



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

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)

## NOTICE OF ACCEPTANCE (NOA)

Florida Storm Panel Supply, LLC  
14475 N.W. 26<sup>th</sup> Avenue  
Opa-Locka, Florida 33054

### 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 High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: 0.029" (min.) Galvanized Steel Storm Panels Shutter

**APPROVAL DOCUMENT:** Drawing No. AD12-32, titled "22 ga. Galvanized Steel Storm Panel-LMI", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., revision #4 dated August 09, 2023, signed and sealed by Yiping Wang, P.E., on August 10, 2023, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, 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.

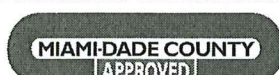
**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate 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 **renews NOA #23-0816.20** and consists of this page 1, evidence submitted 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 **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
01/09/2025

NOA No. 24-1127.03  
Expiration Date: 01/23/2030  
Approval Date: 01/09/2025  
Page 1

**Florida Storm Panels, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-1120.02**

**A. DRAWINGS**

1. *Drawing No. 02-868-111, titled " 22 ga Galvanized Steel Storm Panels ", sheets 1 through 4 of 4, prepared by Frank L. Bennardo, P.E., dated November 18, 2002, last revision dated January 02, 2003, signed and sealed by Frank L. Bennardo, P.E.*

**B. TESTS**

1. *Test report on: Uniform Static Air Pressure Test, Large Missile Impact Test and Cyclic Wind Pressure Test prepared by Construction Testing Corporation, Report No. 02-041, dated November 18, 2002, signed and sealed by Yamil G. Kuri, P.E.*
2. *Test report on fastener by Construction Testing Corporation, Report No. 02-007A, dated May 06, 2002, signed and sealed by Yamil G. Kuri, P.E.*
3. *Test report on Wood Bushings by Construction Testing Corporation, Report No. 02-038, dated October 07, 2002, signed and sealed by Yamil G. Kuri, P.E.*

**C. CALCULATIONS**

1. *22 ga. Galvanized Steel Storm Panels and Anchor Calculations, sheets 1 through 26 of 26, dated November 18, 2002, prepared by Frank L. Bennardo, P.E., signed and sealed by Frank L. Bennardo, P.E.*
2. *Anchor Calculations, 9 pages, dated November 18, 2002, prepared by Frank L. Bennardo, P.E., signed and sealed by Frank L. Bennardo, P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *Mill Certified Inspection Report.*
2. *Certified Tensile Test Report issued by Certified Testing Laboratory, Report Number 1098H, dated October 29, 2002, signed and sealed by Ramesh Patel, P.E.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0817.03**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

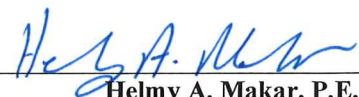
1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

  
\_\_\_\_\_  
Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 24-1127.03  
Expiration Date: 01/23/2030  
Approval Date: 01/09/2025



**Florida Storm Panels, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0410.01**

**A. DRAWINGS**

1. *Drawing No. AD12-32, titled " 22 ga. Galvanized Steel Storm Panel-LMI ", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., dated April 02, 2012, signed and sealed by Yiping Wang, P.E., on April 06, 2012.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Dept. of Permitting, Environment, and Regulatory Affairs.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-1210.01**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #15-0615.06**

**A. DRAWINGS**


1. *Drawing No. AD12-32, titled " 22 ga. Galvanized Steel Storm Panel-LMI ", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., last revision #1 dated May 27, 2015, signed and sealed by Yiping Wang, P.E., on June 02, 2015.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 24-1127.03  
Expiration Date: 01/23/2030  
Approval Date: 01/09/2025

**Florida Storm Panels, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #17-1017.19**

**A. DRAWINGS**

1. *Drawing No. AD12-32, titled " 22 ga. Galvanized Steel Storm Panel-LMI ", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., on September 29, 2017.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Letter of Compliance with the FBC, 2017 Edition, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., on September 29, 2017.*

**7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #18-1114.03**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**


1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 24-1127.03  
Expiration Date: 01/23/2030  
Approval Date: 01/09/2025

**Florida Storm Panels, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #20-0107.04**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Letter of Compliance with the FBC, 2017 Edition, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., on September 29, 2017.*

**9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #20-1102.14**

**A. DRAWINGS**

1. *Drawing No. AD12-32, titled " 22 ga. Galvanized Steel Storm Panel-LMI ", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., revision #3 dated October 28, 2020, signed and sealed by Yiping Wang, P.E., on October 28, 2020.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Letter of Compliance with the FBC, 2020 Edition, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., on October 28, 2020.*



**Helmy A. Makar, P.E., M.S.**  
**Product Control Section Supervisor**  
**NOA No. 24-1127.03**  
**Expiration Date: 01/23/2030**  
**Approval Date: 01/09/2025**

**Florida Storm Panels, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**10. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #23-0816.20**

**A. DRAWINGS**

1. Drawing No. AD12-32, titled " 22 ga. Galvanized Steel Storm Panel-LMI ", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., revision #4 dated August 09, 2023, signed and sealed by Yiping Wang, P.E., on August 10, 2023.

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Letter of Compliance with the FBC, 2023 Edition, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., on August 09, 2023.*

**11. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

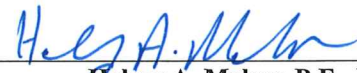
1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

**E. MATERIAL CERTIFICATIONS**

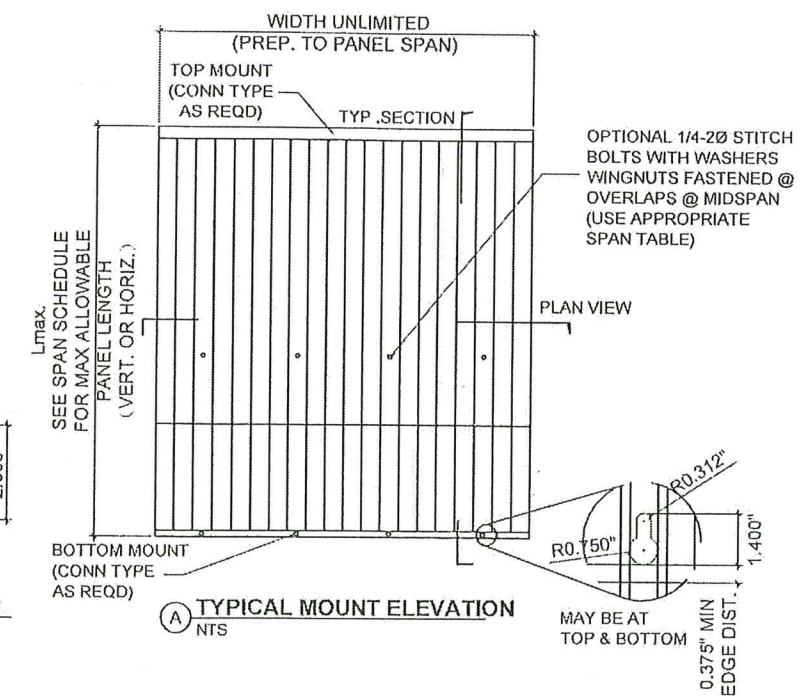
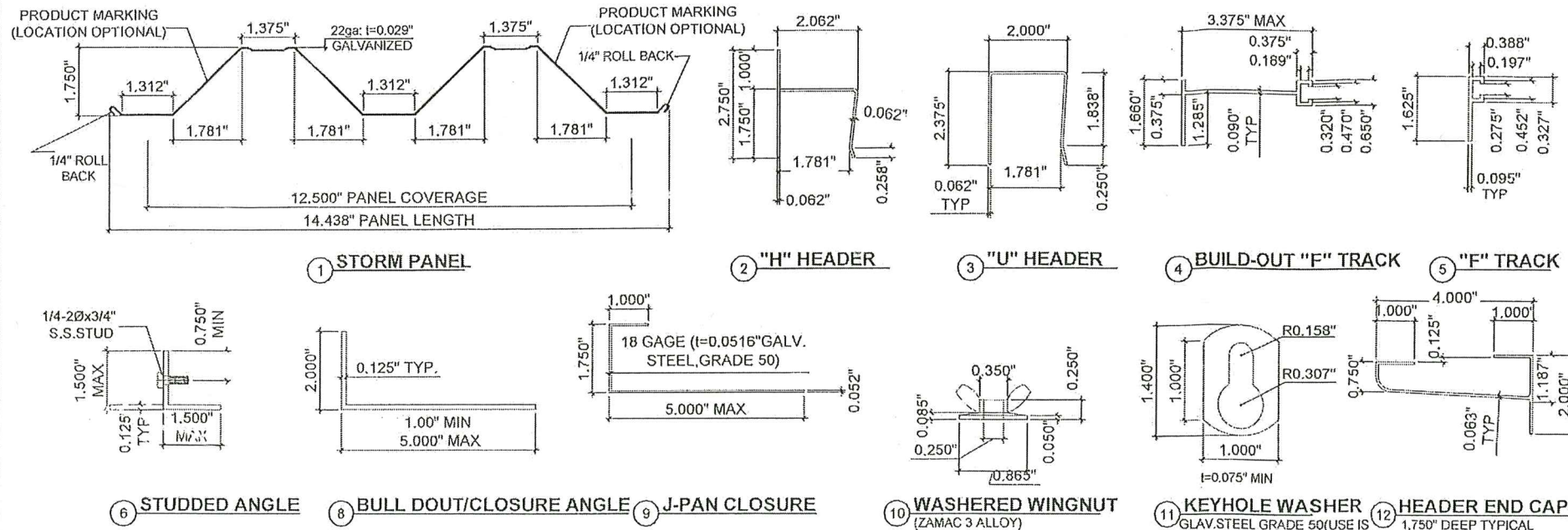
1. *None.*

