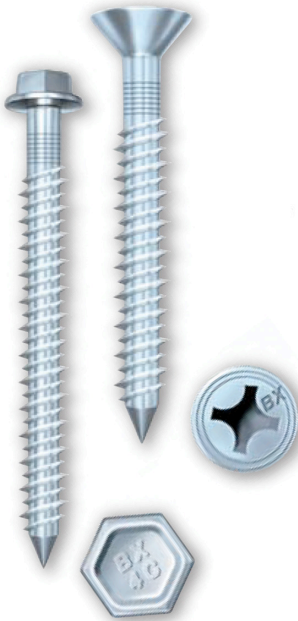


# TAPCON<sup>®</sup> Masonry Anchors

## Tapcon<sup>®</sup>



## DESCRIPTION/ADVANTAGES

### Tapcon 410 SS Masonry Anchors—



Premium masonry anchor that provides the corrosion protection of 410 Stainless Steel and the performance of our original carbon Tapcon.

## ADVANTAGES

- 410 Stainless Steel for added corrosion protection.
- Fast installation ... drill a hole ... drive an anchor.
- Cuts threads into concrete, brick and hollow block.
- Available in 3/16" diameter up to 21-1/4" in length and 1/4" diameter up to 3-1/4" in length.
- Reversible and removable ... can be installed close to an edge.

## SPECIFICATIONS

**Diameter /** 3/16" & 1/4"  
**Thread Form** Original Notched Hi-Lo<sup>®</sup>

**Head Style**



Hex Washer Head  
(HWH)



Philips Flat Head  
(PFH)

**Point Type** Nail

**Finish** Type

ClimaShield™

**Salt Spray Results**  
(ASTM B117)

1600 hours - NO RED DUST!

## Accessories

PART NUMBER	DESCRIPTION
7230S	3/16" x 5" SDS Bit
7005	Condribe 500 Installation Kit
7000	Condribe 1000 Installation Kit



## APPLICATIONS

Brick ties

Exterior attachment to concrete requiring extra corrosion resistance.

## INSTALLATION TOOL GUIDELINES

**Condrive 500®** - Compact high speed installation tool designed for installation of Tapcon hex head and Phillips flat head anchors up to 3-3/4" long.

### GUIDELINES:

**STEP 1:** Place drill adapter into 3/8" or 1/2" chuck of standard hammer drill. Place drill bit in drill adapter and tighten set screw. Drill hole a minimum of 1/4" deeper than Tapcon anchor is to be embedded.

**STEP 2:** Phillips Heads may be installed using either side of sleeve. To install a 1/4 diameter Hex Washer Head Tapcon, use large opening side of sleeve (see sleeve label). To install a 3/16 diameter Hex Washer Head Tapcon, use small opening side of sleeve (see sleeve label). Slide opposite side of sleeve over drill bit and snap onto drill bit adapter. NOTE: If driving Hex Washer Head Tapcon, driver will automatically disengage. If driving Phillips Head Tapcon, care must be taken to ensure anchor is not overdriven.

**STEP 3:** Loosen set screw on side of drill adapter with 1/8" Hex Key. Do not remove completely. Replace old drill bit with new one. Align flat side with set screw and tighten screw. Do not overtighten.

**Condrive 1000®** - A multi-purpose tool designed for installation of Tapcon hex head and Phillips flat head anchors up to 3-3/4" long.

### GUIDELINES:

**STEP 1:** Place correct drill bit into driver adapter and drill hole 1/4" deeper than depth of embedment.

**STEP 2:** Slide Condrive Installation Tool sleeve over drill bit. Snap hex head or Phillips Socket in place.

**STEP 3:** Insert anchor in socket, position fixture to be fastened, begin to drive Tapcon into pre-drilled hole.

**STEP 4:** The anchor is fully set when the nosepiece of the Condrive Tool automatically disengages from the socket and fixture is secured in place.

Buildex Condrive Tools are designed to specifically install Tapcon Anchors and to fit standard hammer drills.

## APPROVALS/LISTINGS

Miami Dade County Product Control Approved

Florida Building Code

## INSTALLATION STEPS

### Read instructions before using (installation)!



#### WARNING:

If there are any questions concerning proper installation, applications or appropriate use of this product, please call our Technical Services Department at 1-800-899-7890. Failure to follow these instructions can result in serious personal injury.

