



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. **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., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each box shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved or MDCPCA", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 22-1011.03** and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

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



NOA No: 23-0714.03
Expiration Date: September 22, 2027
Approval Date: September 28, 2023
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.



**Carlos M. Utrera, P.E.
Product Control Examiner**

NOA No: 23-0714.03

Expiration Date: September 22, 2027

Approval Date: September 28, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New evidence submitted

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).

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**Carlos M. Utrera, P.E.
Product Control Examiner**

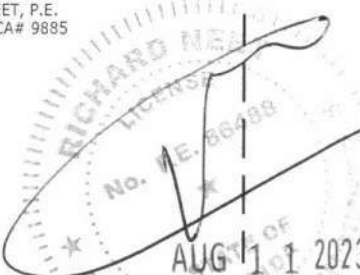
**NOA No: 23-0714.03
Expiration Date: September 22, 2027
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THE HILLMAN GROUP, INC.
HILLMAN SOLID SET™ / ALL-POINTS SOLID SET™ / HILLMAN POWER PRO®
CARBON STEEL & STAINLESS STEEL SCREWS
(CONCRETE, MASONRY & WOOD SUBSTRATES)

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.

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



AUGUST 11, 2023



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 SEVENTH EDITION (2020) 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.


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:

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0714.03
Expiration Date 09/22/2027
By 
Miami-Dade Product Control



POSTAL ADDRESS:
401 W. ATLANTIC AVE R10 BOX 219
DELRAY BEACH, FL 33444
ENGINEERINGEXPRESS.COM

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
FLORIDA BUILDING CODE 7TH ED. (2020) | MD NOA


REMARKS	DRWN	CHKD	DATE
ORIG FL #39170.1 (20-25486)	RN	RN	06/15/21
INIT SUBMITTAL FOR NOA	EPN	RVN	04/14/22
REV PER MD COMMENTS	EPN	RVN	08/04/22
REV ADD ANCHOR VALUES	EPN	RVN	06/22/23
COPYRIGHT ENGINEERING EXPRESS®			
22-50606			
SCALE: NTS UNLESS NOTED			
1 OF 8			

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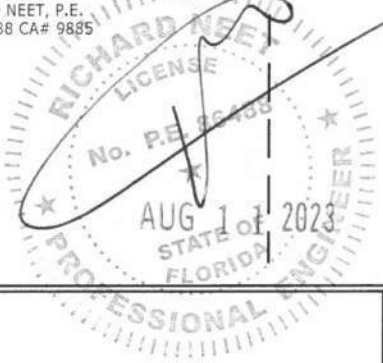
ALLOWABLE SCREW CAPACITIES (PAGE 1 OF 3):

CS = CARBON STEEL
SS = STAINLESS STEEL

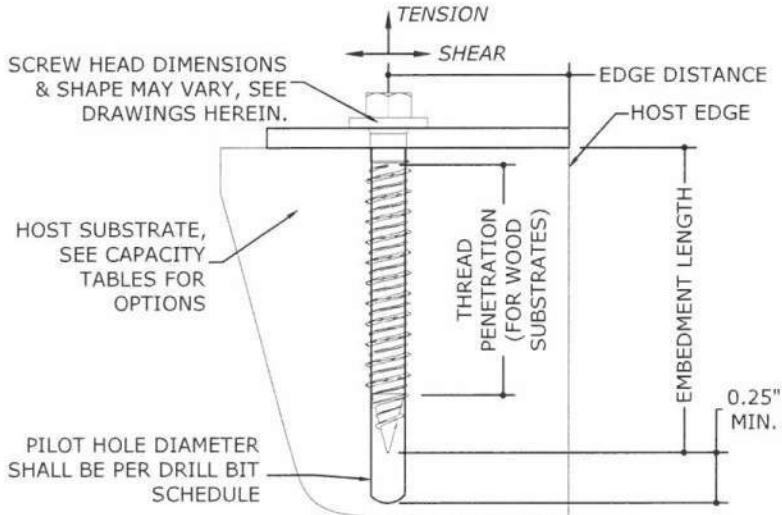
ANCHOR	SUBSTRATE	EMBEDMENT	MIN. O.C. SPACING	LOADING TYPE	MIN. EDGE DISTANCE	ALLOWABLE LOAD (LB)
SOLID SET 5/16" SCREW CS	3KSI CONCRETE	1.75"	5.00"	TENSION	3.00"	501
					1.25"	501
		2.00"	5.00"	SHEAR	3.00"	688
					1.25"	260
		2.25"	5.00"	TENSION	3.125"	743
				SHEAR	3.125"	780
	GROUT FILLED CMU	1.75"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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.03
Expiration Date 09/22/2027
By 
Miami-Dade Product Control

RICHARD NEET, P.E.
PE# 86488 CA# 9885
AUGUST 11, 2023



FL



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:

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

ENGINEERING EXPRESS
POSTAL ADDRESS:
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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
FLORIDA BUILDING CODE 7TH ED. (2020) | MD NOA

