



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

**Rolladen, Inc.**  
550 Ansin Boulevard  
Hallandale, Florida 33009

**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: Aluminum Accordion Shutter**

**APPROVAL DOCUMENT:** Drawing No. 02-22, titled "4" Blade Accordion Shutter Details", sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, dated October 29, 2002, last revision #E dated July 07, 2008, signed and sealed by Humayoun Farooq, P.E. bearing the Miami-Dade County Product Control Revision 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 revises NOA #07-0522.01 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

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



*Helmy A. Makar*  
08/21/2008

NOA No. 08-0519.04  
Expiration Date: 05/06/2009  
Approval Date: 08/21/2008

**Rolladen, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-0616.02**

**A. DRAWINGS**

1. *Drawing No. 02-22, titled ( 4" Blade Accordion Shutter Details ), sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, dated October 29, 2002, last revision #B dated March 23, 2004, signed and sealed by Humayoun Farooq, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact & Cyclic Wind Pressure Test of "Accordion Shutter", prepared by Hurricane Engineering & Testing Inc., Report No. HETI-02-1239, dated July 24, 2002, signed and sealed by Rafael E. Droz-Seda, P.E.*
2. *Test report on Uniform Static Air Pressure Test of "Accordion Shutter", prepared by Hurricane Engineering & Testing Inc., Report No. HETI-02-1240, dated July 24, 2002, signed and sealed by Rafael E. Droz-Seda, P.E.*

**C. CALCULATIONS**

1. *Comparative analysis and Anchor calculation, dated April 14, 2003, Sheets L1, L2, D1- D2, R1, A1 – A29, and AS1 –AS9, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E. on June 03, 2003.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *Certified Tensile Test Report from Hurricane Engineering & Testing Inc., Report No. HETI-02-T052, dated August 22, 2002, signed and sealed by Rafael E. Droz-Seda, P.E.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0522.01**

**A. DRAWINGS**

1. *Drawing No. 02-22, titled " 4" Blade Accordion Shutter Details ", sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, dated October 29, 2002, last revision #C dated July 27, 2006, signed and sealed by Humayoun Farooq, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *Anchor calculation, dated May 04, 2007, 55 Sheets, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E. on May 04, 2007.*



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

Product Control Examiner

NOA No. 08-0519.04

Expiration Date: 05/06/2009

Approval Date: 08/21/2008

**Rolladen, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**3. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 02-22, titled " 4" Blade Accordion Shutter Details ", sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, dated October 29, 2002, last revision #E dated July 07, 2008, signed and sealed by Humayoun Farooq, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact & Cyclic Wind Pressure Test of "Accordion Shutter", prepared by Hurricane Engineering & Testing Inc., Report No. HETI-08-2001, dated JANUARY 18, 2008, signed and sealed by Candido F. Font, P.E.*
2. *Test report on Uniform Static Air Pressure Test of "Accordion Shutter", prepared by Hurricane Engineering & Testing Inc., Report No. HETI-08-2000, dated January 18, 2008, signed and sealed by Candido F. Font, P.E.*

**C. CALCULATIONS**

1. *Anchor calculation, dated May 07, 2008, 48 Sheets, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E. on May 07, 2008.*
2. *Revised anchor calculation, dated July 15, 2008, 62 Sheets, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E. on July 15, 2008.*

**D. QUALITY ASSURANCE**

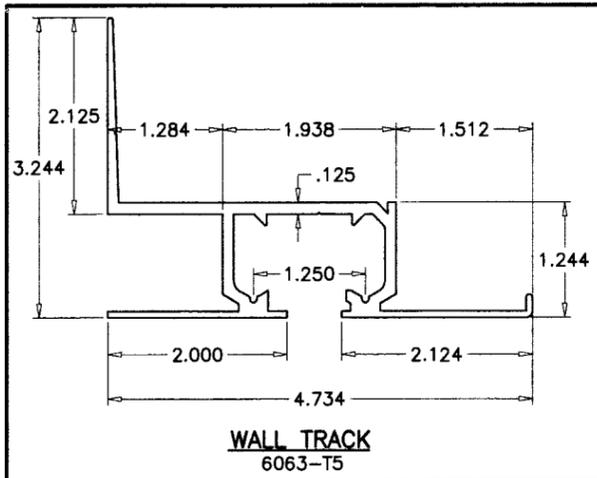
1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

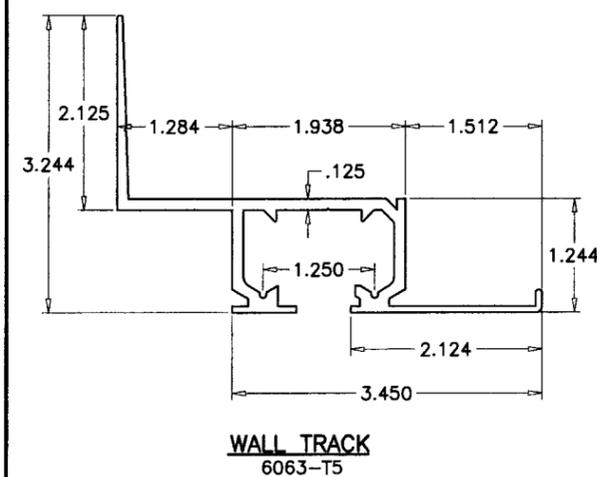
1. *Certified Tensile Test Report from Hurricane Engineering & Testing Inc., Report No. HETI-08-T100, dated January 21, 2008, signed and sealed by Candido F. Font, P.E.*
2. *Certified Tensile Test Report from Hurricane Engineering & Testing Inc., Report No. HETI-08-T101, dated January 21, 2008, signed and sealed by Candido F. Font, P.E.*



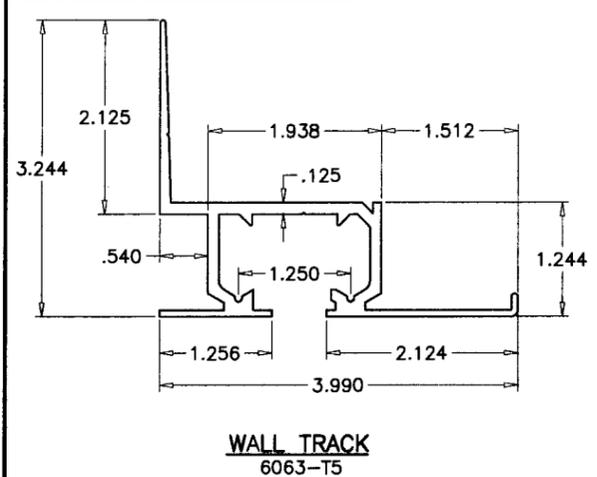
Helmy A. Makar, P.E., M.S.  
Product Control Examiner  
NOA No. 08-0519.04  
Expiration Date: 05/06/2009  
Approval Date: 08/21/2008



