



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

Miami Dade Aluminum Supply, Inc.
1615 West 31st Place
Hialeah, Florida 33012

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: "Residential Bertha" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. **05-307**, titled "ASSA/ Residential Bertha Accordion Shutter", sheets 1 through 10 of 10, and sheet 1A of 10, prepared by Tilteco, Inc., dated 09/29/2005, last revision #1 dated 09/29/2005 signed and sealed by Walter A. Tillit Jr., 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 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 # 05-1220.12** 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
 05/24/2007

NOA No 07-0402.06
Expiration Date: 04/13/2012
Approval Date: 05/24/2007
Page 1

Miami Dade Aluminum Supply, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0212.02

A. DRAWINGS

1. *Drawing No. 99-22, prepared by Tilteco Inc., titled "ASSA / Residential Bertha Accordion Shutter", dated January 29, 1999, sheets 1 through 10 of 10, signed and sealed by Walter A. Tillit, Jr., P.E. on January 29, 1999.*

B. TESTS

1. *See Association's generic approval under 98-0103.*

C. CALCULATIONS

1. *See Association's generic approval under 98-0103.*

D. MATERIAL CERTIFICATIONS

1. *See Association's generic approval under 98-0103.*

E. STATEMENTS

1. *Release letter issued by the American Shutter Systems Association, Inc., dated January 28, 1999, certifying this product to meet the criteria of product tested and approved, and allowing Miami Dade Aluminum Supply, Inc. to use the test results approved under Miami-Dade County Approval No. 98-0103, signed by Mr. John J. Cooper.*
2. *Acknowledgment letter by Miami Dade Aluminum Supply, Inc., dated February 4, 1999 signed by Mr. Juan M. Delgado.*
3. *Letter by Tilteco Inc., dated January 29, 1999, certifying that the drawing (No. 99-22) prepared for Miami Dade Aluminum Supply, Inc., signed and sealed by Mr. Walter A. Tillit, Jr., P.E., is engineering wise identical to ASSA's generic drawing (No. 98-209).*
4. *Acceptance Letter issued to Mr. Juan M. Delgado on March 23, 1999 and returned signed by Mr. Juan M. Delgado on March 31, 1999, who confirmed to issue the proposed Notice of Acceptance as presented and reviewed.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0404.01

A. DRAWINGS

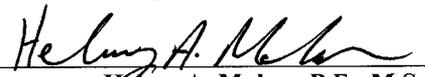
1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*



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

Product Control Examiner

NOA No 07-0402.06

Expiration Date: 04/13/2012

Approval Date: 05/24/2007

Miami Dade Aluminum Supply, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. MATERIAL CERTIFICATIONS

1. *None.*

E. STATEMENTS

1. *Letter by Miami Dade Aluminum Supply, Inc., dated April 01, 2002, signed by Mr. Juan M. Delgado, stating that the product has not changed.*
2. *Acceptance Letter issued to Mr. Juan M. Delgado on April 16, 2002 and returned signed by Mr. Juan M. Delgado on April 29, 2002, who confirmed to issue the proposed Notice of Acceptance as presented and reviewed.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-1220.12

A. DRAWINGS

1. *Drawing No. 05-307, titled "ASSA/ Residential Bertha Accordion Shutter", sheets 1 through 10 of 10, and sheet 1A of 10, prepared by Tilteco, Inc., dated 09/29/2005, last revision #1 dated 09/29/2005 signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *None. See Association's generic approval under 05-0167.*

C. CALCULATIONS

1. *None. See Association's generic approval under 05-0167.*

D. QUALITY ASSURANCE

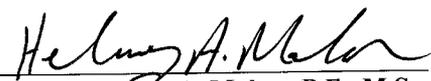
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None. See Association's generic approval under 05-0167.*

F. STATEMENTS

1. *Letter by Tilteco Inc., dated September 29, 2005, certifying that the drawing (No. 05-307) prepared for Miami Dade Aluminum Supply, Inc., signed and sealed by Mr. Walter A. Tillit, Jr., P.E., is engineering wise identical to ASSA's generic drawing (No. 05-124).*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No 07-0402.06
Expiration Date: 04/13/2012
Approval Date: 05/24/2007

Miami Dade Aluminum Supply, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None. See Association's generic approval under 05-0167.*

C. CALCULATIONS

1. *None. See Association's generic approval under 05-0167.*

D. QUALITY ASSURANCE

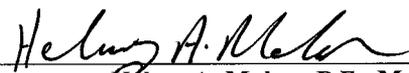
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None. See Association's generic approval under 05-0167.*

F. STATEMENTS

1. *Letter by Tilteco Inc., dated May 02, 2007, certifying that Tilteco, Inc. is still the engineer of record for this product and manufacturer's name, and continues to be in the engineering business.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No 07-0402.06
Expiration Date: 04/13/2012
Approval Date: 05/24/2007

GENERAL NOTES:

1. ACCORDION SHUTTER SHOWN ON THIS PRODUCT APPROVAL DOCUMENT HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2004 EDITION OF THE FLORIDA BUILDING CODE. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.A.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. A DURATION FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD. ACCORDION SHUTTER'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.4 OF THE ABOVE MENTIONED CODE AS PER ATL REPORT # 0902.01-98 AND 0701.01-05, PER TAS-201, TAS-202, AND TAS-203 PROTOCOLS.

2. STAINLESS STEEL SHEET METAL SCREWS USED AT LOUVER PIN SHALL BE # 10 x 3", 410-HT MINIMUM SERIES W/ 135.0 ksi YIELD POINT & 180 ksi TENSILE STRENGTH. SCREWS SHALL BE COATED WITH XYLAN 5000 SERIES FLUOROPOLYMER COATINGS AS MANUFACTURED BY WHITFORD Co, BOX 507 WEST CHESTER PA. 19381.

3. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY.

4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES W/ 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018.

5. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.

6. BOLTS TO BE 2024-T4 ALUMINUM ALLOY GALVANIZED OR STAINLESS STEEL WITH 35 ksi MINIMUM MINIMUM YIELD STRENGTH.

7. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

(A) TO EXISTING POURED CONCRETE:

- 1/4"Ø TAPCON ANCHORS, AS MANUFACTURED BY I.T.W. BUILDEX.
- 1/4"Ø ZAMAC NAILIN ANCHORS, AS MANUFACTURED BY POWERS FASTENERS, INC.
- 1/4"Ø x 7/8" CALK-IN AS MANUFACTURED BY POWERS FASTENERS.

NOTES:

A.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS AND ZAMAC NAILIN INTO POURED CONCRETE IS 1 3/4".

A.2) 1/4"Ø x 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST.

A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1 & A.2 ABOVE.

(B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4"Ø TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX.
- 1/4"Ø ZAMAC NAILIN ANCHORS AS MANUFACTURED POWERS FASTENERS, INC.
- 1/4"Ø x 7/8" CALK-IN AS MANUFACTURED BY POWERS FASTENERS, INC.

NOTES:

B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS, AND ZAMAC NAILIN ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".

B.2) 1/4"Ø x 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST.

B.3) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE 1 1/4" MINIMUM FOR ANCHORS MENTIONED IN B.1.), & 7/8" FOR ANCHORS MENTIONED IN B.2.).

(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

8. THIS RESIDENTIAL ACCORDION SHUTTER SYSTEM IS PATENT PENDING. COMPONENTS OF THIS APPROVAL ARE COVERED IN WHOLE OR PART BY U.S. PATENT ISSUED TO EASTERN METAL SUPPLY, INC.

9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.

10. EACH UNIT MUST BEAR A PERMANENT LABEL IN A VISIBLE PLACE WITH A WARNING NOTE INSTRUCTING THE TENANT OR HOME OWNER THAT ALL LOCKING PINS, AS WELL AS BOTH LOCKERS MUST BE PROPERLY INSTALLED & BOLTED DURING PERIODS OF HURRICANE WARNING.

11. SHUTTER'S MANUFACTURER LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE FEMALE LOCK SLAT (COMPONENT) ① OR ②

ONE LABEL SHALL BE PLACED FOR EVERY OPENING, LABEL SHALL READ AS FOLLOWS:

MIAMI DADE ALUMINUM SUPPLY INC.
HIALEAH, FL.

MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

12. (a) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION, INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.

PRODUCT RENEWED

as complying with the Florida

Building Code

Acceptance No 07-0402.06

Expiration Date 04/13/2012

By *Helmut A. M...*
Miami Dade Product Control
Division

PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No 05-1220.12

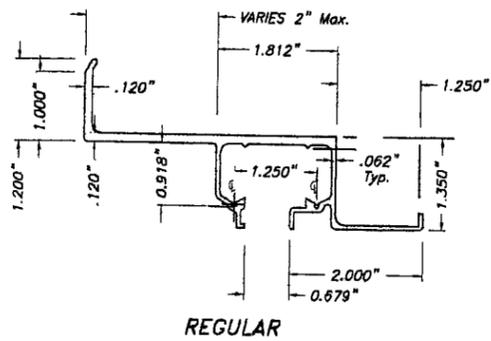
Expiration Date 04/13/2007

By *Helmut A. M...*
Miami Dade Product Control
Division

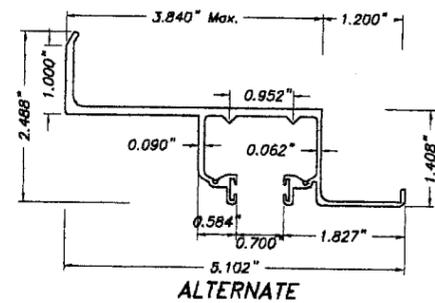
F.B.C. (High Velocity Hurricane Zone)

[Signature]
DEC 13 2005

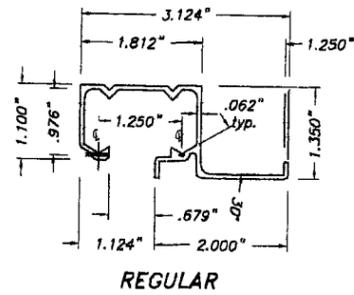
 TILLIT TESTING & ENGINEERING COMPANY 6335 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33189 Phone : (305)871-1530, Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167		ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER		DRAWN BY: J.V.	
		MIAMI DADE ALUMINUM SUPPLY, INC (ASSA # 117) 1615 WEST 31 PLACE HIALEAH, FLORIDA 33012 Phone : (305)823-0099, Fax : (305)823-2782		9/29/05 DATE	
REV. No		DESCRIPTION		DATE	
1		OLD 99-22		9/29/05	
2					
				05-307 DRAWING No	
				SHEET 1 OF 10	



