



**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)**

**Hurst Awning Co., Inc.**  
**6865 NW 36<sup>th</sup> Avenue**  
**Miami, FL 33147**

**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: 0.050" Aluminum Storm Panels Shutter**

**APPROVAL DOCUMENT:** Drawing No. 06-342, titled "0.050" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Thornton-Tomasetti Group, dated April 04, 2006, last revision #0 dated April 04, 2006, signed and sealed by J. W. Knezevich, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the 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 # **06-0424.01** and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

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



*Helmy A. Makar*  
 08/23/2007

**NOA No. 07-0322.03**  
**Expiration Date: 08/19/2008**  
**Approval Date: 08/23/2007**  
 Page 1

**Hurst Awning Co., Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0621.06**

**A. DRAWINGS**

1. *Drawing No. 99-109, titled "0.050" Aluminum Storm Panel", prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E., dated June 8, 1999, last revision #1 dated July 20, 1999, sheets 1 through 4 of 4.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 0.050" aluminum storm panels, prepared by Construction Testing Corporation, Report No. CTC-99-023, dated May 14, 1999, signed and sealed by Yamil G. Kuri, P.E.*

**C. CALCULATIONS**

1. *Comparative Analysis, Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated June 10, 1999, pages 1 through 33, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *Mill Certified Inspection Report of coils, dated May 4, 1999, for Aluminum Alloy 5052-H32 by Amcrimet, with chemical composition and physical properties.*
2. *Certified Tensile Test Report by Certified Testing Laboratories, Report No. CTL-530E, dated May 13, 1999 for sample #99-023, in accordance with ASTM E8, signed and sealed by Ramish Patel, P.E.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0315.02**

**A. DRAWINGS**

*See NOA 99-0621.06*

**B. TESTS**

*See NOA 99-0621.06*

**C. CALCULATIONS**

*See NOA 99-0621.06*

**D. MATERIAL CERTIFICATIONS**

*See NOA 99-0621.06*

**E. STATEMENTS**

*See NOA 99-0621.06*



Helmy A. Makar, P.E., M.S.

Product Control Examiner

NOA No. 07-0322.03

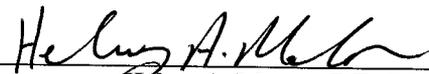
Expiration Date: 08/19/2008

Approval Date: 08/23/2007

Hurst Awning Co., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- F. OTHER**  
*See NOA 99-0621.06*
- 3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0624.05**
- A. DRAWINGS**  
*1. None.*
- B. TESTS**  
*1. None.*
- C. CALCULATIONS**  
*1. None.*
- D. MATERIAL CERTIFICATIONS**  
*1. None.*
- E. STATEMENTS**  
*1. Statement letter of no change, issued by Hurst Awning Co., Inc., signed by Frank Cornelius, dated 6/21/02.*
- 4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0731.15**
- A. DRAWINGS**  
*1. Drawing No. 02-373, titled "0.050" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Knezevich & Associates, Inc., dated July 19, 2002, last revision #1 dated August 26, 2002, signed and sealed by V.J. Knezevich, P.E.*
- B. TESTS**  
*1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 20 ga. Steel storm panels, prepared by Construction Testing Corporation, Report No. CTC-98-044, dated September 08, 1998, signed and sealed by Christopher G. Tyson, P.E.*
- C. CALCULATIONS**  
*1. Comparative Analysis, Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated July 22, 2002, pages 1 through 16, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*
- D. MATERIAL CERTIFICATIONS**  
*1. None.*



Helmy A. Makar, P.E., M.S.  
Product Control Examiner  
NOA No. 07-0322.03  
Expiration Date: 08/19/2008  
Approval Date: 08/23/2007

**Hurst Awning Co., Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-0424.01**

**A. DRAWINGS**

1. *Drawing No. 06-342, titled "0.050" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Thornton-Tomasetti Group, dated April 04, 2006, last revision #0 dated April 04, 2006, signed and sealed by J. W. Knezevich, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATION:**

1. *None.*

**6. 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 CERTIFICATION:**

1. *None.*



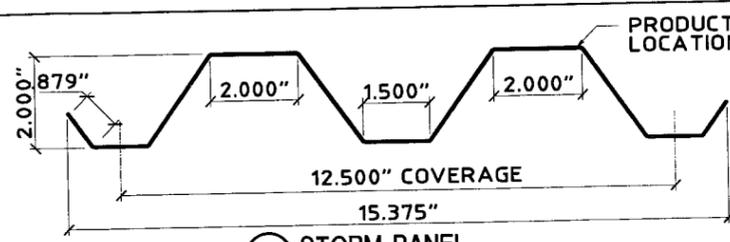
**Helmy A. Makar, P.E., M.S.**

**Product Control Examiner**

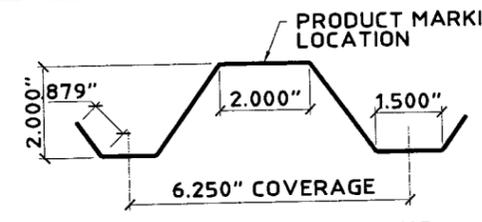
**NOA No. 07-0322.03**

**Expiration Date: 08/19/2008**

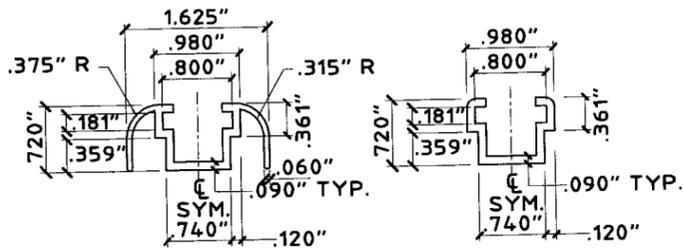
**Approval Date: 08/23/2007**



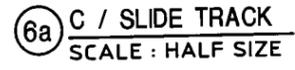
**1 STORM PANEL**  
SCALE: 3" = 1'-0"



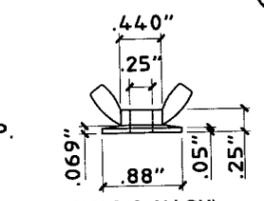
**1a STORM PANEL**  
SCALE: 3" = 1'-0"



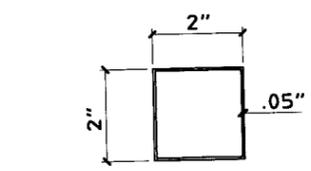
**6 DECORATIVE C-TRACK**  
SCALE: HALF SIZE



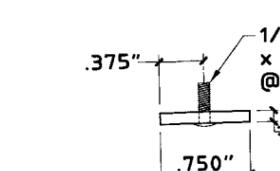
**6a C / SLIDE TRACK**  
SCALE: HALF SIZE



