



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Elco Textron, Inc.
5110 Falcon Road
Rockford, IL 61125-7009

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

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

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

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

Your application for Notice of Acceptance (NOA) of:

Tapcon Concrete Anchor

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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time 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 by 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.: 00-1201.01
EXPIRES: 01/08/2006

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 Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 05/03/2001

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1** This renews and revises the Notice of Acceptance No. 97-0731.15, which was issued on 01/08/98. 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 **Elco Textron Tapcons** shall be fabricated and used in strict compliance with the following documents: Drawing No. 01-259, titled "Tapcon Concrete Anchors", prepared by Knezevich & Associates, Inc. dated 03/30/01 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 3320 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 by Elco Textron Construction Products.

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.

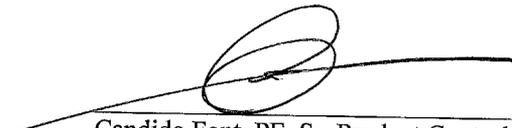
6.1.3 Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of these products.



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

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

Elco Textron TFS Construction Products Div.

ACCEPTANCE NO: 00-1201.01

APPROVED: MAY 03 2001

EXPIRES: 01/08/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS
(For File ONLY. Not part of NOA)

A DRAWINGS:

1. Drawings prepared by Knezevich & Associates, Inc. titled "Tapcon Concrete Anchors"; Drawing No. 01-259, dated 03/30/01, with no revisions, sheet 1 of 1, signed and sealed by V. J. Knezevich, PE.

B TEST:

	Laboratory No.	Test Report.	Date.	Signature
1.	MTS 258122-PS	PA 114 Apendix E	04/25 to 05/07/97	J.M. Briderstine PE.
2.	PSI 395-40144-001	ASTM D 1761	10/25/94	R. N. Sailappan, PE
3.				

C CALCULATIONS:

N/A

D MATERIAL CERTIFICATIONS:

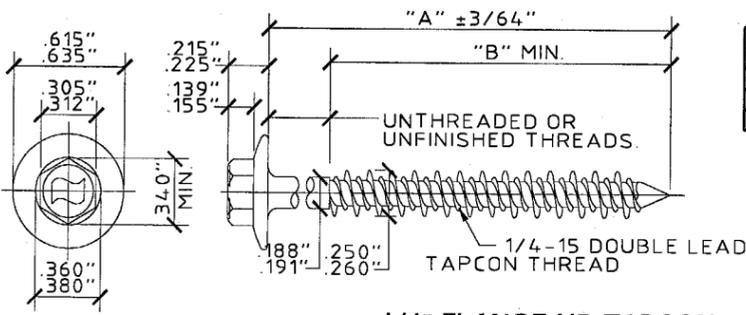
1. Elco Textron Inc. shop drawing Part No. ¼"FLT HD Tapcon, ¼" Flange HD Tapcon, ¼" Flt HD Tapcon # 12 HD & ¼" Hex HD Tapcon.

E STATEMENTS:

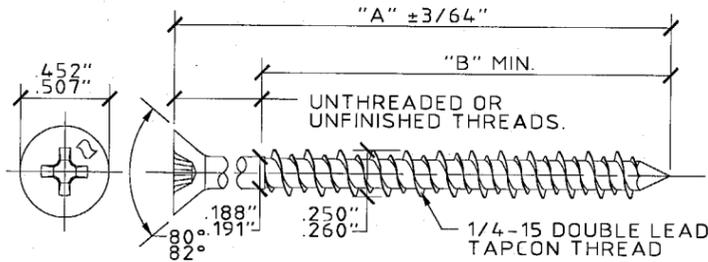
1. Code compliance letter issued by Knezevich & Associates, Inc. on 02/23/2001, signed and sealed by V. J. Knezevich, PE..
2. No change letter issued by Elco Textron on 02/13/2001, signed by M. Janusz.



