



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

The Hillman Group, Inc.
1590 NW 27th Avenue
Pompano Beach, FL 33069

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 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: Hillman Solid Set™ / All-Points Solid Set™ / Hillman Power Pro® Carbon Steel & Stainless-Steel Screws

APPROVAL DOCUMENT: Drawing No. 23-69072 (former 22-50606), titled “Hillman Solid Set / All-Points Solid Set Carbon Steel & Stainless-Steel Screws”, sheets 1 through 8 of 8, dated 06/23/2023, with latest revision dated FEB 24, 2024, prepared by Engineering Express, signed and sealed by Richard Neet, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and Revision 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 # 23-0714.03 and consists of page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



NOA No: 24-0319.05
Expiration Date: September 22, 2027
Approval Date: May 09, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under NOA # 22-0606.04 and NOA # 22-1011.03

A. DRAWINGS

1. Drawing No. **22-50606**, titled “Hillman Solid Set / All-Points Solid Set Carbon Steel & Stainless-Steel Screws”, sheets 1 through 5 of 5, dated 06/15/2021, with latest revision dated 08/04/2022, prepared by Engineering Express, signed and sealed by Richard Neet, P.E. on 09/22/2022.

B. TESTS

	<u>Test Report No.</u>	<u>Standard</u>	<u>Date</u>	<u>Sign & Seal</u>
1.	HETI-20-A5046	ASTM E488-18	09/01/22-R	Ram N. Tewari, P.E.
2.	HETI-20-A5047	ASTM E488-18	09/01/22-R	Ram N. Tewari, P.E.
3.	HETI-20-A5048	ASTM E488-18	09/01/22-R	Ram N. Tewari, P.E.
4.	HETI-20-A5050	ASTM E488-18	09/01/22-R	Ram N. Tewari, P.E.
5.	HETI-20-A5052	ASTM E488-18	09/01/22-R	Ram N. Tewari, P.E.
6.	HETI-20-A5055	ASTM E488-18	09/01/22-R	Ram N. Tewari, P.E.
7.	HETI-20-S421	ASTM G85-11 A5	01/19/21	Rafael E. Droz-Seda, P.E.
8.	HETI-21-S800	ASTM G85-11 A5	01/19/21	Rafael E. Droz-Seda, P.E.
9.	HETI-21-S802	ASTM G85-11 A5	01/19/21	Rafael E. Droz-Seda, P.E.
10.	HETI-21-S805	ASTM G85-11 A5	01/19/21	Rafael E. Droz-Seda, P.E.
11.	HETI-21-S806	ASTM G85-11 A5	01/19/21	Rafael E. Droz-Seda, P.E.
12.	HETI-20-C104	ASTM C39-21	03/12/21	Rafael E. Droz-Seda, P.E.

C. CALCULATIONS

1. Anchors tension and shear strength calculation, prepared by Engineering Express, dated 05/13/2022, signed and sealed Richard Neet, P.E.

D. MATERIAL CERTIFICATIONS

1. None.

E. QUALITY ASSURANCE

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

F. STATEMENTS

1. Statement letter of code conformance to the 7th edition (2020) of the FBC, issued by Engineering Express, dated 04/15/2022, signed and sealed by Richard Neet, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 04/15/2022, signed and sealed by Richard Neet, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No: 24-0319.05
Expiration Date: September 22, 2027
Approval Date: May 09, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **22-50606**, titled “Hillman Solid Set / All-Points Solid Set Carbon Steel & Stainless-Steel Screws”, sheets 1 through 8 of 8, dated 06/15/2021, with latest revision dated 06/22/2023, prepared by Engineering Express, signed and sealed by Richard Neet, P.E.

B. TESTS

	<u>Test Report No.</u>	<u>Standard</u>	<u>Date</u>	<u>Sign & Seal</u>
1.	HETI-23-A729	ASTM E488-22	04/06/23	Ram N. Tewari, P.E.
2.	HETI-23-A762	ASTM E488-22	06/16/23	Ram N. Tewari, P.E.
3.	HETI-22-T620	ASTM E8-22/F606-21	05/16/23	Ram N. Tewari, P.E.
4.	HETI-22-T621	ASTM E8-22/F606-21	05/16/23	Ram N. Tewari, P.E.
5.	HETI-23-T572	ASTM E8-22/F606-21	05/16/23	Ram N. Tewari, P.E.
6.	HETI-23-T573	ASTM E8-22/F606-21	05/16/23	Ram N. Tewari, P.E.
7.	HETI-23-T771	ASTM E8-22/F606-21	06/16/23	Ram N. Tewari, P.E.
8.	HETI-23-C727	ASTM C39-21	04/07/23	Ram N. Tewari, P.E.
9.	HETI-23-C772	ASTM C39-21	06/16/23	Ram N. Tewari, P.E.

C. CALCULATIONS

1. Anchors tension and shear strength calculation, prepared by Engineering Express, dated 08/11/2023, signed and sealed Richard Neet, P.E.

D. MATERIAL CERTIFICATIONS

1. None.

E. QUALITY ASSURANCE

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

F. STATEMENTS

1. Statement letter of code conformance to the 7th edition (2020) of the FBC, issued by Engineering Express, dated 08/11/2023, signed and sealed by Richard Neet, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 08/11/2023, signed and sealed by Richard Neet, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No: 24-03149.05
Expiration Date: September 22, 2027
Approval Date: May 09, 2024

The Hillman Group, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New evidence submitted

A. DRAWINGS

1. Drawing No. **23-69072** (former **22-50606**), titled “Hillman Solid Set / All-Points Solid Set Carbon Steel & Stainless-Steel Screws”, sheets 1 through 8 of 8, dated 06/23/2023, with latest revision dated FEB 24, 2024, prepared by Engineering Express, signed and sealed by Richard Neet, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. MATERIAL CERTIFICATIONS

1. None.

E. QUALITY ASSURANCE

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

F. STATEMENTS

1. Statement letter of code conformance to the 8th edition (2023) of the FBC, “no financial interest” and compliance statement into DWG dated 03/05/24, issued by Engineering Express, signed and sealed by Richard Neet, P.E.