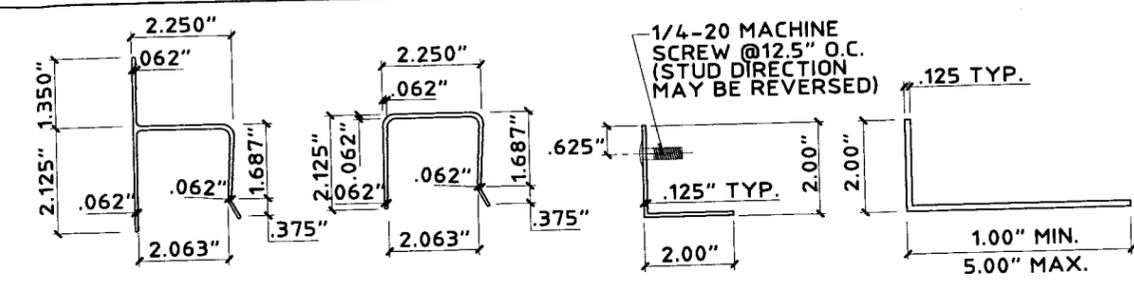
**9 WING NUT**  
SCALE: HALF SIZE



**10 2\"/>**



**11 STUDED STRAP (SLIDER)**  
SCALE: HALF SIZE

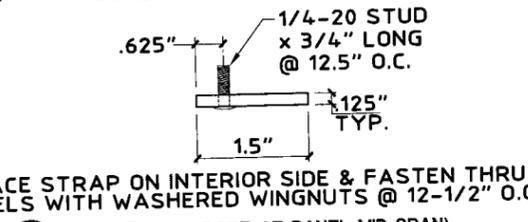
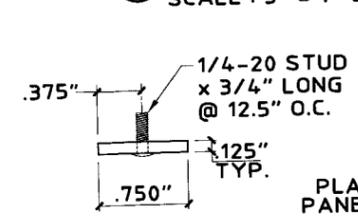


**2 'h' HEADER**  
SCALE: 3" = 1'-0"

**3 'U' HEADER**  
SCALE: 3" = 1'-0"

**4 STUD ANGLE**  
SCALE: 3" = 1'-0"

**5 ANGLE**  
SCALE: 3" = 1'-0"

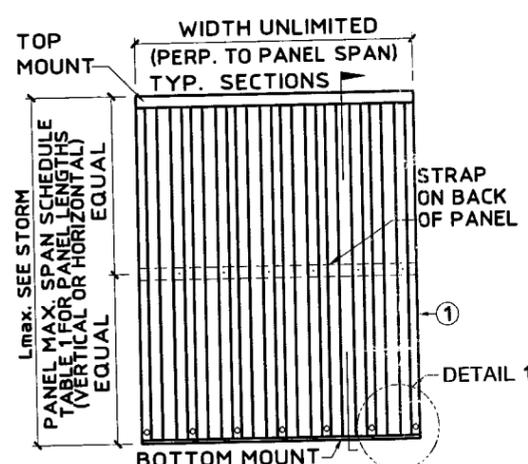


**12 STRAP (SUPPORT AT PANEL MID-SPAN)**  
SCALE: HALF SIZE

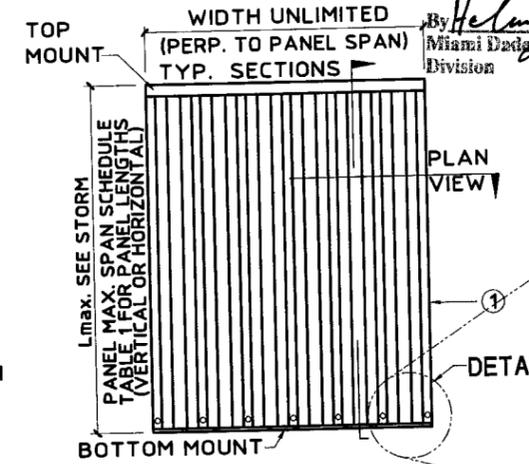
**13 'F' TRACK**  
SCALE: 3" = 1'-0"

**GENERAL NOTES:**

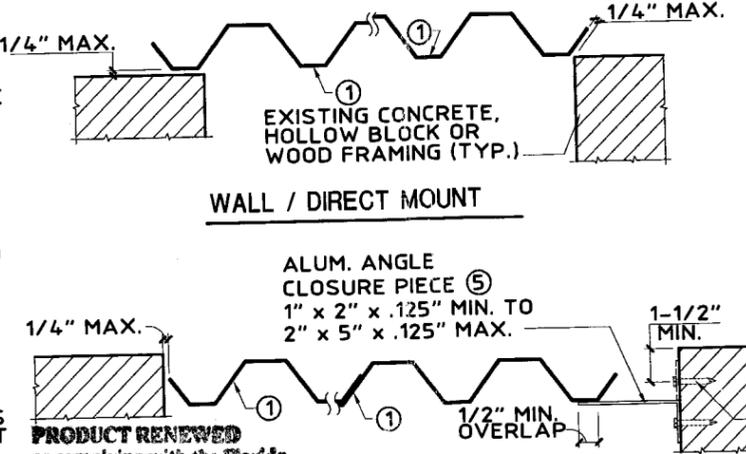
1. THESE APPROVAL DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE 2004 EDITION WITH 2005 SUPPLEMENT.
2. NO ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD LAG SCREW DESIGN.
3. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-02, A DIRECTIONALITY FACTOR OF Kd = 0.85 SHALL BE USED.
4. THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
5. USE OF THESE APPROVAL DOCUMENTS COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
6. THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
7. ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
8. WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
  - A) REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
  - B) REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND 1/4" MAX. SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION
9. PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MIN OF ONE MARKING PER PANEL AND SHALL BE LABELED AS FOLLOWS:  
HURST AWNING CO., INC.  
MIAMI, FLORIDA  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
10. STORM PANELS SHALL BE 5052-H32 WITH THE FOLLOWING BARE METAL THICKNESS AND MECHANICAL PROPERTIES:  
NOMINAL 0.050" (0.0485" MIN. BARE METAL THICKNESS), WITH A MIN. Fy = 29.2 KSI
11. ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N.
12. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N
13. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR "h" AND "U" HEADER MOUNTING CONDITIONS.
14. AT LEAST ONE WARNING NOTE PER OPENING SHALL BE PLACED IN A CONSPICUOUS LOCATION ON ANY OF THE COMPONENTS OF THE STORM PANELS SYSTEM ADVISING THE HOME OWNER OR TENANT THAT THE STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL REINFORCING BOLTS AND/OR STRAPS ARE PROPERLY INSTALLED WHEN REQUIRED. WARNING LABEL SHALL BE FASTENED WITH PERMANENT ADHESIVE OR MECHANICALLY.



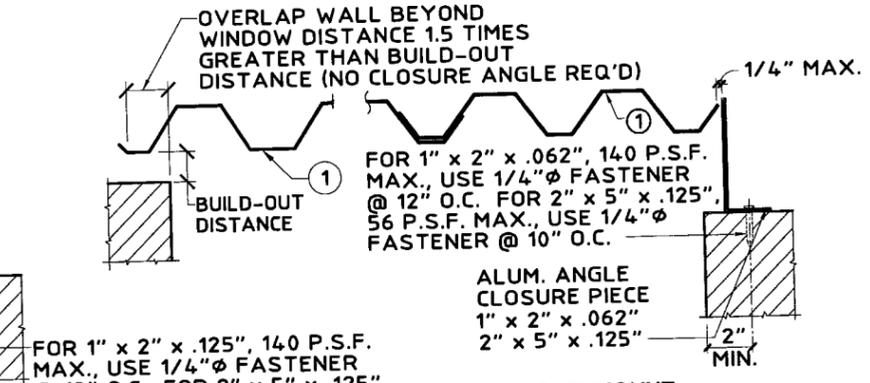
**14 TYPICAL VERTICAL MOUNT W/ STRAP ELEVATION**  
N.T.S.



