

c:\users\milton\engineering express\production - documents\projects\23-62843 multiple products 2023 fbc update fbc f129068\work\2023 fbc\drawings & cad\23-62843c - f129068.1 - cad.dwg
10/16/2023 10:54 AM MILTON

DEWALT

1/4" CRETE-FLEX® SS4

VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

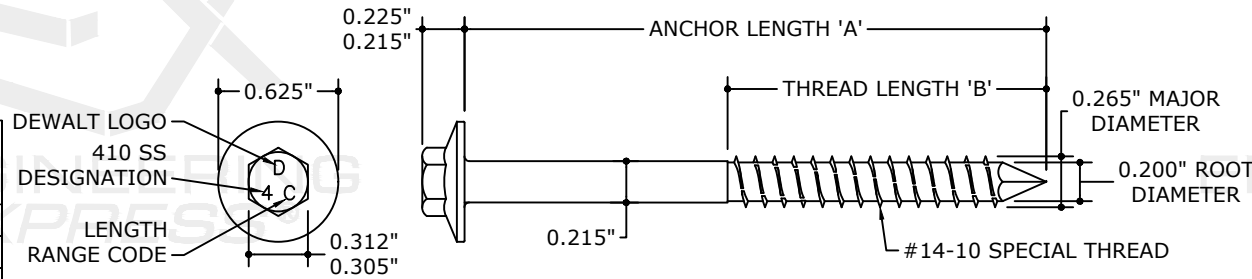
RICHARD NEET, P.E.
PE# 86488 CA# 9885

OCTOBER 16, 2023



Digitally signed by Richard Neet
Date: 2023.10.20 11:03:42-04'00'

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



NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT **ENGINEERINGEXPRESS.COM/QUOTE** FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

FL 29068.1

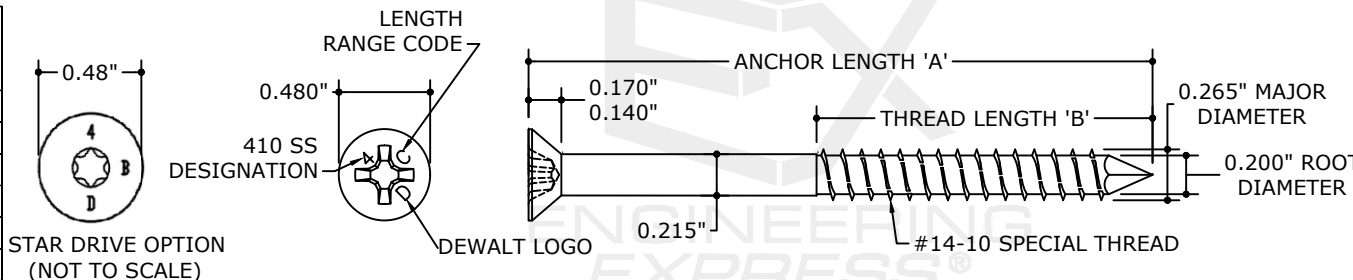
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1 HEX FLANGE HEAD (HFH)

1'-0" = 1'-0"

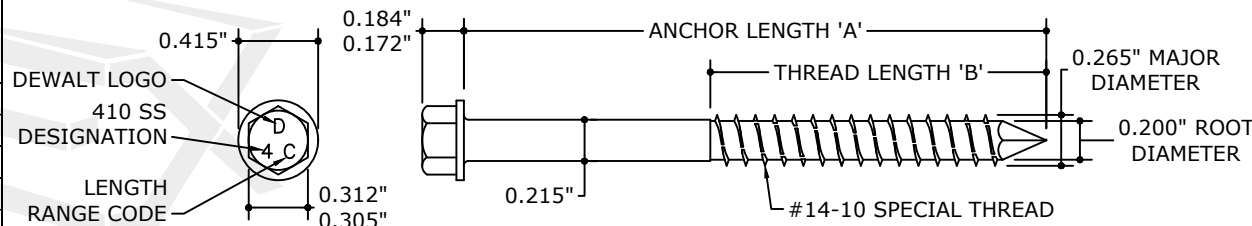
Length code*	Part length	Thread length
□	1 1/4"	1
A	1 3/4"	1.500
B	2 1/4"	1.750
C	2 3/4"	1.750
D	3 1/4"	1.750
E	3 3/4"	1.750
F	4"	1.750
G	5"	1.750
H	6"	1.750



2 PHILLIPS FLAT HEAD/STAR FLAT HEAD

1'-0" = 1'-0"

