



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**

**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 375-2908**

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

**NOTICE OF ACCEPTANCE (NOA)**

**Florida Storm Panels, Inc.**  
**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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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. 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., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", 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 # 02-1120.02** and consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
 11/01/2007

**NOA No. 07-0817.03**  
**Expiration Date: 01/23/2013**  
**Approval Date: 11/01/2007**  
**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. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

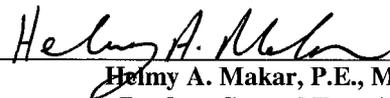
1. *None.*

**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 Examiner  
NOA No. 07-0817.03  
Expiration Date: 01/23/2013  
Approval Date: 11/01/2007



JAN 02 2003

FRANK L. BENNARDONE  
#FE0046543

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FLORIDA STORM PANELS, INC.  
14475 N.W. 26th AVENUE  
OPA-LOCKA, FL 33054  
22ga GALVANIZED  
STEEL STORM PANELS

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	1/2/03
SCALE: 3" = 1"	
DRAWN BY: CL	
CHECKED BY: FLB	
PRINT DATE: 11/18/02	
DWG #: 02-868-III	
SHEET: 2 OF 4	

MAXIMUM ALLOWABLE SPAN SCHEDULE

Load W (psf)	No Stitch Bolts L <sub>MAX</sub> (ft)	Stitch Bolts At Midspan L <sub>MAX</sub> (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"

