

**The Secure-Bolt** Sleeve Anchor provides maximum security in concrete, block, brick and stone base materials. It is fast and accurate to install and no layout or hole spotting is required. The versatile one-piece assembly comes standard with a stainless steel post and either a steel zinc plated or stainless steel anchor body.

The Trident Nut Sleeve Anchor provides maximum security in concrete, block, brick, and stone base materials. Tanner offers this product with a 316 stainless steel Trident nut and an 18-8 stainless steel anchor body or a zinc diecast Trident nut with a zinc plated anchor body. The internally threaded Trident nut features a conical design that prevents unauthorized removal. It has 3 indented slots for installation with a proprietary tool.



### BUTTON HEAD Secure-Bolt Sleeve Anchors

| SKU           | Diameter         | Length | Driver Size | Box Qty |
|---------------|------------------|--------|-------------|---------|
| STAINLESS STE | EL POST & ZINC B | ODY    |             | I       |
| 25N125ABS     | 1/4"             | 1-1/4" | 27TXH       | 100     |
| 25N200ABS     | 1/4"             | 2"     | 27TXH       | 100     |
| 25N275ABS     | 1/4"             | 2-3/4" | 27TXH       | 100     |
| 25N375ABS     | 1/4"             | 3-3/4" | 27TXH       | 50      |
| 25N525ABS     | 1/4"             | 5"     | 27TXH       | 50      |
| 37N250ABS     | 3/8"             | 2-1/2" | 45TXH       | 50      |
| 37N375ABS     | 3/8"             | 3-3/4" | 45TXH       | 25      |
| 37N475ABS     | 3/8"             | 4-3/4" | 45TXH       | 25      |
| 50N325ABS     | 1/2"             | 3-1/4" | 55TXH       | 25      |
| 50N400ABS     | 1/2"             | 4"     | 55TXH       | 25      |
| 50N500ABS     | 1/2"             | 5"     | 55TXH       | 25      |
| 50N700ABS     | 1/2"             | 7"     | 55TXH       | 25      |
| 62N375ABS     | 5/8"             | 3-3/4" | 55TXH       | 25      |
| 62N425ABS     | 5/8"             | 4-1/4" | 55TXH       | 25      |
| 62N575ABS     | 5/8"             | 5-3/4" | 55TXH       | 25      |
| 62N700ABS     | 5/8"             | 7"     | 55TXH       | 25      |
| STAINLESS STE | EL POST & BODY   |        |             |         |
| 25N200ABSS    | 1/4"             | 2"     | 27TXH       | 100     |
| 25N275ABSS    | 1/4"             | 2-3/4" | 27TXH       | 100     |
| 25N375ABSS    | 1/4"             | 3-3/4" | 27TXH       | 50      |
| 37N250ABSS    | 3/8"             | 2-1/2" | 45TXH       | 50      |
| 37N375ABSS    | 3/8"             | 3-3/4" | 45TXH       | 25      |
| 37N475ABSS    | 3/8"             | 4-3/4" | 45TXH       | 25      |
| 50N325ABSS    | 1/2"             | 3-1/4" | 55TXH       | 25      |
| 50N400ABSS    | 1/2"             | 4"     | 55TXH       | 25      |



