



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

**NOTICE OF ACCEPTANCE (NOA)**

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](http://www.miamidade.gov/economy)

**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. **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., bearing the Miami-Dade County Product Control renewal 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 **renews NOA # 21-0201.08** and consists of this page 1, evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

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



NOA No: 23-0330.04  
Expiration Date: April 14, 2028  
Approval Date: April 27, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**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”**

	<b>Test Report No.</b>	<b>Standard</b>	<b>Date</b>	<b>Signature</b>
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 6<sup>th</sup> edition (2017) FBC, prepared by Engineering Express, dated 12/21/2017, signed and sealed by Frank L. Bennardo, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No: 23-0330.04**  
**Expiration Date: April 14, 2028**  
**Approval Date: April 27, 2023**

**DEWALT**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**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”**

	<b>Test Report</b>	<b>Standard</b>	<b>Date</b>	<b>Signature</b>
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 6<sup>th</sup> edition (2017) FBC, prepared by Engineering Express, dated 12/21/2017, signed and sealed by Frank L. Bennardo, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No: 23-0330.04**  
**Expiration Date: April 14, 2028**  
**Approval Date: April 27, 2023**

**DEWALT**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**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”**

1. 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”**

	<b>Test Report</b>	<b>Standard</b>	<b>Date</b>	<b>Signature</b>
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 6<sup>th</sup> edition (2017) FBC, prepared by Engineering Express, dated 12/21/2017, signed and sealed by Frank L. Bennardo, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No: 23-0330.04**  
**Expiration Date: April 14, 2028**  
**Approval Date: April 27, 2023**

**DEWALT**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**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 6<sup>th</sup> 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.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No: 23-0330.04**  
**Expiration Date: April 14, 2028**  
**Approval Date: April 27, 2023**

**DEWALT**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under NOA # 21-0201.08 and new**

**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. QUALITY 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 7<sup>th</sup> 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 7<sup>th</sup> 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.



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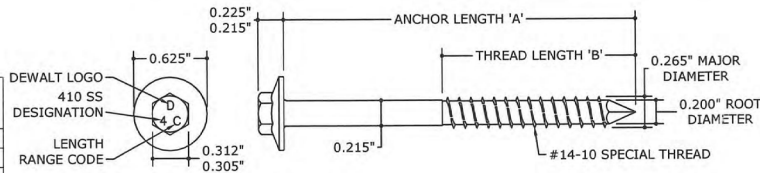
**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No: 23-0330.04**  
**Expiration Date: April 14, 2028**  
**Approval Date: April 27, 2023**



10/20/2020 - 8:03am coby C:\Users\coby\Engineering Express\Production - Documents\Projects\20-21685-DeWalt Ultracon TER, FSA & NOA (2017 & 2020)\MP\2020 FBC - NOA - 19-0519.01 - 14-Crete-Flex\40-20-21685-NOA19-0519.01 - DWG.dwg

# 1/4" CRETE-FLEX<sup>®</sup> SS4 MASONRY SCREWS

Length code*	Part length	Thread length
A	1 3/4"	1.625
B	2 1/4"	1.750
C	2 3/4"	1.750

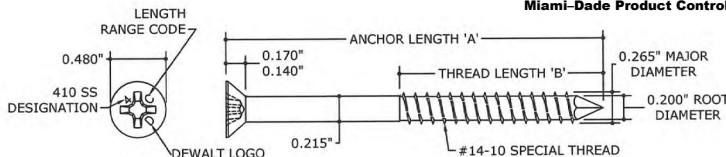


## 1 HEX FLANGE HEAD (HFH)

1'-0" = 1'-0"

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
**NOA-No.** 23-0330.04  
**Expiration Date** 04/14/2028  
 By *[Signature]*  
**Miami-Dade Product Control**

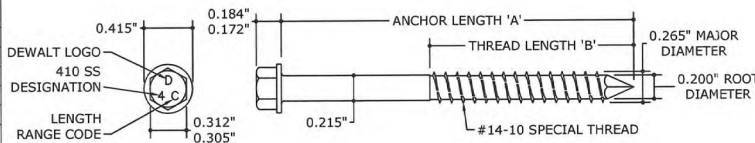
Length code*	Part length	Thread length
□	1 1/4"	1
A	1 3/4"	1.500
B	2 1/4"	1.750
C	2 3/4"	1.750
D	3 1/4"	1.750
E	3 3/4"	1.750
F	4"	1.750
G	5"	1.750
H	6"	1.750



## 2 PHILLIPS FLAT HEAD (PFH)

1'-0" = 1'-0"