MINIMUM SEPARATION FROM GLASS SCHEDULE

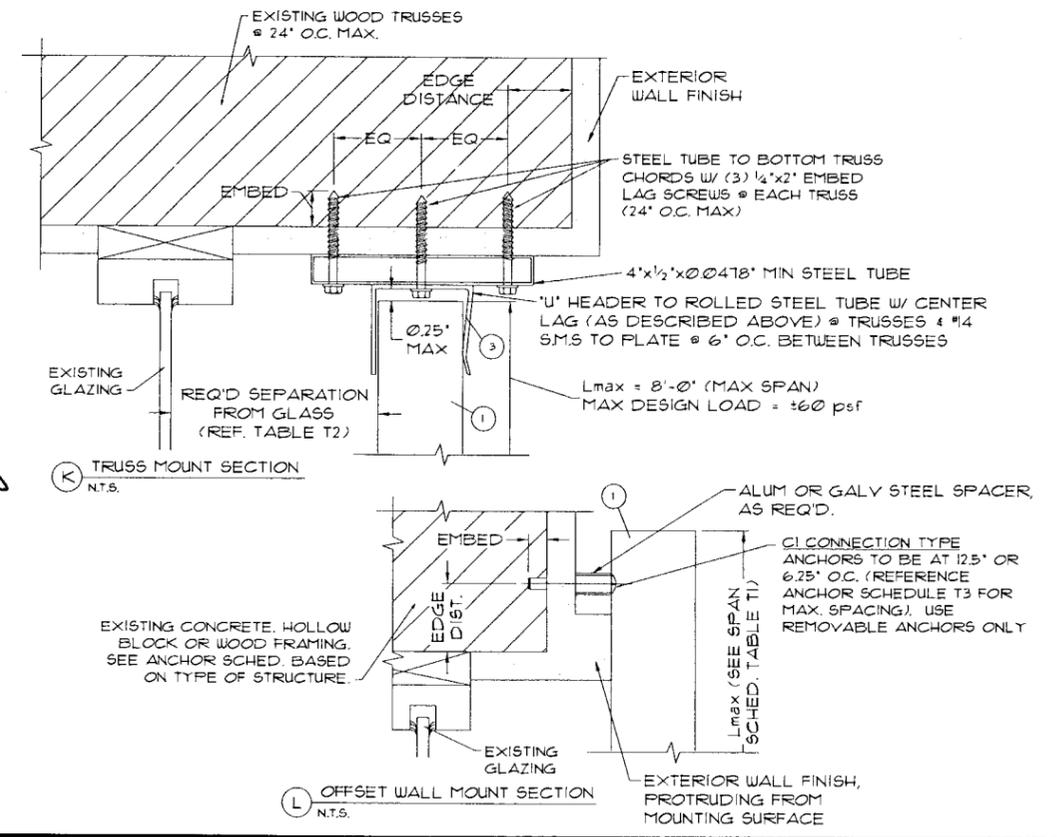
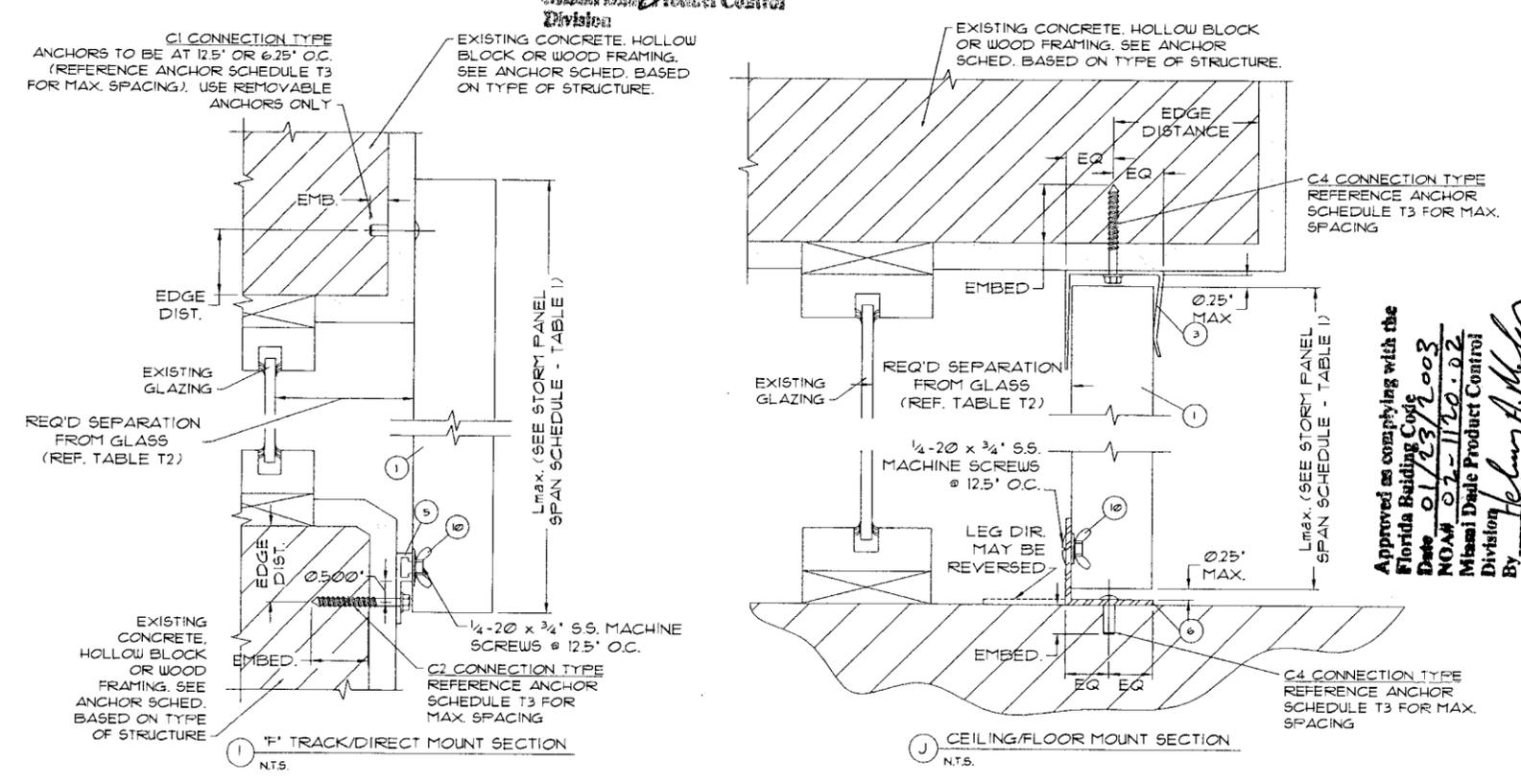
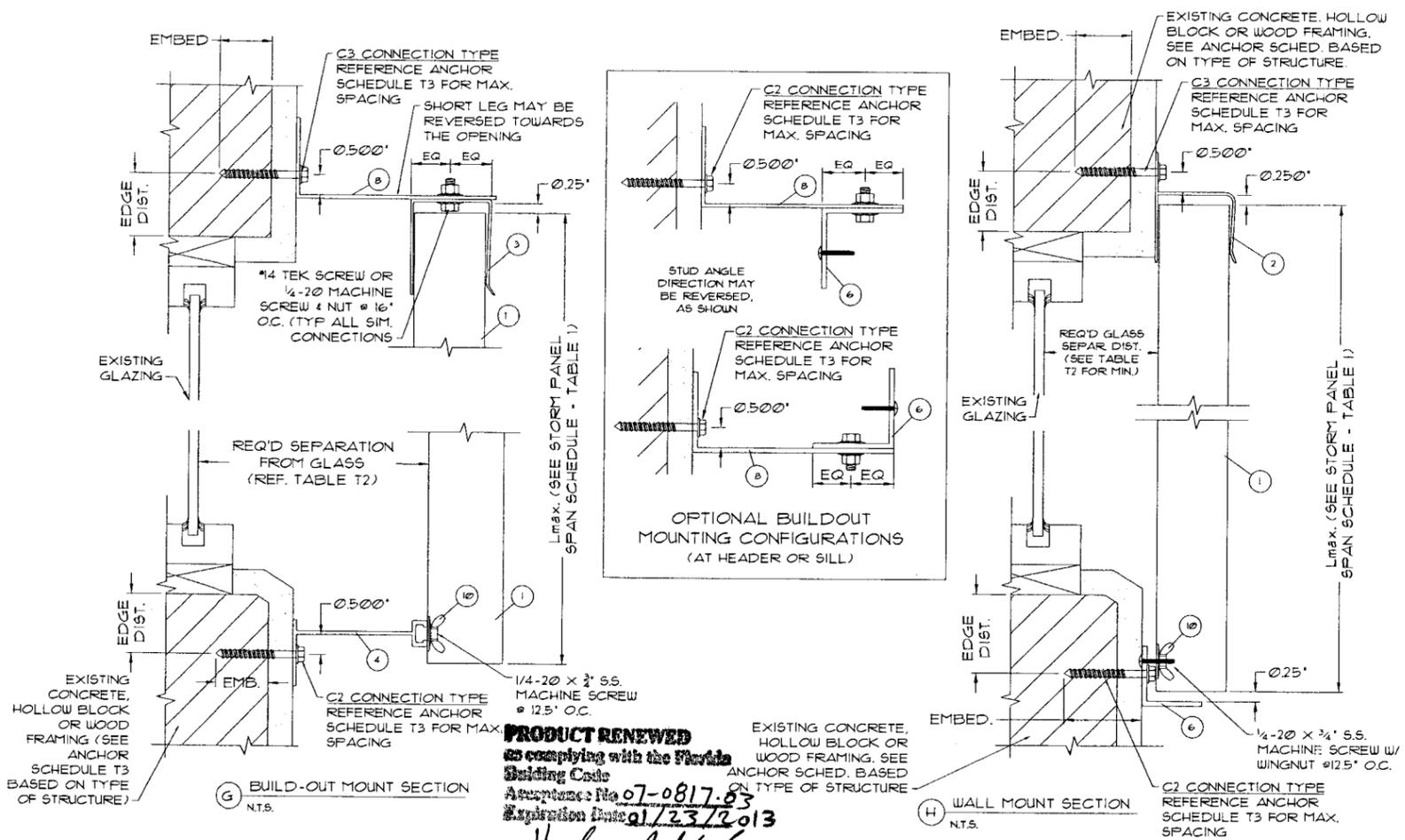
Positive Load (psf)	Span Less Than:	Separation (inches) at <= 30'	Separation (inches) at > 30'
30	6' - 0"	2.75"	1.22"
	8' - 8"	2.75"	1.94"
	10' - 5"	3.00"	3.00"
35	6' - 0"	2.75"	1.25"
	8' - 8"	2.75"	2.10"
	10' - 0"	3.00"	3.00"
40	6' - 0"	2.75"	1.29"
	8' - 8"	2.75"	2.26"
	9' - 8"	3.00"	3.00"
45	6' - 0"	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"
	9' - 8"	2.75"	2.44"
60	6' - 0"	2.75"	1.43"
	8' - 1"	2.75"	2.44"
70	6' - 0"	2.75"	1.51"
	7' - 6"	2.75"	2.24"