**F. STATEMENTS**

1. *Letter of Compliance with the FBC, 2023 Edition, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., on August 09, 2023.*

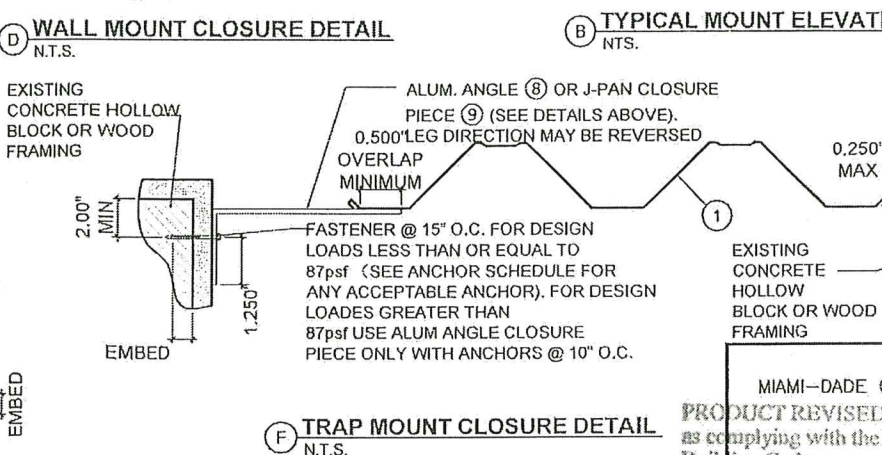
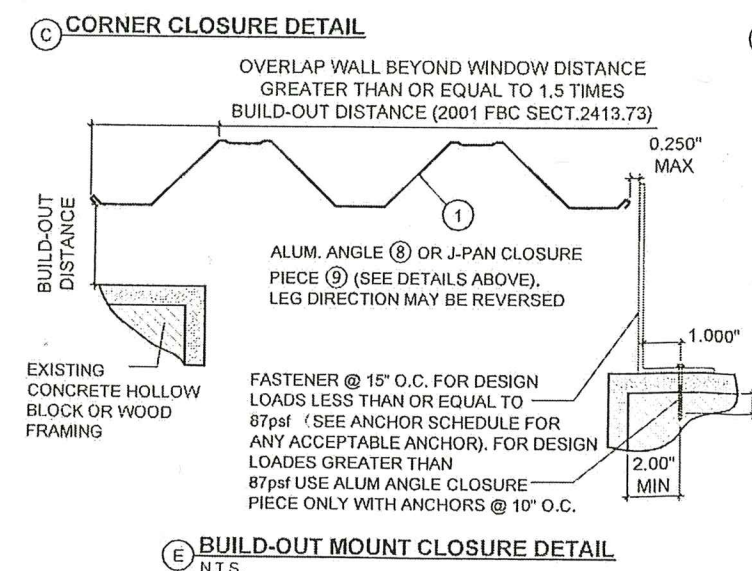
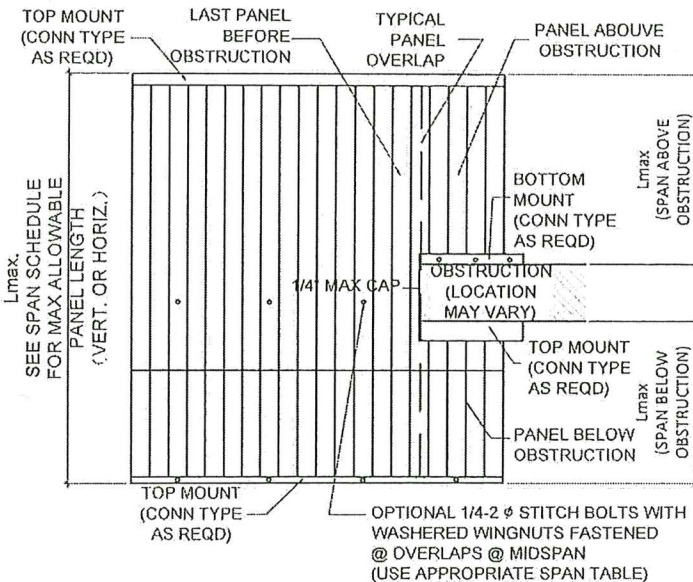
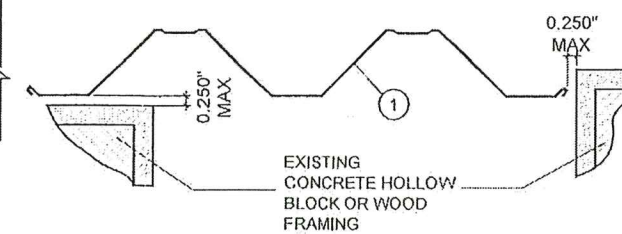
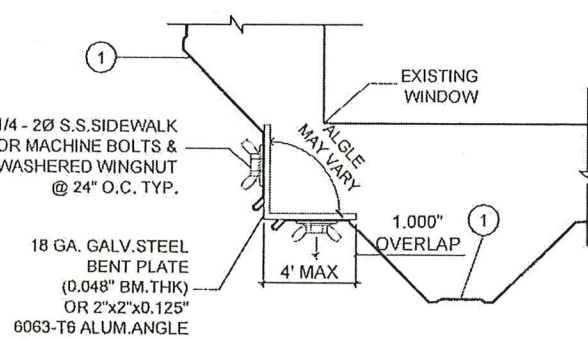
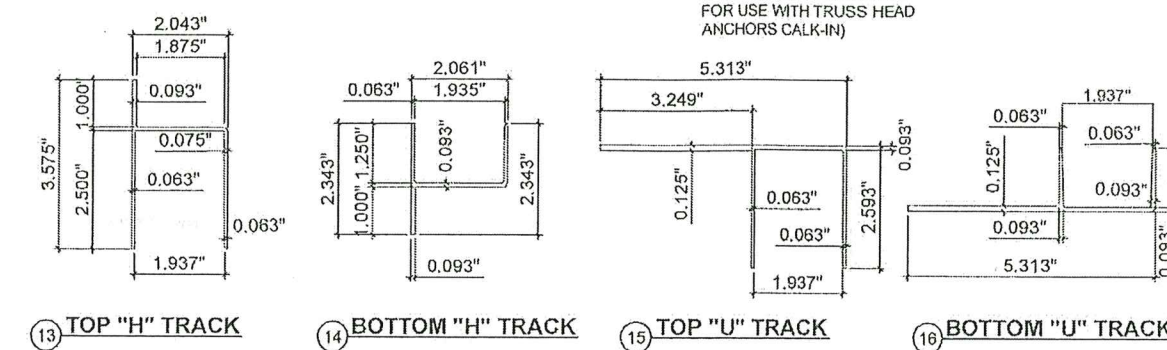
  