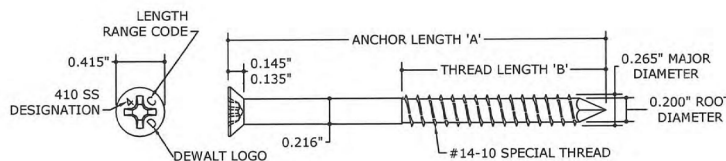
Length code*	Part length	Thread length
□	1 1/4"	1.125
A	1 3/4"	1.625
B	2 1/4"	1.750
C	2 3/4"	1.750
D	3 1/4"	1.750
E	3 3/4"	1.750
F	4"	1.750
G	5"	1.750
H	6"	1.750



## 3 HEX WASHER HEAD (HWH)

1'-0" = 1'-0"

Length code*	Part length	Thread length
□	1 1/4"	1.125
A	1 3/4"	1.625
B	2 1/4"	1.750
C	2 3/4"	1.750
D	3 1/4"	1.750



## 4 TRIM FIT

1'-0" = 1'-0"

### GENERAL NOTES:

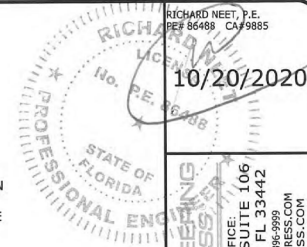
- THIS PRODUCT HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) AND THE FOLLOWING STANDARDS: ASTM E488 & TAS 114. THIS PRODUCT IS INTENDED FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
- ANCHORS ARE MANUFACTURED FROM 410 STAINLESS STEEL AND SHALL HAVE A CORROSION-RESISTANT SILVER-COLORED STALGARD COATING.
- ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS APPROVAL.
- CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, WITH STRENGTH PROPERTIES AS SPECIFIED HEREIN. HOLLOW CONCRETE BLOCK SHALL CONFORM TO ASTM C-90.
- ANCHORS SHALL NOT BE INSTALLED INTO CRACKED CONCRETE AS DEFINED IN ACI 355.2.
- 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.
- 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.
- ANCHORS NOTED HEREIN HAVE A TENSILE YIELD STRENGTH OF Fy = 127.4 ksi AND A TENSILE ULTIMATE STRENGTH OF Fu = 189.7 ksi.

### ALLOWABLE ANCHOR CAPACITIES:

	EMBEDMENT	EDGE DISTANCE	SPACING	TENSION	SHEAR	
CONCRETE 3350 PSI MINIMUM	1"	1"	6" O.C.	150 LB	125 LB	
		1-3/4"	6" O.C.	165 LB	215 LB	
		2-1/2"	6" O.C.	190 LB	265 LB	
	1-3/4"	1"	1-1/2" O.C.	320 LB		
			3" O.C.	388 LB	178 LB	
		1-3/4"	6" O.C.	390 LB	310 LB	
			1-3/4"	6" O.C.	525 LB	450 LB
			2-1/2"	3" O.C.	314 LB	467 LB
			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		
C90 CONCRETE BLOCK	1-1/4"	1"	6" O.C.	156 LB	84 LB	
		1-3/4"	6" O.C.	232 LB	264 LB	
	1-1/4"	1-1/2" O.C.	101 LB	213 LB		
			3" O.C.	101 LB	247 LB	
		6" O.C.	244 LB	264 LB		
	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.

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
**NOA-No.** 21-0201.08  
**Expiration Date** 04/14/2023  
 By *[Signature]*  
**Miami-Dade Product Control**



10/20/2020

**ENGINEERING EXPRESS**  
 CORPORATE OFFICE: SUITE 106  
 DEERFIELD BEACH, FL 33442  
 (854) 354-8666 | (866) 396-9999  
 TEAM@ENGINEERINGEXPRESS.COM  
 ENGINEERINGEXPRESS.COM

**DEWALT**  
 701 EAST TOPPA ROAD  
 TOWNSON, MARYLAND 21286  
 (800) 524-5244  
 DEWALT 1/4" CRETE-FLEX SS4, 1/4" ULTRACON SS4, 1/4" AGGRE-GATOR  
 CONCRETE & MASONRY ANCHORS  
 MIAMI DADE NOTICE OF ACCEPTANCE

