

TapconXL Anchors



UltraShield

APPLICATIONS







and decorative
Screened porch and pool enclosures.
Railings
Mounted electrical equipment
Sill plates

Shutters - protective

DESCRIPTION/SUGGESTED SPECIFICATIONS

EXTRA LARGE TAPCON FOR EXTRA LARGE CHALLENGES!

ADVANTAGES

- Internal TORX® T-40 drive assures easy installation.
- High button head resists cam-out during installation.
- Corrosion protection of UltraShield™ 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)

UltraShield

1100 Hrs 10% or less 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. Drill Hole minimum $\frac{1}{4}$ " deeper than Tapcon Anchor to be embedded.

Minimum anchor embedment: 1" Maximum anchor embedment: 134"

2. Drive anchor using T-40 Torx® Drive



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.

Tapcon® XL Anchors

SELECTION CHART

Tapcon[®] XL Anchors

Diameter 5/16" Thread Form Reverse Hi-Lo® Point Type Nail Finish UltraShield™ 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

Tapcon[®] XL Anchors

Ultimate Tension and Shear Values (lbs/kN) in Solid Concrete

		MIN. DEPTH OF				f'c = 3000 PSI (20.7 MPa)					
ANCHOR DIAMETER		EMBEDMENT		EDGE DISTANCE		TENSION		SHEAR			
in.	(mm)	in.	(mm)	in.	(mm)	lbs.	(kN)	lbs.	(kN)		
	(7.9)	1-1/4	(31.8)	1-9/16	(39.7)	1,050	(4.7)	1,330	(5.9)		
5/16				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)		

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® XL Anchors Ultimate Tension and Shear Values in Concrete Masonry Units

MINIMUM DEPTH OF ANCHOR DIAMETER EMBEDMENT			HOLLOW CORE ¹				GROUT-FILLED ²					
				EDGE DISTANCE	TENSION		SHEAR		TENSION		SHEAR	
in.	(mm)	in.	(mm)	in.	lbs.	(kN)	lbs.	(kN)	lbs.	(kN)	lbs.	(kN)
	(7.9)	1-1/4	(31.8)	4	1,045	(4.6)	2,280	(10.1)	1,045	(4.6)	2,280	(10.1)
5/16		1-3/4	(44.5)	4	NOT RECOMMENDED		NOT RECOMMENDED		1,950	(8.7)	2,825	(12.6)
		2-1/4	(57.2)	4	NOT RECOMMENDED		NOT RECOMMENDED		3,770	(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

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

^{1.} $\mathsf{CMU} = 1,600 \; \mathsf{PSI} \; \mathsf{minimum} \; \mathsf{compressive} \; \mathsf{strength}.$

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