



MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING

**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Illinois Tool Works Inc. /Division of Buildex**  
**1349 West Bryn Mawr Avenue**  
**Itasca IL 60143**

**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT SECTION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

**Tapcon Concrete Anchors**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**Acceptance No.: 00-0118.02**

**Expires: 02/20/2003**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS**

**BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director

Miami-Dade County  
Building Code Compliance Office

**Approved: 03/31/2000**

1 of 3



**ITW Buildex.**

**ACCEPTANCE NO: 00-0118.02**

**APPROVED : MAR 3 1 2000**

**EXPIRES : 02/20/2003**

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

**1.1** This renews the Notice of Acceptance No. 96-1226.03, which was issued on 02/20/97. It approves concrete screws as described in Section 2 of this Notice of Acceptance. They are designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County for the locations where the actual loads as determined by SFBC Chapter 23, do not exceed the allowable load indicated in the approved drawings.

**2. PRODUCT DESCRIPTION**

**2.1** The concrete screws **ITW Buildex Tapcons** shall be fabricated and used in strict compliance with the following documents: Drawing No. TCN-1000, titled "Tapcon Masonry Fasteners", prepared by ITW Buildex dated 01/31/00 sheet 1 of 1. It bears the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

**3.1** Allowable loads are for 2000, 3000 & 4000 psi Compressive Strength Concrete and Concrete Masonry units per ASTM C90

**4. INSTALLATION**

**4.1** The Concrete Screws shall be installed in strict compliance with the installation instructions published in the ITW Buildex Product Catalog.

**5. LABELING**

**5.1** Each concrete screws shall have a mark in the head identifying the manufacturer and each box of screws shall have a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

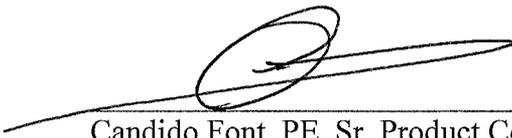
**6. BUILDING PERMIT**

**6.1** Application for Building Permit shall be accompanied by copies of the following:

**6.1.1** This Notice of Acceptance

**6.1.2** Duplicate copies of the approved drawings as identified in Section 2 of this Notice of Acceptance, clearly marked to show the hangers and angles selected for the proposed installation.

**6.1.3** Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of these products.

  
Candido Font, PE, Sr. Product Control Examiner  
Product Control Division

**ITW Buildex.**

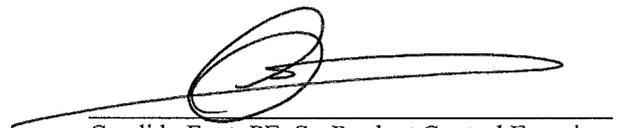
**ACCEPTANCE NO.:** 00-0118.02

**APPROVED** MAR 31 2000

**EXPIRES** : 02/20/2003

**NOTICE OF ACCEPTANCE STANDARD CONDITIONS**

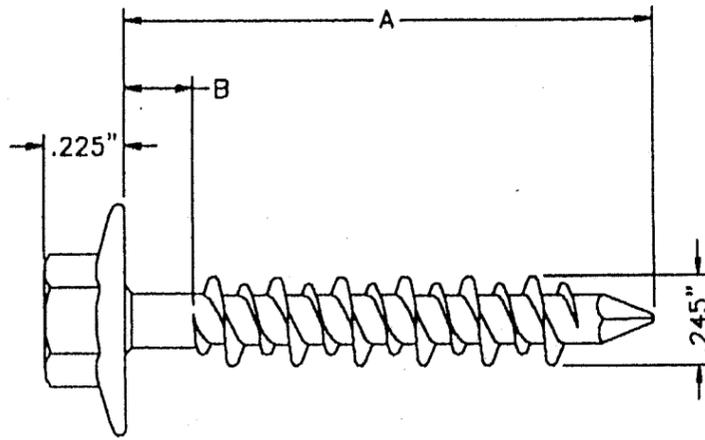
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
  - b) The product is no longer the same product (identical) as the one originally approved;
  - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
  - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a) Unsatisfactory performance of this product or process.
  - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

  
Candido Font, PE, Sr. Product Control Examiner  
Product Control Division

**END OF THIS ACCEPTANCE**

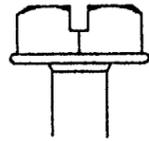
## DESCRIPTION

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 according to PA114.

