



**BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)  
BOARD AND CODE ADMINISTRATION DIVISION**

**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/building](http://www.miamidade.gov/building)

**NOTICE OF ACCEPTANCE (NOA)**

**Florida Fasteners Direct, Inc.**  
1440 Rail Head Blvd. Ste. 3  
Naples, FL 34110

**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 BNC - 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. BNC 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: Blue Tap Screw Anchors**

**APPROVAL DOCUMENT:** Drawing No. **10-081**, titled "Blue Tap Screw Anchors", Sheet 1 of 1, dated 01/28/11, with revision 1 dated 05/02/11, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit Jr., P.E., 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 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 # **10-0104.02** and consists of this page 1, evidence page E-1, as well as approval document mentioned above.

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



*[Signature]*  
05/10/11

NOA No: 11-0316.07  
Expiration Date: October 07, 2014  
Approval Date: May 19, 2011  
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Drawing No. **10-081**, titled "Blue Tap Screw Anchors", Sheet 1 of 1, dated 01/28/11, with revision 1 dated 05/02/11, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit Jr., P.E.

**B. TESTS**

	<u>Test Report No.</u>	<u>Standard</u>	<u>Date</u>	<u>Signature</u>
1.	HETI-11-A500	ASTM E488-96	01/13/11	Candido F. Font, P.E.
2.	HETI-10-A630	ASTM E488-96	01/13/11	Candido F. Font, P.E.
3.	HETI-10-A634	ASTM E488-96	01/13/11	Candido F. Font, P.E.
4.	HETI-10-C100B	ASTM C39-09a	10/20/10	Candido F. Font, P.E.
5.	HETI-10-A640	ASTM D1761-06	01/13/11	Candido F. Font, P.E.
6.	HETI-10-A638	ASTM D1761-06	01/13/11	Candido F. Font, P.E.
7.	HETI-11-T106	ASTM F606-10a	02/25/11	Candido F. Font, P.E.
8.	Test report on Tension and Shear Capacity per ASTM E 488 and Corrosion Resistance per ASTM G 85 Annex 5 and TAS 114 Appendix E of 3/16" and 1/4" Carbon Steel and 410 Stainless Steel Anchors, prepared by Stork Twin City Testing Corporation, Test Report No. <b>3299445.1</b> , dated 03/25/09, signed and sealed by Thomas A. Kolden, P.E. <i>"Submitted under NOA # 10-0104.02"</i>			

**C. CALCULATIONS**

1. Anchors allowable loads prepared by Tilteco, Inc, dated 01/28/11, signed and sealed by Walter A. Tillit Jr., P.E.

**D. MATERIAL CERTIFICATIONS**

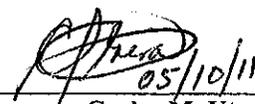
1. None.

**E. QUALITY ASSURANCE**

1. Miami-Dade Building and Neighborhood Compliance Department (BNC)

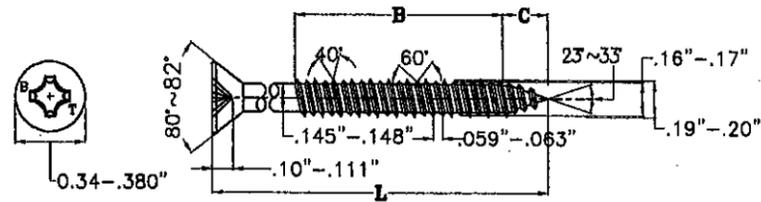
**F. STATEMENTS**

1. Statement letter of code conformance to FBC 2007, issued by Tilteco, Inc, dated 03/08/11, signed and sealed by Walter A. Tillit Jr., P.E.
2. Statement letter of no financial interest issued by Tilteco, Inc, dated 03/08/11, signed and sealed by Walter A. Tillit Jr., P.E.
3. Distributor agreement between Da Ze Screws Industries Co., LTD, Taiwan, R.O.C as manufacturer and Lodge Import USA, LLC as distributor.  
*"Submitted under NOA # 09-0617.02"*

