

# Village of Palmetto Bay

Building Department  
8950 SW 152 St  
Palmetto Bay, 33157  
(305) 259-1250 / fax (305) 259-1291

## Permit Application



Permit # 52006-4518

Master Permit:

JOB ADDRESS: 1905 SW 83 CT UNIT #

Cashier Validation Area

<b>1. OWNER INFORMATION</b> Owner <u>JOSE + DESORAH VAZQUEZ</u> Address <u>17925 SW 83 rd ST.</u> St <u>FL</u> Zip <u>33157</u> City <u>MIAMI</u> Driver License No./I.D. _____ Phone <u>(305) 378-1828</u> Owner-Builder <input type="checkbox"/>		<b>2. CONTRACTOR INFORMATION</b> Company Name <u>VALLEADER INC.</u> Qualifier Name <u>EMILIO GIZAN</u> Address <u>550 ANDERSON BLVD</u> St <u>FL</u> Zip <u>33001</u> City <u>HALLANDALE</u> Lic # <u>CFC 008464</u> Phone ( ) _____	
<b>3. PERMIT TYPE</b> Check only One <input checked="" type="checkbox"/> Building <input type="checkbox"/> Electrical <input type="checkbox"/> Mechanical <input type="checkbox"/> Plumbing/Gas <input type="checkbox"/> Paving/Drainage <input type="checkbox"/> Sign <input type="checkbox"/> Roofing <input type="checkbox"/> P/W		<b>4. CHANGE TO AN EXISTING PERMIT</b> Check only One <input type="checkbox"/> Change Contractor <input type="checkbox"/> Extension <input type="checkbox"/> Renewal <input type="checkbox"/> Shop Drawing <input type="checkbox"/> Trade Permit Supplmt.	
<b>6. ARCHITECT ENGINEER</b> Name <u>AL FERRARI CORP.</u> Address <u>1235 S.W. 87th Ave.</u> St <u>FL</u> Zip <u>33174</u> City <u>MIAMI</u> Discipline: _____ Reg. No. <u>16853</u> Phone1 ( ) _____ Phone2 ( ) _____ Improvement Value <u>15,649.00</u> Area <u>682 sq ft</u>		<b>5. TYPE OF IMPROVEMENT</b> Check only One <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Addition Attached <input type="checkbox"/> Addition Detached <input type="checkbox"/> Alteration Interior <input type="checkbox"/> Alteration Exterior <input type="checkbox"/> Repair/Replace <input type="checkbox"/> Repair Due to Fire <input type="checkbox"/> Demolish <input type="checkbox"/> New Construction <input type="checkbox"/> Fence <input type="checkbox"/> Driveway <input type="checkbox"/> Pool <input type="checkbox"/> Shed <input checked="" type="checkbox"/> Shutters	
<b>7. LEGAL USE/WORK</b> Folio No <u>33-5034-019-0140</u> No. of Units _____ Lot <u>4</u> Block <u>3</u> Subdivision <u>DUD CUTLER SHORES Pk/Pg</u> Current Use of Property <u>Residential</u> Description of Work <u>8 replacement shutters</u> Work Classification: <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Multi-Family <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial Code in Effect: _____ Occupancy: _____ Construction Type: _____		Signature of Qualifier _____ Print Name <u>EMILIO GIZAN</u> Clerk: _____ STATE OF FLORIDA GOVERNOR OF MIAMI-DADE Sworn to and subscribed before me this <u>11-16</u> 20 <u>05</u> Sworn to and subscribed before me this <u>11-16</u> 20 <u>05</u> Personally known <input checked="" type="checkbox"/> or I.D. <input type="checkbox"/> by <u>Alvaro Vazquez</u> (SEAL) Personally known <input checked="" type="checkbox"/> or I.D. <input type="checkbox"/>	

Application is hereby made to obtain a permit to do work and installation as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for ELECTRICAL WORK, MECHANICAL, PLUMBING, SIGNS, WELLS, POOLS, ROOFING, SHUTTERS, WINDOWS, FURNACES, BOILERS, HEATERS, TANKS, and AIR CONDITIONERS, etc. I understand that in signing this application I am responsible for the supervision and completion of the construction including scheduling of inspections and obtaining final inspections in accordance with the plans and specification **WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR ATTORNEY OR LENDER BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. OWNER/CONTRACTOR AFFRABART: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.**

Signature of Owner or Owner's Agent \_\_\_\_\_  
 Print Name Reborah VAZQUEZ Clerk: \_\_\_\_\_  
 STATE OF FLORIDA COUNTY OF MIAMI-DADE  
 Sworn to and subscribed before me this 11-16 2005  
 Sworn to and subscribed before me this 11-16 2005  
 Personally known  or I.D.  by Alvaro Vazquez (SEAL)  
 Personally known  or I.D.  by Alvaro Vazquez (SEAL)  
 Personally known  or I.D.  by Alvaro Vazquez (SEAL)

NOTICE: In addition to the requirements of this permit, there may be additional deed restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies

R	Discipline	Approved	Date	Disapproved/Date	Zoning Fees	Fees \$
	Zoning					
	Building	<input checked="" type="checkbox"/>	<u>7/19/05</u>			
	Fire	<input checked="" type="checkbox"/>				
	Structural	<input checked="" type="checkbox"/>	<u>Don Vazquez</u>			
	Electrical					
	Mechanical					
	Plumbing					
	Flood					
	Roofing					
	Plans Check-out					
1					Base Permit	<u>113.35</u>
2					Code Compliance	<u>9.60</u>
3					Impact Fees	
					State Radon	
					Code Compliance	
					Impact Fees	
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					Code Compliance	
					Impact Fees	

# Village of Palmetto Bay

Building Department  
8950 SW 152 St  
Palmetto Bay, 33157  
(305) 259-1250 / fax (305) 259-1291

## Permit Application



Clerk: 1006-4510

Master Permit: B209

Cashier Validation Area

JOB ADDRESS: 11105 SW 152 ST UNIT #

<b>1. OWNER INFORMATION</b> Owner <u>BOB &amp; DEBORAH WOODS</u> Address _____ St _____ Zip _____ City _____ St _____ Zip _____ Driver License No./I.D. _____ Owner-Builder <input type="checkbox"/> Phone ( ) _____		<b>2. CONTRACTOR INFORMATION</b> Company Name _____ Qualifier Name _____ Address _____ City _____ Phone ( ) _____ St _____ Zip _____ Lic # _____	
<b>3. PERMIT TYPE</b> Check only One <input checked="" type="checkbox"/> Building <input type="checkbox"/> Electrical <input type="checkbox"/> Mechanical <input type="checkbox"/> Plumbing/Gas <input type="checkbox"/> Paving/Drainage <input type="checkbox"/> Sign <input type="checkbox"/> Roofing <input type="checkbox"/> P/W		<b>4. CHANGE TO AN EXISTING PERMIT</b> Check only One <input type="checkbox"/> Change Contractor <input type="checkbox"/> Extension <input type="checkbox"/> Renewal <input type="checkbox"/> Shop Drawing <input type="checkbox"/> Trade Permit Supplmt.	
<b>6. ARCHITECT ENGINEER</b> Name <u>ALBERT L. GONZALEZ</u> Address _____ St _____ Zip _____ City <u>MIAMI</u> Reg. No. <u>1514-1001</u> Discipline: _____ Phone1 ( ) _____ Phone2 ( ) _____ Improvement Value <u>15,449.00</u> Area <u>182</u>		<b>5. TYPE OF IMPROVEMENT</b> Check only One <input type="checkbox"/> New Construction <input type="checkbox"/> Addition Attached <input type="checkbox"/> Addition Detached <input type="checkbox"/> Alteration Interior <input type="checkbox"/> Alteration Exterior <input type="checkbox"/> Repair/Replace <input type="checkbox"/> Repair Due to Fire <input type="checkbox"/> Demolish <input type="checkbox"/> Driveway <input type="checkbox"/> Fence <input type="checkbox"/> Pool <input type="checkbox"/> Shed <input type="checkbox"/> Shutters	
<b>7. LEGAL USE/WORK</b> Folio No <u>33-5034-014-0140</u> No. of Units _____ Lot <u>4</u> Block _____ Subdivision <u>RESIDENTIAL</u> Pk/Pg _____ Current Use of Property _____ Description of Work _____ Work Classification: _____ <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Multi-Family <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial Code in Effect: _____ Construction Type: _____ Occupancy: _____			

Application is hereby made to obtain a permit to do work and installation as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for ELECTRICAL WORK, MECHANICAL, PLUMBING, SIGNS, WELLS, POOLS, ROOFING, SHUTTERS, WINDOWS, FURNACES, BOILERS, HEATERS, TANKS, and AIR CONDITIONERS, etc. I understand that in signing this application I am responsible for the supervision and completion of the construction including scheduling of inspections and obtaining final inspections in accordance with the plans and specification WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR ATTORNEY OR LENDER BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. OWNER/CONTRACTOR AFFIDAVIT: I Certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

X Signature of Owner or Owner's Agent \_\_\_\_\_ Clerk: \_\_\_\_\_  
 Print Name ALBERT L. GONZALEZ  
 STATE OF FLORIDA COUNTY OF MIAMI-DADE  
 Sworn to and subscribed before me this 11-22 2015 by \_\_\_\_\_ (SEAL) by \_\_\_\_\_ (SEAL)  
 Personally known  or I.D. 1006-4510-52800 Personally known  or I.D. \_\_\_\_\_

NOTICE: In addition to the requirements of this permit, there may be additional deed restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies

R	Discipline	Approved	Date	Disapproved/Date	Zoning Fees	Fees \$	V
	Zoning						
	Building						
	Fire						
	Structural						
	Electrical						
	Mechanical						
	Plumbing						
	Flood						
	Roofing						
	Plans Check-out				Base Permit	115	
					State Radon		
1					Code Compliance	7760	
2					Impact Fees		
3					( ) Concurrency		
	Issuing Clerk			Date	TOTAL	17295	



Hallandale: (954) 454-4114  
Dade: (305) 757-8591  
Broward: (954) 525-3466  
Palm Beach: (561) 686-6277  
Fax: (954) 454-1577

550 ANSIN BOULEVARD • HALLANDALE, FLORIDA 33009

**Shutter Product Approval Authorization Form**

Dear City Official,

We are the Dade County Notice of Acceptance holder for the following products:

- Aluminum Accordion Type Shutters under # 03-0616.02, 03-123.07, 03-0604.03.
- Extruded Aluminum Roll Shutters under # 03-1110.04, 03-0604.02.
- Extruded Aluminum Storm Panels under # 03-0527.01.
- 0.050" Aluminum Storm Panels under # 02-0226.09.
- 20 ga. Galvanized Steel Storm Panels under # 03-519.01.
- Aluminum Hinged Colonial Shutter under # 02-0612.01.
- Polycarbonate Window glazing under # 03-0527.02.

