

Titen® Concrete and Masonry Screw

Blue Titen® Product Data (3/16" diameter)

Size (in.)	Model No. ¹	Drill Bit Diameter (in.)	Quantity	
			Box ²	Carton
3/16 x 1 1/4	TTN18114H	5/32	100	1600
3/16 x 1 3/4	TTN18134H			500
3/16 x 2 1/4	TTN18214H			500
3/16 x 2 3/4	TTN18234H			500
3/16 x 3 1/4	TTN18314H			400
3/16 x 3 3/4	TTN18334H			400
3/16 x 4	TTN18400H			400
3/16 x 1 1/4	TTN18114PF	5/32	100	1600
3/16 x 1 3/4	TTN18134PF			500
3/16 x 2 1/4	TTN18214PF			500
3/16 x 2 3/4	TTN18234PF			500
3/16 x 3 1/4	TTN18314PF			400
3/16 x 3 3/4	TTN18334PF			400
3/16 x 4	TTN18400PF			400

1. H Suffix: Hex-Head, PF Suffix: Phillips Flat-Head.

Blue Titen® Product Data (1/4" diameter)

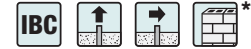
Size (in.)	Model No. ¹	Drill Bit Diameter (in.)	Quantity	
			Box ²	Carton
1/4 x 1 1/4	TTN25114H	3/16	100	1600
1/4 x 1 3/4	TTN25134H			500
1/4 x 2 1/4	TTN25214H			500
1/4 x 2 3/4	TTN25234H			500
1/4 x 3 1/4	TTN25314H			400
1/4 x 3 3/4	TTN25334H			400
1/4 x 4	TTN25400H			400
1/4 x 5	TTN25500H	400		
1/4 x 6	TTN25600H	400		
1/4 x 1 1/4	TTN25114PF	3/16	100	1600
1/4 x 1 3/4	TTN25134PF			500
1/4 x 2 1/4	TTN25214PF			500
1/4 x 2 3/4	TTN25234PF			500
1/4 x 3 1/4	TTN25314PF			400
1/4 x 3 3/4	TTN25334PF			400
1/4 x 4	TTN25400PF			400
1/4 x 5	TTN25500PF	400		
1/4 x 6	TTN25600PF	400		

1. H Suffix: Hex-Head, PF Suffix: Phillips Flat-Head.

White Titen® Product Data (Phillips Flat-Head)

Size (in.)	Model No.	Drill Bit Diameter (in.)	Quantity	
			Box ¹	Carton
3/16 x 1 1/4	TTNW18114PF	5/32	100	1600
3/16 x 1 3/4	TTNW18134PF			500
3/16 x 2 1/4	TTNW18214PF			500
3/16 x 2 3/4	TTNW18234PF			500
3/16 x 3 1/4	TTNW18314PF			400
3/16 x 3 3/4	TTNW18334PF			400
1/4 x 1 1/4	TTNW25114PF			3/16
1/4 x 1 3/4	TTNW25134PF	500		
1/4 x 2 1/4	TTNW25214PF	500		
1/4 x 2 3/4	TTNW25234PF	500		
1/4 x 3 1/4	TTNW25314PF	400		
1/4 x 3 3/4	TTNW25334PF	400		

Titen® Allowable Tension and Shear Loads in Face Shell of Hollow and Grout-Filled CMU



Dia. in. (mm)	Drill Bit Dia. in.	Embed. Depth in. (mm)	Critical Spacing in. (mm)	Critical Edge Dist. in. (mm)	Values for 6" or 8" Lightweight, Medium-Weight or Normal-Weight CMU			
					Tension Load		Shear Load	
					Avg. Ult. lb. (kN)	Allow. lb. (kN)	Avg. Ult. lb. (kN)	Allow. lb. (kN)
3/16 (4.8)	5/32	1 (25.4)	2 1/4 (57.2)	1 1/8 (28.6)	542 (2.4)	110 (0.5)	1,016 (4.5)	205 (0.9)
1/4 (6.4)	3/16	1 (25.4)	3 (76.2)	1 1/2 (38.1)	740 (3.3)	150 (0.7)	1,242 (5.5)	250 (1.1)

1. The tabulated allowable loads are based on a safety factor of 5.0.
2. Maximum anchor embedment is 1 1/2" (38.1 mm).

Titen® Allowable Tension and Shear Loads in Normal-Weight Concrete



Dia. in. (mm)	Drill Bit Dia. in.	Embed. Depth in. (mm)	Critical Spacing in. (mm)	Critical Edge Dist. in. (mm)	Tension Load				Shear Load	
					f'c ≥ 2,000 psi (13.8 MPa) Concrete		f'c ≥ 4,000 psi (27.6 MPa) Concrete		f'c ≥ 2,000 psi (13.8 MPa) Concrete	
					Ultimate lb. (kN)	Allowable lb. (kN)	Ultimate lb. (kN)	Allowable lb. (kN)	Ultimate lb. (kN)	Allowable lb. (kN)
3/16 (4.8)	5/32	1 (25.4)	2 1/4 (57.2)	1 1/8 (28.6)	500 (2.2)	125 (0.6)	640 (2.8)	160 (0.7)	1,020 (4.5)	255 (1.1)
3/16 (4.8)	5/32	1 1/2 (38.1)	2 1/4 (57.2)	1 1/8 (28.6)	1,220 (5.4)	305 (1.4)	1,850 (8.2)	460 (2.0)	1,670 (7.4)	400 (1.8)
1/4 (6.4)	3/16	1 (25.4)	3 (76.2)	1 1/2 (38.1)	580 (2.6)	145 (0.6)	726 (3.2)	180 (0.8)	900 (4.0)	225 (1.0)
1/4 (6.4)	3/16	1 1/2 (38.1)	3 (76.2)	1 1/2 (38.1)	1,460 (6.5)	365 (1.6)	2,006 (8.9)	500 (2.2)	1,600 (7.1)	400 (1.8)

1. Maximum anchor embedment is 1 1/2" (38.1 mm).
2. Concrete must be minimum 1.5 x embedment.

* See page 12 for an explanation of the load table icons.