

## F1 Screw Anchor and F2 Screw Anchor Bolt

F1 Screw Anchors are excellent for re-anchor of forms and have been used for years. The flat wire of the anchor, in full contact with the bolt threads, transfers the load into the surrounding concrete. The screw anchor must be threaded onto the bolt and locked against the skein threads of the bolt by a hard twist. The screw anchor is the most economical insert to use when depth of embedment is available.

The safe working loads shown can only be developed when the assembled bolt and anchor is embedded at least ten times the bolt diameter. If the screw anchor is inserted after the concrete is placed, the concrete must be thoroughly vibrated in order to develop the safe working loads.

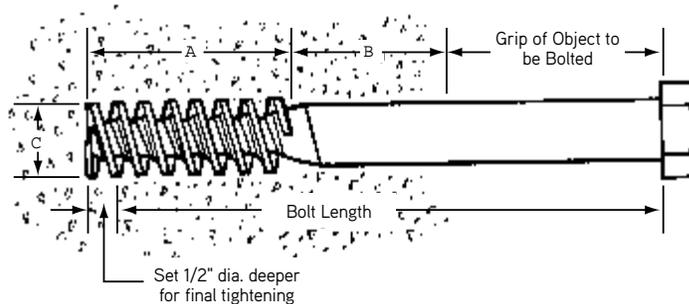
**CAUTION:** The Screw Anchor Bolt is not interchangeable with either a Coil Bolt or National Course Bolts.

For ease of bolt removal, coat screw anchor bolts with a water resistant grease. It is important that the bond between the bolt and concrete be broken by twisting the bolt at least one turn as soon as the concrete has reached a compressive strength of 1,000 to 1,500 psi.

F1 Screw Anchor Selection Chart

| Bolt Dia. ASTM A307 with Skein Threads | Safe WorkingLoad (lbs.) |        | Concrete Strength (psi) | Minimum Edge Distance | Dimensions |        |        |
|--|-------------------------|--------|-------------------------|-----------------------|------------|--------|--------|
|  | Tension                 | Shear  |                         |                       | A          | B      | C      |
| 3/4"                                   | 8,200                   | 5,400  | 3,000                   | 9"                    | 4"         | 3-1/2" | 1-1/4" |
| 1"                                     | 15,400                  | 10,200 | 3,000                   | 11"                   | 6"         | 4"     | 1-1/2" |
| 1-1/4"                                 | 23,000                  | 15,300 | 3,000                   | 13"                   | 7"         | 5-1/2" | 2"     |
| 1-1/2"                                 | 35,000                  | 23,200 | 3,000                   | 17"                   | 8"         | 7"     | 2-1/4" |

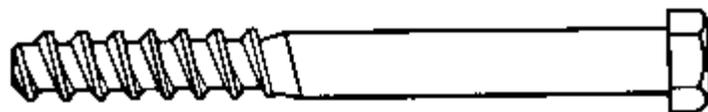
1-3/4" and 2" F1 and F2 are available on special order.  
SWL provides a factor of safety of approximately 2 to 1.



**Assembled Bolt and Anchor**  
(A&B Must Equal Ten Times Bolt Dia.)



**F1 Screw Anchor**



**F2 Screw Anchor Bolt**

**To Order:**  
Specify: (1) quantity, (2) name, (3) size, (4) finish (Plain or Electroplated).

**Example:**  
1,000 pcs. F1 Screw Anchors, 3/4" diameter, Electroplated.

**To Order:**  
Specify: (1) quantity, (2) name, (3) diameter of bolt, (4) length of bolt, (5) finish (Plain or Electroplated).

**Example:**  
50 pcs. F2 Screw Anchor Bolts, 3/4" diameter, 8" long, Electroplated.