REMARKS	DRWN	CHKD	DATE
ORIG FL#39170.1 (20-25486)	RN	RN	06/15/21
INIT SUBMITTAL FOR NOA	EPR	RWN	04/14/22
REV PER MD COMMENTS	EPR	RWN	08/04/22
REV ADD ANCHOR VALUES	EPR/MR	RWN	06/22/23

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22-50606


SCALE: NTS UNLESS NOTED

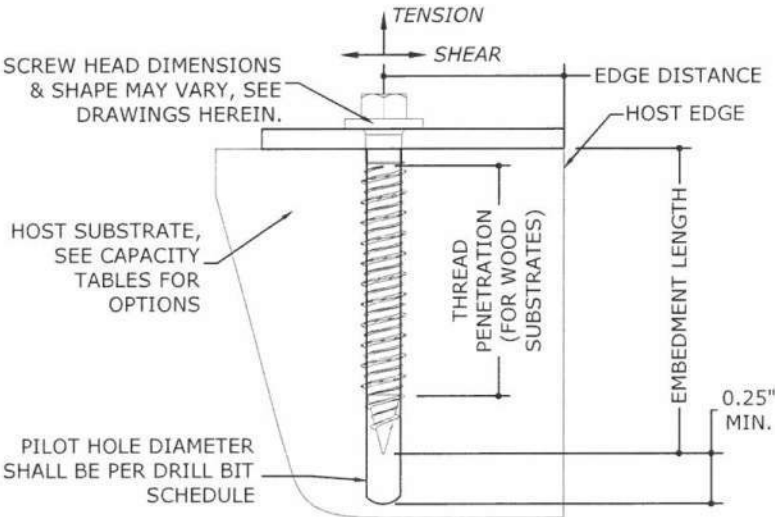
2

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	1.25"	4.00"	TENSION	2.50"	178
					1.75"	172
					1.00"	167
			SHEAR	2.50"	214	
				1.75"	171	
				1.00"	109	
		6.00"	TENSION	2.50"	178	
				1.00"	167	
			SHEAR	2.50"	214	
1.00"				109		
SOLID SET #14 MALE & FEMALE ANCHOR CS (VALUES ARE APPLICABLE TO BOTH ANCHORS)				3KSI CONCRETE	1.75"	3.00"
	1.25"	392				
	SHEAR	3.00"	645			
		1.25"	172			
	GROUT FILLED CMU	1.75"	3.00"	TENSION	3.00"	494
					1.25"	320
				SHEAR	3.00"	448
					1.25"	195
	HOLLOW BLOCK	1.25"	3.00"	TENSION	3.00"	145
					1.25"	139
				SHEAR	3.00"	309
					1.25"	134
	WOOD (G=0.55)	1.50"	3.00"	TENSION	0.75"	411
				SHEAR ⊥	0.75"	318
TENSION				0.75"	373	
SHEAR ⊥				0.75"	220	
WOOD (G=0.42)	1.50"	3.00"	TENSION	0.75"	373	
			SHEAR ⊥	0.75"	220	
			TENSION	0.75"	373	
			SHEAR ⊥	0.75"	220	

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.03
Expiration Date 09/22/2027
By 
Miami-Dade Product Control





1 TYPICAL SECTION
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.

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:

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3. ANCHORS SHALL NOT BE INSTALLED BEFORE THE CONCRETE HAS DEVELOPED ITS DESIGN STRENGTH
4. ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 355.2
5. SEE REMAINING SHEETS HEREIN FOR SCREW LENGTH OPTIONS AND OTHER SPECIFICATIONS
6. \perp = PERPENDICULAR TO WOOD GRAIN


<p>RICHARD NEET, P.E. PE# 86488 CA# 9885</p> <div style="text-align: center;"><p>FL</p></div>		<p style="text-align: right;">AUGUST 11, 2023</p>																																									
 <p>EDGE DISTANCE</p> <p>HOST EDGE</p> <p>EMBEDMENT LENGTH</p> <p>0.25" MIN.</p>		<p>ENGINEERING EXPRESS®</p> <p>POSTAL ADDRESS:</p> <p>401 W. ATLANTIC AVE R10 BOX 219 DELRAY BEACH, FL 33444 ENGINEERINGEXPRESS.COM</p>																																									
<p>SECTION VIEW</p> <p>"POWER SOLID SET". TRADEMARK</p>		<p>THE HILLMAN GROUP, INC.</p> <p>1590 NW 27TH AVE POMPANO BEACH, FL 33069 (954) 984-0116</p> <p>HILLMAN GROUP SOLID SET ANCHORS CONCRETE, MASONRY, AND WOOD SUBSTRATES FLORIDA BUILDING CODE 7TH ED. (2020) MD NO A</p>																																									
<p>MANUFACTURER'S PUBLISHED INSTALLATION</p> <p>ANCHOR</p> <p>DEVELOPED ITS DESIGN STRENGTH</p> <p>SUBSTRATES, AS DEFINED IN ACI 355.2</p> <p>AND OTHER SPECIFICATIONS</p>		<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>REMARKS</th><th>DRWN</th><th>CHKD</th><th>DATE</th></tr></thead><tbody><tr><td>ORIG FL#39170.1 (20-25486)</td><td>RN</td><td>RN</td><td>06/15/21</td></tr><tr><td>INIT SUBMITTAL FOR NOA</td><td>EPR</td><td>RWN</td><td>04/14/22</td></tr><tr><td>REV PER MD COMMENTS</td><td>EPR</td><td>RWN</td><td>08/04/22</td></tr><tr><td>REV. ADD ANCHOR VALUES</td><td>ER/MR</td><td>RWN</td><td>06/22/23</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>		REMARKS	DRWN	CHKD	DATE	ORIG FL#39170.1 (20-25486)	RN	RN	06/15/21	INIT SUBMITTAL FOR NOA	EPR	RWN	04/14/22	REV PER MD COMMENTS	EPR	RWN	08/04/22	REV. ADD ANCHOR VALUES	ER/MR	RWN	06/22/23																				
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<p>SCALE: NTS UNLESS NOTED</p>		<p>3 OF 3</p>																																									

