



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Elco Construction Products, Div. of Infastech, LLC
1304 Kerr Drive
Decorah, IA 52101

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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: #14 ConFlex Concrete and Masonry Screw Anchor

APPROVAL DOCUMENT: Drawing No. **15-2492**, titled "Elco Conflex Concrete/Masonry Screw Anchors", sheet 1 of 1, dated 02/08/2016, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 12/21/2017, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

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

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 No. 16-0211.03** and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

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



Handwritten signature and date: 02/28/2018

NOA No: 17-1227.20
 Expiration Date: August 11, 2021
 Approval Date: March 08, 2018
 Page 1

Elco Construction Products, Div. of Infastech, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS “Submitted under NOA # 16-0211.03”

1. Drawing No. **15-2492**, titled “Elco Conflex Concrete/Masonry Screw Anchors”, sheet 1 of 1, dated 02/08/2016, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 06/28/2016.

B. TESTS “Submitted under NOA # 16-0211.03”

	<u>Test Report No.</u>	<u>Standard</u>	<u>Date</u>	<u>Signature</u>
1.	HETI-15-A1100	ASTM E488-10/ACI 355.2-07	05/22/15	Rafael E. Droz-Seda, P.E.
2.	HETI-15-A1136	ASTM E488-10/ACI 355.2-07	05/29/15	Rafael E. Droz-Seda, P.E.
3.	HETI-15-A1144	ASTM E488-10/ACI 355.2-07	06/15/15	Rafael E. Droz-Seda, P.E.
4.	HETI-15-S104	ASTM G85-11 Annex A5	05/21/15	Rafael E. Droz-Seda, P.E.
5.	HETI-15-T302	ASTM F606-14	05/21/15	Rafael E. Droz-Seda, P.E.
6.	HETI-15-C107	ASTM C39-14a	05/21/15	Rafael E. Droz-Seda, P.E.
7.	HETI-15-C109	ASTM C39-14a	05/21/15	Rafael E. Droz-Seda, P.E.
8.	HETI-15-C116	ASTM C39-14a	05/29/15	Rafael E. Droz-Seda, P.E.

C. CALCULATIONS “Submitted under NOA # 16-0211.03”

1. Anchor allowable load calculations prepared by Engineering Express, dated 02/08/2016, signed and sealed by Frank L. Bennardo, P.E.

D. MATERIAL CERTIFICATIONS

1. None.

E. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

F. STATEMENTS “Submitted under NOA # 16-0211.03”

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Engineering Express, dated 02/08/2016, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 02/08/2016, signed and sealed by Frank L. Bennardo, P.E.



02/28/2018

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No: 17-1227.20
Expiration Date: August 11, 2021
Approval Date: March 08, 2018

Elco Construction Products, Div. of Infastech, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **15-2492**, titled "Elco Conflex Concrete/Masonry Screw Anchors", sheet 1 of 1, dated 06/08/2016, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 12/21/2017.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE


1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

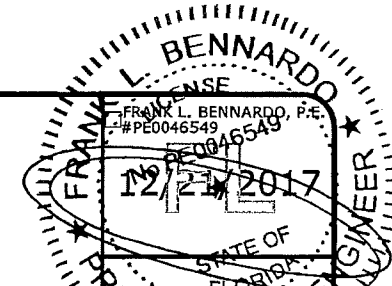
F. STATEMENTS

1. Statement letter of code conformance to 6th edition (2017) FBC, prepared by Engineering Express, dated 12/21/2017, signed and sealed by Frank L. Bennardo, P.E.


02/20/2018

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No: 17-1227.20
Expiration Date: August 11, 2021
Approval Date: March 08, 2018

ELCO CONFLEX® SCREW ANCHORS



ENGINEERING EXPRESS
CORPORATE OFFICE:
160 SW 12th AVENUE, #118
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0668
FOR BRANCH LOCATION INFO, VISIT
WWW.ENGEXP.COM

ELCO
ELCO CONSTRUCTION PRODUCTS, INFASTECH (DECORAH) LLC
1304 KERR DRIVE
DECORAH, IA 52101
CONCRETE/MASONRY SCREW ANCHORS
MIAMI-DADE NOTICE OF ACCEPTANCE
FL

DATE	DATE	DATE	DATE
2/6/2016	2/6/2016	12/20/17	

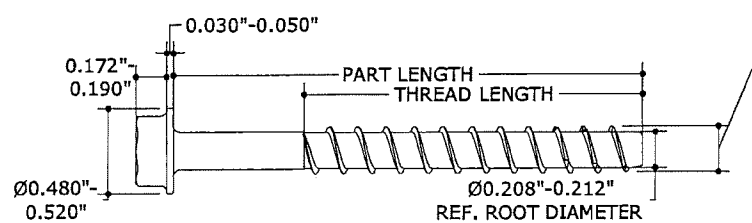
REMARKS: THIS DOCUMENT IS THE PROPERTY OF FRANK L. BENNARDO, P.E. AND SHALL NOT BE REPRODUCED IN ANY MANNER WITHOUT HIS WRITTEN PERMISSION. ANY ALTERATIONS, REVISIONS, HIGHLIGHTS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.