This letter authorizes Emilio Cuzan to use any of the following:

- Aluminum Accordion Type Shutters under # 03-0616.02, 03-123.07, 03-0604.03.
- Extruded Aluminum Roll Shutters under # 02-0318.11, 03-0519.02.
- Extruded Aluminum Storm Panels under # 03-0527.01.
- 0.050" Aluminum Storm Panels under # 02-0226.09.
- 20 ga. Galvanized Steel Storm Panels under # 03-519.01.
- Aluminum Hinged Colonial Shutter under # 02-0612.01.
- Polycarbonate Window glazing under # 03-0527.02.

on the following job:

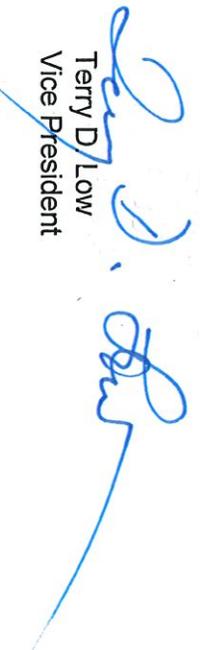
Job Owner's Name:

Deborah Vazquez

Job Address:

17925 S.W. 83<sup>rd</sup>  
Miami FL 33157

Sincerely,

  
Terry D Low  
Vice President

FROM : GEFORD 2006

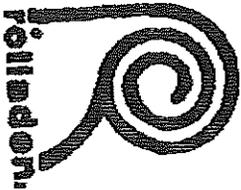
FAX NO. : 305 971 9870

Jun. 28 2006 01:39PM P2

MAR-28-1992 07:53 PM  
FROM : JEFF UNJ 2000

FAX NO. : 305 971 9870

Jun. 27 2005 09:27AM P1



CHANGE ORDER

550 ANSIN BOULEVARD  
HALLANDALE, FLORIDA 33009  
(954) 454-4114  
(954) 454-1577 FAX  
305-971-9870 FAX

Date 06-22-05

Order No. 05038385

Phone 305-378-1825

Name JOSE & DEBRA WALKER

Address 17085 SW 83RD ST

City MIRAGE, FL 33157

Increase \$ N/A

Reason \_\_\_\_\_

Decrease \$ 147.00

Reason \_\_\_\_\_

PLEASE REMOVE COLOR FROM WALKER TO WALKER  
AND CHANGE UP OPERATOR'S FEEDERS TO WALKER  
WITH REMAINS TRACK

Remarks \_\_\_\_\_

Salesman \_\_\_\_\_

Attach Contract \_\_\_\_\_

LS \_\_\_\_\_

Purchaser \_\_\_\_\_



ROLLADEN INCORPORATED

OFFICE LOCATION: \_\_\_\_\_

CUSTOMER NAME JOSEF DEBORAH VAQUEZ JOB ADDRESS FRAME

BILLING ADDRESS 17925 S.W. 83RD ST. APOWAL FL. 33157

TELEPHONE 305-378-1828

PROPERTY OWNER FRAME

OTHER PHONE 786-295-6008

We propose to furnish and install the following:

UNIT NO.	PRODUCT CODE	DOOR	WINDOW	ROOM	ACTUAL OPENING SIZE WIDTH X HEIGHT	ROLL SHUTTER OPERATION CRANK MOTOR ONLY	OPERATION MOTOR & CRANK	COLOR PROFILE	SELECTION FRAME	SPECIAL INSTRUCTIONS
1	ALCB			PATIO	128X98			WORY	WORY	
2	ALCB			"	160X98			"	"	
3	ALCB			"	163X98			"	"	
4	ALCB			"	158X98			"	"	
5	ALCB			"	129X98			"	"	
6	ALCB	✓		HALL	78X88			"	"	
7	ALCB	✓		BED ROOM	78X88			"	"	
8	ENB	✓		FRONT DOOR	60X132			PE WORY	P.E. WORY	
TOTAL										

Indicate by number counter clockwise

Omit

Front

TOTAL AMOUNT OF CONTRACT	\$ 17,076.00
DEPOSIT - 1/3 MINIMUM REQUIRED	VISA. \$ 5,692.00
1/3 DUE PRIOR TO COMMENCEMENT OF INSTALLATION	\$ 5,692.00
BALANCE TO BE PAID TO INSTALLER	\$ 5,692.00

Installation to begin in approximately 25 to 35 weeks from date of receipt of deposit. This is only an estimated time and you will be contacted to schedule the actual installation date.

Special Instruction: \_\_\_\_\_

Is electrical labor for motor and switch installation by Rolladen included in this price? YES  NO  Is high work required? YES  NO  Floor of Building: 1 I have received a copy of "Notice of Consumer Rights Under the Construction Industry Recovery Fund" as required XPN (Initials).

TERMS OF PAYMENT: **BALANCE OF PAYMENT IS DUE UPON INSTALLATION.** When Building Codes require a final building inspection or if an electrical connection by Rolladen is required, a maximum of ten percent (10%) of the contract amount may be retained pending completion. Purchaser agrees to pay a late fee equal to 1 1/2% per month on the unpaid portion of the purchase price from the date of installation by the installer to the date of payment.

OWNER OF PROPERTY? YES  NO  (If NO, fill in Owner's name and address in space provided at top of form.)

Products are to be installed on the premises situated in DADE County, State of FL. owned by Purchaser and described as: Lot 4 Block 2 Sub Division OLD BUTLER PHORES Folio # 33-5034-019-0190

CONTRACT SUBJECT TO ADDITIONAL TERMS ON REVERSE SIDE

"BUYERS RIGHT TO CANCEL"

"This is a home solicitation sale, and if you do not want the goods or services, you may cancel this agreement by providing written notice to the seller in person, by telegram, or by mail. This notice must indicate that you do not want the goods or services and must be delivered or postmarked before midnight of the third business day after you sign this agreement. If you cancel this agreement, the seller may not keep all or part of any cash down payment."

EXECUTED IN SIX COPIES, ONE COPY OF WHICH WAS DELIVERED TO, AND RECEIPT IS HEREBY ACKNOWLEDGED BY BUYER, THIS 15 DAY OF NOV 20 05

[Signature] (Salesman) [Signature] (Purchaser Sign Here)

(Accepted & Approved)

(Purchaser Sign Here)

ORDER NO. 05A 38395 CUSTOMER

Page      of

Rolladen Shutters

PERMIT

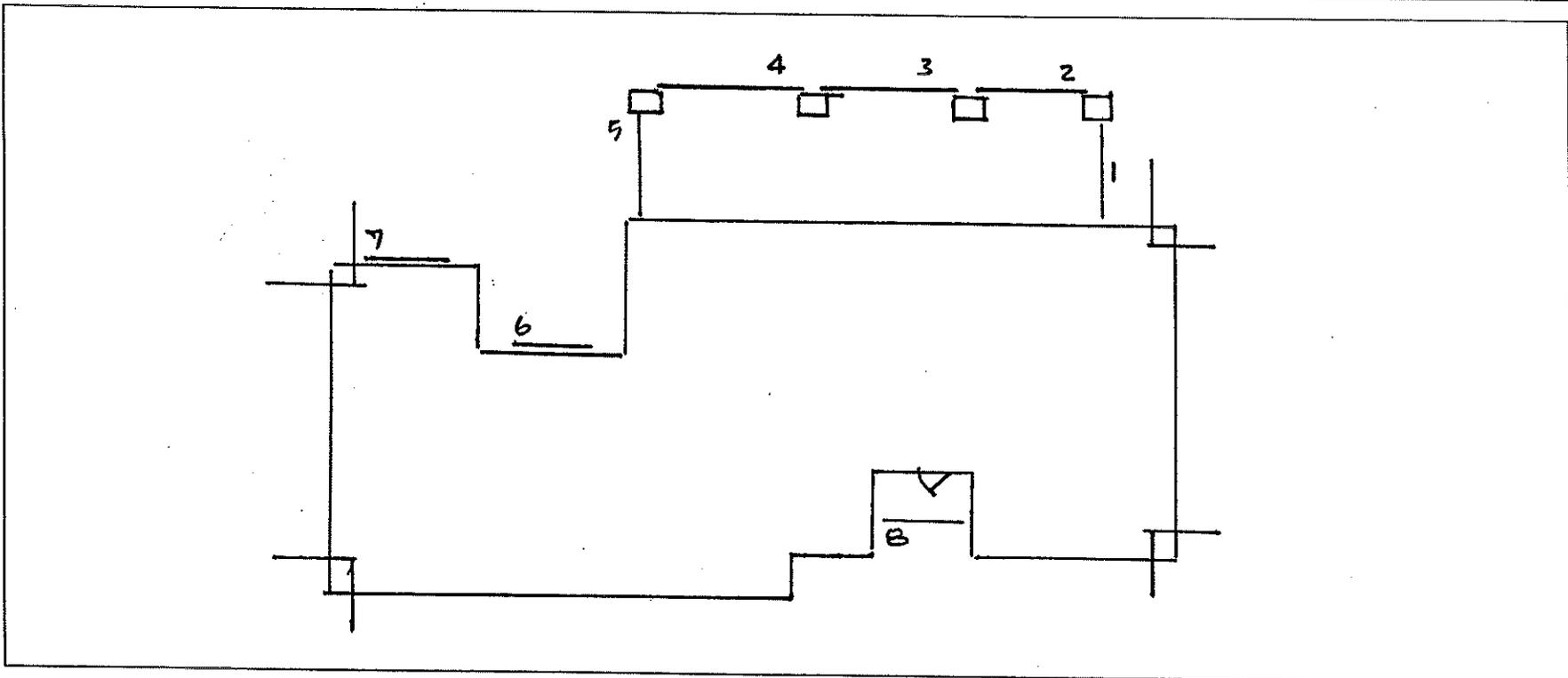
Customer: VAZQUEZ

Date: JUNE 29-06

Contract #: 05A38395  
Color: WHITE

Criteria Data	
Mean Roof Height:	<u>15'</u>
Exposure:	<u>C</u>
Roof Slope:	<u>&gt; 10°</u>
Elevation:	<u>10'</u>
End Zone:	<u>YES</u>
WIND CHART	<u>146 MPH</u>
Design Loads	
Positive	<u>46.5</u>
Negative Int. Zone:	<u>90.4</u>
Negative End Zone:	<u>62.3</u>

Shutter Schedule											
#	Width	Height	Zone	Product	Anchor	#	Width	Height	Zone	Product	Anchor
1	126	84	4	ACCB	9	11					
2	183	93	4	ACCB	9	12					
3	179	87	4	ACCB	9	13					
4	170	87	4	ACCB	9	14					
5	126	87	4	ACCB	9	15					
6	71	87	4	ACCB	9	16					
7	72	89	5	ACCB	9	17					
8	78	132	4	ACCA	4'	18					
9						19					
10						20					



ROLLADEN SHUTTERS

ACCORDIAN DIMENSIONS

CUSTOMER VASQUEZ

CONTRACT # 05A38399  
 COLOR WHITE

DATE: 6/19

① (126)

BLADES    SPLIT    BLADES  
 OFFSET: L R    STACK: L EVEN R   

A: 84 1/2

TOP TRACK C  
 BOTTOM TRACK F  
 LOCK 1/2 IN  
 REM YES  
 B.O. -  
 O.H. -

84 1/2    158 9/16    104 7/8

99

② (83)

BLADES    SPLIT    BLADES  
 OFFSET: L R    STACK: L EVEN R   

A: 95 1/2

TOP TRACK W  
 BOTTOM TRACK F  
 LOCK 1/2 IN  
 REM 60  
 B.O. 1 1/2" + 16 1/4"  
 O.H.   

9" 93    +16+    +16+

③ (179)

BLADES    SPLIT    BLADES  
 OFFSET: L R    STACK: L EVEN R   

A:   

TOP TRACK W  
 BOTTOM TRACK W  
 LOCK OUT 4  
 REM -  
 B.O. 1 1/2  
 O.H. -

87 1/2    9'    9'

④ (170)

BLADES    SPLIT    BLADES  
 OFFSET: L R    STACK: L EVEN R   

A:   

TOP TRACK W  
 BOTTOM TRACK W  
 LOCK OUT 4  
 REM -  
 B.O. 1 1/2  
 O.H. -

9" 87 1/2    +16+    5"

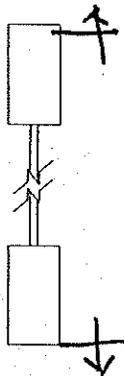
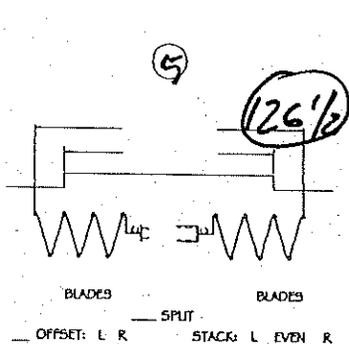
ROLLADEN SHUTTERS

ACCORDIAN DIMENSIONS

CUSTOMER VAZQUEZ

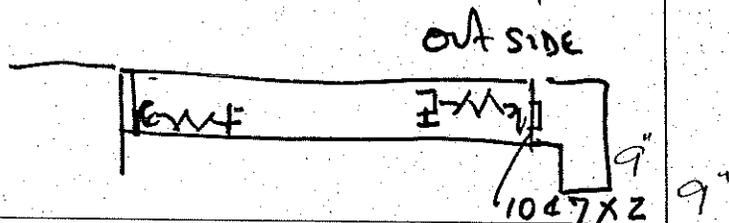
CONTRACT # 05738399  
 COLOR WHITE

DATE: 6/19

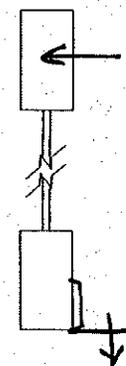
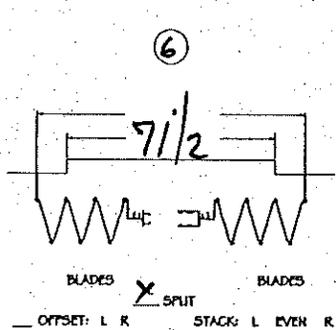


