

Tapcon **Maxi-Set** Anchors



White UltraShield

UltraShield

DESCRIPTION/SUGGESTED SPECIFICATIONS

FOR TAPCON APPLICATIONS THAT REQUIRE MORE ANCHOR BEARING SURFACE.

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ADVANTAGES

- Same reliable performance and speed of installation as regular Tapcon.
- Large 5/8" diameter flange provides more bearing surface and increases pullover resistance. High 5/16" hex head adds driving stability.
- Compatible with DrivTru[™] socket system. Improves installation. Protects paint finish.
- UltraShield[™] and White UltraShield[™] long-life finish deliver excellent corrosion resistance.

CORROSION RESISTANCE

Salt Spray Test (ASTM B117)

UltraShield 1100 Hrs 10% or less rust

White UltraShield 1500 Hrs NO RED RUST

APPROVAL/LISTINGS

ICC Evaluation Service, Inc. - #ESR-1671 Miami-Dade County - NOA #12-0816.06

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

INSTALLATION STEPS

Read installation instructions before using!



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.

- 1. Select proper fastener diameter / head style / length. a) Use selection chart to choose proper length.
- 2. 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 using 5/16" socket.



APPLICATIONS

and decorative pool enclosures.

Various sheet metal flashings.

WARNING: WARNING:

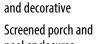
Failure to wear safety glasses with side shields can result in serious personal injury. Always wear ANSI compliant eye protection (ANSI Z87.1-2003).

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



ITW Red Head Call our toll free number 800-848-5611 or visit our web site for the most current product and technical information at www.itwredhead.com

Shutters - protective



Decorative wrought iron.

Wood nailers and plywood attachment.

Tapcon[®] Maxi-Set Anchors

SELECTION CHART

Tapcon[®] **Maxi-Set Anchors**

Diameter.....1/4" Point Type.....Nail

Thread Form..... Advanced Threadform Technology™ Finish.....UltraShield[™] or *White UltraShield[™] Head Style.......5/16" across flats hex with 5/8" diameter flange.

PART NO. 1/4" HEX HEAD	FINISH	BIT LENGTH In. (mm)	STRAIGHT SHANK BITS For 1/4" Tapcon Part No.
3294000	Ultra Shield	3-1/2 (88.9)	3098910
3383100	White Ultra Shield	3-1/2 (88.9)	3098910
3384100	White Ultra Shield	4-1/2 (114.3)	3099910
3409100	White Ultra Shield	5-1/2 (139.7)	3100910
	1/4" HEX HEAD 3294000 3383100 3384100	1/4" HEX HEAD 3294000 Ultra Shield 3383100 White Ultra Shield 3384100 White Ultra Shield	1/4" HEX HEAD In. (mm) 3294000 Ultra Shield 3-1/2 (88.9) 3383100 White Ultra Shield 3-1/2 (88.9) 3384100 White Ultra Shield 4-1/2 (114.3)

	I apcon ° SDS Bits
PART NUMBER	DESCRIPTION
3311910	7" (SDS Rotohammer Bits for use with 3/16" Tapcon)
7901060	5" (SDS Rotohammer Bits for use with 1/4" Tapcon)
3101910	7" (SDS Rotohammer Bits for use with 1/4" Tapcon)

NOTE: 2-3/4" and 3-1/4" lengths are special orders. Contact customer service for lead-times. Maxi-Sets are packed 1,000 pieces per master carton except 3409100 is packed 750 pieces.

PERFORMANCE TABLES

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

ANCHO		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	eMBEDMENT n) In. (mm)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)						
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. Divide by 4

Ultimate Tension and Shear Values Tapcon[®] Anchors (Lbs/kN) in Hollow Block

ANCHOR DIA. In. (mm)		ANCHOR	LIGHTWEI	GHT BLOCK	MEDIUM WEIGHT BLOCK		
		EMBEDMENT In. (mm)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	
	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. Divide by 4.

NOTE: 3/16" Tapcon requires 5/32" bit, 1/4" Tapcon requires 3/16" bit.

Tapcon[®]Anchors Allowable Edge and Spacing Distances

PARAMETER	ANCHOR	NORMAL WEIGHT CONCRETE			CONCRETE MASONRY UNITS (CMU)			
	DIA. In. (mm)	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	1/4	4	2	0.66	4	2	0.84	
Spacing Between Anchors - Shear	1/4	4	2	0.82	4	2	0.81	
Edge Distance - Tension	1/4	2-1/2	1-1/4	0.82	4	2	0.88	
Edge Distance -Shear	1/4	3	1-1/2	0.59	4	2	0.80	

For SI: 1 inch = 25.4 mm

ITW **Red Head**

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