

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)

DEWALT 701 East Joppa Road Towson, MD 21286

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 are 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: 1/4"Crete-Flex SS4, 1/4" Ultracon SS4 and 1/4" Aggre-Gator 300 Concrete and Masonry Screw Anchor

APPROVAL DOCUMENT: Drawing No. **23-62854**, titled "1/4"Crete-Flex, Ultracon SS4 & Aggre-Gator Concrete and Masonry Anchors", sheet 1 through 3 of 3, dated 02/18/2019 with latest revision date February 15, 2024, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, 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/container of the smallest quantity shall bear a label with the manufacturer's name or logo, city, state, model/series 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 # 23-0303.084 and consists of this page 1, evidence pages E-1, E-2, E-3, E-4, E-5 and E-6, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

Ishag I. Chand

MIAMI-DADE COUNTY
APPROVED

NOA No: 24-0117.11 Expiration Date: April 14, 2028 Approval Date: February 29, 2024

Page 1

- 1.1 Evidence submitted under 1/4" Crete-Flex® SS4 Concrete and Masonry Anchors NOA
- A. DRAWINGS "Submitted under NOA # 17-1227.18"
 - 1. Drawing No. 14-1818, titled "1/4" Crete-Flex® SS4 Concrete and Masonry Anchors", sheet 1 of 1, dated 04/03/2008, with last revision dated 12/20/2017, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.
- B. TESTS "Submitted under NOA # 11-0428.01"

	Test Report No.	Standard	Date	Signature				
1.	HETI-08-A262	ASTM E488-96	03/17/08	Candido F. Font, P.E.				
2.	HETI-08-A264	ASTM E488-96	03/17/08	Candido F. Font, P.E.				
3.	HETI-08-A279	ASTM E488-96	03/18/08	Candido F. Font, P.E.				
4.	HETI-08-A281	ASTM E488-96	03/18/08	Candido F. Font, P.E.				
5.	HETI-08-T14	ASTM E8-01	08/05/08	Candido F. Font, P.E.				
6.	HETI-08-C101B	ASTM C39-03	03/25/08	Candido F. Font, P.E.				
	"Submitted under NOA # 99-1227.13"							
1.	CTC 99-008	ASTM E488	02/14/98	G. Dotzler, P.E.				
2.	CTC 98-039	ASTM E488	09/12/98	G. Dotzler, P.E.				
3.	HETI 98-3023	ASTM E488	06/18/98	H. M. Medina, P.E.				

C. CALCULATIONS

1. None.

D. MATERIAL CERTIFICATIONS

1. None.

E. QUALITY ASSURANCE

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

F. STATEMENTS "Submitted under NOA # 17-1227.18"

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.

Ishay I. Chanle

1.2 Evidence submitted under Aggre-Gator 300 Series Stainless Steel Concrete and Masonry Anchor NOA

A. DRAWINGS "Submitted under NOA # 17-1227.19"

1. Drawing No. 14-1820, titled "Aggre-Gator Fasteners 300 Series Stainless Steel Bi-Metal Concrete & Masonry Screw", sheet 1 of 1, dated 09/09/2013, with last revision dated 12/20/2017, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS "Submitted under NOA # 08-0813.06"

	Test Report	Standard	Date	Signature
1.	HETI-08-A242	ASTM E488	02/28/08	Candido F. Font, P.E.
2.	HETI-08-A248	ASTM E488	02/28/08	Candido F. Font, P.E.
3.	HETI-08-A236	ASTM E488	02/28/08	Candido F. Font, P.E.
4.	HETI-08-A230	ASTM E488	02/28/08	Candido F. Font, P.E.
5.	HETI-08-A260	ASTM E488	02/28/08	Candido F. Font, P.E.
6.	HETI-08-A275	ASTM E488	03/17/08	Candido F. Font, P.E.
7.	HETI-08-A277	ASTM E488	03/17/08	Candido F. Font, P.E.
8.	HETI-08-A222	ASTM E488	02/28/08	Candido F. Font, P.E.
9.	HETI-08-A226	ASTM E488	02/28/08	Candido F. Font, P.E.
10.	HETI-08-C102A	ASTM C39	03/25/08	Candido F. Font, P.E.
11.	HETI-08-C101A	ASTM C39	03/25/08	Candido F. Font, P.E.
12.	HETI-08-C100A	ASTM C39	03/25/08	Candido F. Font, P.E.
13.	STTS 08001	TAS 114, App. E	05/25/08	Mark Mosbat, P.E.
14.	STTS 08003	TAS 114, App. E	06/21/08	Mark Mosbat, P.E.