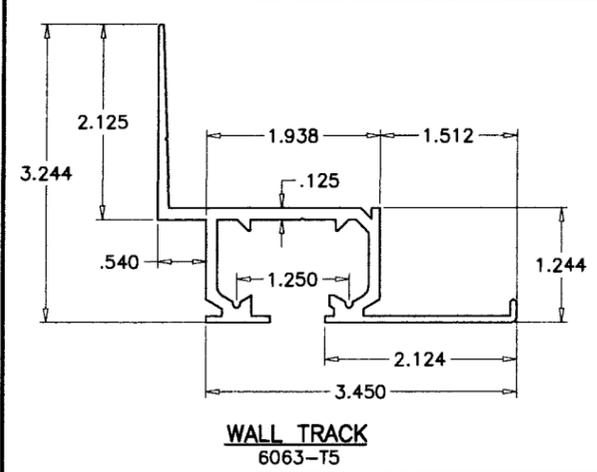
**WALL TRACK**  
6063-T5



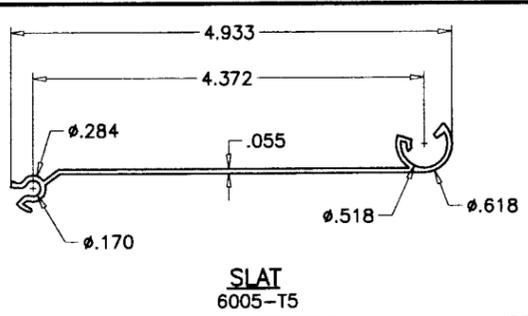
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6063-T5



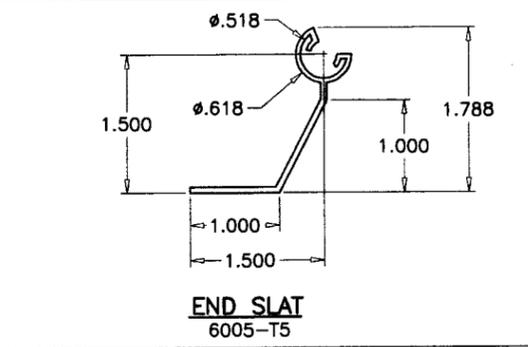
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6063-T5



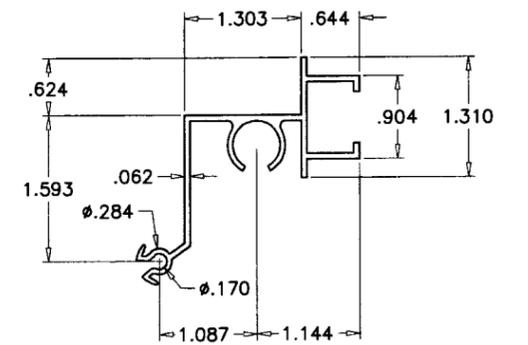
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6063-T5



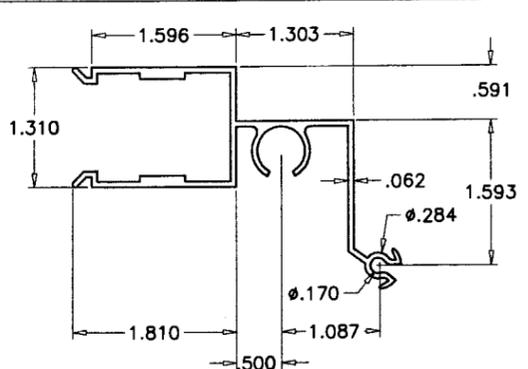
**SLAT**  
6005-T5



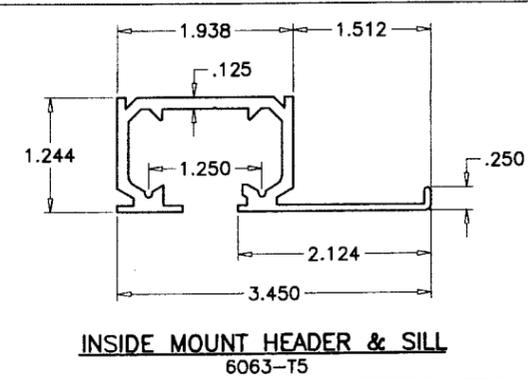
**END SLAT**  
6005-T5



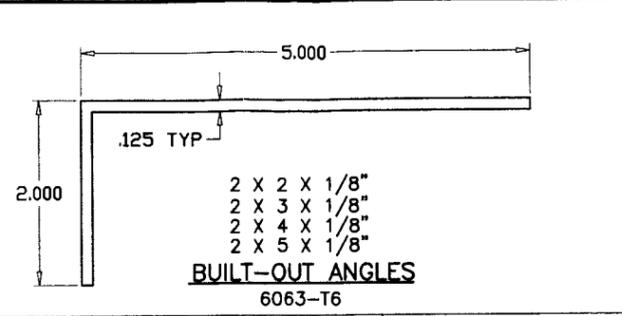
**MALE LOCKING SLAT**  
6063-T5



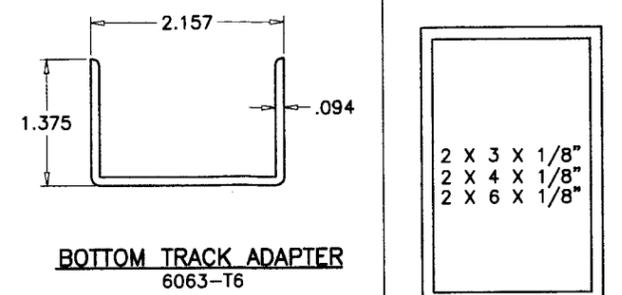
**FEMALE LOCKING SLAT**  
6063-T5



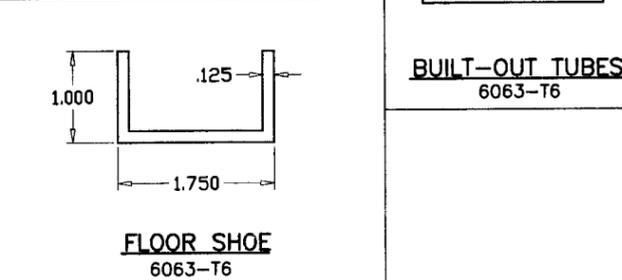
**INSIDE MOUNT HEADER & SILL**  
6063-T5