G. OTHER

1. This NOA revises NOA # **23-0714.03**, expiring 09/22/27.

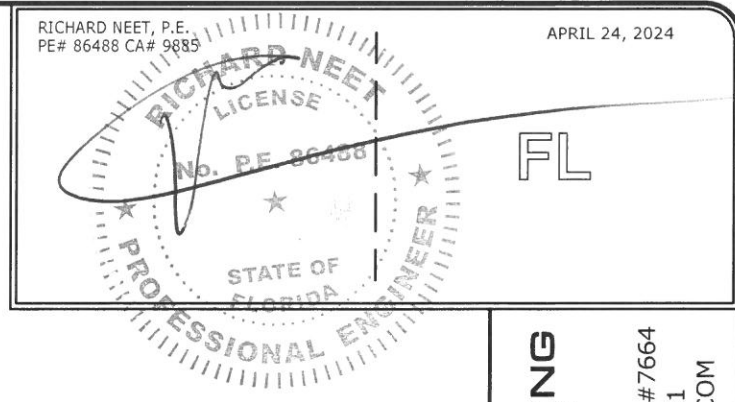
Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No: 24-03149.05
Expiration Date: September 22, 2027
Approval Date: May 09, 2024

c:\users\eric\engineering_express\production - documents\projects\23-123-60972_2023 noa product update 22-1011.03\work\2023 fbc\drawings & cad\5 - 23-60972d noa dwg.dwg 4/24/2024 1:46 PM ERIC

THE HILLMAN GROUP, INC.
HILLMAN SOLID SET™ / ALL-POINTS SOLID SET™ / HILLMAN POWER PRO®
CARBON STEEL & STAINLESS STEEL SCREWS
(CONCRETE, MASONRY & WOOD SUBSTRATES)

NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.



NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN FLORIDA ONLY. USE IN FLORIDA OR ANY OTHER STATE SHALL REQUIRE A REVIEW & CERTIFICATION BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THAT STATE WHO SHALL BE RESPONSIBLE FOR THE CONTENT & PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE FOR ASSISTANCE WITH YOUR PROJECT NEEDS.

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, ACI 355.2, ASTM C39, TAS 114 & ASTM D1761.
2. ALL CARBON STEEL SCREW ANCHORS SHALL BE SAE 1022 PER SAE J933. ALL STAINLESS STEEL SCREW ANCHORS SHALL BE SERIES 410 OR SERIES 304 AS SPECIFIED HEREIN. CARBON STEEL SCREWS SHALL HAVE THE FOLLOWING CORROSION-PROTECTIVE COATINGS:
 - BASE COAT: GALVANIZED
 - TOP COAT: ORGANIC COATING (COLOR MAY VARY)
SEE NEXT PAGE FOR ANCHOR YIELD/ULTIMATE TENSILE STRENGTH VALUES AS APPLICABLE.
3. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS NOTICE OF ACCEPTANCE.
4. PILOT HOLES FOR ANCHORS SHALL BE PER THE DRILL BIT SCHEDULE HEREIN.
5. ALLOWABLE LOADS SHOWN HEREIN HAVE BEEN CALCULATED DIRECTLY FROM THE TEST REPORTS REFERENCED BELOW PER THE FOLLOWING:
 - 5.1. ULTIMATE LOAD DIVIDED BY 4.0 FOR SOLID NON-CRACKED CONCRETE SUBSTRATES.
 - 5.2. ULTIMATE LOAD DIVIDED BY 5.0 FOR HOLLOW BLOCK & GROUT FILLED BLOCK SUBSTRATES.
 - 5.3. ULTIMATE LOAD DIVIDED BY 3.0 FOR WOOD SUBSTRATES PER THE FOLLOWING PARAMETERS:
 - LOAD DIRECTION = PERPENDICULAR TO WOOD GRAIN
 - LOAD DURATION FACTOR = 1.6
 - TEMPERATURE ≤100° F
 - MOISTURE AT FABRIC ≤19%
 - MOISTURE IN SERVICE ≤19%
 - EXPOSURE SERVICE = DRY CONDITIONS**SCREW CAPACITIES TO WOOD FOR CONDITIONS OTHER THAN LISTED ABOVE SHALL BE ADJUSTED AND CERTIFIED SEPARATELY IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) BY A LICENSED PROFESSIONAL ENGINEER.*
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 SPECIFIED HEREIN. HOLLOW AND GROUT-FILLED CONCRETE BLOCK SHALL CONFORM TO ASTM C-90. WOOD SUBSTRATES SHALL HAVE THE MINIMUM SPECIFIC GRAVITY AS LISTED HEREIN.
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. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
13. ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
14. IN ALL CONDITIONS IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER TO ENSURE THE HOST STRUCTURE IS CAPABLE OF RESISTING THE LOAD RATING HEREIN.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0319.05
Expiration Date 09/22/2027
By Isheq I. Chande
Miami-Dade Product Control

**ANCHOR YIELD/ULTIMATE TENSILE STRENGTH:
PER ASTM E8-22 & ASTM F606-21**

ANCHOR	YIELD STRENGTH, YS or Fy (ksi)	ULTIMATE TENSILE STRENGTH, UTS or Fu (ksi)
SOLID SET 3/16" SCREW CS	156.8	172.0
SOLID SET #14 MALE ANCHOR CS	168.5	172.5
SOLID SET 1/4" SCREW CS	138.2	149.1
SOLID SET 1/4" SCREW 410 SS	161.1	187.2
SOLID SET 5/16" SCREW CS	150.1	153.4

PAGE INDEX:

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GENERAL NOTES, ANCHOR YS & UTS VALUES	1
ALLOWABLE SCREW CAPACITIES	2 - 4
ANCHOR DRAWINGS & DIMENSIONS	5 - 8

ENGINEERING EXPRESS®
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THE HILLMAN GROUP, INC.
1590 NW 27TH AVE
POMPANO BEACH, FL 33069
(954) 984-0116
HILLMAN GROUP SOLID SET ANCHORS
CONCRETE, MASONRY AND WOOD SUBSTRATES
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (23-50606)	ER/AMR	R/WN	06/22/23
2023 FEB UPDATE	MRT	ER/RN	02/23/24

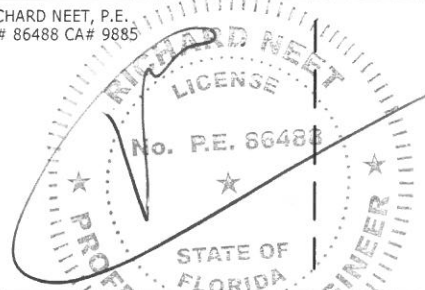
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23-69072
SCALE: NTS UNLESS NOTED
1 OF 8

ALLOWABLE SCREW CAPACITIES (PAGE 1 OF 3):