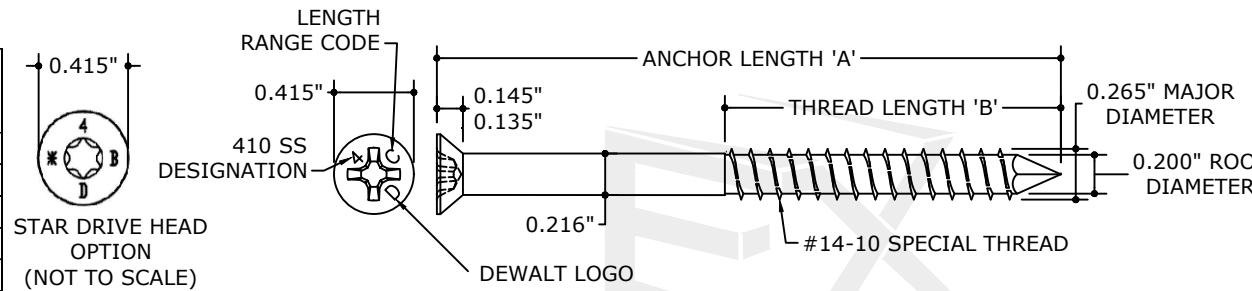
Length code*	Part length	Thread length
□	1 1/4"	1.125
A	1 3/4"	1.625
B	2 1/4"	1.750
C	2 3/4"	1.750
D	3 1/4"	1.750
E	3 3/4"	1.750
F	4"	1.750
G	5"	1.750
H	6"	1.750



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 PHILLIPS TRIM FIT/STAR TRIM FIT

1'-0" = 1'-0"

GENERAL NOTES:

- 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.
- 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 C90.
- ANCHORS SHALL NOT BE INSTALLED INTO CRACKED CONCRETE AS DEFINED IN ACI 355.
- 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 $F_y = 127.4$ ksi AND A TENSILE ULTIMATE STRENGTH OF $F_u = 189.7$ ksi.
- 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.

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
			6" O.C.	525 LB	450 LB
	2"	2-1/2"	3" O.C.	314 LB	467 LB
		6" O.C.	6" O.C.	625 LB	645 LB
			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
		2-1/2"	1-1/2" O.C.	101 LB	213 LB
			3" O.C.	101 LB	247 LB
	1-5/8"	1"	6" O.C.	244 LB	264 LB
			6" O.C.	248 LB	108 LB
	1-5/8"	1"	6" O.C.	248 LB	108 LB

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL: "INC." FOR "INCORPORATION", "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CS" FOR "CARBON STEEL", "CONN" FOR "CONNECTION", "EMBED" FOR "EMBEDMENT", "DIST." FOR "DISTANCE", "GA" FOR "GAUGE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "N.T.S." FOR "NOT TO SCALE", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST" FOR "EXISTING", "STRUCT" FOR "STRUCTURE", "CONC." FOR "CONCRETE". CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

VISIT [ECALC.IO/62843](https://ecalculator.com/62843)

FOR SITE-SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
OR SCAN THIS QR CODE

VISIT [ENGINEERINGEXPRESS.COM/STORE](https://engineeringexpress.com/store)
FOR ADDITIONAL PLANS, REPORTS & RESOURCES



DEWALT

701 EAST JOPPA ROAD
TOWNSON, MARYLAND 21286
(800) 524-3244

1/4" CRETE-FLEX SS4, 1/4" ULTRACON SS4 & 1/4" AGGRE-GATOR
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL #29068.1)

REMARKS	DATE	INITIALS	DATE	INITIALS	DATE	INITIALS
INITIALS	02/18/19		07/16/20		10/04/23	
PREV. SUBMITTAL (20-21685-1)						
2023 FBC UPDATE						

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DEWALT

1/4" ULTRACON® SS4

VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

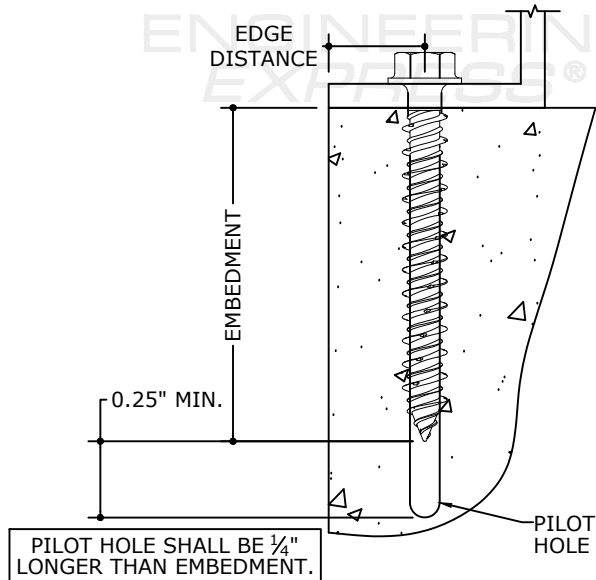
NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