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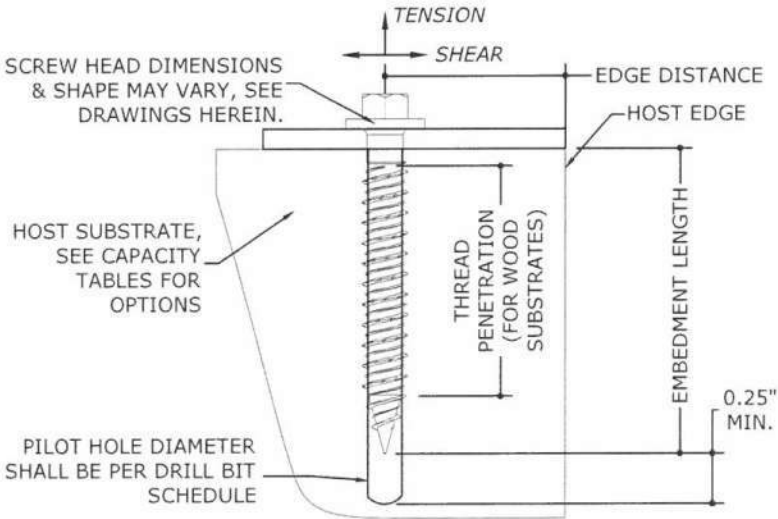
ALLOWABLE SCREW CAPACITIES (PAGE 3 OF 3):

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
					3.00"	632
			4.00"	SHEAR	1.25"	230
					1.00"	349
				TENSION	1.00"	173
	GROUT FILLED CMU	1.75"	3.00"	TENSION	1.00"	349
				SHEAR	1.00"	173
					1.00"	173
			4.00"	TENSION	1.00"	173
				SHEAR	1.00"	173
					1.00"	173
	HOLLOW BLOCK	1.25"	3.00"	TENSION	3.00"	429
				SHEAR	1.25"	361
					3.00"	387
			4.00"	SHEAR	1.25"	234
					2.50"	409
				TENSION	2.50"	343
			6.00"	TENSION	3.00"	159
				SHEAR	1.25"	148
					3.00"	271
SOLID SET #14 MALE ANCHOR 304 SS	3KSI CONCRETE	1.75"	3.00"	TENSION	1.25"	137
				SHEAR	2.50"	155
					2.50"	232
			4.00"	TENSION	2.50"	155
				SHEAR	2.50"	232
					2.50"	232
	GROUT FILLED CMU	1.75"	3.00"	TENSION	0.75"	366
				SHEAR	0.75"	228
					0.75"	315
			4.00"	TENSION	0.75"	189
				SHEAR	0.75"	391
					1.25"	369
	HOLLOW BLOCK	1.25"	3.00"	TENSION	3.00"	501
				SHEAR	1.25"	202
					3.00"	271
			4.00"	TENSION	1.25"	271
				SHEAR	3.00"	500
					1.25"	214
WOOD (G=0.55)	WOOD (G=0.55)	1.50"	3.00"	TENSION	3.00"	92
				TENSION	1.25"	92
			4.00"	TENSION	3.00"	301
				TENSION	1.25"	139
	WOOD (G=0.42)	1.50"	3.00"	TENSION	0.75"	471
				TENSION	0.75"	280
			4.00"	TENSION	0.75"	389
				TENSION	0.75"	278

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Expiration Date 09/22/2027
By 
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PE# 86488 CA# 9885
AUGUST 11, 2023



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"

