



# TIE MAX

## Installation Instructions

### TIE MAX EMBED PLACEMENT

#### Field Placement

1. Determine the location of the TIE MAX Field bolt.
2. At the proper location, insert the TIE MAX Field bolt with its PVC pipe into the ground using a drive sleeve. (1" X 12" Pipe) until the bottom of the threads are at the top of the slab elevation.  
**Important Note: Do not hammer top of bolt. It will not drive!**
3. Make concrete pour.

#### Edge Placement

1. Determine the location of the TIE MAX Edge bolt and mark the top of the form board for wet setting or place the TIE MAX bolt reusable anchor hanger prior to concrete pour.
  - **Corner placement:** The TIE MAX embed shall be located 7 inches to 22 inches away from the corner of the structure to allow clearance for framing members.
  - **Exterior walls:** The TIE MAX embeds shall be located 2 inches from the edge of slab with spacing as required to meet uplift values.
2. Position the TIE MAX embeds with the bottom of the threads at the top of slab. This insures the required 7-inches of embedment.
3. Make concrete pour. (The TIE MAX Edge bolt may be wet set during the pour.) Insert the TIE MAX bolt to the bottom of the threads with a 2-inch distance and consolidate the concrete.)

#### Retrofit

In retrofit situations after the concrete has been placed, use a 10-1/2 inch long 5/8-inch diameter TIE MAX STUD. Install the TIE MAX STUD with **POWERS POWER BOND** epoxy adhesive following all manufacturers' instructions. See detail instructions on the following page.

### TIE MAX THREADED ROD

1. With wall framing in place, secure proper TIE MAX square washer to the sole plate with a 5/8 TIE MAX hex nut.
2. Install a TIE MAX 5/8" to 1/2" reducing coupler to the end of the TIE MAX threaded rod to be connected to the TIE MAX embed. Drill holes in the top plate or base plate if 2 or more stories and insert the rod into the top plate. Pull down on the rod till the end of the rod and the TIE MAX embed butt together. Spin the coupler down onto embed. (Center a TIE MAX 5/8" to 5/8" coupler when using 5/8" rod.)
3. Select threaded rod by length, which will allow sufficient room for couplers to be placed above or below double top plates or base plates. Butt the ends of the threaded rods together, center coupler over the rod ends.

### TIE MAX TOP PLATE WASHER

1. Place TIE MAX steel plate washer on the threaded rod above the double top plate. See Table 3-A or 3-B of the TIE MAX Quick Reference sheet.
2. Secure the washer with a TIE MAX hex nut.
3. Just prior to installing interior wall sheathing, Hand tighten nuts, then one turn with wrench per floor to secure washer and tension rod. The TIE MAX system does not require a specific amount of torque.

**TIE MAX is a Structural Tie Down System. All components must be of TIE MAX manufacture.**