\_\_\_\_\_  
Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 24-1127.03  
Expiration Date: 01/23/2030  
Approval Date: 01/09/2025





# GENERAL NOTES:

- THIS SHUTTER SYSTEM HAS BEEN DESIGNED AND TESTED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE 7TH EDITION OF FLORIDA BUILDING CODE (2020)/ 8TH EDITION OF FLORIDA BUILDING CODE (2023) AND PROTOCOLS TAS 201 FOR LARGE MISSILE IMPACT, TAS 202 FOR UNIFORM STATIC AIR PRESSURE AND TAS 203 FOR CYCLIC WIND LOADING.
- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-16 / ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.
- NO 33.3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THE ANCHOR SPACING TABLES.
- POSITIVE AND NEGATIVE DESIGN PRESSURES TO BE USED WITH THESE DRAWINGS SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. WHEN ASCE 7-16 / ASCE 7-22 IS USED TO CALCULATE PRESSURES FOR USE WITH THIS PRODUCT, THE USE OF A DIRECTIONALITY FACTOR  $K_d=0.85$  IS ALLOWED.
- THE SHUTTER SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND ADDITIONAL IMPOSED LOADS.
- STORM PANELS SHALL BE 22GA STEEL (GALVANIZED THICKNESS  $t=0.029"$  MIN) CONFORMING TO ASTM A653, STRUCTURAL QUALITY, GRADE 80, G90 GALV. COATING WITH A MIN.  $F_y=92.0$  KSI. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINIUM ALLOY.
- PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE MARKING PER PANEL AS FOLLOWS:  
  
FLORIDA STORM PANELS, INC  
OPA-LOCKA, FLORIDA  
MIAMI-DADE COUNTY PROD. CONTROL APPROVED
- STORM PANELS HAVE BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS AND LOADS SHOWN ON THESE DRAWINGS. REFERENCE CONSTRUCTION TESTING CORPORATION (CTC), OF MIAMI, FL, TEST REPORT NO. 02-041.
- TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FILED CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR MOUNTING CONDITIONS INCLUDING "H" OR "U" HEADERS.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 80 KSI.



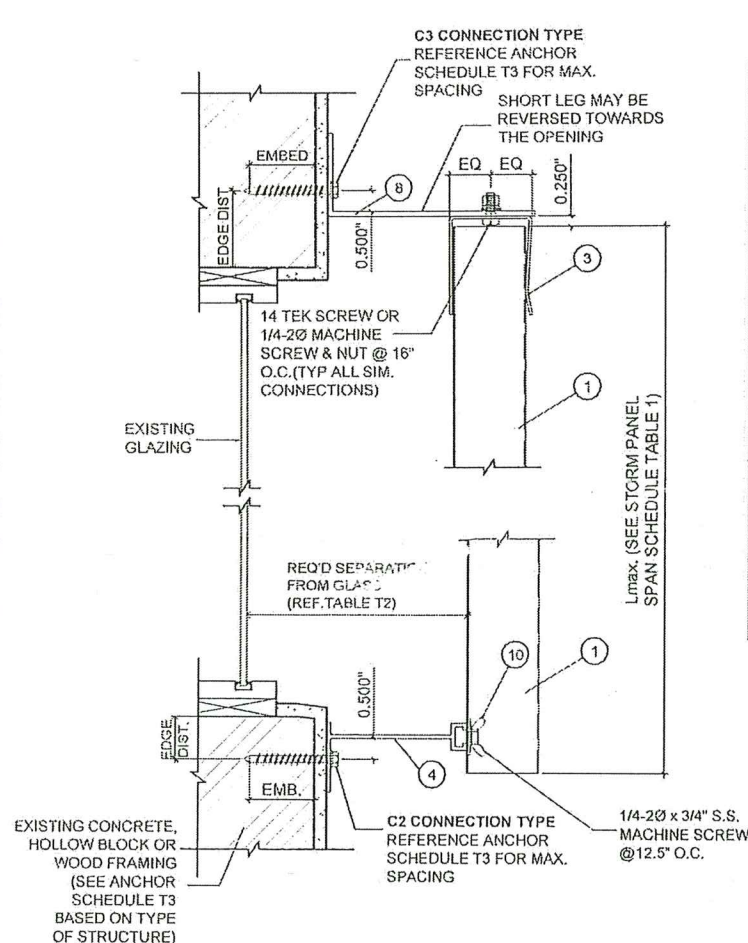
PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 24-1127.03  
Expiration Date 01/23/2025  
By *[Signature]*  
Miami Dade Product Control

MIAMI-DADE COUNTY  
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 23-0816.20  
Expiration Date 01/23/2025  
By *[Signature]*  
Miami Dade Product Control

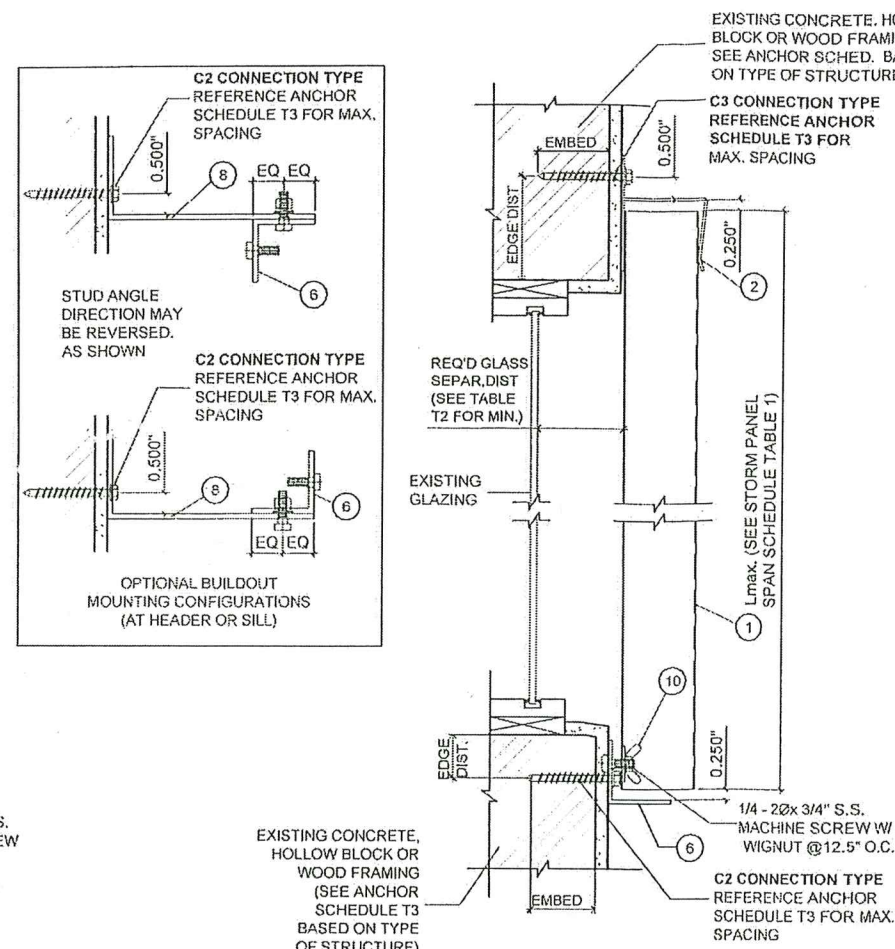
YIPING WANG  
FLORIDA EXISTENCE  
P.E. #55983  
C.M.N. #28677  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
August 10th, 2023

22 GA. GALVANIZED STEEL STORM PANEL - LMI		FLORIDA STORM PANEL SUPPLY, LLC.		MCY ENGINEERING, INC. GLAZING CONSULTANTS		REVISIONS	
DATE		08.08.2023		NO DATE		DESCRIPTION	
SCALE		AS NOTED		Δ 05-27-15		UPDATED TO 2014 FBC	
DRAWN		James		Δ 09-29-17		UPDATED TO 2017 FBC	
PROJECT		MCY 12-073		Δ 10-28-20		UPDATED TO 2020 FBC	
				Δ 08-09-23		UPDATED TO 2023 FBC	
DRAWING NO.		AD12-32		12781 MIRAMAR PKWY. STE. 301 P: 305 271 0117 MIRAMAR, FL 33027 F: 305 588 5224		www.MCYEngineering.com mcy@mcyengineering.com	
1 OF 4				www.MCYEngineering.com			





