



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Guardian Hurricane Protection Products, Inc.
8771 N.W. 102nd Street
Medley, Florida 33178

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: "HT-100" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 08-155, titled "HT-100 Accordion Shutter", sheets 1 through 7 of 7, prepared by Knezevich Associates, dated September 14, 2005, last revision #0 dated September 14, 2005, signed and sealed by V. J. Knezevich, P.E., 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 Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit 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 # **03-0717.01** and consists of this page 1, evidence submitted pages E-1, E-2, and 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
 07/03/2008

NOA No. 08-0425.02
Expiration Date: 08/24/2013
Approval Date: 07/03/2008

Guardian Hurricane Protection Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0705.05

A. DRAWINGS

1. *Drawing No. 00-871 prepared by Knezevich & Associates, Inc., titled "HT100 Accordion Shutter", dated July 23, 1996, revision #6 dated June 10, 1999, sheets 1 through 6 of 6, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS

1. *See Association's generic approval under 99-0036.*

C. CALCULATIONS

1. *See Association's generic approval under 99-0036.*

D. MATERIAL CERTIFICATIONS

1. *See Association's generic approval under 99-0036.*

E. STATEMENTS

1. *Release letter issued by the Hi-Tech Shutter Group, Inc., dated June 13, 2000, certifying this product to meet the criteria of product tested and approved, and allowing Guardian Hurricane Protection Products, Inc. to use the test results approved under Miami-Dade County Approval No. 99-0036, signed by Mr. Frank Cornelius.*
2. *Acknowledgment letter by Guardian Hurricane Protection Products, Inc dated June 27, 2000, signed by Mr. Pablo Ramos.*
3. *Letter by Knezevich & Associates, Inc., dated June 13, 2000, certifying that the drawing (No. 00-871) prepared for Guardian Hurricane Protection Products, Inc., signed and sealed by Mr. V. J. Knezevich, P.E., is engineering wise identical to Hi-Tech's generic drawing (No. 96-168).*
4. *Acceptance Letter issued to Mr. Pablo Ramos on August 2, 2000, and returned signed by Mr. Pablo Ramos on August 7, 2000, indicating to please issue the proposed Notice of Acceptance as submitted and reviewed.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0605.07

A. DRAWINGS

1. *Drawing No. 00-871, titled " HT 100 Accordion Shutter ", sheets 1 through 6 of 6, prepared by Knezevich & Associates, Inc., dated July 23, 1996, last revision #8 dated May 10, 2002, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS

1. *None.*



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

Product Control Examiner

NOA No. 08-0425.02

Expiration Date: 08/24/2013

Approval Date: 07/03/2008

Guardian Hurricane Protection Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

E. STATEMENTS

1. *Statement letter of conformance, by Knezevich & Associates, Inc., dated May 14, 2002, signed and sealed by V. J. Knezevich, P.E.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-0717.01

A. DRAWINGS

1. *Drawing No. 03-814, titled " HT 100 Accordion Shutter ", sheets 1 through 7 of 7, prepared by Knezevich & Associates, Inc., dated October 17, 2002, last revision #1 dated December 4, 2002, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS

1. *See Association's generic approval under 02-0799.*

C. CALCULATIONS

1. *See Association's generic approval under 02-0799.*

D. MATERIAL CERTIFICATIONS

1. *See Association's generic approval under 02-0799.*

E. STATEMENTS

1. *Letter by Knezevich & Associates, Inc., dated August 22, 2003, certifying that the drawing (No. 03-814) prepared for Guardian Hurricane Protection Products, Inc., signed and sealed by Mr. V. J. Knezevich, P.E., is engineering wise identical to Hi-Tech's generic drawing (No. 02-458).*

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 08-155, titled "HT-100 Accordion Shutter", sheets 1 through 7 of 7, prepared by Knezevich Associates, dated September 14, 2005, last revision #0 dated September 14, 2005, signed and sealed by V. J. Knezevich, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0425.02
Expiration Date: 08/24/2013
Approval Date: 07/03/2008

Guardian Hurricane Protection Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *See Association's generic approval under 05-0321.*

C. CALCULATIONS

1. *See Association's generic approval under 05-0321.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

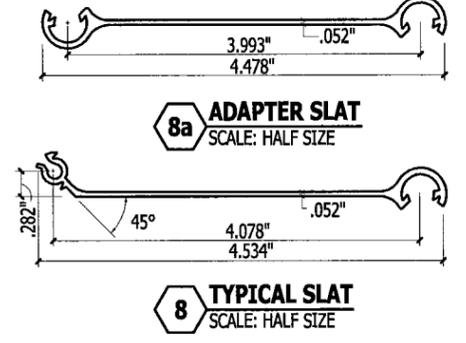
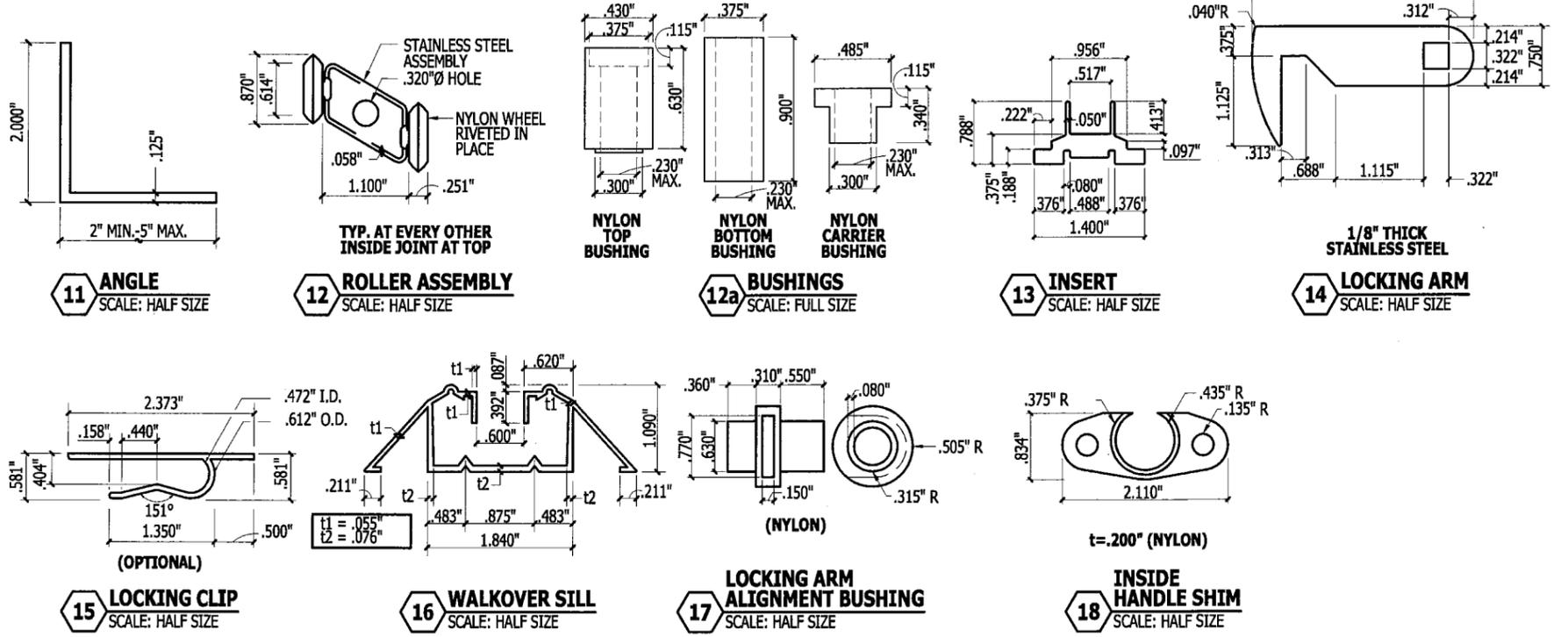
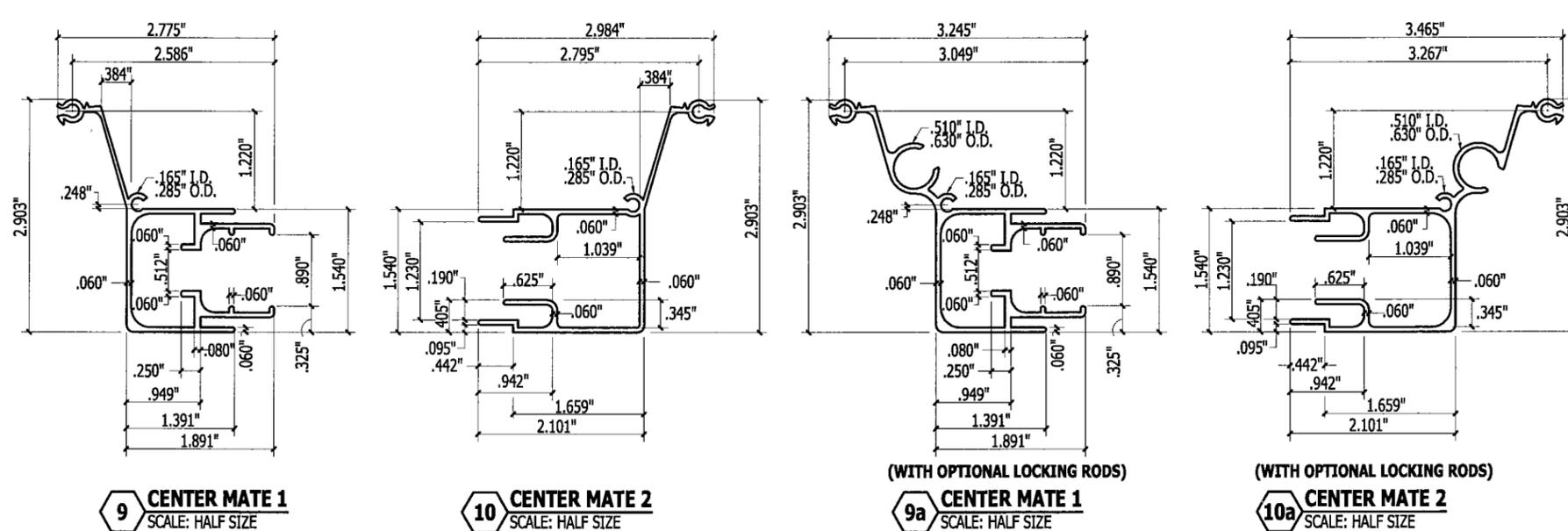
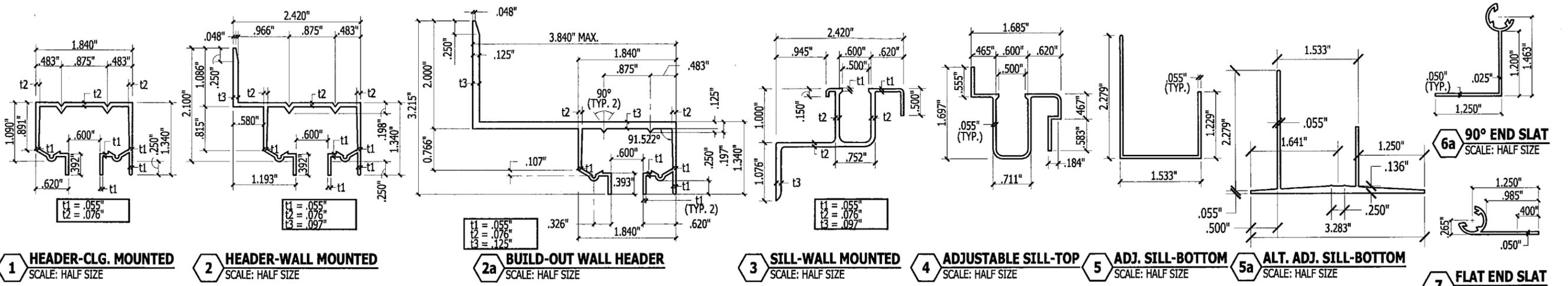
1. *See Association's generic approval under 05-0321.*

