

Tapcon Anchors

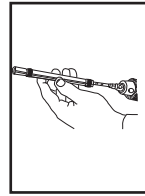


SPECIFIED FOR ANCHORAGE INTO CONCRETE, BRICK OR BLOCK

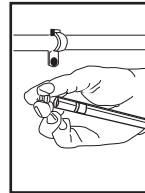
The "original masonry" anchor that cuts its own threads into concrete, brick, or block. Maximum performance is achieved because the Tapcon Anchor, the Condrive Installation Tool, and the carbide-tipped Tapcon Drill Bits are designed to work as a system. It is essential to use the Condrive tool and the correct drill bit to assure consistent anchor performance.

Now available in 410 stainless steel.

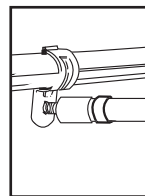
INSTALLATION STEPS



1. With sleeve off and drill bit exposed, drill pilot hole 1/4" deeper than recommended anchor embedment. Snap proper anchor socket onto end of sleeve. Slide drive sleeve over drill bit.



2. Insert head of Tapcon anchor into hex or Phillips socket.



3. Put point of anchor into pre-drilled hole and drive until anchor is fully seated.

APPROVALS/LISTINGS

ICC Evaluation Service, Inc. - # ESR-1671

City of Los Angeles RR25644

Metro-Dade County - #03-0114.03

ITW Buildex

Itasca, IL

Miami Dade County

Product Control Approved

Head Styles

3/16" diameter has a 1/4" slotted hex washer head (HWH)
 1/4" diameter has a 5/16" slotted hex washer head (HWH)



3/16" diameter uses a #2 Phillips flat head (PFH)
 1/4" diameter uses a #3 Phillips flat head (PFH)



Tapcon Anchors

Ultimate Shear and Tension Values (Lbs/kN) in Concrete

ANCHOR DIA. In. (mm)	MIN. DEPTH OF EMBEDMENT In. (mm)	f'c = 2000 PSI (13.8 MPa)		f'c = 3000 PSI (20.7 MPa)		f'c = 4000 PSI (27.6 MPa)		f'c = 5000 PSI (34.5 MPa)	
		TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)
3/16 (4.8)	1 (25.4)	240 (1.1)	740 (3.3)	320 (1.4)	840 (3.7)	400 (1.8)	840 (3.7)	440 (2.0)	860 (3.8)
	1-1/4 (31.8)	440 (2.0)	780 (3.5)	560 (2.5)	840 (3.7)	600 (2.7)	840 (3.7)	640 (2.8)	860 (3.8)
	1-1/2 (38.1)	640 (2.8)	820 (3.6)	840 (3.7)	860 (3.8)	880 (3.9)	880 (3.9)	920 (4.1)	900 (4.0)
	1-3/4 (44.5)	760 (3.4)	920 (4.1)	1,040 (4.6)	1,020 (4.5)	1,120 (5.0)	1,020 (4.5)	1,240 (5.5)	1,020 (4.5)
1/4 (6.4)	1 (25.4)	520 (2.3)	1,120 (5.0)	720 (3.2)	1,460 (6.5)	800 (3.6)	1,560 (6.9)	920 (4.1)	1,660 (7.4)
	1-1/4 (31.8)	840 (3.7)	1,280 (5.7)	1,120 (5.0)	1,600 (7.1)	1,240 (5.5)	1,660 (7.4)	1,400 (6.2)	1,740 (7.7)
	1-1/2 (38.1)	1,120 (5.0)	1,280 (5.7)	1,520 (6.8)	1,620 (7.2)	1,600 (7.1)	1,680 (7.5)	1,680 (7.5)	1,760 (7.8)
	1-3/4 (44.5)	1,320 (5.9)	1,500 (6.7)	1,840 (8.2)	2,140 (9.5)	2,040 (9.1)	2,160 (9.6)	2,240 (10.0)	2,200 (9.8)

Safe working loads for single installation under static loading should not exceed 25% of the ultimate load capacity.

The tabulated values are for anchors installed in a minimum of 12 diameters on center and a minimum edge distance of 10 diameters for 100 percent anchor efficiency.

Space and edge distance may be reduced to six diameters spacing and five diameter edge distance provided values are reduced 50%. Linear interpolation may be used for intermediate spacing and edge margins.

Tapcon Anchors

Ultimate Tension Value (Lbs/kN) in Hollow Block

ANCHOR DIA. In. (mm)	DEPTH OF EMBEDMENT IN SOLID MATERIAL In. (mm)							
	1" (25.4) Lbs. (kN)		1-1/4" (31.8) Lbs. (kN)		1-1/2" (38.1) Lbs. (kN)		1-3/4" (44.5) Lbs. (kN)	
3/16 (4.8)	209	(0.9)	357	(1.6)	468	(2.1)	547	(2.4)
1/4 (6.4)	406	(1.8)	615	(2.7)	851	(3.8)	984	(4.4)

Safe working loads for single installation under static loading should not exceed 25% of the ultimate load capacity.

Tapcon Anchors

Ultimate Shear Strength

ANCHOR DIA. In. (mm)	ANCHOR EMBEDMENT In. (mm)	SHEAR STRENGTH LIGHTWEIGHT HOLLOW BLOCK Lbs. (kN)
3/16 (4.8)	1-1/4 (31.8)	731 (3.3)
1/4 (6.4)	1-1/4 (31.8)	1,058 (4.7)

Safe working loads for single installation under static loading should not exceed 25% of the ultimate load capacity.

Tapcon Stainless Steel Anchors

Ultimate Tension Value (Lbs/kN) in Concrete and Hollow Block

ANCHOR DIA. In. (mm)	DEPTH OF EMBEDMENT IN CONCRETE 3000 PSI (20.7 MPa) In. (mm)						DEPTH OF EMBEDMENT IN HOLLOW BLOCK	
	1" (25.4) Lbs. (kN)		1-1/4" (31.8) Lbs. (kN)		1-1/2" (38.1) Lbs. (kN)		1-3/4" (44.5) Lbs. (kN)	
1/4 (6.4)	1,381	(6.1)	1,618	(7.2)	2,041	(9.1)	2,332	(10.4)
							754	(3.4)

Safe working loads for single installation under static loading should not exceed 25% of the ultimate load capacity.

Tapcon Stainless Steel Anchors

Ultimate Shear Strength

ANCHOR DIA. In. (mm)	ANCHOR EMBEDMENT In. (mm)	SHEAR STRENGTH HARD ROCK CONCRETE 3000 PSI (20.7 MPa) Lbs. (kN)	SHEAR STRENGTH LIGHTWEIGHT HOLLOW BLOCK Lbs. (kN)
1/4 (6.4)	1-1/4 (31.8)	1,622 (7.2)	1,218 (5.4)

Safe working loads for single installation under static loading should not exceed 25% of the ultimate load capacity.

Note: 3/16" Tapcon requires 5/32" bit
 1/4" Tapcon requires 3/16" bit