15-2492

SCALE: SEE DETAILS
PAGE DESCRIPTION:
1

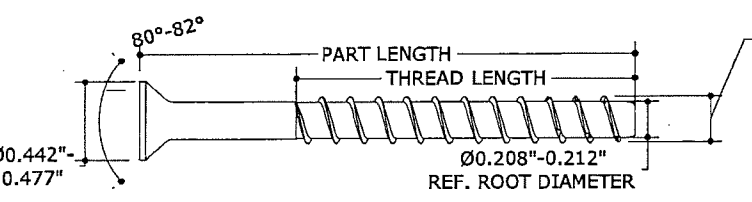
GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SIXTH EDITION (2017) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
- ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS NOTICE OF ACCEPTANCE.
- CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, WITH STRENGTH PROPERTIES AS SPECIFIED HEREIN. HOLLOW AND GROUT-FILLED CONCRETE BLOCK SHALL CONFORM TO ASTM C-90.
- ELCO CONFLEX IS A CORROSION RESISTANT MASONRY AND CONCRETE FASTENER FINISHED WITH STALGARD SUB COATING (HEX HEAD) OR STALGARD COATING (FLAT AND TRIMFIT FLAT HEAD).
- HEAD MARKINGS: ELCO CONFLEX FASTENERS ARE IDENTIFIED WITH THE ELCO LOGO SURROUNDED BY A CIRCLE.
- ALLOWABLE LOAD SHOWN=ULTIMATE LOAD DIVIDED BY 4.0 FOR CONCRETE ANCHORS AND ULTIMATE LOAD DIVIDED BY 5.0 FOR MASONRY ANCHORS. NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN PREPARATION OF THIS DOCUMENT.
- ANCHOR YIELD STRENGTH $F_y=122$ KSI, ANCHOR ULTIMATE STRENGTH $F_u=137$ KSI.
- ANCHOR CAPACITY AT SPECIFIC EDGE DISTANCE, EMBEDMENT, AND SPACING ARE BASED ON TEST RESULTS. EDGE DISTANCES, EMBEDMENT, AND SPACING BELOW THESE TABULATED VALUES ARE NOT ACCEPTABLE. INTERPOLATION BETWEEN THE SPACINGS LISTED IN THESE DESIGN TABLES IS PERMISSIBLE.
- ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS MIAMI-DADE COUNTY, FLORIDA BNC NOTICE OF ACCEPTANCE.
- DRILL HOLES AT LEAST $\frac{1}{4}$ " DEEPER THAN THE CONFLEX EMBEDMENT.
- SEE DRILL BIT TABLE TO DETERMINE APPROPRIATE DRILL BIT DIAMETER CORRESPONDING TO FASTENER DIAMETER.
- CLEAN HOLES OF DEBRIS AND DUST BEFORE INSTALLATION OF ANCHOR.
- ANCHORS SHALL NOT BE INSTALLED BEFORE THE CONCRETE HAS DEVELOPED ITS DESIGN STRENGTH.
- ANCHOR VALUES LISTED HEREIN ARE DETERMINED THROUGH TESTING REPORT DATA AND CHECKED FOR CONSISTENCY WITH EACH TEST PERFORMED.
- REFERENCE THE FOLLOWING TEST REPORTS: HURRICANE ENGINEERING & TESTING, INC. #HETI-15-A1136, HETI-15-C107, HETI-15-C116, HETI-15-C109, HETI-15-S104, HETI-15-A1144, HETI-15-A1100, HETI-15-T302



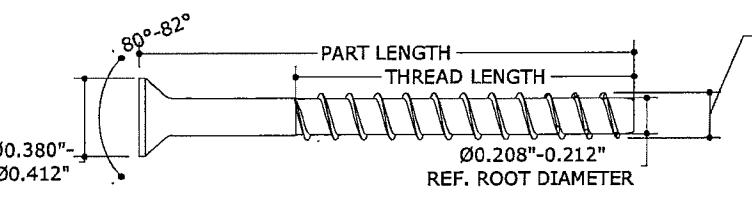
1 #14 HEX WASHER HEAD (HWH)
1 N.T.S. SIDE VIEW

NOMINAL LENGTH	PART LENGTH	APPROX THREAD LENGTH	DRILL BIT
1-3/4"	1.75"	1.50"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
2-1/4"	2.25"	2.00"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
2-3/4"	2.75"	2.00"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
3-1/4"	3.25"	2.00"	$\frac{7}{32}$ "x5 $\frac{1}{2}$ "
3-3/4"	3.75"	2.00"	$\frac{7}{32}$ "x5 $\frac{1}{2}$ "



