

Advanced Threatform Technology Easier to install-less torque required!



CORROSION RESISTANCE

Kesternich Results (DIN 40018 2.0L)

30 Cycles - 10% or less rust

Blue Climaseal™

Salt Spray Results (ASTM B117)

720 Hrs - 10% or less rust

DESCRIPTION/SUGGESTED SPECIFICATIONS

Tapcon Anchors —

SPECIFIED FOR ANCHORAGE INTO CONCRETE, BRICK OR BLOCK

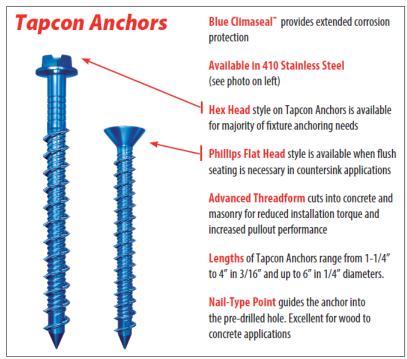


The "original masonry" anchor that cuts its own threads into concrete, brick, or block. Maximum performance is achieved because the Tapcon Anchor, the Condrive Installation Tool, and the carbide-tipped Tapcon Drill Bits are designed to work as a system. It is essential to use the Condrive tool and the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

ADVANTAGES

- Works in all masonry base materials.
- Fast and easy—3 anchors per minute.
- No hole spotting or inserts required.
- Removable.

- Slotted hex and phillips flat head styles.
- Extended corrosion protection— Blue Climaseal*.
- Available in 410 Stainless Steel.



Tapcon® is a registered trademark of Buildex, a divison of Illinois Tool Works, Inc.

Limitations: Not recommend for installation by impact drivers.

410 Stainless Steel

Contact DMI for MSDS information

Sales are done through DMI registered distributor network only. Please contact 855-800-8878 to find a registered distributor or email distributors@directmetalsinc.com



APPLICATIONS



The Tapcon Anchor is especially well suited for window and door frames because it performs well in block, is available in a flat head style, and is fast to install.



Many horizontal or "wall" applications are attached with Tapcon Anchor because it is removable and works well in block and brick.



FEATURES

The picture shows the Condrive 1000 Installation Kit in action. The kit makes for fast and easy change over from drill bit to driver and controls the driving torque to prevent thread stripping and head snapping in hard base materials.

APPROVAL/LISTINGS

Blue Climaseal™

ICC Evaluation Service, Inc. — ESR-1671 ICC Evaluation Service, Inc. — ESR-2202 Miami-Dade County — NOA #12-0816.06 Florida Building Code

410 Stainless Steel

Miami-Dade County — NOA #12-0816.06 Florida Building Code

For the most current approvals/listings visit: www.itw-redhead.com

INSTALLATION STEPS

Read installation instructions before using!



WARNING:

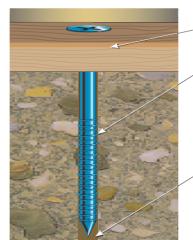
If there are any questions concerning proper installation, applications or appropriate use of this product, please call our Technical Services Department at 1-800-848-5611. Failure to follow these instructions can result in serious personal injury.

- Select proper fastener diameter / head style / length.
 a) Use selection chart to choose proper length.
- Drill Hole use selection chart to determine drill bit length and depth of hole.
 - a) Choose appropriate drill of Tapcon Anchor.
 - b) Drill hole minimum ¼" deeper than Tapcon Anchor to be embedded.

Minimum anchor embedment: 1"

Maximum anchor embedment: 1-3/4"

3. Drive Anchor.



Fixture Thickness—determine the fixture thickness to be anchored

Anchor Embedment—with a minimum recommended embedment of 1", the correct Tapcon anchor choice can be made. Hole depth must be a minimum 1/4" deeper than the anchor embedment to allow for displaced material

Hole Diameter—proper hole diameter is very important to insure consistent performance and maximum pullout strength. 3/16" anchors require 5/32" diameter bits, and 1/4" anchors require 3/16" diameter bits



WARNING:

Failure to wear safety glasses with side shields can result in serious personal injury. Always wear ANSI compliant eye protection (ANSI Z87.1-2003).