A: \_\_\_\_\_  
 TOP TRACK C  
 BOTTOM TRACK F  
 LOCK IN @  
 REM YES  
 B.O. \_\_\_\_\_  
 O.H. \_\_\_\_\_

OH: 86

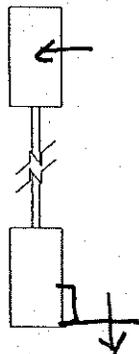
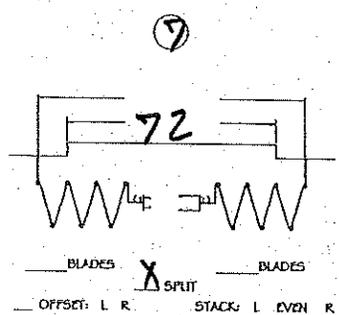


OH: 37 1/2



A: \_\_\_\_\_  
 TOP TRACK W  
 BOTTOM TRACK F/M  
 LOCK OUT @  
 REM \_\_\_\_\_  
 B.O. 2"  
 O.H. 37 1/2

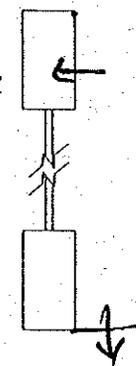
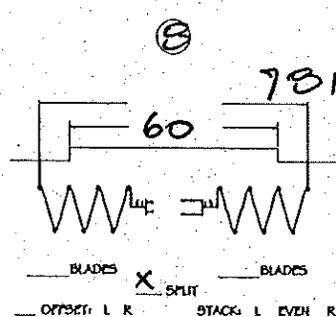
O.H. 37 1/2



A: \_\_\_\_\_  
 TOP TRACK W  
 BOTTOM TRACK F  
 LOCK OUT @  
 REM \_\_\_\_\_  
 B.O. 2"  
 O.H. \_\_\_\_\_

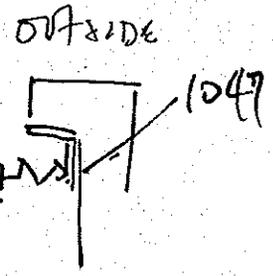
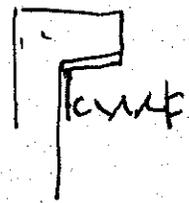
OH: 89 1/2

9" 4"



A: \_\_\_\_\_  
 TOP TRACK W  
 BOTTOM TRACK F  
 LOCK IN/OUT 52" up  
 REM YES  
 B.O. 1"  
 O.H. \_\_\_\_\_

OH: 132 1/2



ACCA

OUTSIDE

**BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH**  
 Basic Wind Speed 146mph, Importance Factor-1.0, Exposure 'C'  
**PER A.S.C.E. 7 HIGH HURRICANE ZONES**

MEAN ROOF ELEV. FEET	ROOF SLOPE > 10 DEGREES. TRIBUTARY AREA = 10 SQ. FT.			ROOF SLOPE < 10 DEGREES TRIBUTARY AREA = 10 SQ. FT.		
	ZONE	ZONE	ZONE	ZONE	ZONE	ZONE
4 & 5	4	5	4 & 5	4	5	
(+)	(-)	(-)	(+)	(-)	(-)	
=/<15	46.5	50.4	62.3	41.9	45.4	56.1
20	49.2	53.4	65.9	44.3	48.1	59.3
25	51.4	55.8	68.9	46.3	50.2	62
30	53.7	58.2	71.9	48.3	52.4	64.7
35	55.2	59.9	73.9	49.7	53.6	66.5
40	56.9	61.7	76.2	51.2	55.5	68.6
45	58.3	63.2	78.1	52.5	56.9	70.3
50	59.7	64.8	79.9	53.7	58.3	71.9
55	61	66.2	82	54.9	59.6	73.8
60	61.8	67.1	82.8	55.6	60.4	74.5

**WIND LOAD TABLES FOR WINDOWS**  
 PER A.S.C.E. 7  
 BASIC WIND SPEED: 146 MPH.

ROLLADEN SHUTTERS INC.  
 550 ANSIN BLVD.  
 HALLANDALE, FL.

JUN 23 2006

*John McHenry*

TRACY CONSULTANTS INC.  
 4660 SW 128 AVE.. SOUTHWEST  
 RANCHES, FL., 33330  
 (954) 434-5035



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)**  
 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 Accor-tion Shutter

**APPROVAL DOCUMENT:** Drawing No. 94-87, titled " Accordion Shutter Details ", sheets 1 through 4 of 4, prepared by Al-Farooq Corporation, dated October 25, 1994, last revision #C dated October 23, 2003, signed and sealed by Humayoun Farooq, P.E. bearing the Miami-Dade County Product Control Revision 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

**LABELLING:** 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 & renews NOA # 00-0609.06 and consists of this page 1, evidence submitted page(s) as well as approval document mentioned above.

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



*Helmy A. Makar*  
 11/20/03

NOA No 03-0604.03  
 Expiration Date: 09/25/2008  
 Approval Date: 11/20/2003  
 Page 1

Rolladen, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**I. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #97-0721.03**  
**A. DRAWINGS**

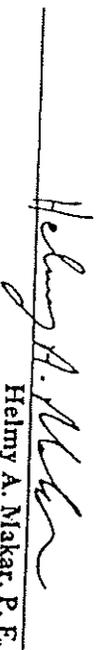
1. Drawing No. 94-83, Rolladen, Inc., "Accordion Shutter Details", Sheets 1 through 4 of 4, prepared Al-Farooq Corporation, dated October 25, 1994, Revision A dated January 26, 1995, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

1. Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of accordion shutter (95" Span), prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-94-210, dated July 25, 1994, signed and sealed by Hector M. Medina, P.E.
2. Test report on Large Missile Impact Test of "Accordion Shutter" (147.25" Span), prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-94-331i, dated October 11, 1994, signed and sealed by Hector M. Medina, P.E.
3. Test report on Large Missile Impact & Cyclic Wind Pressure Test of "Accordion Shutter" (98" Span), prepared by Hurricane Engineering & Testing Inc., Report No. HETI-94-351, dated October 24, 1994, signed and sealed by Hector M. Medina, P.E.
4. Test report on Uniform Static Air Pressure Test of "A.C.C.A." Accordion Shutter (98" Span), prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-94-300, dated July 19, 1994, signed and sealed by Arshad Vigar, P.E.
5. Test report on Uniform Static Air Pressure Test of "Accordion Shutter" (147.25" Span), prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-94-331, dated October 11, 1994, signed and sealed by Hector M. Medina, P.E.
6. Test report on Uniform Static Air Pressure Test of "Accordion Shutter" (96" Span), prepared by Hurricane Engineering Inc., Report No. HETI-94-332, dated October 12, 1994, signed and sealed by Hector M. Medina, P.E.
7. Test report on Uniform Static Air Pressure Test of "Accordion Shutter" (120" Span), prepared by Hurricane Engineering & Testing Inc., Report No. HETI-94-334, dated October 13, 1994, signed & sealed by Hector Medina, P.E.
8. Test report on Uniform Static Air Pressure Test of "Accordion Shutter" (104" Span), prepared by Hurricane Engineering & Testing Inc., Report No. HETI-94-342, dated October 19, 1994, signed and sealed by Hector M. Medina, P.E.

**C. CALCULATIONS**

1. Anchor analysis dated November 10, 1994, Sheets A-1 through A-25, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

  
Helmy A. Makar, P. E.  
Product Control Examiner  
NOA No 03-0604.03  
Expiration Date: 09/25/2008  
Approval Date: 11/20/2003

Rolladen, Inc.

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS:**

1. Anchor analysis, 41 pages, dated April 28, 2003, prepared by Al-Farooq Corp., signed and sealed by Humayoun Farooq, P.E.

**D. QUALITY ASSURANCE**

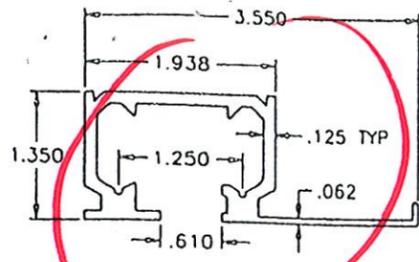
1. By Miami-Dade County Building Code Compliance Office.

**E. MATERIAL CERTIFICATION:**

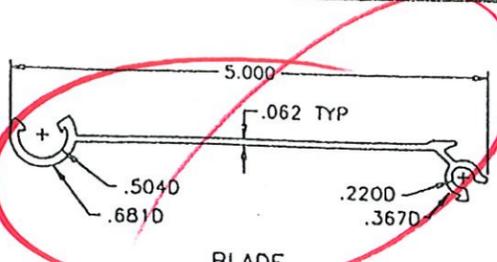
1. None.

  
Helmy A. Makar, P. E.  
Product Control Examiner  
NOA No 03-0604.03  
Expiration Date: 09/25/2008  
Approval Date: 11/20/2003

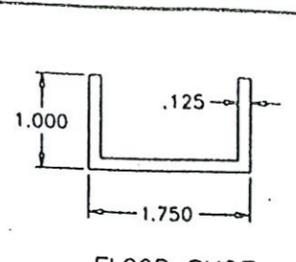




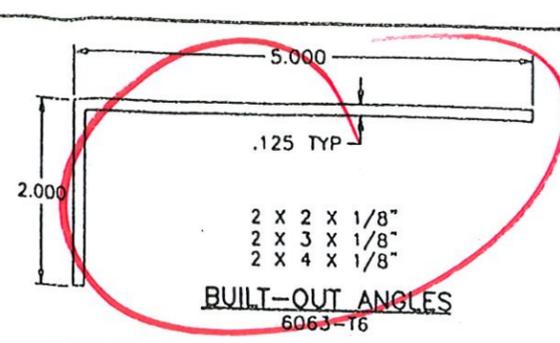
**INSIDE MOUNT HEADER & SILL**  
6063-T6  
RON-90



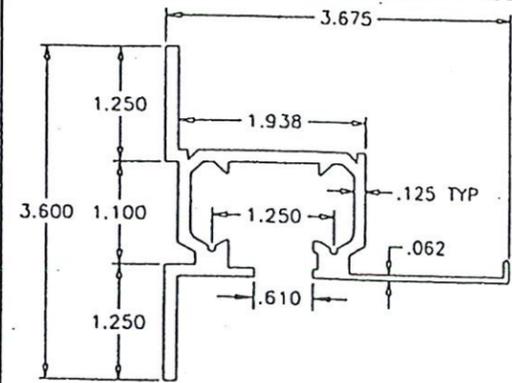
**BLADE**  
6063-T6



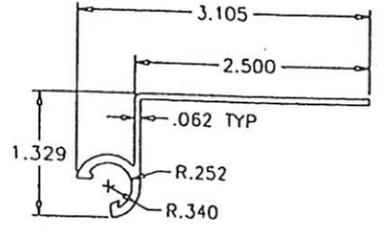
**FLOOR SHOE**  
6063-T6  
RON-1058



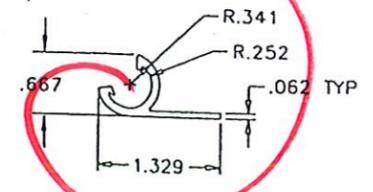
**BUILT-OUT ANGLES**  
6063-T6



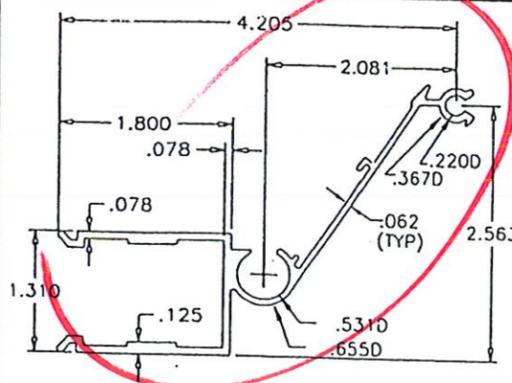
**WALL MOUNT HEADER & SILL**  
6063-T6  
RON-91



