil rod to existing wall with mechanical anchor, by directly epoxying rod into drilled hole, or other means. (SC’s can be supplied with 1/2"-13NC threads to fit anchors which accept only machine threads.) Add the rod depth to the wall thickness, then subtract the coil rod setback to determine length of coil rod in middle of adjustment range.

**SC-44, SC-48:** \( L_{\text{med}} = (W + D) - 2\frac{1}{2}'' \)

**SC-64, SC-68:** \( L_{\text{med}} = (W + D) - 3\frac{1}{2}'' \)

**Off-the-Shelf Solutions for Many Forming Problems**

The Steel Dog Snap-Coil™ Tie is part of a versatile family of off-the-shelf, interchangeable forming components using industry-standard 1/2” coil rod as the threading element. Choose the components for your form system and application and get an adjustable, labor saving, no lead-time forming solution.

**CAUTION**

- **DO NOT EXCEED THE SAFE WORKING LOAD (2800 LBS.)**
- **DO NOT BEND OR HAMMER ON ANY PART OF THE TIE. DISCARD ANY BENT OR DEFORMED TIES**
- **IT IS THE RESPONSIBILITY OF THE USER TO ENSURE ADEQUATE ANCHORAGE TO EXISTING WALL. FOLLOW ANCHOR MFR’S INSTRUCTIONS**
- **USE NARROWER PANELS OR OTHER TECHNIQUES TO DECREASE TIE SPACING IF UNSURE OF ANCHORAGE**
- **KNOW YOUR TIE LOADS**

**Threads**

Threaded element must extend at least 1/4” beyond coil (see diagram)