



SPIKE® Drive Anchor

The Spike® is a one-piece tamper proof, vibration resistant anchor for use in concrete, block, brick or stone. Several head styles and anchor materials are available.

The Spike® anchor is formed with an "s" shaped configuration at the working end of the anchor to create an expansion mechanism. Since the anchor is pre expanded, there is no secondary tightening operation required which greatly reduces the overall cost of an anchor installation.

Sizes



Perma-Seal™ Coated Carbon Steel Spike®

Anchor Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
1/4" x 1-1/4"	1/4"	7/8"	500	500
1/4" x 1-1/2"	1/4"	7/8"	500	500
1/4" x 2"	1/4"	1-1/4"	500	500
1/4" x 2-1/2"	1/4"	1-1/4"	500	500
1/4" x 3"	1/4"	1-1/4"	500	500
1/4" x 3-1/2"	1/4"	1-1/4"	500	500
1/4" x 4"	1/4"	1-1/4"	500	500
1/4" x 4-1/2"	1/4"	1-1/4"	500	500
1/4" x 5"	1/4"	1-1/4"	500	500
1/4" x 5-1/2"	1/4"	1-1/4"	500	500
1/4" x 6"	1/4"	1-1/4"	250	250
1/4" x 6-1/2"	1/4"	1-1/4"	250	250
1/4" x 7"	1/4"	1-1/4"	250	250
1/4" x 7-1/2"	1/4"	1-1/4"	250	250
1/4" x 8"	1/4"	1-1/4"	250	250
1/4" x 9"	1/4"	1-1/4"	250	250
1/4" x 10"	1/4"	1-1/4"	250	250
1/4" x 11"	1/4"	1-1/4"	100	100
1/4" x 12"	1/4"	1-1/4"	100	100
1/4" x 13"	1/4"	1-1/4"	100	100
1/4" x 14"	1/4"	1-1/4"	100	100



Mushroom Head Grade 8.2 Carbon Steel Spike®

Anchor Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
1/4" x 1"	1/4"	7/8"	100	1000
1/4" x 1-1/4"	1/4"	1"	100	1000
1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
1/4" x 2"	1/4"	1-1/4"	100	1000
1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
1/4" x 3"	1/4"	1-1/4"	100	1000
1/4" x 3-1/2"	1/4"	1-1/4"	100	1000
1/4" x 4"	1/4"	1-1/4"	100	500
3/8" x 2"	3/8"	1-3/4"	25	250
3/8" x 2-1/2"	3/8"	1-3/4"	25	250
3/8" x 3"	3/8"	1-3/4"	25	250
3/8" x 3-1/2"	3/8"	1-3/4"	25	250
3/8" x 4"	3/8"	1-3/4"	25	250
3/8" x 5"	3/8"	1-3/4"	25	250
3/8" x 6"	3/8"	1-3/4"	25	250
1/2" x 2-3/4"	1/2"	2-1/2"	50	200
1/2" x 3-1/2"	1/2"	2-1/2"	50	150
1/2" x 4"	1/2"	2-1/2"	25	150
1/2" x 5"	1/2"	2-1/2"	25	150
1/2" x 6-1/2"	1/2"	2-1/2"	25	150

The published length is measured from below the head to the end of the anchor.



Flat Head Grade 8.2 Carbon Steel Spike®

Anchor Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
1/4" x 2"	1/4"	1-1/4"	100	1000
1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
1/4" x 3"	1/4"	1-1/4"	100	1000
1/4" x 3-1/2"	1/4"	1-1/4"	100	1000
1/4" x 4"	1/4"	1-1/4"	100	500

The published length is the overall length of the anchor.



Mushroom Head Type 316 Stainless Steel Spike®

Anchor Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
1/4" x 1"	1/4"	7/8"	100	1000
1/4" x 1-1/4"	1/4"	1"	100	1000
1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
1/4" x 2"	1/4"	1-1/4"	100	1000
1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
1/4" x 3"	1/4"	1-1/4"	100	1000
1/4" x 3-1/2"	1/4"	1-1/4"	100	1000
1/4" x 4"	1/4"	1-1/4"	100	500
3/8" x 2"	3/8"	1-3/4"	25	250
3/8" x 2-1/2"	3/8"	1-3/4"	25	250
3/8" x 3"	3/8"	1-3/4"	25	250
1/2" x 3-1/2"	1/2"	2-1/2"	50	200
1/2" x 4"	1/2"	2-1/2"	25	150
**1/2" x 6-1/2"	1/2"	2-1/2"	25	150

Published length is measured from below the head to the end of the anchor.