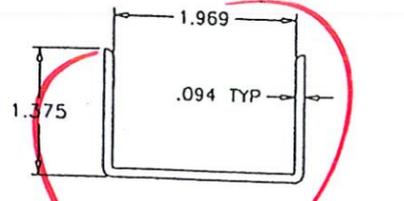
**90° END SLAT**  
6063-T6  
RON-93



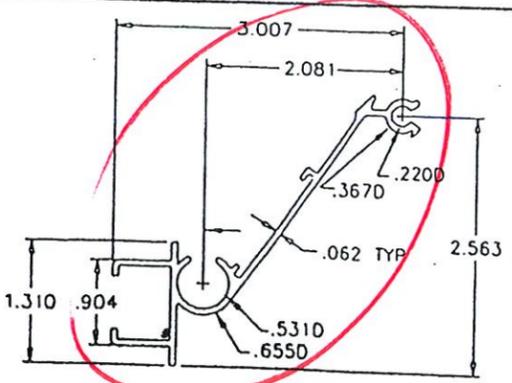
**FLAT END SLAT**  
6063-T6  
RON-94



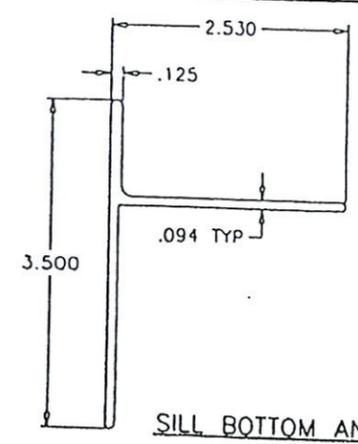
**FEMALE LOCKING SLAT**  
6063-T6  
RON-95



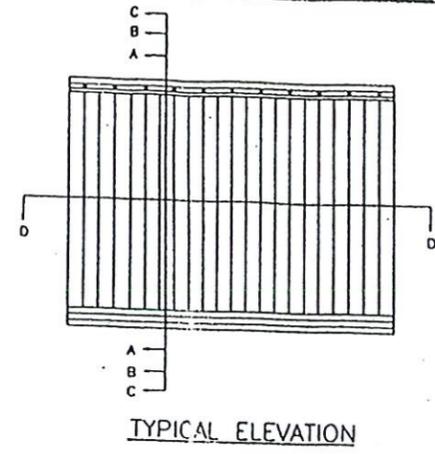
**BOTTOM TRACK ADAPTER**  
6063-T6  
RON-97



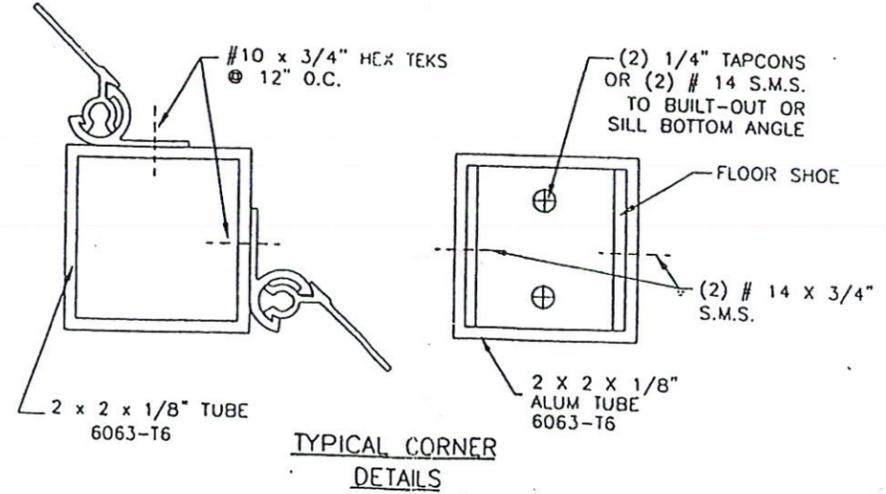
**MALE LOCKING SLAT**  
6063-T6  
RON-96



**SILL BOTTOM ANGLE**  
6063-T6  
RON-89



**TYPICAL ELEVATION**



**TYPICAL CORNER DETAILS**

**PRODUCT MARKING**

A LABEL SHALL BE AFFIXED ON LOCKING MEMBER OF UNIT ABOVE THE LOCK WITH THE FOLLOWING STATEMENT.  
ROLLADEN INC. HALLANDALE, FL.  
A.C.C.A. ACCORDION SHUTTER  
"DADE COUNTY PRODUCT CONTROL APPROVED"

THIS PRODUCT PASSED LARGE MISSILE IMPACT TEST AND WAS CYCLED TO DESIGN PRESSURE RATING = + 112 PSF, - 217 PSF,

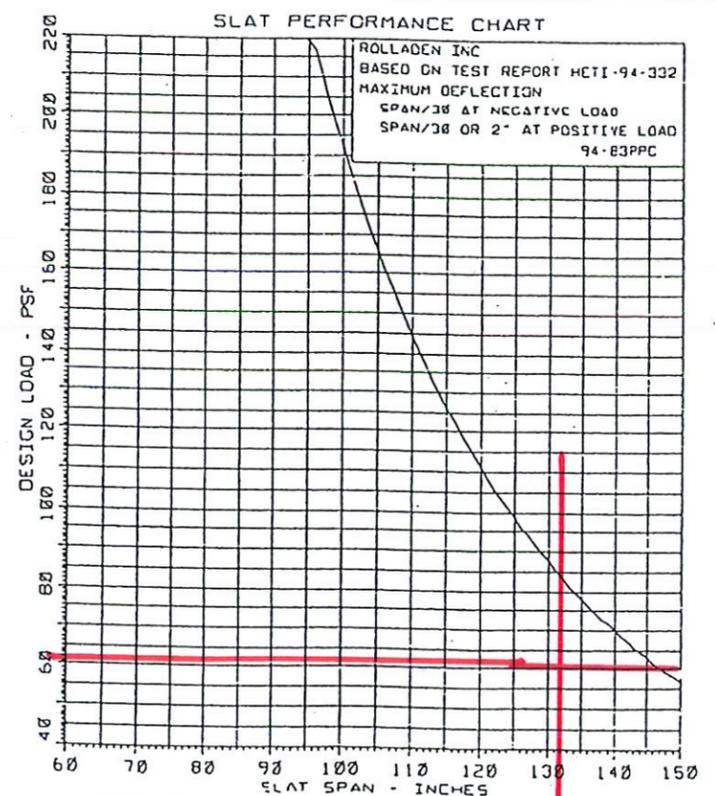
FOR INSTALLATION DETAILS SEE SHEET 2 & 3.

ANCHORS: EMBEDMENT & EDGE DISTANCES SHOWN ARE BEYOND THE WALL & FLOOR COVERING (STUCCO, TILES, ETC.)

**GENERAL NOTES**

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE.
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 6063-T6, OR AS NOTED.
4. STEEL SURFACES TO BE PLACED IN CONTACT WITH ALUMINUM SHALL BE GIVEN ONE COAT OF Z-NC CHROMATE PRIMER IN ACCORDANCE WITH FEDERAL SPEC. NO. TTP-645, OR BE GALVANIZED.
5. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. ALL BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL OR ALUMINUM ALLOY 2024-T4 OR 7075-T6, OR PLATED STEEL.
7. DESIGN CRITERIA FOR SLATS: MAX DEFLECTION  $\leq L/30$  FOR NEGATIVE LOAD AND THE LESSER OF  $L/30$  OR 2" FOR POSITIVE LOAD.
8. ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
9. A 33% INCREASE IN ALLOWABLE STRESS WAS USED IN DESIGN OF ANCHOR SPACING.

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-98.



USE SLAT PERFORMANCE CHART TO VERIFY SLAT CAPACITY FOR THE REQUIRED DESIGN LOAD FOR THE PARTICULAR LOCATION.

Engr. DR. MUHAMMAD FAROOQ  
STRUCTURES  
F.L.A. PE # 16557  
CAN. 3528

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 03-0604-03  
Expiration Date 09/23/2008  
By: *[Signature]*  
Miami Dade Product Control  
Division

OCT 24 2003

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100

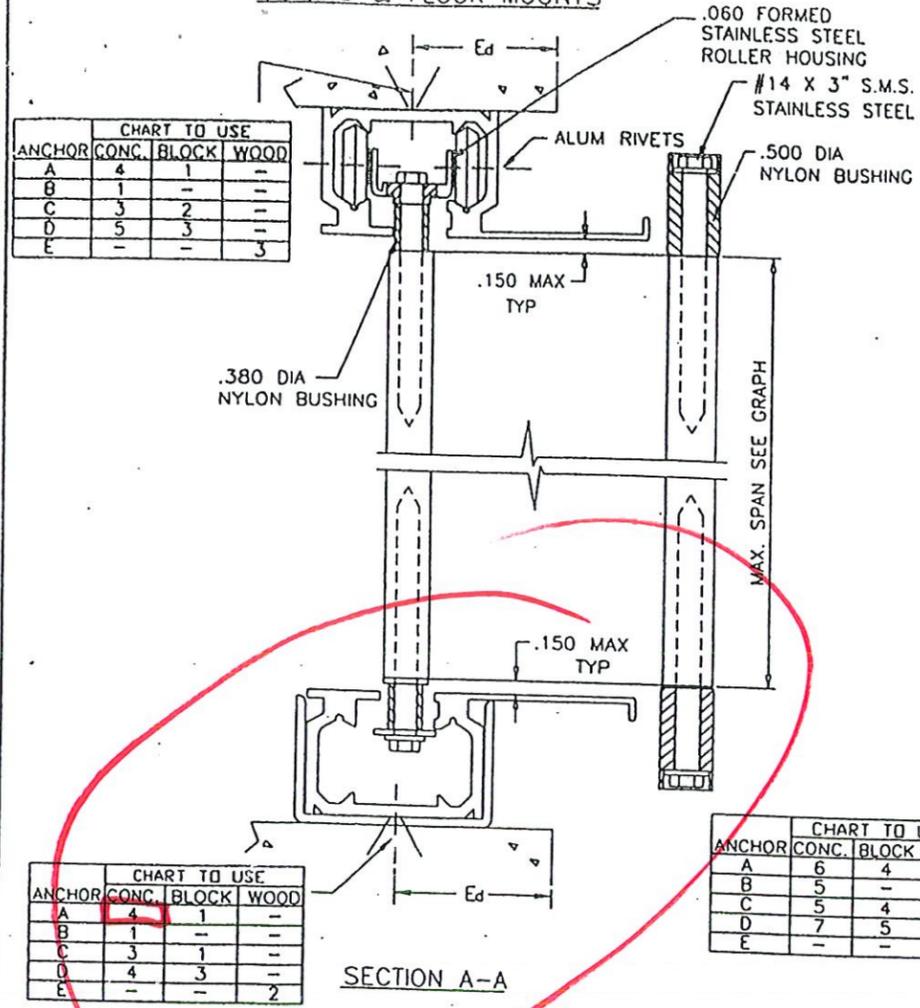
**ACCORDION SHUTTER DETAILS**  
ROLLADEN INC.  
550 ANSIN BOULEVARD  
HALLANDALE, FL. 33009  
(305) 757 - 8591

no.	date	by	description
A	1.26.95	H	SHEET 2 REVISED
B	05.23.03		UPDATED FOR FBC & NDS 97
C	10.23.03		REV. PER BCCO COMMENTS

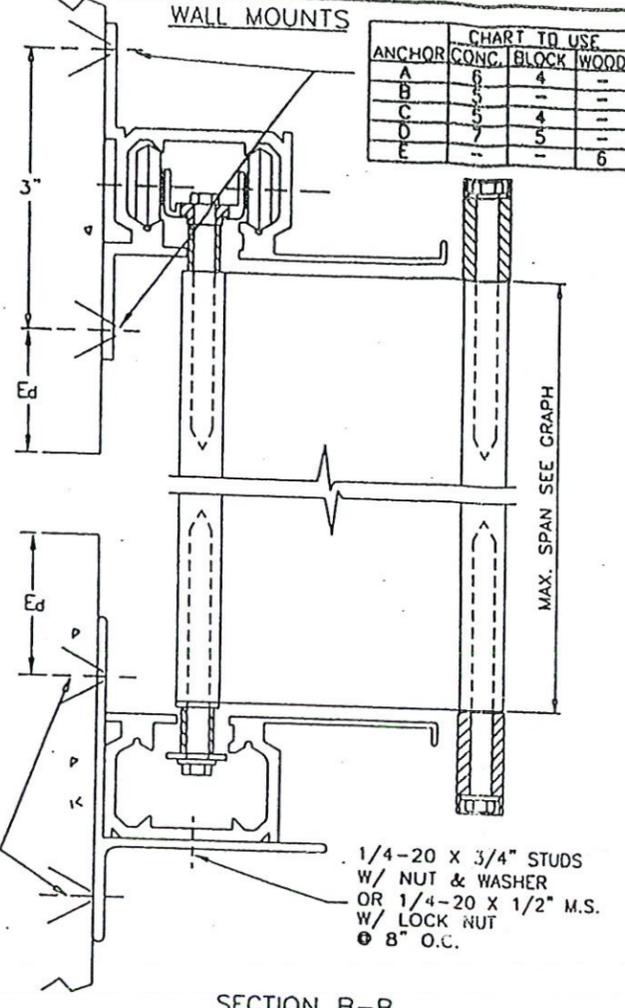
date: 10-25-94  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no. **94-83**  
sheet 1 of 4

