



**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)

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

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: Tapcon Concrete Anchors.

APPROVAL DOCUMENT: Drawing No.04-071, Sheets 1 & 2 of 2, titled "Tapcon Concrete Anchors" dated 12/14/05 with last revision on 01/12/06, 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 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 revises NOA # 02-0503.07 and consists of this page and evidence page as well as approval document mentioned above.

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

Candido F. Font
03/09/06



**NOA No: 04-0721.01
Expiration Date: January 8, 2011
Approval Date: March 9, 2006
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1 Drawing No.04-071, Sheets 1 & 2 of 2, titled "Tapcon Concrete Anchors," dated 12/14/05, with last revision 01/12/06, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.

B. TESTS

		Test Report	Date	Signature
1.	Laboratory	Addendum	06/21/02	H. M. Medina PE.
2.	Heti 01-5013	TAS 114-95	01/16/02	C. L. Thomas, PE
3.	PRI IRT 009 02 01	ASTM E488	06/01/01	H. M. Medina PE
4.	Heti 01-5013	ASTM E488	09/17/01	H. M. Medina PE
5.	Heti 01-5069	ASTM E488	08/13/03	R. D. Seda PE
6.	Heti 03-C600	ASTM C39	12/19/03	R. D. Seda PE
7.	Heti 03-C601	ASTM C39	12/02/03	R. D. Seda PE
8.	Heti 03-1127	ASTM E488	12/02/03	R. D. Seda PE
9.	Heti 03-1136	ASTM E488	12/02/03	R. D. Seda PE
10.	Heti 03-1153	ASTM E488	12/23/03	R. D. Seda PE
11.	Heti 03-1159	ASTM E488	12/02/03	R. D. Seda PE
12.	Heti 03-1161	ASTM E488	12/02/03	R. D. Seda PE
13.	Heti 03-1164	ASTM E488	12/12/03	R. D. Seda PE
14.	Heti 03-1165	ASTM E488	12/12/03	R. D. Seda PE
15.	Heti 03-1173	ASTM E488	12/12/03	R. D. Seda PE
16.	Heti 03-1175	ASTM E488	12/12/03	R. D. Seda PE
17.	Heti 03-1177	ASTM E488	12/12/03	R. D. Seda PE
18.	Heti 05-1501	ASTM E488	08/31/05	I. Ghia PE

C. CALCULATION

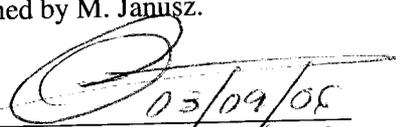
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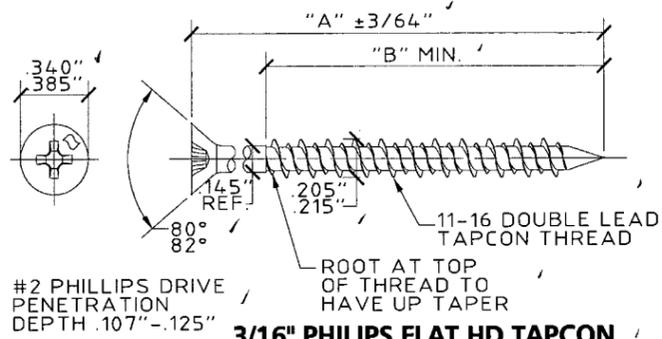
D. MATERIAL CERTIFICATIONS

1. Elco Textron Inc. shop drawing part No. ¼ FLT HD Tapcon, ¼ Flange HD Tapcon, ¼ FTL HD Tapcon # 12 HD & ¼ Hex HD Tapcon.

E. STATEMENTS

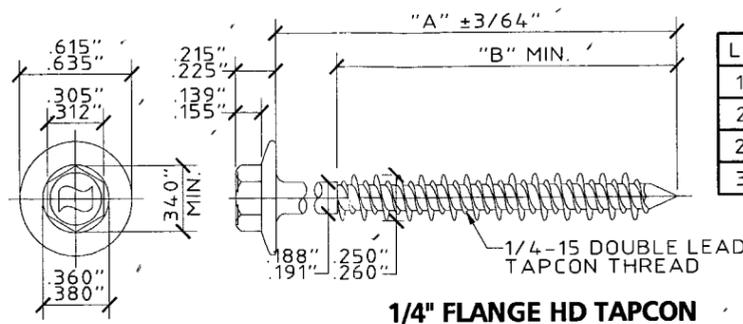
1. Code Compliance letter issued by LZA Technology on 07/07/04, signed and sealed by V.J. Knezevich, PE.
2. No interest letter issued by LZA Technology on 07/19/04 signed by J.W. Knezevich and notarized by R. Hernandez.
3. No change letter issued by Elco Textron on 02/13/01 and signed by M. Janusz.