**BUILT-OUT ANGLES**  
6063-T6



**BOTTOM TRACK ADAPTER**  
6063-T6



**FLOOR SHOE**  
6063-T6

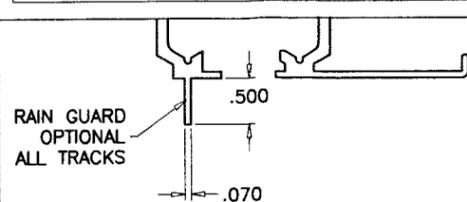


**BUILT-OUT TUBES**  
6063-T6

**TYPICAL ANCHORS:**

- ANCHOR (A) = **1/4" DIA. ULTRACON** (BY ELCO)  
1-3/4" EMBEDMENT INTO 3000 PSI CONC.  
1-1/4" EMBEDMENT INTO C-90 BLOCK
  - ANCHOR (D) = **1/4" RAWL CALK-IN**  
TOTAL ANCHOR BODY INTO 3000 PSI CONC.  
OR C-90 BLOCK
  - ANCHOR (E) = **1/4" DIA. LAG SCREWS**  
1-1/2" MIN PENETRATION INTO WOOD(S.G.=0.55)
  - ANCHOR (G) = **1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS**  
INTO METAL STRUCTURES  
(STEEL OR ALUMINUM 1/8" MIN. THICK.)
- NOTE: ANCHORS EMBEDMENT SHOWN IS BEYOND WALL & FLOOR COVERINGS (STUCCO, TILES, ETC.)

FOR INSTALLATION DETAILS SEE SHEETS 2 THRU 5.



RAIN GUARD  
OPTIONAL  
ALL TRACKS

MAXIMUM DESIGN LOAD RATING = + 69.0 PSF  
(SLAT SPANS 96" OR SMALLER) - 92.0 PSF

MAXIMUM DESIGN LOAD RATING = + 52.0 PSF  
(SLAT SPANS 120" OR SMALLER) - 72.0 PSF

**PRODUCT MARKING**

A PERMANENT LABEL SHALL BE AFFIXED ON LOCKING MEMBER OF UNIT ABOVE LOCK WITH THE FOLLOWING STATEMENT.

ROLLADEN INC., MIAMI, FL.

"MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED"

**GENERAL NOTES**

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE.
2. DESIGN CRITERIA FOR ALUMINUM, MINIMUM MECHANICAL PROPERTIES, AND SAFETY FACTORS ARE IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL" LATEST EDITION.
3. ALUMINUM ALLOYS: ALL EXTRUSIONS SHALL BE ALLOY AS SHOWN.
4. STEEL SURFACES TO BE PLACED IN CONTACT WITH ALUMINUM SHALL BE GIVEN ONE COAT OF ZINC CHROMATE PRIMER IN ACCORDANCE WITH FEDERAL SPEC. NO. TTP-645, OR BE GALVANIZED.
5. ANCHORS SHALL BE AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. ALL BOLTS SHALL BE STAINLESS STEEL, ALUMINUM ALLOY 2024-T4 OR 7075-T6, OR PLATED STEEL. WING NUTS TO BE OF ZINC ALLOY.
7. DESIGN CRITERIA FOR SLATS: MAX DEFLECTION  $\leq L/30$  OR 2".
8. ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
9. A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-02/04.

**FASTENER SPACING IN MASONRY**

CHARTS ARE BASED ON TYPICAL EDGE DISTANCE = 12d.  
FOR LESSER EDGE DISTANCE DECREASE SPACING BY MULTIPLYING WITH THE FACTOR BELOW

EDGE DIST.	12d=3"	10d=2-1/2"	8d=2"	6d=1-1/2"	5d=1-1/4"
FACTOR	1.00	0.86	0.71	0.57	0.50

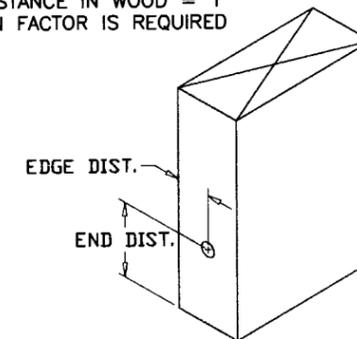
EXAMPLE: FOR 3" EDGE DIST. SPACING = 12" O.C. (FROM CHART)  
FOR 2" EDGE DIST. SPACING = 12 X .71 = 8.5 O.C.

TYPICAL EDGE DISTANCE IN WOOD = 3/4"  
TYPICAL END DISTANCE IN WOOD = 1"  
NO REDUCTION FACTOR IS REQUIRED

**PRODUCT REVISED**

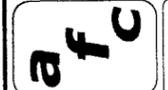
as complying with the Florida Building Code  
Acceptance No. 08-0519.04  
Expiration Date 05/06/2009

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



Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 18557  
C.A.N. 3538

JUL 15 2008



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978

4" BLADE ACCORDION SHUTTER DETAILS

**ROLLADEN INC.**  
550 ANSIN BLVD.  
HALLANDALE, FL. 33009  
TEL. (954) 757-8591 FAX. (954) 454-1577

no	date	description	REV. PER BCCO COMMENTS	NO CHANGE THIS SHEET	UPDATED FOR 2004 FBC	ANCHORS/SPAN REV.	REV. PER BCCO COMMENTS
A	02.14.04						
B	03.23.04						
C	07.27.06						
D	05.05.08						
E	07.07.08						