CEILING & FLOOR MOUNTS



WALL MOUNTS



BUILT-OUT CONDITION

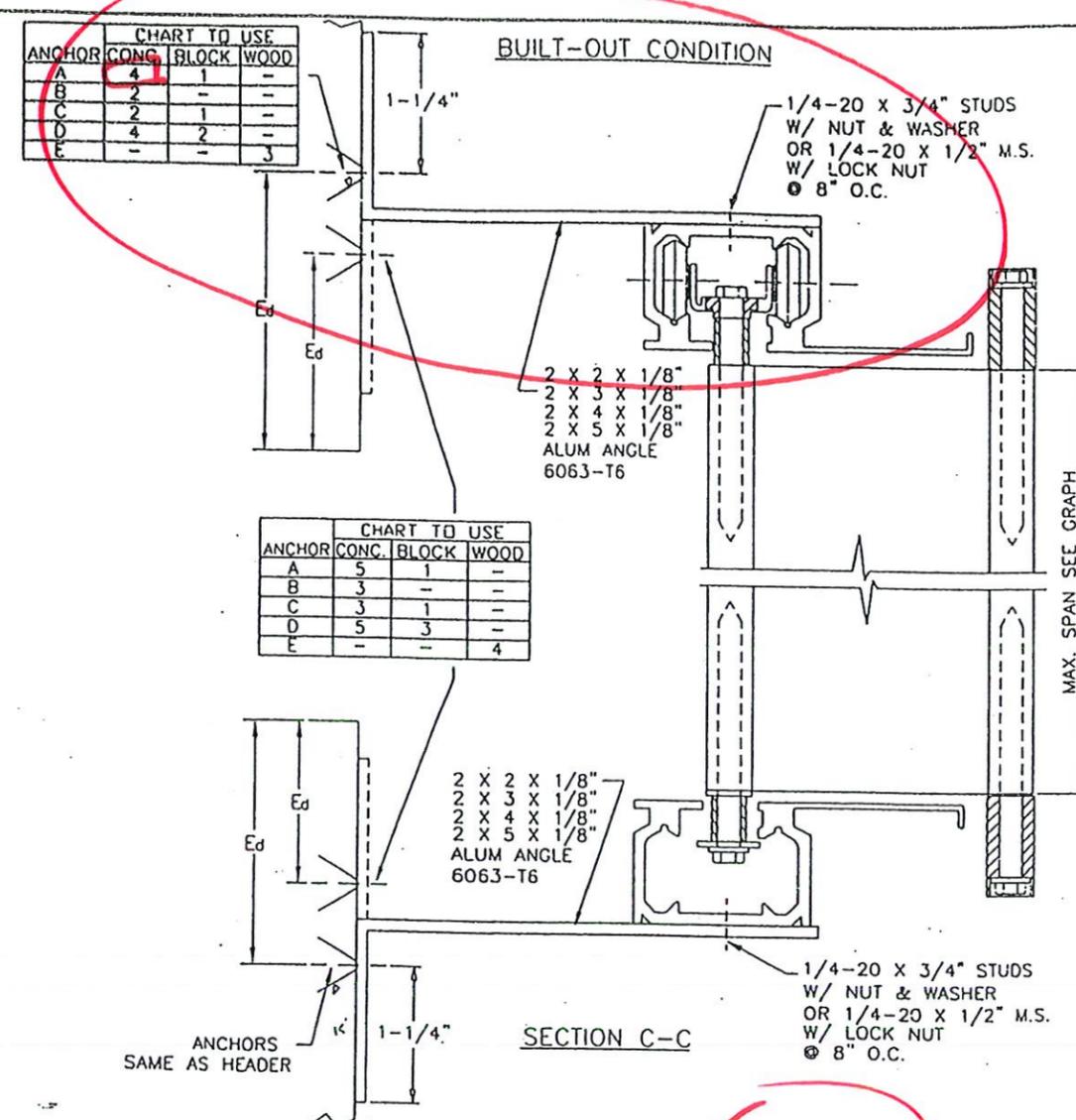


CHART TO USE			
ANCHOR	CONC.	BLOCK	WOOD
A	4	1	-
B	1	-	-
C	3	1	-
D	4	3	-
E	-	-	2

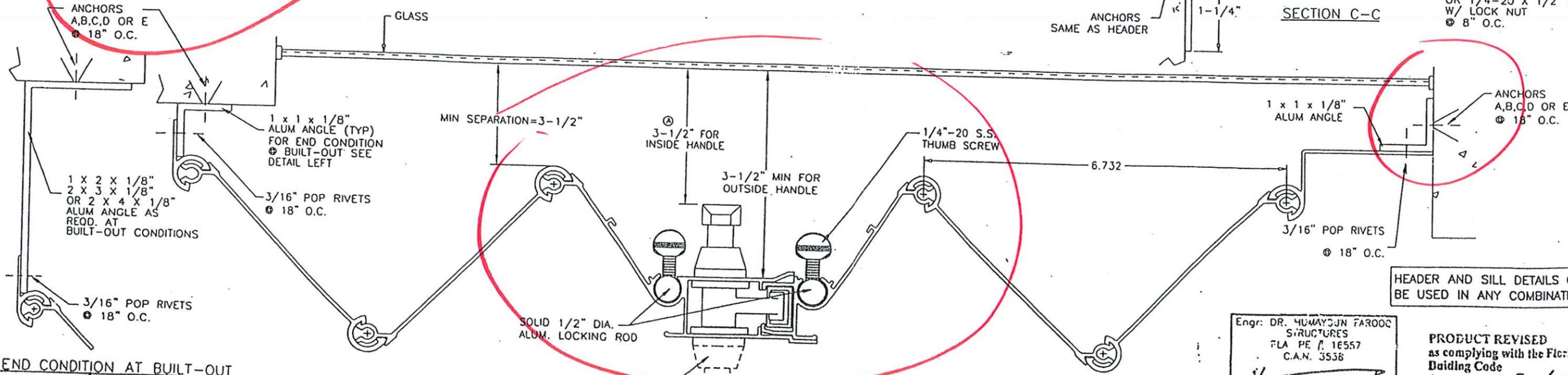
CHART TO USE			
ANCHOR	CONC.	BLOCK	WOOD
A	6	4	-
B	5	-	-
C	5	4	-
D	7	5	-
E	-	-	6

CHART TO USE			
ANCHOR	CONC.	BLOCK	WOOD
A	5	1	-
B	3	-	-
C	3	1	-
D	5	3	-
E	-	-	4

SECTION A-A

SECTION B-B

SECTION C-C



END CONDITION AT BUILT-OUT

SECTION D-D

HEADER AND SILL DETAILS CAN BE USED IN ANY COMBINATION.

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEET 1 OF 4.  
FOR ANCHOR REQUIREMENTS SEE SHEET 4 OF 4.

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

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

OCT 24 2003

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No 03-0604-03  
Expiration Date 09/25/2008

By *Heung A. Muler*  
Miami Dade Product Control Division

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100

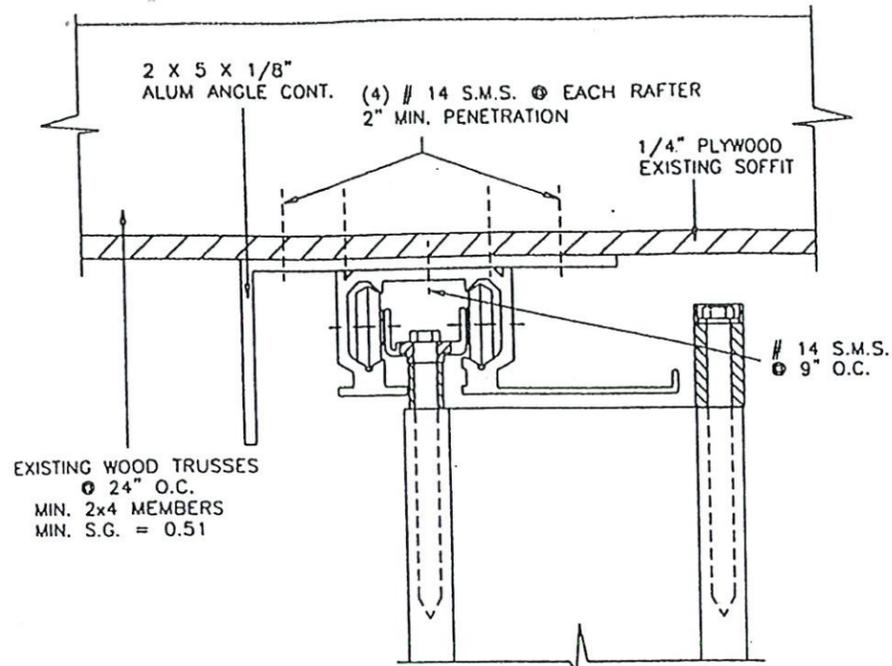
**ACCORDION SHUTTER DETAILS**  
ROLLADEN INC.  
550 ANSIN BOULEVARD  
HALLANDALE, FL. 33009  
(305) 757 - 8591

no	date	description
A	1.26.95	SHEET 2 REVISED
B	05.23.03	ANCHOR CHARTS REV.
C	10.23.03	NO CHANGE THIS SHEET

revisions: no date description

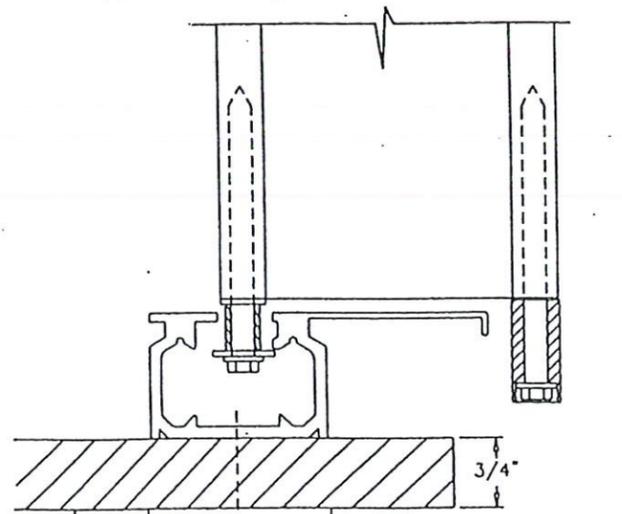
date: 10-25-94  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no. 94-83  
sheet 2 of 4



**HEADER CONNECTION TO WOOD TRUSSES**

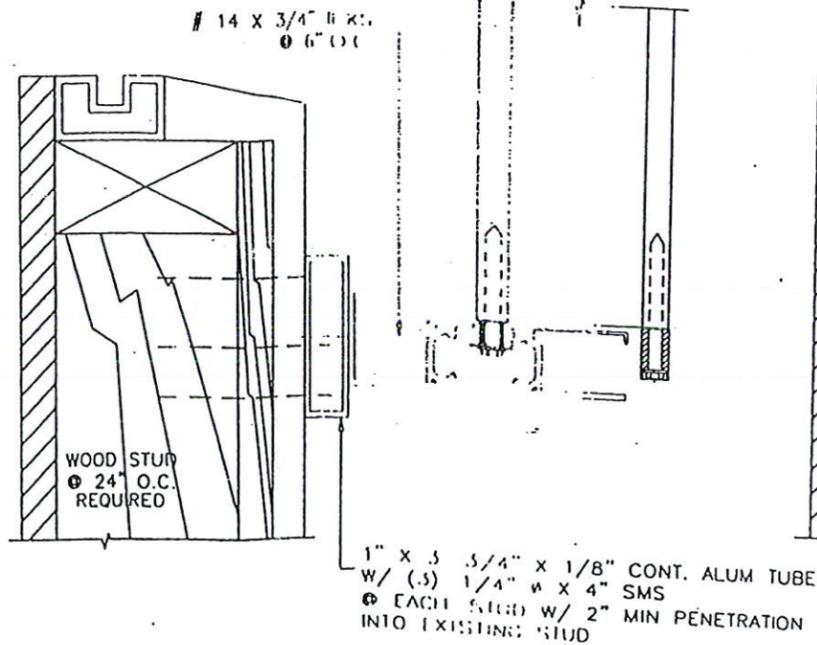
FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 58 PSF  
 FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 65 PSF  
 FOR SHUTTER HEIGHT OF 84" MAX. DESIGN LOAD = 75 PSF