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

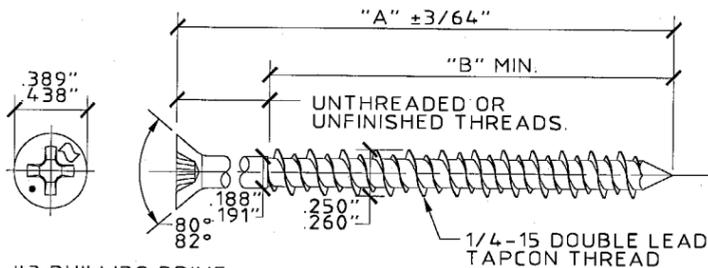


1/4" FLANGE HD TAPCON
SCALE: FULL SIZE



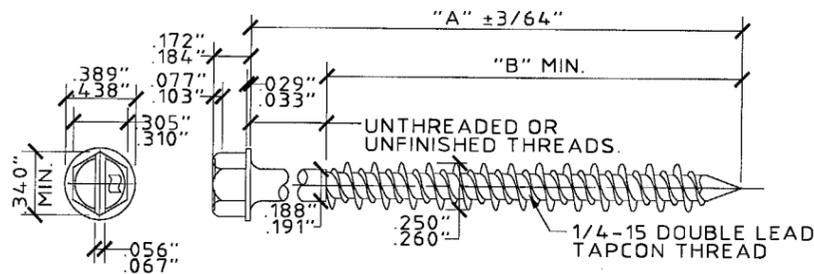
#3 PHILLIPS DRIVE
PENETRATION DEPTH .136"-.154"

1/4" FLT HD TAPCON
SCALE: FULL SIZE



#3 PHILLIPS DRIVE
PENETRATION DEPTH .116"-.139"

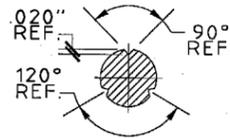
1/4" FLT HD TAPCON #12 HD
SCALE: FULL SIZE



1/4" HEX HD TAPCON
SCALE: FULL SIZE

LENGTH	"A"	"B"
1-3/4"	1.750"	1.500"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"

3 SPIRAL LONGITUDINAL "V"
NOTCHES ON HIGH THREAD DIA.
LOW THREAD MAY BE SLIGHTLY
NOTCHED ALSO.

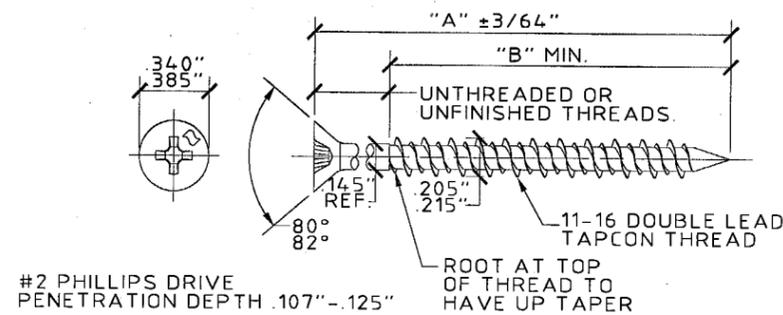


HI THREAD SECTION FOR ALL ANCHORS

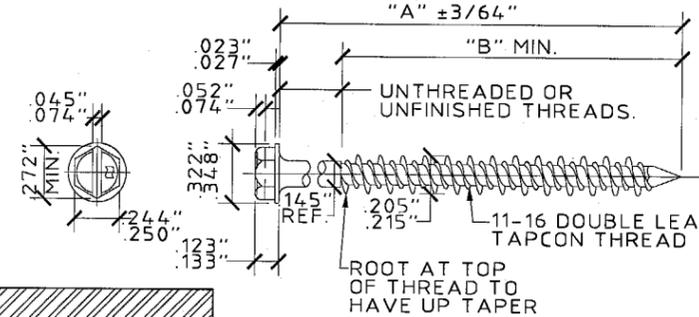
LENGTH	"A"	"B"
1-1/4"	1.250"	0.875"
1-3/4"	1.750"	1.313"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"
3-3/4"	3.750"	1.750"
4"	4.000"	1.750"
5"	5.000"	1.750"
6"	6.000"	1.750"

LENGTH	"A"	"B"
1-3/4"	1.750"	1.313"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"
3-3/4"	3.750"	1.750"

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1-3/4"	1.750"	1.500"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"
3-3/4"	3.750"	1.750"
4"	4.000"	1.750"
5"	5.000"	1.750"
6"	6.000"	1.750"



