

## Titen® Concrete and Masonry Screw

Titen® screws are hardened screws for attaching all types of components to concrete and masonry. These fasteners are commonly used in applications such as attaching electrical boxes, light fixtures or window frames into concrete or masonry base materials.

### Features

- Available in 5 mm and 6.5 mm diameter sizes
- Available in hex and Phillips flat-head designs
- Suitable for concrete, brick, grout-filled CMU and hollow-block applications
- Drill bit included with each box

### Applications

- Electrical boxes
- Light fixtures
- Window frames
- Timber strapping

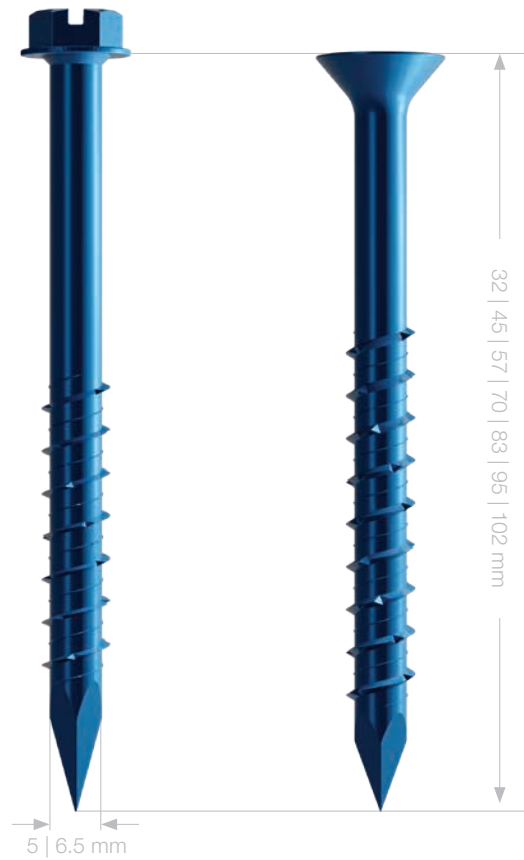
### Base Material

- Cracked and Uncracked Concrete
- Grout-filled and Hollow Concrete Block
- Solid and Hollow Brick

### Finish

- Carbon Steel, Zinc-plated with a baked-on ceramic coating

Contact *Simpson Strong-Tie* for load values



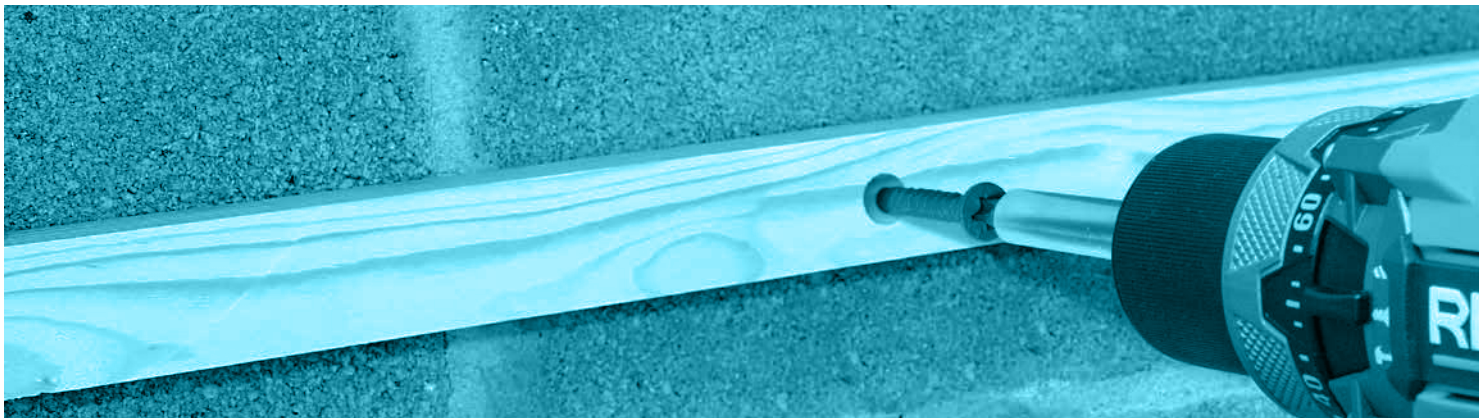
Titen® – Phillips Hex head

Titen® – Phillips Flat-head



Available in either a hex head or countersink head.