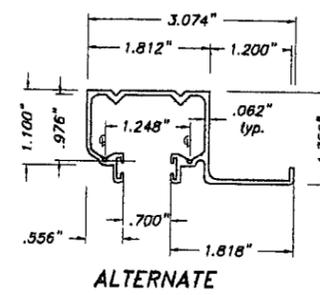
REGULAR



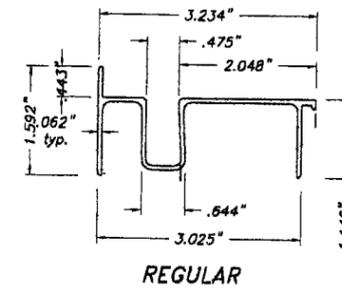
ALTERNATE



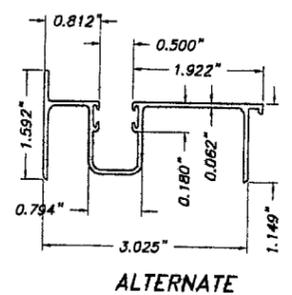
REGULAR



ALTERNATE



REGULAR

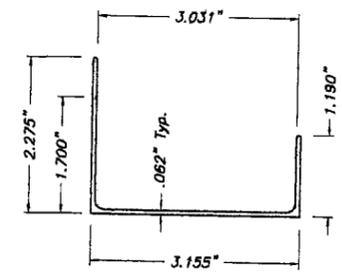


ALTERNATE

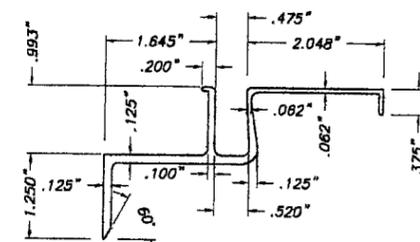
(A) WALL HEADERS
(A) WALL HEADERS (INVERTED USE)
SCALE: 3/8" = 1"

(B) CEILING HEADER
SCALE: 3/8" = 1"

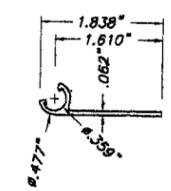
(C) SILL
SCALE: 3/8" = 1"



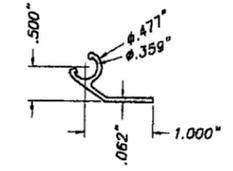
(D) SILL ADAPTER
SCALE: 3/8" = 1"



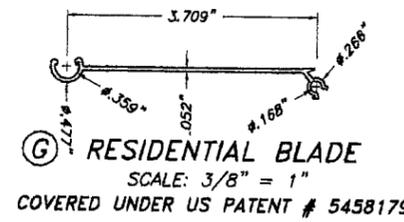
(E) BOTTOM BUILT-OUT
SCALE: 3/8" = 1"



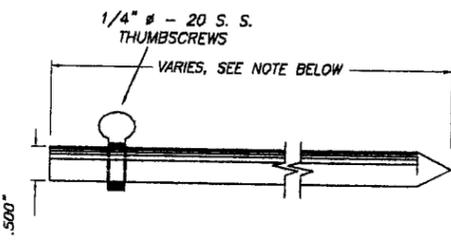
(F) FEMALE END SLAT
SCALE: 3/8" = 1"



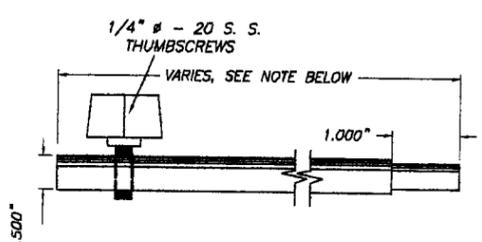
(F1) STARTER STRIP
SCALE: 3/8" = 1"



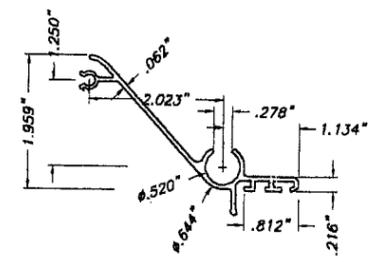
(G) RESIDENTIAL BLADE
SCALE: 3/8" = 1"
COVERED UNDER US PATENT # 5458179



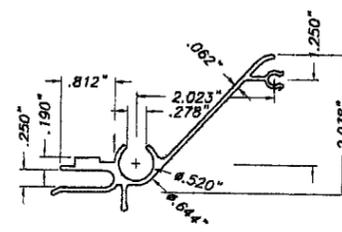
(H) LOCKING PIN
SCALE: 3/8" = 1"



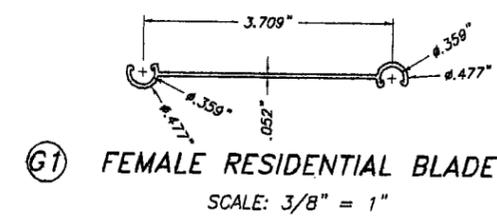
(H1) ALTERNATE LOCKING PIN
SCALE: 3/8" = 1"



(I) MALE LOCK SLAT
SCALE: 3/8" = 1"



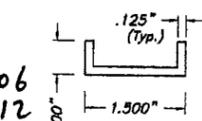
(J) FEMALE LOCK SLAT
SCALE: 3/8" = 1"



(G1) FEMALE RESIDENTIAL BLADE
SCALE: 3/8" = 1"

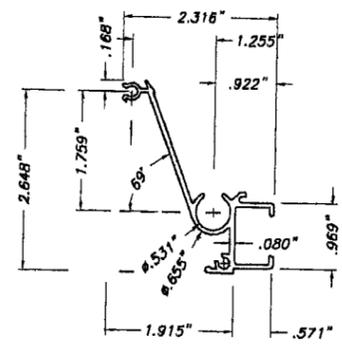
6" Min. FOR UP TO 9'-0" SHUTTER BLADE LENGTHS.
12" Min. FOR SHUTTER BLADE LENGTHS GREATER THAN 9'-0" UP TO 12'-0".

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 07-0402.06
Expiration Date 04/13/2012
By Helmut A. Mader
Miami Dade Product Control
Division

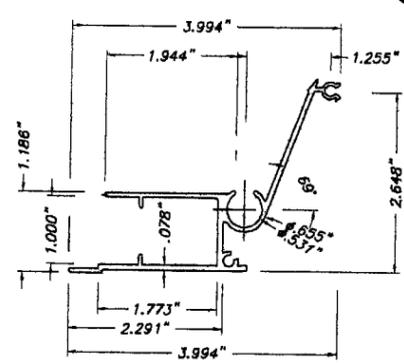


(K) LOCK CLIP
4" LONG
SCALE: 3/8" = 1"

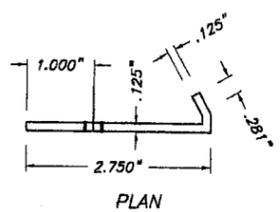
COMPONENTS



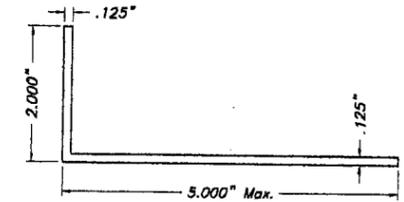
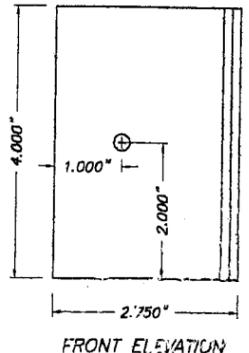
(L) MALE LOCK SLAT
SCALE: 3/8" = 1"



(M) FEMALE LOCK SLAT
SCALE: 3/8" = 1"



(N) LOCKER
SCALE: 3/8" = 1"



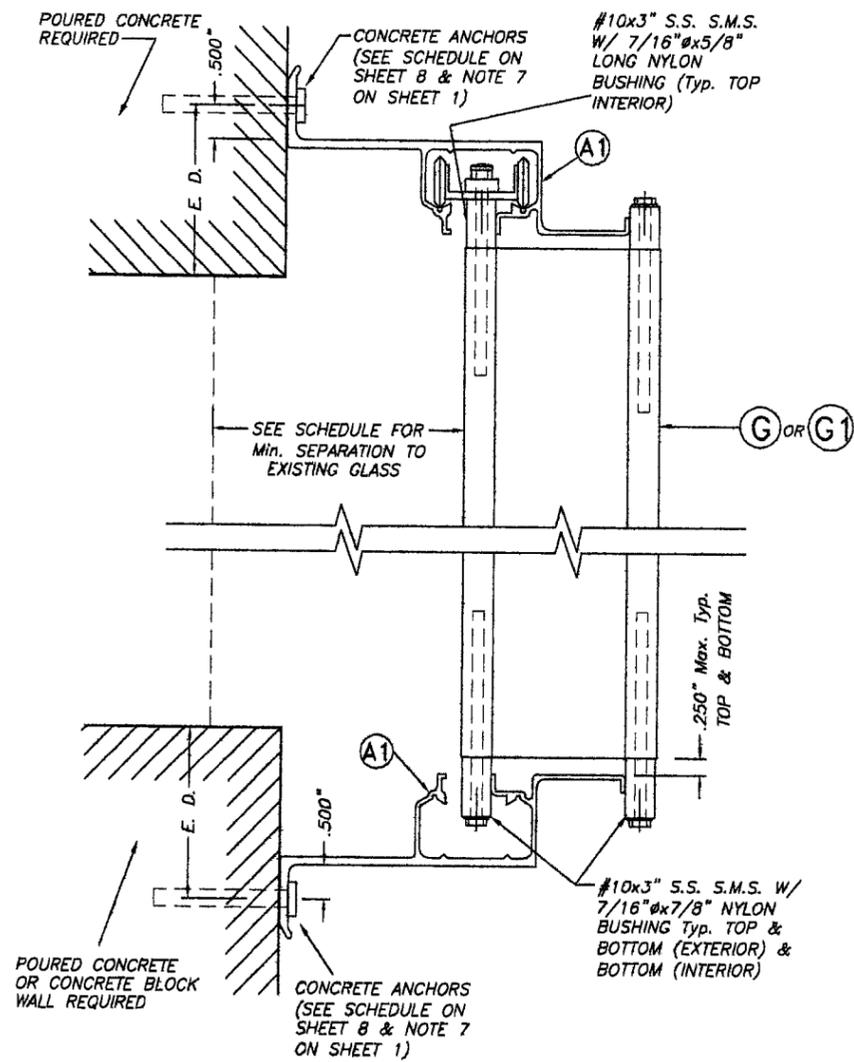
(O) ALUMINUM ANGLE
SCALE: 3/8" = 1"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 05-1220.12
Expiration Date 04/13/2007
By Helmut A. Mader
Miami Dade Product Control
Division

