

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION FR-30

Effective July 1, 2005

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation 3 years after the effective date.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.*

**Fiberglass Decorative Columns** manufactured by:

**Starling, Inc.**  
**P.O. Box 937**  
**Eden Church Road**  
**Denham Springs, Louisiana 70727-0937**  
**(225) 664-3361**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturers installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

The columns are decorative columns that are manufactured of a reinforced fiberglass composite. The columns are available in plain and fluted configurations. The columns are available in several diameters and a variety of lengths. Several ornamental capitals and bases are also available.

## LIMITATIONS

For uplift resistance, Starling, Inc. specifies the use of a Go-Bolt Preset Anchor Bolt system manufactured by Go-Bolt, Inc. If the Go-Bolt anchoring system is embedded into either a concrete slab on grade foundation or a concrete bond beam, then the maximum allowable uplift load for the system is 3,989 lbs. if Southern Pine top plates are used and 3,723 lbs. if Spruce-Pine-Fir top plates are used.

## INSTALLATION INSTRUCTIONS

Starling, Inc.'s and Go-Bolt, Inc.'s installation instructions shall be followed when installing the fiberglass decorative columns to resist uplift loads. The Go-Bolt anchor system is a combination anchor bolt, tie rod system that is set into the concrete while the concrete is still wet. The tie rod passes internally through the column and is secured to the concrete foundation at the bottom and to the wood framing of the structure at the top. The Go-Bolt anchoring system consists of a plastic sleeved threaded steel rod with a plastic stake for embedment into the ground. The concrete foundation is placed around the sleeved threaded rod with the top of the rod flush with the top of the foundation. After the concrete is set, screw the bolt out of the slab using a standard screwdriver. Attach a bolt or coupler to the rod to anchor the wood stud wall to the foundation.

### INSTALLATION INSTRUCTIONS (Continued)

The following components shall be used to install the Go-Bolt System:

- Washer: 3 inch x 3 inch x  $\frac{1}{4}$ -inch plate washer from steel hot rolled ASTM A569.
- Nuts:  $\frac{1}{2}$  inch x 13 Hex Nut. Width across flats =  $\frac{3}{4}$  inch. Thickness =  $\frac{7}{16}$  inch. Type = Grade 2. Low or medium carbon steel, SAE J995.
- Embedded Sleeve:  $\frac{1}{2}$  inch Potable Tubing. Thickness = 0.062 inch. ASTM D3309.
- Stake:  $\frac{3}{4}$  inch PVC - SCH. 40, Type 1, Grade 1, Wall Thickness = 0.113 inches, ASTM D1785.
- Coupler:  $\frac{1}{2}$  inch - 13 x  $1\frac{3}{4}$  inch, Grade A, carbon steel, ASTM A563 Grade A.
- Threaded Rod:  $\frac{1}{2}$  inch - 13, 1008 Steel, ASTM A36, roll thread diameter = 0.476 inches, minimum yield strength 60,000 psi, zinc plating ASTM B633.
- Stake Sealant: Enerfoam, UL File R14540.

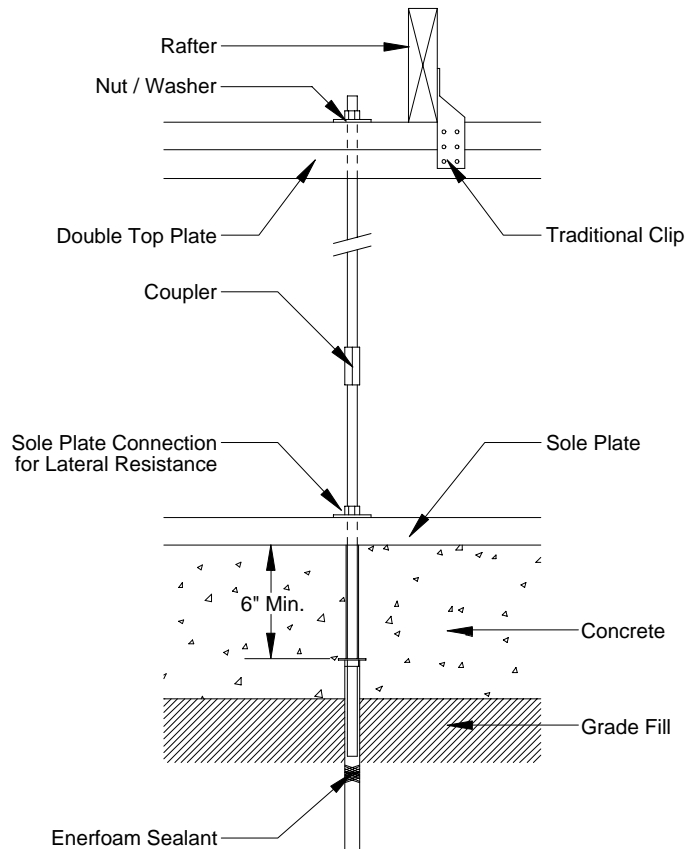


Figure 1: Go-Bolt Anchoring System

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).