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

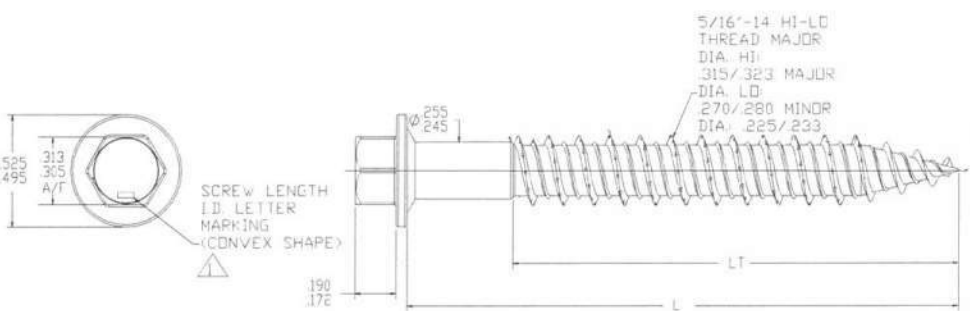
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1590 NW 27TH AVE
POMPANO BEACH, FL 33069
(954) 984-0116
HILLMAN GROUP SOLID SET ANCHORS
CONCRETE, MASONRY, AND WOOD SUBSTRATES
FLORIDA BUILDING CODE 7TH ED. (2020) | MD NOA

REMARKS	DRWN	CHKD	DATE
ORIG FL#35170.1 (20-25486)	RN	RN	06/15/21
INIT SUBMITTAL FOR NOA	EPR	RWN	04/14/22
REV PER MD COMMENTS	EPR	RWN	08/04/22
REV ADD ANCHOR VALUES	ERM/R	RWN	06/22/23

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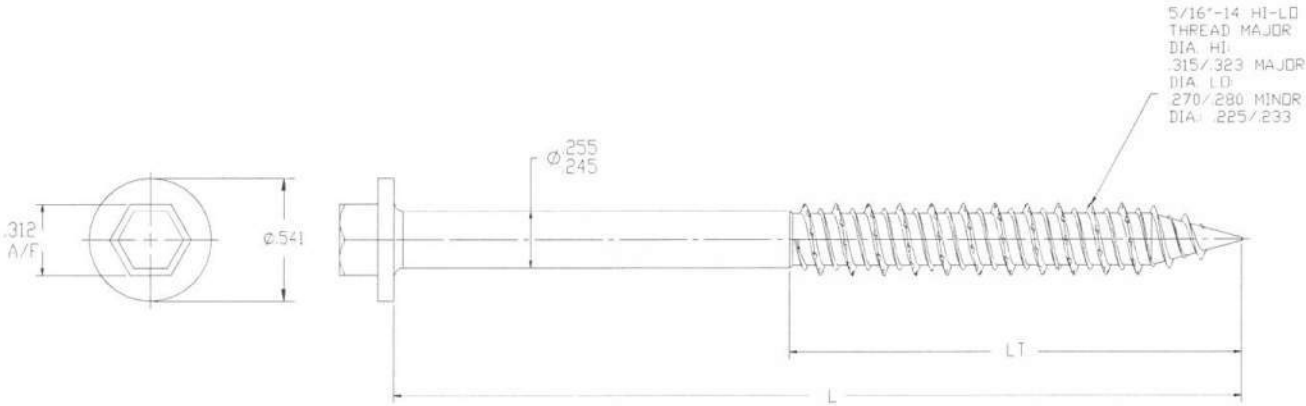
LENGTH ID MARKING ON ANCHOR HEAD	#	A	B	C	D	E	F	G	H	I	J	K	L	M
FROM	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"
UP TO, BUT NOT INCLUDING	1 1/2"	2"	2 1/2"	3	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"	8"



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

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

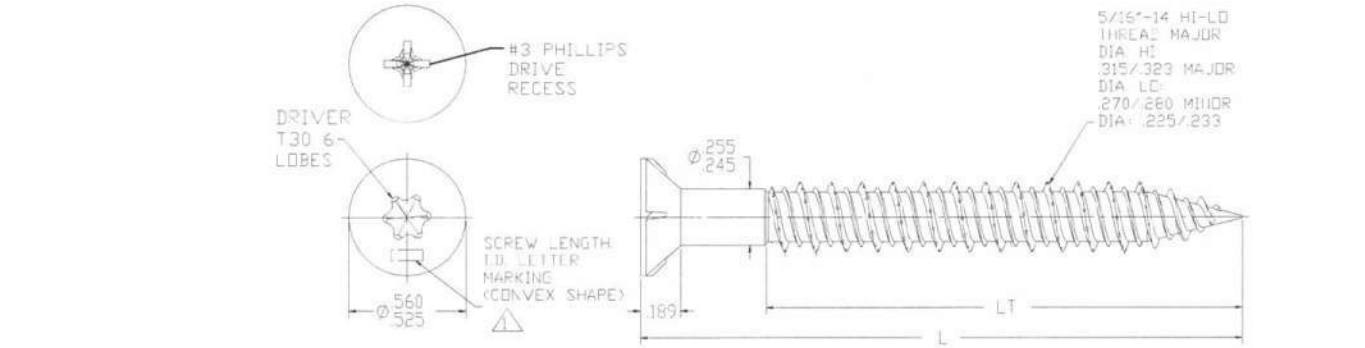


5/16" SOLID SET™ HEX HEAD SCREW (CARBON STEEL)