**14 TYPICAL VERTICAL MOUNT W/O STRAP ELEVATION**  
N.T.S.



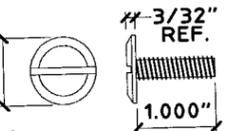
**14 WALL / DIRECT MOUNT**  
SCALE: 1-1/2" = 1'-0"



**14 BUILD-OUT MOUNT**  
SCALE: 1-1/2" = 1'-0"

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 06-0424 of Expiration Date 08/19/2008

By Helmut A. Miller Miami Dade Product Control Division



**14 1/4-20 SIDEWALK BOLT FOR SLIDE TRACK**  
SCALE: HALF SIZE

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 07-0322.03 Expiration Date 08/19/2008

By Helmut A. Miller Miami Dade Product Control Division

**TYPICAL CLOSURE DETAILS (PLAN VIEW)**  
SCALE: 1-1/2" = 1'-0"

**Thornton-Tomasetti Group**  
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301  
Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7519  
Website: www.TheTTGroup.com  
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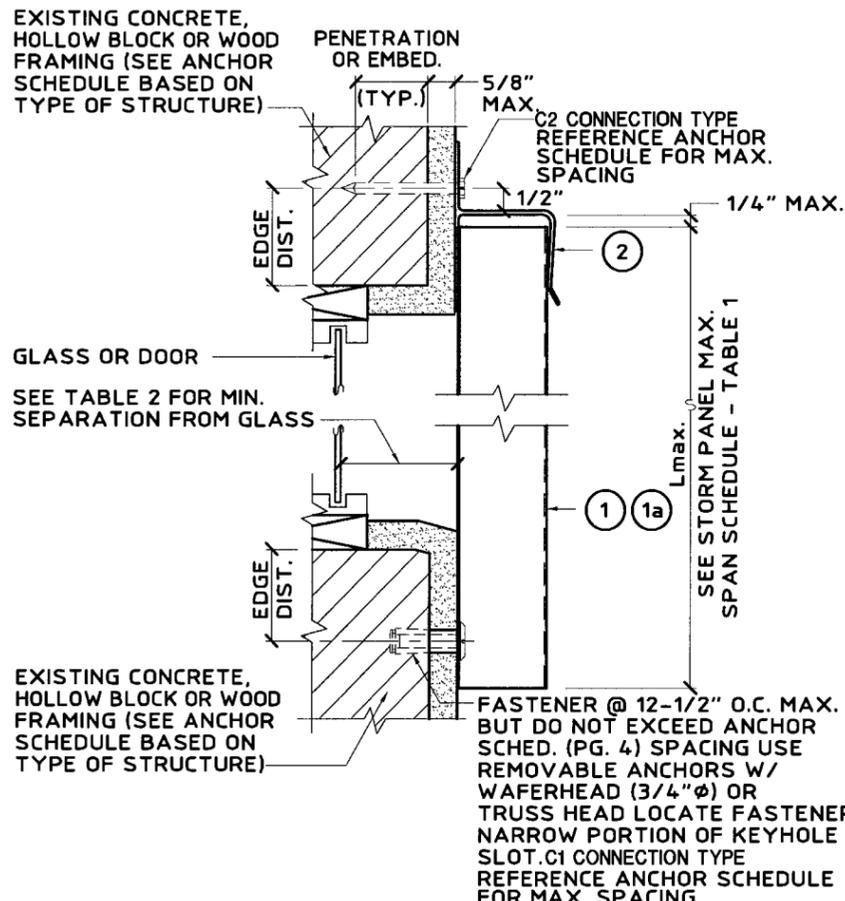
**0.050" ALUMINUM STORM PANEL**  
Manufacturers of Hurricane & Security Protection Products  
6865 N.W. 36th Avenue  
Miami, Florida 33147  
Phone: (305) 635-0900  
Toll Free: (800) 327-0905  
Fax: (305) 634-9078  
**HURST AWNING COMPANY, INC.**  
"QUALITY SERVICE SINCE 1957"

**J.W. Knezevich**  
Professional Engineer  
Fl. License No.: PE 0C41961

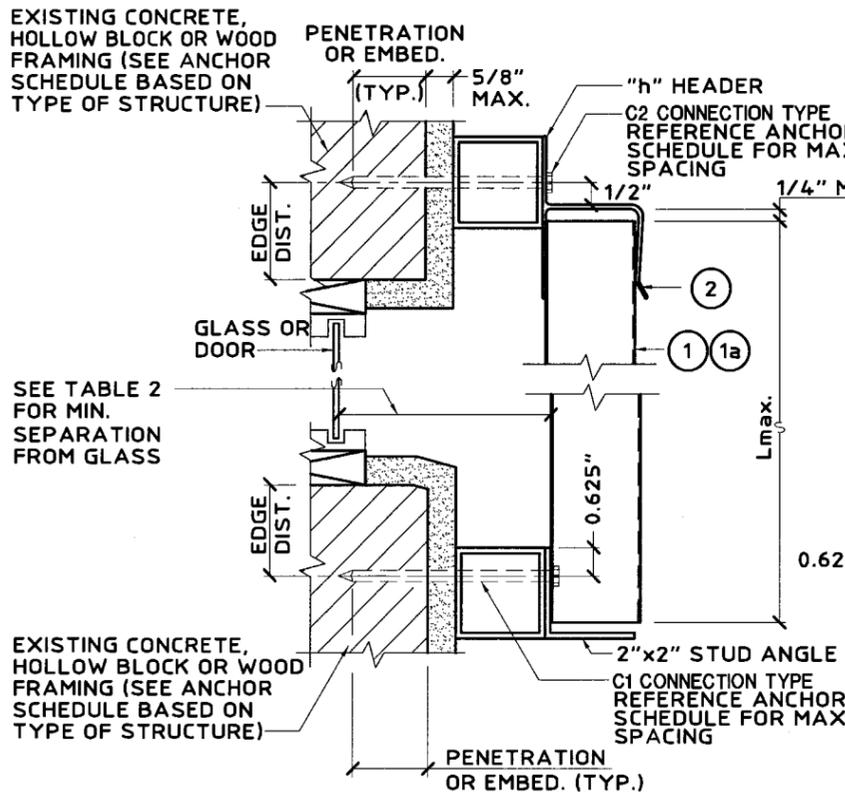
APR 04 2006

no.	date	description
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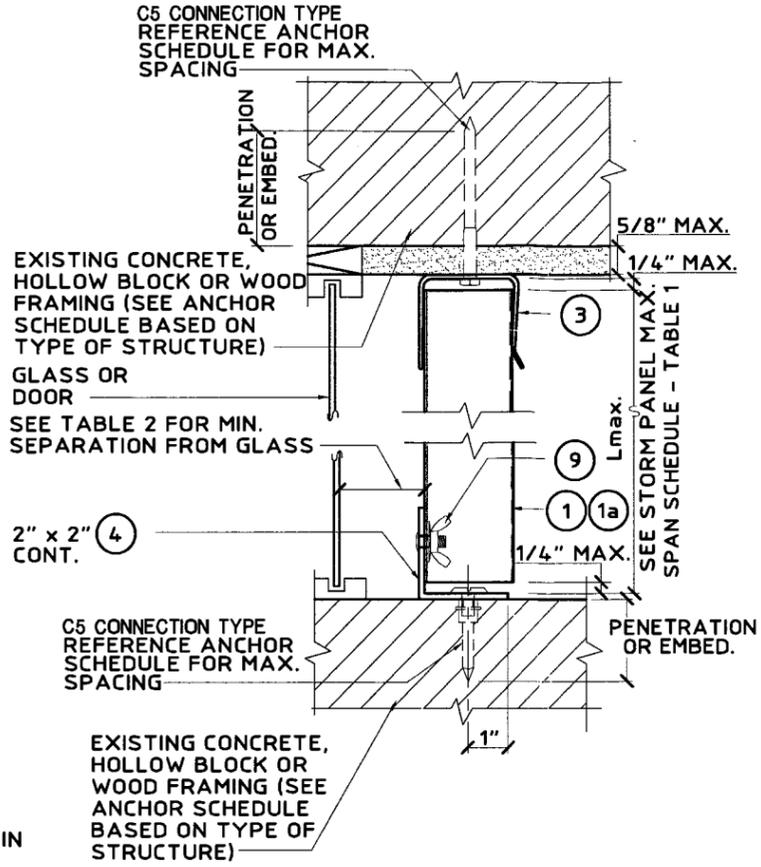
date: 04/04/2006  
scale: AS NOTED  
AS NOTED  
drawing no. 06-342  
sheet 1 of 5