F. STATEMENTS

1. *Release letter issued by Hi-Tech Shutter Group, Inc., dated April 11, 2008, certifying this product to meet the criteria of product tested and approved, and allowing Guardian Hurricane Protection Products, Inc. to use the test results approved under Miami-Dade County Approval No. 05-0321, signed by Frank S. Cornelius.*
2. *Acknowledgment letter by Guardian Hurricane Protection Products, Inc., dated April 11, 2008, signed by Pablo Ramos.*
3. *Letter issued by Knezevich Associates, dated April 10, 2008, certifying that the drawing (No. 08-155) prepared for Guardian Hurricane Protection Products, Inc., signed and sealed by V. John Knezevich, P.E., is engineering wise identical to Hi-Tech Shutter Group, Inc. generic drawing (No. 05-509), revision 0.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0425.02
Expiration Date: 08/24/2013
Approval Date: 07/03/2008



- GENERAL NOTES:**
- THESE APPROVAL DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISIONS SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE FLORIDA BUILDING CODE, 2004.
 - TO VERIFY THAT THE ANCHORS AS TESTED, ARE NOT OVERSTRESSED IN THESE APPROVAL DOCUMENTS, NO INCREASE IN ALLOWABLE STRESS WAS USED IN THE FASTENER ANALYSIS.
 - 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 THE FLORIDA BUILDING CODE 2004, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ SHALL BE USED.
 - THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
 - USE OF THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
 - 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.
 - ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
 - WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
 - 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.
 - REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION.
 - WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS, ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
 - EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:

GUARDIAN HURRICANE PROTECTION PRODUCTS, INC.
MIAMI, FLORIDA
MIAMI-DADE COUNTY PRODUCT APPROVED
 - ALL SHUTTERS SHALL HAVE A LOCKING MECHANISM AT CENTER OR SIDE CLOSURE WITHIN 18" OF CENTER (VERT.). LOCKING MECHANISM SHALL BE LOCKED TO PROVIDE HURRICANE PROTECTION.
 - STORM SHUTTER EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
 - ALL SCREWS AND BOLTS TO BE 2024-T4 ALUMINUM ALLOY, STAINLESS STEEL, OR GALVANIZED STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N. POP RIVETS TO BE 3/16"Ø, 5052 ALUM. ALLOY, U.O.N.
 - TOP AND BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.
 - FLOOR TRACKS MAY BE REMOVABLE AT NON-STACKING LOCATIONS. USE REMOVABLE ANCHORS SUCH AS POWERS CALK-IN ANCHORS.
 - THIS SHUTTER SYSTEM IS PATENTED WITH THE U.S. PATENT AND TRADEMARK OFFICE, PATENT No. 5,755,270.

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 08-0425.02
Expiration Date 08/24/2013
By *Helmut A. Hahn*
Miami Dade Product Control Division

KNEZEVICH ASSOCIATES
Consulting Engineers
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website: www.knezevich.com • email: VJK@knezevich.com

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HT 100 LICENSED BY HI-TECH SHUTTER GROUP, INC.

HT 100 ACCORDION SHUTTER
Guardian Hurricane Protection Products, Inc.
7211 N.W. 79TH TERRACE
MIAMI, FLORIDA 33166
TEL: (305) 994-7839
FAX: (305) 994-3630

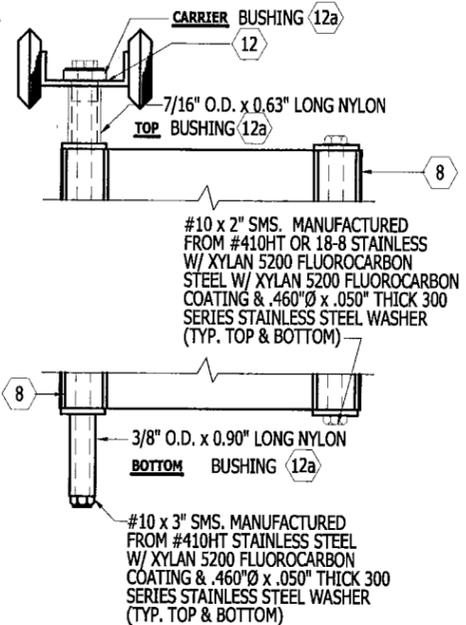
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HTSG I.D. # 200804020509

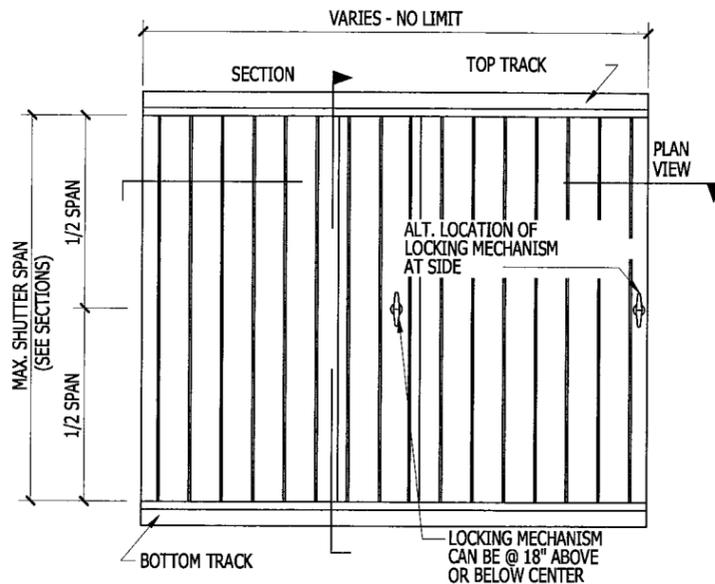
V.J. Knezevich
Professional Engineer
Fl. License No. FE 0010983

[Signature]
APR 10 2008

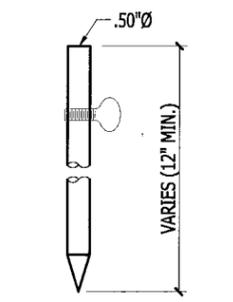
scale AS NOTED
drawn by ARV
date 09/14/2005
project no. **08-155**
sheet 1 of 7



SCREW BUSHING & ROLLER/BUSHING ASSEMBLY
SCALE: HALF SIZE

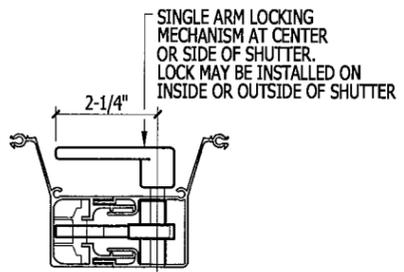


TYPICAL ELEVATION
N.T.S.

