



**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) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**ITW, Inc. /Division of Buildex.
1349 West Bryn Mawr Ave.
Itasca, IL 60143**

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Tapcon Masonry Fasteners.

APPROVAL DOCUMENT: Drawing No.03-308, Sheets 1 of 1, titled "Tapcon Masonry Fasteners" dated 07/18/03 with last revision on 07/17/03, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, PE, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance (NOA) number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit or box shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", 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 revises NOA # 03-0114.03 and consists of this page, evidence page as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido E. Font PE.**


12/11/03



**NOA No: 03-0722.05
Expiration Date: February 20, 2008
Approval Date: December 11, 2003**

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A. DRAWINGS

1. Drawing No.03-308, Sheets 1 of 1, titled "Tapcon Masonry Fasteners," dated 07/18/03, with last revision 07/17/03, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.

B. TESTS

	Laboratory	Test Report	Date	Signature
01.	Heti 00-4160	ASTM E488	10/25/00	H. M. Medina, PE.
02.	Heti 00-4092	ASTM E488	02/25/00	H. M. Medina, PE.
03.	Heti 00-4153	ASTM E488	10/25/00	H. M. Medina, PE
04.	Heti 00-4072	ASTM E 488	02/25/00	H. M. Medina, PE.
05.	Heti 01-5029	ASTM E.488	05/07/01	H. M. Medina, PE.
06.	Heti 01-5027	ASTM E 488	05/07/01	H. M. Medina, PE
07.	PRI 01078	Protocol PA 114	08/27/01	C. L. Thomas, PE
08.	PRI 01079	Protocol PA 114	08/27/01	C. L. Thomas, PE
09.	ARL 30291	ASTM E488	01/22/02	C. A. Hamon, PE
10.	ARL 30292	ASTM E488	01/29/02	C. A. Hamon, PE
11.	ARL 30299	ASTM E488	01/30/02	C. A. Hamon, PE
12.	ARL 30294	ASTM E488	01/30/02	C. A. Hamon, PE.
13.	Heti 01-C109	ASTM C39	01/16/01	H. M. Medina, PE
14.	MTS 25-7654-PS	Protocol PA 114	06/03/96	H. M. Medina, PE

C. CALCULATION

N/A

D. QUALITY ASSURANCE

1. Miami-Dade Product Control Division

E. MATERIAL CERTIFICATIONS

N/A

F. STATEMENTS

1. Code Compliance letter issued by Knezevich & Associates, Inc. on 06/21/01, signed and sealed by V.J. Knezevich, PE.
2. No change letter issued by ITW Buildex on 11/07/03 and signed by D. Kenny.



12/11/03

Candido F. Font PE.
Sr. Product Control Examiner
NOA No 03-0722.05
Expiration Date: February 20, 2008
Approval Date: December 11, 2003

ITW BUILDEX TAPCON

DESCRIPTION

ITW BUILDEX TAPCON ANCHORS ARE MANUFACTURED FROM HEAT TREATED STEEL AND HAVE AN ALTERNATING HIGH LOW THREAD FORM. THESE ANCHORS HAVE BEEN TESTED FOR CORROSION RESISTANCE IN ACCORDANCE WITH ASTM G85, ANNEX 5 AND MIAMI-DADE COUNTY PROTOCOL TAS 114, APPENDIX 'E'

ITW BUILDEX TAPCON ANCHORS ARE ALSO MANUFACTURED WITH ULTRASHIELD OR WHITE ULTRASHIELD CORROSION RESISTANT COATINGS IN ACCORDANCE WITH ASTM G85, ANNEX 5 AND MIAMI-DADE COUNTY PROTOCOL TAS-114, APPENDIX 'E'.

NOTES:

- ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH ITW BUILDEX PUBLISHED INSTALLATION INSTRUCTIONS IN THE PRODUCT & RESOURCE BOOK AND THIS MIAMI-DADE COUNTY, FLORIDA B.C.C.O. NOTICE OF ACCEPTANCE.
- CONCRETE WILL CONFORM TO AMERICAN CONCRETE INSTITUTE MANUAL OF CONCRETE PRACTICE ACI 301.
- HOLLOW AND GROUT FILLED CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90.
- REFERENCE HURRICANE ENGINEERING & TESTING INC. TEST REPORTS;