DATE	DRWN	CHKD	DATE	FLB	DATE	IRVN	DATE	IRVN	DATE
2/18/19			2/18/19						
10/20/20			10/20/20						

REMARKS  
 INT ISSUE  
 2020 FBC

10/20/2020 - 8:03am coby

1

C:\Users\robby\Engineering\Express\Production - Documents\Project\20-21685-DeWalt\Ultracon - FSA & NOA (2017 & 2020)\WP\2020-FRC - NOA - 19-0519.01 - 14-Crete-Flex40 - 20-21685-NOA19-0519.01 - DWG.dwg  
 10/20/2020 - 9:03am  
 robby

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
**NOA-No.** 23-0330.04  
**Expiration Date** 04/14/2028  
 By *[Signature]*  
**Miami-Dade Product Control**

# ULTRACON<sup>®</sup> SS4

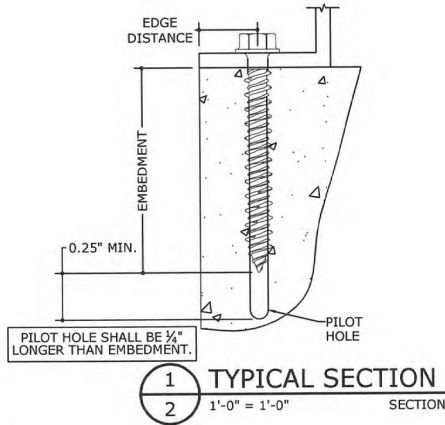
## 410 SERIES STAINLESS STEEL CONCRETE & MASONRY SCREW

### 1/4"Ø ULTRACON SS4 ALLOWABLE LOAD CAPACITIES:

	EDGE DISTANCE	SPACING	EMBEDMENT	TENSION (LB)	SHEAR (LB)
HOLLOW BLOCK	1"	1-1/2"	1-1/4"	106	44
		3"	1-1/4"	124	72
		1-1/2"	1-1/4"	106	89
	2-1/2"	3"	1-1/4"	124	123
		1"	1"	91	71
		1"	1-3/4"	144	103
CONCRETE (2897 PSI MIN.)	1"	3"	1"	163	74
		1-3/4"	1-3/4"	328	136
		1-1/2"	1"	191	194
	2-1/2"	3"	1-3/4"	339	505
		1"	1"	236	263
		1"	1-3/4"	403	584
GROUT FILLED BLOCK	1"	1-1/2"	1-1/4"	137	56
		3"	2"	218	56
		1-1/4"	1-1/4"	190	83
	2-1/2"	3"	2"	292	83
		1-1/2"	1-1/4"	205	91
		1-1/2"	2"	218	180
		3"	1-1/4"	212	200
			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 1624 PSI
- ALLOWABLE LOAD CAPACITIES LISTED HEREIN ARE **NOT** VALID FOR CRACKED CONCRETE SUBSTRATES AS DETAILED IN ACI 355.2.



### ULTRACON SS4 THREAD LENGTHS:

Length code*	Part length	Thread length
□	1 1/4"	1 1/8"
A	1 3/4"	1 5/8"
B	2 1/4"	1 7/8"
C	2 3/4"	1 7/8"
D	3 1/4"	1 7/8"
E	3 3/4"	1 7/8"
F	4"	1 7/8"