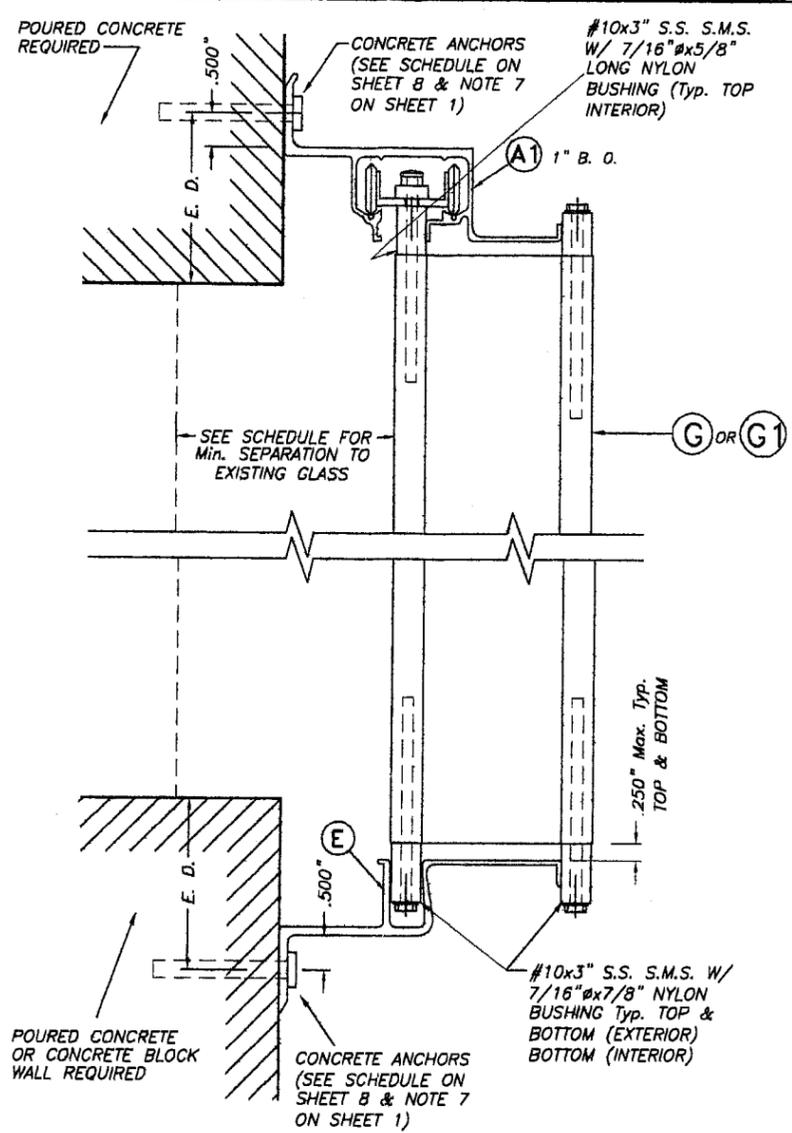
F.B.C. (High Velocity Hurricane Zone)

DEC 13 2005

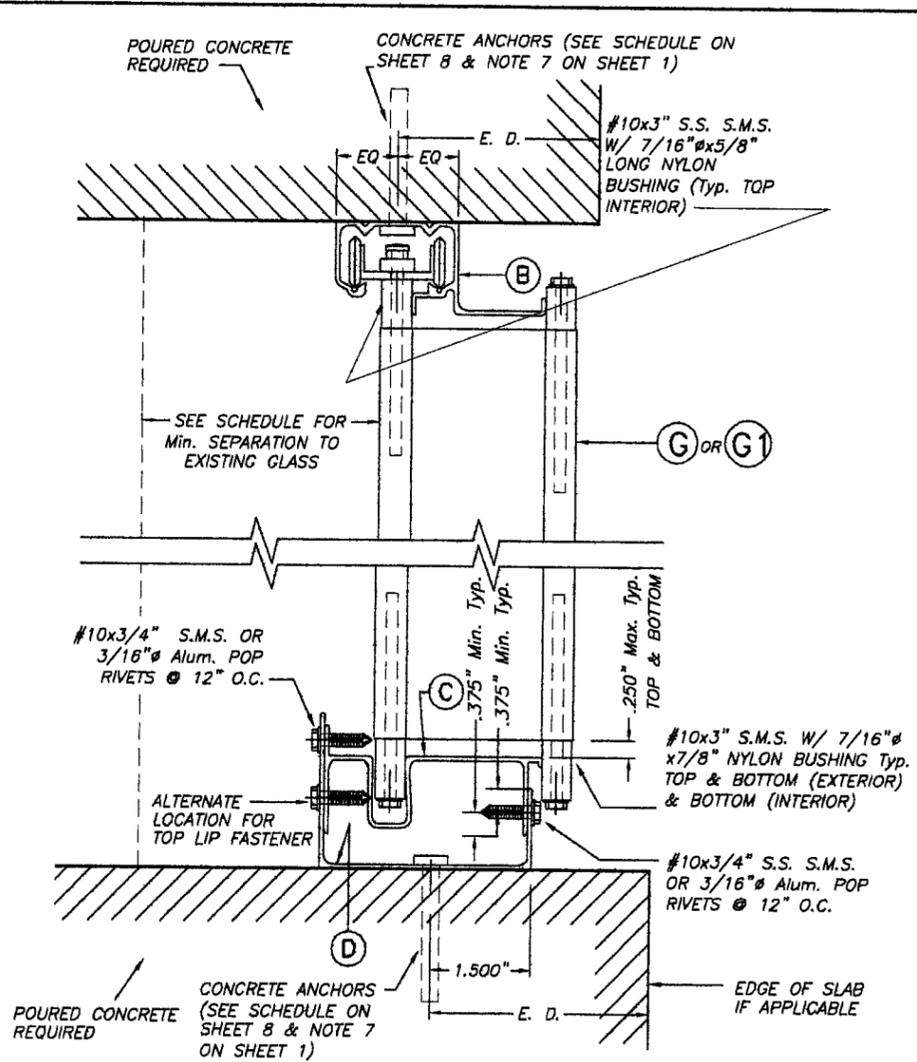
<p>TILLIT TESTING & ENGINEERING COMPANY 6385 N.W. 36th St., Ste. 303, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</p>		<p>ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER</p> <p>MIAMI DADE ALUMINUM SUPPLY, INC (ASSA # 117) 1615 WEST 31 PLACE HALEAH, FLORIDA 33012 Phone: (305)823-0099 Fax: (305)823-2782</p>		<p>DRAWN BY: J.V.</p> <p>9/29/05 DATE</p> <p>05-307 DRAWING No</p> <p>SHEET 1A OF 10</p>	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 99-22	9/29/05	3	-	-
2	-	-	4	-	-



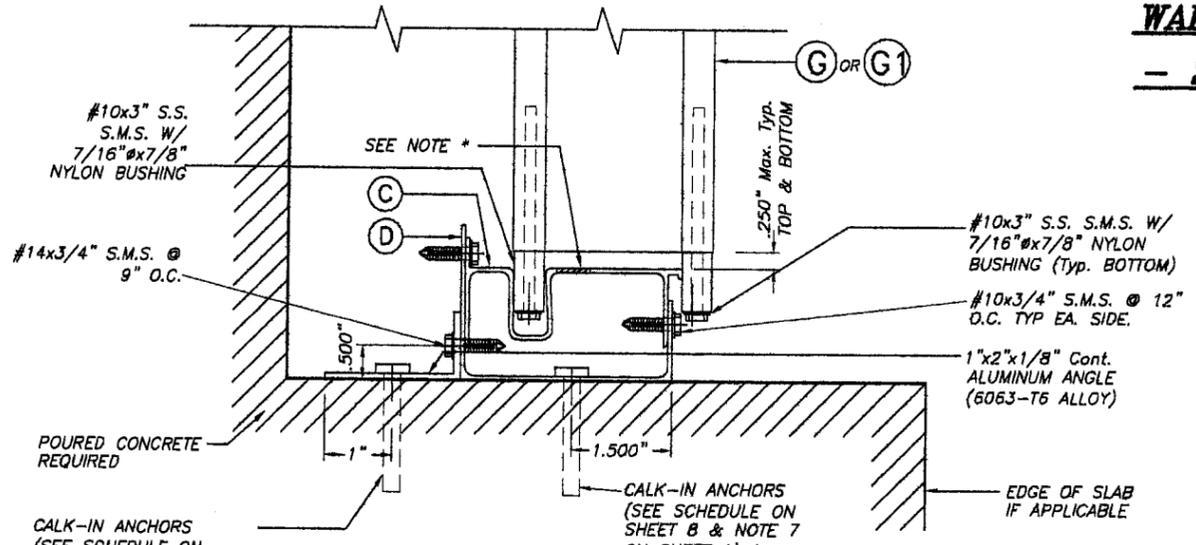
WALL MOUNTING INSTALLATION
- SECTION A SCALE: 3/8" = 1"



WALL MOUNTING INSTALLATION
- SECTION A1 SCALE: 3/8" = 1"



CEILING & FLOOR MOUNT. INSTALLAT.
- SECTION B SCALE: 3/8" = 1"



REMOVABLE FLOOR MOUNTING INSTALLATION
- SECTION B1 SCALE: 3/8" = 1"

* ALTERNATIVELY TO 1" x 2" Alum. ANGLE W/ ANCHOR, DRILL HOLE AT © TO INSTALL CALK-IN AT ②. COVER HOLE WITH NYLON CAPS.