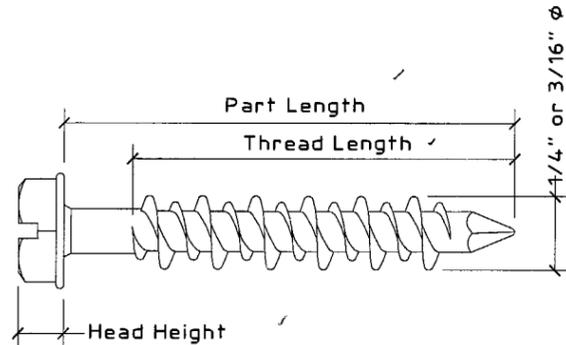
HET1 00 4072 DATED 02/25/00
 HET1 00 4153 DATED 10/25/00
 HET1 00 4160 DATED 10/25/00
 HET1 00 4092 DATED 02/25/00
 HET1 01 5027 DATED 05/07/01
 HET1 01 5029 DATED 05/07/01

AND PRI ASPHALT TECHNOLOGIES, INC. TEST REPORTS;

PRI01079 DATED 08/27/01
 PRI01078 DATED 08/27/01

AND APPLIED RESEARCH LABORATORIES TEST REPORTS;

ARL-30291 DATED 01/22/02
 ARL-30292 DATED 01/29/02
 ARL-30299 DATED 01/30/02
 ARL-30294 DATED 01/30/02



3/16" OR 1/4" TAPCON HEAD STYLES

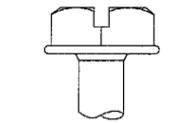
410 STAINLESS STEEL HEAD MARKINGS



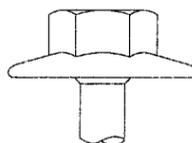
CARBON STEEL HEAD MARKINGS



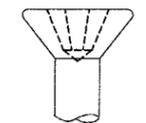
SLOTTED HEX WASHER HEAD



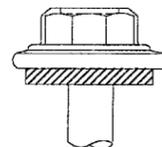
MAXI-SET HEX WASHER HEAD



PHILLIPS FLAT HEAD



SCOTS STAINLESS STEEL HEAD WITH WASHER



3/16" DIA. TAPCON

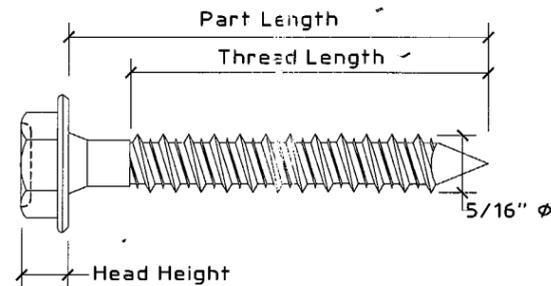
- FOR 3/16" TAPCON, PILOT HOLE DIAMETER SHALL BE 0.171" AND DRILLED 1/4" LONGER THAN THE NECESSARY EMBEDMENT.
- ALLOWABLE LOADS ARE BASED ON ULTIMATE TEST LOAD DIVIDED BY 4.
- RECOMMENDED CENTER TO CENTER DISTANCE OF 2-1/4" IS REQUIRED FOR 100% EFFICIENCY AND 1-1/8" FOR 50% EFFICIENCY.

1/4" DIA. TAPCON

- FOR ALL 1/4" TAPCON, PILOT HOLE DIAMETER SHALL BE 0.200" AND DRILLED 1/4" LONGER THAN THE NECESSARY EMBEDMENT.
- ALLOWABLE LOADS ARE BASED ON ULTIMATE TEST LOAD DIVIDED BY 4.
- RECOMMENDED CENTER TO CENTER DISTANCE OF 3" IS REQUIRED FOR 100% EFFICIENCY AND 1-1/2" FOR 50% EFFICIENCY.

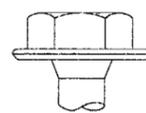
5/16" (XL) TAPCON

- PILOT HOLE DIAMETER SHALL BE 0.263" AND DRILLED 1/4" LONGER THAN THE NECESSARY EMBEDMENT.
- ALLOWABLE LOADS ARE BASED ON ULTIMATE TEST LOAD DIVIDED BY 4.
- RECOMMENDED CENTER TO CENTER DISTANCE OF 3-3/4" IS REQUIRED FOR 100% EFFICIENCY AND 1-7/8" FOR 50% EFFICIENCY.
- EMBEDMENT IS THROUGH 1-1/4" FACE SHELL OF HOLLOW BLOCK.
- WOOD BUCK IS LOCATED BETWEEN CONCRETE AND SIDE MEMBER.