#### FLAT HEAD (countersunk head) Secure-Bolt Sleeve Anchors

| SKU                         | Diameter           | Length | Driver Size | Box Qty |  |  |
|-----------------------------|--------------------|--------|-------------|---------|--|--|
| STAINLESS STEE              | L POST & ZINC BODY |        |             |         |  |  |
| 25N150AFS                   | 1/4"               | 1-1/2" | 30TXH       | 100     |  |  |
| 25N200AFS                   | 1/4"               | 2"     | 30TXH       | 100     |  |  |
| 25N300AFS                   | 1/4"               | 3"     | 30TXH       | 100     |  |  |
| 25N400AFS                   | 1/4"               | 4"     | 30TXH       | 50      |  |  |
| 37N275AFS                   | 3/8"               | 2-3/4" | 45TXH       | 50      |  |  |
| 37N400AFS                   | 3/8"               | 4"     | 45TXH       | 50      |  |  |
| 37N500AFS                   | 3/8"               | 5"     | 45TXH       | 25      |  |  |
| 37N600AFS                   | 3/8"               | 6"     | 45TXH       | 25      |  |  |
| 50N350AFS                   | 1/2"               | 3-1/2" | 50TXH       | 25      |  |  |
| 50N400AFS                   | 1/2"               | 4"     | 50TXH       | 25      |  |  |
| 50N525AFS                   | 1/2"               | 5-1/4" | 50TXH       | 25      |  |  |
| 50N700AFS                   | 1/2"               | 7"     | 50TXH       | 25      |  |  |
| STAINLESS STEEL POST & BODY |                    |        |             |         |  |  |
| 25N200AFSS                  | 1/4"               | 2"     | 30TXH       | 100     |  |  |
| 25N300AFSS                  | 1/4"               | 3"     | 30TXH       | 100     |  |  |
| 25N400AFSS                  | 1/4"               | 4"     | 30TXH       | 100     |  |  |
| 37N275AFSS                  | 3/8"               | 2-3/4" | 45TXH       | 50      |  |  |
| 37N400AFSS                  | 3/8"               | 4"     | 45TXH       | 50      |  |  |
| 37N500AFSS                  | 3/8"               | 5"     | 45TXH       | 25      |  |  |
| 37N600AFSS                  | 3/8"               | 6"     | 45TXH       | 25      |  |  |
| 50N525AFSS                  | 1/2"               | 5-1/4" | 50TXH       | 25      |  |  |

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#### **TRIDENT NUT SECURE-BOLT SLEEVE ANCHORS**

316SS Trident Nut & 18-8SS Sleeve Anchor Body

| SKU        | Diameter | Length | Driver Size | Box Qty |
|------------|----------|--------|-------------|---------|
| 31N150ATRS | 5/16"    | 1-1/2" | 20TRI       | 50      |
| 31N250ATRS | 5/16"    | 2-1/2" | 20TRI       | 50      |
| 37N178ATRS | 3/8"     | 1-7/8" | 30TRI       | 50      |
| 37N300ATRS | 3/8"     | 3"     | 30TRI       | 50      |
| 37N400ATRS | 3/8"     | 4"     | 30TRI       | 50      |
| 37N600ATRS | 3/8"     | 6"     | 30TRI       | 50      |
| 50N225ATRS | 1/2"     | 2-1/4" | 30TRI       | 50      |
| 50N300ATRS | 1/2"     | 3"     | 30TRI       | 25      |
| 50N400ATRS | 1/2"     | 4"     | 30TRI       | 25      |
| 50N500ATRS | 1/2"     | 5"     | 30TRI       | 25      |
| 62N300ATRS | 5/8"     | 3"     | 40TRI       | 25      |
| 62N425ATRS | 5/8"     | 4-1/4" | 40TRI       | 25      |
| 62N600ATRS | 5/8"     | 6"     | 40TRI       | 25      |

#### **TRIDENT NUT SECURE-BOLT SLEEVE ANCHORS**

Zinc Diecast Trident Nut & Zinc Plated Anchor Body

| SKU        | Diameter | Length | Driver Size | Box Qty |
|------------|----------|--------|-------------|---------|
| 31N150ATRZ | 5/16"    | 1-1/2" | 20TRI       | 50      |
| 31N250ATRZ | 5/16"    | 2-1/2" | 20TRI       | 50      |
| 37N187ATRZ | 3/8"     | 1-7/8" | 30TRI       | 50      |
| 37N300ATRZ | 3/8"     | 3"     | 30TRI       | 50      |
| 37N400ATRZ | 3/8"     | 4"     | 30TRI       | 50      |
| 50N225ATRZ | 1/2"     | 2-1/4" | 30TRI       | 50s     |
| 50N300ATRZ | 1/2"     | 3"     | 30TRI       | 25      |
| 50N400ATRZ | 1/2"     | 4"     | 30TRI       | 25      |
| 50N600ATRZ | 1/2"     | 6"     | 30TRI       | 25      |

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#### **Ultimate Load Capacities**