CS = CARBON STEEL
SS = STAINLESS STEEL

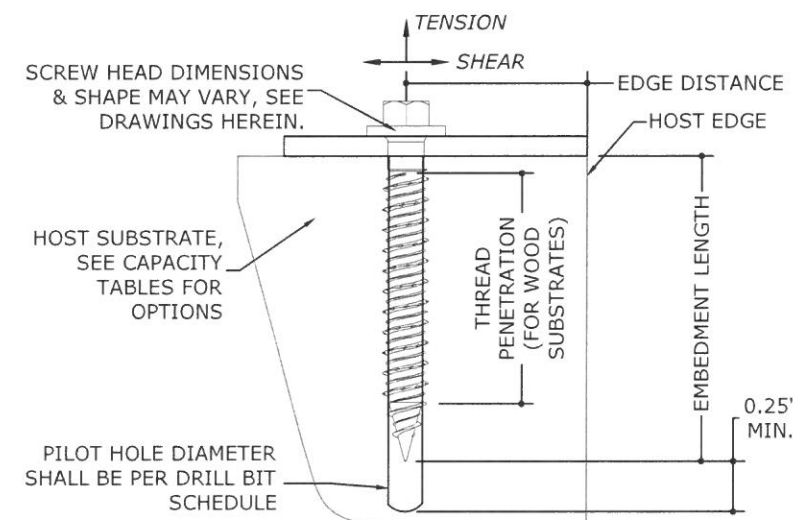
RICHARD NEET, P.E.
PE# 86488 CA# 9885

APRIL 24, 2024



ANCHOR	SUBSTRATE	EMBEDMENT	MIN. O.C. SPACING	LOADING TYPE	MIN. EDGE DISTANCE	ALLOWABLE LOAD (LB)
SOLID SET 5/16" SCREW CS	3KSI CONCRETE	1.75"	5.00"	TENSION	3.00"	501
				SHEAR	1.25"	501
		2.00"	5.00"	TENSION	3.00"	688
				SHEAR	1.25"	260
		2.25"	5.00"	TENSION	3.125"	743
				SHEAR	3.125"	780
	GROUT FILLED CMU	1.75"	5.00"	TENSION	3.00"	985
				SHEAR	3.00"	872
		2.25"	5.00"	TENSION	3.00"	338
				SHEAR	3.00"	491
		2.25"	5.00"	TENSION	3.00"	654
				SHEAR	3.00"	707
HOLLOW BLOCK	1.25"	5.00"	TENSION	3.00"	175	
			SHEAR	3.00"	283	
SOLID SET 1/4" SCREW CS	3KSI CONCRETE	1.375"	4.00"	TENSION	2.50"	253
				SHEAR	1.00"	253
			3.00"	TENSION	2.50"	128
				SHEAR	1.00"	128
		1.75"	3.00"	TENSION	3.00"	484
				SHEAR	2.50"	461
				TENSION	1.25"	406
				SHEAR	3.00"	463
			4.00"	TENSION	2.50"	408
				SHEAR	1.25"	274
				TENSION	2.50"	517
				SHEAR	1.00"	517
	6.00"	TENSION	2.50"	461		
		SHEAR	1.00"	143		
		TENSION	1.00"	517		
		SHEAR	1.00"	143		
	GROUT FILLED CMU	1.75"	3.00"	TENSION	3.00"	424
				SHEAR	1.25"	368
		3.00"	TENSION	3.00"	336	
			SHEAR	1.25"	213	
			TENSION	3.00"	179	
			SHEAR	1.25"	150	
	HOLLOW BLOCK	3.00"	3.00"	TENSION	1.00"	128
				SHEAR	3.00"	294
			4.00"	TENSION	1.25"	136
				SHEAR	1.00"	70
		4.00"	3.00"	TENSION	2.50"	181
				SHEAR	1.00"	181
			6.00"	TENSION	2.50"	103
				SHEAR	1.00"	103
	6.00"	3.00"	TENSION	2.50"	181	
			SHEAR	1.00"	181	
		4.00"	TENSION	2.50"	103	
			SHEAR	1.00"	103	
	WOOD (G=0.55)	1.50"	3.00"	TENSION	0.75"	404
				SHEAR ⊥	0.75"	221
	WOOD (G=0.42)	1.50"	3.00"	TENSION	0.75"	319
				SHEAR ⊥	0.75"	257

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0319.05
Expiration Date 09/22/2027
By Ishay I. Chank
Miami-Dade Product Control



1 TYPICAL SECTION
2 NTS SECTION VIEW

NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.

DRILL BIT SCHEDULE

SCREW TYPE	DRILL BIT DIAMETER
ALL 5/16" SCREWS	1/4"
ALL 1/4" SCREWS	3/16"
ALL 3/16" SCREWS	5/32"
ALL #14 MALE & FEMALE SCREWS	7/32"

CAPACITY TABLE NOTES:

- INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS DOCUMENT
- CLEAN HOLES OF DEBRIS AND DUST BEFORE INSTALLATION OF ANCHOR
- ANCHORS SHALL NOT BE INSTALLED BEFORE THE CONCRETE HAS DEVELOPED ITS DESIGN STRENGTH
- ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 355.2
- SEE REMAINING SHEETS HEREIN FOR SCREW LENGTH OPTIONS AND OTHER SPECIFICATIONS
- ⊥ = PERPENDICULAR TO WOOD GRAIN

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(954) 984-0116

HILLMAN GROUP SOLID SET ANCHORS
CONCRETE, MASONRY AND WOOD SUBSTRATES
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

DRWN	CHKD	DATE
ER/MR	RVN	06/22/23
MRT	ER/PN	02/23/24

REMARKS
PREV. SUBMITTAL (22-50606)
2023 FCC UPDATE

23-69072

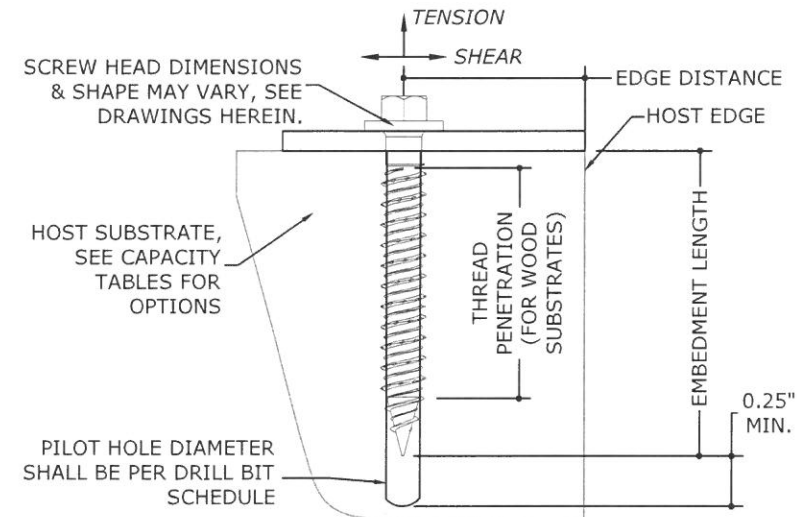
SCALE: NTS UNLESS NOTED

2 OF 3

ALLOWABLE SCREW CAPACITIES (PAGE 2 OF 3):