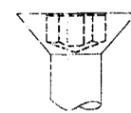
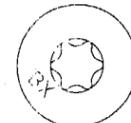


5/16" (XL) TAPCON HEAD STYLES

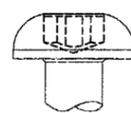
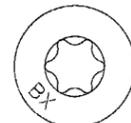
HEX WASHER HEAD



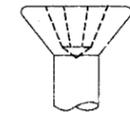
FLAT HEAD



BUTTON HEAD



PHILLIPS FLAT HEAD



1/4" DIAMETER 410 STAINLESS STEEL TAPCON ALLOWABLE LOADS (lbs.)				
MIN. 3192 P.S.I. CONCRETE				
EMBEDMENT	EDGE DISTANCE			
	1"		2-1/2"	
	TENSION	SHEAR	TENSION	SHEAR
1"	166	148	166	275
1-3/4"	466	189	547	472
HOLLOW BLOCK				
EMBEDMENT	EDGE DISTANCE			
	1"		2-1/2"	
	TENSION	SHEAR	TENSION	SHEAR
1-1/4"	148	107	160	279

3/16" DIAMETER CARBON STEEL TAPCON ALLOWABLE LOADS (lbs.)				
MIN. 3192 P.S.I. CONCRETE				
EMBEDMENT	EDGE DISTANCE			
	1-1/8"		2-5/8"	
	TENSION	SHEAR	TENSION	SHEAR
1"	128	147	128	157
1-3/4"	354	160	354	229
HOLLOW BLOCK				
EMBEDMENT	EDGE DISTANCE			
	1-1/8"		2-5/8"	
	TENSION	SHEAR	TENSION	SHEAR
1-1/4"	94	112	99	197

5/16" DIAMETER (XL) CARBON STEEL TAPCON ALLOWABLE LOADS (lbs.)		
GROUT FILLED BLOCK		
EMBEDMENT	EDGE DISTANCE	
	4"	
	TENSION	SHEAR
1-3/4"	487	706
2-1/4"	942	785
HOLLOW BLOCK		
EMBEDMENT	EDGE DISTANCE	
	4"	
	TENSION	SHEAR
1-3/4"	261	570

SEE NOTE 4

1/4" DIAMETER CARBON STEEL TAPCON ALLOWABLE LOADS (lbs.)				
MIN. 3192 P.S.I. CONCRETE				
EMBEDMENT	EDGE DISTANCE			
	1"		2-1/2"	
	TENSION	SHEAR	TENSION	SHEAR
1"	209	115	212	297
1-3/4"	510	115	575	384
HOLLOW BLOCK				
EMBEDMENT	EDGE DISTANCE			
	1"		2-1/2"	
	TENSION	SHEAR	TENSION	SHEAR
1-1/4"	117	94	195	264

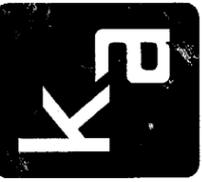
5/16" DIAMETER (XL) CARBON STEEL TAPCON ALLOWABLE LOADS (lbs.)						
MIN. 2899 P.S.I. CONCRETE						
EMBEDMENT	EDGE DISTANCE					
	1-9/16"		2-3/16"		3-1/8"	
	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR
1-1/4"	262	333	301	431	301	543
1-3/4"	505	382	563	626	583	627
2-1/4"	713	489	780	812	788	852

5/16" DIAMETER (XL) CARBON STEEL TAPCON ALLOWABLE LOADS (lbs.)	
2 x WOOD BUCK (G=0.36)	
EMBEDMENT INTO 3000 P.S.I. CONCRETE	EDGE DISTANCE
	1-3/4"
	SHEAR
1-3/4"	312

SEE NOTE 5

PRODUCT REVISED
 in accordance with the Florida

03-0722.05
 02/22/08
 Division Product Control



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
 TEL: (954) 382-2800 • FAX: (954) 382-2989 • FLORIDA COA #3205
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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TAPCON MASONRY FASTENERS
ITW Buildex
 Buildex Division of Illinois Tool Works Inc.
 1349 West Bryn Mawr Avenue Itasca, IL 60143
 630.595.3500 FAX 630.595.3549

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No: PE 0410983

JUL 18 2003

no	date	by	description
0	07/17/03	DLB	PREV. DWG. NO. 01-372

date 07/18/2003
 scale AS NOTED drawn by MCR
 design by DLB checked by VJK
 drawing no. 03-308
 sheet 1 of 1