date: 10-29-02  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**02-22**

sheet 1 of 5

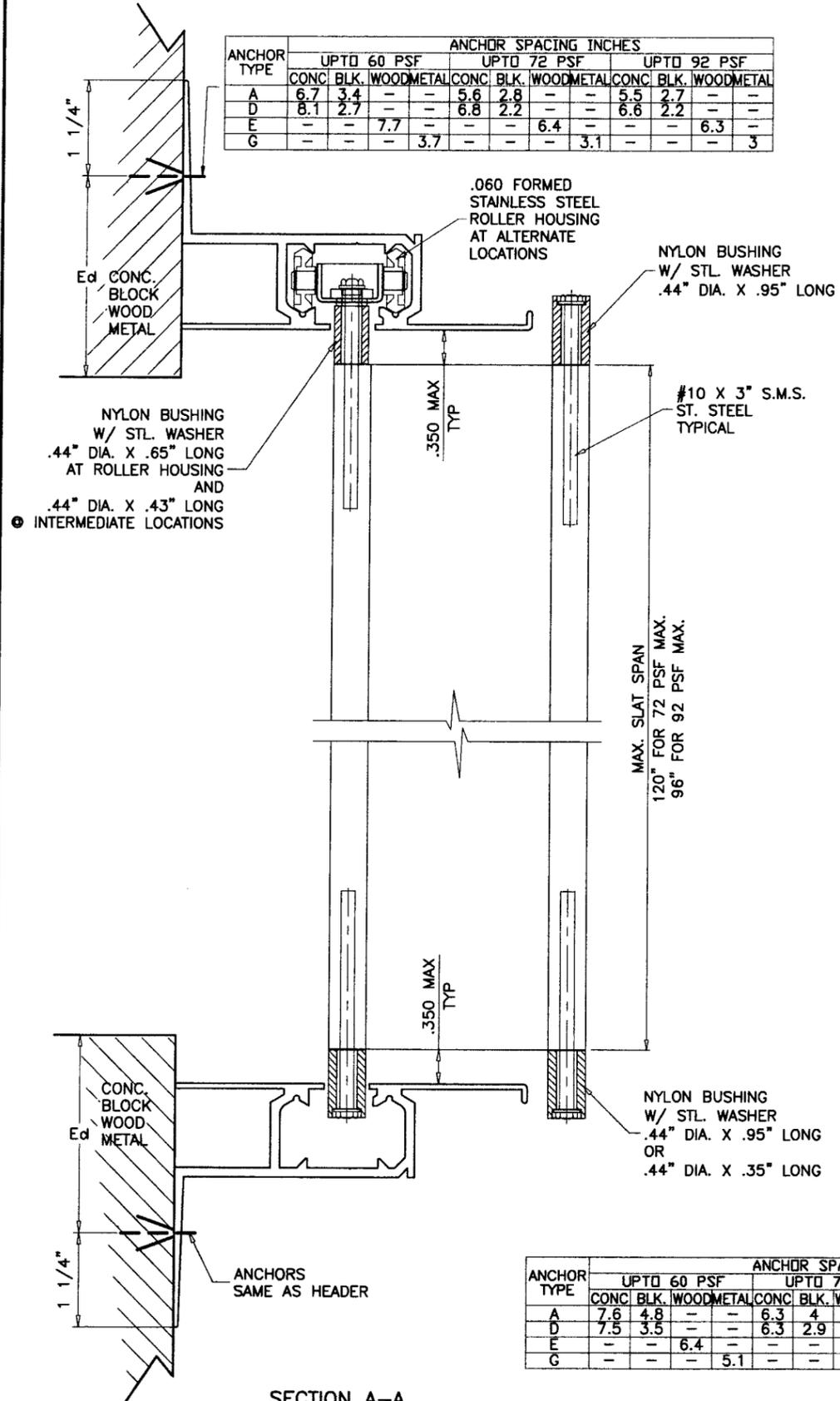
ACCORDION/02-22RNI

**WALL MOUNTS**

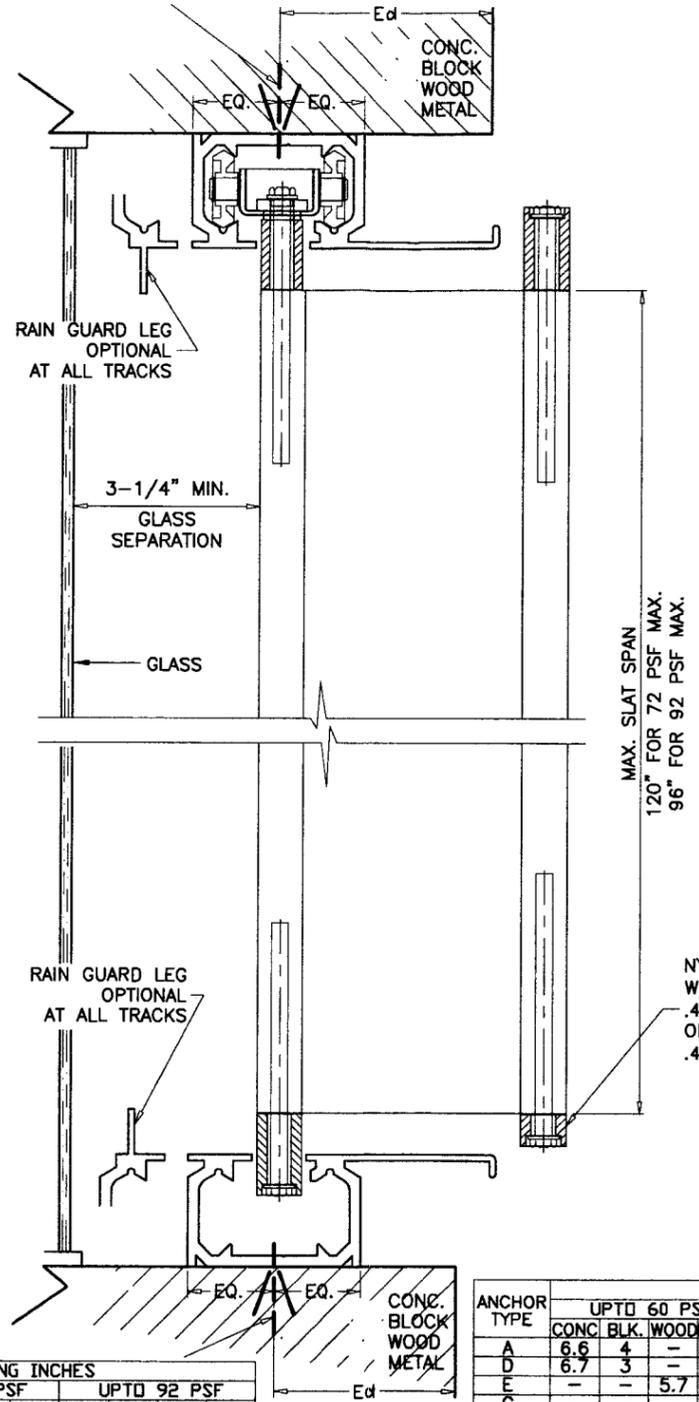
**INSIDE MOUNTS**

ANCHOR TYPE	ANCHOR SPACING INCHES								
	UPTD 60 PSF			UPTD 72 PSF			UPTD 92 PSF		
	CONC.	BLK.	WOODMETAL	CONC.	BLK.	WOODMETAL	CONC.	BLK.	WOODMETAL
A	6.7	3.4	-	5.6	2.8	-	5.5	2.7	-
D	8.1	2.7	-	6.8	2.2	-	6.6	2.2	-
E	-	-	7.7	-	-	6.4	-	-	6.3
G	-	-	-	3.7	-	-	3.1	-	-

ANCHOR TYPE	ANCHOR SPACING INCHES								
	UPTD 60 PSF			UPTD 72 PSF			UPTD 92 PSF		
	CONC.	BLK.	WOODMETAL	CONC.	BLK.	WOODMETAL	CONC.	BLK.	WOODMETAL
A	7.6	4.8	-	6.3	4	-	6.2	3.9	-
D	7.5	3.5	-	6.3	2.9	-	6.1	2.9	-
E	-	-	6.4	-	-	5.3	-	-	5.2
G	-	-	-	5.1	-	-	4.3	-	4.2



**SECTION A-A**



**SECTION B-B**

ANCHOR TYPE	ANCHOR SPACING INCHES								
	UPTD 60 PSF			UPTD 72 PSF			UPTD 92 PSF		
	CONC.	BLK.	WOODMETAL	CONC.	BLK.	WOODMETAL	CONC.	BLK.	WOODMETAL
A	7.6	4.8	-	6.3	4	-	6.2	3.9	-
D	7.5	3.5	-	6.3	2.9	-	6.1	2.9	-
E	-	-	6.4	-	-	5.3	-	-	5.2
