



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Powers Fasteners, Inc.
2 Powers Lane
Brewster, NY 10509

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Tapper Screw Anchor for Masonry

APPROVAL DOCUMENT: Drawing No. **09-POW-01**, titled "Tapper Screw Anchor for Masonry", Sheet 1 of 1, dated 07/09/09, prepared by Power Fasteners, Inc., signed and sealed by John W. Knezevich, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance (NOA) number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each box shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved or MDCPCA", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Handwritten Signature]
8/31/09

NOA No: 09-0714.04
Expiration Date: September 23, 2014
Approval Date: September 23, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **09-POW-01**, titled "Tapper Screw Anchor for Masonry", Sheet 1 of 1, dated 07/09/09, prepared by Power Fasteners, Inc., signed and sealed by John W. Knezevich, P.E.

B. TESTS

1. Test report on Tension and Shear Capacity per ASTM E 488 of 1/4" Perma-Seal and 410 Stainless Steel Anchors, prepared by Stork Twin City Testing Corporation, Test Report No. **324021**, dated 09/27/04, signed and sealed by John D. Lee, P.E.

"Submitted under NOA No. 03-0303.14"

2. Test report on Corrosion Resistance per ASTM G 85, Annex 5 and TAS 114, Appendix E, prepared by Applied Research Laboratories, Test Report No. **ARL 30388**, dated 10/10/02, signed and sealed by C. A. Hamon, P.E.

C. CALCULATIONS

1. Anchors' allowable load capacities prepared by Knezevich Consulting, LLC, dated 06/22/09, signed and sealed by John W. Knezevich, P.E.

D. MATERIAL CERTIFICATIONS

1. None

E. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)

F. STATEMENTS

1. Code compliance letter issued by Knezevich Consulting, LLC, dated 07/09/09, signed and sealed by John W. Knezevich, P.E.



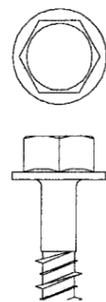
8/31/09

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 09-0714.04
Expiration Date: September 23, 2014
Approval Date: September 23, 2009

GENERAL NOTES:

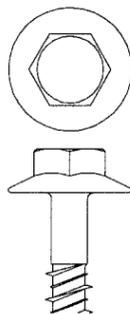
1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT POWERS FASTENERS' TAPPER CONCRETE SCREW ANCHOR ANALYZED AND TESTED IN ACCORDANCE WITH THE HIGH VELOCITY HURRICANE ZONE PROVISIONS OF THE FLORIDA BUILDING CODE, 2007 EDITION WITH 2009 SUPPLEMENTS.
2. POWERS TAPPER IS A CORROSION RESISTANT MASONRY FASTENER AVAILABLE IN PERMA-SEAL COATED CARBON STEEL OR 410 STAINLESS STEEL WITH CLASS 4 SEALCOAT. REFERENCE TABLES FOR APPROPRIATE DESIGN VALUES.
3. POWERS TAPPER IS AVAILABLE WITH A PHILLIPS PAN HEAD OR HEX WASHER HEAD.
4. REFERENCE STORK TWIN CITY TESTING CORPORATION, TEST REPORT NO. 324021 DATED SEPTEMBER 27, 2004.
5. MASONRY SHALL CONFORM TO ASTM C-90 WITH GROUTED MASONRY HAVING A MINIMUM GROUT COMPRESSIVE STRENGTH OF 2,000 PSI.
6. ANCHOR INSTALLATION SHALL BE IN CONFORMANCE WITH THE ANCHOR INSTALLATION SPECIFICATIONS BY POWERS AND THESE EVALUATION DOCUMENTS.
 - A. DRILL PILOT HOLE WITH THE PROPER DIAMETER TAPPER DRILL BIT, AT LEAST 1/4" DEEPER THAN THE EMBEDMENT REQUIRED.
 - B. BLOW THE HOLE CLEAN OF DUST AND OTHER MATERIAL.
 - C. SELECT THE TAPPER INSTALLATION TOOL AND DRIVE SOCKET.
 - D. INSERT THE HEAD OF THE TAPPER INTO THE DRIVER, SET THE DRILL TO ROTATION ONLY FOR MASONRY, AND PLACE THE POINT OF THE TAPPER THROUGH THE FIXTURE INTO THE PREDRILLED HOLE.
 - E. DRIVE THE ANCHOR IN ONE STEADY CONTINUOUS MOTION UNTIL IT IS FULLY SEATED AT THE PROPER EMBEDMENT. THE DRIVER WILL AUTOMATICALLY DISENGAGE FROM THE HEAD OF THE TAPPER.
7. CENTER TO CENTER ANCHOR SPACING FOR 100% ALLOWABLE LOAD IS 16 DIAMETERS. CLOSER SPACING IS NOT IN COMPLIANCE WITH THESE DOCUMENTS.
8. ANCHOR CAPACITIES AT SPECIFIC EDGE DISTANCES ARE BASED ON TEST RESULTS. EDGE DISTANCES BELOW THESE TABULATED VALUES ARE NOT IN COMPLIANCE WITH THESE DOCUMENTS.
9. THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE SPECIFIC APPLICATIONS.
10. ANY MODIFICATION OR ADDITIONS TO THESE PRODUCT EVALUATION DOCUMENTS WILL VOID THE DOCUMENTS.