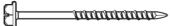
WARNING:

Using the wrong size drill bit will affect performance values and may cause failure.

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)



Limitations: Not recommend for installation by impact drivers.

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PERFORMANCE TABLE

Tapcon[®]

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

ANCHOR	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)	
DIA. In. (mm)		TENSION Lbs. (kN)	SHEAR Lbs. (kN)						
3/16 (4.8)	1 (25.4)	600 (2.7)	720 (3.2)	625 (2.8)	720 (3.2)	650 (2.9)	720 (3.2)	800 (3.6)	860 (3.8)
	1-1/4 (31.8)	845 (3.7)	720 (3.2)	858 (3.8)	720 (3.2)	870 (3.9)	720 (3.2)	1,010 (4.5)	860 (3.8)
	1-1/2 (38.1)	1,090 (4.8)	860 (3.8)	1,090 (4.8)	860 (3.8)	1,090 (4.8)	860 (3.8)	1,220 (5.4)	860 (3.8)
	1-3/4 (44.5)	1,450 (6.5)	870 (3.9)	1,455 (6.5)	870 (3.9)	1,460 (6.5)	990 (4.4)	1,730 (7.7)	990 (4.4)
1/4 (6.4)	1 (25.4)	750 (3.3)	900 (4.0)	775 (3.4)	900 (4.0)	800 (3.6)	1,360 (6.1)	950 (4.2)	1,440 (6.4)
	1-1/4 (31.8)	1,050 (4.7)	900 (4.0)	1,160 (5.2)	900 (4.0)	1,270 (5.6)	1,360 (6.1)	1,515 (6.7)	1,440 (6.4)
	1-1/2 (38.1)	1,380 (6.1)	1,200 (5.3)	1,600 (7.2)	1,200 (5.3)	1,820 (8.1)	1,380 (6.1)	2,170 (9.7)	1,670 (7.4)
	1-3/4 (44.5)	2,020 (9.0)	1,670 (7.4)	2,200 (9.8)	1,670 (7.4)	2,380 (10.6)	1,670 (7.4)	2,770 (12.3)	1,670 (7.4)

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

PERFORMANCE TABLES

Tapcon[®] Anchors

Ultimate Tension and Shear Values (Lbs/kN) in Hollow Block

ANCHOR	ANCHOR	LIGHTWE	GHT BLOCK	MEDIUM WEIGHT BLOCK		
DIA. In. (mm)	EMBEDMENT In. (mm)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	
3/16 (4.8)	1 (25.4)	220 (1.0)	400 (1.8)	340 (1.5)	730 (3.2)	
1/4 (6.4)	1 (25.4)	250 (1.1)	620 (2.8)	500 (2.2)	1,000 (4.4)	

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.

Tapcon Anchors Allowable Edge and Spacing Distances

PARAMETER	ANCHOR DIA. In. (mm)	NORMAL WEIGHT CONCRETE			CON	CONCRETE MASONRY UNITS (CMU)		
		FULL CAPACITY (Critical Distance Inches)	REDUCED CAPACITY (Minimal Distance Inches)	LOAD REDUCTION FACTOR	FULL CAPACITY (Critical Distance Inches)	REDUCED CAPACITY (Minimal Distance Inches)	LOAD REDUCTION FACTOR	
Spacing Between	3/16	3	1-1/2	0.73	3	1-1/2	1.00	
Anchors - Tension	1/4	4	2	0.66	4	2	0.84	
Spacing Between Anchors - Shear	3/16	3	1-1/2	0.83	3	1-1/2	1.00	
	1/4	4	2	0.82	4	2	0.81	
Edge Distance - Tension	3/16	1-7/8	1	0.83	4	2	0.91	
	1/4	2-1/2	1-1/4	0.82	4	2	0.88	
Edge Distance -Shear	3/16	2-1/4	1-1/8	0.70	4	2	0.93	
	1/4	3	1-1/2	0.59	4	2	0.80	

For SI: 1 inch = 25.4 mm

Limitations: Not recommend for installation by impact drivers.