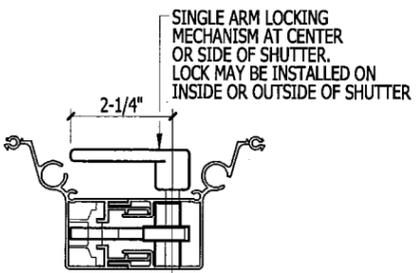


USED WITH PIECES 9a AND 10a

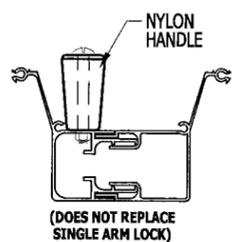
LOCKING PIN
SCALE: 1-1/2" = 1'-0"



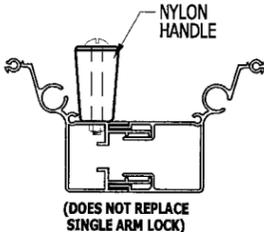
SINGLE ARM LOCK
N.T.S.



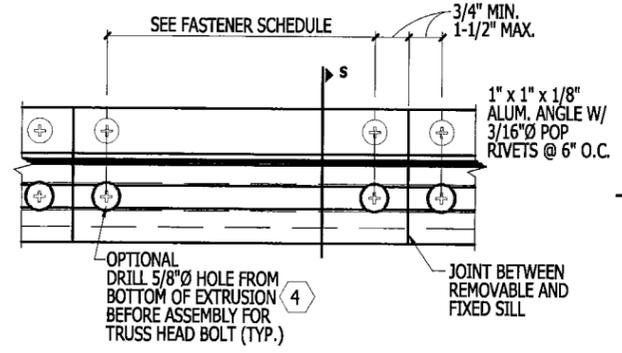
SINGLE ARM LOCK
N.T.S.



OPTIONAL CLOSER HANDLE
N.T.S.

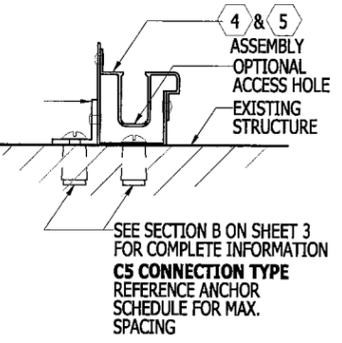


OPTIONAL CLOSER HANDLE
N.T.S.

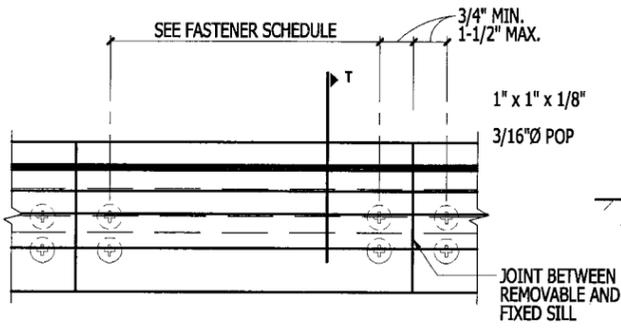


PLAN VIEW

REMOVABLE FLOOR TRACK DETAIL
SCALE: 3" = 1'-0"

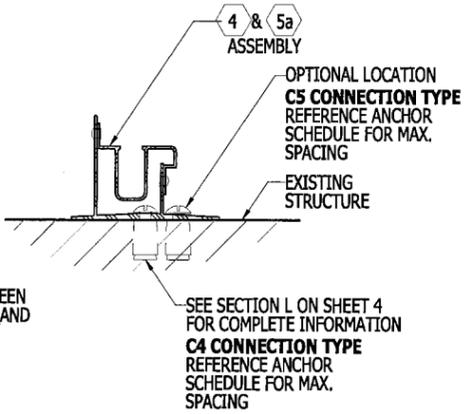


SECTION S



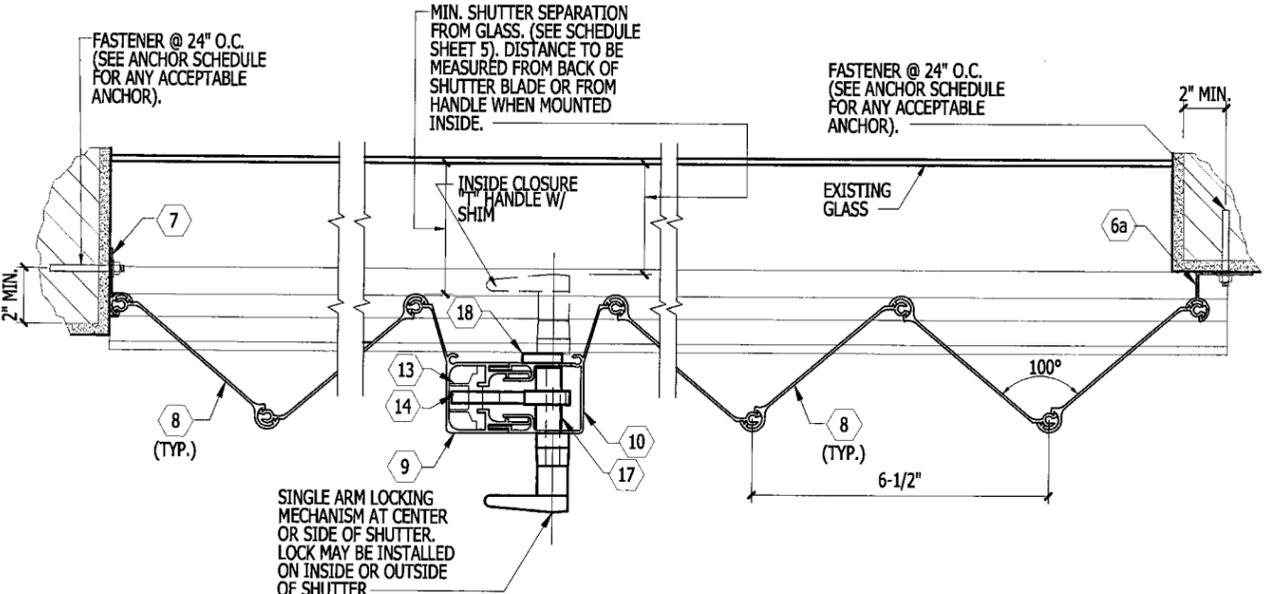
PLAN VIEW

OPTIONAL REMOVABLE FLOOR TRACK DETAIL
SCALE: 3" = 1'-0"

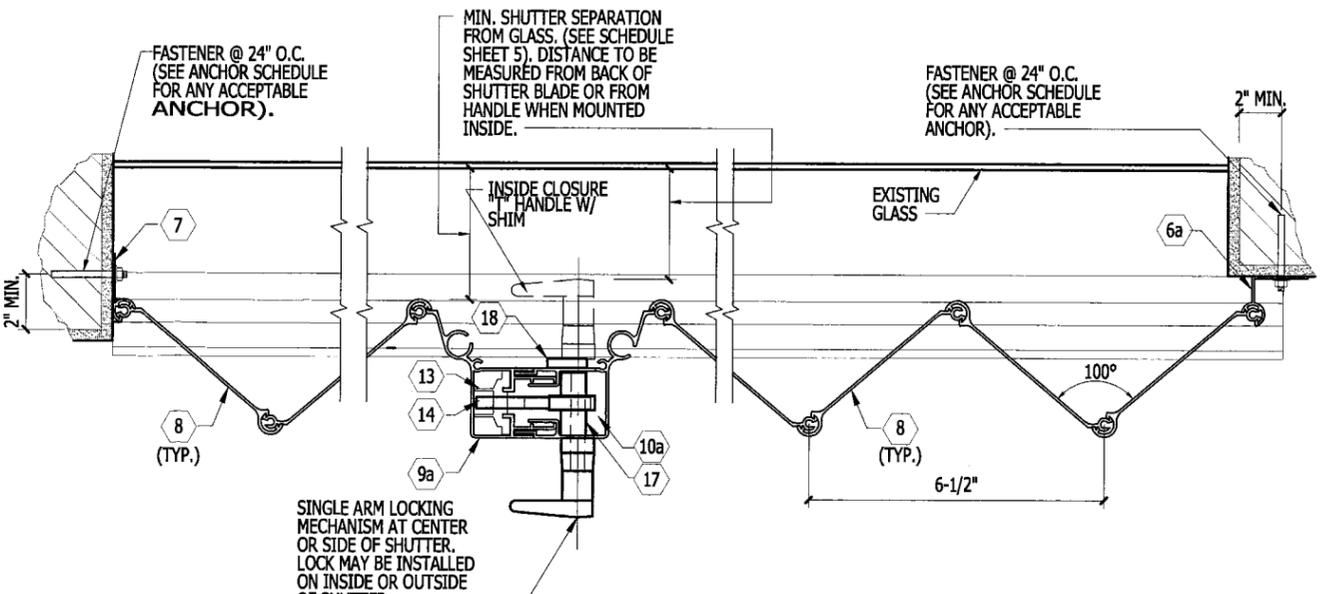


SECTION T

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0425.02
Expiration Date 08/24/2013
By *Helmut A. Maler*
Miami Dade Product Control Division



TYPICAL PLAN VIEW
SCALE: 3" = 1'-0"



OPTIONAL PLAN VIEW
SCALE: 3" = 1'-0"