Candido F. Font PE.
Sr. Product Control Examiner
NOA No 04-0721.01
Expiration Date: January 8, 2011
Approval Date: March 9, 2006



LENGTH	"A"	"B"
1-1/4"	1.250"	.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"

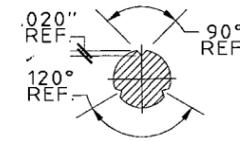
3/16" PHILIPS FLAT HD TAPCON
SCALE: FULL SIZE



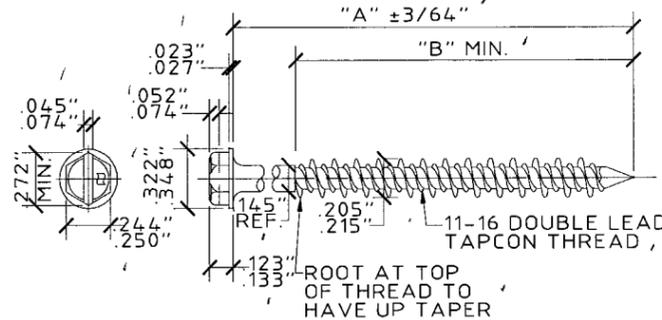
LENGTH	"A"	"B"
1-3/4"	1.750"	1.500"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"

1/4" FLANGE HD TAPCON
SCALE: FULL SIZE

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

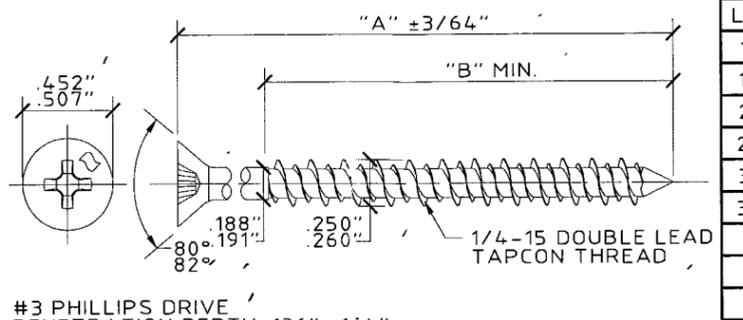


HIGH THREAD SECTION FOR ALL ANCHORS



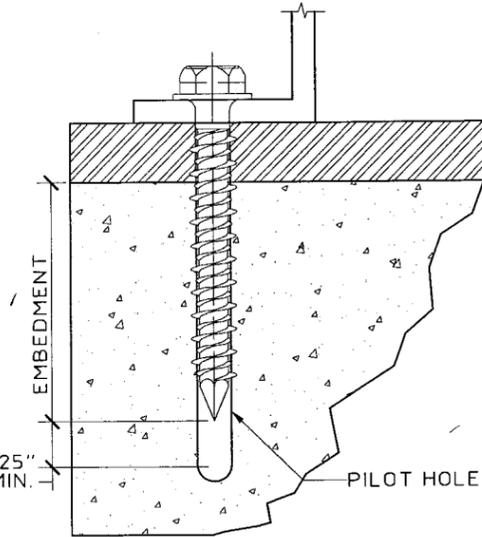
LENGTH	"A"	"B"
1-1/4"	1.250"	1.000"
1-3/4"	1.750"	1.500"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"
3-3/4"	3.750"	1.750"
4"	4.000"	1.750"

3/16" SLOTTED HEX WASHER HD TAPCON
SCALE: FULL SIZE

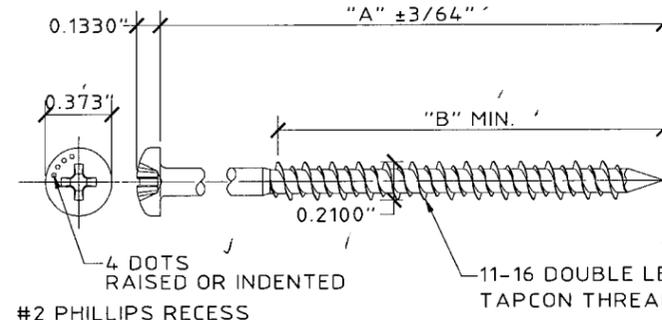


LENGTH	"A"	"B"
1-1/4"	1.250"	.875"
1-3/4"	1.750"	1.313"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	1.750"
3-3/4"	3.750"	1.750"
4"	4.000"	1.750"
5"	5.000"	1.750"
6"	6.000"	1.750"