**G BUILD-OUT MOUNT SECTION**  
N.T.S.



**H WALL MOUNT SECTION**  
N.T.S.

**MAXIMUM ALLOWABLE SPAN SCHEDULE**

**T1**

LOAD W(Psf)	No Stitch Bolts LMAX(ft)	Stitch Bolts AT Midspan LMAX(ft)
25	10'-7"	10'-7"
30	10'-5"	10'-5"
35	10'-0"	10'-0"
39	9'-9"	9'-9"
40	9'-8"	9'-8"
45	9'-4"	9'-5"
49	8'-11"	9'-3"
50	8'-10"	9'-2"
55	8'-5"	8'-11"
58	8'-2"	8'-10"
60	8'-1"	8'-9"
65	7'-9"	8'-3"
70	7'-6"	7'-8"
72	7'-4"	7'-6"
75	7'-2"	7'-2"
80	6'-9"	6'-9"
90	6'-0"	6'-0"
100	5'-4"	5'-4"
110	4'-10"	4'-10"
120	4'-6"	4'-6"
130	4'-1"	4'-1"

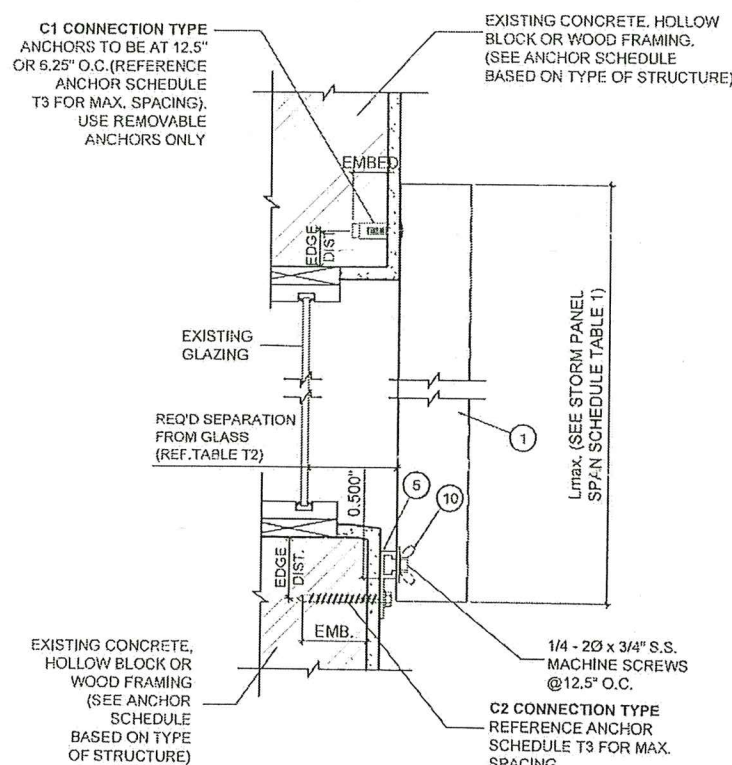
**SPAN SCHEDULE NOTES:**  
1. ENTER SPAN SCHEDULE WITH NEGATIVE DESIGN LOAD TO DETERMINE MAXIMUM ALLOWABLE STORM PANEL SPAN. SCHEDULE IS ACCEPTABLE FOR USE WITH POSITIVE LOADS LESS THAN OR EQUAL TO NEGATIVE DESIGN LOADS.  
2. INTERPOLATION BETWEEN LOADS IS ACCEPTABLE. OTHERWISE USE NEXT HIGHER LOAD.

**MINIMUM SEPARATION FROM GLASS SCHEDULE**

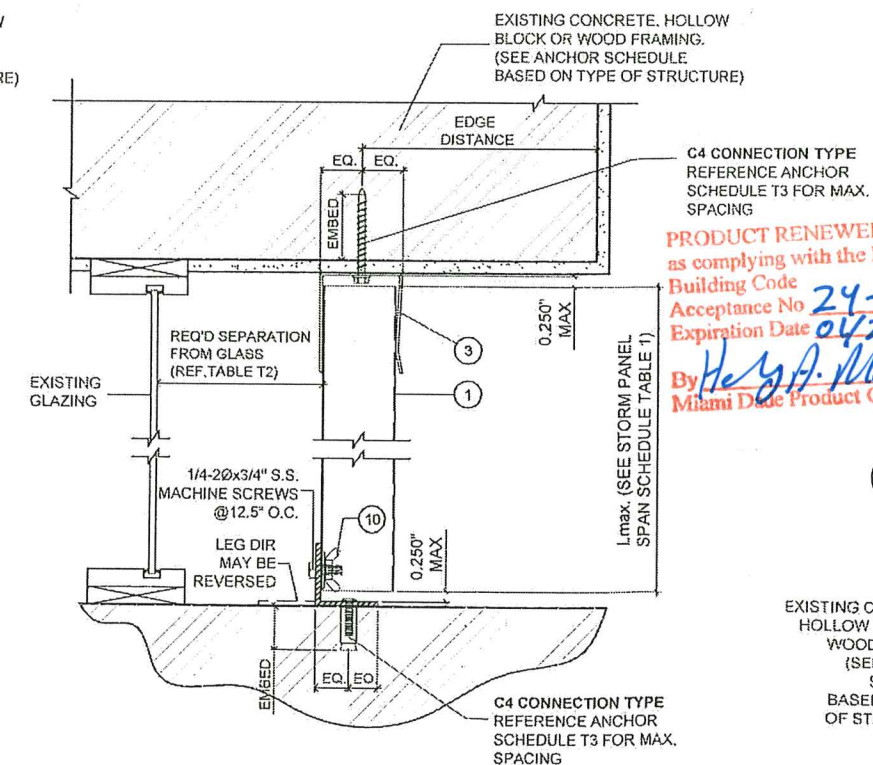
**T2**

Positive Load (Psf)	Span Less Than:	Separation (inches) at <= 30'	Separation (inches) at > 30'
30	6'-0"	2.75"	1.22"
	8'-8"	2.75"	1.94"
	10'-5"	3.00"	3.00"
35	6'-0"	2.75"	1.25"
	8'-8"	2.75"	2.10"
	10'-0"	3.00"	3.00"
40	6'-0"	2.75"	1.29"
	8'-8"	2.75"	2.26"
	9'-8"	3.00"	3.00"
45	6'-0"	2.75"	1.32"
	8'-8"	2.75"	2.41"
	9'-4"	2.92"	2.92"
50	6'-0"	2.75"	1.36"
	8'-10"	2.75"	2.73"
	6'-0"	2.75"	1.43"
60	8'-1"	2.75"	2.44"
	6'-0"	2.75"	1.51"
	7'-6"	2.75"	2.24"

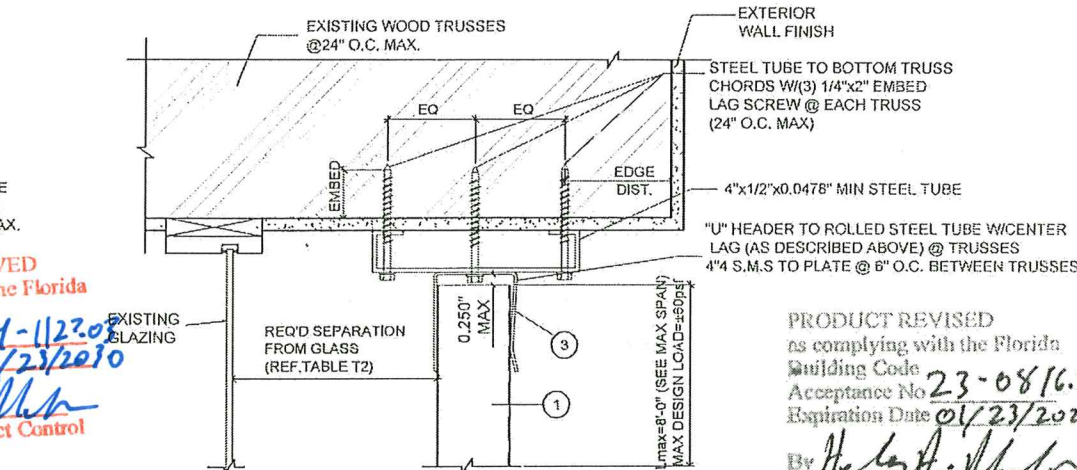
**TABLE T2 NOTES:**  
1. ENTER SPAN SCHEDULE WITH POSITIVE DESIGN LOAD TO DETERMINE MINIMUM ALLOWABLE STORM PANEL SEPARATION FROM GLASS OR DOOR TO BE PROTECTED. SCHEDULE IS REQUIRED FOR USE WITH POSITIVE LOADS ONLY.  
2. INTERPOLATION BETWEEN LOADS IS ACCEPTABLE. OTHERWISE USE NEXT HIGHER LOAD.