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
	2-1/2"	1-1/2"	1-1/4"	106	89
CONCRETE (2897 PSI MIN.)	1"	1-1/2"	1"	91	71
			1-3/4"	144	103
		3"	1"	163	74
	2-1/2"	1-1/2"	1-3/4"	328	136
			1"	191	194
		3"	1"	236	263
GROUT FILLED BLOCK	1"	1-1/2"	1-3/4"	403	584
			2"	137	56
		3"	1-1/4"	218	56
	2-1/2"	1-1/2"	1-1/4"	190	83
			2"	292	83
		3"	1-1/4"	205	91
			2"	218	180
	3"	2"	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.



1 TYPICAL SECTION
2 1'-0" = 1'-0" SECTION

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"

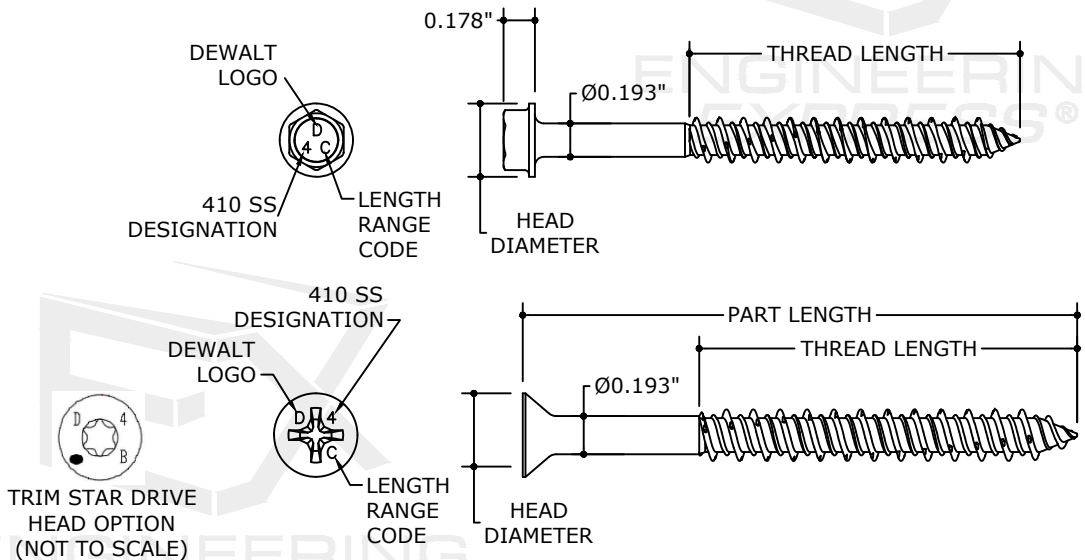
*LENGTH CODE IS MARKED ON TOP OF FASTENER HEAD, SEE ILLUSTRATION BELOW

DRIVE AND HEAD DIMENSIONS:

DRIVE/HEAD STYLE	DRIVE	HEAD DIAMETER
HEX WASHER HEAD (HWH)	5/16" HEX (AF)	0.543" NOM.
PHILLIPS TRIM FLAT HEAD (PTFH)	#3 PHILLIPS	0.415" NOM.
STAR TRIM FLAT HEAD (STFH)	STAR	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"



2 1/4"Ø ULTRACON SS4 SCREW
2 N.T.S. SIDE VIEW

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

OCTOBER 16, 2023



FL

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(800) 524-3244

1/4" CRETE-FLEX SS4, 1/4" ULTRACON SS4 & 1/4" AGGRE-GATOR
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#29068.1)

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 Fy=164 KSI, ANCHOR ULTIMATE STRENGTH Fu=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 3/16" 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.
 - 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 (12/30/11)
 - #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.