C. CALCULATIONS "Submitted under NOA # 13-0924.02"

1. Anchor allowable load capacities calculation prepared by Engineering Express, dated 09/11/2013, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS "Submitted under NOA # 17-1227.19"

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.

Ishag I. Chanda

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1.3 Evidence submitted under Ultracon® SS4 410 Series Stainless Steel Concrete and Masonry Screw Anchor NOA

A. DRAWINGS "Submitted under NOA # 17-1227.23"

Drawing No. **14-1819**, titled "Elco Ultracon® SS4 410 Series Stainless Steel Concrete & Masonry Screw", sheet 1 of 1, dated 08/23/2013, with last revision dated 12/20/2017, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS "Submitted under NOA # 13-1205.05"

	Test Report	Standard	Date	Signature
1.	HETI-11-A650	ASTM E488	06/11/13	Rafael E. Droz-Seda, P.E.
2.	HETI-11-A666	ASTM E488	06/11/13	Rafael E. Droz-Seda, P.E.
3.	HETI-11-A674	ASTM E488	06/11/13	Rafael E. Droz-Seda, P.E.
4.	HETI-11-C162	ASTM C39	10/17/11	Rafael E. Droz-Seda, P.E.
5.	HETI-11-C163	ASTM C39	12/12/11	Rafael E. Droz-Seda, P.E.
6.	HETI-11-C164	ASTM C39	10/19/11	Rafael E. Droz-Seda, P.E.
7.	HETI-11-S100	ASTM G85	12/30/11	Rafael E. Droz-Seda, P.E.
8.	HETI-12-T100	ASTM F606	01/24/12	Rafael E. Droz-Seda, P.E.
9.	HETI-12-T101	ASTM F606	01/24/12	Rafael E. Droz-Seda, P.E.

C. CALCULATIONS "Submitted under NOA # 13-1205.05"

1. Anchor allowable load capacities calculation prepared by Engineering Express, dated 10/02/2013, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS "Submitted under NOA # 18-1226.08"

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.

Ishag I. Chanle

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2. Evidence submitted under NOA#19-0619.01

A. DRAWINGS

1. Drawing No. 19-7458a, titled "1/4" Crete-Flex, Ultracon SS4 & Aggre-Gator Concrete and Masonry Anchors", sheet 1 through 3 of 3, dated 02/18/2019, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 06/11/2019.

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. Drawing No. 19-7458a statement of code conformance to 6th edition (2017) FBC, prepared by Engineering Express, dated 02/18/2019, signed and sealed by Frank L. Bennardo, P.E. on 06/11/2019.
- 2. Statement letter of no financial interest issued by Engineering Express, dated 05/02/2019, signed and sealed by Frank L. Bennardo, P.E.
- **3.** Agreement for the sale and purchase of Infastech Limited of Asia Trading Holdings Limited and Black & Decker Global Holdings S.A R.L. and Stanley Black & Decker, Inc.
- 4. Certificate of merger of Powers Fasteners, Inc. into Black & Decker (U.S.) Inc.
- 5. Dewalt Industrial Tool Co. fictitious name registration owned by Black & Decker (U.S.) Inc.