**COUNTER TOP CONDITION**

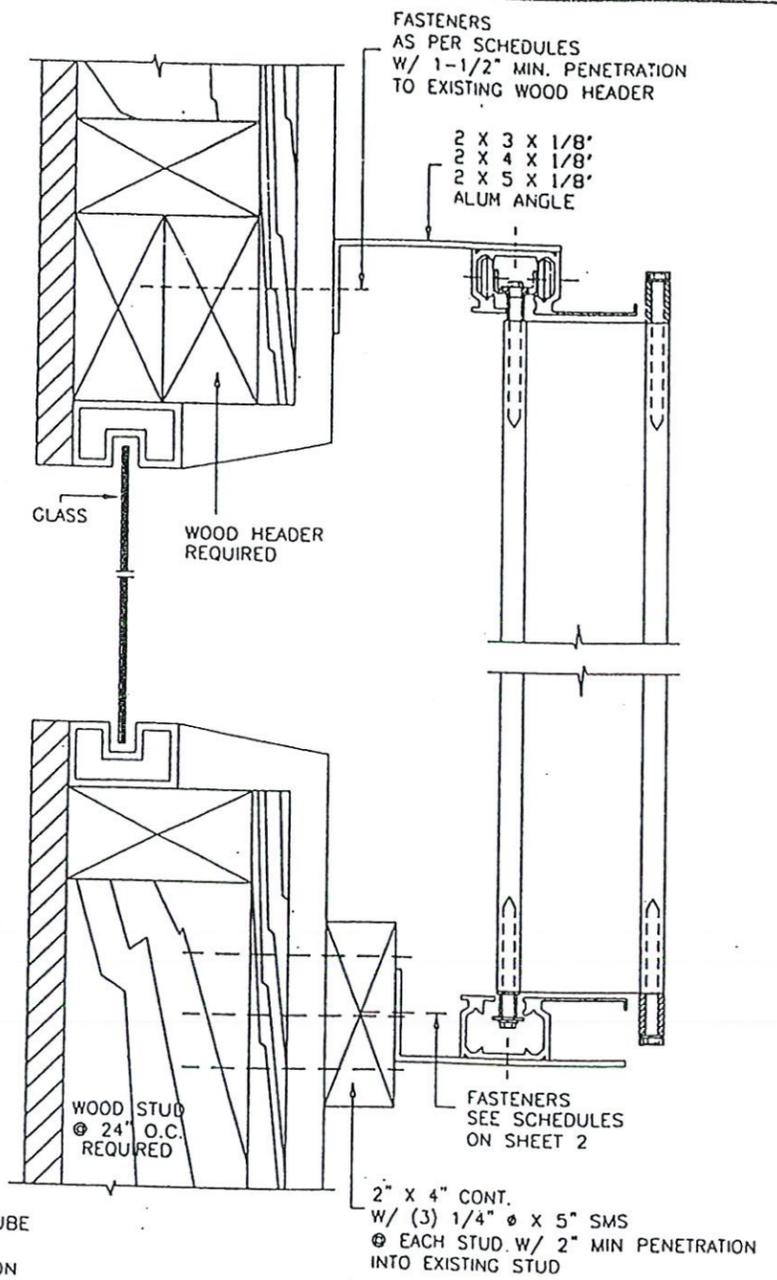
(PASS THRU WINDOW)  
 MAX SHUTTER HEIGHT = 6 FT.  
 MAX DESIGN LOAD = 70 PSF.

ANCHOR TYPE	ANCHOR SPACING INCHES					
	UPTO 50 PSF		UPTO 70 PSF			
	CONC	BLOCK	WOOD	CONC	BLOCK	WOOD
A	18.5	6.1	-	13.2	4.4	-
B	9	-	-	6.4	-	-
C	8.6	5.9	-	6.1	4.2	-
D	20.9	8.8	-	15	6.3	-
E	-	-	19.4	-	-	13.9



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

FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 140 PSF  
 FOR DIFFERENT HEADER/SILL COMBINATIONS SEE SHEET 2.



Engr: DR. HAJAYUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3539

*[Signature]*

OCT 24 2003

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 03-0604-03  
 Expiration Date 09/25/2008  
 By *[Signature]*  
 Miami Data Product Control  
 Division

N/A

*af*  
**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 (305) 264-8100

**ACCORDION SHUTTER DETAILS**  
 ROLLADEN INC.  
 550 ANSIN BOULEVARD  
 HALLANDALE, FL. 33009  
 (305) 757 - 8591

REVISIONS:

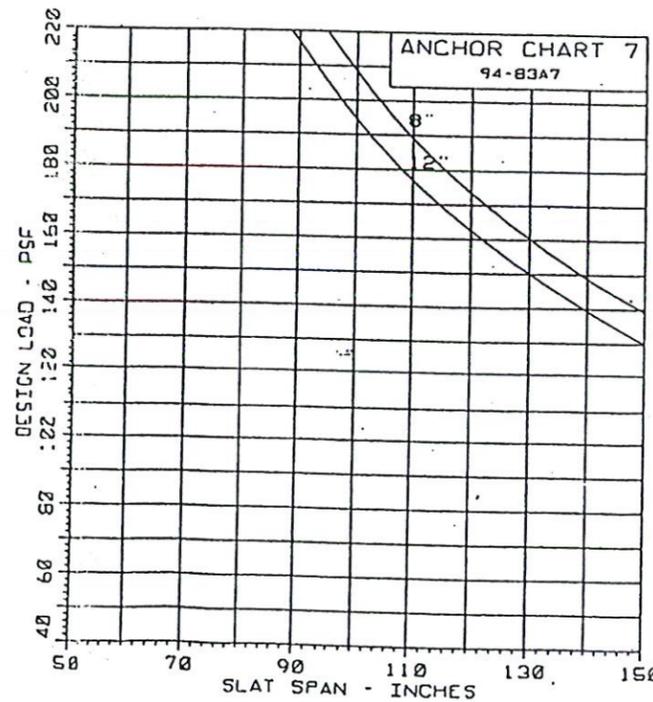
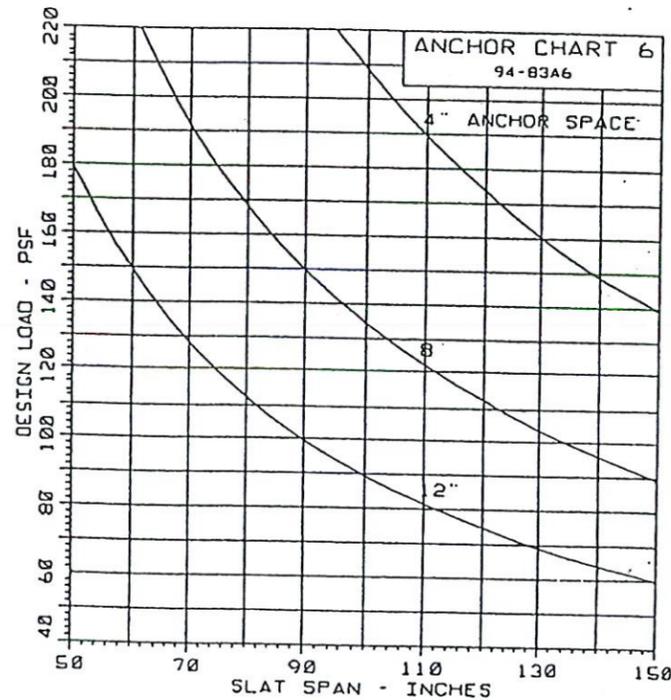
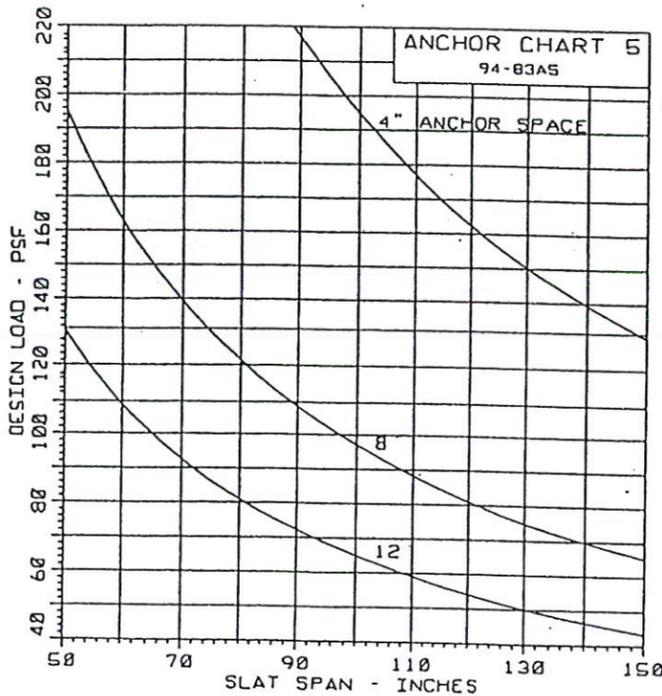
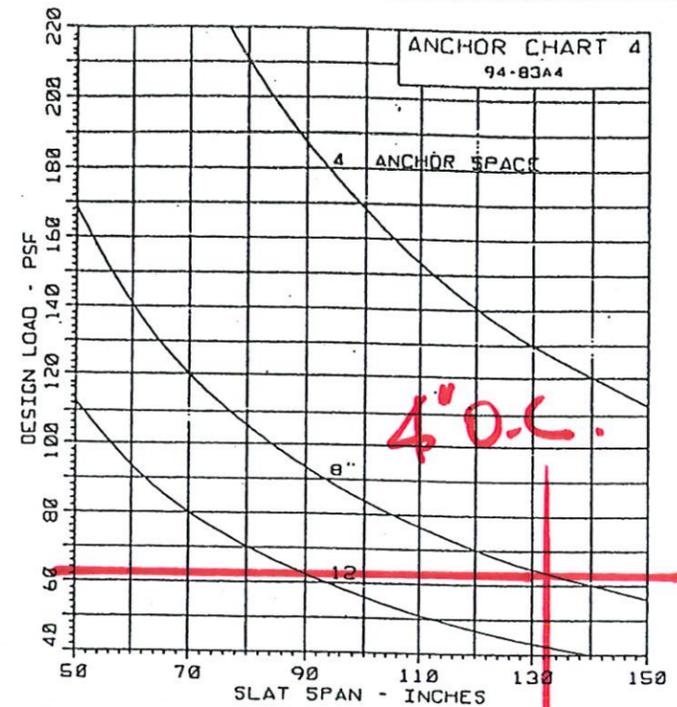
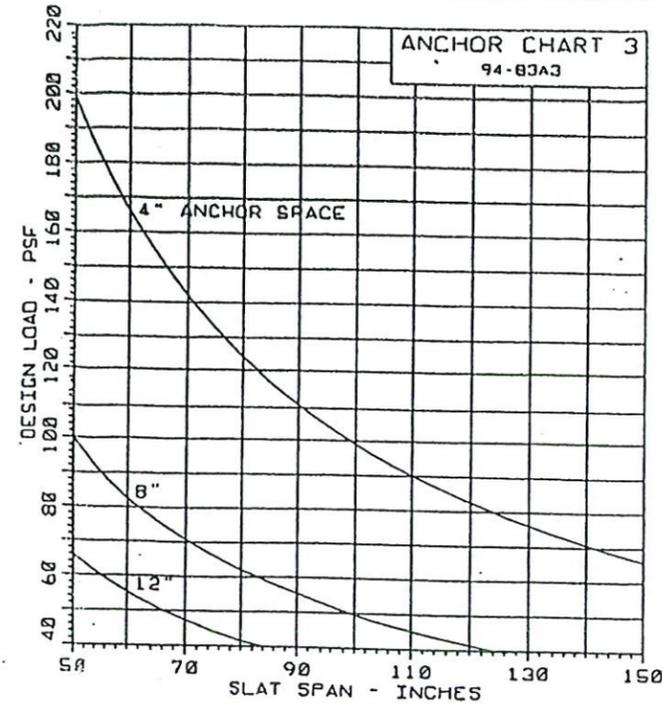
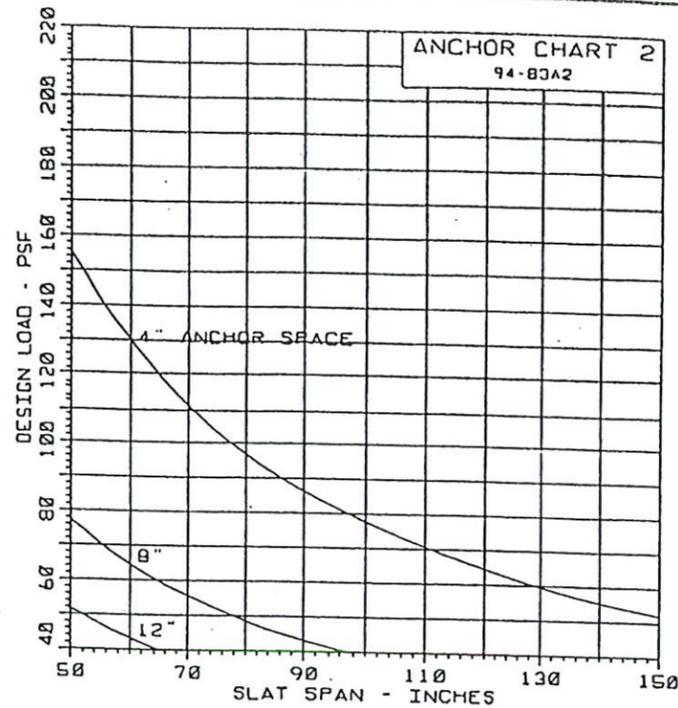
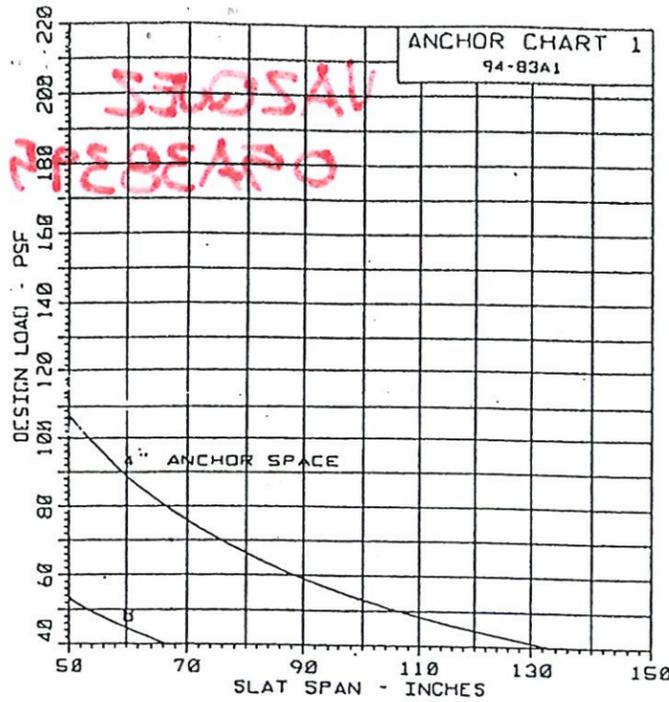
no	date	description
A	1.26.95	H SHEET 2 REVISED
B	05.23.03	ANCHOR REV.
C	10.23.03	NO CHANGE THIS SHEET