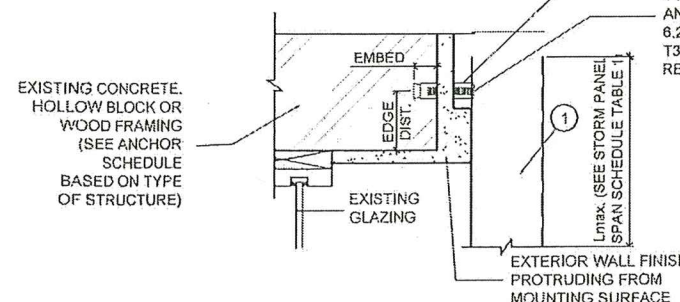
**I "F" TRACK / DIRECT MOUNT SECTION**  
N.T.S.



**J CEILING/FLOOR MOUNT SECTION**  
N.T.S.

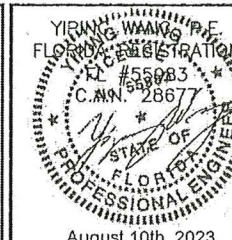


**K TRUSS MOUNT SECTION**  
N.T.S.



**L OFFSET WALL MOUNT SECTION**  
N.T.S.

MIAMI-DADE COUNTY



August 10th, 2023

**REVISIONS**

NO.	DATE	DESCRIPTION
1	05-27-15	UPDATED TO 2014 FBC
2	09-23-17	UPDATED TO 2017 FBC
3	10-28-20	UPDATED TO 2020 FBC
4	08-09-23	UPDATED TO 2023 FBC

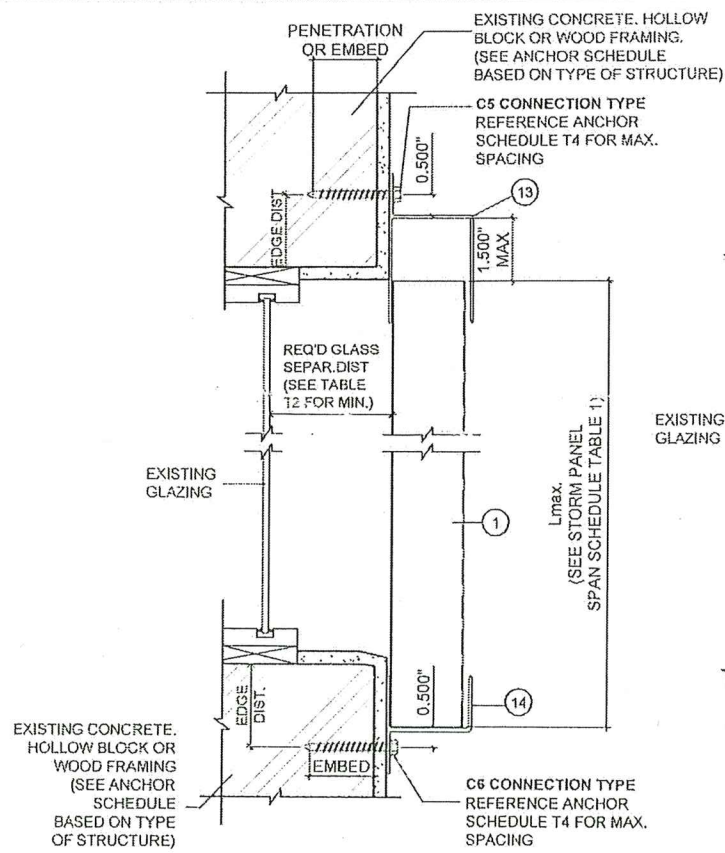
**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PKWY. STE. 301 P: 305 271 0117  
MIRAMAR, FL 33027 F: 305 588 5224  
www.MCYEngineering.com mcy@mcyengineering.com

22 GA. GALVANIZED STEEL STORM PANEL - LMI  
FLORIDA STORM PANEL SUPPLY, LLC.  
14475 N.W. 26TH AVE.  
OPA LOCKA, FL 33054  
P: (305) 685 - 9000 F: (305) 685 - 7511

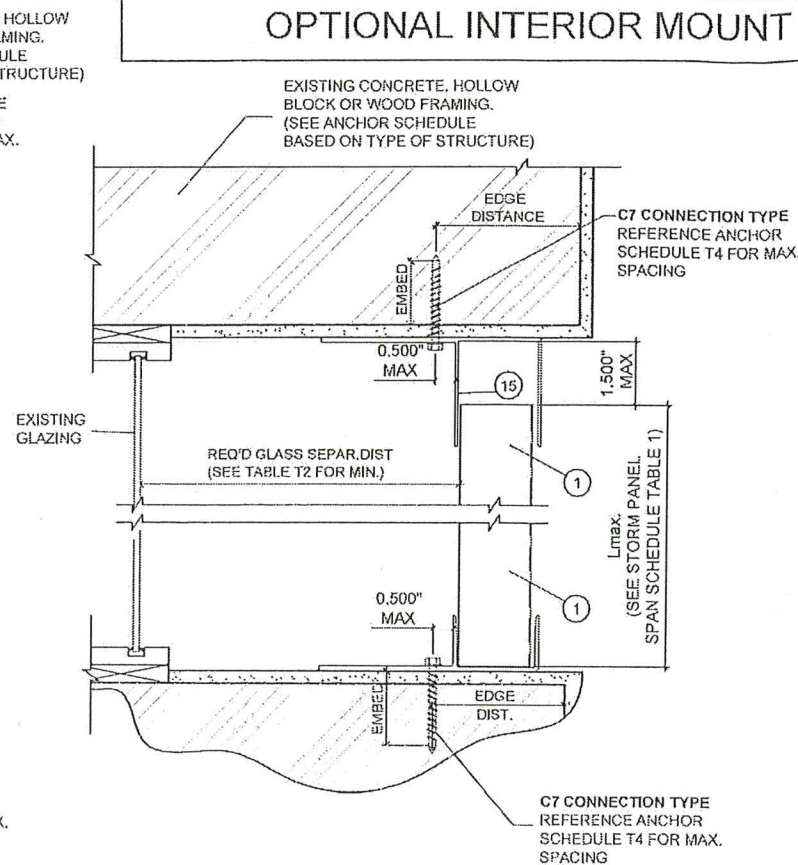
DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY 12-073

