

Total Pages: 6

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Products

Anchoring Systems

Stainless-Steel Titen HD® Heavy-Duty Screw Anchor ☐ ☐ ☐

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Anchoring Systems

Stainless-Steel Titen HD® Heavy-Duty Screw Anchor.....3

Product Overview.....3

Stainless-Steel Titen HD® Heavy-Duty Screw Anchor



Drill it. Drive it. Forget it.

The Titen HD stainless-steel screw anchor for concrete and masonry is ideal for when the job calls for fast and efficient installation in multiple types of environments. The Titen HD stainless steel is a state-of-the-art anchor solution that combines the long-lasting corrosion resistance of Type 300 Series stainless steel with the undercutting ability of heat-treated carbon-steel cutting threads.

Innovative — The serrated carbon-steel threads on the tip of the stainless-steel Titen HD are vital because they undercut the concrete as the anchor is driven into the hole, making way for the rest of the threads to interlock with the concrete. In order for these threads to be durable enough to cut into the concrete, they are formed from carbon steel that is then hardened and brazed onto the tip of the anchor.

Corrosion Resistant — For dry, interior applications, carbon-steel corrosion is not a risk, but in any kind of exterior, coastal or chemical environment the anchor would be susceptible to corrosion. With the introduction of the THDSS, there is finally a state-of-the-art anchor solution that combines the corrosion resistance of Type 300 Series stainless steel with the undercutting ability of sacrificial heat-treated carbon-steel cutting threads.

Type 300 Series stainless-steel screw anchors have different corrosion-resistant properties for different environments. When matched to the appropriate environment and application, anchors made from Type 300 Series stainless steel will resist the effects of corrosion and maintain their strength and integrity.

Type 316 is the optimal choice for applications in corrosive or extreme environments such as salt water, or when chemical or corrosive solutions are present. Type 304 is a cost-effective solution for less extreme applications where the environment may be wet, moist or damp.

Key Features

- Ideal for exterior or corrosive environments
- Installs with an impact wrench or by hand tool
- Tested in accordance with ACI355.2, AC193 and AC106

Material

- Type 316 and Type 304 stainless steel.

Installation

1. Drill a hole in the base material using a carbide drill bit (complying with ANSI B212.15) with the same diameter as the nominal diameter of the anchor to be installed. Drill the hole to the specified 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 hex-washer head contacts the fixture.

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

Stainless-Steel Titen HD® Heavy-Duty Screw Anchor (Continued)

SIMPSON

Strong-Tie

Product Information Table

Model No.	Coating/Material	Size (in.)	Drill Bit Dia. (in.)	Wrench Size (in.)	Recommended Fixture Hole Size (in.)	Box Qty.	Carton Qty.
THD37300H4SS	Type 304 Stainless Steel	3/8 x 3	3/8	9/16	1/2 to 9/16	50	200
THD37300H6SS	Type 316 Stainless Steel	3/8 x 3	3/8	9/16	1/2 to 9/16	50	200
THD37400H4SS	Type 304 Stainless Steel	3/8 x 4	3/8	9/16	1/2 to 9/16	50	200
THD37400H6SS	Type 316 Stainless Steel	3/8 x 4	3/8	9/16	1/2 to 9/16	50	200
THD37500H4SS	Type 304 Stainless Steel	3/8 x 5	3/8	9/16	1/2 to 9/16	50	100
THD37500H6SS	Type 316 Stainless Steel	3/8 x 5	3/8	9/16	1/2 to 9/16	50	100
THD37600H4SS	Type 304 Stainless Steel	3/8 x 6	3/8	9/16	1/2 to 9/16	50	100
THD37600H6SS	Type 316 Stainless Steel	3/8 x 6	3/8	9/16	1/2 to 9/16	50	100
THD50300H4SS	Type 304 Stainless Steel	1/2 x 3	1/2	3/4	5/8 to 11/16	25	100
THD50300H6SS	Type 316 Stainless Steel	1/2 x 3	1/2	3/4	5/8 to 11/16	25	100
THD50400H4SS	Type 304 Stainless Steel	1/2 x 4	1/2	3/4	5/8 to 11/16	20	80
THD50400H6SS	Type 316 Stainless Steel	1/2 x 4	1/2	3/4	5/8 to 11/16	20	80
THD50500H4SS	Type 304 Stainless Steel	1/2 x 5	1/2	3/4	5/8 to 11/16	20	80
THD50500H6SS	Type 316 Stainless Steel	1/2 x 5	1/2	3/4	5/8 to 11/16	20	80
THD50600H4SS	Type 304 Stainless Steel	1/2 x 6	1/2	3/4	5/8 to 11/16	20	80
THD50600H6SS	Type 316 Stainless Steel	1/2 x 6	1/2	3/4	5/8 to 11/16	20	80
THD50612H4SS	Type 304 Stainless Steel	1/2 x 6 1/2	1/2	3/4	5/8 to 11/16	20	40
THD50612H6SS	Type 316 Stainless Steel	1/2 x 6 1/2	1/2	3/4	5/8 to 11/16	20	40
THD50800H4SS	Type 304 Stainless Steel	1/2 x 8	1/2	3/4	5/8 to 11/16	20	40
THD50800H6SS	Type 316 Stainless Steel	1/2 x 8	1/2	3/4	5/8 to 11/16	20	40
THD75400H4SS	Type 304 Stainless Steel	3/4 x 4	3/4	1 1/8	7/8 to 15/16	10	40
THD75400H6SS	Type 316 Stainless Steel	3/4 x 4	3/4	1 1/8	7/8 to 15/16	10	40
THD75500H4SS	Type 304 Stainless Steel	3/4 x 5	3/4	1 1/8	7/8 to 15/16	5	20
THD75500H6SS	Type 316 Stainless Steel	3/4 x 5	3/4	1 1/8	7/8 to 15/16	5	20