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HT 100 ACCORDION SHUTTER
Guardian Hurricane Protection Products, Inc.
7211 N.W. 79TH TERRACE
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TEL: (305) 994-7839
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revisions	description	by	date
0	PREVIOUSLY DRAWING NO. 02-458	VJK	09/14/2005

HTSG I.D. # 2008040205509

V.J. Knezevich
Professional Engineer
FL License No. PE 0010983

APR 10 2008

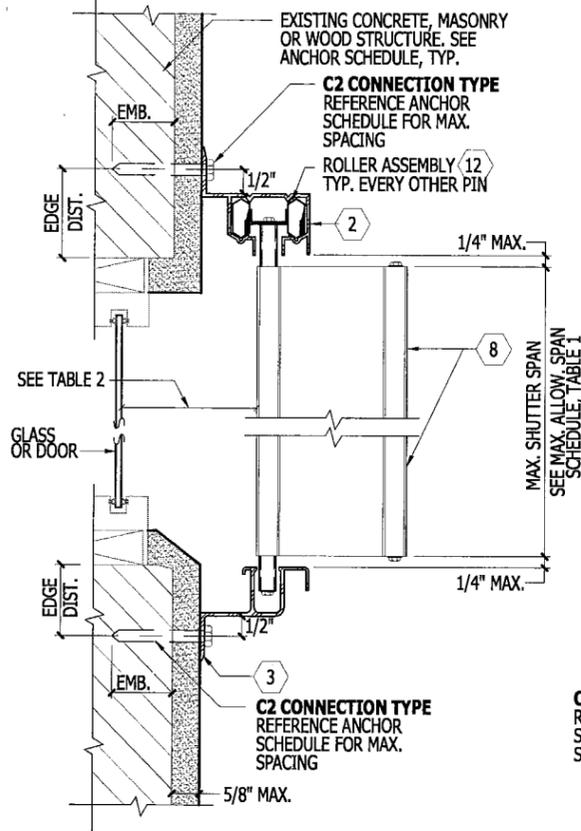
scale AS NOTED

drawn by ARV

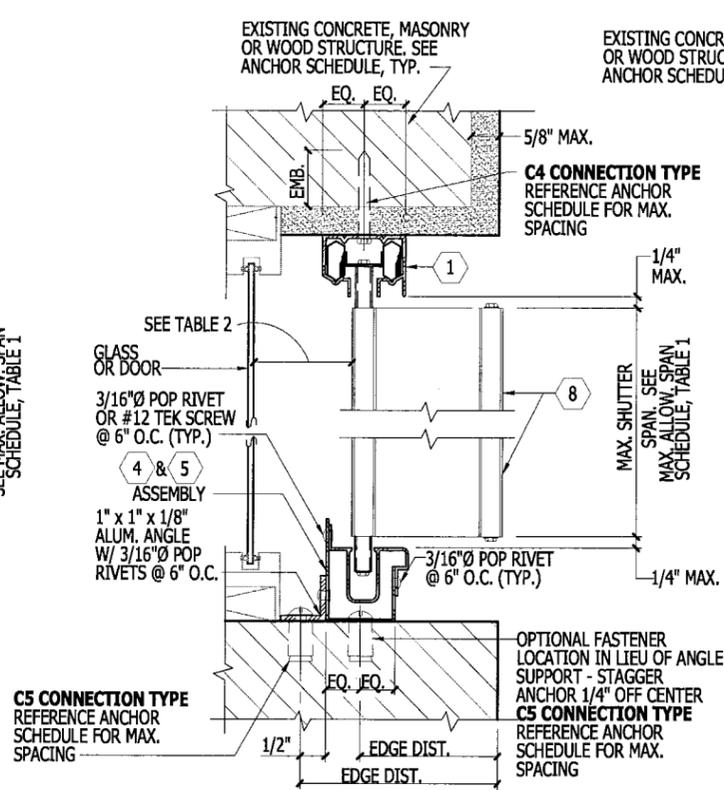
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project no. **08-155**

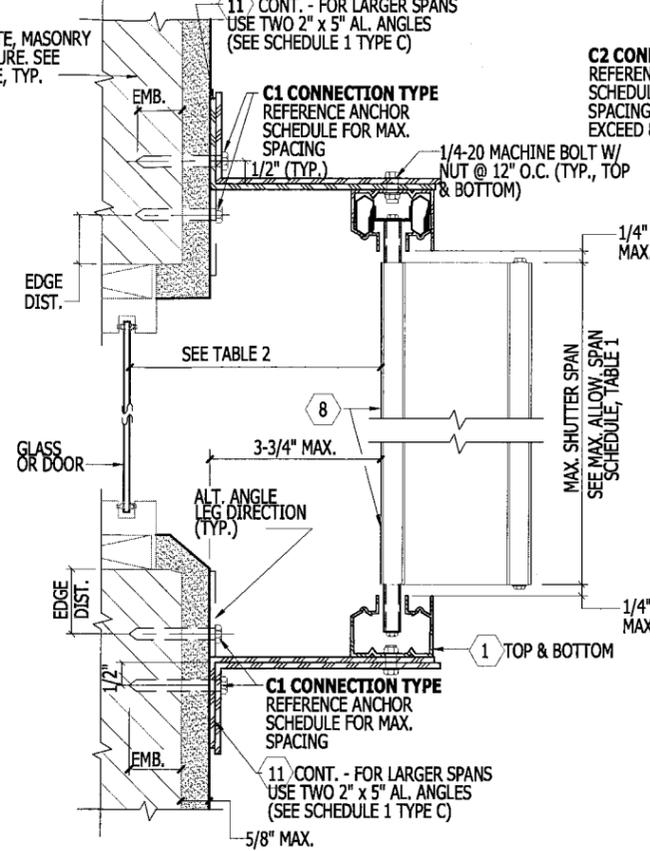
sheet 2 of 7



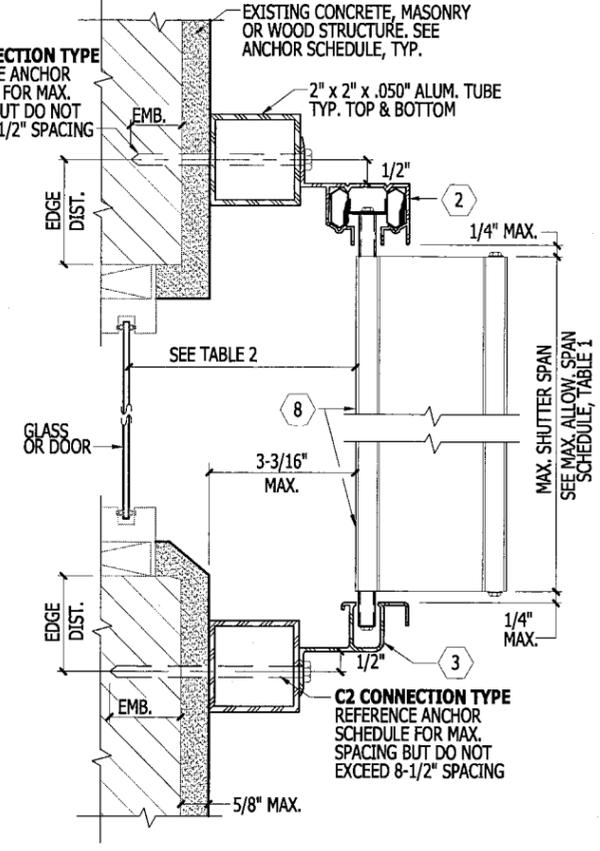
A WALL MOUNT SECTION
SCALE: 3" = 1'-0"



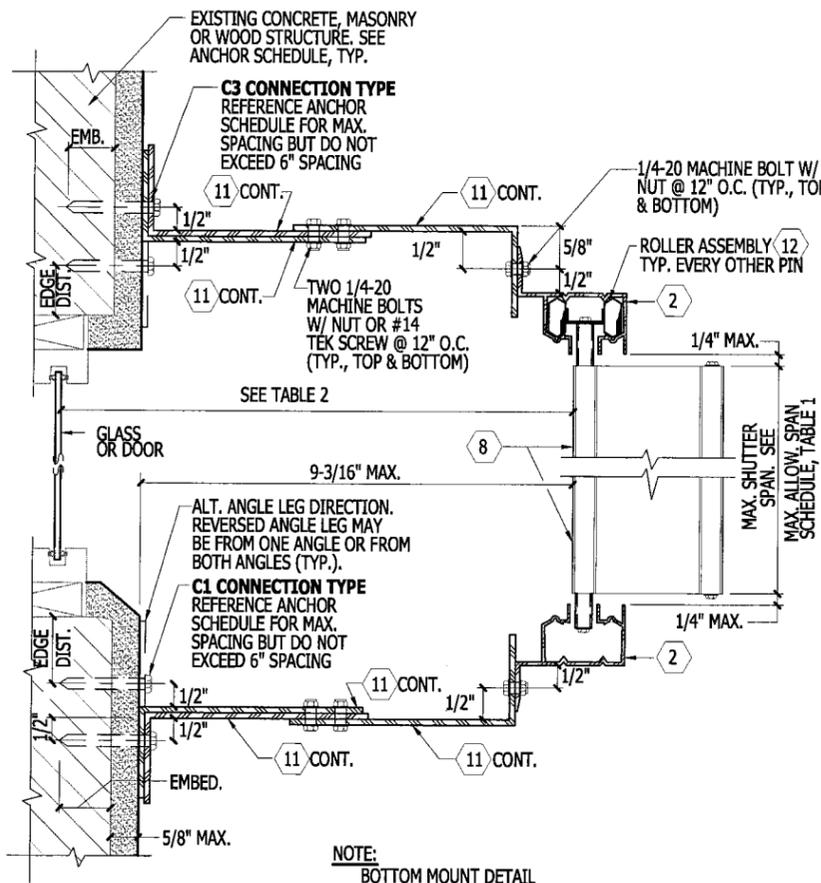
B CEILING / INSIDE MOUNT SECTION
SCALE: 3" = 1'-0"