DRAWING NO.  
**AD12-32**

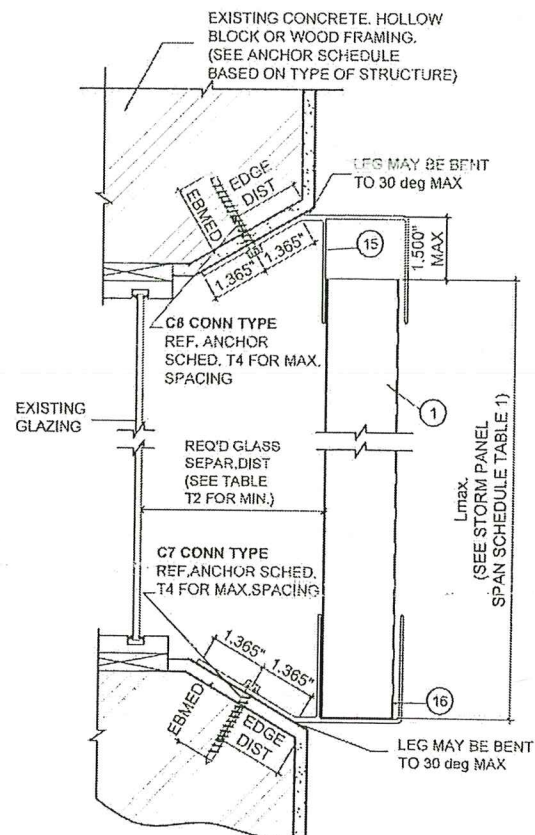




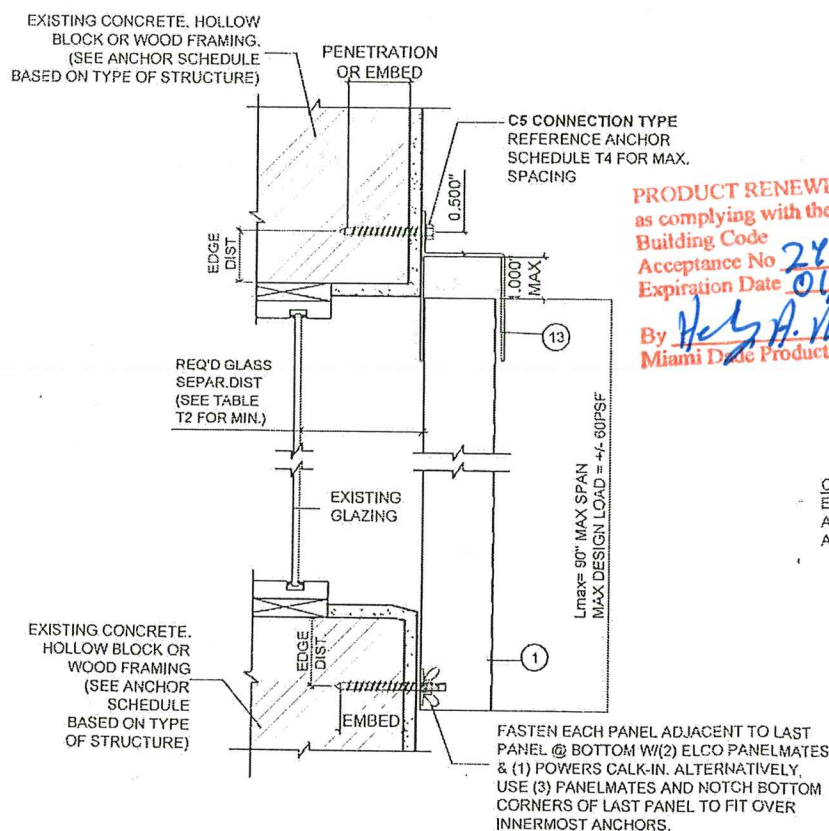
**M WALL MOUNT SECTION**  
WALL MOUNT TRACKS, N.T.S.



**N CEILING/FLOOR MOUNT SECTION**  
N.T.S.



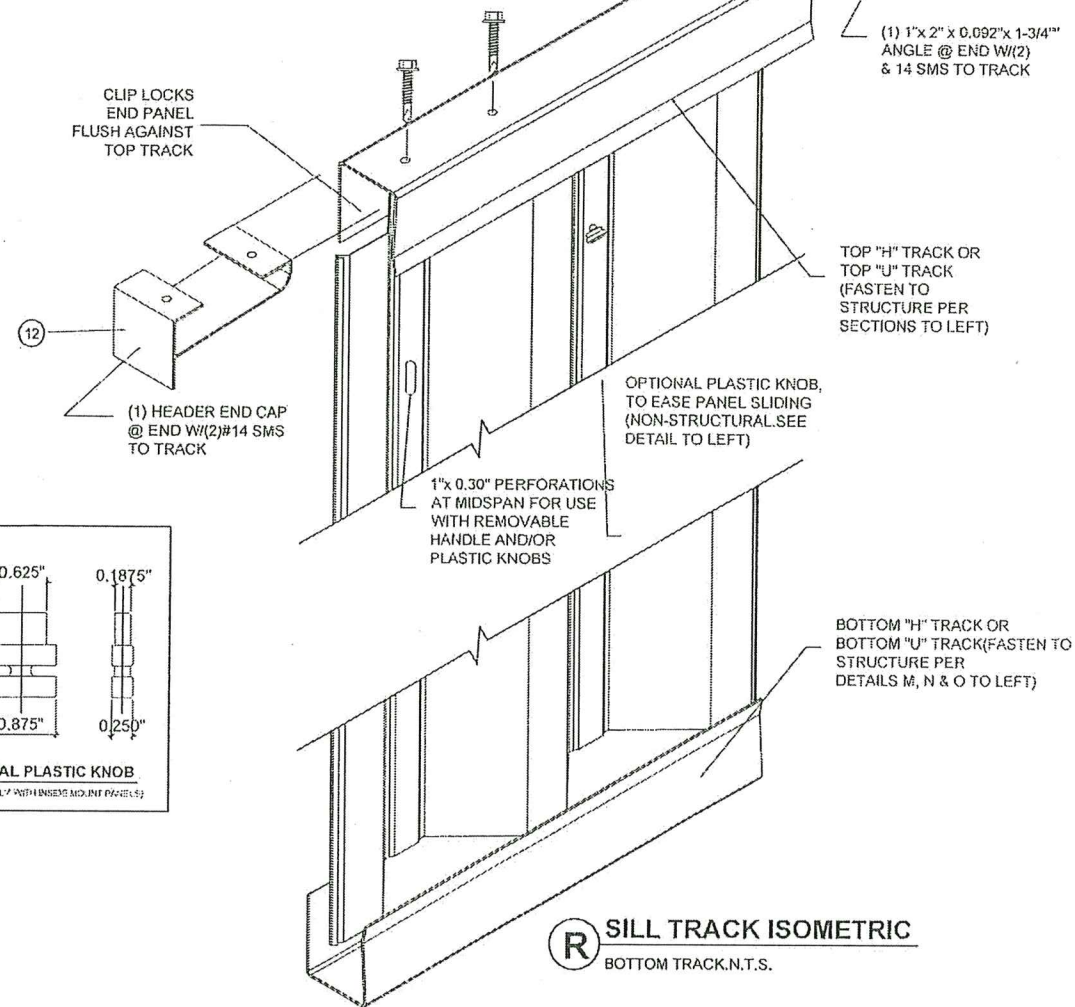
**O HEADERS/SILL MOUNT SECTION**  
TRAP MOUNT TRACKS ON ANGLE, N.T.S.



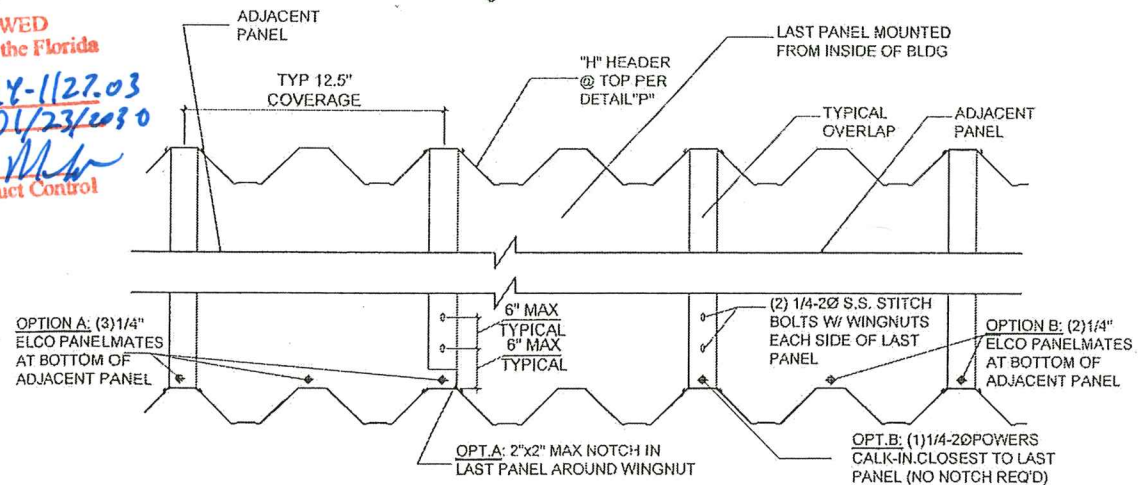
**P DIRECT WALL MOUNT SECTION**  
BOTTOM DIRECT WALL MOUNT (REF. DETAIL 'S'), N.T.S.