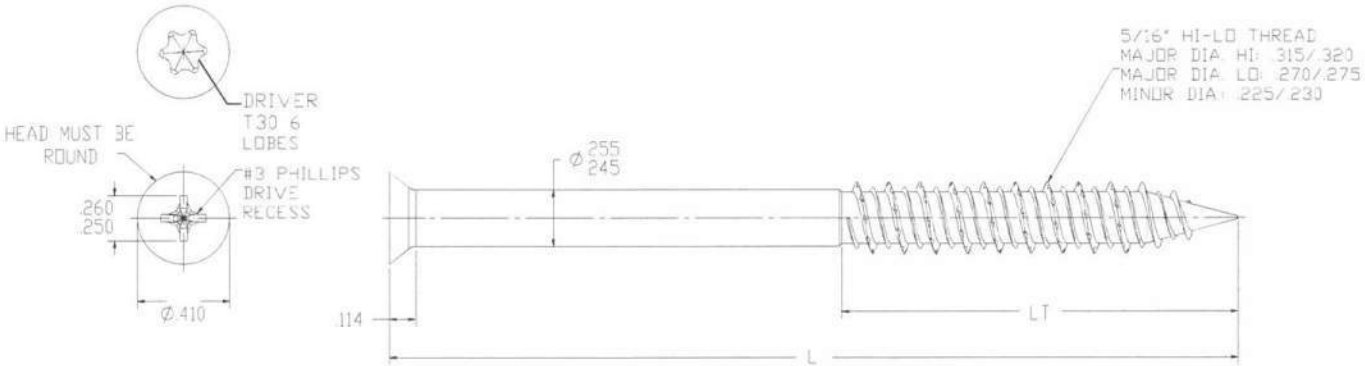
NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID-SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.

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™ FLAT HEAD COUNTERSUNK SCREW (CARBON STEEL)



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

RICHARD NEET, P.E.
PE# 66488 CA# 9885

AUGUST 11, 2023

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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

FLORIDA BUILDING CODE 7TH ED. (2020) | MD NOA

REMARKS	DATE	CHKD	DRWN
ORIG FL#39170.1 (20-25486)	06/15/21	RN	RN
INIT SUBMITTAL FOR NOA	04/14/22	RWN	RWN
REV PER MD COMMENTS	08/04/22	RWN	RWN
REV ADD ANCHOR VALUES	06/22/23	RWN	RWN

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NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES

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Miami-Dade Product Control

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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

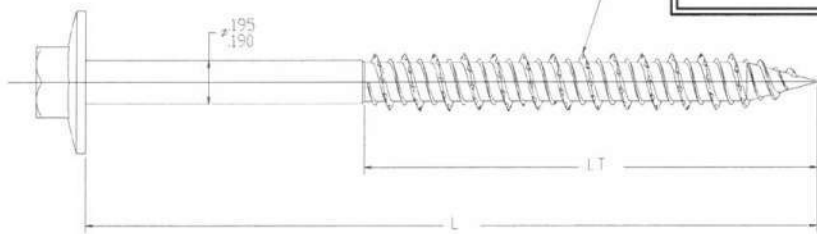
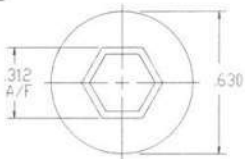
NOMINAL LENGTH	L	LT
1 1/4"	1.20-1.25"	1.18-1.22"
1 3/4"	1.70-1.75"	1.70-1.75"
2 1/4"	2.20-2.25"	1.82-1.859
2 3/4"	2.65-2.75"	1.82-1.859
3 1/4"	3.15-3.25"	1.82-1.859
3 3/4"	3.65-3.75"	1.82-1.859
4"	3.90-4.0"	1.82-1.859
5"	4.90-5.0"	1.82-1.859
6"	5.90-6.0"	1.82-1.859

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.

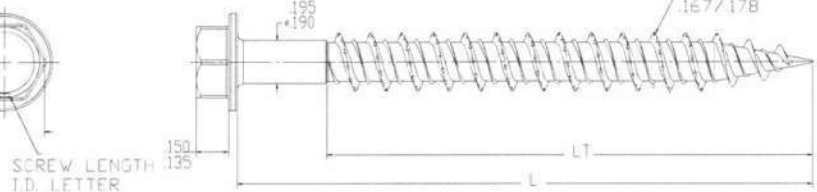
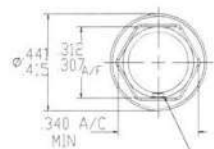
1/4" FLAT HEAD SCREW DIMENSIONS

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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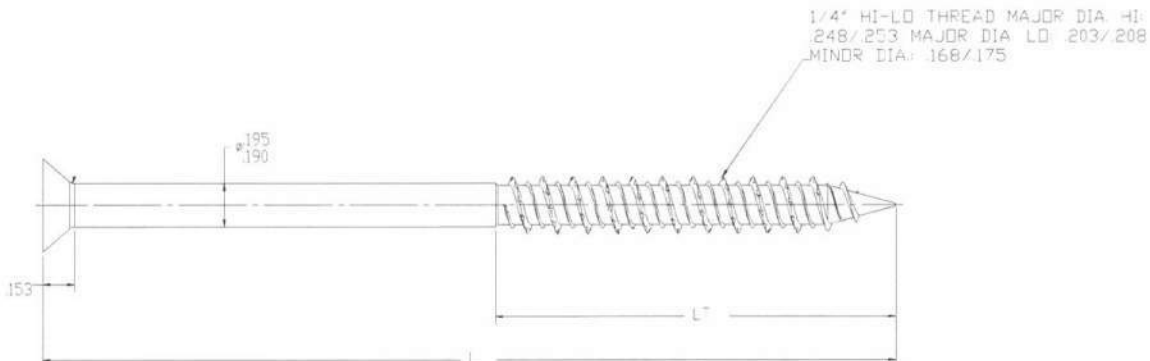
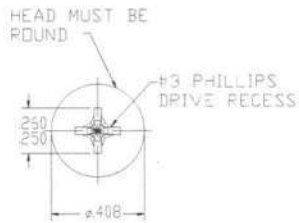