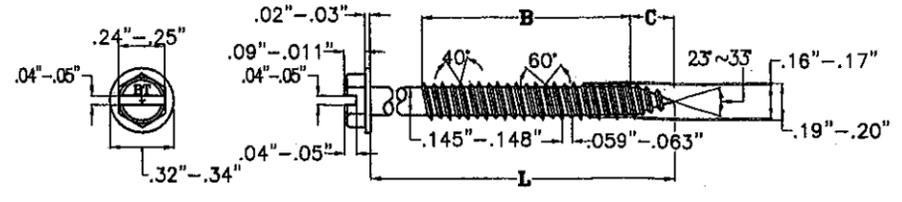


Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 11-0316.07

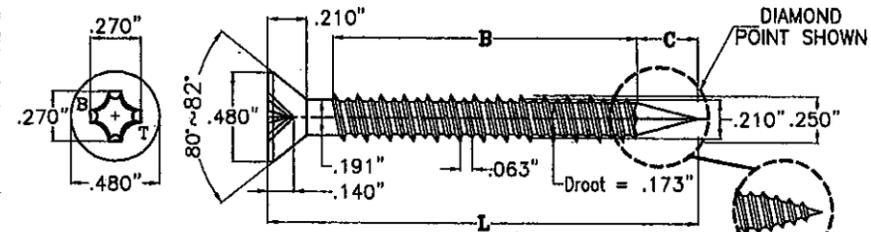
Expiration Date: October 07, 2014  
Approval Date: May 19, 2011



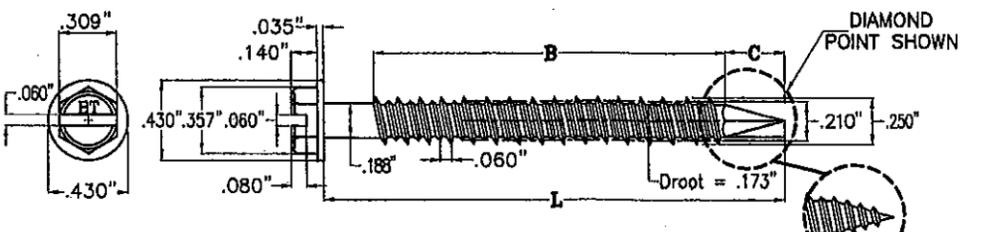
**A) 3/16" Ø FLAT HEAD CONCRETE SCREW ANCHOR (CS)**



**B) 3/16" Ø HEX HEAD CONCRETE SCREW ANCHOR (CS)**



**C) 1/4" Ø FLAT HEAD CONCRETE SCREW ANCHOR (CS)**



**D) 1/4" Ø HEX HEAD CONCRETE SCREW ANCHOR (CS)**

SCALE: 1"=1"

SCALE: 1"=1"

**GENERAL NOTES:**

- BLUE TAP CARBON STEEL SCREW ANCHORS, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE. PRODUCT MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE/BROWARD COUNTIES).
- BLUE TAP CARBON STEEL SCREW ANCHORS ARE CORROSION RESISTANT AND MAY BE INSTALLED INTO CONCRETE, CONCRETE BLOCK & WOOD:
  - ANCHORS ARE MADE OF SAE 10B22 (Fu= 171789 psi, Fy= 153683 psi) CASE HARDENED CARBON STEEL, WITH PROPERTIES PER HURRICANE ENGINEERING AND TESTING INC REPORT # HETI 11-T108.
  - CARBON STEEL ANCHORS INCLUDE 1000 HOURS RUSPERT COATING, MEETING ASTM G-85 AND TAS 114, PER STORK TWIN CITY TESTING CORPORATION LABORATORY REPORT #3299445.1.
  - HEAD MARKING: ANCHORS ARE IDENTIFIED WITH "BT" MARK.
- ALLOWABLE LOAD FOR ANCHORS SPECIFIED ON SCHEDULE FOR VARIOUS EDGE DISTANCES ARE BASED ON AVERAGE ULTIMATE LOADS DIVIDED BY A MINIMUM SAFETY FACTOR OF 4.00, PER HURRICANE ENGINEERING AND TESTING INC REPORTS # HETI-11-A500, HETI-10-A626, HETI-10-A630, HETI-10-A634, HETI-10-A638, HETI-10-A640 AND AS PER STORK TWIN CITY TESTING CORPORATION LABORATORY REPORT #3299445.1. EDGE DISTANCES SHORTER THAN TABULATED VALUES ARE NOT ACCEPTABLE. MIN. EDGE DISTANCES DO NOT INCLUDE SUBSTRATE FINISH (SEE DETAIL 1).
- SUBSTRATES WHERE ANCHOR MAY BE INSTALLED SHALL CONSIST OF:
  - CONCRETE: SHALL CONFORM TO ACI-318 WITH MINIMUM COMPRESSIVE STRENGTH AS NOTED ON SCHEDULE, AS TESTED BY HURRICANE ENGINEERING AND TESTING INC REPORTS # HETI 10-C100B, HETI 10-C104B AND HETI 11-C134.
  - HOLLOW CONCRETE BLOCK: SHALL CONFORM TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH AS NOTED ON SCHEDULE, AS TESTED BY HURRICANE ENGINEERING AND TESTING INC REPORT # HETI 11-C142
  - WOOD: SHALL CONFORM TO 2005 NDS, WITH MIN. SPECIFIC GRAVITY G=0.46 OR G=0.36 AS TESTED BY HURRICANE ENGINEERING AND TESTING INC REPORTS # HETI-10-A638 AND HETI-10-A640.
- ANCHOR INSTALLATION SHALL BE STRICTLY MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, AND TECHNICAL/SAFETY DATA. DRILL HOLE WITH 3/32" CARBIDE MASONRY BIT FOR 3/16" SCREW ANCHORS AND WITH 3/16" CARBIDE MASONRY BIT FOR 1/4" ANCHORS. DRILL HOLE 1/4" DEEPER THAN DESIRED EMBEDMENT.
- ALLOWABLE LOADS IN CONCRETE AND HOLLOW BLOCK FOR 3/16" ANCHORS ARE BASED ON A MINIMUM SPACING OF 2 1/4". CLOSER SPACING IS NOT ACCEPTABLE.
- ALLOWABLE LOADS IN CONCRETE AND HOLLOW BLOCK FOR 1/4" ANCHORS ARE BASED ON A MINIMUM SPACING OF 3". CLOSER SPACING IS NOT ACCEPTABLE. ALLOWABLE LOADS IN WOOD FOR 1/4" ANCHORS ARE BASED ON A MINIMUM SPACING OF 2". CLOSER SPACING IS NOT ACCEPTABLE.
- SEE DETAIL 1 FOR EDGE DISTANCE AND EMBEDMENT DEFINITION AND REQUIREMENTS.
- ALL DIMENSIONS ARE SUBJECT TO ± 0.02" MANUFACTURING TOLERANCE.