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.

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.



Approved as complying with the Florida Building Code  
Date 01/23/2003  
NOA# 02-1120-02  
Miami Dade Product Control Division  
By Helmy A. Maher

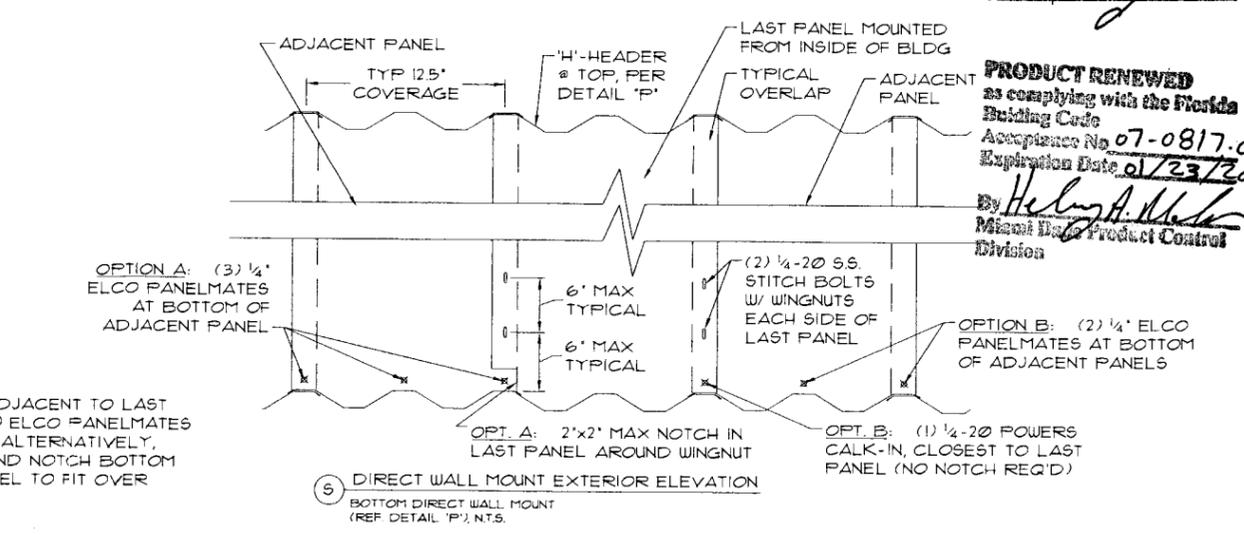
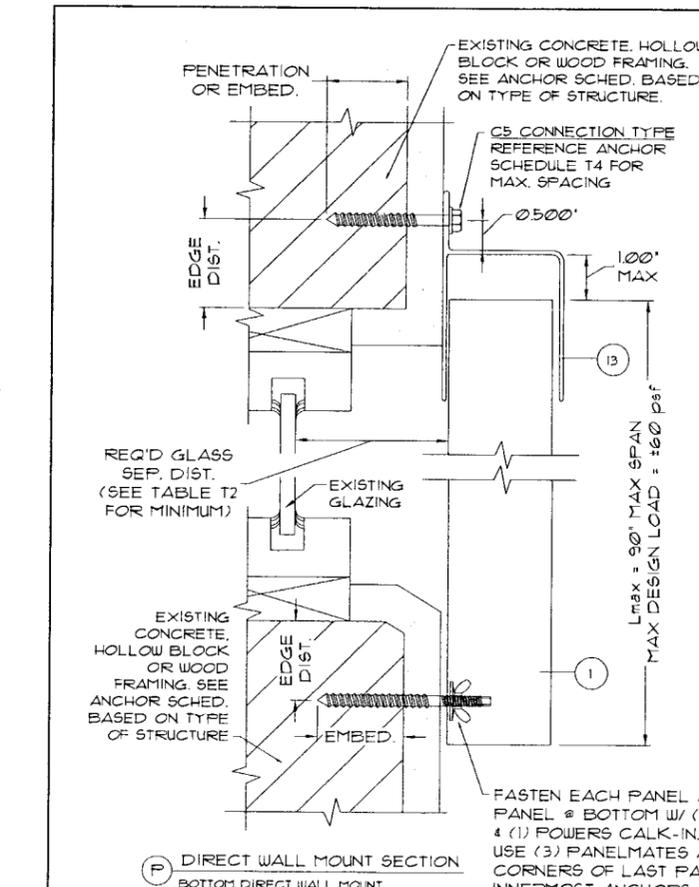
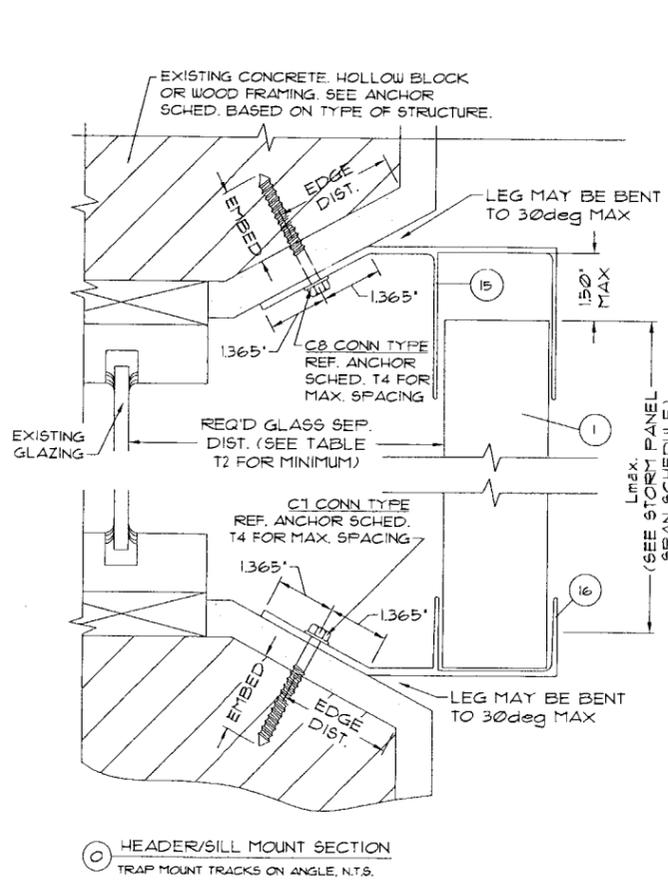
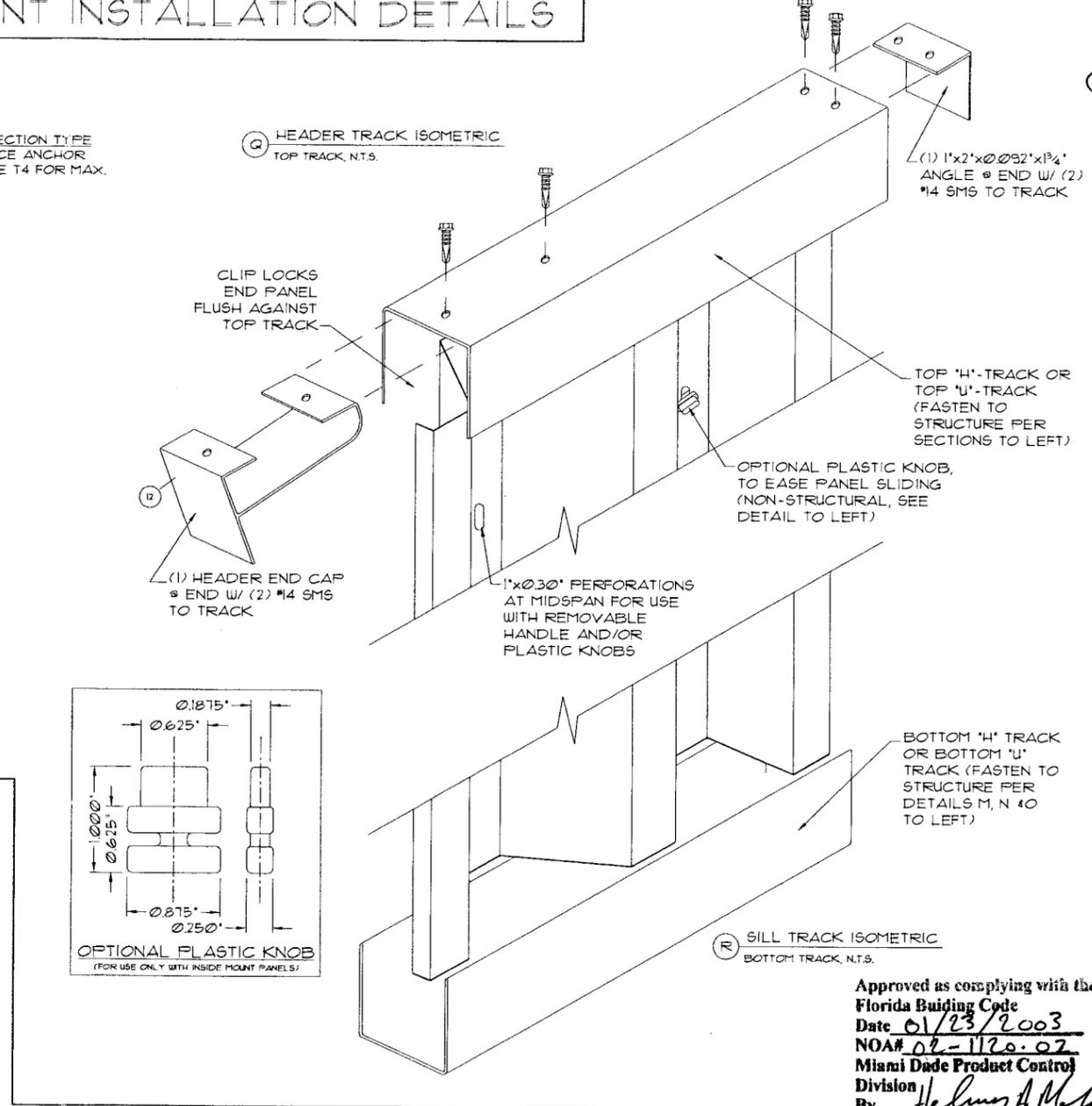
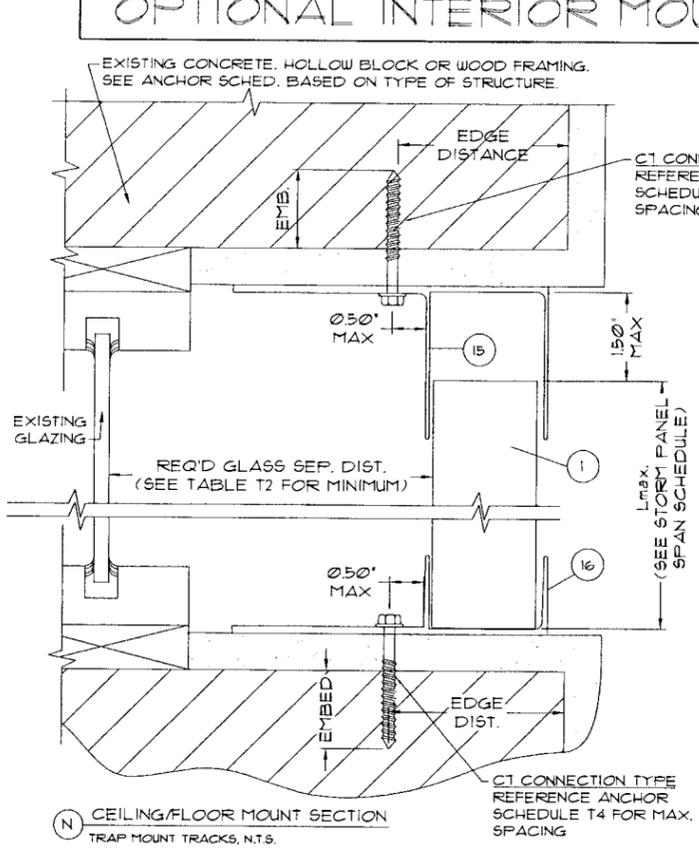
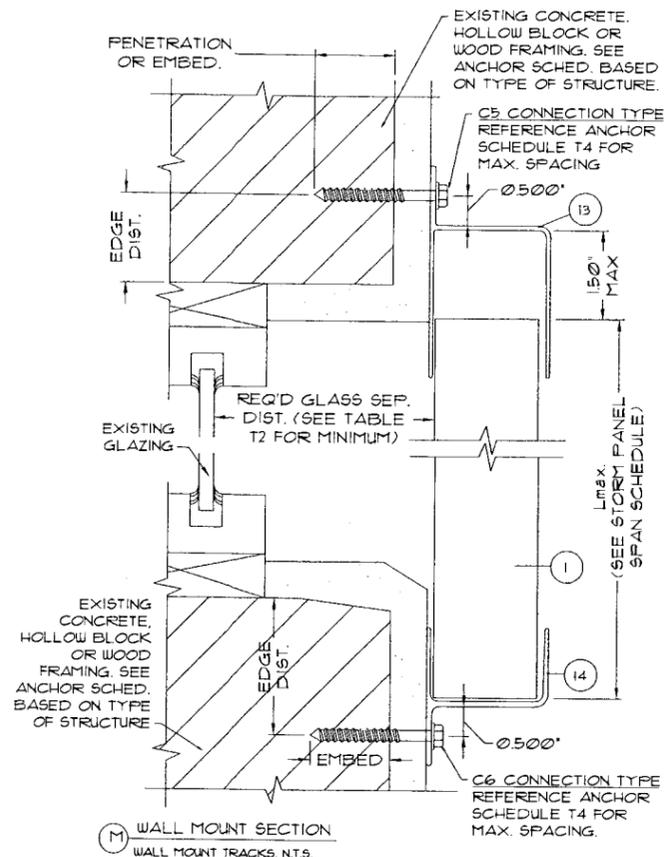
# OPTIONAL INTERIOR MOUNT INSTALLATION DETAILS

