

Now available in Type 316 Stainless Steel

# Titen HD® Heavy-Duty Screw Anchor Countersunk Head Style

SIMPSON

Strong-Tie®

The Titen HD is a high-strength screw anchor for use in cracked and uncracked concrete, as well as masonry.

This versatile screw anchor comes in a Type 316 stainless-steel option.

The Titen HD offers low installation torque and outstanding performance. The Titen HD (carbon steel) is designed for use in dry, interior, noncorrosive environments or temporary outdoor applications, while the Titen HD Type 316 stainless-steel option offers you long-lasting corrosion resistance for unsurpassed peace of mind. Titen HD offers industry-leading performance even in seismic and wind-governed conditions.

The countersunk head style is for applications that require a flush-mount profile. Countersinking also leaves a cleaner surface appearance for exposed through-set applications. The anchor head's 6-lobe drive eases driving and is less prone to stripping than traditional recessed anchor heads.

## Titen HD Countersunk Features and Benefits

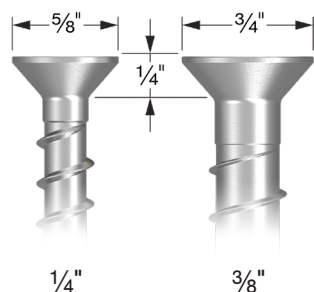
- Type 316 stainless-steel option
- Qualified for static, wind and seismic loading conditions
- Standard fractional sizes, hole size same as anchor size
- No special drill bit required — designed to install using standard-sized ANSI tolerance drill bits
- Removable — ideal for temporary anchoring or applications where fixtures may need to be moved
- Countersunk head allows screw anchor applications incompatible with a hex head
- Available in 1/4" and 3/8" diameters
- Driver bit included in each box

**Codes:** ICC-ES ESR-2713 (concrete, carbon steel); IAPMO UES ER-493 (concrete, stainless steel); ICC-ES ESR-1056 (masonry, carbon steel)

**Material:** Available in carbon steel (zinc plated) and Type 316 stainless steel



Titen HD countersunk installation.



Countersunk Head Dimensions



Carbon Steel      Stainless Steel

Titen HD Screw Anchor  
[strongtie.com/patents](http://strongtie.com/patents)



6-lobe drive



The stainless-steel version of the Titen HD Countersunk features innovative carbon-steel threads that effectively cut the concrete while significantly limiting the amount of carbon steel in the anchor.

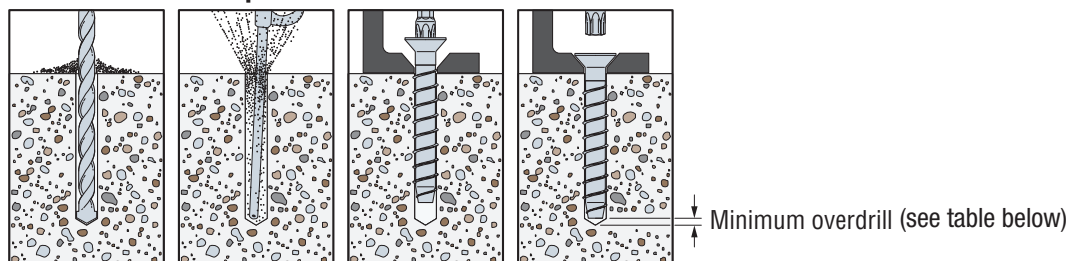
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## Titen HD Screw Anchor Product Data — Countersunk Head

Size (in.)	Model No.	Drill Bit Dia. (in.)	Bit Size	Box Qty.	Carton Qty.
1/4 x 1 7/8	THDB25178CS	1/4	T30	100	500
1/4 x 2 3/4	THDB25234CS	1/4	T30	50	250
1/4 x 3 1/2	THDB25312CS	1/4	T30	50	250
1/4 x 4 1/2	THDB25412CS	1/4	T30	50	250
3/8 x 2 1/2	THD37212CS†	3/8	T50	50	200
3/8 x 3	THD37300CS	3/8	T50	50	200
3/8 x 4	THD37400CS	3/8	T50	50	200
3/8 x 5	THD37500CS	3/8	T50	50	100
1/4 x 2 3/8	THDC25238CS6SS	1/4	T30	25	250
1/4 x 3	THDC25300CS6SS	1/4	T30	25	250
1/4 x 4	THDC25400CS6SS	1/4	T30	25	250
3/8 x 2 1/2	THD37212CS6SS†	3/8	T50	25	125
3/8 x 3	THD37300CS6SS	3/8	T50	25	125
3/8 x 4	THD37400CS6SS	3/8	T50	25	125

† This model does not meet minimum embedment depth requirements for strength design and requires a maximum installation torque of 25 ft.-lb. using a torque wrench, driver drill or cordless 1/4" impact driver with a maximum permitted torque rating of 100 ft.-lb.

### Installation Sequence



- Holes in metal fixtures to be mounted should match the diameter specified in the table below. Use a Titen HD screw anchor one time only — installing the anchor multiple times may result in excessive thread wear and reduce load capacity.
- Do not use impact wrenches to install into hollow CMU.
- Caution:** Oversized holes in base material will reduce or eliminate the mechanical interlock of the threads with the base material and reduce the anchor's load capacity.

1. 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.
2. Insert the anchor through the fixture and into the hole.
3. Tighten the anchor into the base material until the countersunk head contacts the fixture.

### Additional Installation Information for Structural Steel

Titen HD Diameter (in.)	Bit Size	Recommended Steel Fixture Hole Size (in.)	Minimum Hole Depth Overdrill (in.)
1/4	T30	3/8 – 7/16	1/8
3/8	T50	1/2 – 9/16	1/4

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



Application in hollow metal door frame.

For additional load information, see [strongtie.com](http://strongtie.com).