1/4" SOLID SET™ LG HEX WASHER HEAD SCREW (CS AND 410 SS)

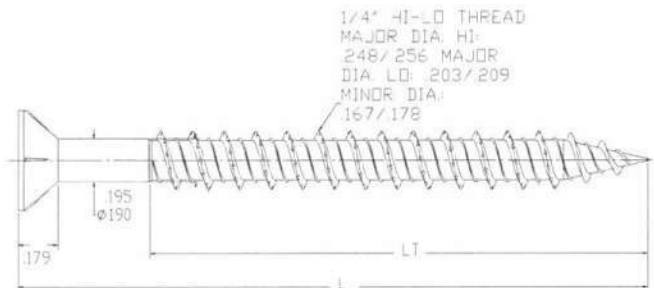
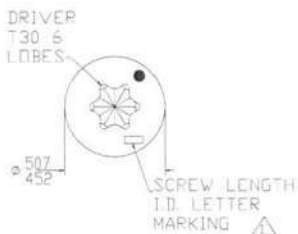


SCREW LENGTH
I.D. LETTER
MARKING

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



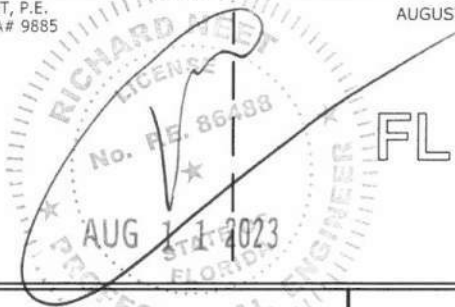
1/4" SOLID SET™ FLAT HEAD SCREW (CS AND 410 SS)



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

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

AUGUST 11, 2023



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POMPANO BEACH, FL 33069

(954) 984-0116

HILLMAN GROUP SOLID SET ANCHORS

CONCRETE, MASONRY, AND WOOD SUBSTRATES

FLORIDA BUILDING CODE 7TH ED. (2020) | MD NOA

REMARKS	DRWN	CHKD	DATE
ORIG FL439170.1 (20-25486)	RN	RN	06/15/21
INIT SUBMITTAL FOR NOA	EPR	RWN	04/14/22
REV PER MD COMMENTS	EPR	RWN	08/04/22
REV ADD ANCHOR VALUES	ERM/R	RWN	06/22/23

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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
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5"	4.90-5.0"	1.82-1.859
6"	5.90-6.0"	1.82-1.859

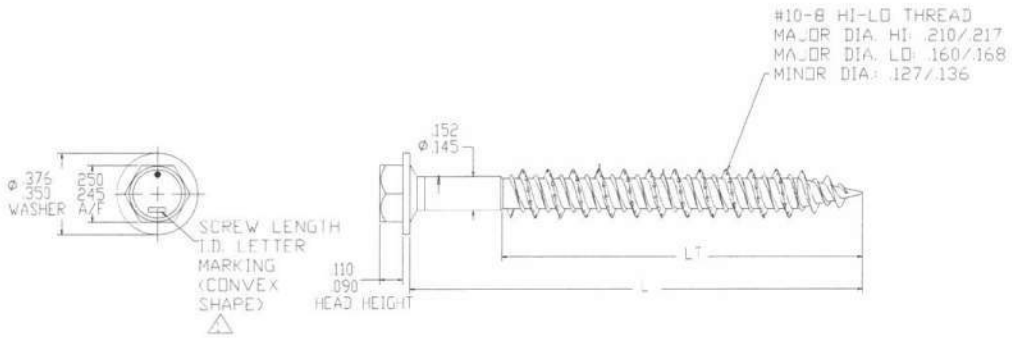
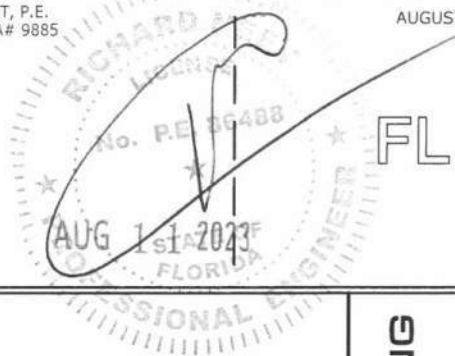
NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID-SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.