JAN 02 2003

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FLORIDA STORM PANELS, INC.  
14475 N.W. 26th AVENUE  
OPA-LOCKA, FL 33054  
22ga GALVANIZED  
STEEL STORM PANELS



Approved as complying with the Florida Building Code  
Date 01/23/2003  
NOA# 02-1120-07  
Miami Dade Product Control  
Division  
By Helmy A. M. ...

PRODUCT RENEWED  
as complying with the Florida Building Code  
Acceptance No. 07-0817.03  
Expiration Date 01/23/2013  
By Helmy A. M. ...  
Miami Dade Product Control Division

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	12/03
SCALE: 3" = 1' (UNQ.)	
DRAWN BY: CL	
CHECKED BY: FLB	
PRINT DATE: 11/18/02	
DWG #: 02-868-III	
SHEET: 3 OF 4	

**T3 ANCHOR SPACING SCHEDULE**

EXIST. STRUCT.	ANCHOR	LOAD (psf)	2.5" EDGE DISTANCE											
			SPANS UP TO 5.50 ft				SPANS UP TO 8.67 ft				SPANS UP TO 10.67 ft			
			CONN TYPE				CONN TYPE				CONN TYPE			
CONCRETE	1/4" x 1-3/4" EMBED	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"
	ELCO TAPCON	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"
	(MIN 3320 PSI CONC)	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"
	Tcap (lb) = 483.00	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"
	Vcap (lb) = 475.00	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"x7/8" EMBED	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"
	ALL-POINTS SOLID-SET	49	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	10.2"	11.8"	12.5"	16.0"	10.6"	12.1"
	LEAD SHIELD ANCHOR *	58	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	7.9"	9.9"	12.5"	16.0"	7.1"	9.5"
	Tcap (lb) = 428	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"
	Vcap (lb) = 429	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" x 2" EMBED	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"
	ELCO PANELMATE	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"
(MIN 3350 PSI CONC) *	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"	
Tcap (lb) = 372.00	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"	
Vcap (lb) = 565.00	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"	

EXIST. STRUCT.	ANCHOR	LOAD (psf)	2.5" EDGE DISTANCE											
			SPANS UP TO 5.50 ft				SPANS UP TO 8.67 ft				SPANS UP TO 10.67 ft			
			CONN TYPE				CONN TYPE				CONN TYPE			
HOLLOW CONC BLOCK	1/4" x 1-1/4" EMBED	39	12.5"	16.0"	16.0"	15.8"	12.5"	15.5"	7.8"	9.9"	12.5"	12.6"	5.4"	7.9"
	ELCO TAPCON	49	12.5"	16.0"	12.7"	12.5"	6.25"	12.3"	5.2"	7.7"	6.25"	10.0"	3.8"	6.2"
	Tcap (lb) = 218.00	72	12.5"	16.0"	8.7"	10.5"	6.25"	10.4"	4.0"	6.5"	6.25"	9.7"	3.6"	6.0"
	Vcap (lb) = 398.00	130	6.25"	9.7"	3.6"	6.0"	6.25"	9.7"	3.6"	6.0"	6.25"	9.7"	3.6"	6.0"
	1/4"x7/8" EMBED	39	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	12.7"	10.3"	12.5"	16.0"	8.8"	8.3"
	ALL-POINTS SOLID-SET	49	12.5"	16.0"	16.0"	13.1"	12.5"	16.0"	8.5"	8.2"	12.5"	16.0"	6.2"	6.6"
	LEAD SHIELD ANCHOR *	58	12.5"	16.0"	14.3"	11.0"	12.5"	16.0"	6.6"	6.9"	12.5"	15.9"	5.9"	6.4"
	Tcap (lb) = 358	72	12.5"	16.0"	9.6"	8.8"	12.5"	15.9"	5.9"	6.4"	12.5"	15.9"	5.9"	6.4"
	Vcap (lb) = 249	130	12.5"	15.9"	5.9"	6.4"	12.5"	15.9"	5.9"	6.4"	12.5"	15.9"	5.9"	6.4"
	1/4" x 1-1/4" EMBED	39	12.5"	16.0"	16.0"	12.2"	12.5"	14.5"	7.3"	7.7"	6.25"	11.8"	5.1"	6.2"
	ELCO PANELMATE	49	12.5"	16.0"	11.9"	9.7"	6.25"	11.6"	4.9"	6.0"	6.25"	9.4"	3.6"	4.9"
	Tcap (lb) = 204.75	72	12.5"	15.4"	8.2"	8.1"	6.25"	9.8"	3.8"	5.1"	6.25"	9.1"	3.4"	4.7"
Vcap (lb) = 233.50	130	6.25"	9.1"	3.4"	4.7"	6.25"	9.1"	3.4"	4.7"	6.25"	9.1"	3.4"	4.7"	