CS = CARBON STEEL
SS = STAINLESS STEEL

ANCHOR	SUBSTRATE	EMBEDMENT	MIN. O.C. SPACING	LOADING TYPE	MIN. EDGE DISTANCE	ALLOWABLE LOAD (LB)		
SOLID SET 3/16" SCREW CS	3KSI CONCRETE	1.375"	3.00"	TENSION	1.00"	323		
				SHEAR	1.00"	121		
		1.75"	4.00"	TENSION	1.75"	381		
				SHEAR	1.75"	227		
	GROUT FILLED CMU	1.75"	4.00"	TENSION	1.75"	310		
				SHEAR	1.75"	174		
	HOLLOW BLOCK	4.00"	1.25"	TENSION	2.50"	178		
					1.75"	172		
				SHEAR	2.50"	214		
					1.75"	171		
				1.00"	1.00"	109		
					2.50"	178		
6.00"		1.25"	TENSION	1.00"	167			
				2.50"	214			
			SHEAR	1.00"	109			
				2.50"	178			
			3KSI CONCRETE	1.75"	3.00"	TENSION	3.00"	505
						SHEAR	1.25"	392
GROUT FILLED CMU	1.75"	3.00"	TENSION	3.00"	645			
				1.25"	172			
			SHEAR	3.00"	494			
				1.25"	320			
HOLLOW BLOCK	1.25"	3.00"	TENSION	3.00"	448			
				1.25"	195			
			SHEAR	3.00"	145			
				1.25"	139			
			WOOD (G=0.55)	1.50"	3.00"	TENSION	3.00"	309
						SHEAR	1.25"	134
WOOD (G=0.42)	1.50"	3.00"	TENSION	0.75"	411			
				SHEAR ⊥	0.75"	318		
			SHEAR ⊥	0.75"	373			
				0.75"	220			



1
3 NTS SECTION VIEW

NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.

DRILL BIT SCHEDULE

SCREW TYPE	DRILL BIT DIAMETER
ALL 5/16" SCREWS	1/4"
ALL 1/4" SCREWS	3/16"
ALL 3/16" SCREWS	5/32"
ALL #14 MALE & FEMALE SCREWS	7/32"

CAPACITY TABLE NOTES:

- INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS DOCUMENT
- CLEAN HOLES OF DEBRIS AND DUST BEFORE INSTALLATION OF ANCHOR
- ANCHORS SHALL NOT BE INSTALLED BEFORE THE CONCRETE HAS DEVELOPED ITS DESIGN STRENGTH
- ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 355.2
- SEE REMAINING SHEETS HEREIN FOR SCREW LENGTH OPTIONS AND OTHER SPECIFICATIONS
- ⊥ = PERPENDICULAR TO WOOD GRAIN

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

APRIL 24, 2024

RICHARD NEET
LICENSE
No. P.E. 86488
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
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THE HILLMAN GROUP, INC.
1590 NW 27TH AVE
POMPANO BEACH, FL 33069
(954) 984-0116
HILLMAN GROUP SOLID SET ANCHORS
CONCRETE, MASONRY AND WOOD SUBSTRATES
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

REMARKS	DATE	DRWN	CHKD
PREV. SUBMITTAL (23-50606)	06/22/23	ERAMR	RVMN
2023 FCC UPDATE	02/23/24	MRT	ERVFN

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ALLOWABLE SCREW CAPACITIES (PAGE 3 OF 3):