TERMINOLOGY:

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REMARKS	DATE	DRWN	CHKD
INIT ISSUE	02/18/19	RWN	FLB
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2023 FBC UPDATE	10/04/23	MRT	RWN

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OF 3

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DEWALT

1/4" AGGRE-GATOR®

VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)
NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL
SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

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

OCTOBER 16, 2023



FL

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
			1-1/4"	149	282
			2"	403	477
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"	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

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.

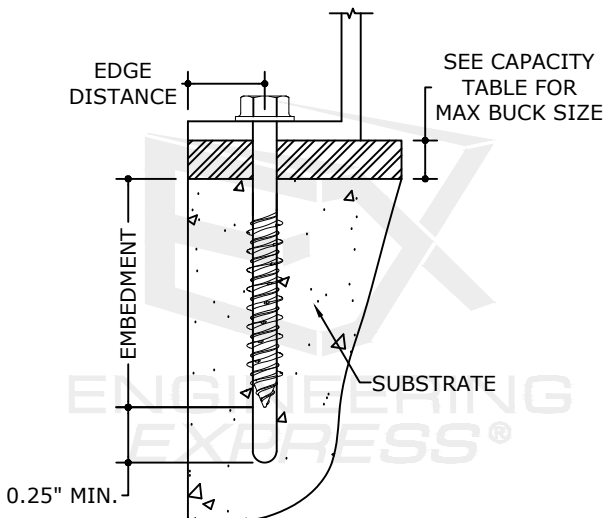
† EMBEDMENT DEPTH INTO 2220 PSI CONCRETE, WITH 3/4" MAX THICK UNANCHORED WOOD BUCK LOCATED BETWEEN THE CONCRETE AND SIDE MEMBER.

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

AGGRE-GATOR HEAD DIMENSIONS:

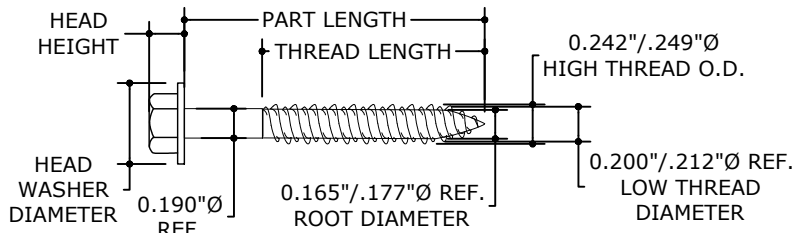
HEAD STYLE	WASHER DIAMETER	HEAD HEIGHT	ACROSS FLATS
HEX WASHER HEAD (HWH)	0.420"	0.190"	0.312"
HEX FLANGE HEAD (HFH)	0.620"	0.225"	0.312"
PHILLIPS TRIM FLAT HEAD (PTFH)	0.430"*	0.155"	N/A
STAR TRIM FLAT HEAD (STFH)	0.430"*	0.155"	N/A

*DIAMETER AT FLAT PORTION OF TRIMFIT HEAD



1 TYPICAL SECTION

3 N.T.S. SECTION



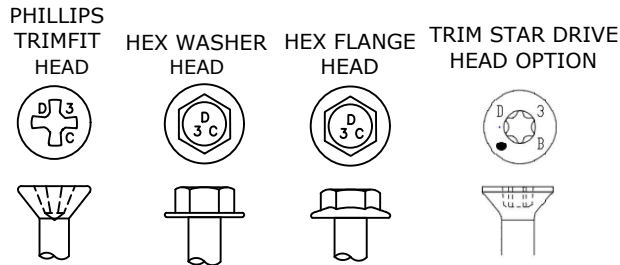
2 1/4"Ø AGGRE-GATOR SCREW

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



HEAD MARKING GUIDE:

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

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 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 ACCEPTANCE.
- PILOT HOLES FOR ANCHORS TESTED WERE MADE WITH A 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.
- 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-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.

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL: "INC." FOR "INCORPORATION", "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CS" FOR "CARBON STEEL", "CONN" FOR "CONNECTION", "EMBED" FOR "EMBEDMENT", "DIST." FOR "DISTANCE", "GA" FOR "GAUGE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "N.T.S." FOR "NOT TO SCALE", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/r²)", "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST" FOR "EXISTING", "STRUCT" FOR "STRUCTURE", "CONC." FOR "CONCRETE". CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

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REMARKS	DATE	DRWN	CHKD
INIT ISSUE	02/18/19	RWN	FLB
PREV. SUBMITTAL (20-21685-1)	07/16/20	CCB	RWN
2023 FBC UPDATE	10/04/23	MRT	RWN

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SCALE: NTS UNLESS NOTED

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