

# Product Submittal

Coversheet



**Total Pages:** 6

**Submitted By:**

**Submitted To:**

## Products

### Anchoring Systems

Titen HD® Mechanically Galvanized Heavy-Duty  
Screw Anchor

Approved with Notes  
Approved  
Denied

  

## Notes

---

## Anchoring Systems

|  |          |
|--|----------|
| <b>Titen HD® Mechanically Galvanized Heavy-Duty Screw Anchor</b> ..... | <b>3</b> |
| Product Overview.....  | 3        |

## Titen HD® Mechanically Galvanized Heavy-Duty Screw Anchor



The Titen HD heavy-duty screw anchor is a mechanically galvanized high-strength screw anchor for use in cracked and uncracked concrete, as well as uncracked masonry. Its proprietary heat treatment and ASTM B695 Class 65 mechanically galvanized coating make it ideal for both interior and exterior anchoring applications.

The Titen HD screw anchor is designed for a wide variety of applications such as sill plates, ledgers, post bases, seating, and other holdown applications. The screw anchor is easy to remove for use in temporary applications such as bracing and formwork, or when a fixture needs to be relocated.

### Key Features

- Head-stamped for easy identification
- Serrated teeth on the tip facilitates cutting and reduces installation torque
- Thread design undercuts to efficiently transfer the load to the base material
- Standard fractional sizes, hole size equals anchor size
- Specialized heat-treating process creates tip hardness for better cutting without compromising ductility
- Hex washer head requires no separate washer, unless required by code
- Fully and easily removable
- Code listed for exterior applications

### Material

- Carbon steel

### Finish

- Mechanically galvanized

### Installation

- Drill a hole in the base material using a carbide drill bit the same diameter as the nominal diameter of the anchor to be installed. Drill the hole to the specified embedment depth plus minimum hole depth overdrill (see table below) to allow the thread tapping dust to settle, and blow it clean using compressed air. (Overhead installations need not be blown clean.) Alternatively, drill the hole deep enough to accommodate embedment depth and the dust from drilling and tapping.
- Insert the anchor through the fixture and into the hole.
- Tighten the anchor into the base material until the hex-washer head contacts the fixture.

| Titen HD Diameter (in.) | Wrench Size (in.) | Recommended Fixture Hole Size (in.) | Min. Hole Depth Overdrill (in.) |
|-------------------------|-------------------|-------------------------------------|---------------------------------|
| 3/8                     | 9/16              | 1/2 to 9/16                         | 1/4                             |
| 1/2                     | 3/4               | 5/8 to 11/16                        | 1/2                             |
| 5/8                     | 15/16             | 3/4 to 13/16                        | 1/2                             |

Suggested fixture hole sizes are for structural steel thicker than 12 gauge only. Larger holes are not required for wood or thinner cold-formed steel members.

# Product Submittal

Titen HD® Mechanically Galvanized Heavy-Duty Screw Anchor (Continued)

**SIMPSON**

**Strong-Tie**

---

| Titen HD Diameter (in.) | Wrench Size (in.) | Recommended Fixture Hole Size (in.) | Min. Hole Depth Overdrill (in.) |
|-------------------------|-------------------|-------------------------------------|---------------------------------|
| 3/4                     | 1 1/8             | 7/8 to 15/16                        | 1/2                             |

Suggested fixture hole sizes are for structural steel thicker than 12 gauge only. Larger holes are not required for wood or thinner cold-formed steel members.

## ***Disclaimer***

Some specific models of this product might not be covered in the associated code reports. Please verify coverage for the models you wish to use

---

# Product Submittal

**SIMPSON**

**Strong-Tie**

Titen HD® Mechanically Galvanized Heavy-Duty Screw Anchor (Continued)