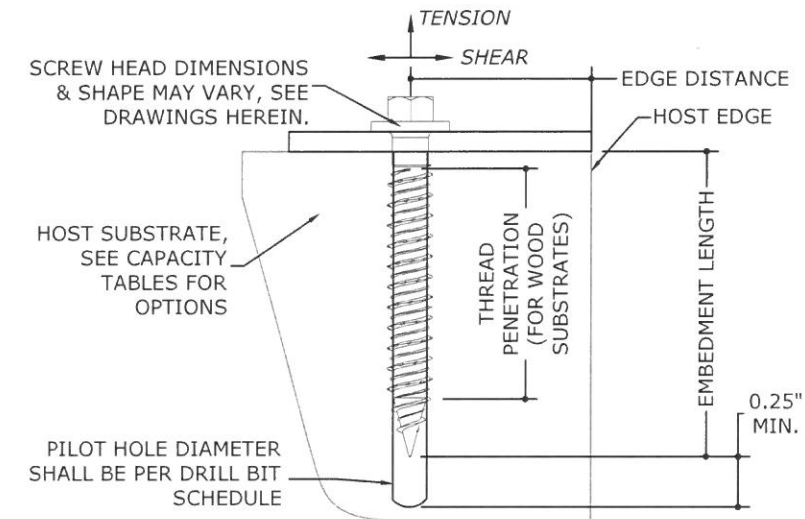
CS = CARBON STEEL
SS = STAINLESS STEEL

ANCHOR	SUBSTRATE	EMBEDMENT	MIN. O.C. SPACING	LOADING TYPE	MIN. EDGE DISTANCE	ALLOWABLE LOAD (LB)
SOLID SET 1/4" SCREW 410 SS	3KSI CONCRETE	1.75"	3.00"	TENSION	3.00"	460
				SHEAR	1.25"	355
			4.00"	TENSION	3.00"	632
				SHEAR	1.00"	230
			6.00"	TENSION	1.00"	349
				SHEAR	1.00"	173
	GROUT FILLED CMU	1.75"	3.00"	TENSION	3.00"	429
				SHEAR	1.25"	361
			4.00"	TENSION	3.00"	387
				SHEAR	1.25"	234
			6.00"	TENSION	2.50"	409
				SHEAR	2.50"	343
	HOLLOW BLOCK	1.25"	3.00"	TENSION	3.00"	159
				SHEAR	1.25"	148
			4.00"	TENSION	3.00"	271
				SHEAR	1.25"	137
			6.00"	TENSION	2.50"	155
				SHEAR	2.50"	232
	WOOD (G=0.55)	1.50"	3.00"	TENSION	2.50"	155
				SHEAR	2.50"	232
WOOD (G=0.42)	1.50"	3.00"	TENSION	0.75"	366	
			SHEAR ⊥	0.75"	228	
SOLID SET #14 MALE ANCHOR 304 SS	3KSI CONCRETE	1.75"	3.00"	TENSION	3.00"	391
				SHEAR	1.25"	369
			4.00"	TENSION	3.00"	501
				SHEAR	1.25"	202
	GROUT FILLED CMU	1.75"	3.00"	TENSION	3.00"	271
				SHEAR	1.25"	271
			4.00"	TENSION	3.00"	500
				SHEAR	1.25"	214
	HOLLOW BLOCK	1.25"	3.00"	TENSION	3.00"	92
				SHEAR	1.25"	92
			4.00"	TENSION	3.00"	301
				SHEAR	1.25"	139
	WOOD (G=0.55)	1.50"	3.00"	TENSION	0.75"	471
				SHEAR ⊥	0.75"	280
	WOOD (G=0.42)	1.50"	3.00"	TENSION	0.75"	389
				SHEAR ⊥	0.75"	278

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0319.05
Expiration Date 09/22/2027
By Ishag I. Chande
Miami-Dade Product Control

RICHARD NEET, P.E.
PE# 86488 CA# 9885
APRIL 24, 2024

PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. P.E. 88488



1 4
NTS SECTION VIEW

NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.

DRILL BIT SCHEDULE

SCREW TYPE	DRILL BIT DIAMETER
ALL 5/16" SCREWS	1/4"
ALL 1/4" SCREWS	3/16"
ALL 3/16" SCREWS	5/32"
ALL #14 MALE & FEMALE SCREWS	7/32"

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CAPACITY TABLE NOTES:

- INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS DOCUMENT
- CLEAN HOLES OF DEBRIS AND DUST BEFORE INSTALLATION OF ANCHOR
- ANCHORS SHALL NOT BE INSTALLED BEFORE THE CONCRETE HAS DEVELOPED ITS DESIGN STRENGTH
- ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 355.2
- SEE REMAINING SHEETS HEREIN FOR SCREW LENGTH OPTIONS AND OTHER SPECIFICATIONS
- ⊥ = PERPENDICULAR TO WOOD GRAIN

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LENGTH ID MARKING ON ANCHOR HEAD	#	A	B	C	D	E	F	G	H	I	J	K	L	M
FROM	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"
UP TO, BUT NOT INCLUDING	1 1/2"	2"	2 1/2"	3	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"	8"

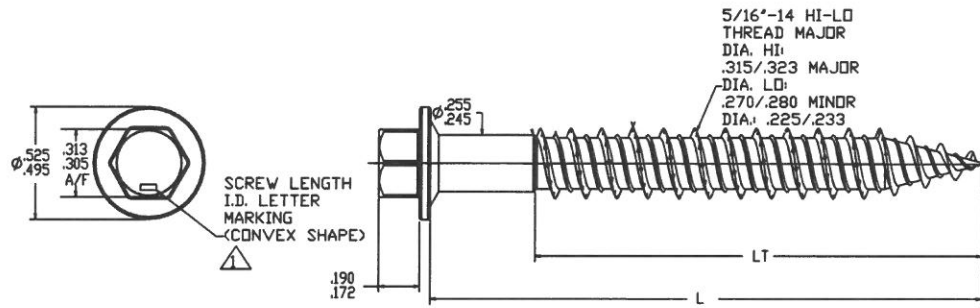
5/16" HEX HEAD SCREW DIMENSIONS

NOMINAL LENGTH	L	LT
1 3/4"	1.70-1.75"	1.70-1.75"
2 1/4"	2.20-2.25"	1.82-1.859
2 3/4"	2.65-2.75"	1.82-1.859
3 1/4"	3.15-3.25"	1.82-1.859
3 3/4"	3.65-3.75"	1.82-1.859
4"	3.90-4.0"	1.82-1.859
5"	4.90-5.0"	1.82-1.859
6"	5.90-6.0"	1.82-1.859

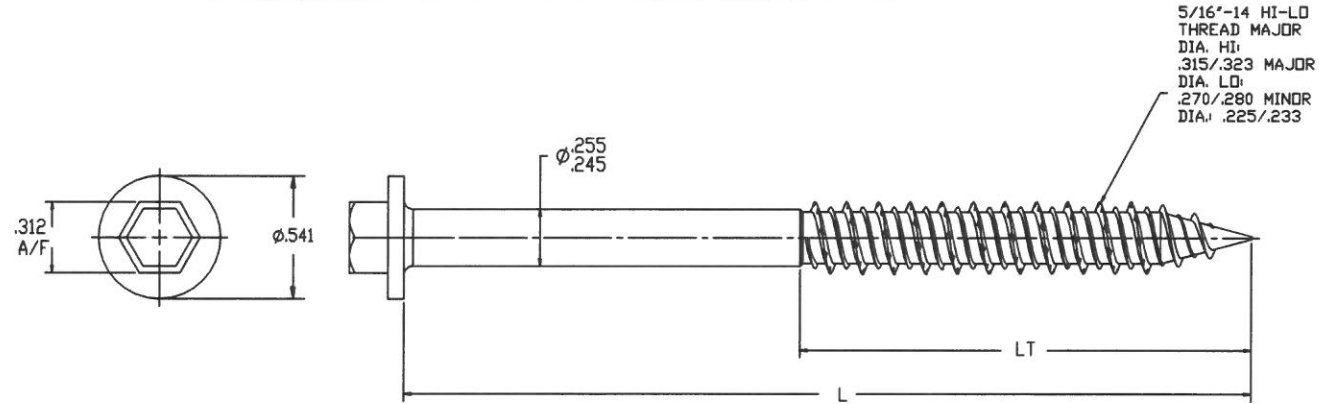
NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID-SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.