**ALLOWABLE LOAD FOR BLUE TAP COATED CARBON STEEL SCREW ANCHOR (3),(6) FOR A GIVEN SUBSTRATE (4)**  
VALUES ARE VALID FOR TYPES A, B, C AND D SCREW ANCHORS.

ANCHOR SIZE	MIN. REQUIRED EMBEDMENT @ SUBSTRATE (8)	MIN. EDGE DISTANCE (3 & 8)	ANCHOR TYPES A, B, C & D.													
			CONCRETE (fc=2000 psi Min.)		CONCRETE (fc=2447 psi Min.)		CONCRETE (fc=2883 psi Min.)		CONCRETE (fc=4295 psi Min.)		HOLLOW BLOCK (fc=1974 psi Min.)		WOOD (G=0.46 Min.)		WOOD (G=0.36 Min.)	
			TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR
3/16" Ø (CS)	1"	2 1/4"	125	291	---	---	---	---	---	---	128	259	---	---	---	---
	1 1/4"		187	291	---	---	---	---	---	---	---	---	---	---	---	---
	1 1/2"		228	386	---	---	---	---	---	---	---	---	---	---	---	---
1/4" Ø (CS)	1"	2 1/2"	170	263	---	---	---	---	---	---	---	---	---	---	---	---
	1 1/4"	2"	---	---	---	---	---	---	---	---	168	147	---	---	---	---
		2 1/2"	214	263	---	---	---	---	---	---	176	322	---	---	---	---
		3 3/4"	---	---	---	---	---	---	---	---	198	380	---	---	---	---
	1 1/2"	3/4"	---	---	---	---	---	---	---	---	---	---	257	---	157	---
		1"	---	---	---	---	---	---	---	---	---	---	257	199	157	133
		2 1/2"	317	436	---	---	---	---	---	---	---	---	257	199	157	133
	2.08"	1"	---	---	284	90	284	90	461	148	---	---	---	---	---	---
		1 1/2"	---	---	292	249	---	---	---	---	---	---	---	---	---	---
2 1/2"		---	---	366	351	409	371	538	453	---	---	---	---	---	---	

**A) 3/16" Ø CARBON STEEL (CS) FLAT HEAD ANCHOR**

MODEL	L	Threaded length "B"	Point Length "C"
3C32	1.25	0.82"-0.94"	0.25
3C45	1.75	1.36"-1.45"	0.25
3C57	2.25	1.68"-1.76"	0.25
3C70	2.75	1.68"-1.76"	0.25
3C82	3.25	1.68"-1.76"	0.25
3C100	4.00	1.68"-1.76"	0.25
3C125	5.00	1.68"-1.76"	0.25

