

# **Tapcon<sup>®</sup>** XL Anchors



UltraShield

### APPLICATIONS







Shutters - protective and decorative

Screened porch and pool enclosures. Railings

Mounted electrical equipment

Sill plates

### **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> to combat aggressive environments.
- Available in silver.
- Delivers over 3,000 lbs. holding power in concrete.
- Alternative to sleeve anchors.
- Use 1/4" Tapcon Drill Bit

### **CORROSION RESISTANCE**

Salt Spray Test (ASTM B117)

1100 Hrs 10% or less rust

UltraShield

### **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. Drill Hole minimum  $1\!\!4"$  deeper than Tapcon Anchor to be embedded.

Minimum anchor embedment: 1" Maximum anchor embedment: 13/4"

2. Drive anchor using T-40 Torx<sup>®</sup> Drive



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® XL Anchors**

SELECTION CHART								
Tapcon° Noint Type NailThread Form Reverse Hi-Lo° FinishUltraShield™ Head Style High button with TORX T-40 Drive								
RECOMMENDED TAPCON LENGTH								
in.		(mm)	PART NO.	FINISH				
2-1/4 (57.2)			3395902	Ultra Shield				
XLs are packed 100 pieces per master carton.								

PERFORMANCE TABLE											
	CON <sup>®</sup> Ultimate Tension and Shear Values (lbs/kN)   L Anchors in Solid Concrete										
		MIN. DEPTH OF					ť c = 3000 PSI (20.7 MPa)				
ANCHOR	ANCHOR DIAMETER		EMBEDMENT		EDGE DISTANCE		TENSION		SHEAR		
in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kN)	lbs.	(kN)		
		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)		
5/16	(7.9)	1-3/4	(44.5)	1-9/16	(39.7)	2,020	(9.0)	1,530	(6.8)		
5/10	(7.9)			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)		

Allowable working loads for the single installation under static loading should not exceed 25% capacity of the Ultimate Load. To calculate the Allowable Load, divide the Ultimate load by 4 Pilot hole diameter – Use 1/4" ANSI spec carbide tipped drill bit. Drill 1/4" longer than necessary embedment. Recommended center to center distance of 3-3/4" is required for 100% efficiency and 1-7/8" for 50% efficiency.

#### **PERFORMANCE TABLE** Tapcon<sup>®</sup> **Ultimate Tension and Shear Values** XL Anchors

#### in Concrete Masonry Units

		MINIMIN	MINIMUM DEPTH OF		HOLLOW BLOCK <sup>1</sup>				GROUT-FILLED BLOCK <sup>2</sup>			
			DMENT	EDGE DISTANCE TENSION		SHEAR		TENSION		SHEAR		
in.	(mm)	in.	(mm)	in.	lbs.	(kN)	lbs.	(kN)	lbs.	(kN)	lbs.	(kN)
		1-1/4	(31.8)	4	1,045	(4.6)	2,280	(10.1)	1,045	(4.6)	2,280	(10.1)
5/16	(7.9)	1-3/4	(44.5)	4	NOT RECOMMENDED	NOT RECOMMENDED		1,950	(8.7)	2,825	(12.6)	
	2-1/4	(57.2)	(57.2) 4		NOT RECOMMENDED		NOT RECOMMENDED		(16.8)	3,140	(14.0)	

Allowable working loads for the single installation under static loading should not exceed 25% capacity of the Ultimate Load. To calculate the Allowable Load, divide the Ultimate load by 4

1. CMU = 1,600 PSI minimum compressive strength.

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

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