## Product Information Table

| Model No.    | Coating/Material                       | Size (in.)  | Drill Bit Dia. (in.) | Wrench Size (in.) | Thread Length (in.) | Recommended Fixture Hole Size (in.) | Box Qty. | Carton Qty. |
|--------------|--|-------------|----------------------|-------------------|---------------------|-------------------------------------|----------|-------------|
| THD37300HMG  | Mechanically Galvanized / Carbon Steel | 3/8 x 3     | 3/8                  | 9/16              | 2 1/2               | 1/2 to 9/16                         | 50       | 200         |
| THD37400HMG  | Mechanically Galvanized / Carbon Steel | 3/8 x 4     | 3/8                  | 9/16              | 3 1/2               | 1/2 to 9/16                         | 50       | 200         |
| THD37500HMG  | Mechanically Galvanized / Carbon Steel | 3/8 x 5     | 3/8                  | 9/16              | 4 1/2               | 1/2 to 9/16                         | 50       | 100         |
| THD37600HMG  | Mechanically Galvanized / Carbon Steel | 3/8 x 6     | 3/8                  | 9/16              | 5 1/2               | 1/2 to 9/16                         | 50       | 100         |
| THD501200HMG | Mechanically Galvanized / Carbon Steel | 1/2 x 12    | 1/2                  | 3/4               | 5 1/2               | 5/8 to 11/16                        | 5        | 20          |
| THD50400HMG  | Mechanically Galvanized / Carbon Steel | 1/2 x 4     | 1/2                  | 3/4               | 3 1/2               | 5/8 to 11/16                        | 20       | 80          |
| THD50500HMG  | Mechanically Galvanized / Carbon Steel | 1/2 x 5     | 1/2                  | 3/4               | 4 1/2               | 5/8 to 11/16                        | 20       | 80          |
| THD50600HMG  | Mechanically Galvanized / Carbon Steel | 1/2 x 6     | 1/2                  | 3/4               | 5 1/2               | 5/8 to 11/16                        | 20       | 80          |
| THD50612HMG  | Mechanically Galvanized / Carbon Steel | 1/2 x 6 1/2 | 1/2                  | 3/4               | 5 1/2               | 5/8 to 11/16                        | 20       | 40          |
| THD50800HMG  | Mechanically Galvanized / Carbon Steel | 1/2 x 8     | 1/2                  | 3/4               | 5 1/2               | 5/8 to 11/16                        | 20       | 40          |
| THD75100HMG  | Mechanically Galvanized / Carbon Steel | 3/4 x 10    | 3/4                  | 1 1/8             | 5 1/2               | 7/8 to 15/16                        | 5        | 10          |
| THD75500HMG  | Mechanically Galvanized / Carbon Steel | 3/4 x 5     | 3/4                  | 1 1/8             | 4 1/2               | 7/8 to 15/16                        | 5        | 20          |
| THD75812HMG  | Mechanically Galvanized / Carbon Steel | 3/4 x 8 1/2 | 3/4                  | 1 1/8             | 5 1/2               | 7/8 to 15/16                        | 5        | 10          |
| THDB62100HMG | Mechanically Galvanized / Carbon Steel | 5/8 x 10    | 5/8                  | 15/16             | 5 1/2               | 3/4 to 13/16                        | 10       | 20          |
| THDB62500HMG | Mechanically Galvanized / Carbon Steel | 5/8 x 5     | 5/8                  | 15/16             | 4 1/2               | 3/4 to 13/16                        | 10       | 40          |
| THDB62600HMG | Mechanically Galvanized / Carbon Steel | 5/8 x 6     | 5/8                  | 15/16             | 5 1/2               | 3/4 to 13/16                        | 10       | 40          |
| THDB62612HMG | Mechanically Galvanized / Carbon Steel | 5/8 x 6 1/2 | 5/8                  | 15/16             | 5 1/2               | 3/4 to 13/16                        | 10       | 40          |

# Product Submittal

**SIMPSON**

**Strong-Tie**

Titen HD® Mechanically Galvanized Heavy-Duty Screw Anchor (Continued)

---

| Model No.    | Coating/Material                       | Size (in.) | Drill Bit Dia. (in.) | Wrench Size (in.) | Thread Length (in.) | Recommended Fixture Hole Size (in.) | Box Qty. | Carton Qty. |
|--------------|--|------------|----------------------|-------------------|---------------------|-------------------------------------|----------|-------------|
| THDB62800HMG | Mechanically Galvanized / Carbon Steel | 5/8 x 8    | 5/8                  | 15/16             | 5 1/2               | 3/4 to 13/16                        | 10       | 20          |
| THDT75600HMG | Mechanically Galvanized / Carbon Steel | 3/4 x 6    | 3/4                  | 1 1/8             | 4 1/2               | 7/8 to 15/16                        | 5        | 20          |

1. Mechanical galvanizing meets ASTM B695, Class 65, Type 1. Intended for exterior application and some interior pressure-treated wood sill plate applications. See Supplemental Topics for Anchors.