5/16" FLAT HEAD SCREW DIMENSIONS

NOMINAL LENGTH	L	LT
1 3/4"	1.70-1.75"	1.45-1.50"
2 1/4"	2.20-2.25"	1.82-1.859
2 3/4"	2.65-2.75"	1.82-1.859
3 1/4"	3.15-3.25"	1.82-1.859
3 3/4"	3.65-3.75"	1.82-1.859
4"	3.90-4.0"	1.82-1.859
5"	4.90-5.0"	1.82-1.859
6"	5.90-6.0"	1.82-1.859



5/16" SOLID SET™ HEX WASHER HEAD REDUCED INDENTED SCREW (CARBON STEEL)



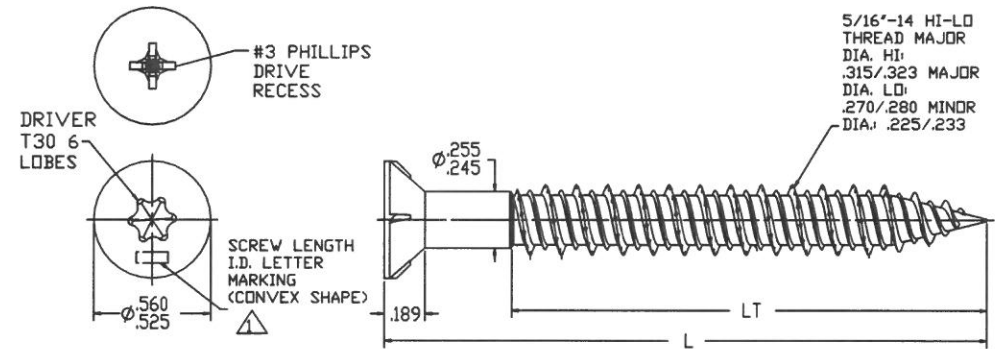
5/16" SOLID SET™ HEX HEAD SCREW (CARBON STEEL)

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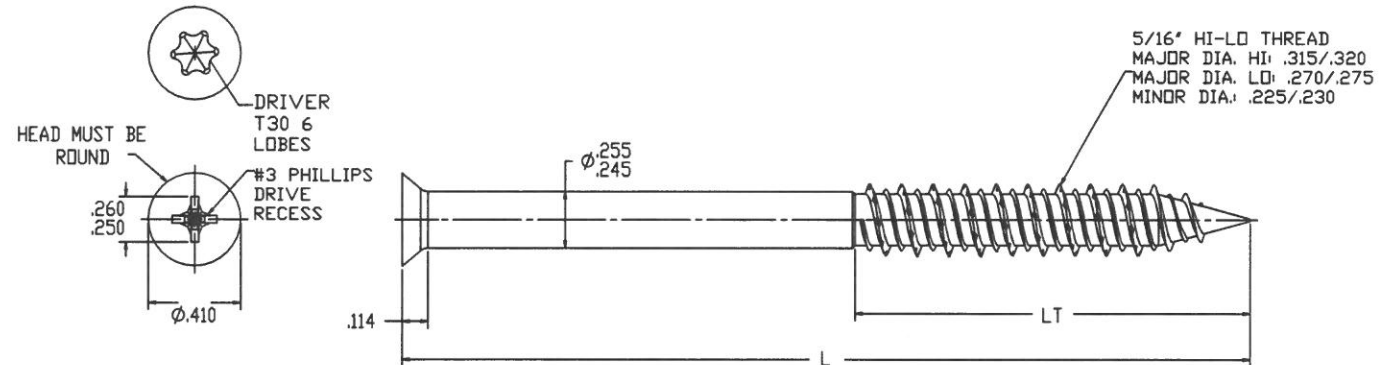
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By *Ishag I. Chande*
Miami-Dade Product Control



5/16" SOLID SET™ FLAT HEAD COUNTERSUNK SCREW (CARBON STEEL)



5/16" SOLID SET™ REDUCED FLAT HEAD SCREW (CARBON STEEL)

NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES

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LENGTH ID MARKING ON ANCHOR HEAD	#	A	B	C	D	E	F	G	H	I	J	K	L	M
FROM	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"
UP TO, BUT NOT INCLUDING	1 1/2"	2"	2 1/2"	3	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"	8"

1/4" HEX HEAD SCREW DIMENSIONS

NOMINAL LENGTH	L	LT
1 1/4"	1.20-1.25"	1.18-1.22"
1 3/4"	1.70-1.75"	1.70-1.75"
2 1/4"	2.20-2.25"	1.82-1.859
2 3/4"	2.65-2.75"	1.82-1.859
3 1/4"	3.15-3.25"	1.82-1.859
3 3/4"	3.65-3.75"	1.82-1.859
4"	3.90-4.0"	1.82-1.859
5"	4.90-5.0"	1.82-1.859
6"	5.90-6.0"	1.82-1.859

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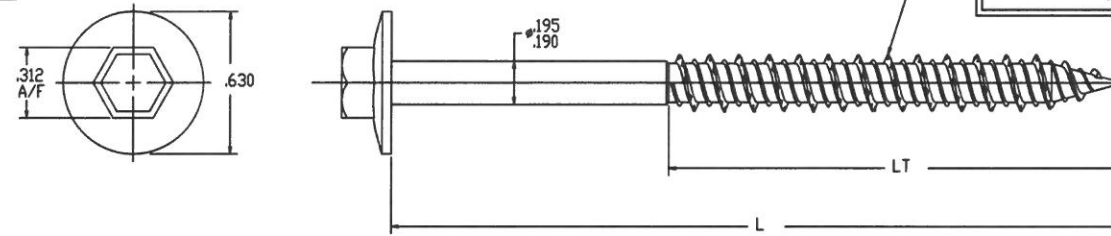
1/4" FLAT HEAD SCREW DIMENSIONS

NOMINAL LENGTH	L	LT
1 1/4"	1.20-1.25"	1.18-1.22"
1 3/4"	1.70-1.75"	1.70-1.75"
2 1/4"	2.20-2.25"	1.82-1.859
2 3/4"	2.65-2.75"	1.82-1.859
3 1/4"	3.15-3.25"	1.82-1.859
3 3/4"	3.65-3.75"	1.82-1.859
4"	3.90-4.0"	1.82-1.859
5"	4.90-5.0"	1.82-1.859
6"	5.90-6.0"	1.82-1.859

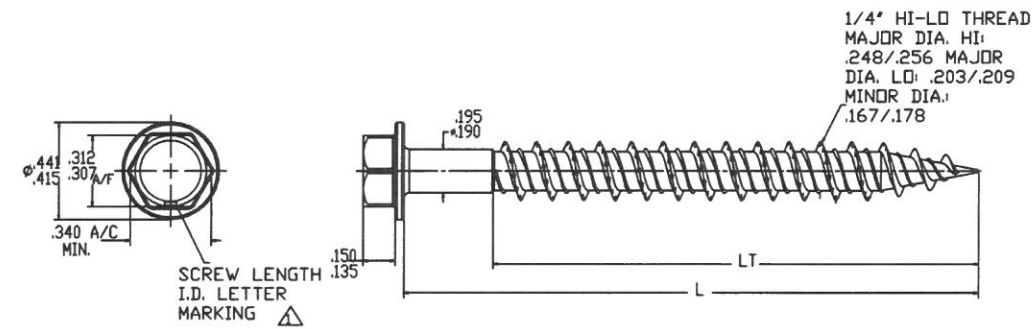
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APRIL 24, 2024