EXIST. STRUCT.	ANCHOR	LOAD (psf)	0.75" EDGE DISTANCE											
			SPANS UP TO 5.50 ft				SPANS UP TO 8.67 ft				SPANS UP TO 10.67 ft			
			CONN TYPE				CONN TYPE				CONN TYPE			
WOOD	1/4" x 2" THREAD	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"
	PENETR. LAG SCREW	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"
	Tcap (lb) = 359.53	72	12.5"	16.0"	14.4"	5.1"	12.5"	16.0"	6.6"	3.2"	12.5"	16.0"	6.0"	3.1"
	Vcap (lb) = 82.97	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	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"
	PENETR. WOOD SCREW	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"
	Tcap (lb) = 234.00	72	12.5"	16.0"	9.3"	5.1"	6.25"	11.2"	4.3"	3.2"	6.25"	10.4"	3.9"	3.1"
	Vcap (lb) = 96.74	130	6.25"	10.4"	3.9"	3.1"	6.25"	10.4"	3.9"	3.1"	6.25"	10.4"	3.9"	3.1"
	7/16" x 5/8" EMBED	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"
	BRASS BUSHING & 1/4-20 SCREW *	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"
	Tcap (lb) = 231.50	72	12.5"	14.0"	6.2"	6.9"	6.25"	11.1"	4.3"	5.4"	6.25"	10.3"	3.8"	5.0"
	Vcap (lb) = 232.50	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 DIST.			
			SPANS UP TO 5.50 ft		SPANS UP TO 8.67 ft	
			CONN TYPE		CONN TYPE	
CONCRETE	1/4" x 1-3/4" EMBED	39	16.0"	16.0"	16.0"	16.0"
	ELCO TAPCON	45	16.0"	16.0"	11.4"	16.0"
	(MIN 3320 PSI CONC)	55	16.0"	16.0"	7.5"	16.0"
	Tcap (lb) = 483.00	65	14.2"	16.0"	6.0"	16.0"
	Vcap (lb) = 475.00	72	11.0"	16.0"	6.0"	16.0"
	1/4"x7/8" EMBED	39	16.0"	16.0"	14.8"	16.0"
	ALL-POINTS SOLID-SET	45	16.0"	16.0"	10.1"	16.0"
	LEAD SHIELD ANCHOR *	55	16.0"	16.0"	6.6"	16.0"
	Tcap (lb) = 428	65	12.6"	16.0"	5.3"	16.0"
	Vcap (lb) = 429	72	9.8"	16.0"	5.3"	16.0"
	1/4" x 2" EMBED	39	16.0"	16.0"	12.9"	16.0"
	ELCO PANELMATE	45	16.0"	16.0"	8.8"	16.0"
(MIN 3350 PSI CONC) *	55	16.0"	16.0"	5.8"	16.0"	
Tcap (lb) = 372.00	65	11.0"	16.0"	4.6"	16.0"	
Vcap (lb) = 565.00	72	8.5"	16.0"	4.6"	16.0"	

EXIST. STRUCT.	ANCHOR	LOAD (psf)	2.5" EDGE DIST.			
			SPANS UP TO 5.50 ft		SPANS UP TO 8.67 ft	
			CONN TYPE		CONN TYPE	
HOLLOW CONC BLOCK	1/4" x 1-1/4" EMBED	39	16.0"	16.0"	7.5"	15.5"
	ELCO TAPCON	45	16.0"	16.0"	5.2"	13.4"
	Tcap (lb) = 218.00	55	11.0"	16.0"	3.4"	11.0"
	Vcap (lb) = 398.00	72	6.4"	14.6"	9.7"	9.7"
	1/4"x7/8" EMBED	39	16.0"	16.0"	12.4"	16.0"
	ALL-POINTS SOLID-SET	45	16.0"	16.0"	8.5"	16.0"
	LEAD SHIELD ANCHOR *	55	16.0"	16.0"	5.5"	16.0"
	Tcap (lb) = 358	65	10.5"	16.0"	4.4"	15.9"
	Vcap (lb) = 249	72	8.2"	16.0"	4.4"	15.9"
	1/4" x 1-1/4" EMBED	39	16.0"	16.0"	7.1"	14.5"
	ELCO PANELMATE	45	16.0"	16.0"	4.8"	12.6"
	Tcap (lb) = 204.75	55	10.3"	16.0"	3.2"	10.3"
Vcap (lb) = 233.50	72	6.0"	13.7"	9.1"	9.1"	

