



**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

NOTICE OF ACCEPTANCE (NOA)

Construtech USA-dba C Tech USA, Inc.
14972 SW 104 Street Suite #112
Miami, FL 33196

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: TapTech Coated Carbon Steel Anchor Screws

APPROVAL DOCUMENT: Drawing No. **09-132**, titled "Taptech Coated Carbon Steel Anchor Screws", Sheet 1 of 1, dated 08/03/09, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval 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 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.**



[Handwritten Signature]
06/07/11

NOA No: 11-0419.04
Expiration Date: June 02, 2016
Approval Date: June 02, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **09-132**, titled "Taptech Coated Carbon Steel Anchor Screws", Sheet 1 of 1, dated 08/03/09, 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.	FTL # 6041	ASTM E488-06	02/25/10	Jorge A. Causo, P.E.
2.	FTL # 6177	ASTM D1761-06	01/25/10	Jorge A. Causo, P.E.
3.	FTL # 6211	ASTM F606-09	03/24/10	Jorge A. Causo, P.E.
4.	HETI-10-S113	ASTM G85	08/24/10	Candido F. Font, P.E.
5.	HETI-10-S114	ASTM G85	08/24/11	Candido F. Font, P.E.
6.	HETI-10-S115	ASTM G85	08/24/11	Candido F. Font, P.E.
7.	HETI-10-S116	ASTM G85	08/24/11	Candido F. Font, P.E.
8.	DEC # 09-1734	ASTM C39	12/15/09	Wissam Naamani, P.E.
9.	PSI # 03-95215-1	ASTM C140	10/21/09	Juan J. Lopez, P.E.

C. CALCULATIONS

1. Anchors allowable loads prepared by Tilteco, Inc, dated 10/29/10, signed and sealed by Walter A. Tillit Jr., P.E.

D. MATERIAL CERTIFICATIONS

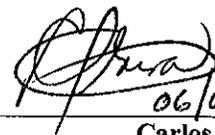
1. None.

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 11/15/10, signed and sealed by Walter A. Tillit Jr., P.E.
2. Statement letter of no financial interest issued by Tilteco, Inc, dated 11/15/10, signed and sealed by Walter A. Tillit Jr., P.E.
3. Distributor agreement dated 03/30/11.


06/07/11

Carlos M. Utrera, P.E.

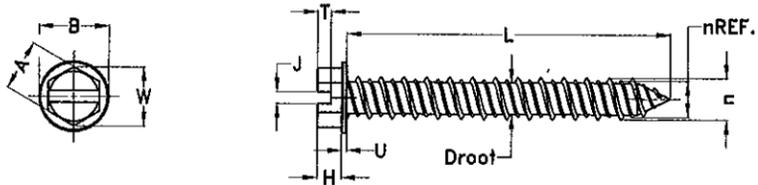
Product Control Examiner

NOA No 11-0419.04

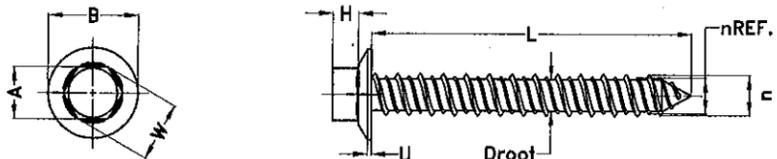
Expiration Date: June 02, 2016

Approval Date: June 02, 2011

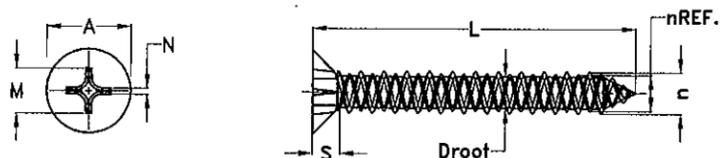
ANCHOR TYPE	L	A		W		H		B		U		J		T		n REF	n		Drooft
		MAX	MIN	MIN	MAX	MIN	MAX		MIN										
A 1/4" CHARAN TAPTECH-HEX (2)	See Schedule	0.311"	0.305"	0.340"	0.155"	0.143"	0.431"	0.397"	0.038"	0.021"	0.059"	0.050"	0.079"	0.057"	0.20"	0.255"	0.244"	0.175"	