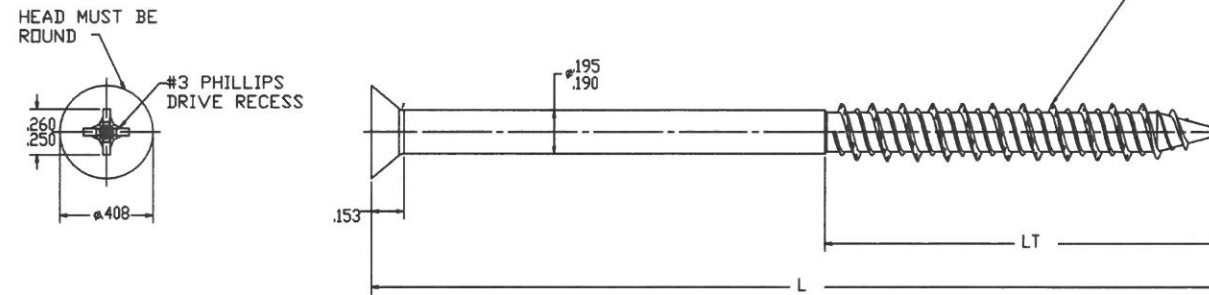
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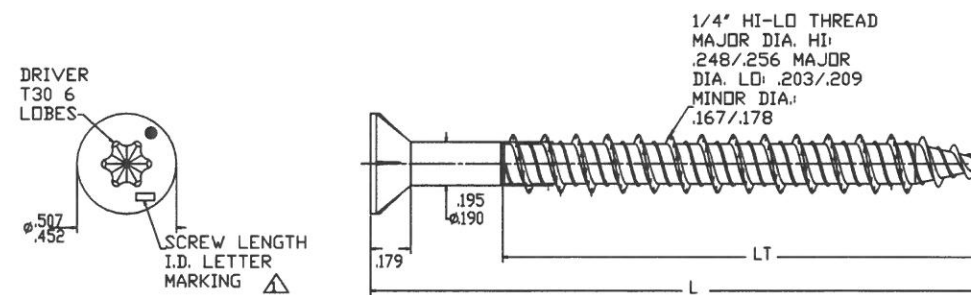
1/4" SOLID SET™ LG HEX WASHER HEAD SCREW (CS AND 410 SS)



1/4" SOLID SET™ HEX WASHER HEAD UNIVERSAL DRIVE SCREW (CS AND 410 SS)



1/4" SOLID SET™ FLAT HEAD SCREW (CS AND 410 SS)



1/4" SOLID SET™ FLAT HEAD-FULL THREAD STAR DRIVE SCREW (CS AND 410 SS)

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NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES

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LENGTH ID MARKING ON ANCHOR HEAD	#	A	B	C	D	E	F	G	H	I	J	K	L	M
FROM	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"
UP TO, BUT NOT INCLUDING	1 1/2"	2"	2 1/2"	3	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"	8"

3/16" HEX HEAD SCREW DIMENSIONS

NOMINAL LENGTH	L	LT
1 1/4"	1.20-1.25"	1.18-1.22"
1 3/4"	1.70-1.75"	1.70-1.75"
2 1/4"	2.20-2.25"	1.82-1.859
2 3/4"	2.65-2.75"	1.82-1.859
3 1/4"	3.15-3.25"	1.82-1.859
3 3/4"	3.65-3.75"	1.82-1.859
4"	3.90-4.0"	1.82-1.859
5"	4.90-5.0"	1.82-1.859
6"	5.90-6.0"	1.82-1.859

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3/16" FLAT HEAD SCREW DIMENSIONS

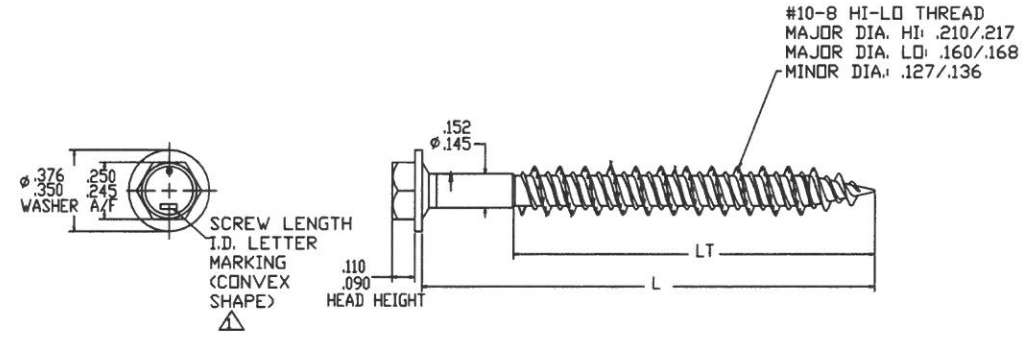
NOMINAL LENGTH	L	LT
1 1/4"	1.20-1.25"	1.18-1.22"
1 3/4"	1.70-1.75"	1.70-1.75"
2 1/4"	2.20-2.25"	1.82-1.859
2 3/4"	2.65-2.75"	1.82-1.859
3 1/4"	3.15-3.25"	1.82-1.859
3 3/4"	3.65-3.75"	1.82-1.859
4"	3.90-4.0"	1.82-1.859
5"	4.90-5.0"	1.82-1.859