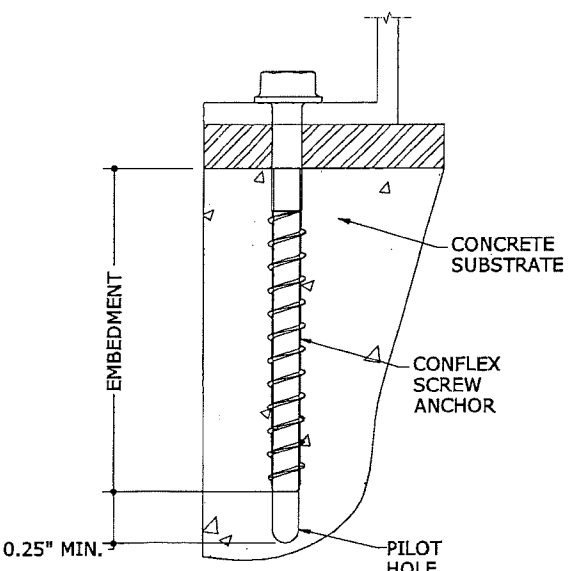
2 #14 PHILLIPS FLAT HEAD (PFH)
1 N.T.S. SIDE VIEW

NOMINAL LENGTH	PART LENGTH	APPROX THREAD LENGTH	DRILL BIT
1-3/4"	1.75"	1.50"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
2-1/4"	2.25"	2.00"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
2-3/4"	2.75"	2.00"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
3-1/4"	3.25"	2.00"	$\frac{7}{32}$ "x5 $\frac{1}{2}$ "
3-3/4"	3.75"	2.00"	$\frac{7}{32}$ "x5 $\frac{1}{2}$ "



3 #14 TRIMFIT FLAT HEAD (TFH)
1 N.T.S. SIDE VIEW

NOMINAL LENGTH	PART LENGTH	APPROX THREAD LENGTH	DRILL BIT
1-3/4"	1.75"	1.50"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
2-1/4"	2.25"	2.00"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
2-3/4"	2.75"	2.00"	$\frac{7}{32}$ "x4 $\frac{1}{2}$ "
3-1/4"	3.25"	2.00"	$\frac{7}{32}$ "x5 $\frac{1}{2}$ "
3-3/4"	3.75"	2.00"	$\frac{7}{32}$ "x5 $\frac{1}{2}$ "



PILOT HOLE SHALL BE $\frac{1}{4}$ " LONGER THAN EMBEDMENT.

5 TYPICAL SECTION
1 1'-0" = 1'-0"

#14 CONFLEX® SCREW ANCHOR ALLOWABLE LOAD CAPACITIES:

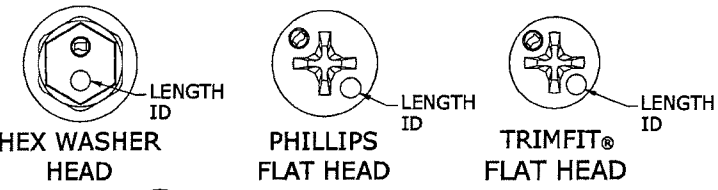
	EMBEDMENT	EDGE DISTANCE	SPACING	TENSION (LB)	SHEAR (LB)
2500 PSI CONCRETE	1"	1-1/2"	6"	192	216
		3"		197	398
	1-3/4"	1-1/2"	6"	511	276
		3"		561	454
3500 PSI CONCRETE	1"	1-1/2"	6"	301	415
		3"		429	487
	1-3/4"	1-1/2"	6"	541	541
		3"		257	544
6500 PSI CONCRETE	1"	1-1/2"	6"	626	572
		3"		541	541
	1-3/4"	1-1/2"	6"	340	541
		3"		645	645

	EMBEDMENT	EDGE DISTANCE	SPACING	TENSION (LB)	SHEAR (LB)
HOLLOW BLOCK	1"	1"	3"	110	110
			4"	158	110
		2"	4"	174	217
			6"	84	113
GROUT FILLED BLOCK	1-3/4"	1-1/2"	8"	242	192
		3"	384	407	
	2-1/4"	1-1/2"	8"	252	276
		3"	496	192	
	3"	6"	488	488	
		8"	590	488	

INDICATES TESTED VALUE NOT AVAILABLE FOR SPECIFIC CONDITION

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **17-1227.20**
Expiration Date **08/11/2021**
By *[Signature]*
Miami-Dade Product Control

LENGTH CODES (PER ICC AC193 PG A11/PG18)		
ALPHA CODE	LENGTH OF ANCHOR	ELCO PART LENGTH
A	1 1/2" < 2"	1 3/4"
B	2" < 2 1/2"	2 1/4"
C	2 1/2" < 3"	2 3/4"
D	3" < 3 1/2"	3 1/4"
E	3 1/2" < 4"	3 3/4"
F	4" < 4 1/2"	4"
G	4 1/2" < 5"	-
H	5" < 5 1/2"	5"
I	5 1/2" < 6"	-
J	6" < 6 1/2"	6"



4 HEAD STYLES
1 N.T.S.

HEAD MARKING GUIDE:
"A" - LENGTH CODE
- ELCO LOGO

V:\Project\15-2492 ConfFlex-NOA New - 2014 Florida Bldg Code-Project\WP2017 FBC Update\NOA Submittal\15-2492_e ConfFlex NOA.dwg
12/21/2017 - 1:15pm rickn