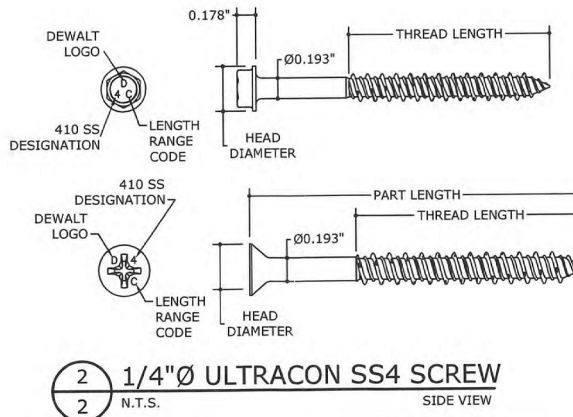
\*LENGTH CODE IS MARKED ON TOP OF FASTENER HEAD, SEE ILLUSTRATION BELOW

### 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"



### GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, AND THE FOLLOWING STANDARDS: ASTM E488, ASTM C39, TAS 114, ASTM G85.
- ULTRACON SS4 SCREW ANCHORS SHALL BE 410 SERIES STAINLESS STEEL WITH A SILVER STALGARD CORROSION RESISTANT COATING, ANCHOR YIELD STRENGTH  $F_y=164$  KSI, ANCHOR ULTIMATE STRENGTH  $F_u=190$  KSI.
- ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS APPROVAL.
- PILOT HOLES FOR ANCHORS TESTED WERE MADE WITH A 3/8" 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.
- NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN PREPARATION OF THIS DOCUMENT.
- 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.
- ANCHOR EDGE DISTANCE AND SPACING SHALL BE MEASURED FROM THE CENTERLINE OF EACH ANCHOR.
- ANCHOR EDGE DISTANCES, EMBEDMENT, AND SPACING BELOW THOSE SHOWN IN DESIGN TABLES HEREIN ARE NOT ACCEPTABLE.
- 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.
- 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-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 (01/23/11)
    - #HETI-12-T100 (01/24/12)
    - #HETI-12-T101 (01/24/12)
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
**NOA-No.** 21-0201.08  
**Expiration Date** 04/14/2023  
 By *[Signature]*  
**Miami-Dade Product Control**

RICHARD NEET, P.E.  
 PE# 86488, CA# 9885  
 10/20/2020

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 701 EAST JOPPA ROAD  
 TOWNSON, MARYLAND 21286  
 (800) 524-3244  
 DEWALT 1/4" CRETE-FLEX SS4, 1/4" ULTRACON SS4, 1/4" AGGRE-GATOR  
 CONCRETE & MASONRY ANCHORS  
 MIAMI DADE NOTICE OF ACCEPTANCE

DRWN	CHKD	DATE
RWN	FLB	2/18/19
CCB	RWN	10/20/20

REMARKS  
 INT ISSUE  
 2020 FRC

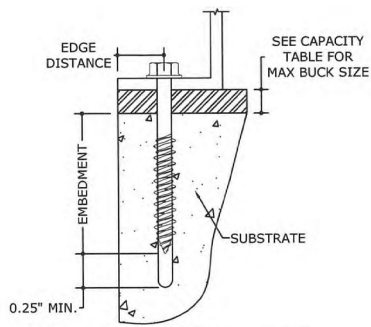
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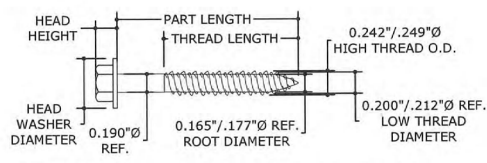
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# AGGRE-GATOR®

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



**1** TYPICAL SECTION  
**3** N.T.S. SECTION



**2** 1/4" Ø AGGRE-GATOR SCREW  
**3** N.T.S. 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"
A	1 1/2 < 2	1 3/4"	1 3/4"
B	2 < 2 1/2	2 1/4"	1 3/4"
C	2 1/2 < 3	2 3/4"	1 3/4"
D	3 < 3 1/2	3 1/4"	1 3/4"
E	3 1/2 < 4	3 3/4"	1 3/4"
F	4 < 4 1/2	4"	1 3/4"

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

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

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

- NOTE:**
- 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 3/8" MAX THICK UNANCHORED WOOD BUCK LOCATED BETWEEN THE CONCRETE AND SIDE MEMBER.  
 †† EMBEDMENT DEPTH INTO 2220 PSI CONCRETE, WITH 1/2" MAX THICK UNANCHORED WOOD BUCK LOCATED BETWEEN THE CONCRETE AND SIDE MEMBER.

### GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) 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 BARRIER) CORROSION RESISTANT COATING, ANCHOR YIELD STRENGTH F<sub>y</sub>=57 KSI, ANCHOR ULTIMATE STRENGTH F<sub>u</sub>=96 KSI.
- ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS NOTICE OF ACCEPTANCE.
- PILOT HOLES FOR ANCHORS TESTED WERE MADE WITH A 3/8" 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.
  - NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN PREPARATION OF THIS DOCUMENT.
- 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.
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- 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-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)
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.



10/20/2020  
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 (800) 524-3244  
 DEWALT 1/4" CRETE-FLEX S54, 1/4" ULTRACON S54, 1/4" AGGRE-GATOR CONCRETE & MASONRY ANCHORS  
 MIAMI DADE NOTICE OF ACCEPTANCE

DRWN	CHKD	DATE

REMARKS  
 INTISSUE  
 DATE  
 20-21685  
 SCALE: NTS UNLESS NOTED  
**3**



**HEAD MARKING GUIDE:**

"3" - 300 SERIES (18-8) STAINLESS STEEL DESIGNATION  
 "C" - LENGTH CODE  
 D - DEWALT LOGO

### 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

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
**NOA-No.** 23-0330.04  
**Expiration Date** 04/14/2028  
 By *[Signature]*  
**Miami-Dade Product Control**

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
**NOA-No.** 21-0201.08  
**Expiration Date** 04/14/2023  
 By *[Signature]*  
**Miami-Dade Product Control**