G	-	-	-	5.1	-	-	4.3	-	4.2

ANCHOR TYPE	ANCHOR SPACING INCHES								
	UPTD 60 PSF			UPTD 72 PSF			UPTD 92 PSF		
	CONC.	BLK.	WOODMETAL	CONC.	BLK.	WOODMETAL	CONC.	BLK.	WOODMETAL
A	6.6	4	-	5.5	3.4	-	5.4	3.3	-
D	6.7	3	-	5.6	2.5	-	5.5	2.5	-
E	-	-	5.7	-	-	4.8	-	-	4.7
G	-	-	-	4.3	-	-	3.6	-	3.5

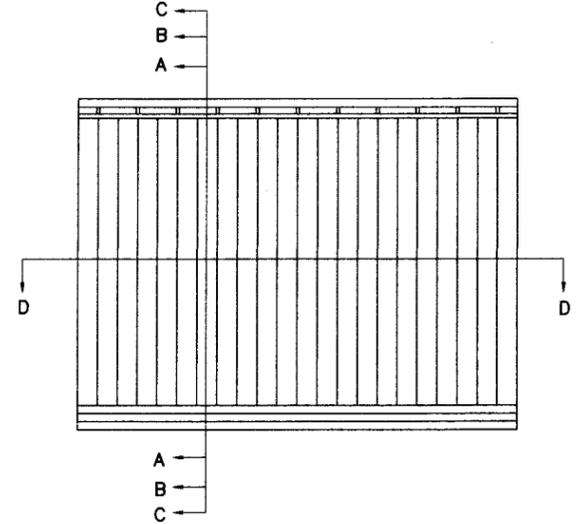
Ed = TYPICAL EDGE DISTANCE  
 CONC. & BLOCK = 12d (12 ANCHOR DIAMETERS)  
 WOOD = 4d  
 FOR LESSER EDGE DISTANCES SEE SHEET 1 OF 5.

ANCHORS: EMBEDMENT & EDGE DISTANCES SHOWN ARE BEYOND THE WALL & FLOOR COVERING (STUCCO, TILES, ETC.)  
 HEADER AND SILL DETAILS CAN BE USED IN ANY COMBINATIONS.

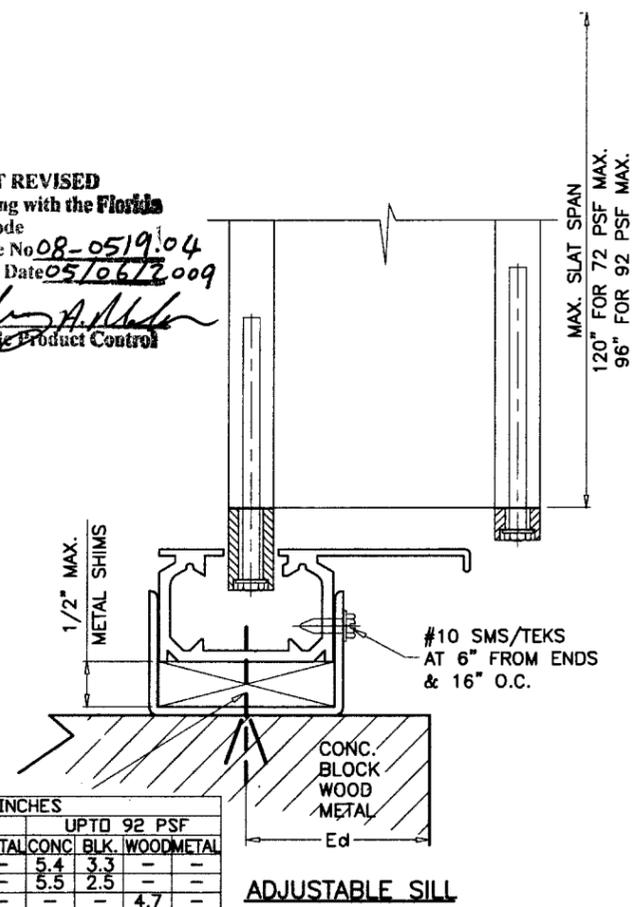
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 08-0519.04  
 Expiration Date 05/06/2009  
 By *Helena A. Alford*  
 Miami Dade Product Control Division

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538

JUL 15 2008



**TYPICAL ELEVATION**



**ADJUSTABLE SILL**

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEET 1 OF 5.  
 FOR WOOD INSTALLATIONS SEE SHEET 5.