Ishaq I. Chanda

DEWALT

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 21-0201.08

A. DRAWINGS

1. Drawing No. 20-21685, titled "1/4"Crete-Flex, Ultracon SS4 & Aggre-Gator Concrete and Masonry Anchors", sheet 1 through 3 of 3, dated 02/18/2019 with latest revision date 10/20/2020, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. **OUALITY ASSURANCE**

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

- 1. Statement of code conformance to the 7th edition (2020) of the FBC, prepared by Engineering Express, dated 03/28/2023, signed and sealed by Frank L. Bennardo, P.E.
- 2. Drawing No. 20-21685 statement of code conformance to 7th edition (2020) FBC, prepared by Engineering Express, dated 01/05/2021, signed and sealed by Frank L. Bennardo, P.E.
- 3. Statement letter of no financial interest issued by Engineering Express, dated 01/05/2021, signed and sealed by Frank L. Bennardo, P.E.

Ishay I. Chanle

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New evidence submitted

A. DRAWINGS

- 1. Technical Evaluation Report No. 23-62854, titled "DeWalt Ultracon and Ultracon+ Concrete and Masonry Screw Anchor", sheets 1 through 6 of 6, dated February 15, 2024, prepared by Engineering Express, signed and sealed by Richard Neet, P.E.
- B. TESTS (submitted under previous approval)
 - 1. None.
- C. CALCULATIONS (submitted under previous approval)
 - 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 8th edition (2023) FBC, prepared by Engineering Express, dated 01/11/2024, signed and sealed by Richard Neet, P.E.
- 2. Statement letter of code conformance to 7th edition (2020) FBC, prepared by Engineering Express, dated 10/19/2020, signed and sealed by Richard Neet, P.E.
- 3. Statement letter of no financial interest issued by Engineering Express, dated 10/19/2020, signed and sealed by Richard Neet, P.E.

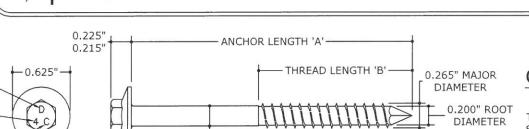
G. OTHER

1. This NOA revises NOA # 23-0330.04, updated to FBC2023, expiring 01/14/28.

Ishaq I. Chanle

1/4" CRETE-FLEX® SS4 MASONRY SCREWS

#14-10 SPECIAL THREAD



DEWALT LOGO: Part Thread Length 410 SS code* length length DESIGNATION 1 3/4 1.625 LENGTH 2 1/4 1.750 RANGE CODE · 2 3/4 1.750

HEX FLANGE HEAD (HFH)

0.305"

Length code*	length	length
code	length	length
	1 1/4"	1
А	1 3/4"	1.500
В	2 1/4"	1.750
С	2 3/4"	1.750
D	3 1/4"	1.750
Е	3 3/4	1.750
F	4"	1.750
G	5"	1.750
Н	6"	1.750

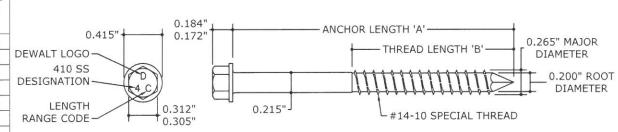
Dort

LENGTH RANGE CODE 7 0.480" 410 SS DESIGNATION	0.170" 0.140"	THREAD LENGTH 'B'	0.265" MAJOR DIAMETER 0.200" ROOT DIAMETER
DEWA	LT LOGO	#14-10 SPECIAL THRE	AD

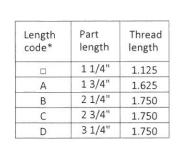
0.215"-

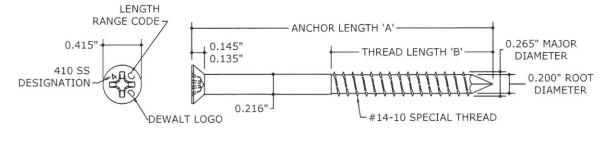
PHILLIPS FLAT HEAD (PFH)

Length code*	Part length	Thread length
	1 1/4"	1.125
Α	1 3/4"	1.625
В	2 1/4"	1.750
С	2 3/4"	1.750
D	3 1/4"	1.750
Е	3 3/4	1.750
F	4"	1.750
G	5"	1.750
Н	6"	1.750



HEX WASHER HEAD (HWH)





GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND THE FOLLOWING STANDARDS: ASTM E488 & TAS 114. THIS PRODUCT IS INTENDED FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.