E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON SHEET 8 OF 10)

NOTE FOR COMBINATION OF SECTIONS :
 WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 07-0402.06
 Expiration Date 02/13/2012
 By Helmut A. Mohr
 Miami Dade Product Control Division

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 05-1220.12
 Expiration Date 04/13/2007
 By Helmut A. Mohr
 Miami Dade Product Control Division

F.B.C. (High Velocity Hurricane Zone)

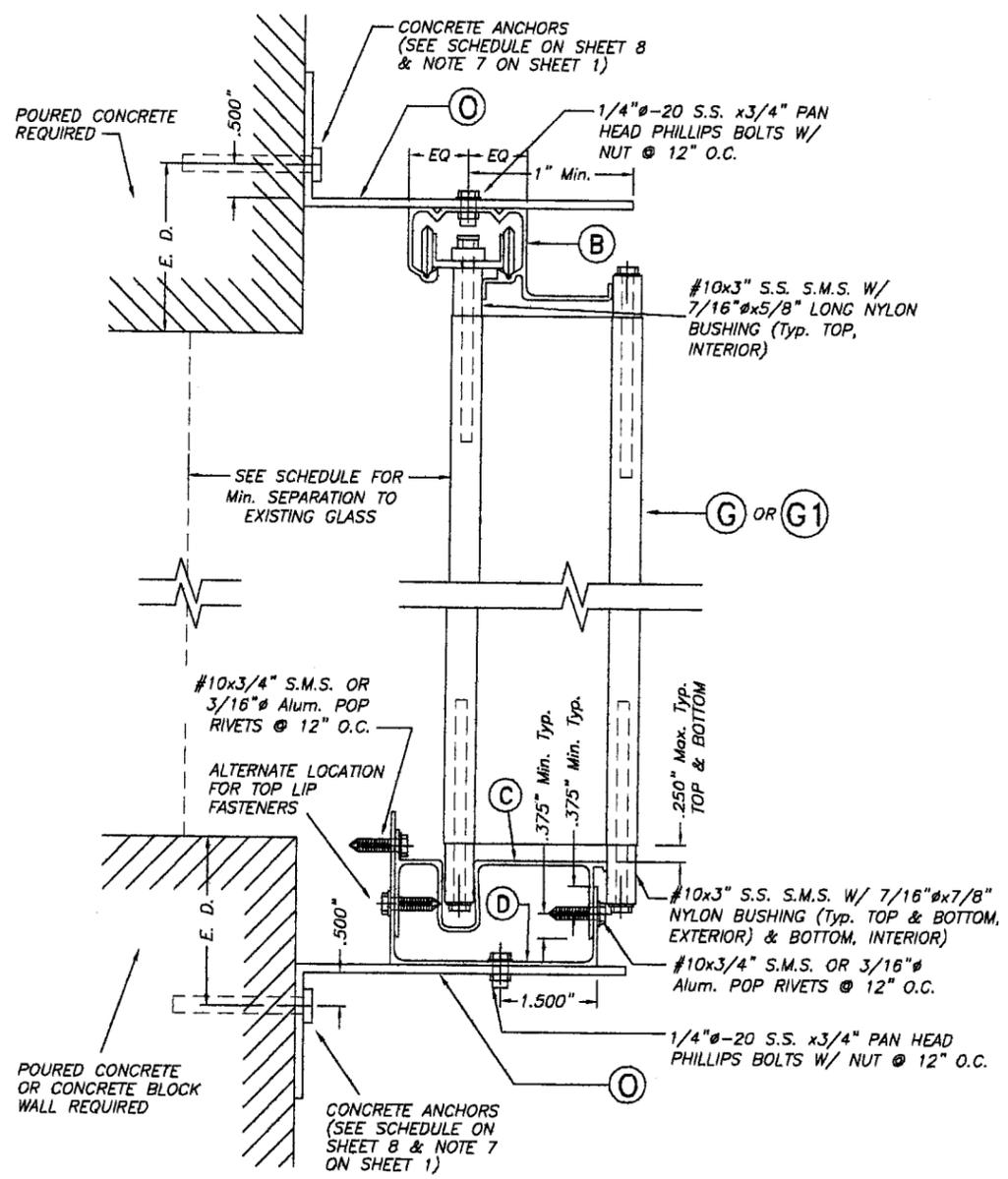
TILECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6385 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
 Phone : (305)871-1530 Fax : (305)871-1531
 EB-0006719
 WALTER A. TILLIT Jr., P. E.
 FLORIDA Lic. # 44167

ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER
MIAMI DADE ALUMINUM SUPPLY, INC
 (ASSA # 117)
 1615 WEST 31 PLACE
 HIALEAH, FLORIDA 33012
 Phone : (305)823-0099 Fax : (305)823-2782

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 98-22	9/29/00	3	-	-
2	-	-	4	-	-

DRAWN BY:
 J.V.
 9/29/05
 DATE
 05-307
 DRAWING No
 SHEET 2 OF 10

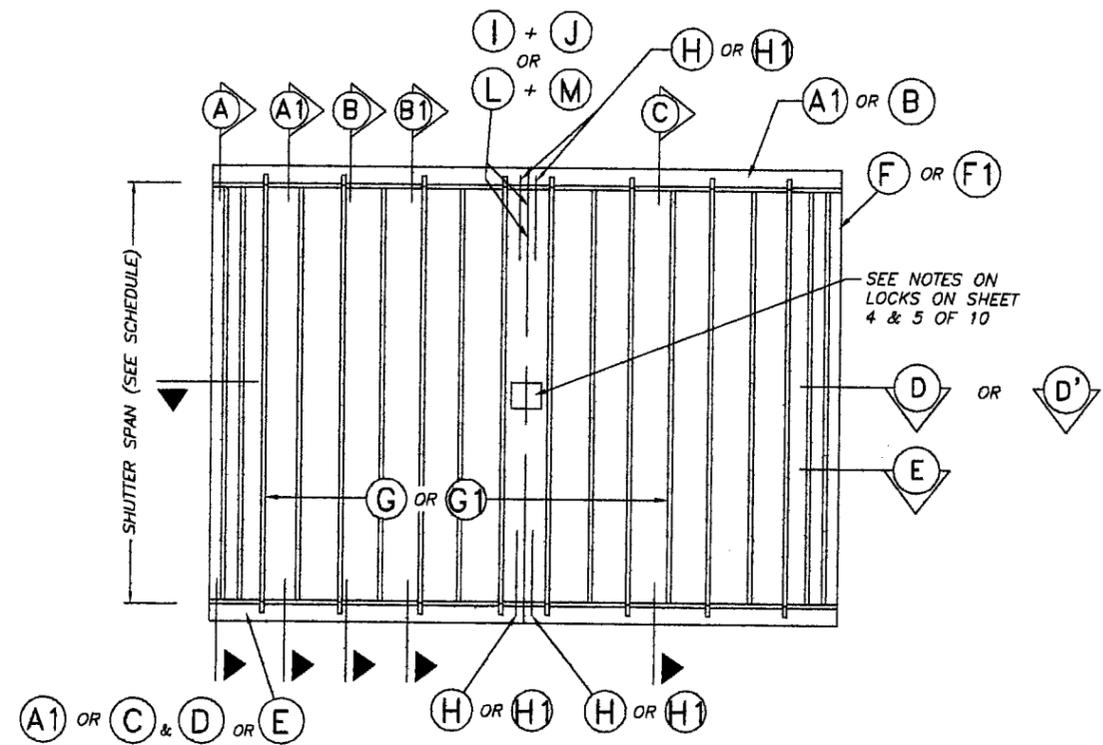
DEC 13 2005



WALL MOUNTING INSTALLATION (BUILD-OUT)

- SECTION C

SCALE : 3/8" = 1'



TYPICAL ELEVATION N. T. S.

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON SHEET 8 OF 10)

NOTE FOR COMBINATION OF SECTIONS :
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

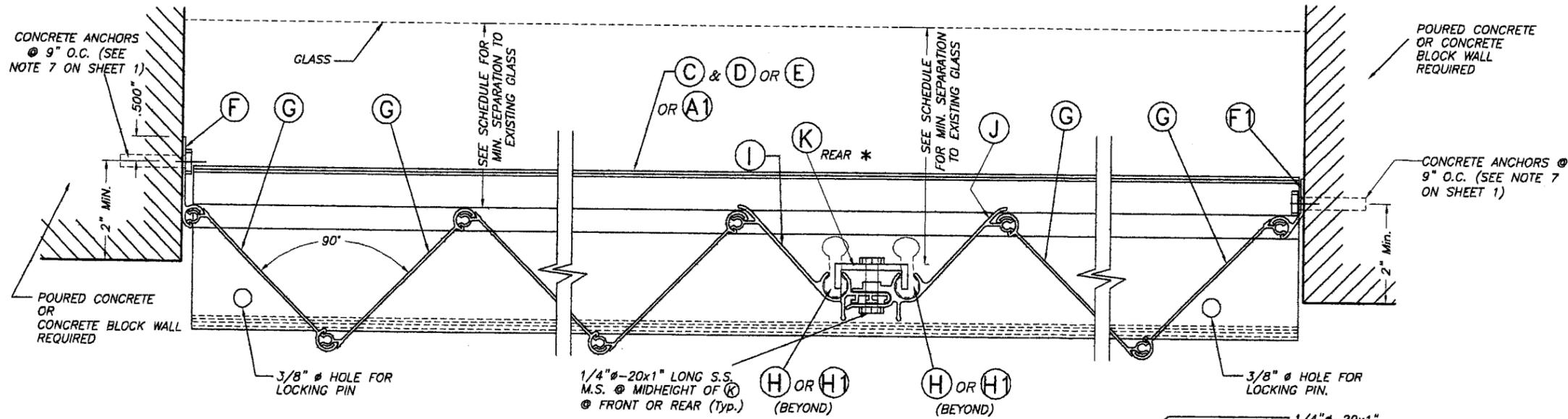
PRODUCT RENEWED
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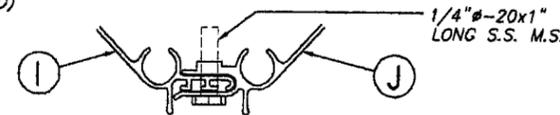
DEC 13 2005

 TILECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 303, VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER	DRAWN BY: J.V.																		
	MIAMI DADE ALUMINUM SUPPLY, INC (ASSA # 117) 1615 WEST 31 PLACE HIALEAH, FLORIDA 33012 Phone : (305)823-0099 . Fax : (305)823-2782	9/29/05 DATE																		
<table border="1"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 99-22</td> <td>9/29/05</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 99-22	9/29/05	3	-	-	2	-	-	4	-	-	05-307 DRAWING No	SHEET 3 OF 10
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	OLD 99-22	9/29/05	3	-	-															
2	-	-	4	-	-															



SECTION D

SCALE: 3/8" = 1"