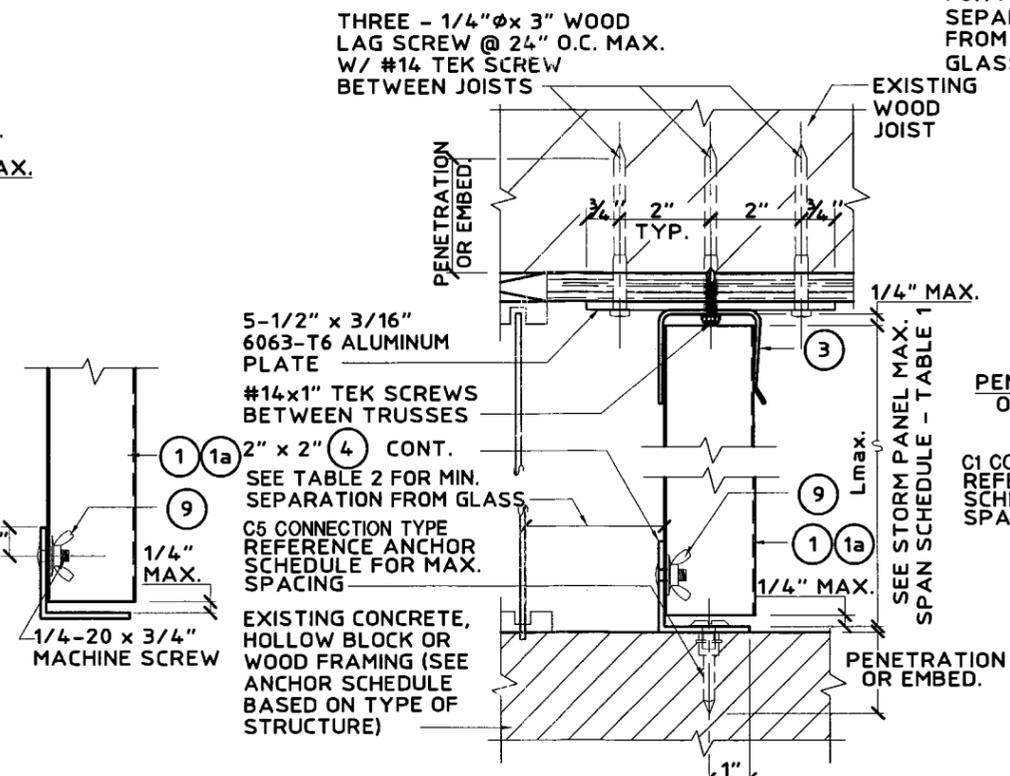
**A** WALL MOUNT SECTION  
SCALE: 3" = 1'-0"



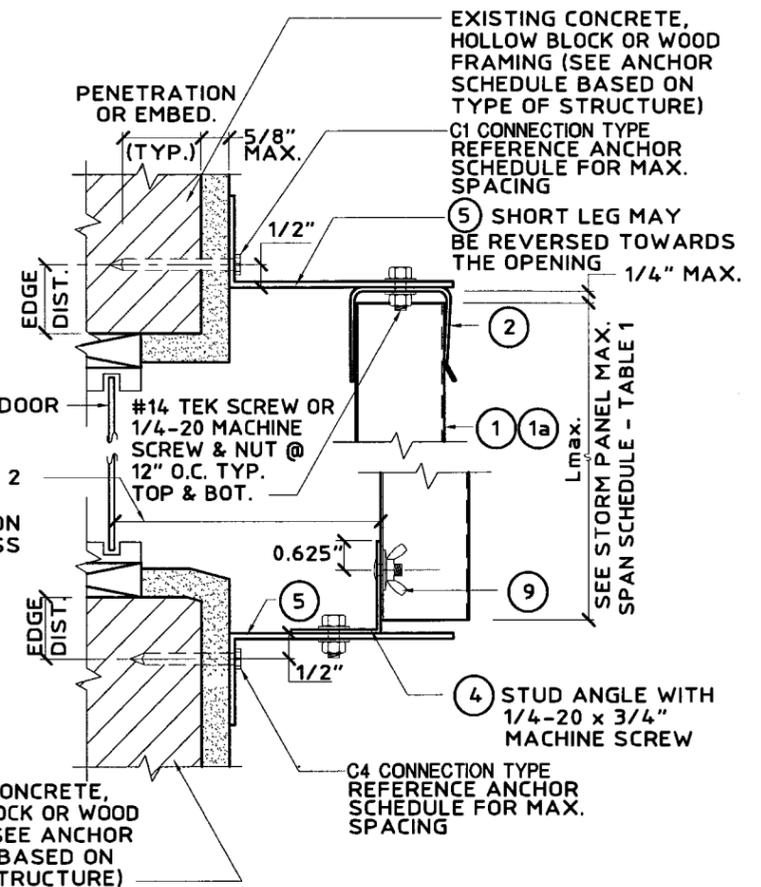
**D** WALL MOUNT SECTION  
SCALE: 3" = 1'-0"



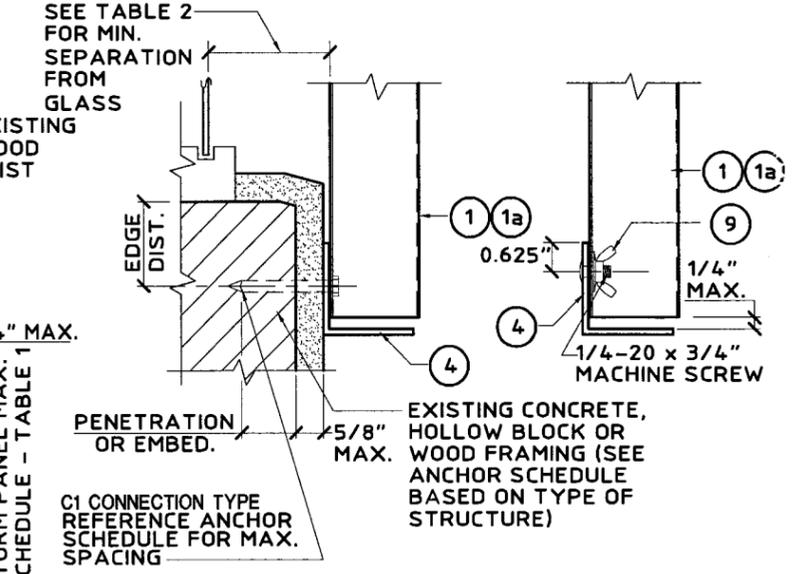
**B** CEILING/FLOOR MOUNT SECTION  
SCALE: 3" = 1'-0"