1/4" PHILIPS FLAT HD TAPCON
SCALE: FULL SIZE

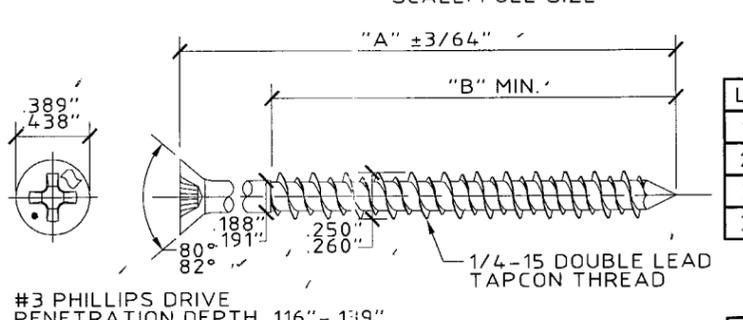


TYPICAL SECTION



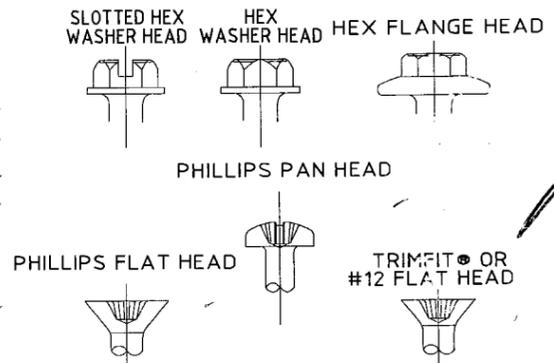
LENGTH	"A"	"B"
1-3/4"	1.750"	1.500"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	1.750"
3-1/4"	3.250"	2.000"

3/16" PHILIPS PAN HD TAPCON
SCALE: FULL SIZE



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"

1/4" TRIMFIT® TAPCON
SCALE: FULL SIZE



HEAD STYLES

GENERAL NOTES:

1. THESE APPROVAL DOCUMENTS REPRESENT ELCO TEXTRON TAPCON ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR HIGH VELOCITY HURRICANE ZONE (HVHZ) OF FLORIDA BUILDING CODE 2004.
2. TEXTRON TAPCON IS A CORROSION RESISTANT MASONRY & CONCRETE FASTENER FINISHED WITH STALGARD COATING.
3. CENTER TO CENTER ANCHOR SPACING FOR 100% ALLOWABLE LOAD IS 16 DIAMETERS. CLOSER SPACING IS NOT ACCEPTABLE.
4. REFERENCE HURRICANE ENGINEERING & TESTING INC. (HETI) TEST REPORT No. HETI-01-5013, HETI-01-5069, HETI-03-1127, HETI-03-1136, HETI-03-1173 AND HETI-05-1501.
5. ALLOWABLE LOAD SHOWN= ULTIMATE LOAD DIVIDED BY 4.
6. CONCRETE SHALL CONFORM TO ACI-318, MINIMUM STRENGTHS AS NOTED AND HOLLOW CONCRETE BLOCKS SHALL CONFORM TO BLOCKS SHALL CONFORM TO ASTM C-90.
7. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH TEXTRON PRODUCT SELECTION & INSTALLATION INSTRUCTION PERFORMANCE & TECHNICAL DATA, AND THE NOTICE OF ACCEPTANCE.
8. HEAD MARKING: TEXTRON TAPCON MASONRY FASTENERS ARE IDENTIFIED WITH EITHER THE TEXTRON LOGO (T) OR FOUR DOTS IN THE CASE OF THE PHILIPS PAN HEAD. NOTE THAT THE TRIMFIT® FASTENERS HAVE THE TEXTRON LOGO ALONG WITH 1 DOT (1/4" DIA) OR 2 DOTS (5/16" DIA).
9. ANCHOR CAPACITY AT SPECIFIC EDGE DISTANCE ARE BASED ON TEST RESULTS, EDGE DISTANCE BELOW THESE TABULATED VALUES ARE NOT ACCEPTABLE.