2. ANCHORS ARE MANUFACTURED FROM 410 STAINLESS STEEL AND SHALL HAVE A CORROSION-RESISTANT SILVER-COLORED STALGARD COATING.

3. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS APPROVAL.

4. CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, WITH STRENGTH PROPERTIES AS SPECIFIED HEREIN. HOLLOW CONCRETE BLOCK SHALL CONFORM TO ASTM C-90.

5. ANCHORS SHALL NOT BE INSTALLED INTO CRACKED CONCRETE AS DEFINED I

6. ALLOWABLE LOADS TO 3350 PSI MINIMUM CONCRETE SUBSTRATE ARE BASED ON THE ULTIMATE LOADS DIVIDED BY 4. ALLOWABLE LOADS TO ASTM C90 CONCRETE BLOCK ARE BASED ON THE ULTIMATE LOADS DIVIDED BY 5.

7. PILOT HOLES SHALL BE DRILLED USING A 7/32" MASONRY DRILL BIT, AND SHALL BE A MINIMUM 1/4" DEEPER THAN THE REQUIRED EMBEDMENT DEPTH.

8. ANCHORS NOTED HEREIN HAVE A TENSILE YIELD STRENGTH OF Fy = 127.4 ksi AND A TENSILE ULTIMATE STRENGTH OF Fu = 189.7 ksi.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. <u>24-0117.11</u>

Expiration Date 04/14/2028

Miami-Dade Product Control

RICHARD NEET, P.E. PE# 86488 CA# 9885

Ishag 1. Chands

ALLOWABLE ANCHOR CAPACITIES:

	EMBEDMENT	EDGE DISTANCE	SPACING	TENSION	SHEAR
0.00		1"	6" O.C.	150 LB	125 LB
	1"	1-3/4"	6" O.C.	165 LB	215 LB
		2-1/2"	6" O.C.	190 LB	265 LB
Σ			1-1/2" O.C.	320 LB	
E M		1"	3" O.C.	388 LB	178 LB
MIN	1 2/4"		6" O.C.	390 LB	310 LB
CONCRETE 3350 PSI MINIMUM	1-3/4"	1-3/4"	6" O.C.	525 LB	450 LB
CC 50 F		2-1/2"	3" O.C.	314 LB	467 LB
33			6" O.C.	625 LB	645 LB
	2"	1"	6" O.C.	390 LB	310 LB
		1-3/4"	6" O.C.	525 LB	450 LB
		2-1/2"	6" O.C.	680 LB	645 LB
CONCRETE BLOCK	1-1/4"	1"	6" O.C.	156 LB	84 LB
		1-3/4"	6" O.C.	232 LB	264 LB
			1-1/2" O.C.	101 LB	213 LB
		2-1/2"	3" O.C.	101 LB	247 LB
ONC			6" O.C.	244 LB	264 LB
00	1-5/8"	1"	6" O.C.	248 LB	108 LB

* LINEAR INTERPOLATION MAY BE PERFORMED FOR ANCHOR CAPACITIES BETWEEN THE ANCHOR SPACINGS LISTED ABOVE.

FEBRUARY 15, 2024

23-62854

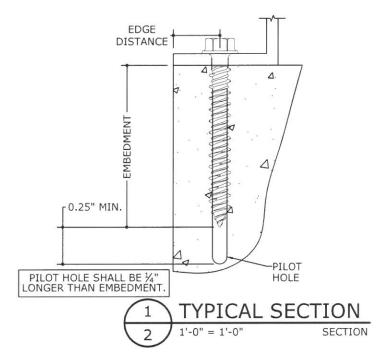
SCALE: NTS UNLESS NOTE



PRODUCT REVISED as complying with the Florida Building Code NOA-No.