EXIST. STRUCT.	ANCHOR	LOAD (psf)	0.75" EDGE DISTANCE			
			SPANS UP TO 5.50 ft		SPANS UP TO 8.67 ft	
			CONN TYPE		CONN TYPE	
WOOD	1/4" x 2" THREAD	39	16.0"	16.0"	12.4"	16.0"
	PENETR. LAG SCREW	45	16.0"	16.0"	8.5"	16.0"
	Tcap (lb) = 359.53	55	16.0"	16.0"	5.6"	16.0"
	Vcap (lb) = 82.97	72	10.6"	16.0"	4.4"	16.0"
	#14 x 1-1/2" THREAD	39	16.0"	16.0"	8.1"	16.0"
	PENETR. WOOD SCREW	45	16.0"	16.0"	5.5"	14.4"
	Tcap (lb) = 234.00	55	11.8"	16.0"	3.6"	11.8"
	Vcap (lb) = 96.74	72	6.9"	15.7"	10.4"	10.4"
	7/16" x 5/8" EMBED	39	16.0"	16.0"	8.0"	16.0"
	BRASS BUSHING & 1/4-20 SCREW *	45	16.0"	16.0"	5.5"	14.2"
	Tcap (lb) = 231.50	55	11.7"	16.0"	3.6"	11.7"
	Vcap (lb) = 232.50	72	6.8"	15.5"	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 5.50 ft		SPANS UP TO 8.67 ft	
			CONN TYPE		CONN TYPE	
CONCRETE	1/4" x 1-3/4" EMBED	39	16.0"	15.3"	13.6"	9.7"
	ELCO TAPCON	45	16.0"	13.2"	11.8"	8.4"
	(MIN 3320 PSI CONC)	55	15.2"	10.8"	9.6"	6.9"
	Tcap (lb) = 386.40	65	12.9"	9.2"	8.5"	6.0"
	Vcap (lb) = 380.00	72	11.6"	8.3"	8.5"	6.0"
	1/4"x7/8" EMBED	39	16.0"	16.0"	15.2"	10.8"
	ALL-POINTS SOLID-SET	45	16.0"	14.7"	13.2"	9.3"
	LEAD SHIELD ANCHOR *	55	16.0"	12.0"	10.8"	7.6"
	Tcap (lb) = 428	65	14.4"	10.2"	9.5"	6.7"
	Vcap (lb) = 429	72	13.0"	9.2"	9.5"	6.7"
	1/4" x 2" EMBED	39	16.0"	11.6"	10.3"	7.4"
	ELCO PANELMATE	45	14.1"	10.1"	8.9"	6.4"
(MIN 3350 PSI CONC) *	55	11.5"	8.2"	7.3"	5.2"	
Tcap (lb) = 297.60	65	9.7"	7.0"	6.4"	4.6"	
Vcap (lb) = 282.50	72	8.8"	6.3"	6.4"	4.6"	

EXIST. STRUCT.	ANCHOR	LOAD (psf)	2.0" EDGE DISTANCE			
			SPANS UP TO 5.50 ft		SPANS UP TO 8.67 ft	
			CONN TYPE		CONN TYPE	
HOLLOW CONC BLOCK	1/4" x 1-1/4" EMBED	39	12.6"	8.2"	8.0"	5.2"
	ELCO TAPCON	45	10.9"	7.1"	6.9"	4.5"
	Tcap (lb) = 174.00	55	8.9"	5.8"	5.7"	3.7"
	Vcap (lb) = 318.00	72	7.5"	4.9"	5.0"	3.3"
	1/4"x7/8" EMBED	39	16.0"	12.3"	10.4"	7.8"
	ALL-POINTS SOLID-SET	45	14.2"	10.7"	9.0"	6.8"
	LEAD SHIELD ANCHOR *	55	11.7"	8.7"	7.4"	5.5"
	Tcap (lb) = 358	65	9.9"	7.4"	6.5"	4.9"
	Vcap (lb) = 249	72	8.9"	6.7"	6.5"	4.9"
	1/4" x 1-1/4" EMBED	39	11.2"	8.0"	7.1"	5.1"
	ELCO PANELMATE	45	9.7"	6.9"	6.2"	4.4"
	Tcap (lb) = 201.50	55	7.9"	5.6"	5.0"	3.6"
Vcap (lb) = 198.50	72	6.1"	4.3"	4.4"	3.2"	

EXIST. STRUCT.	ANCHOR	LOAD (psf)	0.75" EDGE DISTANCE			
			SPANS UP TO 5.50 ft		SPANS UP TO 8.67 ft	
			CONN TYPE		CONN TYPE	
WOOD	1/4" x 2" THREAD	39	7.5"	6.5"	4.8"	4.2"
	PENETR. LAG SCREW	45	6.5"	5.7"	4.1"	3.6"
	Tcap (lb) = 359.53	55	5.3"	4.6"	3.4"	3.6"
	Vcap (lb) = 82.97	72	4.1"	3.5"		