PROPER DRILL BITS:

PART DIA.	DRILL BIT
3/16"	5/32" DIAMETER ELCO TAPCON BIT
1/4"	3/16" DIAMETER ELCO TAPCON BIT
5/16"	1/4" DIAMETER ELCO TAPCON BIT

PRODUCT REVISED
as complying with the Florida Building Code
Adoption No. 04-0721.01
Expiration Date 01/08/11

Thornton-Tomasetti Group
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7519
Website: www.TheTTGroup.com
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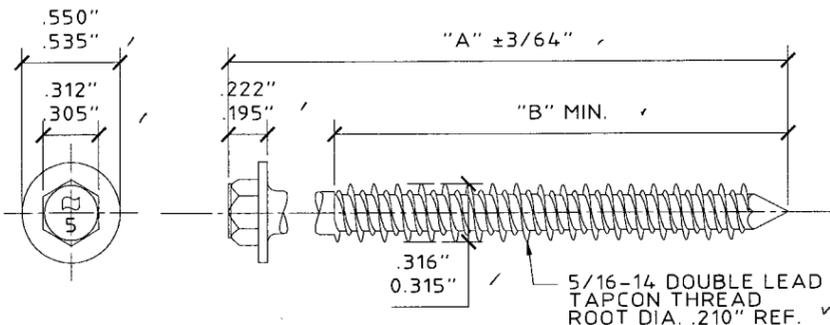
TAPCON CONCRETE ANCHORS
ELCO TEXTRON
CONSTRUCTION PRODUCTS DIVISION
5110 FALCON ROAD
ROCKFORD, ILLINOIS 61125-7009
(800) 455-7213

J.W. Knezevich
Professional Engineer
FL License No.: PE 0041961

[Signature]
JAN 12 2006

no.	date	by	description
1	01/12/06	ZL	COUNTY COMMENTS - DELETE TABLE

date 12/14/2005
scale AS NOTED drawn by MCR
design by ZL checked by JWK
drawing no. 04-071
sheet 1 of 2

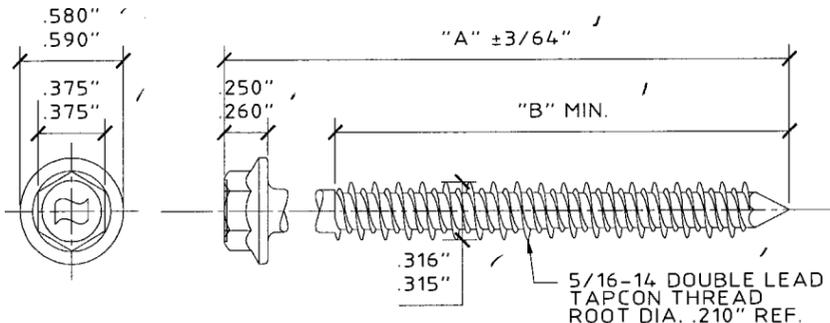


5/16" HEX WASHER HD TAPCON
SCALE: FULL SIZE

LENGTH	"A"	"B"
2"	2.000"	1.750"
2-1/4"	2.250"	2.000"
2-3/4"	2.750"	2.000"
3"	3.000"	2.000"
3-1/4"	3.250"	2.000"
4"	4.000"	2.000"

2,700 P.S.I. CONCRETE				
ANCHOR DIAMETER (IN.)	EDGE DISTANCE (IN.)	EMBED. DEPTH (IN.)	ALLOW. TENSION	ALLOW. SHEAR
3/16	1	1	105	155
	1	1-3/8	185	195
	1	1-3/4	270	195
	2-1/2	1	110	155
	2-1/2	1-3/8	185	215
	2-1/2	1-3/4	315	195
1/4	1	1	150	155
	1	1-3/8	290	265
	1	1-3/4	460	225
	2-1/2	1	200	285
	2-1/2	1-3/8	375	395
	2-1/2	1-3/4	475	445

3,500 P.S.I. CONCRETE				
ANCHOR DIAMETER (IN.)	EDGE DISTANCE (IN.)	EMBED. DEPTH (IN.)	ALLOW. TENSION	ALLOW. SHEAR
5/16	1-1/4	1	184	220
	1-1/4	1-3/4	526	331
	2-3/16	1	209	375
	2-3/16	1-3/4	603	801
	3-1/8	1	213	450
	3-1/8	1-3/4	661	851
	3-1/8	2	837	851