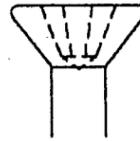


## TAPCON HEAD STYLES

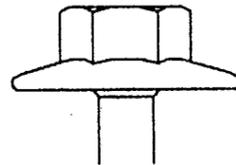
SLOTTED HEX WASHER HEAD



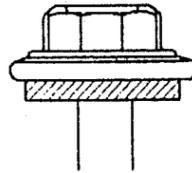
PHILLIPS FLAT HEAD



MAXI-SET HEX WASHER HEAD



SCOTS STAINLESS STEEL HEAD WITH WASHER



### NOTES:

- Anchor installation shall be made in accordance with ITW Buildex published installation instructions in the product & resource book and this notice of acceptance.
- Concrete will conform to American Concrete Institute Manual of Concrete Practice ACI 301.
- Concrete blocks shall conform to ASTM C-90.

## ALLOWABLE LOAD

DIA.	Embedment	2,000 lb./sq.in.		3,000 lb./sq.in.		4,000 lb./sq.in.		Concrete Block	
		Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
3/16"	1"	74	82	85	110	138	154	---	---
	1 1/4"	92	102	138	154	173	192	89	183
	1 3/8"	101	113	152	170	190	212	---	---
	1 1/2"	110	123	166	185	208	231	---	---
	1 5/8"	120	133	180	200	225	250	---	---
	2"	148	164	222	246	277	308	---	---

- 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 edge distance of 1 7/8", and center to center distance of 2 1/4" is required for 100% efficiency.

## ALLOWABLE LOAD

DIA.	Embedment	2,000 lb./sq.in.		3,000 lb./sq.in.		4,000 lb./sq.in.		Concrete Block	
		Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
1/4"	1"	160	166	180	250	300	312	---	---
	1 1/4"	200	208	284	312	375	390	154	265
	1 3/8"	220	229	330	343	413	429	---	---
	1 1/2"	240	249	360	374	450	468	---	---
	1 5/8"	260	270	390	406	488	507	---	---
	1 3/4"	280	291	421	437	526	546	---	---
	2"	320	333	480	500	600	624	---	---

- 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 edge distance of 2 1/2", and center to center distance of 3" is required for 100% efficiency.

FOR OFFICE USE  
 APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE March 31, 2000  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0118.02

TOLERANCES UNLESS OTHERWISE NOTED:		SIZE: <b>B</b>	REGISTERED PROFESSIONAL ENGINEER XXXXXXXXXXXXXXXXXXXX	ENGINEERING DISCIPLINE XXXXXXXXXXXXXXXXXXXX	FLORIDA REGISTRATION No. XXXXXXXXXXXXXXXXXXXX	SHEET 1/1
DRAWN: E J G	DATE: 31 JAN 2000	REV. No.	DATE	REVISION	ECN No.	© 2000
CHECKED:	APPROVED:	①	-	-	-	 Buildex Division of Ingersoll Rand Inc. 1348 West Bryn Mawr Avenue Itasca, IL 60143 630.595.3000 FAX 630.595.3049
MATERIAL:		②	-	-	-	
HEAT TREATMENT:		③	-	-	-	
CORE HARDNESS:		④	-	-	-	
FINISH:		⑤	-	-	-	
					SCALE: 2:1	DWG. No.: TCN-1000
					TITLE: DATA SHEET TAPCON MASONRY FASTENERS	