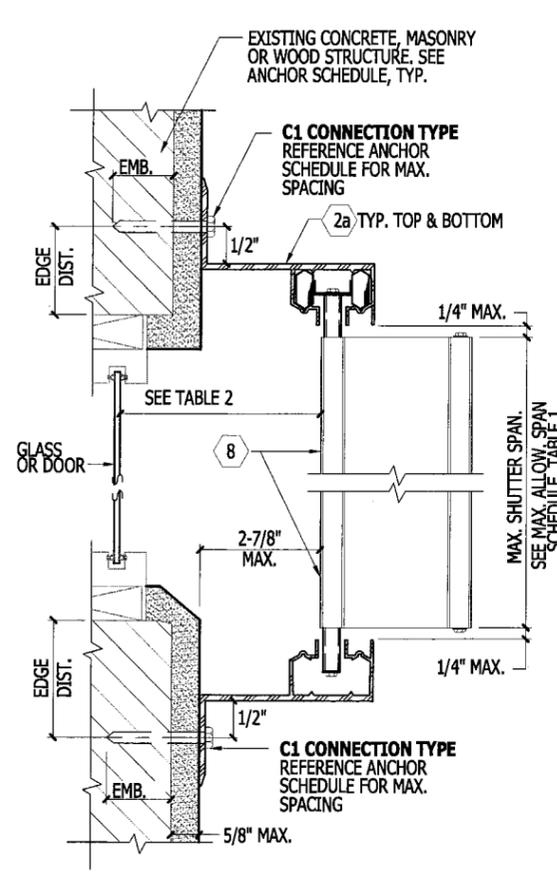
C BUILD-OUT MOUNT SECTION
SCALE: 3" = 1'-0"



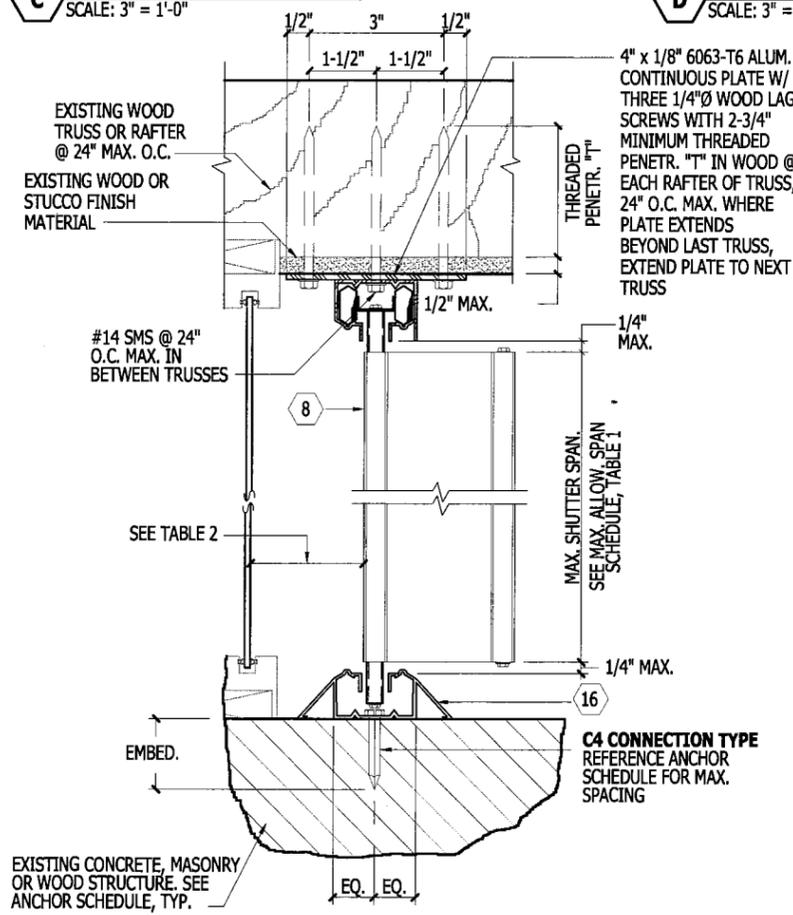
D BUILD-OUT MOUNT SECTION
SCALE: 3" = 1'-0"



E BUILD-OUT MOUNT SECTION
SCALE: 3" = 1'-0"



F BUILD-OUT MOUNT SECTION
SCALE: 3" = 1'-0"



G WOOD SOFFIT / FLOOR MOUNT SECTION
SCALE: 3" = 1'-0"

NOTE:
BOTTOM MOUNT DETAIL
MAY BE USED AT TOP.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0425.02
Expiration Date 08/24/2013
By *Herb A. Nelson*
Miami Dade Product Control
Division

KNEZEVICH ASSOCIATES
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website: www.knezevich.com • email: vjk@knezevich.com
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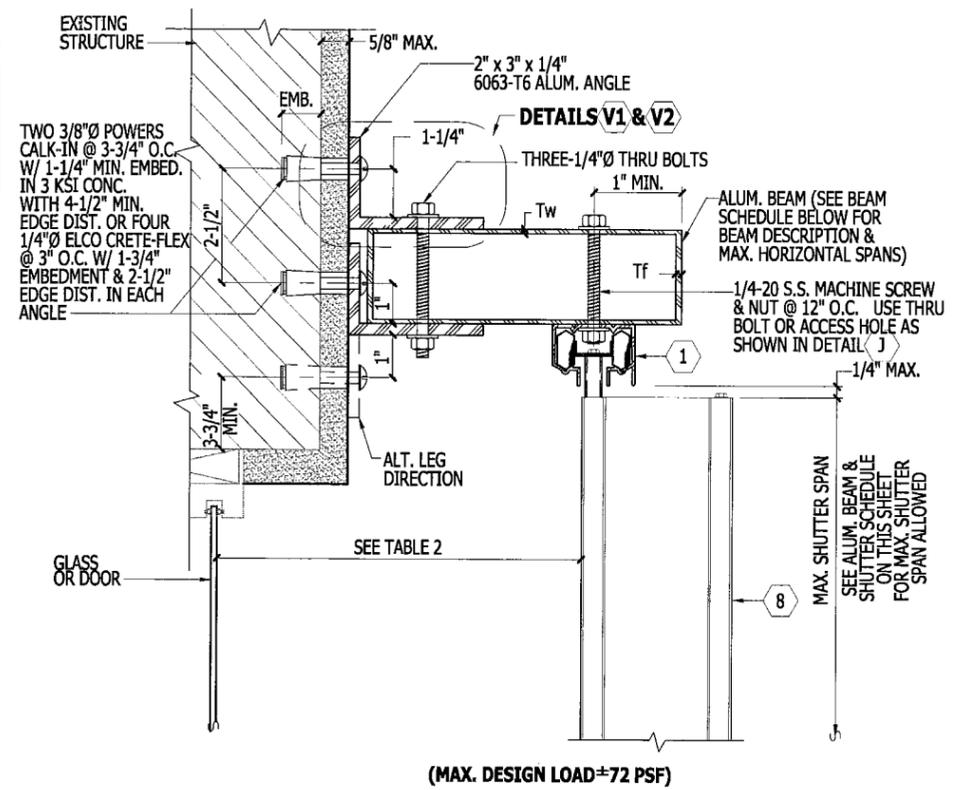
HT100 ACCORDION SHUTTER
Guardian Hurricane Protection Products, Inc.
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MIAMI, FLORIDA 33166
TEL: (305) 994-7839
FAX: (305) 994-3530

no.	date	by	description
0	09/14/2005	VJK	PREVIOUSLY DRAWING NO. 02-458

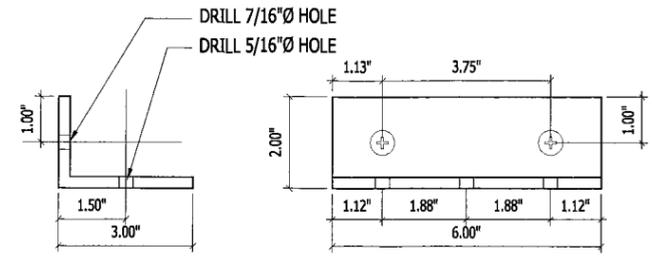
V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983

APR 10 2008

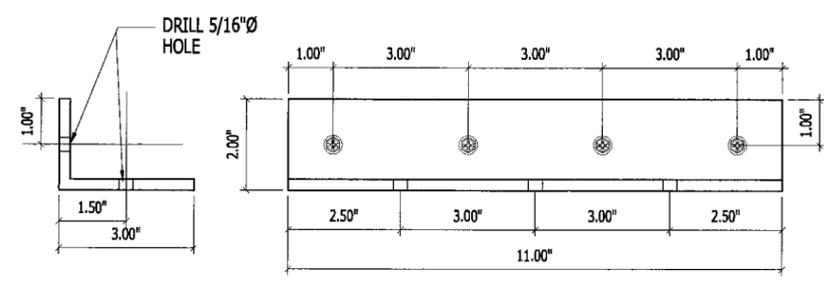
scale AS NOTED
drawn by ARV
date 09/14/2005
project no. **08-155**
sheet 3 of 7



