

# Tapcon® **XL** Anchors



UltraShield

White UltraShield

### CATIONS







Shutters - protective and decorative

Screened porch and

Mounted electrical equipment

Sill plates

😓 RED HEAD"

#### **DESCRIPTION/SUGGESTED SPECIFICATIONS**

#### **EXTRA LARGE TAPCON FOR EXTRA LARGE CHALLENGES!**

# **ADVANTAGES**

- Internal TORX<sup>®</sup> T-40 drive assures easy installation.
- High button head resists cam-out during installation.
- Corrosion protection of UltraShield<sup>™</sup> and White UltraShield<sup>™</sup> to combat aggressive environments.
- Available in silver or white to complement standard fixtures.
- Delivers over 3,000 lbs. holding power in concrete.
- Alternative to sleeve anchors.
- 1/4" SDS Tapcon drill bit for added convenience.
- Condrive<sup>®</sup> XL with MegaGrip<sup>™</sup> bit holder for rapid one-tool installation.

# CORROSION RESISTANCE

Salt Spray Test (ASTM B117)

UltraShield 1100 Hrs 10% or less rust White UltraShield 1500 Hrs no red rust

# 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. Insert the adjustable MegaGrip bit tip holder in the small opening of sleeve. Slide the open end of the Condrive XL Installation Tool sleeve over the drill bit and snap in place.
- 4. Drive anchor using MegaGrip adjustable magnetic bit holder with TORX T-40 bit tip

MegaGrip PART#	DESCRIPTION
3400910	MegaGrip Bit Holder



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.



# **Tapcon<sup>®</sup> XL Anchors**

#### **SELECTION CHART**

Diameter5/16″ Thread Form Reverse Hi-Lo® Point TypeNail FinishUltraShield™ or *White UltraShie Head StyleHigh button with TORX T-40 Drive				
RECOMMENDED TAPCON LENGTH In. (mm)	PART NO.	FINISH	BIT LENGTH In. (mm)	1/4" DRILL BITS FOR TAPCON XL PART NO.
2-1/4 (57.2)	3395902	Ultra Shield	6-3/4" SDS drill bit with hex	3394910

XLs are packed 100 pieces per master carton.

PART NO.	DESCRIPTION	CARTON QTY
3401910	Condrive® XL Installation Tool with MegaGrip™ Bit Holder with TORX® T-40 Bit Tip	10 per master carton
3400910	MegaGrip™ Magnetized Bit Holder with TORX T-40 Bit Tip	10 per bag
3394910	1/4" x 6-3/4" SDS Tapcon Drill Bit with Hex	1 piece per tube

Tapcon XL Anchors must be installed using all Red Head system components (Tapcon XL Anchors, Condrive XL Installation Tool and Tapcon Drill Bits) in order to qualify for ITW Red Head system support.

#### **PERFORMANCE TABLES**

	<b>Tapcon</b> <sup>®</sup> XL Anchors			
ANCHOR DIA. In. (mm)	MIN. DEPTH OF EDGE DISTAN EMBEDMENT In. (mm)	EDGE DISTANCE	f'c = 3000 PSI (20.7 MPa)	
			TENSION Lbs. (kN)	SHEAR Lbs. (kN)
5/16 (7.9)	1-1/4 (31.8)	1-9/16 (39.7)	1,050 (4.7)	1,330 (5.9)
		2-3/16 (55.6)	1,205 (5.4)	1,725 (7.7)
	1-3/4 (44.5)	1-9/16 (39.7)	2,020 (9.0)	1,530 (6.8)
		2-3/16 (55.6)	2,250 (10.0)	2,505 (11.1)
	2-1/4 (57.2)	1-9/16 (39.7)	2,850 (12.7)	1,955 (8.9)
		2-3/16 (55.6)	3,120 (13.9)	3,250 (14.4)

Safe working loads for single installation under static loading should not exceed 25% of the ultimate load capacity. Divide by 4.

1. Pilot hole diameter shall be 0.263" and drilled 1/4" longer than the necessary embedment.

2. Allowable loads are based ultimate test load divide by 4.

3. Recommended center to center distance of 3-3/4" is required for 100% efficiency and 1-7/8" for 50% efficiency.

4. Embedment is through 1-1/4" face shell of hollow block.

#### Tapcon® **Ultimate Tension & Shear Values in Concrete Masonry Units** XL Anchors **HOLLOW CORE<sup>1</sup> GROUT-FILLED**<sup>2</sup> ANCHOR MINIMUM EDGE DIA. **DEPTH OF** TENSION TENSION DISTANCE SHEAR SHEAR EMBEDMENT In. (mm) (Inches) Lbs. (kN) Lbs. (kN) Lbs. (kN) Lbs. (kN) In. (mm) 2,280 5/16 (7.9) 1-1/4 (31.8) 4 1,045 (4.6) 2,280 (10.1) 1,045 (4.6) (10.1) 1-3/4 (44.5) 4 NOT RECOMMENDED NOT RECOMMENDED 1,950 (8.7) 2,825 (12.6)

NOT RECOMMENDED

NOT RECOMMENDED

3,770

(16.8)

3,140

(14.0)

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

1 CMU = 1,600 PSI minimum compressive strength.

2-1/4

2 CMU = 1,600 PSI minimum compressive strength with 2,000 PSI grout.

(57.2)