**STANDARD
HEX HEAD
(410 SS ONLY)**

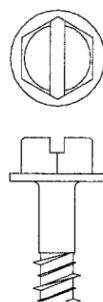


HEAD
HEIGHT
VARIES

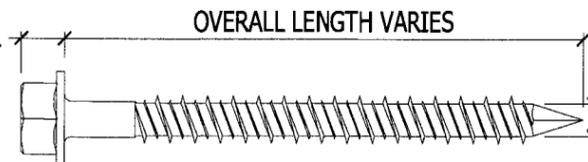
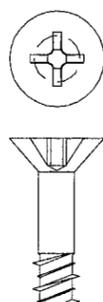
**FLANGE
HEX HEAD**



**SLOTTED HEX
WASHER HEAD**



**PHILLIPS
OR TRIM
FLAT HEAD**



Approved as complying with the
Florida Building Code
Date: 07/23/2009
Job # 09-0714-04
Miami Dade Product Control
Division
By: [Signature]

TABLE 1					
ALLOWABLE LOAD CAPACITIES FOR TAPPER SCREW ANCHORS IN GROUTED CONCRETE MASONRY UNITS					
ANCHOR INSTALLED THROUGH FACE SHELL OR CELL WEB					
ANCHOR DIAMETER (IN)	ANCHOR MATERIAL AND PLATING / COATING	MINIMUM EMBEDMENT DEPTH (IN)	MINIMUM EDGE DISTANCE (IN)	ALLOWABLE TENSION (LBS)	ALLOWABLE SHEAR (LBS)
1/4"	PERMA-SEAL COATED CARBON STEEL	1.5"	4"	275	300

TABLE 2					
ALLOWABLE LOAD CAPACITIES FOR TAPPER SCREW ANCHORS IN GROUTED CONCRETE MASONRY UNITS					
ANCHOR INSTALLED IN CELL OPENING (TOP OF WALL) FOR SILL PLATES AND OTHER ATTACHMENTS					
ANCHOR DIAMETER (IN)	ANCHOR MATERIAL AND PLATING / COATING	MINIMUM EMBEDMENT DEPTH (IN)	MINIMUM EDGE DISTANCE (IN)	ALLOWABLE TENSION (LBS)	ALLOWABLE SHEAR (LBS)
1/4"	PERMA-SEAL COATED CARBON STEEL	2.0"	1.75"	275	220

TABLE 2					
ALLOWABLE LOAD CAPACITIES FOR TAPPER SCREW ANCHORS IN NON-GROUTED (HOLLOW) CONCRETE MASONRY UNITS					
ANCHOR INSTALLED THROUGH FACE SHELL OR CELL WEB					
ANCHOR DIAMETER (IN)	ANCHOR MATERIAL AND PLATING / COATING	MINIMUM EMBEDMENT DEPTH (IN)	MINIMUM EDGE DISTANCE (IN)	ALLOWABLE TENSION (LBS)	ALLOWABLE SHEAR (LBS)
1/4"	PERMA-SEAL COATED CARBON STEEL	1.0"	4"	115 ⁴	200
1/4"	410 STAINLESS STEEL WITH CLASS 4 SEALCOAT	1.0"	4"	135	205

TABLE NOTES:

1. ALLOWABLE LOADS SHOWN ARE BASED ON A 5.0 FACTOR OF SAFETY ON THE ULTIMATE CAPACITY. NO INCREASE IN ALLOWABLE STRESS FOR WIND LOADS IS ACCEPTABLE.
2. EDGE DISTANCES LESS THAN THOSE INDICATED ARE NOT PART OF THIS EVALUATION.
3. A MINIMUM ANCHOR SPACING OF 4" IS REQUIRED. ANCHOR SPACING OF LESS THAN 4" ARE NOT PART OF THIS EVALUATION EXCEPT AS SPECIFIED IN NOTE 4.
4. WHERE LOADS ARE IN TENSION ONLY, SPACING MAY BE REDUCED TO 2" AND A SPACING REDUCTION FACTOR OF 0.85 MAY BE USED FOR THE PERMA-SEAL COATED CARBON STEEL NON-GROUTED MASONRY TENSION VALUE.

KNEZEVICH CONSULTING
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Tapper Screw Anchor for Masonry
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Brewster, NY 10509
Tel: (800) 524-3244
Fax: (914) 576-6483

no	date	by	description

J.W. Knezevich
Professional Engineer
FL License No.: PE 41961

drawn by ARV scale AS NOTED
date 07/09/2009
drawing no. **09-POW-01**
sheet 1 of 1