**E** CEILING/FLOOR MOUNT SECTION  
SCALE: 3" = 1'-0"



**C** WALL BUILD-OUT MOUNT SECTION  
SCALE: 3" = 1'-0"



**F** WALL MOUNT SILL  
SCALE: 3" = 1'-0"

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No. 07-0322.03  
Expiration Date 08/19/2008  
By *Helmut A. Mahr*  
Miami Dade Product Control Division

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 06-0424.01  
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By *Helmut A. Mahr*  
Miami Dade Product Control Division

**Thornton-Tomasetti Group**  
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301  
Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7319  
Website: www.thtgroup.com  
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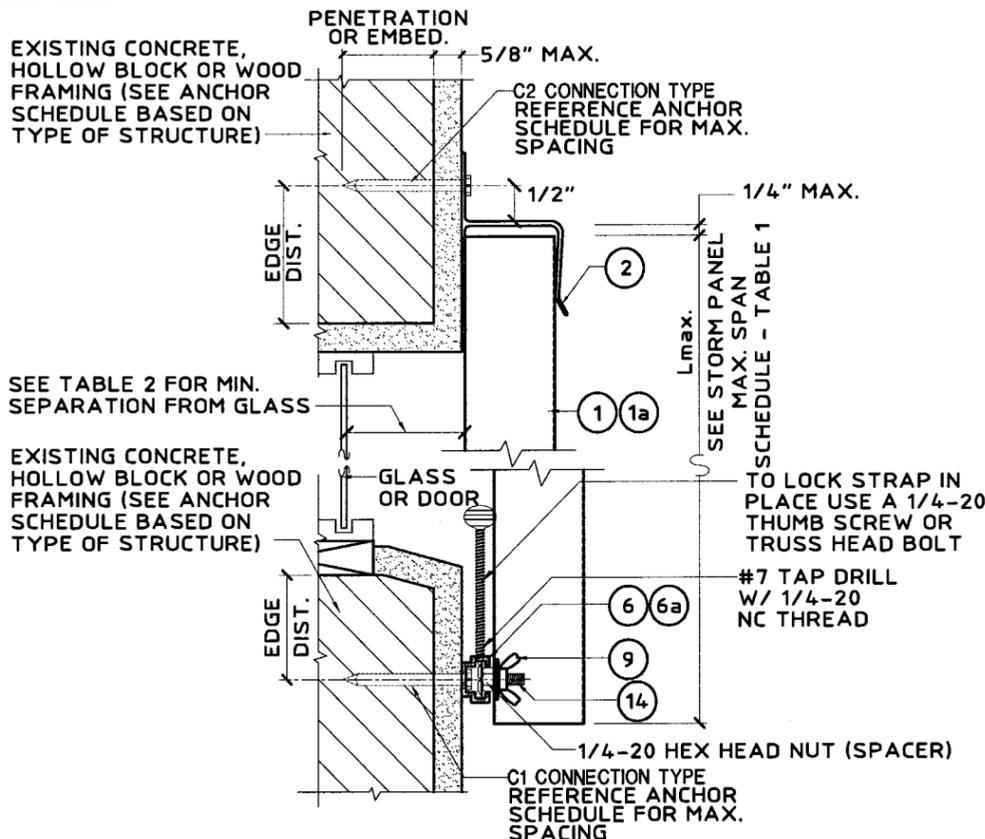
**0.050" ALUMINUM STORM PANEL**  
Manufacturers of Hurricane & Security Protection Products  
6865 N.W. 36th Avenue  
Miami, Florida 33147  
Phone: (305) 635-0900  
Toll Free: (800) 327-0905  
Fax: (305) 634-9078  
**HURST**  
ALUMINUM COMPANY, INC.  
"QUALITY SERVICE SINCE 1957"

J.W. Knezevich  
Professional Engineer  
FL License No.: PE 6041961

APR 04 2006

revisions		description
no.	date	description
0	04/04/2006	JWK

date: 04/04/2006  
scale: AS NOTED  
design by: JWK  
checked by: JWK  
drawing no.: 06-342  
sheet 2 of 5



**G** **WAFER HEAD BOLT ASSEMBLY**  
 SCALE: 3" = 1'-0"  
 1/4-20 NUT IS NOT NECESSARY IF NOT USED AS INSIDE MOUNT

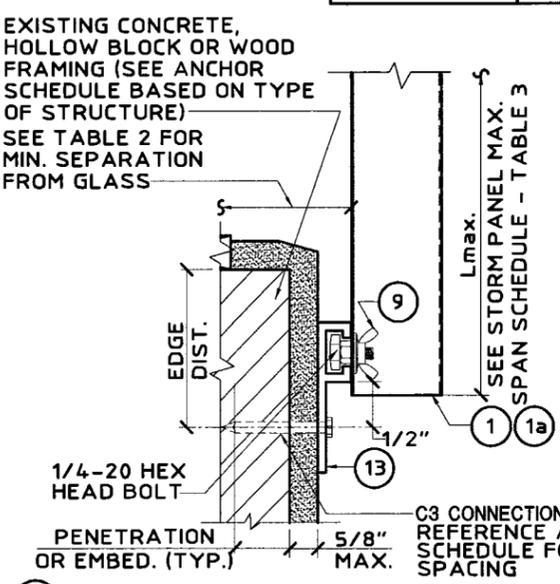
DESIGN LOAD W (PSF)	L MAX. (FT-IN)
70.0	7 - 11
80.0	7 - 5
90.0	7 - 0

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No. 07-0322.03  
 Expiration Date 08/19/2008  
 By Helmut A. Mabe  
 Miami Data Product Control Division

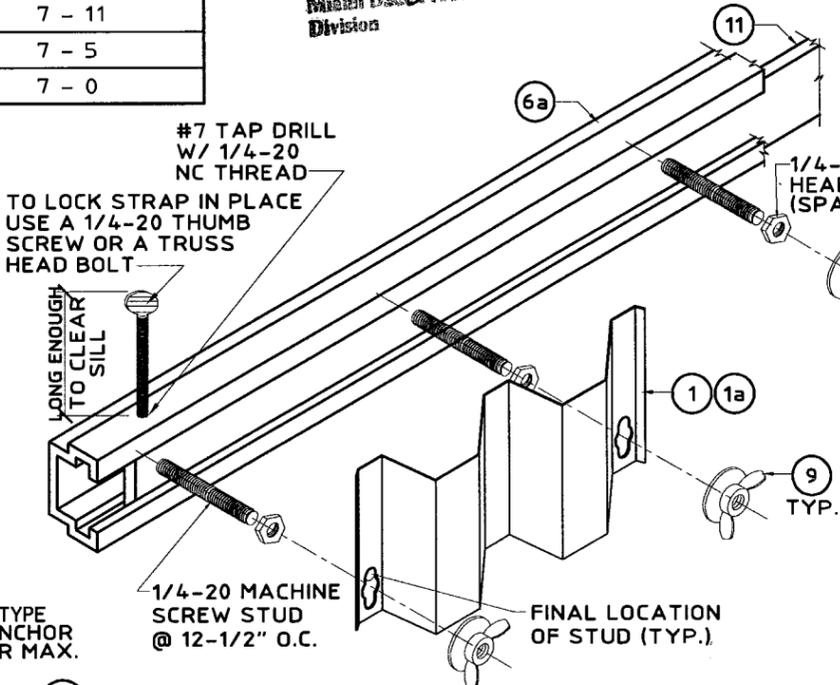
DESIGN LOAD (W) (PSF)	ACTUAL SHUTTER SPAN (FT - IN)	MINIMUM SEPARATION FOR INSTALLATIONS 30' OR LESS ABOVE GRADE (INCHES)		MINIMUM SEPARATION FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)	
		WITH STRAP	WITHOUT STRAP	WITH STRAP	WITHOUT STRAP
35.0	7 - 0	2	2-3/4	1-1/2	1-1/2
	8 - 6	2-1/4	3	2	2
	10 - 6	3	3-3/4	3	3
40.0	7 - 0	2	2-3/4	1-1/2	1-1/2
	8 - 6	2-1/4	3	2	2
	10 - 1	3	3-3/4	3	3
50.0	7 - 0	2	2-3/4	1-3/4	1-3/4
	8 - 6	2-1/4	3	2-1/4	2-1/4
	9 - 4	2-3/4	3-3/4	2-3/4	2-3/4
60.0	6 - 0	2	2-3/4	1-1/2	1-1/2
	7 - 0	2-1/2	2-3/4	1-3/4	1-3/4
	8 - 6	2-1/2	3	2-1/2	2-1/2
70.0	6 - 0	2	2-3/4	1-1/2	1-1/2
	7 - 0	2	2-3/4	1-7/8	1-7/8
	7 - 11	2-3/8	3-3/4	2-3/8	2-3/8