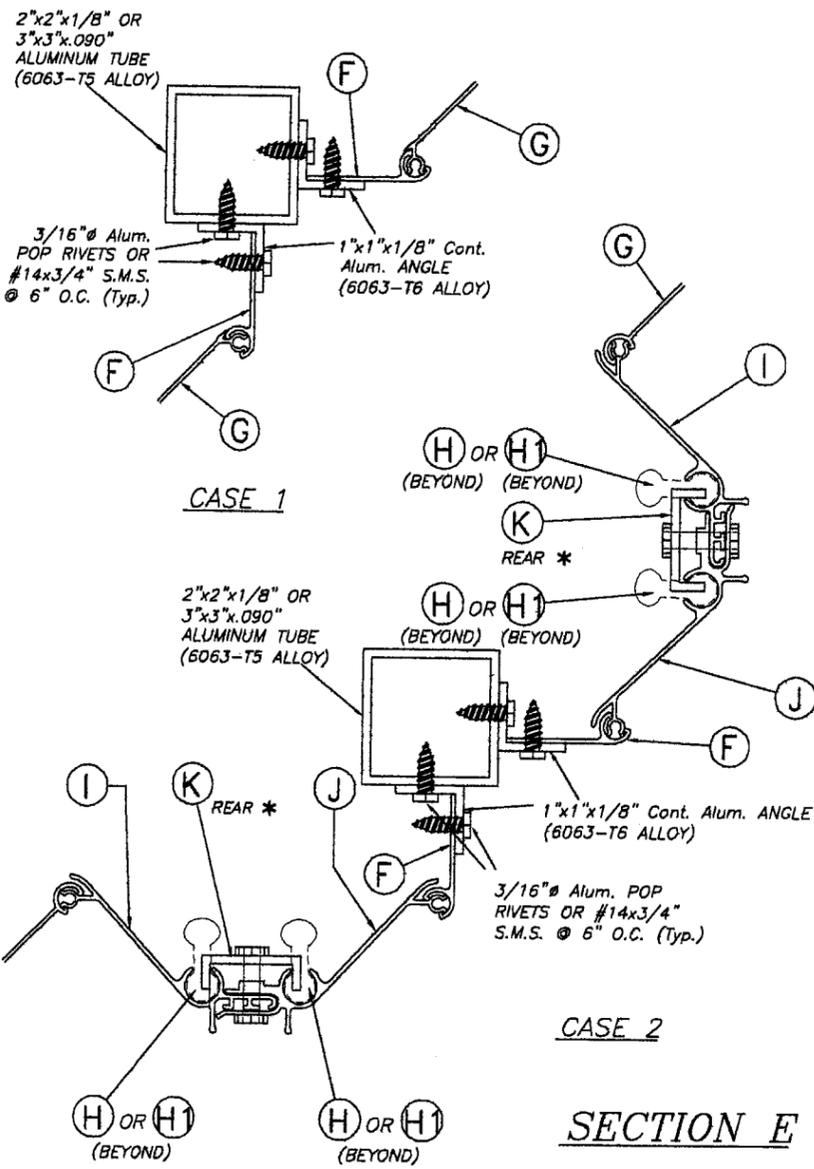
SECTIONS D, D' & E W/O (K) **

SCALE: 3/8" = 1"

NOTES ON LOCKS: APPLICABLE TO LOCK DETAILS SHOWN ON THIS SHEET.

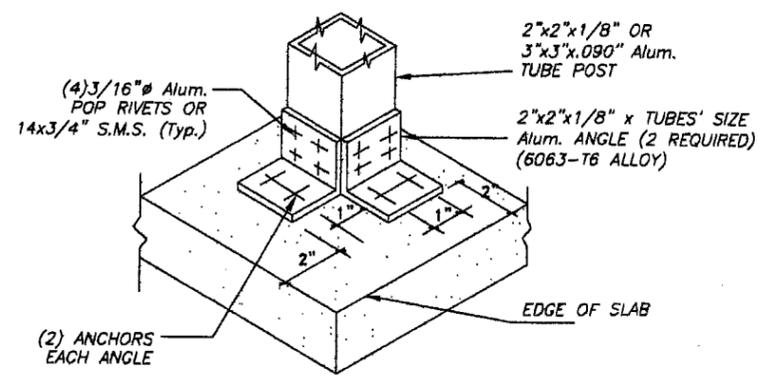
* CENTERMATES (I) & (J) SHALL ALWAYS BE LOCKED BY USING LOCK CLIP (K) INSTALLED FROM THE INSIDE OF SHUTTER W/ 1/4" #20 x 1" S.S. SIDEWALK BOLT AS SHOWN ON SECTIONS D & E. BOLT SHALL PENETRATE (I) LOCK CLIP, AS WELL AS (J) ENTIRELY. LOCK CLIP (K) 1/2" FLANGES SHALL FIT ENTIRELY INTO (I) & (J) LOCKING PIN GROOVES BEFORE SIDEWALK BOLT IS TIGHTENED.

** ALTERNATIVELY TO USING (K) LOCK CLIP, CENTERMATES (I) & (J) SHALL ALWAYS BE LOCKED BY INSTALLING A 1/4" #20 x 1" S.S. SIDEWALK BOLT DIRECTLY THRU BOTH CENTERMATES. FOR THIS PURPOSE, (I) & (J) CENTERMATES SHALL BE PRE-DRILLED AT THE BOLT LOCATION AS WELL AS TAPPED THRU IN ORDER TO ACCEPT THE 1/4" #20 SIDEWALK BOLT. THIS BOLT MAY BE INSTALLED FROM EITHER THE FRONT OR REAR OF SHUTTER.



SECTION E

SCALE: 3/8" = 1"



ISOMETRIC (CORNER POST) & BOTTOM SLABS

(Typ. AT TOP & BOTTOM SLABS)

SECTION D' : ONE SIDED SHUTTER END CONNECTION DETAIL

SCALE: 3/8" = 1"

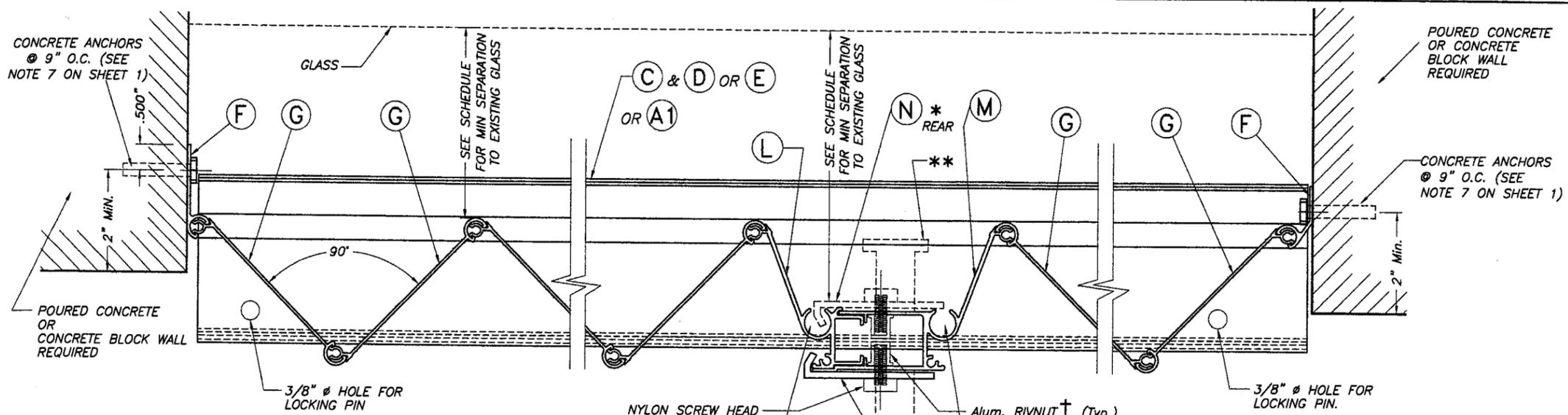
PRODUCT RENEWED
 as complying with the Florida Building Code
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PRODUCT REVISED
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F.B.C. (High Velocity Hurricane Zone)

		ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER		DRAWN BY: J.V.	
		MIAMI DADE ALUMINUM SUPPLY, INC (ASSA # 117) 1615 WEST 31 PLACE HIALEAH, FLORIDA 33012 Phone: (305)823-0099 Fax: (305)823-2782		9/29/05 DATE	
TILLIT TESTING & ENGINEERING COMPANY 5355 N.W. 36th St., Ste. 303, VICTORIA GARDENS, FLORIDA 33166 Phone: (305)871-1330 Fax: (305)871-1831 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167		REV. No. DESCRIPTION DATE REV. No. DESCRIPTION DATE 1 OLD 99-22 9/29/05 3 - - 2 - - - 4 - -		05-307 DRAWING No	
				SHEET 4 OF 10	

DEC 13 2005



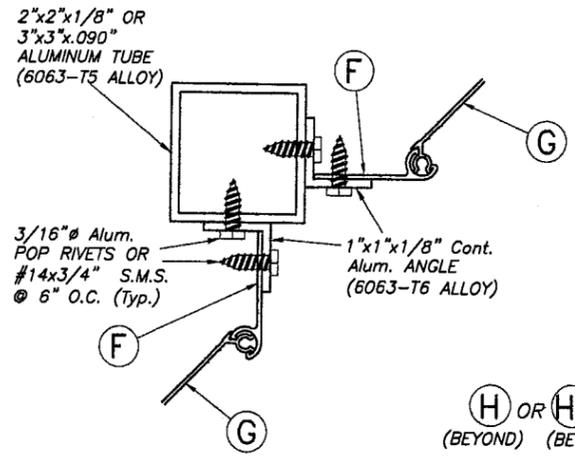
NOTES ON LOCKS : APPLICABLE TO LOCK DETAILS SHOWN ON THIS SHEET.

* LOCKER (N) SHALL ALWAYS BE USED FOR ANY SPAN AND INSTALLATIONS AT ANY ELEVATION. LOCKER (N) MAY BE USED AS AN INSIDE OR OUTSIDE LOCKER IF ATTACHED TO (L) & (M) W/ 1/4" Ø-20 x 1" LONG S. S. THREADED BOLT W/ 1/4" Ø-20 x 5/8" INTERNALLY THREADED ALUMINUM RIVNUT. SEE INSTALLATION DETAIL ON THIS SHEET.

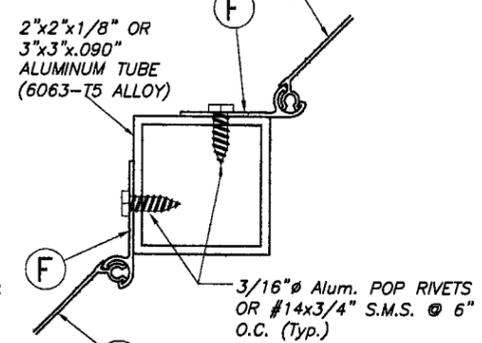
** FOR INSTALLATIONS AT ANY ELEVATION OF BUILDING AND IN ADDITION TO (N) LOCKERS, A REGULAR T LOCK MAY BE USED FOR SECURITY PURPOSES AT ANY DESIRED LOCATION OF CENTERMATE (INSIDE OR OUTSIDE). WHEN USED INSIDE, MINIMUM SEPARATION TO GLASS SHALL ALSO BE VERIFIED FROM THE TIP OF SUCH T LOCK OR FROM THE OTHER SHUTTER COMPONENTS SHOWN ON SECTION D (WHICHEVER IS MORE CRITICAL).