24-0117.11 Expiration Date 04/14/2028

Ishag 1. Chands Miami-Dade Product Control



ULTRACON SS4 THREAD LENGTHS:

	Length code*	Part length	Thread length
Ī		1 1/4"	1 1/8"
Ī	Α	1 3/4"	1 5/8"
Ī	В	2 1/4"	1 7/8"
Ī	С	2 3/4"	1 7/8"
Ī	D	3 1/4"	1 7/8"
Ī	E	3 3/4	1 7/8"
Ī	F	4"	1 7/8"

*LENGTH CODE IS MARKED ON TOP OF FASTENER HEAD, SEE ILLUSTRATION BELOW

DRIVE AND HEAD DIMENSIONS:

DRIVE/HEAD STYLE	DRIVE	HEAD DIAMETER
HEX WASHER HEAD (HWH)	5/16" HEX (AF)	0.415" NOM.
PHILLIPS FLAT HEAD (PFH)	#3 PHILLIPS	0.415" NOM.

THREAD AND SHANK DIMENSIONS:

FASTENER DIMENSION	DIAMETER
HIGH THREAD DIAMETER	0.257" NOM.
LOW THREAD DIAMETER	0.209" NOM.
MINOR DIAMETER (THREAD ROOT)	0.174" NOM.
UNTHREADED SECTION DIAMETER	0.193"

ULTRACON® SS4

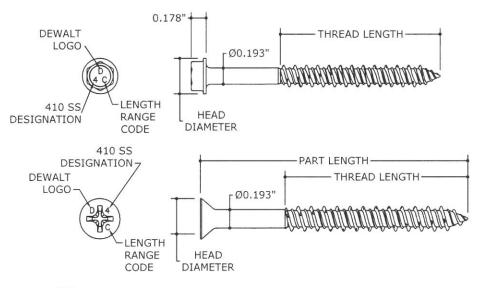
410 SERIES STAINLESS STEEL **CONCRETE & MASONRY SCREW**

1/4"Ø ULTRACON SS4 ALLOWABLE LOAD CAPACITIES:

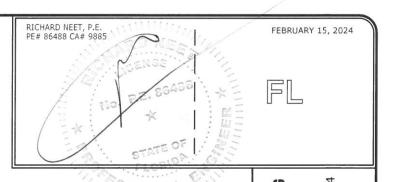
	EDGE DISTANCE	SPACING	EMBEDMENT	TENSION (LB)	SHEAR (LB)
	1"	1-1/2"	1-1/4"	106	44
HOLLOW BLOCK	1	3"	1-1/4"	124	72
HOLLOW BLOCK	2-1/2"	1-1/2"	1-1/4"	106	89
	2-1/2	3"	1-1/4"	124	123
		1-1/2"	1"	91	71
	4.0	1-1/2	1-3/4"	144	103
	1"	3"	1"	163	74
CONCRETE (2897 PSI MIN.)			1-3/4"	328	136
	2-1/2"	1-1/2"	1"	191	194
			1-3/4"	339	505
		3"	1"	236	263
			1-3/4"	403	584
	1"	1-1/2"	1-1/4"	137	56
			2"	218	56
		3"	1-1/4"	190	83
00017 5711 50 01 001			2"	292	83
GROUT FILLED BLOCK		1 1/2"	1-1/4"	205	91
	2 1/2"	1-1/2"	2"	218	180
	2-1/2"	2.11	1-1/4"	212	200
		3"	2"	386	302

NOTE:

- HOLLOW BLOCK SHALL CONFORM TO ASTM C-90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- GROUT FILLED BLOCK SHALL CONFORM TO ASTM C-90 WITH A MINIMUM BLOCK COMPRESSIVE STRENGTH OF 2000 PSI AND MINIMUM GROUT COMPRESSIVE STRENGTH OF
- ALLOWABLE LOAD CAPACITIES LISTED HEREIN ARE NOT VALID FOR CRACKED CONCRETE SUBSTRATES AS DETAILED IN ACI 355.2.