3/16" FLAT HEAD SCREW DIMENSIONS

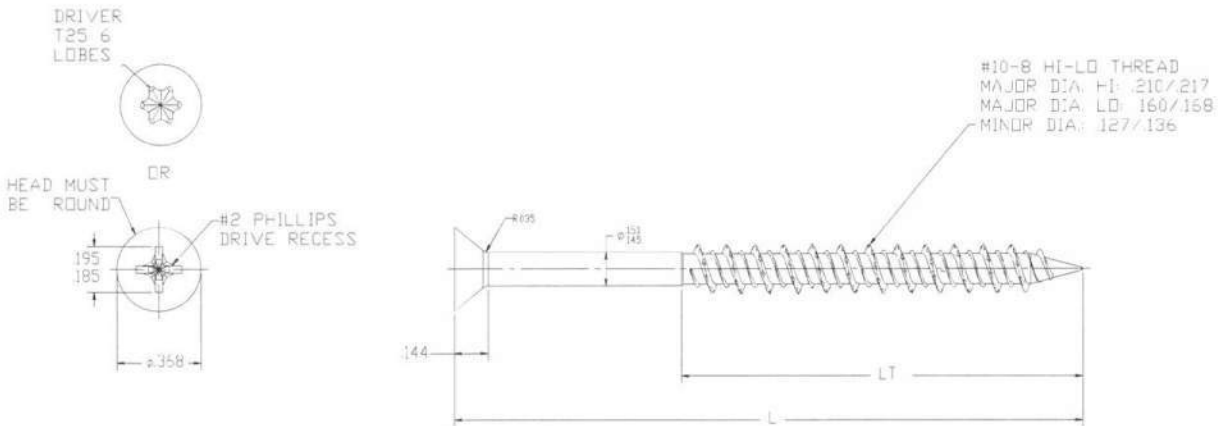
NOMINAL LENGTH	L	LT
1 1/4"	1.20-1.25"	1.18-1.22"
1 3/4"	1.70-1.75"	1.70-1.75"
2 1/4"	2.20-2.25"	1.82-1.859
2 3/4"	2.65-2.75"	1.82-1.859
3 1/4"	3.15-3.25"	1.82-1.859
3 3/4"	3.65-3.75"	1.82-1.859
4"	3.90-4.0"	1.82-1.859
5"	4.90-5.0"	1.82-1.859

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By 
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RICHARD NEET, P.E.
PE# 86488 CA# 9885
AUGUST 11, 2023



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



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

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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

FLORIDA BUILDING CODE 7TH ED. (2020) | MD NOA

REMARKS	DRWN	CHKD	DATE
ORIG FL439170.1 (20-25485)	RN	RN	06/15/21
INIT SUBMITTAL FOR NOA	EPR	RWN	04/14/22
REV PER MD COMMENTS	EPR	RWN	08/04/22
REV ADD ANCHOR VALUES	EPR/RN	RWN	06/22/23

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OF 8

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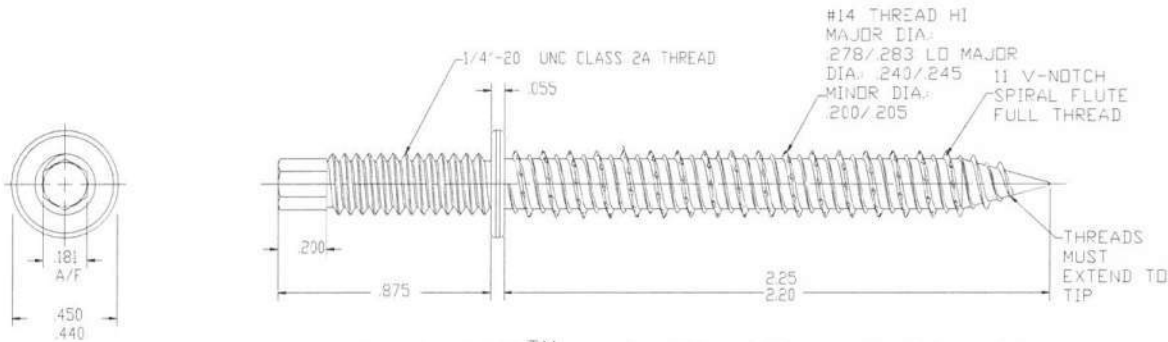
#14 MALE ANCHOR SCREW DIMENSIONS

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"