- NOTES:**
- ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAX. PANEL SPAN. POSITIVE LOADS LESS THAN OR EQUAL TO THE NEGATIVE LOAD ARE ACCEPTABLE.
  - ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. SEPARATION FROM GLASS.
  - FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

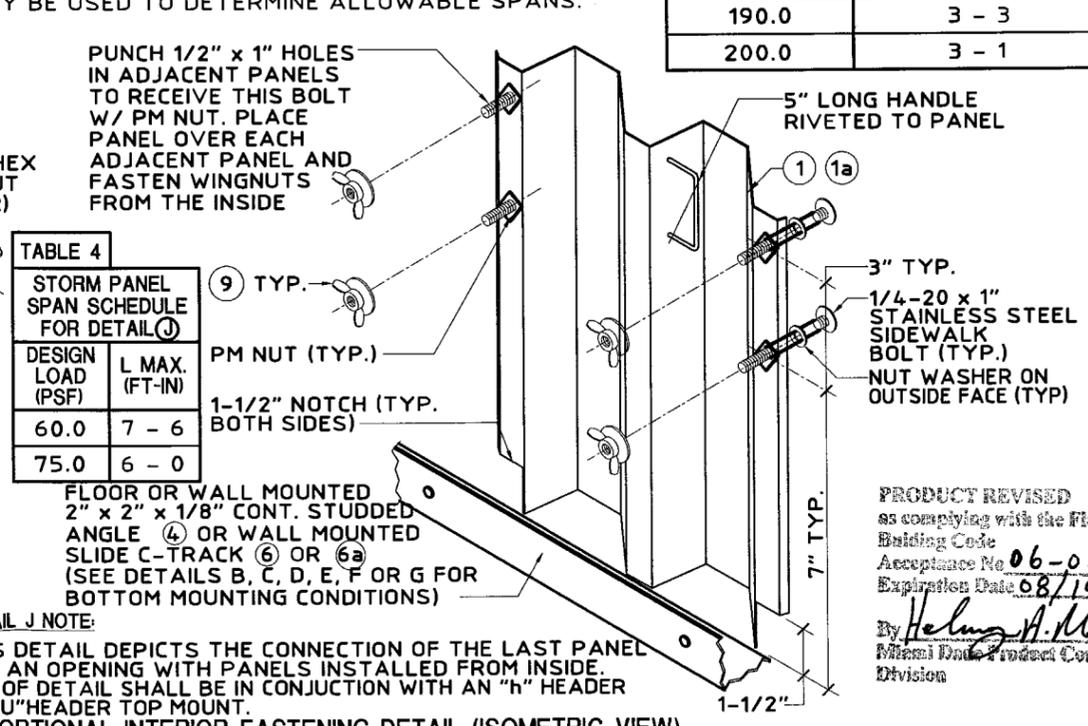
NEGATIVE DESIGN LOAD W (PSF)	FOR ALL MOUNTING CONDITIONS EXCEPT F-TRACK SEE DETAIL (H)
	L MAX. (FT-IN)
30.0	10 - 6
35.0	10 - 6
41.6	10 - 1
45.0	9 - 10
50.0	9 - 4
55.0	8 - 11
60.0	8 - 6
62.0	8 - 5
65.0	8 - 2
70.0	7 - 11
72.0	7 - 9
75.0	7 - 8
80.0	7 - 5
90.0	7 - 0
100.0	6 - 3
110.0	5 - 8
120.0	5 - 3
130.0	4 - 10
140.0	4 - 6
150.0	4 - 2
160.0	3 - 11
170.0	3 - 8
180.0	3 - 6
190.0	3 - 3
200.0	3 - 1



**H** **WALL MOUNT F-TRACK SECTION**  
 SCALE: 3" = 1'-0"



**I** **3/4\"/>**



**J** **OPTIONAL INTERIOR FASTENING DETAIL (ISOMETRIC VIEW)**  
 N.T.S.

DESIGN LOAD (PSF)	L MAX. (FT-IN)
60.0	7 - 6
75.0	6 - 0

**DETAIL J NOTE:**  
 THIS DETAIL DEPICTS THE CONNECTION OF THE LAST PANEL FOR AN OPENING WITH PANELS INSTALLED FROM INSIDE. USE OF DETAIL SHALL BE IN CONJUNCTION WITH AN "H" HEADER OR "U" HEADER TOP MOUNT.  
 FLOOR OR WALL MOUNTED 2" x 2" x 1/8" CONT. STUDDED ANGLE (4) OR WALL MOUNTED SLIDE C-TRACK (6) OR (6a) (SEE DETAILS B, C, D, E, F OR G FOR BOTTOM MOUNTING CONDITIONS)

**Thornton-Tomasetti Group**  
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 Website: www.TheTTGroup.com  
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**0.050\"/>**