## OPTIONAL INTERIOR MOUNT INSTALLATION DETAILS

**Q HEADER TRACK ISOMETRIC**  
TOP TRACK N.T.S.



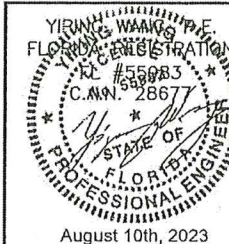
**R SILL TRACK ISOMETRIC**  
BOTTOM TRACK, N.T.S.



**S DIRECT WALL MOUNT EXTERIOR ELEVATION**  
BOTTOM DIRECT WALL MOUNT (REF. DETAIL 'P'), N.T.S.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 23-08/6.20  
Expiration Date 01/23/2025  
By *H. G. A. M. M.*  
Miami Dade Product Control

MIAMI-DADE COUNTY



DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY 12-073

DRAWING NO.  
AD12-32

3 OF 4

NO.	DATE	DESCRIPTION
1	05-27-15	UPDATED TO 2014 FBC
2	09-23-17	UPDATED TO 2017 FBC
3	10-28-20	UPDATED TO 2020 FBC
4	08-08-23	UPDATED TO 2023 FBC

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PKWY. STE. 301 P: 305 271 0117  
MIRAMAR, FL. 33027 F: 305 588 5224  
www.MCYEngineering.com mcy@mcyengineering.com

22 GA. GALVANIZED STEEL STORM PANEL - LMI  
**FLORIDA STORM PANEL SUPPLY, LLC.**  
14475 N.W. 26TH AVE.  
OPA LOCKA, FL. 33054  
P: (305) 685 - 9000 F: (305) 685 - 7511



### T3 ANCHOR SPACING SCHEDULE

EXIST. STRUCT.	ANCHOR	LOAD (psf)	2.5" EDGE DISTANCE											
			PANS UP TO 5.50ft CONN TYPE				SPANS UP TO 8.67ft CONN TYPE				SPANS UP TO 10.67ft CONN TYPE			
			C1	C2	C3	C4	C1	C2	C3	C4	C1	C2	C3	C4
CONCRETE	1/4" x1-3/4" EMBED ELCO TAPCON (MIN 3320 PSI CONC)	39	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	11.9"	13.5"
		49	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	11.6"	13.3"	12.5"	16.0"	8.4"	10.7"
		58	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	8.9"	11.1"	12.5"	16.0"	8.0"	10.3"
		72	12.5"	16.0"	13.0"	14.3"	12.5"	16.0"	8.0"	10.3"	12.5"	16.0"	8.0"	10.3"
		130	12.5"	16.0"	8.0"	10.3"	12.5"	16.0"	8.0"	10.3"	12.5"	16.0"	8.0"	10.3"
	1/4" x1-7/8" EMBED ALL-POINTS SOLID-SET LEAD SHIELD ANCHOR	39	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	15.2"	15.0"	12.5"	16.0"	10.6"	12.1"
		49	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	10.2"	11.8"	12.5"	16.0"	7.5"	9.5"
		58	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	7.9"	9.9"	12.5"	16.0"	7.1"	9.2"
		72	12.5"	16.0"	11.5"	12.7"	12.5"	16.0"	7.1"	9.2"	12.5"	16.0"	7.1"	9.2"
		130	12.5"	16.0"	7.1"	9.2"	12.5"	16.0"	7.1"	9.2"	12.5"	16.0"	7.1"	9.2"
	1/4" x1-2" EMBED ELCO PANELMATE (MIN 3350 PSI CONC)	39	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	13.3"	15.7"	12.5"	16.0"	9.2"	12.6"
		49	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	8.9"	12.4"	12.5"	16.0"	6.5"	9.9"
		58	12.5"	16.0"	14.9"	16.0"	12.5"	16.0"	6.9"	10.4"	12.5"	16.0"	6.2"	9.6"
		72	12.5"	16.0"	10.0"	13.3"	12.5"	16.0"	6.2"	9.6"	12.5"	16.0"	6.2"	9.6"
		130	12.5"	16.0"	6.2"	9.6"	12.5"	16.0"	6.2"	9.6"	12.5"	16.0"	6.2"	9.6"

HOLLOW CONC BLOCK	1/4" x1-1/4" EMBED ELCO TAPCON	39	10.0"	12.8"	12.8"	12.6"	10.0"	12.4"	6.2"	7.9"	10.0"	10.0"	4.3"	6.3"
		49	10.0"	12.8"	10.1"	10.0"	5.0"	9.8"	4.2"	6.1"	5.0"	8.0"	3.0"	4.9"
		58	10.0"	12.8"	6.9"	8.4"	5.0"	8.3"	3.2"	5.2"	5.0"	7.7"	4.8"	4.8"
		72	10.0"	10.5"	4.7"	6.6"	5.0"	7.7"	4.8"	4.8"	5.0"	7.7"	4.8"	4.8"
		130	5.0"	7.7"	4.8"	4.8"	5.0"	7.7"	4.8"	4.8"	5.0"	7.7"	4.8"	4.8"
	1/4" x1-7/8" EMBED ALL-POINTS SOLID-SET LEAD SHIELD ANCHOR	39	10.0"	12.8"	12.8"	12.8"	10.0"	12.8"	10.1"	8.2"	10.0"	12.8"	7.0"	6.6"
		49	10.0"	12.8"	12.8"	10.4"	10.0"	12.8"	6.8"	6.5"	10.0"	12.8"	4.9"	5.2"
		58	10.0"	12.8"	11.4"	8.8"	10.0"	12.8"	5.2"	5.5"	10.0"	12.7"	4.7"	5.1"
		72	10.0"	12.8"	7.6"	7.0"	10.0"	12.7"	4.7"	5.1"	10.0"	12.7"	4.7"	5.1"
		130	10.0"	12.7"	4.7"	5.1"	10.0"	12.7"	4.7"	5.1"	10.0"	12.7"	4.7"	5.1"
	1/4" x1-1/4" EMBED ELCO PANELMATE	39	10.0"	12.8"	12.8"	9.7"	10.0"	11.6"	5.8"	6.1"	5.0"	9.4"	4.0"	4.9"
		49	10.0"	12.8"	9.5"	7.7"	5.0"	9.2"	3.9"	4.8"	5.0"	7.5"	3.9"	3.9"
		58	10.0"	12.3"	6.5"	6.4"	5.0"	7.8"	3.0"	4.0"	5.0"	7.2"	3.7"	3.7"
		72	5.0"	9.9"	4.4"	5.2"	5.0"	7.2"	3.7"	3.7"	5.0"	7.2"	3.7"	3.7"
		130	5.0"	7.2"	3.7"	3.7"	5.0"	7.2"	3.7"	3.7"	5.0"	7.2"	3.7"	3.7"