date: 10-25-94  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
 94-83

sheet 3 of 4

ACCORDION\94-83RNI



TYPICAL ANCHORS

- ANCHOR (A) = 1/4" TAPCON 1-3/4" EMBEDMENT TO CONCRETE  
1-1/4" EMBEDMENT TO BLOCK
  - ANCHOR (B) = #14 S.M.S. W/ RAWL SCRU-LEAD INTO CONCRETE  
1-1/2" EMBEDMENT.
  - ANCHOR (C) = 1/4" x 1-1/4" METAL HIT ANCHORS (W/ ZAMAC BODY)  
1" EMBEDMENT TO CONCRETE OR BLOCK
  - ANCHOR (D) = 1/4" RAWL CALK-IN, STAR 'TAMPIN' OR EQUAL.  
TOTAL ANCHOR BODY INTO CONC.
  - ANCHOR (E) = #14 S.M.S.  
1-1/2" MIN PENETRATION INTO WOOD (S.C. = 0.55)
- NOTE. ANCHORS, USE FULL EMBEDMENT IN CONCRETE BEYOND THE COVERING (STUCCO, TILES, ETC.)

USE CHARTS 1 THRU 7 TO VERIFY ANCHOR REQUIREMENTS AND STRESS LIMITATIONS OF LOAD/SPAN COMBINATIONS FOR HEADER AND SILL.

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 = 1-1/4" NO REDUCTION FACTOR IS REQUIRED					

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

OCT 24 2003

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 03-0604.03  
Expiration Date 09/15/2008  
By He...  
Miami Dade Product Control  
Division

NO	DATE	DESCRIPTION
A	1.26.95	H SHEET 2 REVISED
B	05.23.03	ANCHOR CHARTS REV.
C	10.23.03	NO CHANGE THIS SHEET

date: 10-25-94  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
94-83  
sheet 4 of 4

AL-FAROOQ CORPORATION  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100

ROLLADEN INC.  
550 ANSIN BOULEVARD  
HALLANDALE, FL. 33009  
(305) 757 - 8591

AL-FAROOQ CORPORATION  
94-83A1

afc

ACCORDION 94-83RNI



**MIAMI-DADE**  
**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)**

**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:** Extruded Aluminum Accordion Shutter

**APPROVAL DOCUMENT:** Drawing No. 96-19, titled "Accordion Shutter Details", sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, dated April 25, 1996, last revision #E dated August 01, 2000 bearing the Miami-Dade County Product Control Revision 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.

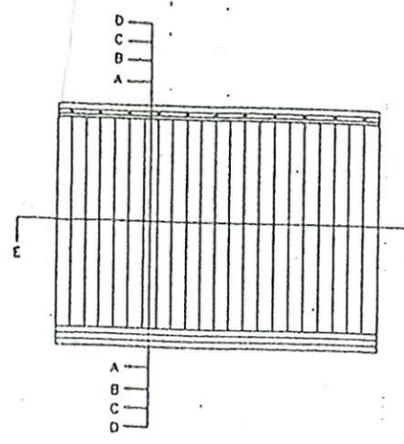
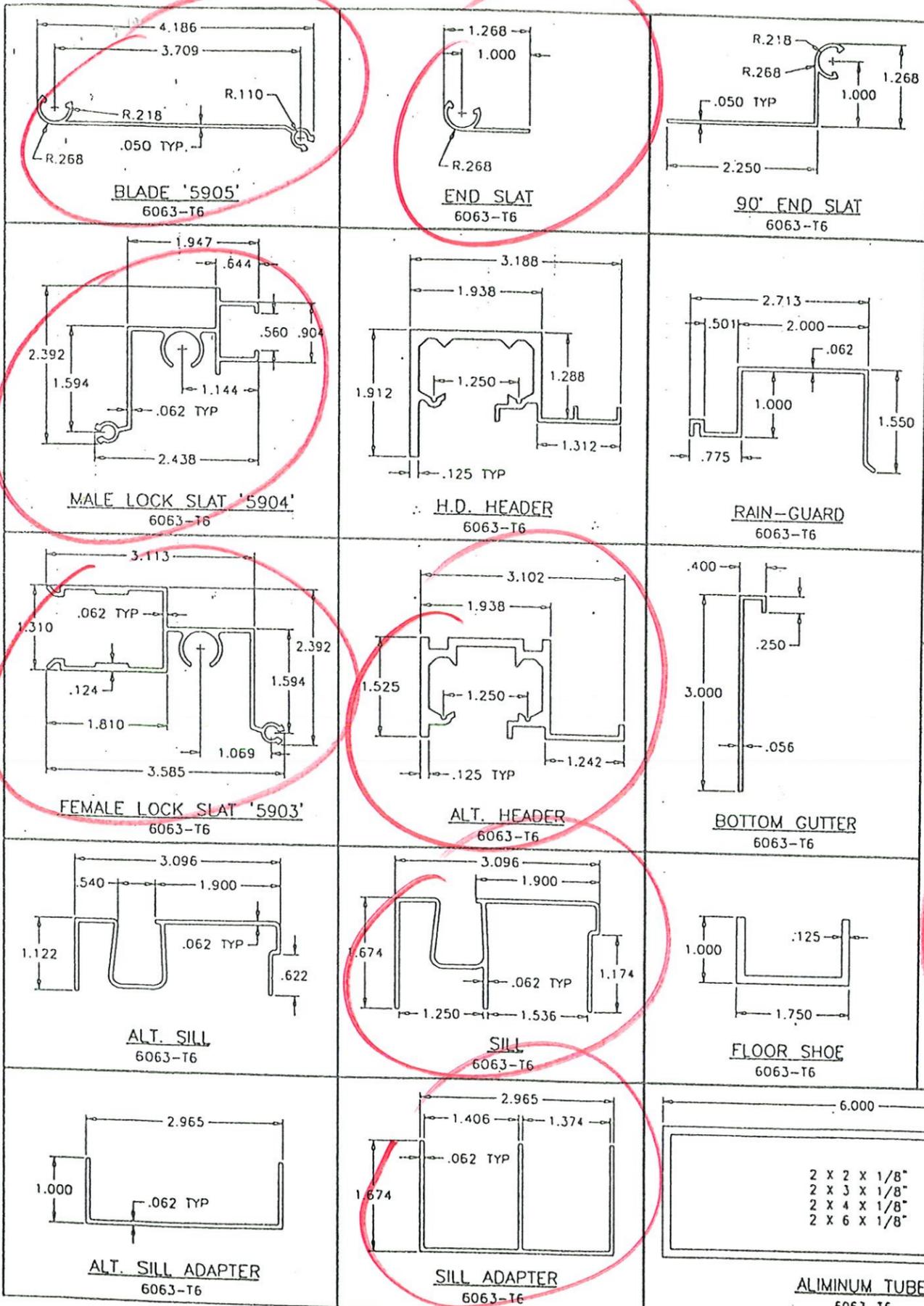
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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 revises & renews NOA # 00-0411.07 & consists of this page 1 & approval document mentioned above. The submitted documentation was reviewed by Helmy A. Makar, P.E.



NOA No 03-0123.07  
 Expiration Date: 02/27/2008  
 Approval Date: 03/13/2003  
 Page 1



**GENERAL NOTES**

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE. ALSO FOR WIND LOADS AS PER ASCE 7 USING CORRESPONDING LOADS.
2. DESIGN CRITERIA FOR ALUMINUM, MINIMUM MECHANICAL PROPERTIES, AND SAFETY FACTORS ARE IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL" LATEST EDITION.
3. ALL EXTRUSIONS SHALL BE ALLOYS AS SHOWN ON DETAILS.
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 LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. ALL BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL OR ALUMINUM ALLOY 2024-T4 OR 7075-T6.
7. DESIGN CRITERIA FOR PANELS: MAX DEFLECTION < L/30 FOR NEGATIVE PRESSURE AND THE LESSER OF L/30 OR 2" FOR POSITIVE PRESSURE.
8. ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
9. EACH UNIT SHALL HAVE A READILY VISIBLE DECAL INSTRUCTING OWNER OR TENANT TO SECURE CENTERMATES BY USING ALUMINUM PLATE, DURING PERIODS OF HURRICANE WARNING.

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-88, ASCE 7-93, ASCE 7-95 OR ASCE 7-98 AS REQUIRED BY PREVAILING BUILDING CODE.

DESIGN PRESSURE RATING = + 74 PSF  
- 105 PSF

**PRODUCT MARKING**

A LABEL SHALL BE AFFIXED ON LOCKING MEMBER ON UNIT ABOVE THE LOCK WITH THE FOLLOWING STATEMENT.  
"ROLLADEN INC.' HALLANDALE, FL.  
"DADE COUNTY PRODUCT CONTROL APPROVED"

ANCHORS: EMBEDMENT & EDGE DISTANCES SHOWN ARE BEYOND THE WALL & FLOOR COVERING (STUCCO, TILES, ETC.)

