

Tapcon[®]

Storm Guard Anchors



DESCRIPTION/SUGGESTED SPECIFICATIONS

DIRECT MOUNT PERMANENT ANCHORS FOR QUICK AND EASY INSTALLATIONS OF METAL AND PLYWOOD PANELS TO CONCRETE AND BLOCK.



ADVANTAGES

- Available in UltraShield™ or White UltraShield™ for corrosion protection in coastal environments.
- Available in 2-1/4" and 3-1/4" lengths.
- Both lengths have 1/4-20 x 7/8" external thread above collar.
- Threaded chamfered safety collar prevents overdriving.
- 3/16" Hex Drive.
- No caulking required.
- Use with 3/16" carbide-tipped drill bit.

APPROVAL/LISTINGS

Miami-Dade County – #06-0222.07

INSTALLATION STEPS

Read instructions before using (installation)!



WARNING:

If there are any questions concerning proper installation, applications or appropriate use of this product, please call our Technical Services Department at 1-800-899-7890. Failure to follow these instructions can result in serious personal injury.

3/16" Nut Driver Installation Tool
(Part # 3426910)



APPLICATIONS



Direct mount permanent anchors for quick and easy installations for metal and plywood panels to wood, hollow block and concrete.



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.

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SELECTION CHART



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

Thread Form..... Original Notched Hi-Lo™
Finish.....UltraShield™ or *White UltraShield™

PART NO.	DESCRIPTION	COATING	BOX QTY
3424000	1/4" dia. x 2-1/4"	UltraShield	1,000
3424100	1/4" dia. x 2-1/4"	White UltraShield	1,000
3425000	1/4" dia. x 3-1/4"	UltraShield	500
3425100	1/4" dia. x 3-1/4"	White UltraShield	500
3426910	3/16" Nut Driver	---	1
7900814	3/16" x 3-1/2" Carbide-tipped Drill Bit	---	1

PERFORMANCE TABLES



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

ANCHOR DIA. In. (mm)	MIN. DEPTH OF EMBEDMENT In. (mm)	EDGE DISTANCE	f'c = 3000 PSI (20.7 MPa)	
			TENSION Lbs. (kN)	SHEAR Lbs. (kN)
1/4 (6.4)	1 (25.4)	1-1/4 (31.8)	1,230 (5.5)	1,339 (6.0)
	1 (25.4)	2-1/2 (63.5)	1,701 (7.6)	2,333 (10.4)
	1-3/4 (44.5)	1-1/4 (31.8)	2,704 (12.0)	1,375 (6.1)
	1-3/4 (44.5)	2-1/2 (63.5)	2,844 (12.6)	2,618 (11.6)

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



Ultimate Tension and Shear Values (Lbs/kN) in Hollow Block

ANCHOR DIA. In. (mm)	MIN. DEPTH OF EMBEDMENT In. (mm)	EDGE DISTANCE	f'c = 1500 PSI (10.4 MPa)	
			TENSION Lbs. (kN)	SHEAR Lbs. (kN)
1/4 (6.4)	1-1/4 (31.8)	1-1/4 (31.8)	1,955 (8.7)	536 (2.4)
	1-1/4 (31.8)	2-1/2 (63.5)	1,940 (8.6)	1,088 (4.8)



Ultimate Tension and Shear Values (Lbs/kN) in Grout-Filled (CMU)

ANCHOR DIA. In. (mm)	MIN. DEPTH OF EMBEDMENT In. (mm)	EDGE DISTANCE	GROUT-FILLED (CMU) f'c = 2000 PSI (13.8 MPa)	
			TENSION Lbs. (kN)	SHEAR Lbs. (kN)
1/4 (6.4)	1-3/4 (44.5)	1-1/4 (31.8)	3,335 (14.8)	1,207 (5.4)
	1-3/4 (44.5)	2-1/2 (63.5)	3,779 (16.8)	2,061 (9.2)