**J.W. Knezevich**  
 Professional Engineer  
 FL License No.: PE 0041961

APR 04 2006

no	date	description
0	04/04/2006	JKW

date 04/04/2006  
 scale AS NOTED  
 design by JWK  
 checked by JWK

drawing no. **06-342**  
 sheet 3 of 5

### ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE															MIN. 3" EDGE DISTANCE														
			SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)					SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)				
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)				
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
CONCRETE		35.3	16	16	16	15	16	9	16	16	8	16	6.25	16	16	7	16	16	16	16	16	16	10	16	16	16	16	16	8			
		47.2	16	16	16	11	14	5	14	14	6.25	12	3	11	12	5	16	16	16	16	13	16	5	16	16	8	13	4	12	13	6.25	
		62.2	16	8	16	8	11	3	7	11	4	9	5	9	4	16	9	16	16	10	12	3	8	12	6	10	3	5	10	5		
		72.0	16	6.25	16	7	9	5	9	4	9	5	9	4	16	7	16	16	9	10	3	5	10	5	10	3	5	10	5			
		122.0	9	5	9	4	9	5	9	4	9	5	9	4	11	3	6	11	5	10	3	5	10	5	10	3	5	10	5			
		35.3	16	16	16	16	16	13	16	16	12	16	8	16	16	10	16	16	16	16	16	13	16	16	14	16	9	16	16	11		
		47.2	16	16	16	16	16	7	16	16	9	16	5	15	16	7	16	16	16	16	16	7	16	16	10	16	5	16	16	8		
		62.2	16	12	16	16	12	16	4	11	16	7	13	4	7	13	6	16	12	16	16	14	16	5	11	16	8	14	4	7	13	6.25
		72.0	16	9	16	16	10	13	4	7	13	6	13	4	7	13	6	16	9	16	16	12	14	4	7	14	7	14	4	7	13	6.25
		122.0	14	4	7	14	6.25	13	4	7	13	6	13	4	7	13	6	14	4	8	14	7	14	4	7	13	6.25	14	4	7	13	6.25
		35.3	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	10	12.5	10	12.5	12.5	8	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5		
		47.2	12.5	12.5	12.5	12.5	12.5	8	12.5	12.5	7	12.5	6.25	12.5	12.5	6	12.5	12.5	12.5	12.5	12.5	12.5	11	12.5	12.5	12	12.5	8	12.5	12.5	9	
		62.2	12.5	12.5	12.5	12.5	9	12.5	5	12.5	12.5	5	12.5	4	8	12.5	4	12.5	12.5	12.5	12.5	12.5	12.5	7	12.5	12.5	9	12.5	5	10	12.5	7
		72.0	12.5	11	12.5	12.5	8	12.5	4	8	12.5	4	12.5	4	8	12.5	4	12.5	12.5	12.5	12.5	12.5	12.5	5	10	12.5	7	12.5	5	10	12.5	7
		122.0	12.5	4	9	12.5	5	12.5	4	8	12.5	4	12.5	4	8	12.5	4	12.5	6	11	12.5	8	12.5	5	10	12.5	7	12.5	5	10	12.5	7
		35.3	16	16	16	16	12	16	7	16	16	7	13	5	13	13	6	16	16	16	16	15	16	8	16	16	9	14	5	14	14	7
		47.2	16	14	16	16	9	12	4	12	12	5	9	3	9	9	4	16	16	16	16	11	13	4	13	13	6.25	11	3	10	11	5
		62.2	15	7	15	15	7	9	6.25	9	4	7	4	7	3	16	8	16	16	8	10	3	7	10	5	8	4	8	4	8	4	
		72.0	13	5	13	13	6.25	7	4	7	3	7	4	7	3	15	6	15	15	7	8	4	8	4	8	4	8	4	8	4		
		122.0	8	4	8	3	7	4	7	3	7	4	7	3	9	5	9	4	8	4	8	4	8	4	8	4	8	4	8	4		
	35.3	16	16	16	16	16	11	16	16	9	16	7	16	16	7	16	16	16	16	16	12	16	16	11	16	8	16	16	9			
	47.2	16	16	16	16	12	16	6.25	16	16	7	14	4	13	14	5	16	16	16	16	15	16	7	16	16	8	16	5	15	16	7	
	62.2	16	10	16	16	9	13	4	9	13	5	11	3	6	11	4	16	11	16	16	11	15	4	10	15	6.25	13	3	6.25	12	5	
	72.0	16	8	16	16	8	11	3	6	11	4	11	3	6	11	4	16	9	16	16	10	13	3	7	13	5	13	3	6.25	12	5	
	122.0	12	3	6.25	12	4	11	3	6	11	4	11	3	6	11	4	13	3	7	13	5	13	3	6.25	12	5	13	3	6.25	12	5	
	35.3	16	16	16	16	16	11	16	16	10	16	7	16	16	8	16	16	16	16	16	16	12	16	16	11	16	8	16	16	9		
	47.2	16	16	16	16	13	16	6	16	16	7	15	4	14	15	6	16	16	16	16	14	16	7	16	16	8	16	5	14	16	6	
	62.2	16	11	16	16	10	14	4	10	14	5	12	3	6	11	4	16	11	16	16	10	15	4	10	15	6	12	3	6	12	5	
	72.0	16	8	16	16	8	12	3	6	12	5	12	3	6	11	4	16	8	16	16	9	13	3	6	13	5	12	3	6	12	5	
	122.0	12	3	6	12	5	12	3	6	11	4	12	3	6	11	4	13	3	7	13	5	12	3	6	12	5	12	3	6	12	5	

SEE PAGE 5 FOR COMPLETE ANCHOR NOTES.

### ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 3/4" EDGE DISTANCE																													
			SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)																			
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)																			
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5															
WOOD		35.3	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	9		
		47.2	16	16	16	16	14	16	13	16	16	8	16	10	16	16	6.25	16	7	13	16	5	16	7	13	16	5					
		62.2	16	16	16	16	11	16	9	16	16	6.25	16	7	13	16	5	16	7	13	16	5										
		72.0	16	16	16	16	9	16	7	13	16	5	16	7	13	16	5	16	7	13	16	5										
		122.0	16	7	14	16	5	16	7	13	16	5	16	7	13	16	5	16	7	13	16	5										
		35.3	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	11	
		47.2	16	16	16	16	16	16	13	16	16	10	16	10	16	16	8	16	10	16	16	8										
		62.2	16	16	16	16	13	16	9	16	16	8	16	7	13	16	6.25	16	7	13	16	6.25										
		72.0	16	16	16	16	11	16	7	13	16	6.25	16	7	13	16	6.25	16	7	13	16	6.25										
		122.0	16	7	14	16	7	16	7	13	16	6.25	16	7	13	16	6.25	16	7	13	16	6.25										
		35.3	12.5	12.5	12.5	12.5	12.5	12.5	8	12.5	12.5	8	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	6.25	
		47.2	12.5	12.5	12.5	12.5	10	12.5	8	12.5	12.5	7	12.5	6.25	12.5	12.5	6	12.5	12.5	12.5	12.5	12.5	12.5	11	12.5	12.5	12	12.5	8	12.5	12.5	9
		62.2	12.5	12.5	12.5	12.5	9	12.5	5	12.5	12.5	5	12.5	4	8	12.5	4	12.5	12.5	12.5	12.5	12.5	12.5	7	12.5	12.5	9	12.5	5	10	12.5	7
		72.0	12.5	11	12.5	12.5	8	12.5	4	8	12.5	4	12.5	4	8	12.5	4	12.5	12.5	12.5	12.5	12.5	12.5	5	10	12.5	7	12.5	5	10	12.5	7
		122.0	12.5	4	9	12.5	5	12.5	4	8	12.5	4	12.5	4	8	12.5	4	12.5	6	11	12.5	8	12.5	5	10	12.5	7	12.5	5	10	12.5	7
	35.3	12.5	12.5	12.5	12.5	12.5	12.5	8	12.5	12.5	8	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	6.25		
	47.2	12.5	12.5	12.5	12.5	10	12.5	8	12.5	12.5	7	12.5	6.25	12.5	12.5	6	12.5	12.5	12.5	12.5	12.5	12.5	11	12.5	12.5	12	12.5	8	12.5	12.5	9	
	62.2	12.5	12.5	12.5	12.5	9	12.5	5	12.5	12.5	5	12.5	4	8	12.5	4	12.5	12.5	12.5	12.5	12.5	12.5	7	12.5	12.5	9	12.5	5	10	12.5	7	
	72.0	12.5	11	12.5	12.5	8	12.5	4	8	12.5	4	12.5	4	8	12.5	4	12.5	12.5	12.5	12.5	12.5	12.5	5	10	12.5	7	12.5	5	10	12.5	7	
	122.0	12.5	4	9	12.5	5	12.5	4	8	12.5	4	12.5	4	8	12.5	4	12.5	6	11	12.5	8	12.5	5	10	12.5	7	12.5	5	10	12.5	7	