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 ACCORDION/02-22RNI

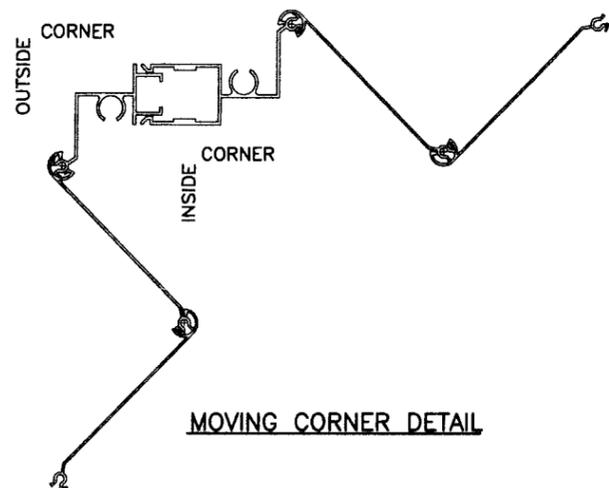
**4" BLADE ACCORDION SHUTTER DETAILS**  
**ROLLADEN INC.**  
 550 ANSIN BLVD.  
 HALLANDALE, FL. 33009  
 TEL. (954) 757-8591 FAX. (954) 454-1577

Revisions:

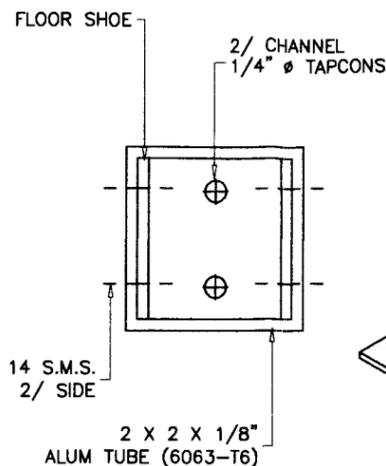
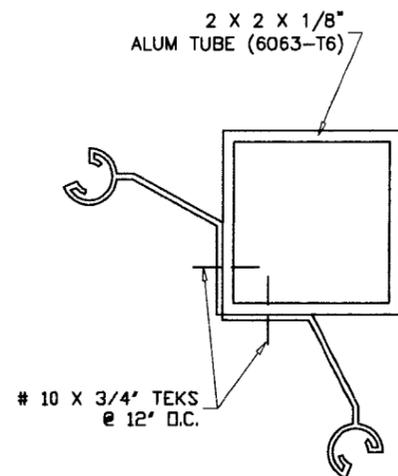
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A	02.14.04	REV. PER BCCO COMMENTS	
B	03.23.04	NO CHANGE THIS SHEET	
C	07.27.06	UPDATED FOR 2004 FBC	
D	05.05.08	ANCHORS/SPAN REV.	
E	07.07.08	REV. PER BCCO COMMENTS	

date: 10-29-02  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 ch. by:  
 drawing no. **02-22**  
 sheet 2 of 5

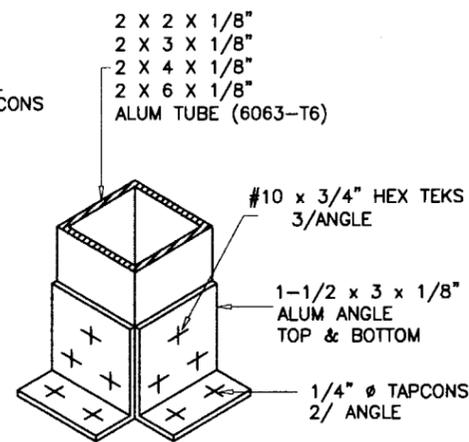




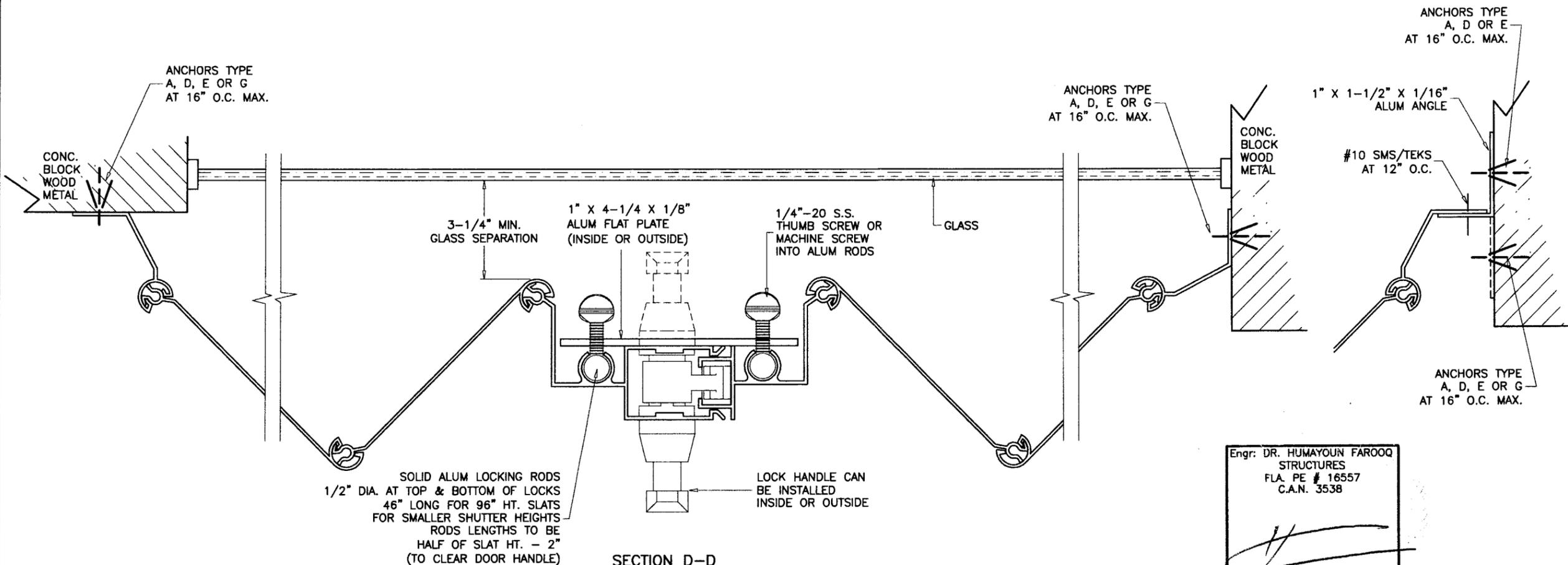
MOVING CORNER DETAIL



FIXED CORNER DETAIL



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 08-0519.04  
Expiration Date 05/06/2009  
By *Halley A. Miller*  
Miami Dade Product Control  
Division