/4"Ø ULTRACON SS4 SCREW



GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023)

FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY
HURRICANE ZONE, AND THE FOLLOWING STANDARDS:
ASTM E488, ASTM C39, TAS 114, ASTM G85.
2. ULTRACON SS4 SCREW ANCHORS SHALL BE 410
SERIES STAINLESS STEEL WITH A SILVER STALGARD
CORROSION RESISTANT COATING, ANCHOR YIELD
STRENGTH Fy=164 KSI, ANCHOR ULTIMATE STRENGTH

3. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS APPROVAL. 4. PILOT HOLES FOR ANCHORS TESTED WERE MADE

WITH A $\frac{3}{16}$ " DRILL BIT WITH A DIAMETER OF 0.206"Ø (+0.000/-0.008).

5. ALLOWABLE LOADS SHOWN HEREIN HAVE BEEN CALCULATED DIRECTLY FROM THE TEST REPORTS REFERENCED BELOW PER THE FOLLOWING:

ULTIMATE LOAD DIVIDED BY 4.0 FOR SOLID NON-CRACKED CONCRETE SUBSTRATES. ULTIMATE LOAD DIVIDED BY 5.0 FOR HOLLOW

BLOCK & GROUT FILLED BLOCK SUBSTRATES. NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN PREPARATION OF THIS DOCUMENT.

CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, WITH STRENGTH PROPERTIES AS SPECIFIED HEREÍN. HOLLOW AND GROUT-FILLED CONCRETE BLOCK SHALL CONFORM TO ASTM C-90 ANCHOR EDGE DISTANCE AND SPACING SHALL BE

MEASURED FROM THE CENTERLINE OF EACH ANCHOR. 9. ANCHOR EDGE DISTANCES, EMBEDMENT, AND SPACING BELOW THOSE SHOWN IN DESIGN TABLES HEREIN ARE NOT ACCEPTABLE.

HEREIN ARE NOT ACCEPTABLE.

10. ALLOWABLE LOAD CAPACITIES TO SUBSTRATES
THAT ARE NOT SHOWN IN THE DESIGN TABLES LISTED
HEREIN ARE OUTSIDE THE SCOPE OF THIS
CERTIFICATION AND SHALL BE DETERMINED BY A
LICENSED PROFESSIONAL ENGINEER.

11. ANCHOR VALUES LISTED HEREIN ARE DETERMINED
THROUGH TESTING REPORT DATA AND CHECKED FOR
CONSISTENCY WITH EACH TEST PERFORMED

CONSISTENCY WITH EACH TEST PERFORMED.

12. REFERENCE THE FOLLOWING TEST REPORTS HURRICANE ENGINEERING & TESTING, INC.

#HETI-11-A650 (06/11/13) #HETI-11-A666 (06/11/13) #HETI-11-A674 (06/11/13) #HETI-11-C164 (10/19/11) #HETI-11-C162 (10/17/11) #HETI-11-C163 (12/12/11) #HETI-11-S100 (12/30/11) #HETI-12-T100 (01/24/12) #HETI-12-T101 (01/24/12)

13. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE

14. ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

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RETE-FLEX SS4, 1/4" ULTRACON SS4, 1/4"
CONCRETE & MASONRY ANCHOR
023) | MIAMI-DADE COUNTY NOTICE OF AC 701 EAST JOPPA ROAD TOWNSON, MARYLAND 21286 (800) 524-3244

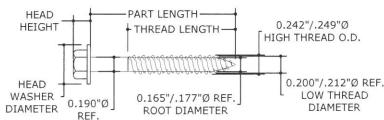
CCB MRT

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SCALE: NTS UNLESS NOTE







"Ø AGGRE-GATOR SCREW SIDE VIEW

AGGRE-GATOR THREAD LENGTHS:

Length code*	Length range of anchor	Part length	Thread length	
	1 < 1 1/2	1 1/4"	1 1/8"	
А	1 1/2 < 2	1 3/4"	1 3/4"	
В	2 < 2 1/2	2 1/4"	1 3/4"	
С	2 1/2 < 3	2 3/4"	1 3/4"	
D	3 < 3 1/2	3 1/4"	1 3/4"	
Ε	3 1/2 < 4	3 3/4	1 3/4"	
F	4 < 4 1/2	4"	1 3/4"	

SEE ILLUSTRATION BELOW

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 24-0117.11 Expiration Date 04/14/2028

Ishag 1. Chands

HEAD MARKING GUIDE:

"C"- LENGTH CODE) - DEWALT LOGO

"3" - 300 SERIES (18-8) STAINLESS

STEEL DESIGNATION

Miami-Dade Product Control

*LENGTH CODE IS MARKED ON TOP OF FASTENER HEAD,

AGGRE-GATOR®

300 SERIES STAINLESS STEEL BI-METAL **CONCRETE & MASONRY SCREW**

1/4"Ø AGGRE-GATOR ALLOWABLE LOAD CAPACITIES:

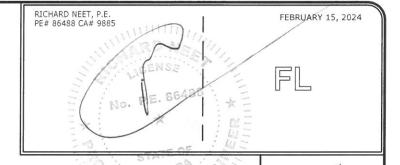
	EDGE DISTANCE	SPACING	EMBEDMENT	TENSION (LB)	SHEAR (LB)
LIGHT OW BLOCK	2"	3"	1-1/4"	156	187
HOLLOW BLOCK	4"	3"	1-1/4"	176	211
	2"	3"	1-1/4"	166	207
GROUT FILLED BLOCK			2"	325	473
	4"	1-1/2"	1-1/4"	149	282
			2"	403	477
	1-1/4"	3"	1"	118	N/A
			1-3/8"	289	N/A
			1-3/4"	294	N/A
	1-1/2"	3"	1"	118	204
			1-3/8"	289	259
CONCRETE			1-3/4"	294	305
(2220 PSI MIN.)	2-1/2"	1-1/2"	1"	194	204
			1-3/8"	251	259
			1-3/4"	319	305
		3"	1-1/2"	N/A	200 +
			1-3/4"	N/A	199 ††
	3"	1-1/2"	1"	194	226
			1-3/8"	251	413
			1-3/4"	319	488
CONCRETE (3275 PSI MIN.)	1-1/4"	3"	1"	248	N/A
			1-3/8"	294	N/A
			1-3/4"	294	N/A
	1-1/2"	3"	1"	248	255
			1-3/8"	294	305
			1-3/4"	294	305
	2-1/2"	1-1/2"	1"	251	255
			1-3/8"	251	305
			1-3/4"	319	305
	3"	1-1/2"	1"	251	226
			1-3/8"	251	510
			1-3/4"	319	515

- HOLLOW & GROUT FILLED BLOCK SHALL CONFORM TO ASTM C-90 MINIMUM BLOCK.
- AGGRE-GATOR ALLOWABLE LOAD CAPACITIES LISTED HEREIN ARE NOT VALID FOR CRACKED CONCRETE SUBSTRATES AS DETAILED IN ACI 355.2.
- † EMBEDMENT DEPTH INTO 2220 PSI CONCRETE, WITH 3/4" MAX THICK UNANCHORED WOOD BUCK LOCATED BETWEEN THE CONCRETE AND SIDE MEMBER
- †† EMBEDMENT DEPTH INTO 2220 PSI CONCRETE, WITH 1½" MAX THICK UNANCHORED WOOD BUCK LOCATED BETWEEN THE CONCRETE AND SIDE MEMBER.