† : SERIES 9444 ALUMINUM (2024-T3 ALLOY) LARGE FLANGE THIN SHEET NUTSERT, PART # 0820, AS MANUFACTURED BY AVDEL CHERRY TEXTORN, PARSIPPENY, NEW JERSEY 07054 OR EQUAL.

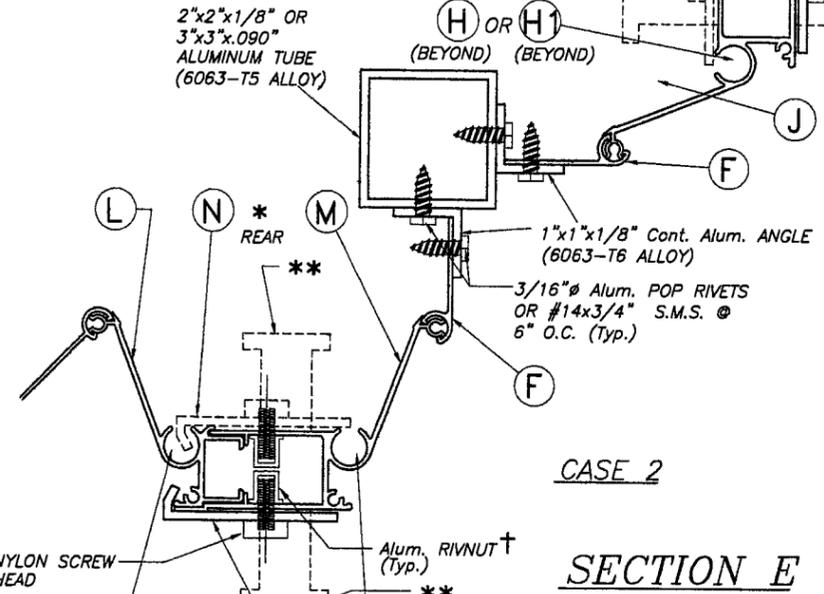
SECTION D
SCALE: 3/8" = 1"



CASE 1

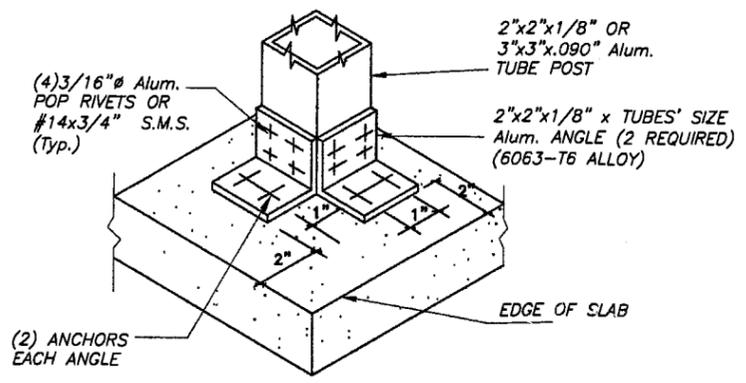


CASE 3

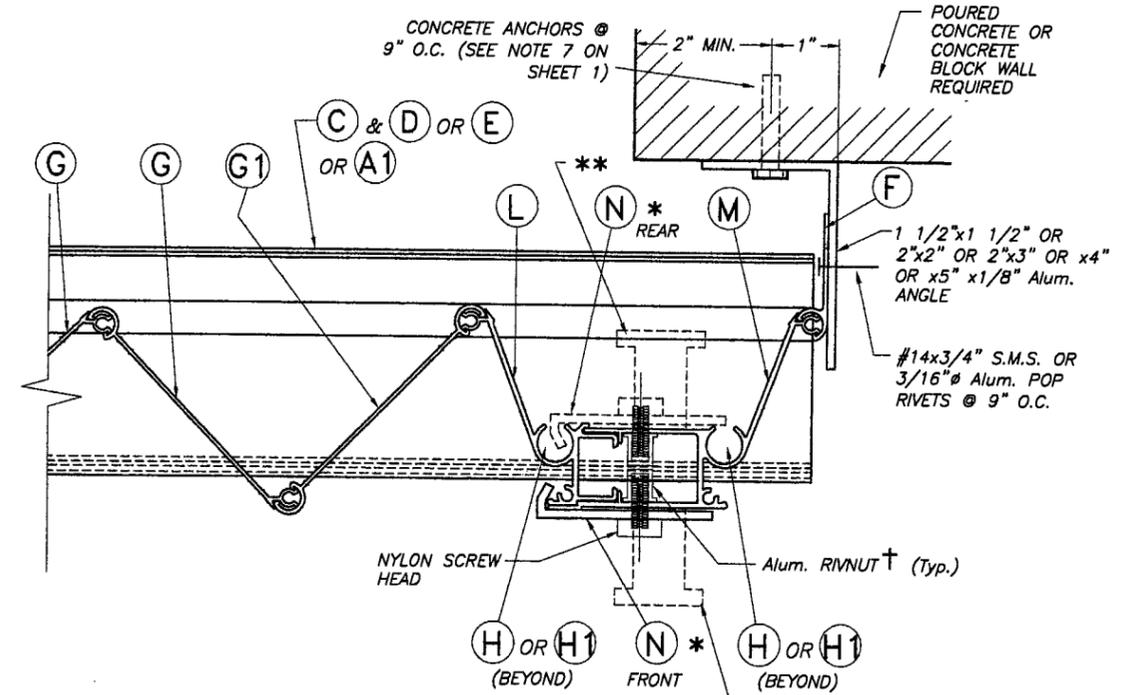


CASE 2

SECTION E
SCALE: 3/8" = 1"



ISOMETRIC (CORNER POST) & BOTTOM SLABS
(Typ. AT TOP)



**ONE SIDED SHUTTER :
END CONNECTION DETAIL**

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<p>TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRIDIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</p>		ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER		DRAWN BY: I.V.	
		<p>MIAMI DADE ALUMINUM SUPPLY, INC (ASSA # 117) 1615 WEST 31 PLACE HIALEAH, FLORIDA 33012 Phone : (305)823-0099 . Fax : (305)823-2782</p>		9/29/05 DATE	
<p>REV. No 1 DESCRIPTION OLD 98-22 DATE 9/29/05</p>		<p>REV. No 3 DESCRIPTION - DATE -</p>		05-307 DRAWING No	
<p>REV. No 2 DESCRIPTION - DATE -</p>		<p>REV. No 4 DESCRIPTION - DATE -</p>		SHEET 5 OF 10	

DEC 13 2005

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.

(VALID FOR SECTIONS A, A1 & C ON SHEET 2 & 3 OF 10).

NOTE: DESIGN PRESSURE RATING CORRESPONDS ONLY TO NEGATIVE PRESSURE (SUCTION) LOADS, IN ACCORDANCE WITH ASCE 7-98 CRITERIA FOR A GIVEN OPENING. IF NEGATIVE PRESSURE VALUES COMPLY WITH THE REQUIRED PRESSURE FOR THE OPENING, THE POSITIVE PRESSURE WILL AUTOMATICALLY QUALIFY AND NEED NOT TO BE CHECKED.

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
40.0	12'-1"	3 7/8"	3"
42.5	11'-11"	3 7/8"	3"
45.0	11'-9"	3 7/8"	3"
47.5	11'-7"	3 7/8"	3"
50.0	11'-5"	3 7/8"	3"
52.5	11'-1"	3 7/8"	3"
55.0	10'-10"	3 7/8"	3"
57.5	10'-7"	3 7/8"	3"
60.0	10'-5"	3 7/8"	3"
62.5	10'-2"	3 7/8"	3"
65.0	10'-0"	3 7/8"	3"
67.5	9'-10"	3 7/8"	3"
70.0	9'-7"	3 7/8"	3"
72.5	9'-5"	3 7/8"	3"
75.0	9'-4"	3 7/8"	3"
77.5	9'-2"	3 7/8"	3"
80.0	9'-0"	3 7/8"	3"
82.5	8'-9"	3 7/8"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
85.0	8'-6"	3 7/8"	3"
87.5	8'-3"	3 7/8"	3"
90.0	8'-0"	3 3/8"	3"
92.5	7'-9"	3 3/8"	3"
95.0	7'-7"	3 3/8"	3"
97.5	7'-5"	3 3/8"	3"
100.0	7'-2"	3 3/8"	3"
102.5	7'-0"	3 3/8"	3"
105.0	6'-10"	3 3/8"	3"
107.5	6'-8"	3 3/8"	3"
110.0	6'-7"	3 3/8"	3"
112.5	6'-5"	3 3/8"	3"
115.0	6'-3"	3 3/8"	3"
117.5	6'-2"	3 3/8"	3"
120.0	6'-0"	3 3/8"	3"
122.5	5'-11"	3 3/8"	3"
125.0	5'-9"	3 3/8"	3"
127.5	5'-8"	3 3/8"	3"
130.0	5'-6"	3 3/8"	3"
132.5	5'-5"	3 3/8"	3"
135.0	5'-4"	3 3/8"	3"
137.5	5'-3"	3 3/8"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
140.0	5'-2"	3 3/8"	3"
142.5	5'-1"	3 3/8"	3"
145.0	5'-0"	3 3/8"	3"
147.5	4'-11"	3 3/8"	3"
150.0	4'-10"	3 3/8"	3"
152.5	4'-9"	3 3/8"	3"
155.0	4'-8"	3 3/8"	3"
157.5	4'-7"	3 3/8"	3"
160.0	4'-6"	3 3/8"	3"
162.5	4'-5"	3 3/8"	3"
165.0	4'-4"	3 3/8"	3"
167.5	4'-4"	3 3/8"	3"
170.0	4'-3"	3 3/8"	3"
172.5	4'-2"	3 3/8"	3"
175.0	4'-1"	3 3/8"	3"
177.5	4'-1"	3 3/8"	3"
180.0	4'-0"	3 3/8"	3"

TABLE 1:

MINIMUM SEPARATION BETWEEN GLASS AND SHUTTER FOR A GIVEN SHUTTER SPAN "L" FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ABOVE GRADE OF A GIVEN BUILDING. 30'-0" ELEVATION SHALL BE MEASURED AT BOTTOM OF SHUTTER SEPARATION TO BE MEASURED AS INDICATED ON SECTION D, SHEET 4 OF 10.

SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION
LESS OR EQUAL THAN 8'-0"	3 3/8"
>8'-0" TO 12'-0"	3 7/8"

* FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING. SEE TABLE 1 FOR MINIMUM SEPARATION TO GLASS FOR SPANS SHORTER THAN THE MAXIMUM ALLOWED SHOWN ON SCHEDULE.
 ** FOR SHUTTERS INSTALLED ABOVE 30'-0" ELEVATION OF BUILDING, MEASURED AT BOTTOM OF SHUTTER

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DEC 13 2005	<table border="1"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 99-22</td> <td>9/29/05</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 99-22	9/29/05	3	-	-	2	-	-	4	-	-	SHEET 6 OF 10
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	OLD 99-22	9/29/05	3	-	-															
2	-	-	4	-	-															

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.

(VALID FOR SECTION B & B1 ON SHEET 2 OF 10).

NOTE: DESIGN PRESSURE RATING CORRESPONDS ONLY TO NEGATIVE PRESSURE (SUCTION) LOADS, IN ACCORDANCE WITH ASCE 7-98 CRITERIA FOR A GIVEN OPENING. IF NEGATIVE PRESSURE VALUES COMPLY WITH THE REQUIRED PRESSURE FOR THE OPENING, THE POSITIVE PRESSURE WILL AUTOMATICALLY QUALIFY AND NEED NOT TO BE CHECKED.

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
40.0	12'-0"	3 7/8"	3"
42.5	11'-11"	3 7/8"	3"
45.0	11'-9"	3 7/8"	3"
47.5	11'-7"	3 7/8"	3"
50.0	11'-5"	3 7/8"	3"
52.5	11'-3"	3 7/8"	3"
55.0	11'-1"	3 7/8"	3"
57.5	10'-10"	3 7/8"	3"
60.0	10'-7"	3 7/8"	3"
62.5	10'-4"	3 7/8"	3"
65.0	10'-2"	3 7/8"	3"
67.5	10'-0"	3 7/8"	3"
70.0	9'-10"	3 7/8"	3"
72.5	9'-8"	3 7/8"	3"
75.0	9'-6"	3 7/8"	3"
77.5	9'-4"	3 7/8"	3"
80.0	9'-2"	3 7/8"	3"
82.5	9'-0"	3 7/8"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
85.0	8'-11"	3 7/8"	3"
87.5	8'-9"	3 7/8"	3"
90.0	8'-5"	3 7/8"	3"
92.5	8'-3"	3 7/8"	3"
95.0	8'-1"	3 7/8"	3"
97.5	7'-10"	3 3/8"	3"
100.0	7'-8"	3 3/8"	3"
102.5	7'-6"	3 3/8"	3"
105.0	7'-3"	3 3/8"	3"
107.5	7'-1"	3 3/8"	3"
110.0	6'-11"	3 3/8"	3"
112.5	6'-10"	3 3/8"	3"
115.0	6'-8"	3 3/8"	3"
117.5	6'-6"	3 3/8"	3"
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122.5	6'-3"	3 3/8"	3"
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127.5	6'-0"	3 3/8"	3"
130.0	5'-11"	3 3/8"	3"
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135.0	5'-8"	3 3/8"	3"
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MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
140.0	5'-6"	3 3/8"	3"
142.5	5'-4"	3 3/8"	3"
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150.0	5'-1"	3 3/8"	3"
152.5	5'-0"	3 3/8"	3"
155.0	4'-11"	3 3/8"	3"
157.5	4'-10"	3 3/8"	3"
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175.0	4'-4"	3 3/8"	3"
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180.0	4'-3"	3 3/8"	3"

TABLE 1:

MINIMUM SEPARATION BETWEEN GLASS AND SHUTTER FOR A GIVEN SHUTTER SPAN "L" FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ABOVE GRADE OF A GIVEN BUILDING. 30'-0" ELEVATION SHALL BE MEASURED AT BOTTOM OF SHUTTER SEPARATION TO BE MEASURED AS INDICATED ON SECTION D, SHEET 4 OF 10.

SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION
LESS OR EQUAL THAN 8'-0"	3 3/8"
>8'-0" TO 12'-0"	3 7/8"

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 Miami Dade Product Control
 Division

* FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING. SEE TABLE 1 FOR MINIMUM SEPARATION TO GLASS FOR SPANS SHORTER THAN THE MAXIMUM ALLOWED SHOWN ON SCHEDULE.
 ** FOR SHUTTERS INSTALLED ABOVE 30'-0" ELEVATION OF BUILDING, MEASURED AT BOTTOM OF SHUTTER

DEC 1 2005

F.B.C. (High Velocity Hurricane Zone)

 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305)871-1530, Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER	DRAWN BY: J.V.
	MIAMI DADE ALUMINUM SUPPLY, INC (ASSA # 117) 1615 WEST 31 PLACE HIALEAH, FLORIDA 33012 Phone: (305)823-0099, Fax: (305)823-2782	9/29/05 DATE
REV. No DESCRIPTION DATE REV. No DESCRIPTION DATE	1 OLD 99-22 9/29/05 3 - -	05-307 DRAWING No
2 - - 4 - -	SHEET 7 OF 10	

**MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND
CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. †**

MAXIMUM DESIGN LOAD "W" (p.s.f.)	SECTIONS A, A1, C			SECTIONS A, A1, C			SECTIONS B, & B1		
	WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT BOTTOM (TO MASONRY)			CEILING & FLOOR MOUNTING INSTALLATION AT TOP OR BOTTOM (TO CONCRETE)		
	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3
FROM 40.0 TO 62.5	9"	9"	9"	9"	8"	6 1/2"	9"	6"	4 1/2"
	9"	9"	9"	9"	5 1/2"	4 1/2"	9"	8"	6 1/2"
FROM 62.6 TO 75.0	9"	9"	8"	9"	6 1/2"	6"	8 1/2"	5"	4 1/2"
	9"	9"	6"	8"	4 1/2"	4"	9"	6 1/2"	6"
FROM 75.1 TO 92.5	9"	7"	7"	9"	5 1/2"	5 1/2"	6 1/2"	4"	-
	9"	9"	9"	6 1/2"	3 1/2"	3 1/2"	9"	5 1/2"	5 1/2"
FROM 92.6 TO 120.0	9"	5"	-	7"	4 1/2"	-	5"	4"	-
	9"	9"	-	5"	4"	-	7"	5 1/2"	-
FROM 120.1 TO 180.0	5"	5"	-	4 1/2"	4 1/2"	-	4"	4"	-
	9"	9"	-	-	-	-	5 1/2"	5 1/2"	-

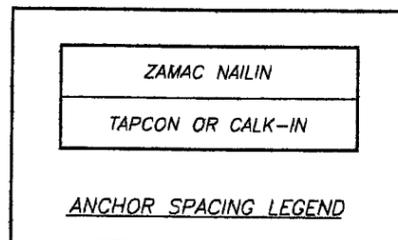
ANCHOR SPACING LEGEND

- (1) Max. ANCHOR SPCG. VALID FOR SPANS OF 5'-0" OR LESS.
- (2) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 5'-0" TO 8'-6".
- (3) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 8'-6" TO Max. ALLOWED.

NOTES ON ANCHOR SPACING SCHEDULE

- † SEE SHEET 9 & 10 OF 10 FOR ANCHOR TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS. MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACINGS SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. (Min. E. D. FOR CALK-IN IS 2 1/2"). THIS OPERATION SHALL ONLY BE PERFORMED WHEN REQUIRED SPACING RESULTS INTO A MINIMUM OF 3" O.C.

ACTUAL E. D.= EDGE DISTANCE	FACTOR	
	TAPCON / ZAMAC NAILIN	CALK-IN
3"	.86	.75
2 1/2"	.71	.50
2"	.50	-



PRODUCT RENEWED
as complying with the Florida Building Code
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Expiration Date 04/13/2012
By *Helmut A. Melcher*
Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1220.12
Expiration Date 04/13/2007
By *Helmut A. Melcher*
Miami Dade Product Control Division

F.B.C. (High Velocity Hurricane Zone)

[Signature]
DEC 13 2005

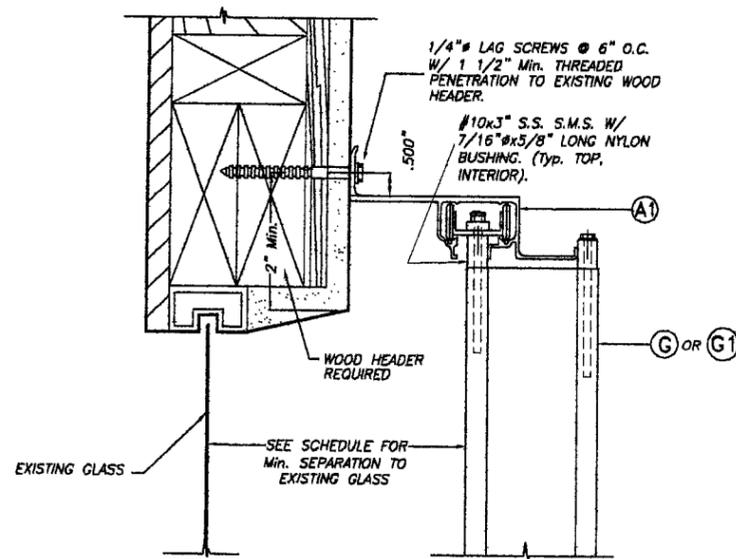
 TILECO INC. <small>TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 303, VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1330 . Fax : (305)871-1331 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</small>	ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER MIAMI DADE ALUMINUM SUPPLY, INC <small>(ASSA # 117) 1615 WEST 31 PLACE HIALEAH, FLORIDA 33012 Phone : (305)823-0089 . Fax : (305)823-2782</small>	DRAWN BY: J.V. 9/29/05 DATE 05-307 DRAWING No SHEET 8 OF 10																		
	<table border="1" style="width: 100%; font-size: small;"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 99-22</td> <td>9/29/05</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 99-22	9/29/05	3	-	-	2	-	-	4	-	-	
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INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