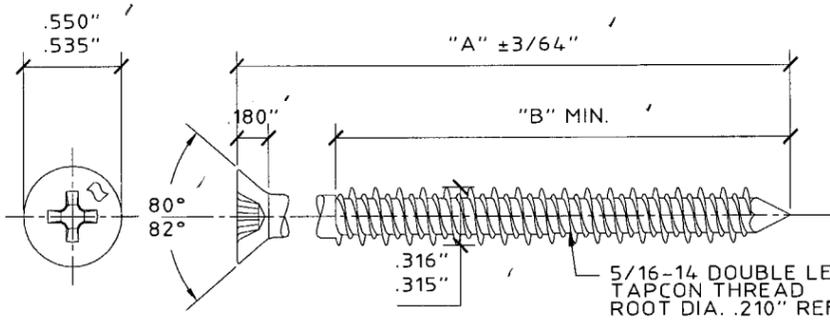


5/16" FLANGE HD TAPCON
SCALE: FULL SIZE

LENGTH	"A"	"B"
2"	2.000"	1.750"
2-1/4"	2.250"	2.000"
2-3/4"	2.750"	2.000"
3"	3.000"	2.000"
3-1/4"	3.250"	2.000"
4"	4.000"	2.000"

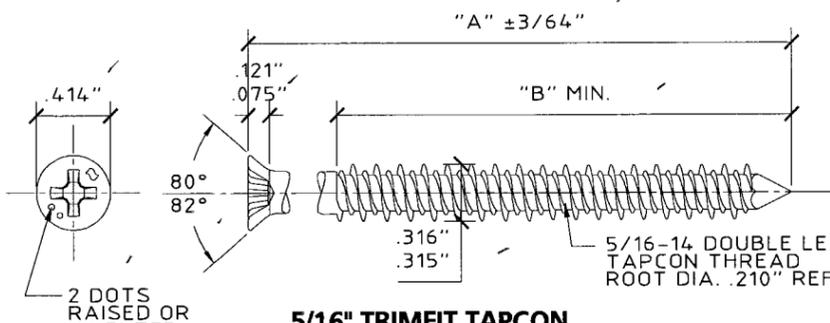
GROUT FILLED MASONRY BLOCK				
ANCHOR DIAMETER (IN.)	EDGE DISTANCE (IN.)	EMBED. DEPTH (IN.)	ALLOW. TENSION	ALLOW. SHEAR
3/16	2-1/2	1-3/4	220	170
	2-1/2	2-1/4	275	245
1/4	2-1/2	1-3/4	285	340
	2-1/2	2-1/4	515	315
5/16	2-1/2	1-3/4	285	460
	2-1/2	2-1/4	365	465

HOLLOW MASONRY BLOCK				
ANCHOR DIAMETER (IN.)	EDGE DISTANCE (IN.)	EMBED. DEPTH (IN.)	ALLOW. TENSION	ALLOW. SHEAR
3/16	1	1-1/4	105	135
	2-1/2	1-1/4	105	140
1/4	1	1-1/4	175	177
	2-1/2	1-1/4	175	370
5/16	1-9/16	1-1/4	255	177
	3-1/8	1-1/4	286	364



5/16" FLAT HD TAPCON
SCALE: FULL SIZE

LENGTH	"A"	"B"
3"	3.000"	2.000"
4"	4.000"	2.000"
5"	5.000"	2.000"
6"	6.000"	2.000"



5/16" TRIMFIT TAPCON
SCALE: FULL SIZE

LENGTH	"A"	"B"
2-1/4"	2.250"	1.750"
2-3/4"	2.750"	2.000"
3-1/4"	3.250"	2.000"

PRODUCT REVISED
as complying with the Florida Building Code
Specification No. 04-072.01
Expiration Date 01/05/11

date 12/14/2005
scale AS NOTED
design by ZL
checked by JWK
drawing no. 04-071
sheet 2 of 2

Thornton-Tomasetti Group
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Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7519
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TAPCON CONCRETE ANCHORS
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5110 FALLON ROAD
ROCKFORD, ILLINOIS 61125-7009
(800) 435-7213

J.W. Knezevich
Professional Engineer
FL License No.: PE 0041961

JAN 12 2006

no	date	by	description
1	01/12/06	ZL	COUNTY COMMENTS - DELETE TABLE

date 12/14/2005
scale AS NOTED
design by ZL
checked by JWK
drawing no. 04-071
sheet 2 of 2