AGGRE-GATOR HEAD DIMENSIONS:

HEAD STYLE	WASHER DIAMETER	HEAD HEIGHT	ACROSS FLATS	
HEX WASHER HEAD	0.420"	0.190"	0.312"	
HEX FLANGE HEAD	0.620"	0.225"	0.312"	
PHILLIPS TRIMFIT HEAD	0.430"*	0.155"	N/A	

^{*}DIAMETER AT FLAT PORTION OF TRIMFIT HEAD



GENERAL NOTES:

THIS PRODUCT HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, AND THE FOLLOWING STANDARDS: ASTM E488, ASTM C39, TAS 114.

AGGRE-GATOR SCREW ANCHORS SHALL BE 300 SERIES (18-8) STAINLESS STEEL WITH A STALGARD GB (GALVANIC BÁRRIER) CORROSION RESISTANT COATING, ANCHOR YIELD STRENGTH Fy=57 KSI, ANCHOR ULTIMATE STRENGTH Fu=96 KSI.

ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS NOTICE OF

4. PILOT HOLES FOR ANCHORS TESTED WERE MADE WITH A $\frac{3}{16}$ " DRILL BIT WITH A DIAMETER OF 0.206"Ø (+0.000/-0.008).

ALLOWABLE LOADS SHOWN HEREIN HAVE BEEN CALCULATED DIRECTLY FROM THE TEST REPORTS REFERENCED BELOW PER THE FOLLOWING:

ULTIMATE LOAD DIVIDED BY 4.0 FOR SOLID NON-CRACKED CONCRETE SUBSTRATES ULTIMATE LOAD DIVIDED BY 5.0 FOR HOLLOW

BLOCK & GROUT FILLED BLOCK SUBSTRATES. 6. NO ALLOWABLE STRESS INCREASE HAS BEEN USED

IN PREPARATION OF THIS DOCUMENT.
7. CONCRETE SHALL CONFORM TO ACI 301
SPECIFICATIONS, WITH STRENGTH PROPERTIES AS SPECIFICATIONS, WITH STRENGTH PROPERTIES AS SPECIFIED HEREIN. HOLLOW AND GROUT-FILLED CONCRETE BLOCK SHALL CONFORM TO ASTM C-90.

8. ANCHOR EDGE DISTANCE AND SPACING SHALL BE MEASURED FROM THE CENTERLINE OF EACH ANCHOR.

9. ANCHOR EDGE DISTANCES, EMBEDMENT, AND

SPACING BELOW THOSE SHOWN IN DESIGN TABLES HEREIN ARE NOT ACCEPTABLE. 10. ALLOWABLE LOAD CAPACITIES TO SUBSTRATES

THAT ARE NOT SHOWN IN THE DESIGN TABLES LISTED HEREIN ARE OUTSIDE THE SCOPE OF THIS CERTIFICATION AND SHALL BE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER

11. ANCHOR VALUES LISTED HEREIN ARE DETERMINED THROUGH TESTING REPORT DATA AND CHECKED FOR CONSISTENCY WITH EACH TEST PERFORMED.

12. REFERENCE THE FOLLOWING TEST REPORTS: HURRICANE ENGINEERING & TESTING,

#HETI-08-A222 (02/28/08 #HETI-08-A226 (02/28/08) #HETI-08-A230 (02/28/08 #HETI-08-A236 (02/28/08 #HETI-08-A242 (02/28/08 #HETI-08-A248 (02/28/08 #HETI-08-A260 (02/28/08 #HETI-08-A275 (03/17/08 #HETI-08-A277 (03/17/08 #HETI-08-C100A (03/25/08 #HETI-08-C101A (03/25/08 #HETI-08-C102A (03/25/08 SUB-TROPICAL TESTING SERVICE. #STTS 08001 (05/25/08)

#STTS 08003 (06/21/08) 13. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE

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701 EAST JOPPA ROAD TOWNSON, MARYLAND 2128 (800) 524-3244 RETE-FLEX SS4, 1/4" ULTRACON
CONCRETE & MASONRY A

DEWAL

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SCALE: NTS UNLESS NOTE







PHILLIPS

TRIMFIT

HEAD







HEX WASHER

HEAD





HEX FLANGE

HEAD