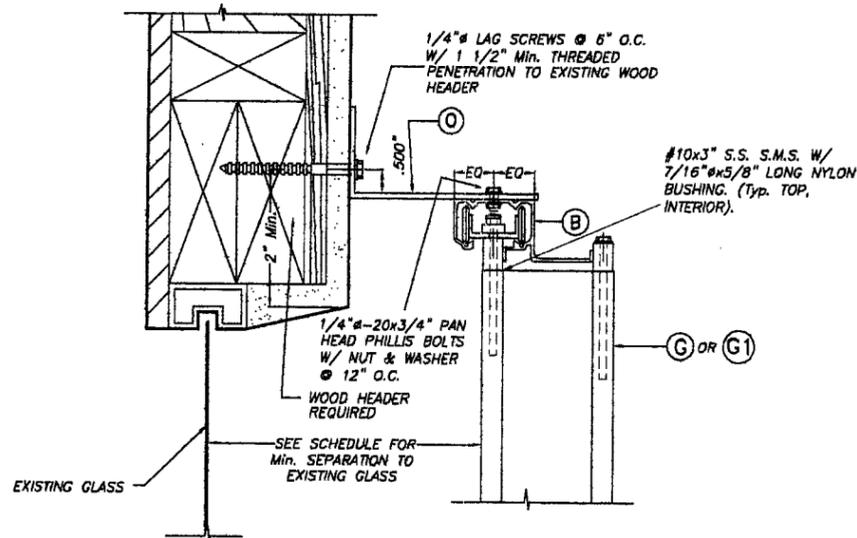
NOTES:

- INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS OR EQUAL THAN 75 p.s.f. AND 9'-0" Max. SHUTTER SPAN.
- FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

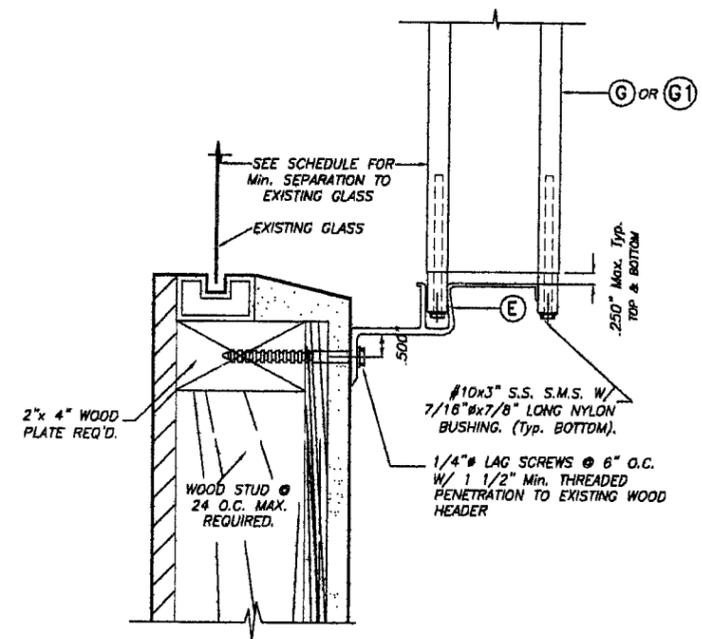
NOTE FOR COMBINATION OF SECTIONS:
WALL MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



ALTERNATIVE 1



ALTERNATIVE 2



ALTERNATIVE 3

WALL MOUNTING INSTALLATION - SECTION A

SCALE: 1/4" = 1"

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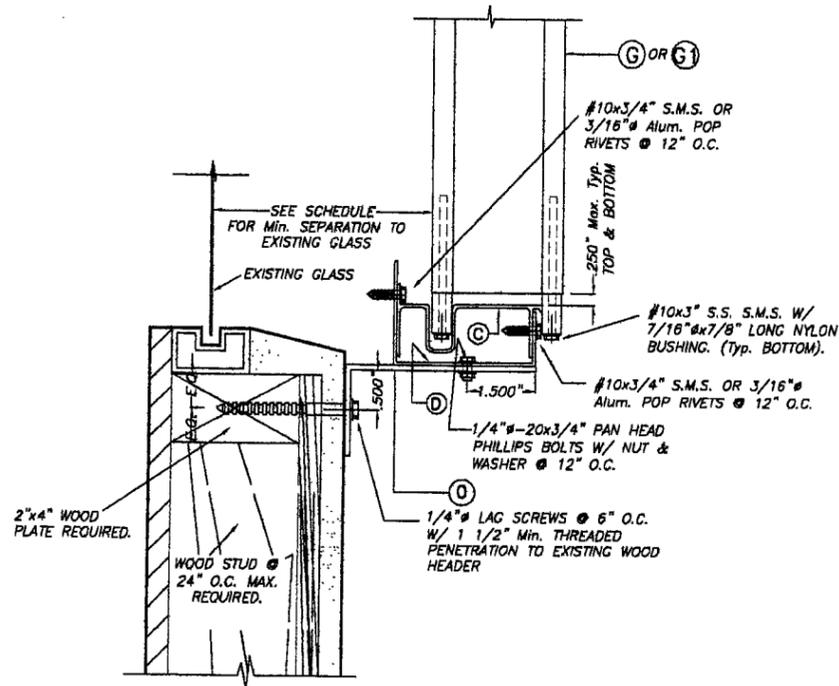
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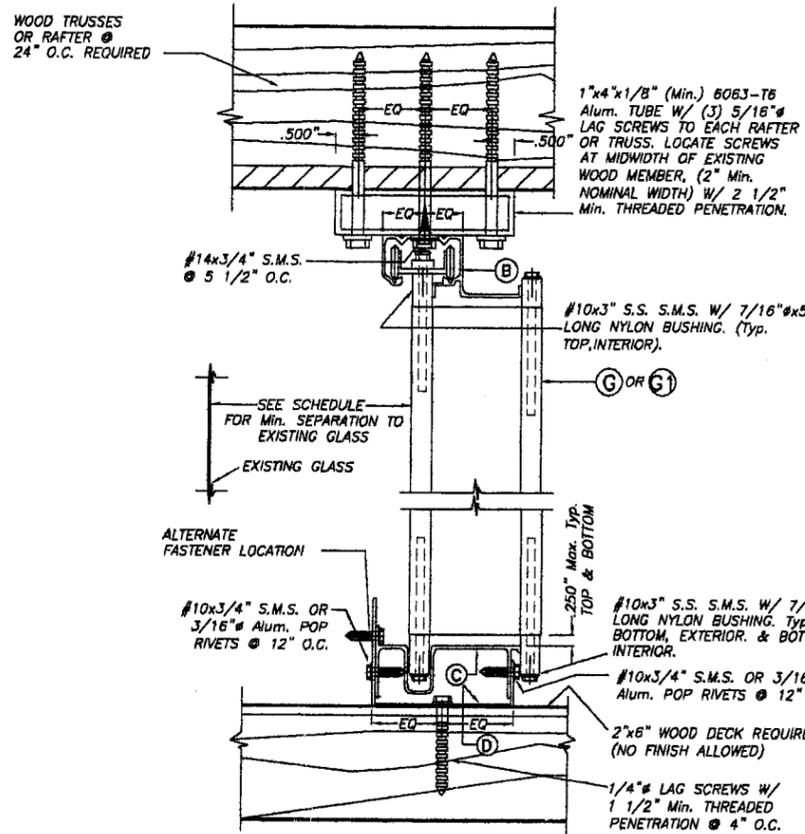
 TILTECO Inc. <small>TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</small>	MIAMI DADE ALUMINUM SUPPLY, INC <small>(ASSA # 117) 1615 WEST 31 PLACE HIALEAH, FLORIDA 33012 Phone: (305)823-0099 Fax: (305)823-2782</small>	ASSA / RESIDENTIAL BERTHA ACCORDION SHUTTER DRAWN BY: J.V. 9/29/05 DATE 05-307 DRAWING No																	
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INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



ALTERNATIVE 5

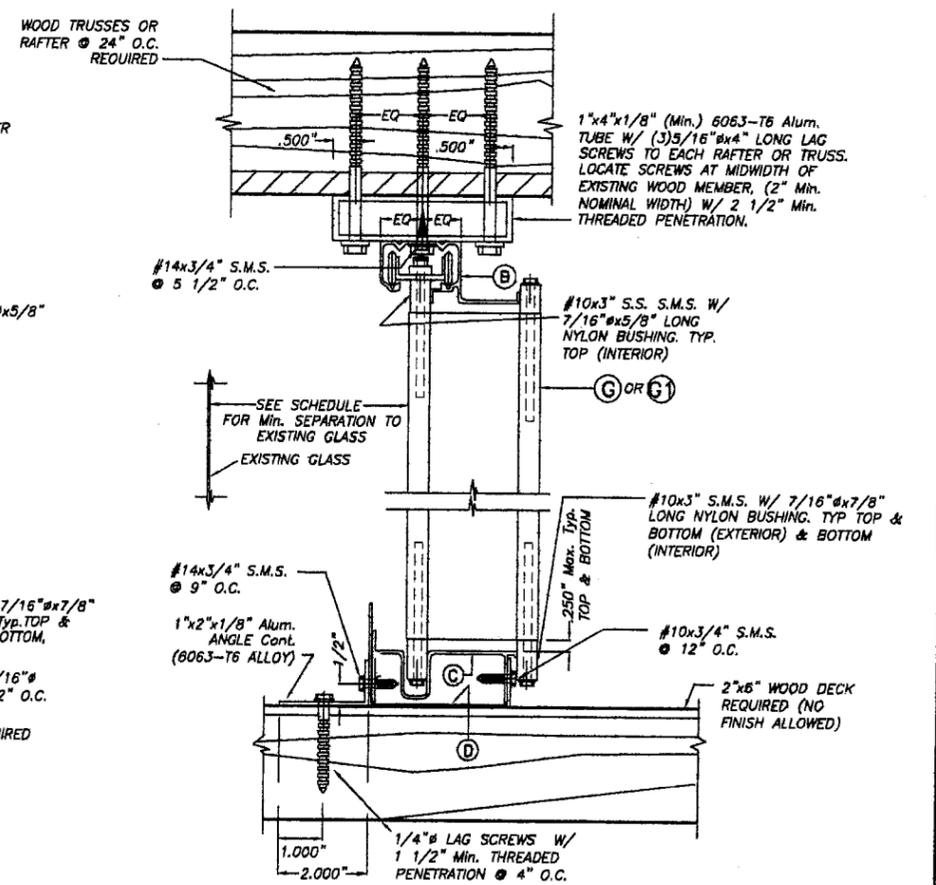
SCALE: 1/4" = 1"



CEILING & FLOOR MOUNTING INSTALLATION

- SECTION B

SCALE: 1/4" = 1"



CEILING & FLOOR MOUNTING INSTALLATION

- SECTION B1

SCALE: 1/4" = 1"

NOTE :

WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES :

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