FOR CARBON STEEL SLEEVE ANCHORS IN NORMAL WEIGHT CONCRETE

| Nominal An-            | Minimum   | Carbon Sleeve | Tension            | Shear           |
|------------------------|---|---------------|--------------------|-----------------|
| chor Diameter<br>(in.) | or Diameter Embed- Anchors To<br>(in.) ment ftlbs |               | 4,000 psi          | 4,000 psi       |
|                        | Depth (in.)                                       |               | Ultimate<br>(Ibs.) | Ultimate (lbs.) |
| 1//"                   | 1/2"  | 2             | 731                | 925             |
| 1/4                    | 1"  | 6             | 611                | 1,241           |
| 5/16"                  | 1"  | 12            | 1,406              | 1,870           |
| 2/9                    | 1-1/4"  | 18            | 1,964              | 3,122           |
| 3/8                    | 2-1/4"  | 18            | 3,422              | 3,122           |
| 1/2"                   | 1-1/2"  | 26            | 2,795              | 3,982           |
| 5/8                    | 2"  | 50            | 4,560              | 7,154           |
|                        | 2-1/4"  | 50            | 7,572              | 7,154           |

- 1. Ultimate load capacities must be reduced by a minimum factor of safety of 4.0 to determine allowable loads
- Consideration of safety factors of 10 or higher may be necessary depending on application, such as life safety or overhead
- 3. Tabulated load values are for anchors installed in uncracked concrete
- 4. The concrete compressive strength must be at the specified minimum at the time of installation
- 5. Load capacities with safety factors can be used for stainless steel anchors

#### **Allowable Load Capacities**

FOR CARBON STEEL SLEEVE ANCHORS IN NORMAL WEIGHT CONCRETE

| Nominal            | Minimum            | Carbon Sleeve                          | Tension             | Shear            |
|--------------------|--------------------|--|---------------------|------------------|
| Anchor<br>Diameter | Embedment<br>Depth | nbedment Anchors<br>Depth Torque ftIbs |                     | 4,000 psi        |
| (in.)              | -                  |  | Allowable<br>(lbs.) | Allowable (lbs.) |
| 1 / 42             | 1/2"               | 2                                      | 183                 | 231              |
| 1/4                | 1"                 | 6                                      | 153                 | 310              |
| 5/16"              | 1"                 | 12                                     | 351                 | 468              |
| 0.407              | 1-1/4"             | 18                                     | 491                 | 781              |
| 3/8                | 2-1/4"             | 18                                     | 856                 | 781              |
| 1/2"               | 1-1/2"             | 26                                     | 700                 | 996              |
| F (0)              | 2"                 | 50                                     | 1,140               | 1,788            |
| 5/8                | 2-1/4"             | 50                                     | 1,893               | 1,788            |

1. Ultimate load capacities must be reduced by a minimum factor of safety of 4.0 to determine allowable loads

Consideration of safety factors of 10 or higher may be necessary depending on application, such as life safety or overhead

- 3. Tabulated load values are for anchors installed in uncracked concrete
- 4. The concrete compressive strength must be at the specified minimum at the time of installation

5. Load capacities with safety factors can be used for stainless steel anchors

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#### **Ultimate Load Capacities**

FOR CARBON STEEL SLEEVE ANCHORS IN GROUT FILLED BLOCK (CMU)

| Nominal            | Minimum            | Tension            | Shear              | Tension            | Shear              |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Anchor<br>Diameter | Embedment<br>Depth | 2,000 psi          | 2,000 psi          | 3,000 psi          | 3,000 psi          |
| (in.)              | -                  | Ultimate<br>(Ibs.) | Ultimate<br>(Ibs.) | Ultimate<br>(Ibs.) | Ultimate<br>(Ibs.) |
| 1/4"               | 1"                 | 500                | 1,000              | 821                | 1,000              |
| 5/16"              | 1"                 | 800                | 1,600              | 889                | 1,600              |
| 3/8"               | 1-1/4"             | 1,200              | 1,800              | 1,880              | 1,800              |
| 1/2"               | 1-1/2"             | 1,400              | 2,000              | 2,313              | 2,000              |
| 5/8"               | 2"                 | 1,600              | 2,200              | 1,946              | 2,200              |

1. Tabulated load values are ultimate loads and must be reduced by a factor of safety of 5.0 or greater to determine allowable working loads. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety.

CMU compressive strength must be at the specified minimum at the time of installation. Consideration of job site testing is recommended to verify conformance of base material and anchor performance.