H TOP SUPPORT BEAM DETAIL
SCALE: 3" = 1'-0"



V1 ANGLE DETAIL USING 3/8" Ø CALK-IN ANCHOR
SCALE: 3" = 1'-0"

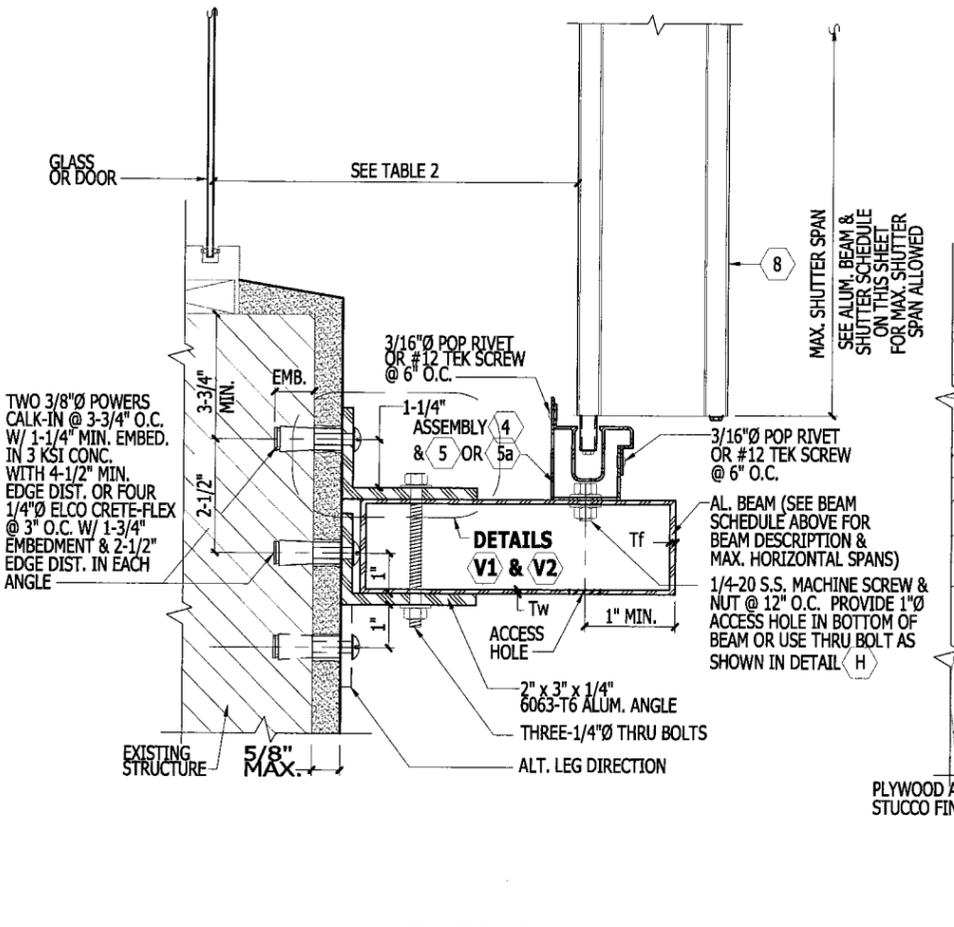


V2 ANGLE DETAIL USING 1/4" Ø CRETE-FLEX ANCHOR
SCALE: 3" = 1'-0"

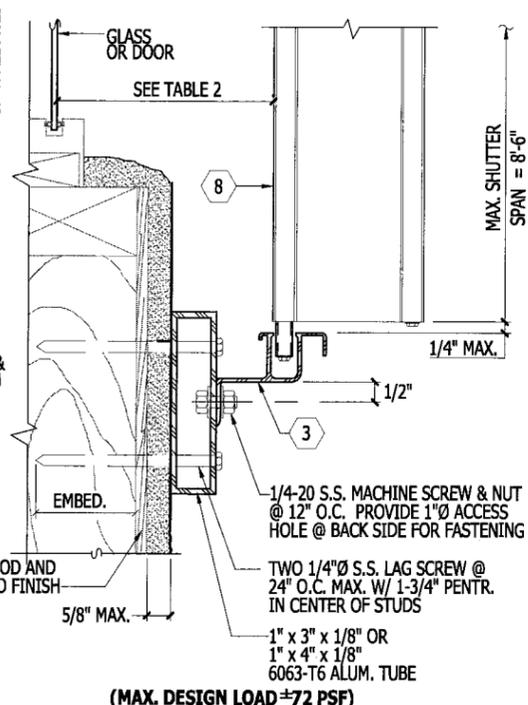
ALUM. BEAM & SHUTTER SCHEDULE		
DESCRIPTION	SHUTTER SPAN	BEAM SPAN
2" x 5" Tw = .125" Tf = .125"	5'-0"	9'-5"
	8'-0"	8'-1"
	10'-0"	7'-6"
2" x 8" Tw = .072" Tf = .224"	5'-0"	14'-0"
	8'-0"	11'-6"
	10'-0"	10'-4"
2" x 9" Tw = .072" Tf = .224"	5'-0"	15'-5"
	8'-0"	12'-5"
	10'-0"	11'-2"

NOTE:

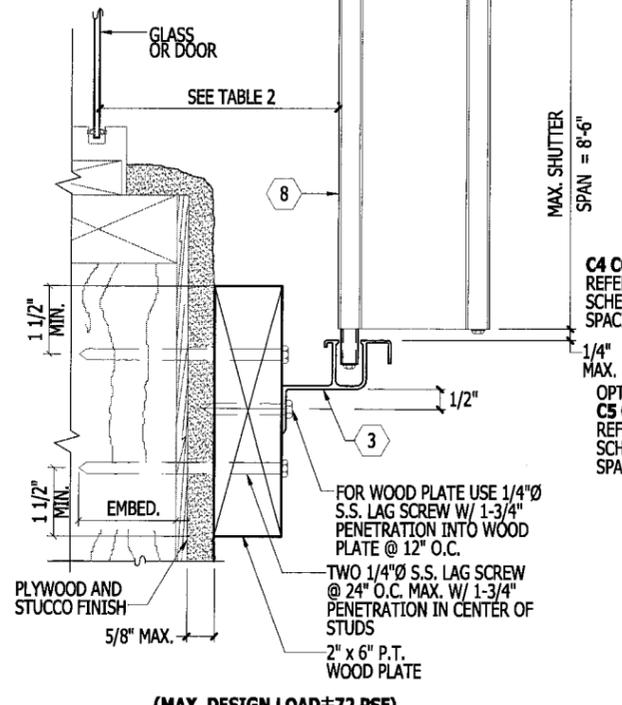
- USE BEAM-SCHEDULE FOR DETAILS (H) AND (J).
- SHUTTER SPAN TO BE LIMITED TO THOSE SHOWN IN TABLE, SHEET 5.
- BEAM SPAN SHALL BE CONSIDERED AS THE DISTANCE FROM C OF SUPPORT TO C OF SUPPORT.



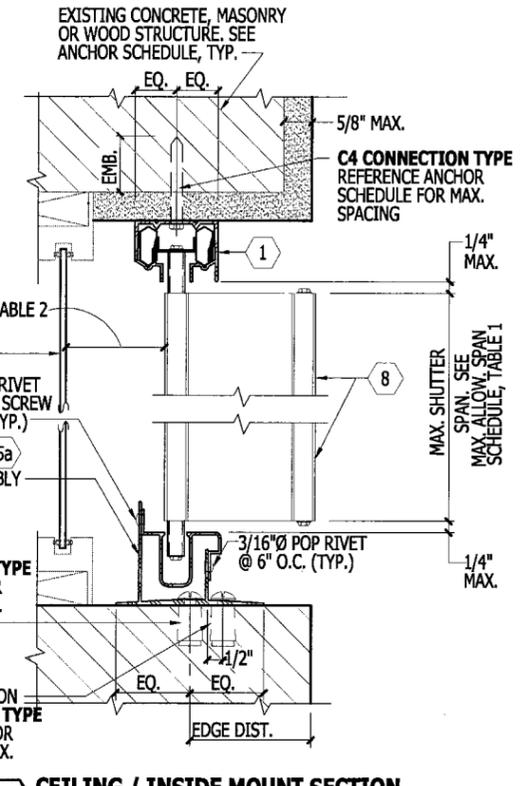
J BOTTOM SUPPORT BEAM DETAIL
SCALE: 3" = 1'-0"



I WALL MOUNT SECTION USING ALUMINUM TUBE
SCALE: 3" = 1'-0"



K WALL MOUNT SECTION - USING 2" x 6" P.T. WOOD PLATE
SCALE: 3" = 1'-0"



L CEILING / INSIDE MOUNT SECTION
SCALE: 3" = 1'-0"

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 08-0425.02
Expiration Date: 08/24/2013
By: *Heather A. Miller*
Miami Data Product Control Division