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PE# 86488 CA# 9885

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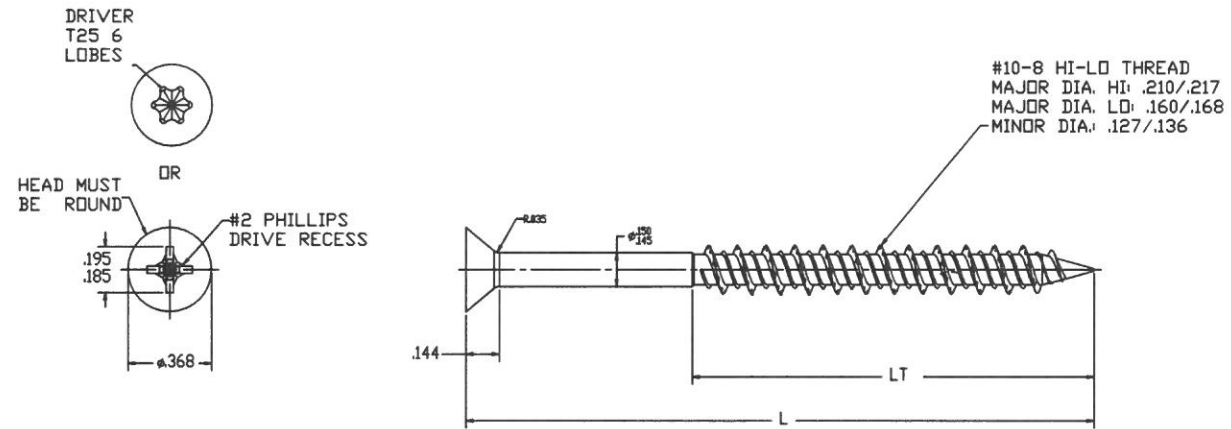
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Miami-Dade Product Control



3/16" SOLID SET™ RECESS INDENTED HEX WASHER HEAD SCREW (CARBON STEEL)

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3/16" SOLID SET™ FLAT HEAD SCREW (CARBON STEEL)

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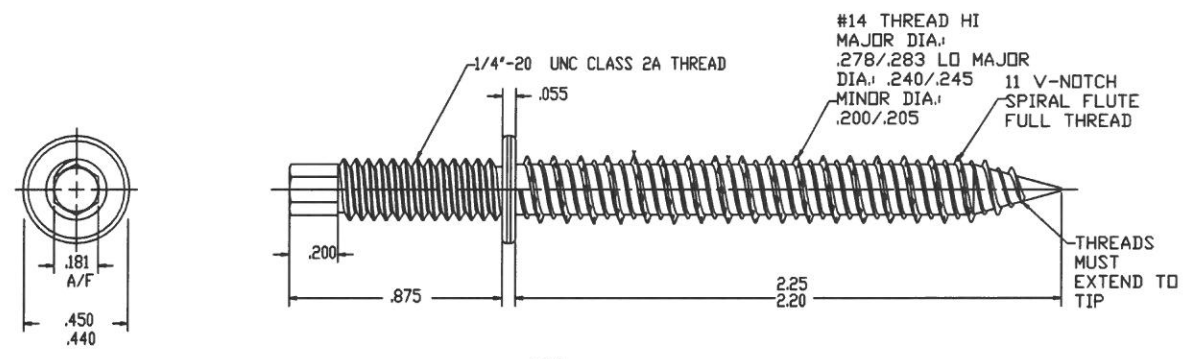
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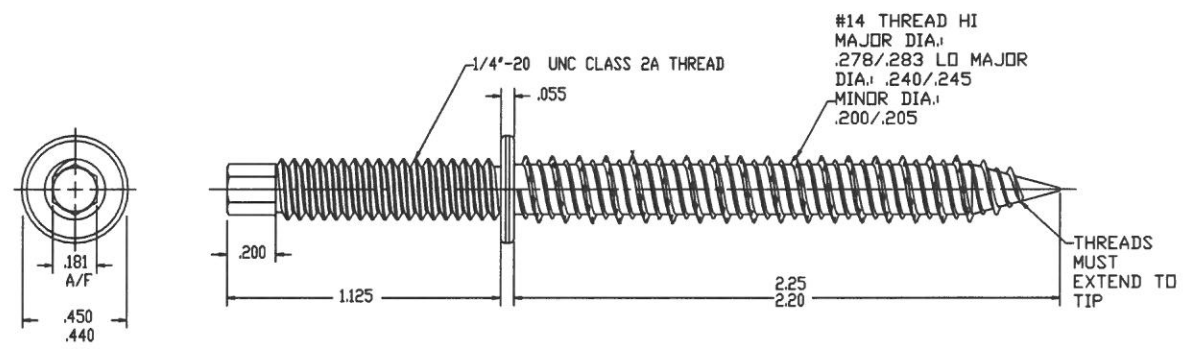
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#14 MALE ANCHOR SCREW DIMENSIONS

NOMINAL LENGTH	L	LT
2 1/4"	2.20-2.25"	2.20-2.25"
3 1/4"	3.15-3.25"	2.20-2.25"
4 1/2"	3.90-4.0"	3.0-3.10"
5 1/2"	4.90-5.0"	3.0-3.10"
6 1 1/2"	5.90-6.0"	3.0-3.10"
7 3/8"	7.325-7.375"	3.0-3.10"



#14 MALE SOLID SET™ ANCHOR (CS AND 304 SS)



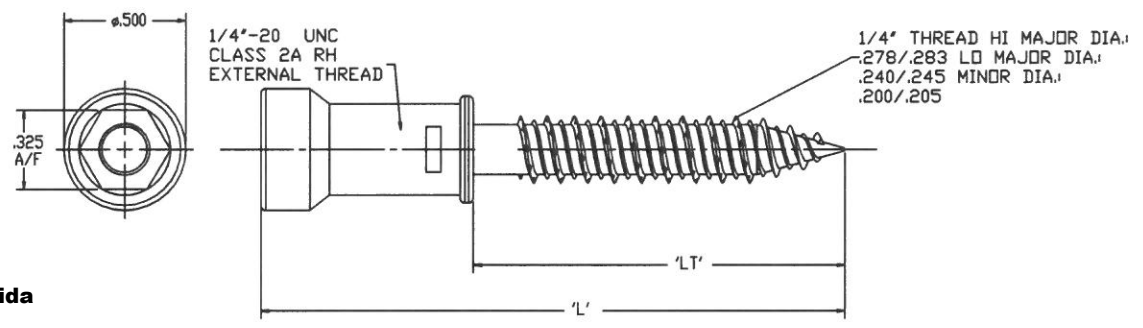
#14 MALE SOLID SET™ ANCHOR 1-1/8" STUD (CARBON STEEL)

NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID-SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.

#14 FEMALE ANCHOR SCREW DIMENSIONS

NOMINAL LENGTH	L	LT
1 3/4"	1.70-1.75"	full thread
2 5/8"	2.575-2.625"	2.0-2.13"
3 1/4"	3.20-3.25"	3.0-3.10"
4 1/2"	3.90-4.0"	3.0-3.10"
5 1/2"	4.90-5.0"	3.0-3.10"
6 5/8"	6.575-6.625"	3.0-3.10"
7 3/8"	7.325-7.375"	3.0-3.10"

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#14 FEMALE SOLID SET™ ANCHOR (CARBON STEEL)

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