## Titen® Installation

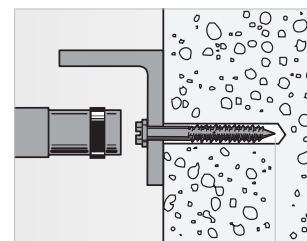
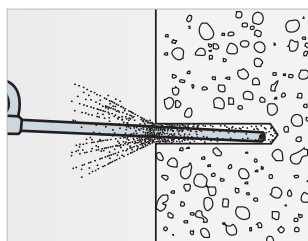
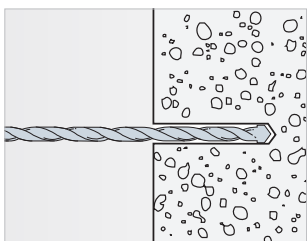


Holes in steel fixtures to be mounted should match the diameter range specified in the table on page 87.

**CAUTION:** Industry studies show that hardened fasteners can experience performance problems in wet or corrosive environments. Steps must be taken to prevent inadvertent sustained loads above the listed allowable loads. Overtightening and bending moments can initiate cracks detrimental to the hardened screw's performance. Use recommended driver bit size & be careful not to overtighten.

Oversized holes in the base material will reduce or eliminate the mechanical interlock of the threads with the base material and will reduce the anchor's load capacity.

## Installation Sequence



1. **Drill**  
Drill a hole in the base material using the appropriate diameter carbide drill bit as specified in the table. Drill the hole to the specified embedment depth plus 12 mm to allow the thread tapping dust to settle.
2. **Blow**  
Blow it clean using compressed air. Overhead installations need not be blown clean. Alternatively, drill the hole deep enough to accommodate embedment depth and dust from drilling and tapping.
3. Use recommended driver bit size & be careful not to overtighten the screw.
4. **Install**  
Position fixture, insert screw and tighten using drill and installation tool fitted with a hex socket or Phillips bit.

Preservative-treated timber applications: suitable for use in non-ammonia formulations of CCA, ACQ-C, ACQ-D, CA-B, BX/DOT and zinc borate. Use in dry, interior environments only.

Use caution not to damage coating during installation. The 410 stainless-steel Titen with top coat provides "medium" corrosion protection. Recommendations are based on testing and experience at time of publication and may change. Simpson Strong-Tie cannot provide estimates on service life of screws.

## Titen® Product Availability

Model No.		Size (mm) Diameter (in.)	Bit Diameter <sup>3</sup> (in.)	Total Length (mm) L	Min. Embedment Depth (mm)	Box Qty	Carton Qty			
Phillips Hex head <sup>1</sup>	Phillips Flat-head									
TTN18114H	TTN18114PF	5 $\frac{3}{16}$	$\frac{5}{32}$	32	25	100	1600			
TTN18134H	TTN18134PF			45		100	500			
TTN18214H	TTN18214PF			57		100	500			
TTN18234H	TTN18234PF			70		100	500			
TTN18314H	TTN18314PF			83		100	400			
TTN18334H	TTN18334PF			95		100	400			
TTN18400H	TTN18400PF			102		100	400			
TTN25114H <sup>2</sup>	TTN25114PF			6.5 $\frac{1}{4}$		$\frac{3}{16}$	32	25	100	1600
TTN25134H	TTN25134PF						45		100	500
TTN25214H <sup>2</sup>	TTN25214PF						57		100	500
TTN25234H	TTN25234PF	70	100		500					
TTN25314H	TTN25314PF	83	100		400					
TTN25334H <sup>2</sup>	TTN25334PF	95	100		400					
TTN25400H <sup>2</sup>	TTN25400PF	102	100		400					

1. Drive size  $\frac{1}{4}$ " Hex head
2. Available in Type 410 Stainless Steel, add suffix "SS"
3. One drill bit is included in each box