SECTION D-D

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

*[Signature]*

JUL 15 2008

**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
ACCORDION/02-22RNI

4" BLADE ACCORDION SHUTTER DETAILS

**ROLLADEN INC.**  
550 ANSIN BLVD.  
HALLANDALE, FL. 33009  
TEL. (954) 757-8591 FAX. (954) 454-1577

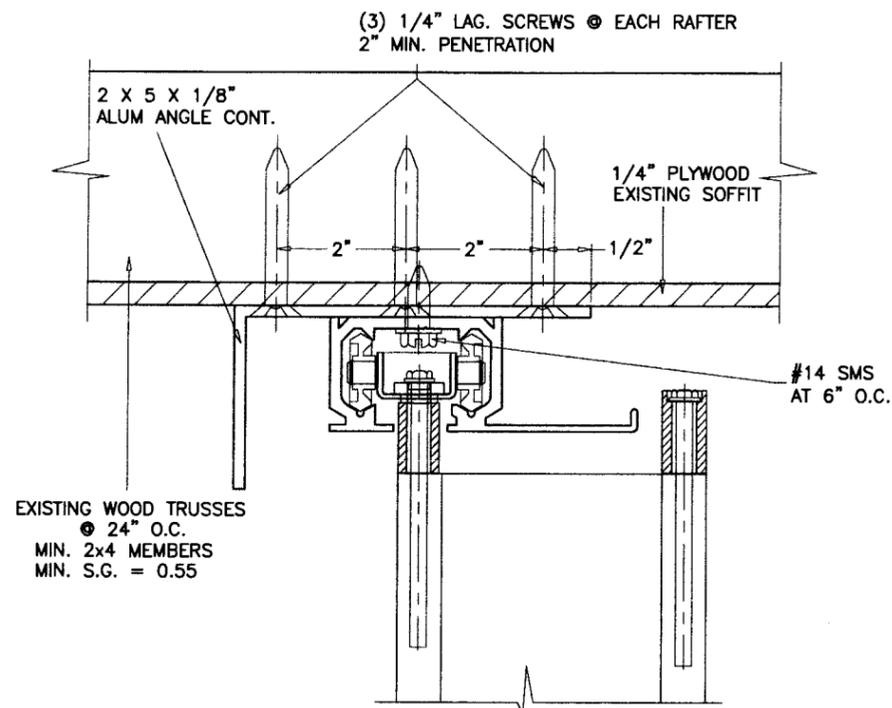
revisions:

no	date	description
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D	05.05.08	NO CHANGE THIS SHEET
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date: 10-29-02  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

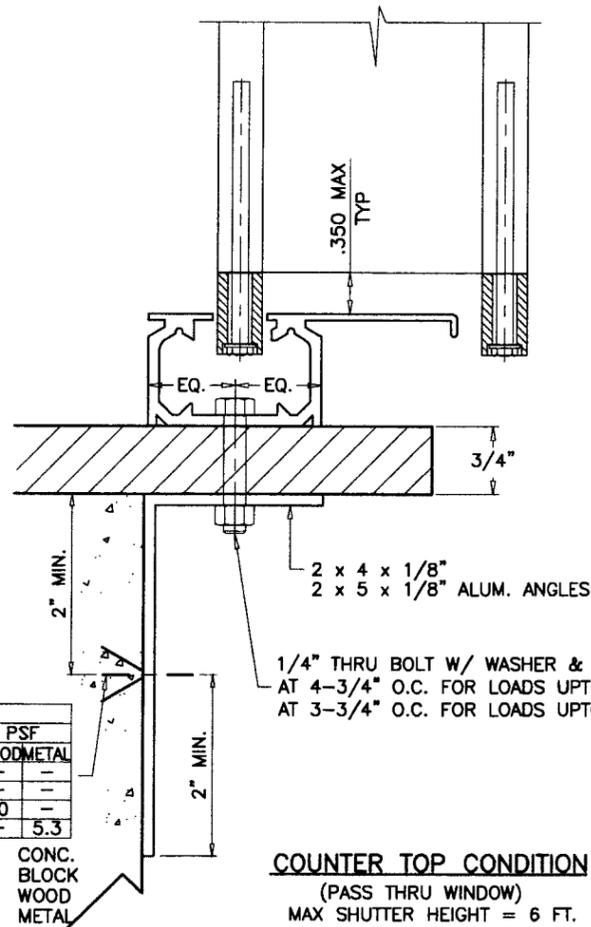
drawing no.  
**02-22**

sheet 4 of 5



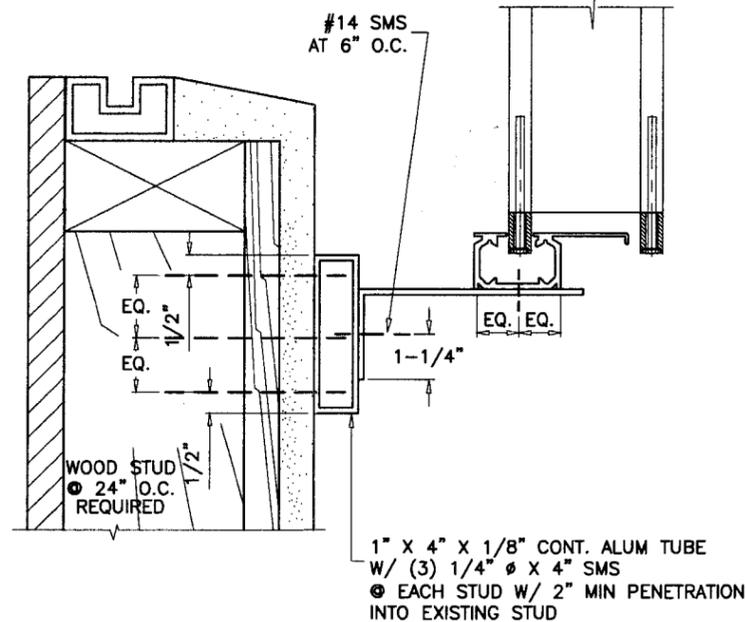
**HEADER CONNECTION TO WOOD TRUSSES**

FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 40 PSF  
 FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 46 PSF  
 FOR SHUTTER HEIGHT OF 84" MAX. DESIGN LOAD = 52 PSF  
 FOR SHUTTER HEIGHT OF 72" MAX. DESIGN LOAD = 61 PSF