See laboratory data sheets for specific information related to each individual test performed

4. Load capacities with safety factors can be used for stainless steel anchors

#### **Specifications** BUTTON SECURE-BOLT HEAD

|                    | ¼" Button<br>head Se-<br>cure-Bolts | 3/8" Button<br>head Se-<br>cure-Bolts | ½" Button<br>head Se-<br>cure-Bolts | 5/8" Button<br>head Se-<br>cure-Bolts |
|--------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|
| Head Diam-<br>eter | .419"437"                           | .636"656"                             | .852"869"                           | .970"-1.07"                           |
| Head Height        | .122".132"                          | .185"-0.199"                          | .260"270"                           | .310"330"                             |
| Driver Size        | T-27                                | T-45                                  | T-55                                | T-55                                  |

#### **Specifications** TRIDENT HEAD, 316 STAINLESS STEEL NUT & 18-8 STAINLESS STEEL SLEEVE ANCHOR

| Nominal Nut<br>Size | Driver<br>Size | (BD) Bottom Dia.<br>(MAX) | <mark>(TD)</mark> Top Dia.<br>(REF) | (H) Height<br>Range |
|---------------------|----------------|---------------------------|-------------------------------------|---------------------|
| 1/4"-20             | 20TRI          | 0.661                     | 0.446                               | .260270             |
| 5/16"-18            | 30TRI          | 0.83                      | 0.542                               | .340350             |
| 3/8"-16             | 30TRI          | 0.83                      | 0.542                               | .340350             |
| 1/2"-13             | 40TRI          | 0.945                     | 0.662                               | .345355             |



#### **Allowable Load Capacities**

FOR CARBON STEEL SLEEVE ANCHORS IN GROUT FILLED BLOCK (CMU)

| Nominal                        | Minimum | Tension             | Shear               | Tension             | Shear               |
|--------------------------------|---------|---------------------|---------------------|---------------------|---------------------|
| Anchor Embed-<br>Diameter ment |         | 2,000 psi           | 2,000 psi           | 3,000 psi           | 3,000 psi           |
| (in.)                          | Depth   | Allowable<br>(Ibs.) | Allowable<br>(lbs.) | Allowable<br>(lbs.) | Allowable<br>(lbs.) |
| 1/4"                           | 1"      | 100                 | 200                 | 165                 | 200                 |
| 5/16"                          | 1"      | 160                 | 320                 | 178                 | 320                 |
| 3/8"                           | 1-1/4"  | 240                 | 360                 | 376                 | 360                 |
| 1/2"                           | 1-1/2"  | 280                 | 400                 | 463                 | 400                 |
| 5/8"                           | 1-1/2"  | 320                 | 440                 | 390                 | 440                 |

1. Tabulated load values are ultimate loads and must be reduced by a factor of safety of 5.0 or greater to determine allowable working loads. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety.

CMU compressive strength must be at the specified minimum at the time of installation. Consideration of job site testing is recommended to verify conformance of base material and anchor performance.

See laboratory data sheets for specific information related to each individual test performed.

4. Load capacities with safety factors can be used for stainless steel anchors

#### **Specifications** FLAT SECURE-BOLT HEAD

|               | 1⁄4' Flat Head Se-<br>cure-Bolts | 3/8" Flat Head<br>Secure-Bolts | ½″ Flat Head<br>Secure-Bolts |
|---------------|----------------------------------|--------------------------------|------------------------------|
| Head Diameter | .480"531"                        | .720"781"                      | .872"938"                    |
| Head Height   | .185 (Ref.)                      | .234" (Ref.)                   | .251" (Ref.)                 |
| Driver Size   | T-30                             | T-45                           | T-50                         |
| Head Degree   | 80° ±2°                          | 80° ±2°                        | 80° ±2°                      |



#### Installation

Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/2" or one anchor diameter deeper than the embedment required.

Blow the hole clean of dust and other material. Do not expand the anchor prior to installation.

Drive the anchor through the fixture into the anchor hole until the head is firmly seated against the fixture. Use a rubber mallet. Be sure the anchor is driven to the required embedment depth.

Tighten the anchor by turning the head 3 to 5 turns past finger tight or by applying the guide installation torque from the finger tight position.

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