

New Longer Titen HD® Anchors

can be used with Simpson Strong-Tie® Holdowns!



New longer 1/2" diameter Titen HD anchors achieve sufficient embedment depth to yield tension loads equal to certain Simpson Strong-Tie holdowns. Now instead of using cast-in-place bolts or adhesive anchors, the Titen HD anchor can be used as a time saving alternative.

THE TITEN HD ANCHOR IS IDEAL FOR HOLDOWNS:

- High load values: Threads along the anchor undercut the concrete as it is driven into the hole resulting in a mechanical interlock that efficiently transfers load.
- Seismic and Vibration Resistant: The Titen HD anchor has been tested and shown to resist seismic and vibratory loads.

THE TITEN HD ANCHOR CAN SAVE INSTALLATION TIME COMPARED TO OTHER ANCHORING METHODS

- Eliminates the need for hanging bolts on the forms before the pour and reduces finishing time.
- Precise placement of the anchor after the concrete has hardened reduces the chance for placement mistakes.
- Less installation time required than for adhesive anchor installations.



800-999-5099
www.simpsonanchors.com

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TITEN HD® Anchor for use with Holdowns



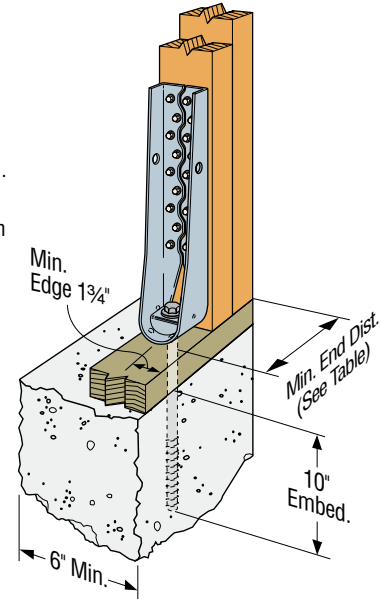
Holdown development table for 1/2-inch diameter Titen HD anchor (10-inch embedment depth into 6-inch wide 2,500 psi normal weight concrete stemwall at 1 3/4" edge distance)

Holdown Model No.	1/2" diameter Titen HD anchor will develop strength of holdown by calculation	
	DFL/SP	SPF/HF
	Min. End Distance	Min. End Distance
	4 3/8 in.	4 3/8 in.
HDU2	✓	✓
HDU4	✓	✓
HDU5	*	✓
HD2A	✓	✓
HD5A	✓	✓
PHD2	✓	✓
PHD5	✓	✓
HTT16	✓	✓
HTT22	*	*

Table Symbol Key:

- ✓ Titen HD anchor has allowable loads greater than the holdown (for this comparison, allowable loads for the Titen HD anchor and holdowns have been increased 33 1/3% for short term loading due to wind or seismic forces).
- * Holdown capacity shall be limited to 4,760 lbs. If end distance is increased to at least 8", holdown capacity shall be limited to 5,140 lbs.

1. The minimum concrete thickness is 12 inches.
2. Some jurisdictions may require special inspection.
3. For additional information, refer to current *Anchoring and Fastening Systems for Concrete and Masonry* catalog.



Deep Embedment Titen HD Anchor Product Data

Size (inch)	Model No.	Drill Bit Dia. (inch)	Wrench Size (inch)	Quantity	
				Box	Carton
1/2 x 12	THD501200H	1/2	3/4	20	40
1/2 x 13	THD501300H				
1/2 x 14	THD501400H				
1/2 x 15	THD501500H				

1. Anchors are zinc plated meeting ASTM B633, SC1

Tension Loads in Normal Weight Concrete Stemwall

Size in. (mm)	Drill Bit Dia. in.	Min. Embed Depth in. (mm)	Min. Stemwall Width in. (mm)	Min. Edge Dist. in. (mm)	Min. End Dist. in. (mm)	Tension Load			
						f'c ≥ 2500 psi (17.2 MPa) Concrete		f'c ≥ 4500 psi (31.0 MPa) Concrete	
						Ultimate lbs. (kN)	Allow. lbs. (kN)	Ultimate lbs. (kN)	Allow. lbs. (kN)
1/2 (12.7)	1/2	10 (254)	6 (152)	1 3/4 (44)	8 (203)	3,855 (17.1)	20,300 (90.3)	5,075 (22.6)	
					4 3/8 (111)	3,570 (15.9)	19,040 (84.7)	4,760 (21.2)	

1. The allowable loads are based on a factor of safety of 4.0.
2. Allowable loads may be increased 33 1/3% for short term loading due to wind or seismic forces where permitted by code.
3. The minimum anchor spacing is 15 inches.
4. The minimum concrete thickness is 12 inches.
5. Allowable loads may be interpolated for compressive strengths between 2,500 and 4,500 psi.
6. Some jurisdictions may require special inspection to achieve these allowable loads.

For complete technical information refer to the *Anchoring and Fastening Systems for Concrete and Masonry* catalog or visit www.simpsonanchors.com.

This flier is effective until June 30, 2010 and reflects information available as of April 1, 2008. This information is updated periodically and should not be relied upon after June 30, 2010; contact Simpson Strong-Tie for limited warranty and current product information.



IN THE SPECS - ON THE JOB - AT YOUR SERVICE™

Simpson Strong-Tie offers a full line of anchors, adhesives, P.A.T. and drill bits for all of your anchoring and fastening applications. Visit our website or request our full line catalog for complete information.

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