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no.	date	by	description
0	09/14/2005	VJK	PREVIOUSLY DRAWING NO. 02-458

revisions

V.J. Knezevich
Professional Engineer
FL License No. PE 0010983

V.J. Knezevich

APR 10 2008

scale AS NOTED

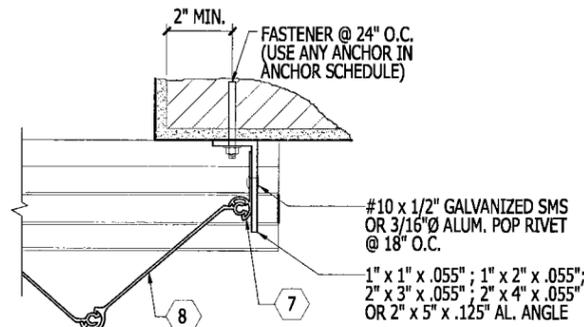
drawn by ARV

date 09/14/2005

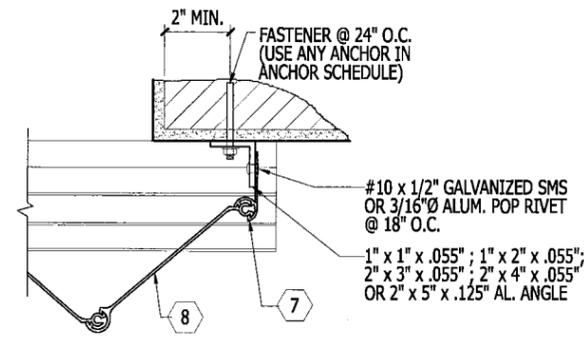
project no. 08-155

sheet 4 of 7

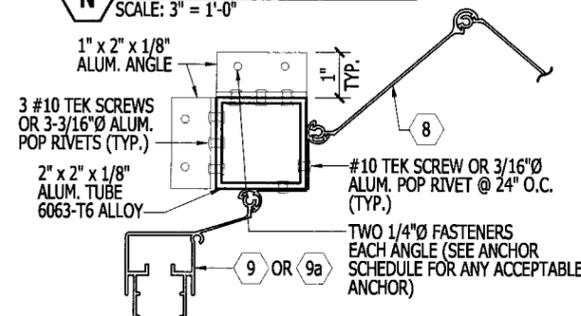
HTSG I.D. # 2008040205509



M ALTERNATE CLOSURE DETAIL
SCALE: 3" = 1'-0"

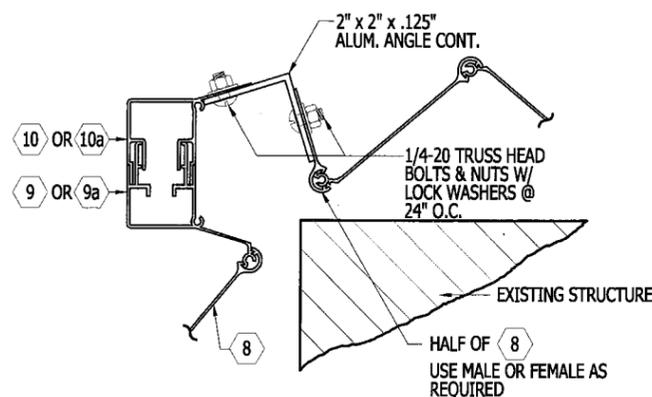


N ALTERNATE CLOSURE DETAIL
SCALE: 3" = 1'-0"



NOTE:
EITHER CONDITION MAY BE TYPICAL FOR EITHER SIDE

P CORNER CLOSURE DETAIL
SCALE: 3" = 1'-0"



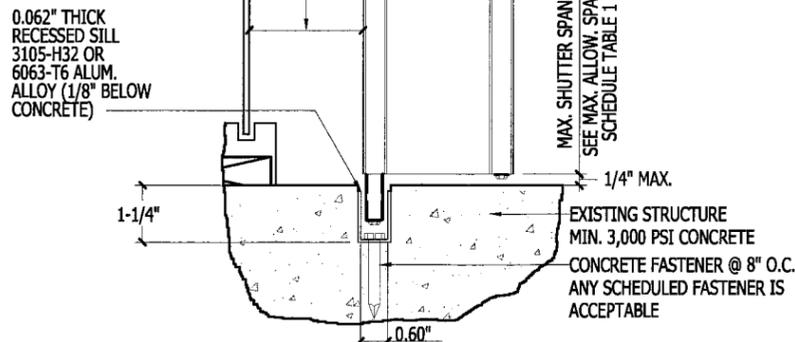
Q ALTERNATE CORNER CLOSURE DETAIL
SCALE: 3" = 1'-0"

TABLE 1 MAXIMUM ALLOWABLE SPAN SCHEDULE				
NEG. DESIGN LOAD (PSF)	TYPE A ALL MOUNTING CONDITIONS EXCEPT C, E, F (FT - IN)	TYPE B DETAIL F OR DETAIL C W/ SINGLE ANGLE REQUIRED 3-3/4" MAX. B.O. (FT - IN)	TYPE C DETAIL C DOUBLE ANGLE REQUIRED 3-3/4" MAX. B.O. (FT - IN)	TYPE D DETAIL E 9-3/16" MAX. B.O. (FT - IN)
30.0	13-1	12-4	13-1	12-7
38.0	13-1	11-0	13-1	11-2
40.0	12-11	10-8	12-5	10-11
48.0	12-4	9-9	10-4	10-0
52.0	12-1	9-4	9-7	9-7
56.0	11-11	9-0	9-0	9-3
61.5	11-7	8-7	8-7	8-10
63.3	11-6	8-6	8-6	8-8
66.8	10-11	8-3	8-3	8-5
67.5	10-9	8-3	8-3	8-5
71.2	10-3	8-0	8-0	8-2
75.0	9-8	7-8	7-8	8-0
81.4	8-11	7-0	7-0	7-4
86.8	8-5	6-7	6-7	6-10
91.4	8-0	6-3	6-3	6-6
100.0	7-3	5-9	5-9	6-0
110.0	6-7	5-2	5-2	5-5
120.0	6-1	4-9	4-9	5-0
130.0	5-7	4-5	4-5	4-7
140.0	5-2	4-1	4-1	4-3
150.0	4-10	3-10	3-10	4-0
160.0	4-6	3-7	3-7	3-9
170.0	4-3	3-4	3-4	3-6

NOTES:

1. REFERENCE APPROPRIATE COLUMN IN TABLE 1 BASED ON MOUNTING CONDITION IN FIELD.
2. FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.
3. ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAX. SHUTTER SPAN.
4. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. SHUTTER SEPARATION FROM GLASS.

MIN. SHUTTER SEPARATION FROM GLASS (SEE SCHEDULE SHEET 5)



R ALT. FLOOR MOUNT SECTION
SCALE: 3" = 1'-0"

TABLE 2 MINIMUM SHUTTER SEPARATION FROM GLASS (IN)			
POSITIVE DESIGN LOAD (W) (PSF)	ACTUAL SPAN (FT - IN)	MINIMUM SEPARATION FROM GLASS FOR INSTALLATIONS LESS THAN OR EQUAL TO 30' ABOVE GRADE (INCHES)	MINIMUM SEPARATION FROM GLASS FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
30.0	5-0	2-7/8	1-1/2
	7-0	2-7/8	1-5/8
	8-0	2-7/8	1-5/8
	11-0	3	2-1/8
	13-1	3-3/4	2-3/4
40.0	5-0	2-7/8	1-1/2
	7-0	2-7/8	1-5/8
	8-0	2-7/8	1-5/8
	11-0	3	2-1/4
	12-11	3-3/4	3
50.0	5-0	2-7/8	1-1/2
	7-0	2-7/8	1-5/8
	8-0	2-7/8	1-3/4
	11-0	3	2-1/2
	12-2	3-3/4	3
60.0	5-0	2-7/8	1-1/2
	7-0	2-7/8	1-5/8
	8-0	2-7/8	1-3/4
	11-0	3	1-3/4
	11-8	3-3/4	3
70.0	5-0	2-7/8	1-1/2
	7-0	2-7/8	1-5/8
	8-0	2-7/8	1-7/8
	9-6	3	2-1/4
	10-4	3	2-5/8
80.0	5-0	2-7/8	1-1/2
	7-0	2-7/8	1-3/4
	8-0	2-7/8	1-7/8
	11-0	3-1/8	3-1/8
	12-1	4	4
90.0	5-0	2-7/8	1-1/2
	7-0	2-7/8	1-3/4
	8-0	2-7/8	2
	11-0	3-3/8	3-3/8
	11-6	3-7/8	4
100.0	5-0	2-7/8	1-1/2
	7-0	2-7/8	1-3/4
	8-0	2-7/8	2
	9-0	3	2-3/4
	10-3	3	3

PRODUCT RENEWED
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no	date	by	description
0	09/14/2005	VJK	PREVIOUSLY DRAWING NO. 02-458

HTSG I.D. # 2008040205509

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FL License No.: PE 0010983

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scale AS NOTED
drawn by ARV
date 09/14/2005
project no. 08-155
sheet 5 of 7