*Supplied with EPDM Sealing Washer. **Discontinued item once stock is exhausted.



SPIKE[®] Drive Anchor

Performance Data

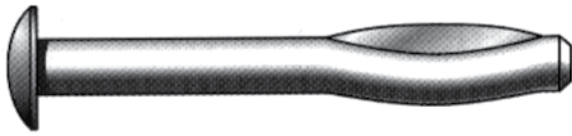
The following ultimate load capacities are based on tests conducted according to ASTM Standards E 488.

Ultimate Tension and Shear Load Capacities for Carbon Steel Spike[®]

	Drill Dia.	Embed. Depth	3,000 PSI Concrete	4,000 PSI Concrete	5,000 PSI Concrete	Concrete Block
Tension Load (LBS)	1/4 "	7/8"	820	945	1,010	440
	1/4 "	1"	975	1,135	1,185	670
	1/4 "	1 1/4"	1,100	1,550	1,700	800
	3/8"	1 3/4"	2,530	3,140	3,435	N/A
	1/2"	2 1/2"	5,460	6,030	6,470	N/A
Shear Load (LBS)	1/4 "	7/8"	2,040	2,230	2,360	1,650
	1/4 "	1"	2,310	2,460	2,640	1,840
	1/4 "	1 1/4"	2,500	2,750	3,200	2,100
	3/8"	1 3/4"	6,310	7,080	7,150	N/A
	1/2"	2 1/2"	12,540	15,300	16,100	N/A

Ultimate Tension and Shear Load Capacities for Stainless Steel Spike[®]

	Drill Dia.	Embed. Depth	3,000 PSI Concrete	4,000 PSI Concrete	5,000 PSI Concrete	Concrete Block
Tension Load (LBS)	1/4 "	7/8"	790	880	980	435
	1/4 "	1"	970	1,045	1,125	645
	1/4 "	1 1/4"	1,080	1,465	1,660	770
	3/8"	1 3/4"	1,990	2,420	2,570	N/A
	1/2"	2 1/2"	4,870	5,470	5,630	N/A
Shear Load (LBS)	1/4 "	7/8"	1,980	2,140	2,270	1,350
	1/4 "	1"	2,290	2,350	2,530	1,620
	1/4 "	1 1/4"	2,430	2,610	2,840	1,890
	3/8"	1 3/4"	5,610	6,235	6,500	N/A
	1/2"	2 1/2"	7,730	7,880	8,210	N/A



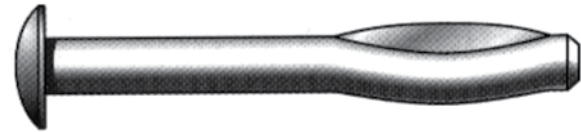
**Drive®
Split Drive Type Anchor**

The Drive® is a one piece, tamper-proof, pre-expanded anchor available in carbon steel for use in concrete and steel. Tie-Wire® anchors are used for suspended ceiling applications. The flat head (counter-sunk) style is particularly suited for wood-to-concrete anchoring. The round head style is for all other applications requiring fast, permanent installations.

Base Material: Concrete, Stone

Size Range: 3/16" x 1" to 1/2" x 3"

Anchor Material: Carbon Steel



Round Head Drive®

Round Head Drive®

Size	Drill Dia.	Min. Depth	Std. Box	Std. Ctn.
1/4" x 1-1/4"	1/4"	1-1/8"	100	1000
1/4" x 1-1/2"	1/4"	1-1/8"	100	1000
1/4" x 2"	1/4"	1-1/8"	100	1000
1/4" x 2-1/2"	1/4"	1-1/8"	100	1000
3/8" x 2"	3/8"	1-7/8"	25	250
3/8" x 2-1/2"	3/8"	1-7/8"	25	250
3/8" x 3-1/2"	3/8"	1-7/8"	25	250
1/2" x 3"	1/2"	2-5/8"	25	125



Flat Head Drive®

Flat Head Drive®

Size	Drill Dia.	Min. Depth	Std. Box	Std. Ctn.
1/4" x 2"	1/4"	1-1/8"	100	1000
1/4" x 2-1/2"	1/4"	1-1/8"	100	1000
1/4" x 2-1/2"	1/4"	1-1/8"	100	1000
1/4" x 2-1/2"	1/4"	1-1/8"	100	1000
1/4" x 2-1/2"	1/4"	1-1/8"	100	1000
1/4" x 2-1/2"	1/4"	1-1/8"	100	500



Tie-Wire Drive®

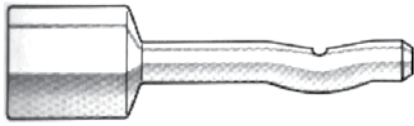
Tie-WireDrive® (13/64" Tie-Wire Hole)

Size	Drill Dia.	Min. Depth	Std. Box	Std. Ctn.
1/4" x 1-3/4"	1/4"	1-1/8"	500	500
1/4" x 1-3/4"	1/4"	1-1/8"	100	500
Tie-Wire Setting Tool			1	1

The following ultimate load capacities are based on tests conducted according to ASTM Standards E 488.

Performance Data

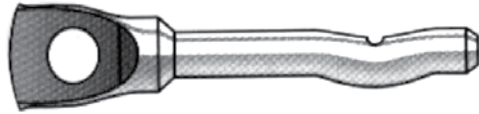
Anchor Size	Embed. Depth	2,000 PSI Concrete		4,000 PSI Concrete		6,000 PSI Concrete	
		Tension (lbs)	Shear (lbs.)	Tension (lbs)	Shear (lbs.)	Tension (lbs)	Shear (lbs.)
1/4 "	1 1/8"	1,650	1,850	2,200	2,320	2,200	2,320
3/8"	1 7/8"	2,840	6,200	5,300	7,810	5,300	7,810
1/2"	2 5/8"	3,200	8,830	6,200	11,340	6,200	11,340



Pipe Spike[®]

Rod Hanging Pipe Spike[®] Grade 8.2 Carbon Steel

Head Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
1/4"	3/16"	1-1/4"	100	1000
3/8"	1/4"	1-3/4"	50	500



Tie Wire Spike[®]

Suspended Ceilings Tie-Wire Spike[®] Grade 8.2 Carbon Steel

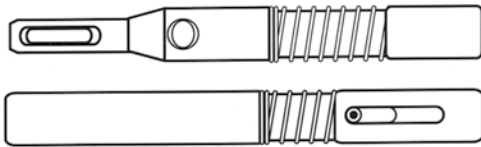
Size	Drill Dia.	Min. Embed.	Tie-Wire Hole Size	Std. Box	Std. Ctn.
1/4"	1/4"	1-3/4"	9/32"	100	500



Forming Spike[®]

Concrete Forming Spike[®] Grade 8.2 Carbon Steel

Anchor Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
3/16" x 1-1/2"	3/16"	1-1/4"	100	1000
3/16" x 2"	3/16"	1-1/4"	100	1000
3/16" x 1-1/2"	3/16"	1-1/4"	100	1000
3/16" x 1-1/2"	1/4"	1-1/4"	100	1000

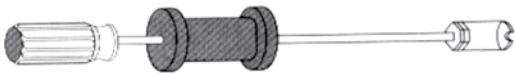


Spike[®] Installation Tools

While the Spike[®] anchor can easily be installed using a hammer, a specially designed series of drivers and manual tools provide a fast, easy to use method for installing Spike[®] anchors into concrete and masonry materials. The tools allow Spike[®] anchors to be installed in confined areas and prevent damage to the fixture from stray hammer blows.

Spike[®] Installation Tools

Tool Description	Guide I.D.
Spike [®] Driver 1000	1/2"
Spike [®] Driver 2000	1/2"
Spike [®] Driver 3000	9/16"
Spike [®] Driver 6000	1"



Spike[®] Puller

For removing 3/16" or 1/4" Spike[®] Anchors

Spike[®] Puller For Removing

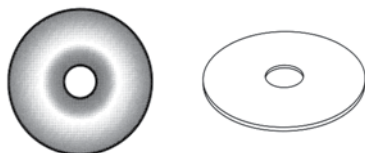
Tool Description	Slot Width
Spike [®] Puller	1/4"



Pipe Spike[®] Tool

Pipe Spike[®] Tool

Tool Description	Tip I.D.
Pipe Spike [®] Setting Tool	5/16"



Washers

Stainless Steel with EPDM Sealing washers and Plastic Washers are typically used with 1/4" diameter anchors for roof flashing, termination bar and dissimilar metal applications.

Sealing Washer Type 304 Stainless Steel With EPDM Seal

Size	Std. Box	Std. Ctn.
1/4" (ID) x 1-1/8" (OD)	100	1000

Plastic Washer

Size	Std. Box	Std. Ctn.
1/4" (ID) x 1-1/8" (OD) Poly	100	5000