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TAPCON™ MASONRY FASTENERS

TAPCON™, THE ORIGINAL BLUE MASONRY SCREW HEX HEAD

The original masonry anchor that cuts threads into concrete, brick or hollow block. Popular uses include: Securing fixtures to masonry and block walls, or concrete flooring. Made in the U.S.A.

Maximum performance is achieved from the advanced thread form technology when the Tapcon™ Anchor, the Condrive installation tool, and the carbide-tipped Tapcon™ drill bits are used as a system. Available with painted heads.

Fast and easy - 3 anchors per minute. No hole spotting or insert required. Removable, slotted hex head with extended corrosion protection from the Blue Climaseal™ coating. Miami-Dade Approved.





31265	ZIY/DUX	Qty/Ctil	<u>raii#</u>
3/16" x 1-1/4"	100	500	DMIT3139407
3/16" x 1-3/4"	100	500	DMIT3141407
3/16" x 2-1/4"	100	500	DMIT3143407
3/16" x 2-3/4"	100	500	DMIT3145407
3/16" x 3-1/4"	100	500	DMIT3147407
3/16" x 3-3/4"	100	500	DMIT3149407
3/16" x 4"	100	500	DMIT3151407
1/4" x 1-1/4"	100	500	DMIT3153407
1/4" x 1-3/4"	100	500	DMIT3155407
1/4" x 2-1/4"	100	500	DMIT3177407
1/4" x 2-3/4"	100	500	DMIT3159407
1/4" x 3-1/4"	100	500	DMIT3161407
1/4" x 3-3/4"	100	500	DMIT3163407
1/4" x 4"	100	500	DMIT3165407
1/4" x 5"	100	500	DMIT3167407
1/4" x 6"	100	100	DMIT3205407

Oty/Box Oty/Ctn Part#

Part #'s above come with one drill bit per box, also available in bulk packaging.

Made in the U.S.A.

TAPCON™, THE ORIGINAL BLUE MASONRY SCREW PHILLIPS HEAD

The original masonry anchor with a Phillips drive countersink head that cuts threads into concrete, brick or hollow block. Popular uses include: Wood headers and furring strips to masonry, HVAC strapping to masonry, plywood backer boards to masonry, and exterior insulation systems to masonry. Made in the U.S.A.



Sizes (Qty/Box	Qty/Ctn	Part#
3/16" x 1-1/4"	100	500	DMIT3169407
3/16" x 1-3/4"	100	500	DMIT3171407
3/16" x 2-1/4"	100	500	DMIT3173407
3/16" x 2-3/4"	100	500	DMIT3175407
3/16" x 3-1/4"	100	500	DMIT3177407
3/16" x 3-3/4"	100	500	DMIT3194407
3/16" x 4"	100	500	DMIT3181407
1/4" x 1-1/4"	100	500	DMIT3183407
1/4" x 1-3/4"	100	500	DMIT3185407
1/4" x 2-1/4"	100	500	DMIT3187407
1/4" x 2-3/4"	100	500	DMIT3189407
1/4" x 3-1/4"	100	500	DMIT3191407
1/4" x 3-3/4"	100	500	DMIT3193407
1/4" x 4"	100	500	DMIT3195407
1/4" x 5"	100	500	DMIT3197407
1/4" x 6"	100	100	DMIT3203407

Fast and easy - 3 anchors per minute. No hole spotting or insert required. Removable, Phillips flat head with extended corrosion protection from the Blue Climaseal coating. Miami - Dade Approved.

Part #'s above come with one drill bit per box, also available in bulk packaging.

Made in the U.S.A.

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