- Select proper fastener – diameter / head style / length**
  - Use selection chart to choose proper length.**
- Drill Hole – use selection chart to determine drill bit length and depth of hole**
  - Choose appropriate drill bit based upon diameter of Tapcon Anchor.**
  - Drill hole minimum 1/4" deeper than Tapcon Anchor to be embedded.**  
Minimum anchor embedment: 1"  
Maximum anchor embedment: 1-3/4"
- Drive Anchor**



#### 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)

# Tapcon 410 Stainless Steel Masonry Anchors

## SELECTION CHART

### Tapcon Anchors

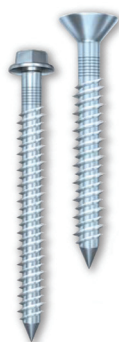


PART NUMBER #2 PFH	DESCRIPTION	FIXTURE THICKNESS	STRAIGHT SHANK DRILL BIT PART NUMBER	DRILL BIT DESCRIPTION	BOX QTY	CASE QTY
3418907	3/16" x 1-3/4"	1/4" - 3/4"	3095910	5/32" x 3-1/2"	100	1000
3419907	3/16" x 2-1/4"	3/4" - 1-1/4"	3096910	5/32" x 4-1/2"	100	1000

Tapcon Anchors must be installed using all Buildex system components (Tapcon Anchors, Condrive Tools and Tapcon Drill Bits) in order to qualify for ITW Buildex system support.

### Tapcon Anchors

#### 1/4" Diameter



PART NUMBER 5/16" HWH	PART NUMBER #3 PFH	DESCRIPTION	FIXTURE THICKNESS	STRAIGHT SHANK DRILL BIT PART NUMBER	DRILL BIT DESCRIPTION	BOX QTY	CASE QTY
3367907	3373907	1/4" x 1-1/4"	0 - 1/4"	3098910	3/16" x 3-1/2"	100	1000
3368907	3374907	1/4" x 1-3/4"	1/4" - 3/4"	3098910	3/16" x 3-1/2"	100	1000
3369907	3375907	1/4" x 2-1/4"	3/4" - 1-1/4"	3099910	3/16" x 4-1/2"	100	1000
3370907	3376907	1/4" x 2-3/4"	1-1/4" - 1-3/4"	3099910	3/16" x 4-1/2"	100	1000
3371907	3377907	1/4" x 3-1/4"	1-3/4" - 2-1/4"	3100910	3/16" x 5-1/2"	100	1000

Tapcon Anchors must be installed using all Buildex system components (Tapcon Anchors, Condrive Tools and Tapcon Drill Bits) in order to qualify for ITW Buildex system support.

## PERFORMANCE TABLES

### Pullout Values

(in Concrete lbs. 3000 PSI, cured 40 days)

ANCHOR DIAMETER	1"	EMBEDMENT DEPTH IN SOLID MATERIAL		
	1"	1-1/4"	1-1/2"	1-3/4"
3/16	964	1080	1360	1595
1/4	1381	1616	2041	2332

### Pullout Values

(in Hollow Block)

ANCHOR DIAMETER	EMBEDMENT DEPTH IN SOLID MATERIALS
	1-1/4"
3/16	540
1/4	754

### Shear Values

ANCHOR DIAMETER	EMBEDMENT DEPTH	3145 PSI HARD ROCK CONCRETE	LIGHTWEIGHT HOLLOW BLOCK
3/16	1-1/4"	1460	1096
1/4	1-1/4"	1622	1218

**NOTE:** Indicated tension and shear failure values were obtained in tests conducted at CEL Consulting. Designated holding power depends on the quality of the masonry material, depth of embedment and proper hole size. These figures are offered only as a guide and are not guaranteed in any way by Illinois Tool Works Inc. The figures indicate average ultimate tension and shear failure values. A safety factor of 4:1 or 25% of ultimate value is generally accepted as a safe working load. However, reference should always be made to applicable codes for the specific safe working ratio. All values are based on close tolerance holes drilled with Buildex Tapcon® carbide drill bits. Performance of the Tapcon anchor may vary in extremely hard concrete aggregates. Consult your Buildex representative for further information.

As in the case with all applications, Buildex can only suggest typical fasteners for typical applications and that the connection design is the sole responsibility of the Building Design Engineer, Architect or otherwise responsible person charged with the design of the connection. For further product information, please contact the nearest Authorized Buildex Distributor or the Buildex Technical Service Department at 1-800-323-0720.