ANCHOR SCHEDULE FOR CONCRETE

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

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE																				MIN. 3" EDGE DISTANCE																			
		SPANS UP TO 5'-8" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 9'-0" (SEE NOTE 1)					SPANS UP TO 13'-1" (SEE NOTE 1)					SPANS UP TO 5'-8" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 9'-0" (SEE NOTE 1)					SPANS UP TO 13'-1" (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)					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	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
	45.0	12	12	12	12	7	12	12	12	8	5	12	12	12	7	4	10	5	5	5	3	12	12	12	12	9	12	12	12	10	6	12	12	12	9	5	11	6	6	6	3
	57.0	12	12	12	9	6	12	12	12	6	4	11	9	10	6	3	8	3				12	12	12	11	7	12	12	12	8	5	12	10	12	7	4	9	3	3	5	3
	73.0	12	12	12	7	4	10	5	5	5	3	9	4	3	4		8	3				12	12	12	9	5	11	6	6	6	4	10	4	4	5	3	9	3	3	5	3
	105.0	10	5	5	5	3	8	3				8	3				8	3				12	12	12	9	5	11	6	6	6	3	9	3	3	5	3	9	3	3	5	3
	170.0	8	3				8	3				8	3				8	3				12	12	12	9	5	11	6	6	6	3	9	3	3	5	3	9	3	3	5	3
	45.0	12	12	12	12	9	12	12	12	9	6	12	12	12	8	6	12	9	9	5	4	12	12	12	12	12	12	12	12	12	10	12	12	12	12	9	12	11	11	9	6
	57.0	12	12	12	10	7	12	12	12	7	5	12	12	12	6	4	12	5	4	4	3	12	12	12	12	11	12	12	12	12	8	12	12	12	10	7	12	6	6	7	5
	73.0	12	12	12	8	5	12	9	9	5	4	12	6	6	5	3	12	5	4	4	3	12	12	12	12	8	12	12	11	9	6	12	8	8	8	5	12	6	6	7	5
	105.0	12	9	8	5	4	12	5	4	4	3	12	5	4	4	3	12	5	4	4	3	12	11	11	9	6	12	6	6	7	5	12	6	6	7	5	12	6	6	7	5
	170.0	12	5	4	4	3	12	5	4	4	3	12	5	4	4	3	12	5	4	4	3	12	6	6	7	5	12	6	6	7	5	12	6	6	7	5	12	6	6	7	5
	45.0	12	12	12	10	6	12	12	12	7	4	12	12	12	6	4	8	4	4	4		12	12	12	12	7	12	12	12	9	5	12	12	12	8	4	9	5	5	5	3
	57.0	12	12	12	8	5	10	10	10	5	3	9	7	8	5	3	6					12	12	12	10	6	12	12	12	7	4	10	8	9	6	3	7			4	
	73.0	11	11	11	6	3	8	4	4	4		7	3	3	4		6					12	12	12	7	4	9	5	5	5	3	8	3	3	4		7			4	
	105.0	8	4	4	4		6					6					6					12	12	12	7	4	9	5	5	5	3	7			4		7			4	
	170.0	6			3		6					6					6					12	12	12	7	4	7			4		7			4		7			4	
	45.0	12	12	12	12	11	12	12	12	12	7	12	12	12	11	6	12	8	7	7	4	12	12	12	12	12	12	12	12	12	8	12	12	12	12	7	12	8	8	8	5
	57.0	12	12	12	12	8	12	12	12	9	6	12	12	12	8	5	11	4	4	6	3	12	12	12	12	9	12	12	12	11	6	12	12	12	10	6	12	4	4	7	4
	73.0	12	12	12	10	6	12	8	8	7	4	12	5	5	6	4	11	4	4	6	3	12	12	12	12	7	12	8	8	8	5	12	6	5	7	4	12	4	4	7	4
	105.0	12	7	7	7	4	11	4	4	6	3	11	4	4	6	3	11	4	4	6	3	12	8	7	8	5	12	4	4	7	4	12	4	4	7	4	12	4	4	7	4
	170.0	11	4	4	6	3	11	4	4	6	3	11	4	4	6	3	11	4	4	6	3	12	4	4	7	4	12	4	4	7	4	12	4	4	7	4	12	4	4	7	4
	45.0	12	12	12	12	11	12	12	12	12	7	12	12	12	11	7	12	8	8	7	4	12	12	12	12	12	12	12	12	12	9	12	12	12	12	8	12	10	10	9	6
	57.0	12	12	12	12	8	12	12	12	9	6	12	12	12	8	5	12	4	4	6	3	12	12	12	12	11	12	12	12	12	7	12	12	12	10	7	12	6	5	7	4
	73.0	12	12	12	10	6	12	8	8	7	4	12	6	5	6	4	12	4	4	6	3	12	12	12	12	8	12	11	10	9	6	12	7	7	8	5	12	6	5	7	4
	105.0	12	8	8	7	4	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	10	10	9	6	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4
	170.0	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4
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	57.0	12	12	12	12	8	12	12	12	9	6	12	12	12	8	5	12	4	4	6	3	12	12	12	12	11	12	12	12	12	7	12	12	12	10	7	12	6	5	7	4
	73.0	12	12	12	10	6	12	8	8	7	4	12	6	5	6	4	12	4	4	6	3	12	12	12	12	8	12	11	10	9	6	12	7	7	8	5	12	6	5	7	4
	105.0	12	8	8	7	4	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	10	10	9	6	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4
	170.0	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4

ANCHOR SCHEDULE FOR WOOD

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

ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 3/4" EDGE DISTANCE																								
		SPANS UP TO 5'-8" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 9'-0" (SEE NOTE 1)					SPANS UP TO 13'-1" (SEE NOTE 1)									
		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					
	45.0	12	12	12	9	7	12	12	12	6	5	12	12	12	5	4	12	9	9	3	3	12	9	9	3	3
	57.0	12	12	12	7	5	12	12	12	5	3	12	12	12	4	3	12	5	4	3		12	5	4	3	
	73.0	12	12	12	5	4	12	9	9	3	3	12	6	6	3		12	5	4	3		12	5	4	3	
	105.0	12	9	8	3	3	12	5	4	3		12	5	4	3		12	5	4	3		12	5	4	3	
	170.0	12	5	4	3		12	5	4	3		12	5	4	3		12	5	4	3		12	5	4	3	

SEE PAGE 7 FOR ANCHOR NOTES

PRODUCT RENEWED
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 Miami Dade Product Control Division

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no	date	by	description
0	09/14/2005	VJK	PREVIOUSLY DRAWING NO. 02-148

HTSG I.D. # 2008040205509

V.J. Knezevich
 Professional Engineer
 FL License No.: PE 0010983

APR 10 2008

scale: AS NOTED
 drawn by: ARV
 date: 09/14/2005
 project no.: **08-155**
 sheet 6 of 7

ANCHOR SCHEDULE FOR HOLLOW CONCRETE BLOCK

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

ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE																				MIN. 3" EDGE DISTANCE																			
		SPANS UP TO 5'-8"					SPANS UP TO 8'-0"					SPANS UP TO 9'-0"					SPANS UP TO 13'-1"					SPANS UP TO 5'-8"					SPANS UP TO 8'-0"					SPANS UP TO 9'-0"					SPANS UP TO 13'-1"				
		(SEE NOTE 1)					(SEE NOTE 1)					(SEE NOTE 1)					(SEE NOTE 1)					(SEE NOTE 1)					(SEE NOTE 1)					(SEE NOTE 1)					(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)					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	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
	45.0	12	12	12	7	4	9	9	9	5	3	8	8	8	4	5	3	3	3	12	12	12	8	5	10	10	10	6	3	9	9	9	5	3	6	3	3	3			
	57.0	10	10	10	5	3	7	7	7	4	6	5	5	3	4	11	11	11	7	4	12	12	12	9	5	11	11	11	6	4	10	8	9	5	3	7	4	4	5	3	
	73.0	7	7	7	4	5	3	3	3	4	4	4	4	4	4	12	12	12	7	4	9	5	4	5	3	8	3	3	4	7	4	4	4	4	7	4	4	4	4		
	105.0	5	5	5	3	4	4	4	4	4	4	4	4	4	4	10	10	10	6	3	7	7	7	5	10	10	10	5	3	9	7	8	5	3	6	3	3	3	3		
	170.0	4	4	4	3	4	4	4	4	4	4	4	4	4	4	8	8	8	5	3	6	6	6	4	6	4	5	3	4	5	3	4	5	3	4	5	3	4	5	3	
	45.0	12	12	12	7	5	11	11	11	5	3	10	10	10	4	3	7	3	3	3	12	12	12	7	12	12	12	8	5	12	12	12	7	4	8	4	4	5	3		
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	105.0	7	3	3	3	5	5	5	5	5	5	5	5	5	5	8	4	4	4	4	12	12	12	10	6	12	12	12	7	4	12	12	12	6	4	8	4	4	4	4	
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ANCHOR NOTES:

- SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM SHUTTER SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1, PAGE 5.
- 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 SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER 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 MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
- DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
- * DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.
- FOR BUILD-OUT MOUNT SECTION ANCHOR SPACING SHALL NOT EXCEED 8-1/2" O.C.
- FOR BUILD-OUT MOUNT SECTION ANCHOR SPACING SHALL NOT EXCEED 6" O.C.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0425.02
Expiration Date 08/24/2013
By *Helmut A. Melch*
Miami Dade Product Control
Division

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HTSG I.D. # 2008040205509		

V.J. Knezevich
Professional Engineer
FL License No.: PE 0710983

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scale AS NOTED
drawn by ARV
date 09/14/2005
project no. **08-155**
sheet 7 of 7