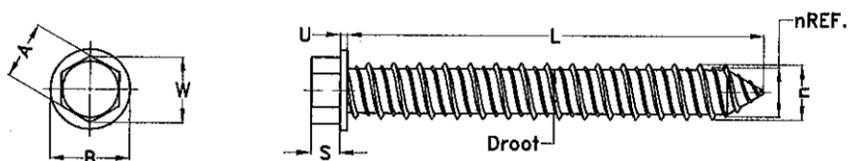
ANCHOR TYPE	L	A		W		H		B		U		n REF	n		Drooft
		MAX	MIN	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX		MIN		
B 1/4" CHA TAPTECH-MAXI (2)	See Schedule	0.311"	0.305"	0.340"	0.155"	0.138"	0.620"	0.610"	0.047"	0.035"	0.2"	0.255"	0.244"	0.175"	



ANCHOR TYPE	L	A		H REF	M		N	S		n REF	n		Drooft
		MAX	MIN		MAX	MIN		MAX	MIN		MAX	MIN	
C 1/4" CP PH TAPTECH-PHIL (2)	See Schedule	0.507"	0.484"	0.153"	0.283"	0.270"	0.035"	0.170"	0.148"	0.2"	0.255"	0.244"	0.175"



ANCHOR TYPE	L	A		W		H		B		U		n REF	n		Drooft
		MAX	MIN	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX		MIN		
D 5/16"-14 CHA CAB. #12 TAPTECH-HEX (2)	See Schedule	0.311"	0.305"	0.340"	0.155"	0.143"	0.431"	0.397"	0.038"	0.021"	0.25"	0.314"	0.305"	0.222"	

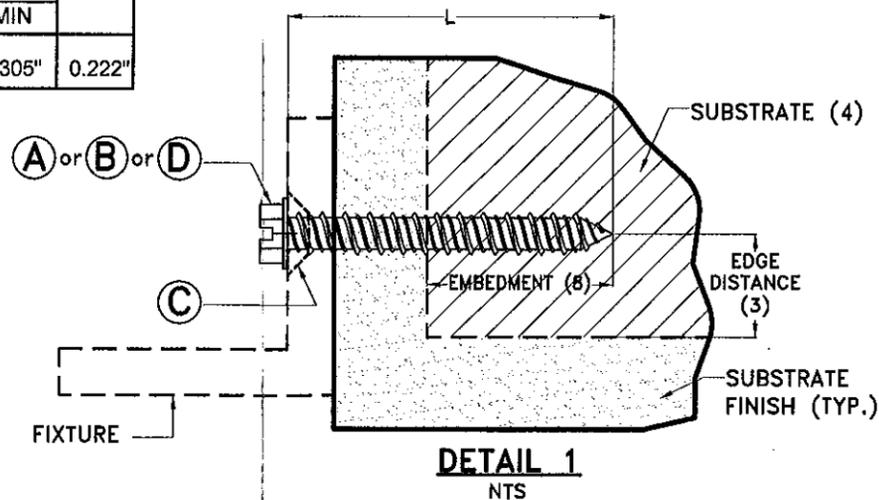


**ALLOWABLE LOAD FOR COATED CARBON STEEL ANCHOR SCREW (3),(6)
FOR A GIVEN SUBSTRATE (4)
VALUES ARE VALID FOR TYPES A, B, C & D ANCHOR SCREWS.**

ANCHOR SIZE	EMBEDMENT (6)	EDGE DISTANCE (3)	CONCRETE (fc=3181 psi Min.)		HOLLOW BLOCK (fc=1430 psi Min.)		GROUT-FILLED BLOCK (fc=2230 psi Min.)		WOOD (G=0.55 Min.)	
			TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR
1/4" Ø	1 1/4"	1"	---	---	127	152	---	---	---	---
		2 1/2"	---	---	183	268	---	---	---	---
	1 3/4"	1"	355	210	---	---	---	---	---	---
5/16" Ø	1 1/4"	2 1/2"	457	387	---	---	---	---	---	---
		3 1/2"	---	---	---	---	293	318	---	---
	1 1/2"	3/4"	---	---	---	---	---	---	204	162
5/16" Ø	1 1/4"	3 3/4"	---	---	276	381	---	---	---	---
		1 3/4"	1 9/16"	580	617	---	---	---	---	---
	1 1/2"	3/4"	---	---	---	---	---	---	307	179

GENERAL NOTES:

- COATED CARBON STEEL ANCHOR SCREWS, 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).
- COATED CARBON STEEL ANCHOR SCREWS ARE CORROSION RESISTANT AND MAY BE INSTALLED INTO CONCRETE, CONCRETE BLOCK & WOOD:
 - ANCHORS ARE MADE OF SAE 10B22 (Fu= 176446 psi, Fy= 163418 psi) CASE HARDENED CARBON STEEL, WITH PROPERTIES PER FENESTRATION TESTING LAB REPORT # 6211.
 - ANCHORS INCLUDE 1000 HOURS Xylan COATING AS MANUFACTURED BY WHITFORD CORPORATION, 47 PARK AVENUE, ELVERSON, PA 19520 AND HAS BEEN TESTED PER ASTM G 85, ANNEX 5 AND 180 CYCLES AS DETAILED IN TAS 114, APPENDIX E, BY HURRICANE ENGINEERING & TESTING INC PER REPORTS # HETI-10-S113, HETI-10-S114, HETI-10-S115 & HETI-10-S116.
 - HEAD MARKING: ANCHORS ARE IDENTIFIED WITH "CT" 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 FENESTRATION TESTING LAB REPORTS # 6041 & 6177. EDGE DISTANCE SHORTER THAN TABULATED VALUES ARE NOT ACCEPTABLE. 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 DYNATECH ENGINEERING CORP. LAB REPORT # 09-1734.
 - HOLLOW CONCRETE BLOCK: SHALL CONFORM TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH AS NOTED ON SCHEDULE, AS TESTED BY PROFESSIONAL SERVICE INDUSTRIES, INC REPORT # 03-95215-1.
 - GROUT-FILLED CONCRETE BLOCK: SHALL CONFORM TO ASTM C 476 WITH MINIMUM COMPRESSIVE STRENGTH AS NOTED ON SCHEDULE, AS TESTED BY DYNATECH ENGINEERING CORP. LAB REPORT # 09-1734.
 - WOOD: SHALL CONFORM TO 2005 NDS, WITH SPECIFIC GRAVITY G=0.55 (SOUTHERN PINE #2) AS TESTED BY FENESTRATION TESTING LAB REPORT # 6177.
- ANCHOR INSTALLATION SHALL BE STRICTLY MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, AND TECHNICAL/SAFETY DATA. DRILL HOLE WITH 3/16"Ø CARBIDE MASONRY BIT FOR 1/4"Ø SCREW ANCHORS AND WITH 1/4"Ø CARBIDE MASONRY BIT FOR 5/16"Ø ANCHORS.
- ALLOWABLE LOADS FOR 1/4"Ø ANCHORS ARE BASED ON A MINIMUM SPACING OF 3". CLOSER SPACING IS NOT ACCEPTABLE.
- ALLOWABLE LOADS FOR 5/16"Ø ANCHORS ARE BASED ON A MINIMUM SPACING OF 3 3/4". CLOSER SPACING IS NOT ACCEPTABLE.
- SEE DETAIL 1 FOR EMBEDMENT DEFINITION AND REQUIREMENTS.



ANCHOR LENGTH "L" SCHEDULE

ANCHOR TYPE	L = Length
A	1 1/4", 1 3/4", 2 1/4", 2 3/4", 3 1/4", 3 3/4", 4", 5" & 6"
B	1 3/4", 2 1/4", 2 3/4" & 3 1/4"
C	1 1/4", 1 3/4", 2 1/4", 2 3/4", 3 1/4", 3 3/4", 4", 5" & 6"
D	2 1/4" & 2 3/4"

Approved as complying with the Florida Building Code
Date 06/02/2011
NOA# 11-0419-04
Miami Dade Product Control
By [Signature]
MIAMI-DADE COUNTY

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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

©2010 TILTECO, INC

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33168
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilliteco@aol.com
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**TAPTECH®
COATED CARBON STEEL ANCHOR SCREWS**

CONSTRUTECH USA d/b/a CTECH USA, INC.
5519 NW 72nd AVENUE
MIAMI, FLORIDA 33166,
DISTRIBUTOR FOR INDUSTRIAS CATO S.A.,
CARRERA 5 NORTE 38-61 CALI, COLOMBIA, SOUTH AMERICA
PHONE: (305)387-8985 FAX: (786)879-7494

M.C.V.
DRAWN BY

08/03/09
DATE

09-132
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	2	-	-
2	-	-	4	-	-