Product Submittal

Stainless-Steel Titen HD® Heavy-Duty Screw Anchor (Continued)

SIMPSON

Strong-Tie

Model No.	Coating/Material	Size (in.)	Drill Bit Dia. (in.)	Wrench Size (in.)	Recommended Fixture Hole Size (in.)	Box Qty.	Carton Qty.
THD75600H4SS	Type 304 Stainless Steel	3/4 x 6	3/4	1 1/8	7/8 to 15/16	5	20
THD75600H6SS	Type 316 Stainless Steel	3/4 x 6	3/4	1 1/8	7/8 to 15/16	5	20
THD75700H4SS	Type 304 Stainless Steel	3/4 x 7	3/4	1 1/8	7/8 to 15/16	5	10
THD75700H6SS	Type 316 Stainless Steel	3/4 x 7	3/4	1 1/8	7/8 to 15/16	5	10
THD75812H4SS	Type 304 Stainless Steel	3/4 x 8 1/2	3/4	1 1/8	7/8 to 15/16	5	10
THD75812H6SS	Type 316 Stainless Steel	3/4 x 8 1/2	3/4	1 1/8	7/8 to 15/16	5	10
THDB62400H4SS	Type 304 Stainless Steel	5/8 x 4	5/8	15/16	3/4 to 13/16	10	40
THDB62400H6SS	Type 316 Stainless Steel	5/8 x 4	5/8	15/16	3/4 to 13/16	10	40
THDB62500H4SS	Type 304 Stainless Steel	5/8 x 5	5/8	15/16	3/4 to 13/16	10	40
THDB62500H6SS	Type 316 Stainless Steel	5/8 x 5	5/8	15/16	3/4 to 13/16	10	40
THDB62600H4SS	Type 304 Stainless Steel	5/8 x 6	5/8	15/16	3/4 to 13/16	10	40
THDB62600H6SS	Type 316 Stainless Steel	5/8 x 6	5/8	15/16	3/4 to 13/16	10	40
THDB62612H4SS	Type 304 Stainless Steel	5/8 x 6 1/2	5/8	15/16	3/4 to 13/16	10	40
THDB62612H6SS	Type 316 Stainless Steel	5/8 x 6 1/2	5/8	15/16	3/4 to 13/16	10	40
THDB62800H4SS	Type 304 Stainless Steel	5/8 x 8	5/8	15/16	3/4 to 13/16	10	20
THDB62800H6SS	Type 316 Stainless Steel	5/8 x 8	5/8	15/16	3/4 to 13/16	10	20
THDC25200H6SS	Type 316 Stainless Steel	1/4 x 2	1/4	3/8	3/8 to 7/16	1	5
THDC25238H6SS	Type 316 Stainless Steel	1/4 x 2 3/8	1/4	3/8	3/8 to 7/16	1	5
THDC25300H6SS	Type 316 Stainless Steel	1/4 x 3	1/4	3/8	3/8 to 7/16	1	5
THDC25400H6SS	Type 316 Stainless Steel	1/4 x 4	1/4	3/8	3/8 to 7/16	1	5

1. THDC models THDC25200H6SS, THDC25238H6SS, THDC25300H6SS and THDC25400H6SS contain 50 anchors per 1 box. Carton quantity contains 5 boxes of 50, for a total of 250 anchors per carton.
2. Model THDC25200H6SS does not meet minimum embedment in code report.
3. Length of anchor is measured from underside of head to end of anchor.