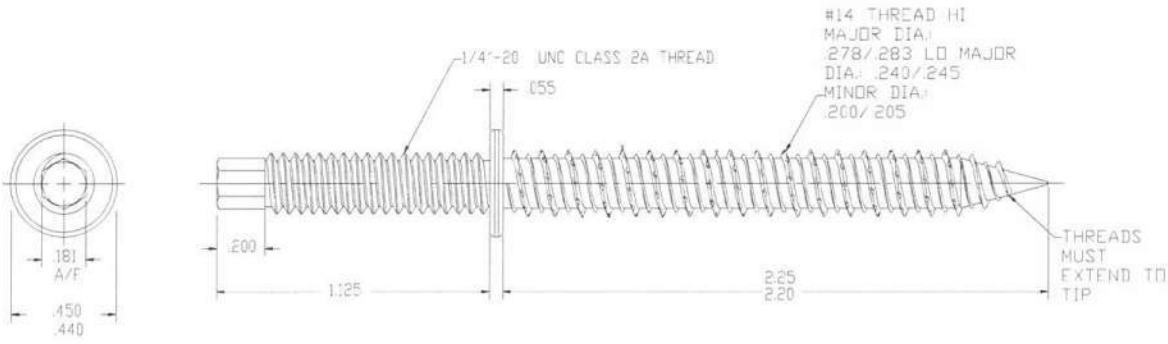
NOTE: FOR ALL ANCHORS, THE NAME "POWER PRO®" MAY BE USED INSTEAD OF "SOLID-SET". "POWER PRO®" IS A REGISTERED TRADEMARK NAME FOR THE HILLMAN GROUP.

#14 FEMALE ANCHOR SCREW DIMENSIONS

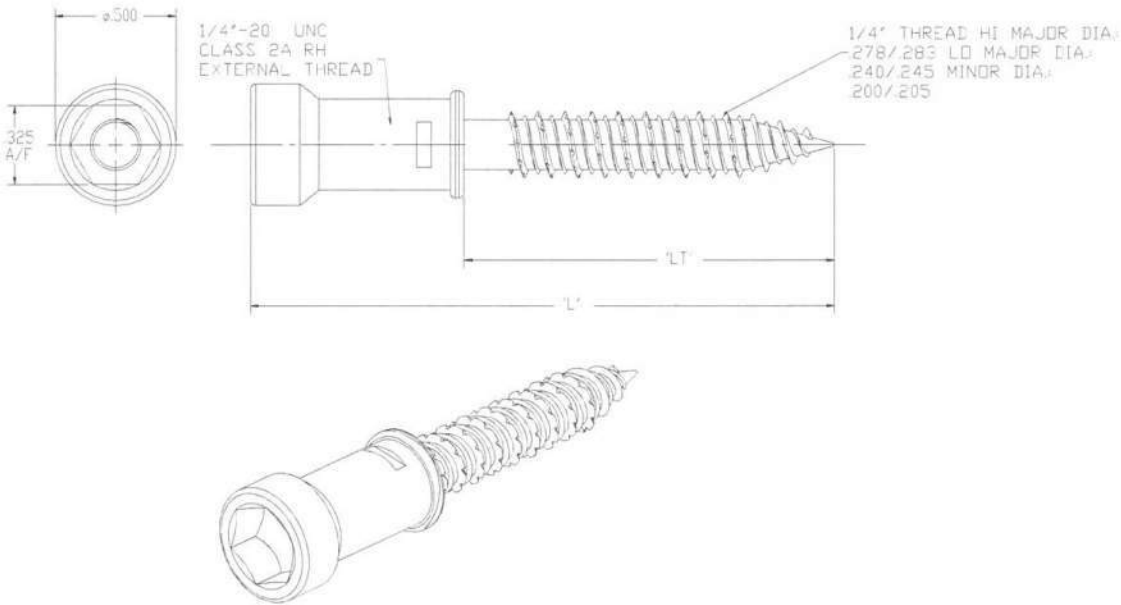
NOMINAL LENGTH	L	LT
1 3/4"	1.70-1.75"	full thread
2 5/8"	2.575-2.625"	2.0-2.13"
3 1/4"	3.20-3.25"	3.0-3.10"
4 1/2"	3.90-4.0"	3.0-3.10"
5 1/2"	4.90-5.0"	3.0-3.10"
6 5/8"	6.575-6.625"	3.0-3.10"
7 3/8"	7.325-7.375"	3.0-3.10"



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



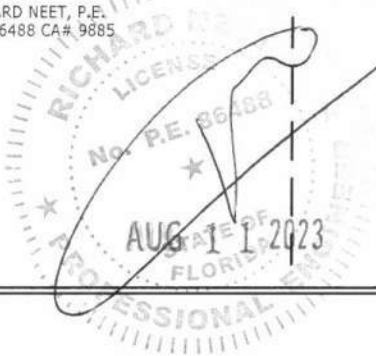
#14 MALE SOLID SET™ ANCHOR 1-1/8" STUD (CARBON STEEL)



#14 FEMALE SOLID SET™ ANCHOR (CARBON STEEL)

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

AUGUST 11, 2023



FL

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.03

Expiration Date 09/22/2027

By 
Miami-Dade Product Control

ENGINEERING EXPRESS®

POSTAL ADDRESS:
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DELRAY BEACH, FL 33444
ENGINEERINGEXPRESS.COM

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
FLORIDA BUILDING CODE 7TH ED. (2020) | MD NOA

REMARKS	DRWN	CHKD	DATE
ORIG FL#39170.1 (20-25486)	RN	RN	06/15/21
INIT SUBMITTAL FOR NOA	EPR	RWN	04/14/22
REV PER MD COMMENTS	EPR	RWN	08/04/22
REV ADD ANCHOR VALUES	ER/MR	RWN	06/22/23

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22-50606

SCALE: NTS UNLESS NOTED

8

OF 8

NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES