



**THE ORIGINAL**  
**Tapcon**

Advanced Threadform Technology™  
Easier to install—less torque required!

Approved for use in ACQ Treated Lumber

## Tapcon Anchors —

**SPECIFIED FOR ANCHORAGE INTO CONCRETE, BRICK OR BLOCK**

### 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
- Excellent corrosion protection—Climaseal™ coated
- Available in 410 Stainless Steel

#### Tapcon Anchors

Hex Head style on Tapcon Anchors is available for majority of fixture anchoring needs

Climaseal™ Coating is standard on all Tapcon anchors to provide extended corrosion resistance

Now available in 410 Stainless Steel

Phillips Flat Head style is available when flush seating is necessary in countersink applications

Advanced Threadform cuts into masonry materials for greater pullout values

Lengths of Tapcon Anchors range from 1-1/4" to 4" in 3/16" and up to 6" in 1/4" diameters.

Nail-Type Point guides the anchor into the pre-drilled hole. Excellent for wood to concrete applications

Select a length that meets your application needs.

SELECTION CHART										
Tapcon® Anchors										
PART NO. 3/16" HEX HEAD	PART NO. 1/4" HEX HEAD	PART NO. 3/16" FLAT HEAD	PART NO. 1/4" FLAT HEAD	RECOMMENDED TAPCON LENGTH In. (mm)	FIXTURE THICKNESS INCHES	BIT LENGTH In. (mm)	BITS FOR 3/16" TAPCON PART NO.	BITS FOR 1/4" TAPCON PART NO.	BITS FOR 3/16" SDS BIT NO.	BITS FOR 1/4" SDS BIT NO.
HW3-114	HW4-114	PF3-114	PF4-114	1-1/4 (31.8)	0" - 1/4"	3-1/2 (88.9)	7900814	7901014	----	----
HW3-134	HW4-134	PF3-134	PF4-134	1-3/4 (44.5)	1/4" - 3/4"	3-1/2 (88.9)	7900814	7901014	----	----
HW3-214	HW4-214	PF3-214	PF4-214	2-1/4 (57.2)	3/4" - 1-1/4"	4-1/2 (114.3)	7900818	7901018	----	----
HW3-234	HW4-234	PF3-234	PF4-234	2-3/4 (69.9)	1-1/4" - 1-3/4"	4-1/2 (114.3)	7900818	7901018	----	----
HW3-314	HW4-314	PF3-314	PF4-314	3-1/4 (82.6)	1-3/4" - 2-1/4"	5-1/2 (139.7)	7900822	7901022	----	----
HW3-334	HW4-334	PF3-334	PF4-334	3-3/4 (95.3)	2-1/4" - 2-3/4"	5-1/2 (139.7)	7900822	7901022	----	----
HW3-400	HW4-400	PF3-400	PF4-400	4 (101.6)	2-1/2" - 3"	5-1/2 (139.7)	7900822	7901022	----	----
----	HW4-500	----	PF4-500	5 (127.0)	3-1/2" - 4"	6-1/2 (165.1)	----	7901026	----	7901060
----	HW4-600	----	PF4-600	6 (152.4)	4-1/2" - 5"	7-1/2 (190.5)	----	7901030	790059	7901059

All boxes of ITW Tapcon come packaged with matching carbide-tipped bit. Tapcon is packaged 100 pieces per box and 500 pieces per master carton except HW4-600 and PF4-600 (400 in master carton).

SELECTION CHART					
Tapcon® Stainless Steel Anchors					
PART NO. 3/16" HEX HEAD	PART NO. 1/4" FLAT HEAD	RECOMMENDED TAPCON LENGTH In. (mm)	FIXTURE THICKNESS INCHES	BIT LENGTH In. (mm)	DRILL BIT PART NO.
SHW4-114	SPF4-114	1-1/4 (31.8)	0" - 1/4"	3-1/2 (88.9)	7901014
SHW4-134	SPF4-134	1-3/4 (44.5)	1/4" - 3/4"	3-1/2 (88.9)	7901014
SHW4-214	SPF4-214	2-1/4 (57.2)	3/4" - 1-1/4"	4-1/2 (114.3)	7901018
SHW4-234	SPF4-234	2-3/4 (69.9)	1-1/4" - 1-3/4"	4-1/2 (114.3)	7901018
SHW4-314	SPF4-314	3-1/4 (82.6)	1-3/4" - 2-1/4"	5-1/2 (139.7)	7901022
SHW4-334	SPF4-334	3-3/4 (95.3)	2-1/4" - 2-3/4"	5-1/2 (139.7)	7901022

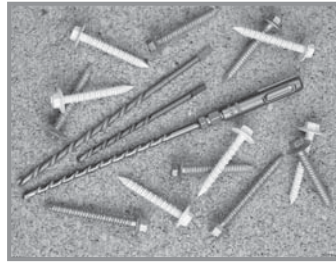
SELECTION CHART	
Tapcon® SDS Bits	
PART NUMBER	DESCRIPTION
790059	7" (SDS Rotohammer Bits for use with 3/16" Tapcon)
7901060	5" (SDS Rotohammer Bits for use with 1/4" Tapcon)
7901059	7" (SDS Rotohammer Bits for use with 1/4" Tapcon)



Choose from a variety of TAPCON to meet your specific needs!

**Maxi-Set Tapcon®  
Masonry Fastening System**

For Tapcon® applications that require more anchor bearing surface.



**Head Style**

5/16" across flats hex with 5/8" diameter flange.



**Applications**

- Shutters - protective and decorative.
- Screened porch and pool enclosures.
- Various sheet metal flashings.
- Decorative wrought iron.
- Wood nailers and plywood attachment.

**Stainless Steel Tapcon®  
Masonry Fastening System**  
410 Stainless Steel. ClimaSeal Coated



**Approved for use in  
ACQ Treated Lumber**

**Technical Data**

PERFORMANCE TABLE											
Tapcon® Anchors				Ultimate Tension and Shear Values (Lbs/kN) in Hollow Block							
ANCHOR DIA. In. (mm)		ANCHOR EMBEDMENT In. (mm)		LIGHT WEIGHT BLOCK				MEDIUM WEIGHT BLOCK			
				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.

PERFORMANCE TABLE							
Tapcon® Anchors		Allowable Edge and Spacing Distances Tapcon®					
PARAMETER	ANCHOR DIA. Inch	NORMAL WEIGHT CONCRETE			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 Anchors - Tension	3/16	3	1-1/2	0.73	3	1-1/2	1.00
	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	0.71	3	2	0.91
	1/4	2-1/2	1-1/4	0.78	4	2	0.88
Edge Distance - Shear	3/16	2-1/4	1-1.8	0.70	3	2	0.93
	1/4	3	1-1/2	0.59	4	2	0.80

For Sl: 1 inch = 25.4 mm

PERFORMANCE TABLE													
Tapcon® Anchors			Ultimate Tension and Shear Values (Lbs/kN) in Concrete										
ANCHOR DIA. In. (mm)	MIN. DEPTH OF EMBEDMENT In. (mm)		f <sub>c</sub> = 2000 PSI (13.8 MPa)			f <sub>c</sub> = 3000 PSI (20.7 MPa)			f <sub>c</sub> = 4000 PSI (27.6 MPa)			f <sub>c</sub> = 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)	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.





# LARGE DIAMETER TAPCON (LDT)



LDT

(3/8" & 1/2")

(5/8" & 3/4")  
Sawtooth™

3/8" and 1/2" are available  
with *EnvireX* coating

Uses standard drill bits—  
no special drill bits to  
purchase or lose!

## ADVANTAGES

### SAVE TIME

#### EASILY INSTALLED

- Installs in less than half the time of wedge anchors or adhesive anchors
- Simply drill a pilot hole and drive the LDT anchor by hand or impact

#### EASILY REMOVED

- No torching or grinding required to remove anchors

### SAVE MONEY

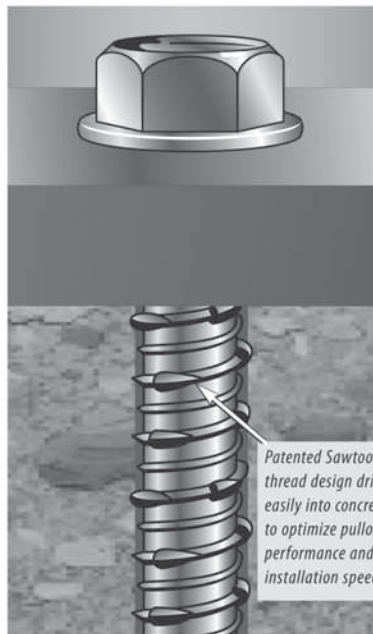
#### LOWER DRILL BIT COSTS

- Use standard ANSI bits instead of proprietary bits
- Single piece design, no nut and washer to assemble

#### USE STANDARD ANSI BITS

- No special proprietary bits to purchase or lose
- Reduce chances for anchor failure due to incorrect bit usage

## Sawtooth Threads™, now available on 5/8" and 3/4"



### IMPROVED PERFORMANCE IN LARGE DIAMETER HOLES

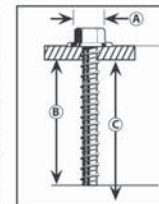
- Superior performance to wedge anchor
- Higher loads in shallow embedments
- Closer edge/spacing distance than mechanical anchors
- More threads for better thread engagement and higher pullout resistance
- Durable induction-hardened tip

### EASY INSTALLATION

- Easy 2-step installation, simply drill a pilot hole and drive
- Installs in less than half the time of a wedge anchor
- Efficient thread cutting
- Use standard drill bit sizes
- Single piece design—no nut and washer assembly
- Easily removed

### Selection Chart

LDT Size	ANSI Standard Drill Bit Diameter	Anchor Head (Socket Size) Diameter	Washer Diameter	Minimum Embedment	Hole Depth	USE IN		
						Concrete	CMU	
						Hollow	Grout-filled	
LDT 3/8"	5/16"	9/16"	13/16"	1-1/2"	2-1/2"	YES	YES	YES
LDT 1/2"	7/16"	3/4"	1"	2-1/2"	3-1/2"	YES	NO	YES
LDT 5/8"	1/2"	13/16"	1-3/16"	2-3/4"	3-3/4"	YES	NO	YES
LDT 3/4"	5/8"	15/16"	1-5/16"	3-1/4"	4-1/4"	YES	NO	YES



© See catalog for effective lengths and length indication code.

LDT 3/8" and 1/2" are available with *EnvireX* coating

1,000 hours salt spray ASTM B117. Approved for use in ACQ and MCQ lumber\*

\*Excessive content of copper in the ACQ and MCQ lumber may affect the anchor finish.

## APPROVALS/LISTINGS

Miami-Dade County – #04-1025.08

Florida Building Code