**COUNTER TOP CONDITION**  
 (PASS THRU WINDOW)  
 MAX SHUTTER HEIGHT = 6 FT.

ANCHOR TYPE	ANCHOR SPACING INCHES					
	UPTD 60 PSF			UPTD 76 PSF		
	CONC	BLK	WOODMETAL	CONC	BLK	WOODMETAL
A	9.8	4.9	-	7.7	3.9	-
D	10	3.9	-	9.3	3.1	-
E	-	-	10	-	-	10
G	-	-	6.7	-	-	5.3



FOR SHUTTER HEIGHT OF 120" MAX. DESIGN LOAD = 36 PSF  
 FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 40 PSF  
 FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 46 PSF  
 FOR SHUTTER HEIGHT OF 84" MAX. DESIGN LOAD = 52 PSF

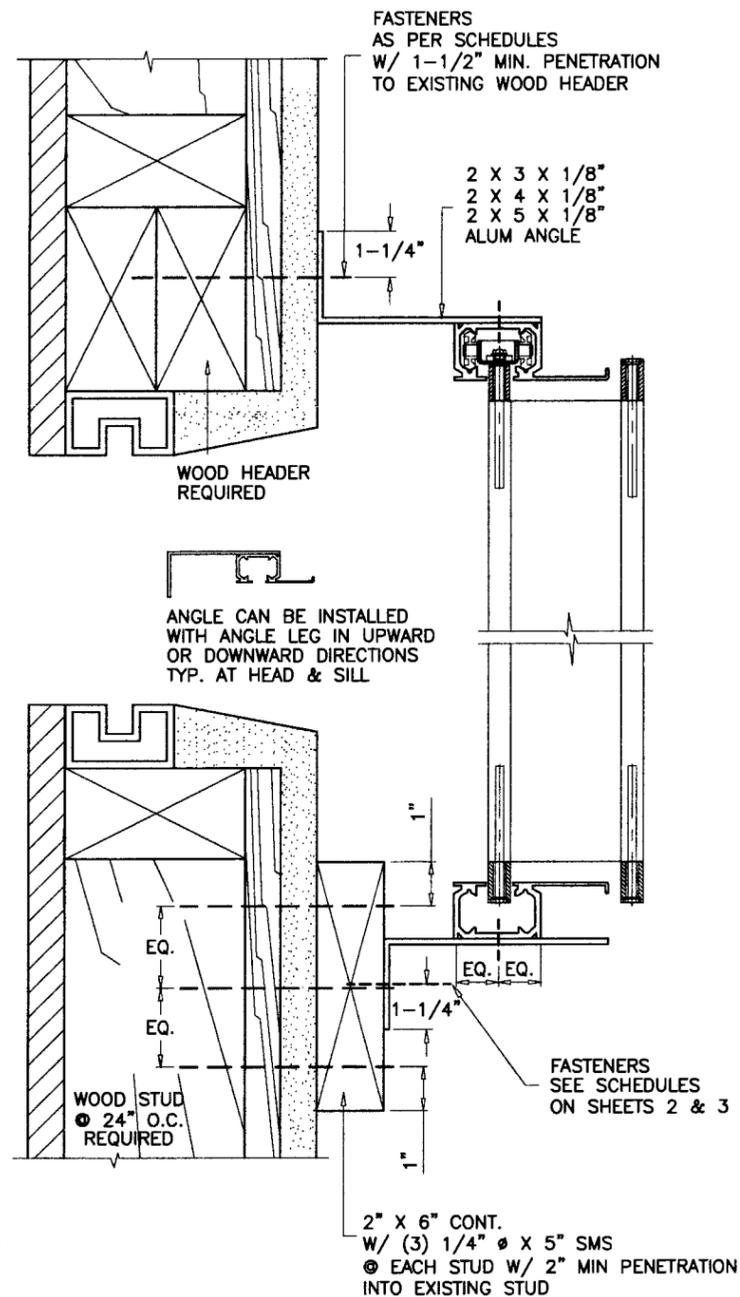
**INSTALLATION DETAIL ON EXISTING WOOD BUCKS** SCALE: 1/4"=1"

ABOVE DETAILS SHOWS CONNECTION OF 2X6 BUCK & 1X4 ALUM TUBE TO WOOD STUDS TO PROVIDE A CONTINUOUS SURFACE FOR SHUTTER INSTALLATION.

FOR INSTALLATION DETAILS OF HEADER/SILL TO CONTINUOUS WOOD MEMBERS SEE SHEETS 2 & 3.

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 08-0519.04  
 Expiration Date 05/06/2009  
 By *Heba A. Mohr*  
 Miami Dade Product Control Division

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
 JUL 15 2008



ANGLE CAN BE INSTALLED WITH ANGLE LEG IN UPWARD OR DOWNWARD DIRECTIONS TYP. AT HEAD & SILL

FASTENERS SEE SCHEDULES ON SHEETS 2 & 3

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 ACCORDION/02-22RNI

4" BLADE ACCORDION SHUTTER DETAILS  
**ROLLADEN INC.**  
 550 ANSIN BLVD.  
 HALLANDALE, FL. 33009  
 TEL. (954) 757-8591 FAX. (954) 454-1577

revisions:

no	date	by	description
A	02.14.04	REV. PER BCCO COMMENTS	
B	03.23.04	REV. PER BCCO COMMENTS	
C	07.27.06	UPDATED FOR 2004 FBC	
D	05.05.08	ANCHORS/SPAN REV.	
E	07.07.08	REV. PER BCCO COMMENTS	

date: 10-29-02  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**02-22**  
 sheet 5 of 5