WOOD	1/4" x 2" THREAD PENETR.LAG SCREW	39	12.5"	16.0"	16.0"	7.5"	12.5"	16.0"	12.8"	4.8"	12.5"	16.0"	8.9"	3.9"
		49	12.5"	16.0"	16.0"	6.0"	12.5"	16.0"	8.6"	3.8"	12.5"	16.0"	6.3"	3.1"
		58	12.5"	16.0"	14.4"	5.1"	12.5"	16.0"	6.6"	3.2"	12.5"	16.0"	6.0"	3.1"
		72	12.5"	16.0"	9.6"	4.1"	12.5"	16.0"	6.0"	3.2"	12.5"	16.0"	6.0"	3.1"
		130	12.5"	16.0"	6.0"	3.1"	12.5"	16.0"	6.0"	3.1"	12.5"	16.0"	6.0"	3.1"
	#14 x 1-1/2" THREAD PENETR.WOOD SCREW	39	12.5"	16.0"	16.0"	7.7"	12.5"	16.0"	8.3"	4.8"	12.5"	13.5"	5.8"	3.9"
		49	12.5"	16.0"	13.6"	6.1"	12.5"	13.2"	5.6"	3.8"	6.25"	10.7"	4.1"	3.1"
		58	12.5"	16.0"	9.3"	5.1"	6.25"	11.2"	4.3"	3.2"	6.25"	10.4"	3.9"	3.9"
		72	12.5"	14.2"	6.3"	4.1"	6.25"	10.4"	3.9"	3.9"	6.25"	10.4"	3.9"	3.9"
		130	6.25"	10.4"	3.9"	3.9"	6.25"	10.4"	3.9"	3.9"	6.25"	10.4"	3.9"	3.9"
	7/16" x 5/8" EMBED BRASS BUSHING & 1/4-20 SCREW	39	12.5"	16.0"	16.0"	13.0"	12.5"	16.0"	8.3"	8.1"	12.5"	13.4"	5.7"	6.6"
		49	12.5"	16.0"	13.5"	10.3"	12.5"	13.1"	5.5"	6.4"	6.25"	10.6"	4.0"	5.2"
		58	12.5"	16.0"	9.2"	8.7"	6.25"	11.1"	4.3"	5.4"	6.25"	10.3"	3.8"	5.0"
		72	12.5"	14.0"	6.2"	6.9"	6.25"	10.3"	3.8"	5.0"	6.25"	10.3"	3.8"	5.0"
		130	6.25"	10.3"	3.8"	5.0"	6.25"	10.3"	3.8"	5.0"	6.25"	10.3"	3.8"	5.0"

### T4 ANCHOR SPACING SCHEDULE (INSIDE MOUNT PANELS, WALL MOUNT)

EXIST. STRUCT.	ANCHOR	LOAD (psf)	2.5" EDGE DISTANCE			
			SPANS UP TO 5.50ft CONN TYPE		SPANS UP TO 8.67ft CONN TYPE	
			C5	C6	C5	C6
CONCRETE	1/4" x1-3/4" EMBED ELCO TAPCON (MIN 3320PSI CONC)	39	16.0"	16.0"	16.0"	16.0"
		45	16.0"	16.0"	11.4"	16.0"
		55	16.0"	16.0"	7.5"	16.0"
		65	14.2"	16.0"	6.0"	16.0"
		72	11.0"	16.0"	6.0"	16.0"
	1/4" x1-7/8" EMBED ALL-POINTS SOLID-SET LEAD SHIELD ANCHOR	39	16.0"	16.0"	14.8"	16.0"
		45	16.0"	16.0"	10.1"	16.0"
		55	16.0"	16.0"	6.6"	16.0"
		65	12.6"	16.0"	5.3"	16.0"
		72	9.6"	16.0"	5.3"	16.0"
	1/4" x1-2" EMBED ELCO PANELMATE (MIN 3350 PSI CONC)	39	16.0"	16.0"	12.9"	16.0"
		45	16.0"	16.0"	8.8"	16.0"
		55	16.0"	16.0"	5.8"	16.0"
		65	11.0"	16.0"	4.6"	16.0"
		72	8.5"	16.0"	4.6"	16.0"

HOLLOW CONC BLOCK	1/4" x1-1/4" EMBED ELCO TAPCON	39	12.8"	12.8"	6.0"	12.4"
		49	12.8"	12.8"	4.1"	10.7"
		58	8.8"	12.6"	8.8"	8.8"
		72	5.1"	11.6"	7.7"	7.7"
		130	4.0"	10.5"	7.7"	7.7"
	1/4" x1-7/8" EMBED ALL-POINTS SOLID-SET LEAD SHIELD ANCHOR	39	12.8"	12.8"	9.9"	12.8"
		49	12.8"	12.8"	6.8"	12.8"
		58	12.8"	12.8"	4.4"	12.8"
		72	8.4"	12.8"	3.5"	12.7"
		130	6.5"	12.8"	3.5"	12.7"
	1/4" x1-1/4" EMBED ELCO PANELMATE	39	12.8"	12.8"	5.6"	11.6"
		49	12.8"	12.8"	3.8"	10.0"
		58	8.2"	12.8"	8.2"	8.2"
		72	4.8"	10.9"	7.2"	7.2"
		130	3.7"	9.9"	7.2"	7.2"

WOOD	1/4" x 2" THREAD PENETR.LAG SCREW	39	16.0"	16.0"	12.4"	16.0"
		45	16.0"	16.0"	8.5"	16.0"
		55	16.0"	16.0"	5.6"	16.0"
		65	10.6"	16.0"	4.4"	16.0"
		72	8.2"	16.0"	4.4"	16.0"
	#14 x 1-1/2" THREAD PENETR.WOOD SCREW	39	16.0"	16.0"	8.1"	16.0"
		45	16.0"	16.0"	5.5"	14.4"
		55	11.8"	16.0"	3.6"	11.8"
		65	6.9"	15.7"	10.4"	10.4"
		72	5.3"	14.2"	10.4"	10.4"
	7/16" x 5/8" EMBED BRASS BUSHING & 1/4-20 SCREW	39	16.0"	16.0"	8.0"	16.0"
		45	16.0"	16.0"	5.5"	14.2"
		55	11.7"	16.0"	3.6"	11.7"
		65	6.8"	15.5"	10.3"	10.3"
		72	5.3"	14.0"	10.3"	10.3"

### T5 ANCHOR SPACING SCHEDULE (INSIDE MOUNT PANELS, TRAP MOUNT)

EXIST. STRUCT.	ANCHOR	LOAD (psf)	2.0" EDGE DISTANCE			
			SPANS UP TO 5.50ft CONN TYPE		SPANS UP TO 8.67ft CONN TYPE	
			C7	C8	C7	C8
CONCRETE	1/4" x1-3/4" EMBED ELCO TAPCON (MIN 3320PSI CONC)	39	16.0"	15.3"	13.6"	9.7"
		45	16.0"	13.2"	11.8"	8.4"
		55	15.2"	10.8"	9.6"	6.9"
		65	12.9"	9.2"	8.5"	6.0"
		72	11.6"	8.3"	8.5"	6.0"
	1/4" x1-7/8" EMBED ALL-POINTS SOLID-SET LEAD SHIELD ANCHOR	39	16.0"	16.0"	15.2"	10.8"
		45	16.0"	14.7"	13.2"	9.3"
		55	16.0"	12.0"	10.8"	7.6"
		65	14.4"	10.2"	9.5"	6.7"
		72	13.0"	9.2"	9.5"	6.7"
	1/4" x1-2" EMBED ELCO PANELMATE (MIN 3350 PSI CONC)	39	16.0"	11.6"	10.3"	7.4"
		45	14.1"	10.1"	8.9"	6.4"
		55	11.5"	8.2"	7.3"	5.2"
		65	9.7"	7.0"	6.4"	4.6"
		72	8.8"	6.3"	6.4"	4.6"

HOLLOW CONC BLOCK	1/4" x1-1/4" EMBED ELCO TAPCON	39	10.0"	6.5"	6.4"	4.1"
		49	8.7"	5.6"	5.5"	3.6"
		58	7.1"	4.6"	4.5"	3.0"
		72	6.0"	3.9"	4.0"	3.0"
		130	5.4"	3.6"	4.0"	3.0"
	1/4" x1-7/8" EMBED ALL-POINTS SOLID-SET LEAD SHIELD ANCHOR	39	12.8"	9.8"	6.3"	6.2"
		49	11.3"	8.5"	7.2"	5.4"
		58	9.3"	6.9"	5.9"	4.4"
		72	7.9"	5.9"	5.2"	3.9"
		130	7.1"	5.3"	5.2"	3.9"
	1/4" x1-1/4" EMBED ELCO PANELMATE	39	8.9"	6.4"	5.6"	4.0"
		49	7.7"	5.5"	4.9"	3.5"
		58	6.3"	4.4"	4.0"	3.5"
		72	5.3"	3.8"	3.5"	3.5"
		130	4.8"	3.4"	3.5"	3.5"

WOOD	1/4" x 2" THREAD PENETR.LAG SCREW	39	7
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