

# Tapcon +

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## The Original Concrete Screw Anchor

### Approved for Cracked, Uncracked, and Seismic Conditions

Tapcon+ outperforms traditional wedge anchor products, providing greater load capacity while reducing installation time by up to 50%, offering significant cost-in-place savings on the job site.

Since patenting the original screw anchor for concrete in 1976, Tapcon® products have continued to offer innovative solutions in concrete anchoring. Now, Tapcon+ is available with International Building Code (IBC) compliance and other third party listings for use in cracked concrete and seismic applications.

#### In the Engineering Office

- Outperforms wedge anchors in tension, shear, and anchor spacing
- Approved for concrete in cracked, uncracked, and seismic conditions
- Simplicity of installation improves “build-ability” on the job site
- Blue Climaseal® for superior corrosion resistance

#### On the Job

- Installs faster and easier than wedge anchors – reducing total installed cost and delivering projects faster
- Removable for temporary fixing
- Installs without hammering and precision torque wrench
- One fastening solution for multiple applications and materials
- Does not require onsite inspection

#### Available Sizes – Tapcon+ and Accessories

Anchor Diameter	Length (Under Head)	Drill Diameter	Base Plate Hole Dia.	Quantity (Ctn/Box)	Part No.
1/4"	2-1/4"	1/4"* Tapcon+ or ANSI Bit	3/8"	800 / 100	3511407
	3"			800 / 100	3507407
3/8"	3"	3/8" ANSI	1/2"	400 / 50	3508407
	4"			400 / 50	3509407
1/2"	6"	1/2" ANSI	5/8"	160 / 20	3510407

\*Note - 1/4" diameter anchors require tight tolerance drill bit to ensure Category 1 performance.  
Use 1/4-7" Tapcon+ SDS drill bit, Part No. 3512909

#### Applications



City of Los Angeles (1/4" & 3/8" diameters) and Florida Building Code Compliant

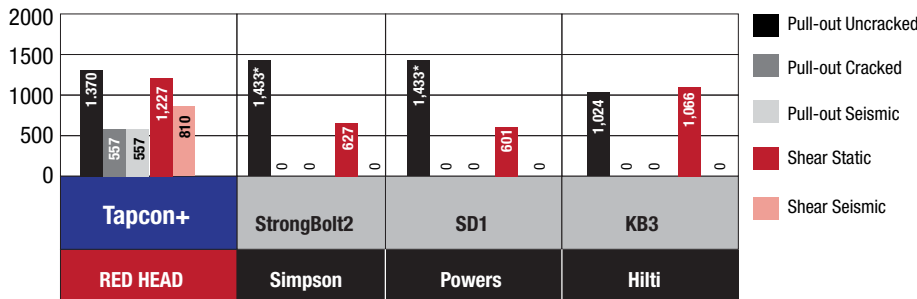
## Product Characteristic

Nominal Diameter	1/4"		3/8"		1/2"
Head Style	Hex Head		Hex Head		Hex Head
Baseplate Hole Diameter	3/8"		1/2"		5/8"
Length (in)	2-1/4	3	3	4	6
Part No.	3511407	3507407	3508407	3509407	3510407
Coating	Blue Climaseal*		Blue Climaseal*		Blue Climaseal*
Point	Bull Nose		Bull Nose		Bull Nose
ICC-ES Report No	ESR-3699		ESR-3699		ESR-3699
Cracked Concrete	Approved		Approved		Approved
Seismic	Approved		Approved		Approved
City of Los Angeles (COLA)	Approved - COLA 25975		Approved - COLA 25975		N/A
Florida Building Code (FBC)	Approved - FL 17072		Approved - FL 17072		Approved - FL 17072

See Appendix D for Tapcon+ Strength Design Performance Values

### Performance vs. Wedge Anchor 1/4"

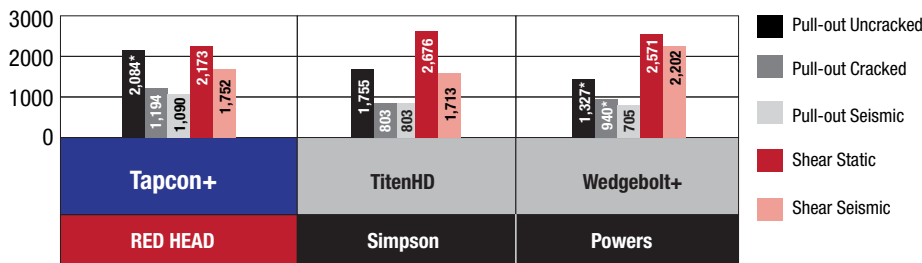
- Cracked concrete and seismic performance at 1/4" diameter
- Performance equals wedge anchor performance in uncracked concrete applications



Notes: \* Concrete capacity controls failure 2,500 PSI Concrete

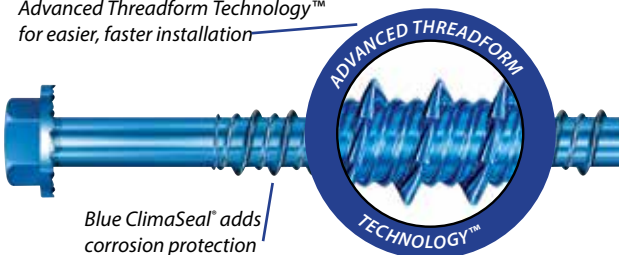
### Performance vs. Competitive Screw Anchor 3/8"

- Superior pull out compared to Simpson TitenHD™ and Powers Wedgebolt+™ (uncracked, cracked, and seismic)



Notes: \* Concrete capacity controls failure 2,500 PSI Concrete

Advanced Threadform Technology™ for easier, faster installation



Induction hardened tip cuts into harder concrete, increases pullout.

Blue Climaseal® adds corrosion protection

Consult ICC-ESR 3699 for a full technical report. Available at [www.itwredhead.com](http://www.itwredhead.com)

## Installation Instructions



### Step 1

Drill a hole that is at least a 1/4" deeper than the anchor embedment.

#### Using

Variable Speed Concrete Hammer Drill & Carbide Drill Bit

1/4 x 7" Tapcon SDS Drill Bit (3512909) or  
1/4" ANSI Drill Bit or  
3/8" ANSI Drill Bit or  
1/2" ANSI Drill Bit

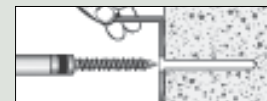


### Step 2

Using pressurized air or a vacuum, remove the drilling debris from the hole.

#### Using

Air Compressor or  
Standard Vacuum Cleaner



### Step 3

Drive Tapcon+ screw anchor through fixture (bracket, or attachment plate), until fully seated.

#### Using

Six Point Impact Socket  
3/8" Socket for 1/4" Anchors  
9/16" Socket for 3/8" Anchors  
3/4" Socket for 1/2" Anchors

#### Impact Wrench

115 Max ft-lbf for 1/4" Anchors  
200 Max ft-lbf for 3/8" Anchors  
345 Max ft-lbf for 1/2" Anchors