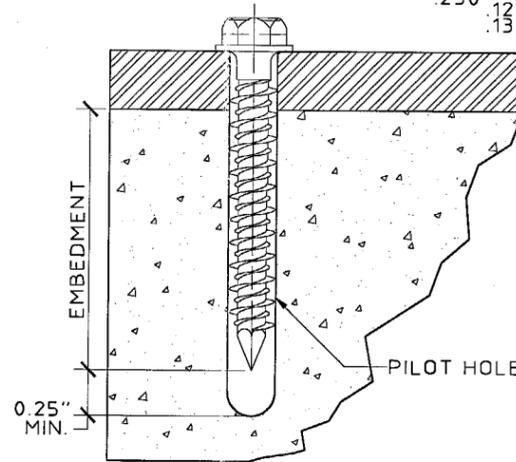
3/16" FLT HD TAPCON
SCALE: FULL SIZE



3/16" HEX HD TAPCON
SCALE: FULL SIZE

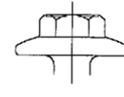
LENGTH	"A"	"B"
1-1/4"	1.250"	0.875"
1-3/4"	1.750"	1.313"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"
3-3/4"	3.750"	1.750"
4"	4.000"	1.750"

LENGTH	"A"	"B"
1-1/4"	1.250"	1.000"
1-3/4"	1.750"	1.500"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"
3-3/4"	3.750"	1.750"
4"	4.000"	1.750"



TYPICAL SECTION

SLOTTED HEX WASHER HEAD HEX FLANGE HEAD



PHILLIPS FLAT HEAD

#12 FLAT HEAD



HEAD STYLES

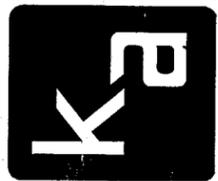
DESIGN VALUES:

ANCHOR DIAM.	EMBEDMENT DEPTH	ALLOWABLE LOADS IN POUNDS			
		3320 PSI CONCRETE		HOLLOW C. BLOCK	
IN.	IN.	TENSION	SHEAR	TENSION	SHEAR
3/16	1	120	206	-	-
	1-1/4	189	207	130	235
	1-1/2	214	256	-	-
1/4	1-3/4 *	281	269	184	-
	1	234	370	-	-
	1-1/4	285	462	218	398
1/4	1-1/2	370	465	-	-
	1-3/4 *	483	475	0	-

GENERAL NOTES:

- ELCO TAPCON IS A CORROSION RESISTANT MASONRY & CONCRETE FASTENER FINISHED WITH STALGARD COATING.
- EDGE DISTANCE FOR 100% OF ALLOWABLE LOAD IS 10 DIAMETERS.
- CENTER TO CENTER DISTANCE FOR 100% ALLOWABLE LOAD IS 12 DIAMETERS.
- 1-3/4" EMBEDMENT IN CONCRETE BLOCK IS EMBEDMENT IN WEB OF BLOCK.
- THIS ANCHOR IS IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE (S.F.B.C.) 1994 EDITION FOR MIAMI-DADE COUNTY.
- REFERENCE PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI) TEST REPORT No. 395-40144 AND MATERIAL TESTING SERVICES (MTS) TEST REPORT No. 258122-PS.
- TOLERANCES ARE AS FOLLOWS: TWO DECIMAL PLACES ±0.015", THREE DECIMAL PLACES ±0.005", AND ANGLES ±0.5°.
- ALLOWABLE LOAD = ULTIMATE LOAD DIVIDED BY 4.
- PILOT HOLE IS TO BE 1/4" LONGER THAN THE REQUIRED EMBEDMENT.
- CONCRETE SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE MANUAL OF CONCRETE PRACTICE, ACI 301 AND CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90.
- ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH ELCO TAPCON PRODUCT SELECTION & INSTALLATION INSTRUCTION PERFORMANCE & TECHNICAL DATA, AND THE NOTICE OF ACCEPTANCE.

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **MAY 03 2001**
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **00-1201.0**



KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
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WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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TAPCON CONCRETE ANCHORS
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CONSTRUCTION PRODUCTS DIVISION
5110 FALCON ROAD
ROCKFORD, ILLINOIS 61125-7009
(800) 435-7213

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No:
PE 0070983

MAR 30 2001

REVISIONS	description	date
no	date by	

date 03/30/01
scale AS NOTED drawn by AV
design by AS checked by VJK
drawing no. **01-259**
sheet 1 of 1