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No. 07-0322.03  
 Expiration Date 08/19/2008  
 By Helmut A. M...  
 Miami Dade Product Control Division

# ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE															MIN. 3" EDGE DISTANCE														
			SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)					SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)				
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)				
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
HOLLOW CONCRETE BLOCK		35.3	16	16	16	16	8	10	4	10	10	5	8	3	8	8	4	16	16	16	16	10	12	5	12	12	6	9	3	9	9	5
		47.2	13	9	13	13	6.25	8	8	8	3	6.25	5	6.25	3	15	10	15	15	7	9	3	9	9	4	7	6.25	7	3			
		62.2	10	4	10	10	5	6	4	6	5	5	5	5	11	5	11	11	6	6.25	4	6.25	3	5	3	5	3	5				
		72.0	9	3	9	9	4	5	5	5	5	5	5	5	10	4	10	10	5	5	3	5	3	5	3	5	3	5				
		122.0	5	5	5	5	5	5	5	5	5	5	5	5	6	3	6	3	5	3	5	3	5	3	5	3	5	3	5			
		35.3	16	16	16	16	12	13	6.25	13	13	7	11	4	11	11	5	16	16	16	16	15	16	7	16	16	8	14	5	14	14	7
		47.2	16	12	16	16	9	10	3	10	10	5	8	7	8	4	16	15	16	16	11	12	4	12	12	6.25	10	3	9	10	5	
		62.2	13	6	13	13	7	7	5	7	4	6.25	3	6.25	3	16	7	16	16	8	9	3	6.25	9	5	8	4	8	4	8	4	
		72.0	11	4	11	11	6	6.25	3	6.25	3	6.25	3	6.25	3	14	5	14	14	7	8	4	8	4	8	4	8	4	8	4	8	4
		122.0	6.25	3	6.25	3	6.25	3	6.25	3	6.25	3	6.25	3	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4
		35.3	16	16	16	16	11	15	7	15	15	6.25	13	5	13	13	5	16	16	16	16	13	16	7	16	16	7	13	5	13	13	6.25
		47.2	16	14	16	16	8	11	4	11	11	4	9	3	8	9	4	16	14	16	16	9	12	4	12	12	5	10	3	9	10	4
		62.2	15	7	15	15	6.25	8	6.25	8	3	7	4	7	3	16	7	16	16	7	9	6.25	9	4	7	4	7	3	4	7	3	
		72.0	13	5	13	13	5	7	4	7	3	7	4	7	3	13	5	13	13	6.25	7	4	7	3	7	4	7	3	4	7	3	
		122.0	7	4	7	3	7	4	7	3	7	4	7	3	8	4	8	3	7	4	7	3	7	4	7	3	7	4	7	3		
		35.3	12.5	12.5	12.5	12.5	9	12.5	6.25	12.5	12.5	5	11	4	11	11	4	12.5	12.5	12.5	12.5	12.5	12.5	7	12.5	12.5	8	12.5	5	12.5	12.5	7
		47.2	12.5	12	12.5	12.5	7	10	3	10	10	4	8	7	8	3	12.5	12.5	12.5	12.5	11	12.5	4	12.5	12.5	6.25	10	3	9	10	5	
		62.2	12.5	6	12.5	12.5	5	7	5	7	3	6.25	3	6.25	3	12.5	7	12.5	12.5	8	9	3	6.25	9	4	8	4	8	4	8	4	
		72.0	11	4	11	11	4	6.25	3	6.25	3	6.25	3	6.25	3	12.5	5	12.5	12.5	7	8	4	8	4	8	4	8	4	8	4	8	4
		122.0	6.25	3	6.25	3	6.25	3	6.25	3	6.25	3	6.25	3	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4
	35.3	16	16	16	16	9	11	5	11	11	5	9	3	9	9	4	16	16	16	16	10	11	5	11	11	5	9	3	9	9	4	
	47.2	14	9	14	14	7	8	3	8	8	4	6.25	6.25	6.25	3	14	9	14	14	7	8	3	8	8	4	6.25	6.25	6.25	3			
	62.2	11	4	11	11	5	6.25	4	6.25	3	5	5	5	5	11	4	11	11	5	6.25	4	6.25	3	5	5	5	5	5	5	5		
	72.0	9	3	9	9	4	5	5	5	5	5	5	5	5	9	3	9	9	5	5	5	5	5	5	5	5	5	5	5	5		
	122.0	5	3	5	5	5	5	5	5	5	5	5	5	5	5	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	35.3	16	16	16	16	16	16	11	16	16	9	16	7	16	16	7	16	16	16	16	16	16	12	16	16	11	16	8	16	16	9	
	47.2	16	16	16	16	12	16	6.25	16	16	7	14	4	13	14	5	16	16	16	16	15	16	7	16	16	8	16	5	15	16	7	
	62.2	16	10	16	16	9	13	4	9	13	5	11	3	6	11	4	16	11	16	16	11	15	4	10	15	6.25	13	3	6.25	12	5	
	72.0	16	8	16	16	8	11	3	6.25	11	4	11	3	6	11	4	16	9	16	16	10	13	3	7	13	5	13	3	6.25	12	5	
	122.0	12	3	6.25	12	4	11	3	6	11	4	11	3	6	11	4	13	3	7	13	5	13	3	6.25	12	5	13	3	6.25	12	5	
	35.3	16	16	16	16	9	10	4	10	10	5	8	3	8	8	4	16	16	16	16	11	11	5	11	11	6.25	9	3	9	9	5	
	47.2	13	9	13	13	6.25	7	7	7	3	6.25	5	6.25	3	15	10	15	15	8	8	3	8	8	4	7	6.25	7	3				
	62.2	10	4	10	10	5	5	4	5	3	5	4	4	4	11	5	11	11	6	6.25	4	6.25	3	5	5	5	3					
	72.0	8	3	8	8	4	5	5	5	5	5	5	5	5	9	3	9	9	5	5	5	5	5	5	5	5	5	5	5	5	5	
	122.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

**ANCHOR NOTES:**

- SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1.
- ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON STORM PANEL AND SELECT SPAN GREATER THAN OR EQUAL TO STORM PANEL SPAN.
- EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE AND APPROPRIATE CONNECTION TYPE. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
- WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
- MACHINE SCREWS SHALL HAVE A MINIMUM OF 1/2" ENGAGEMENT OF THREADS TO EMBEDDED CALK-IN AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT). FOR DIRECT MOUNT USE ONLY SIDEWALK BOLTS OR TRUSS HEAD BOLTS. LOCATE FASTENER IN NARROW PORTION OF KEYHOLE SLOT.
- DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
- DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT. REMOVABLE ANCHORS ARE REQUIRED FOR DIRECT MOUNT @ 6-1/4" OR 12-1/2" O.C. MAX. SPACING ONLY. SPACINGS SHALL NOT EXCEED VALUE SPECIFIED IN ANCHOR SCHEDULE.

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 Professional Engineer  
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no.	date	description
0	04/04/2006	JWK

PREVIOUSLY DRAWING NO. 02-373

date: 04/04/2006  
 scale: AS NOTED  
 design by: JWK  
 drawing no.: 06-342  
 sheet 5 of 5

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 06-0424.01  
 Expiration Date 08/19/2007  
 By: *Helmut A. Mohr*  
 Miami Dade Product Control Division

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No. 07-0322.03  
 Expiration Date 08/19/2008  
 By: *Helmut A. Mohr*  
 Miami Dade Product Control Division