**B) 3/16" Ø CARBON STEEL (CS) HEX HEAD ANCHOR**

MODEL	L	Threaded length "B"	Point Length "C"
3H32	1.25	0.81"-0.91"	0.25
3H45	1.75	1.32"-1.42"	0.25
3H57	2.25	1.68"-1.76"	0.25

**SYMBOLOLOGY**  
--- : DO NOT USE  
\* SEE GENERAL NOTE 9

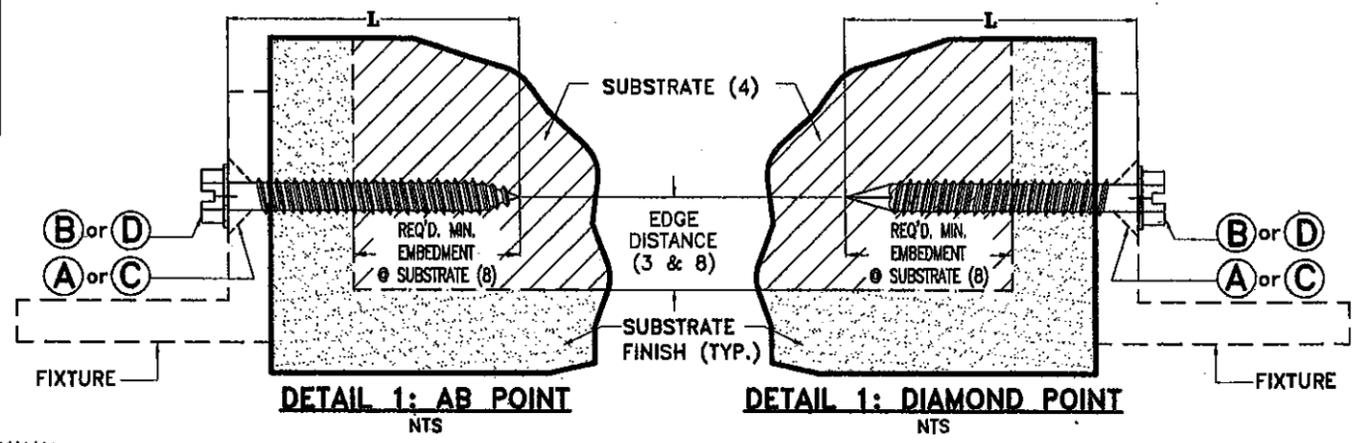
**C) 1/4" Ø CARBON STEEL (CS) FLAT HEAD ANCHOR \***

MODEL	L	Threaded length "B"	Point Length "C"
4C32	1.25	1.06"-1.18"	0.33
4C45	1.75	1.57"-1.67"	0.33
4C57	2.25	1.93"-2.01"	0.33
4C70	2.75	1.93"-2.01"	0.33
4C82	3.25	1.93"-2.01"	0.33
4C100	4.00	1.93"-2.01"	0.33
4C125	5.00	1.93"-2.01"	0.33

**D) 1/4" Ø CARBON STEEL (CS) HEX HEAD ANCHOR**

MODEL	L	Threaded length "B"	Point Length "C"
4H32	1.25	1.21"-1.31"	0.33
4H45	1.75	1.58"-1.67"	0.33
4H57	2.25	2.08"-2.14"	0.33
4H80	2.50	2.08"-2.14"	0.33
4H70	2.75	2.20"-2.28"	0.33
4H82	3.25	2.20"-2.28"	0.33
4H100	4.00	2.20"-2.28"	0.33
4H125	5.00	2.20"-2.28"	0.33

**BLUE TAP SCREW ANCHORS MODELS AND DIMENSIONS**



**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 11-0316-07  
Expiration Date 10/07/2014  
By *[Signature]*  
Miami Dade Product Control

**WALTER A. TILLIT JR.**  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
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Phone: (305)871-1530, Fax: (305)871-1531  
e-mail: tilteco@aol.com  
EB-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

**BLUE TAP SCREW ANCHORS**

**Florida Fasteners Direct**  
1440 RAIL HEAD BLVD, SUITE 3  
NAPLES, FL 34110  
PHONE: (877) 603-8151  
FAX: (239) 325-8380  
www.blue-tap.com

M.C.V. DRAWN BY  
01/28/11 DATE  
10-081 DRAWING No  
SHEET 1 OF 1

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GENERAL	05/02/2011	3		
2			4		