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No 03-0123.07  
Expiration Date 02/27/2008  
By: *Helmy A. Mula*  
Miami Dade Product Control Division

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

FEB 17 2003

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**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT TESTING  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100  
ACCORDION/RN196-19

**ACCORDION SHUTTER DETAILS**

ROLLADEN INC.  
550 ANSIN BOULEVARD  
HALLANDALE, FL. 33009  
(305) 757 - 8591

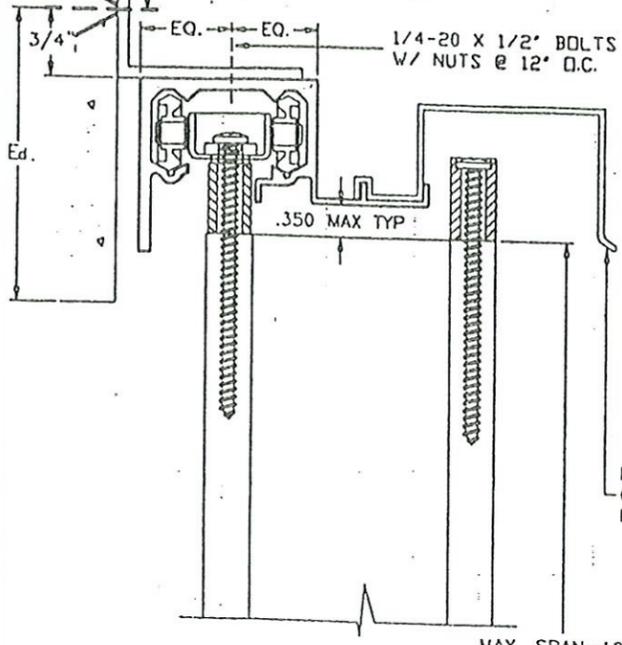
NO	DATE	BY	DESCRIPTION
A	11.25.96	H	GENERAL REVISION
B	01.02.97	H	INS. MOUNT & CHART 5 REV
C	01.30.97	H	ANCHOR CHARTS REV.
D	01.14.00	H	WALL TRACK ADDED
E	08.01.00	H	REV. PER BCC COMMENTS

date: 03-25-96  
scale: 1/2" = 1"  
design by:  
drawn by: HADP  
checked by:

drawing no.  
**96-19**  
sheet 1 of 5

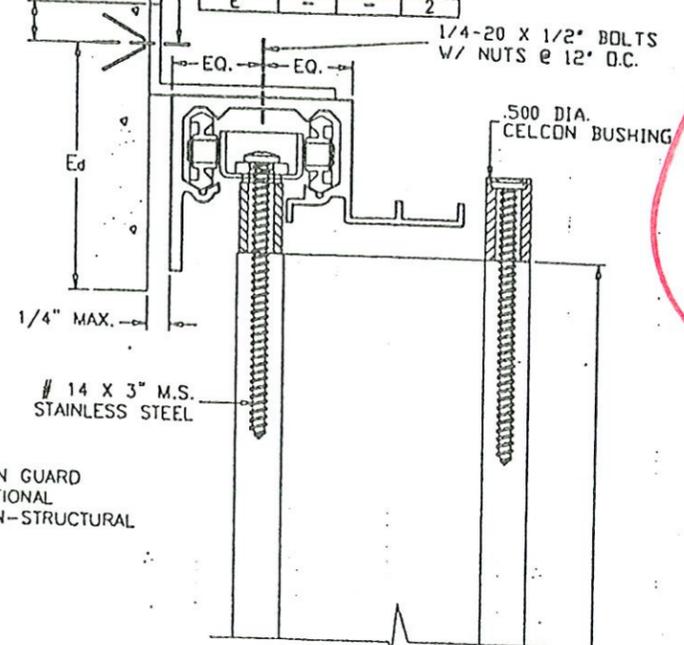
**WALL MOUNTS**

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	6	2	-
C	3	2	-
D	6	3	-
E	-	-	3



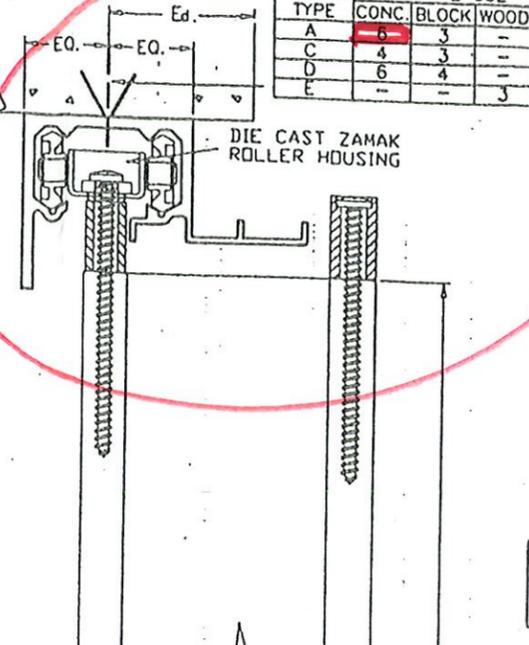
**ALT. WALL MOUNTS**

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	4	1	-
C	2	1	-
D	4	2	-
E	-	-	2



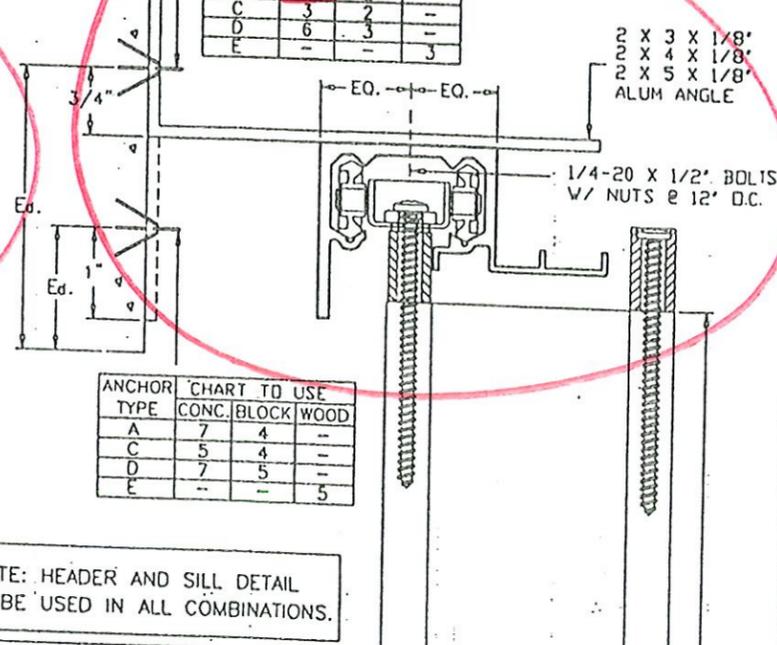
**INSIDE MOUNTS**

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	6	3	-
C	4	3	-
D	6	4	-
E	-	-	3



**BUILT-OUT CONDITION**

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	5	2	-
C	3	2	-
D	6	3	-
E	-	-	3

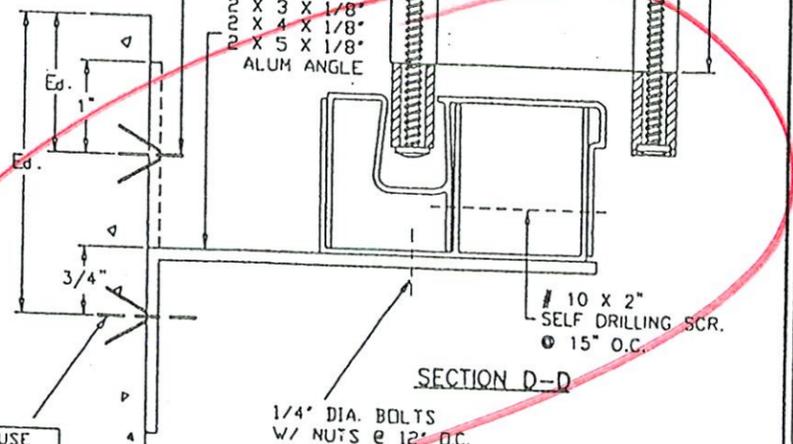


ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	7	4	-
C	5	4	-
D	7	5	-
E	-	-	5

NOTE: HEADER AND SILL DETAIL CAN BE USED IN ALL COMBINATIONS.

ALTERNATE HEADER CAN BE USED IN LIEU OF H.D. HEADER.

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	7	3	-
C	4	3	-
D	7	4	-
E	-	-	4



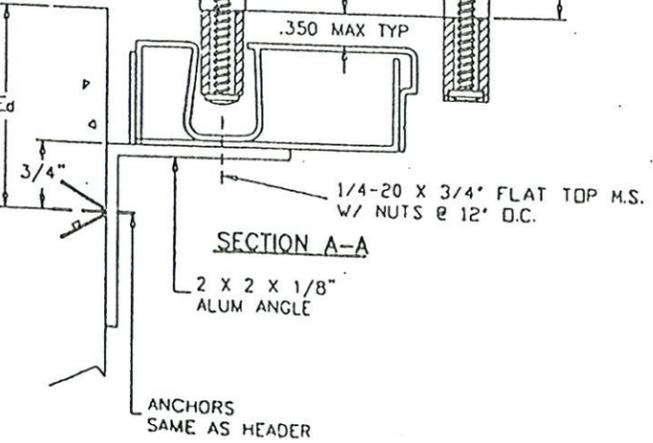
MAX. SPAN=120"

MAX. SPAN=120"

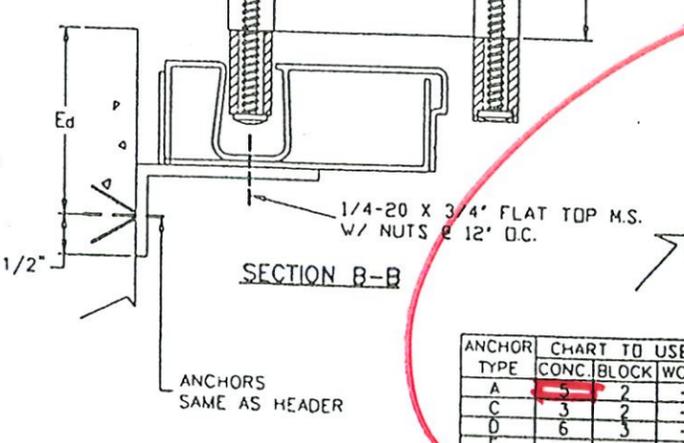
MAX. SPAN=120"

MAX. SPAN=120"

**SECTION A-A**



**SECTION B-B**

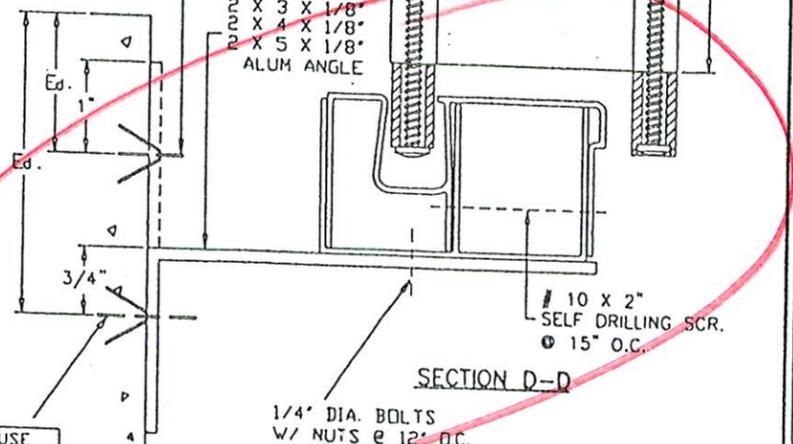


**SECTION C-C**

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	5	2	-
C	3	2	-
D	6	3	-
E	-	-	3

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	5	2	-
C	3	2	-
D	6	3	-
E	-	-	3

**SECTION D-D**



BOTTOM GUTTER OPTIONAL NON-STRUCTURAL

RAIN GUARD OPTIONAL NON-STRUCTURAL

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

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEET 1 OF 5.  
FOR WOOD INSTALLATIONS SEE SHEET 4 OF 5.  
FOR ANCHOR CHARTS SEE SHEET 5 OF 5.

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

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No 03-0123.07  
Expiration Date 02/27/2008

FEB 17 2003

By: *Helmy A. Mark*  
Miami Dept Product Control Division

af c

AL-FAROOQ CORPORATION  
ENGINEERS, PLANNERS & PRODUCT TESTING  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100  
ACCORDION/RN196-19

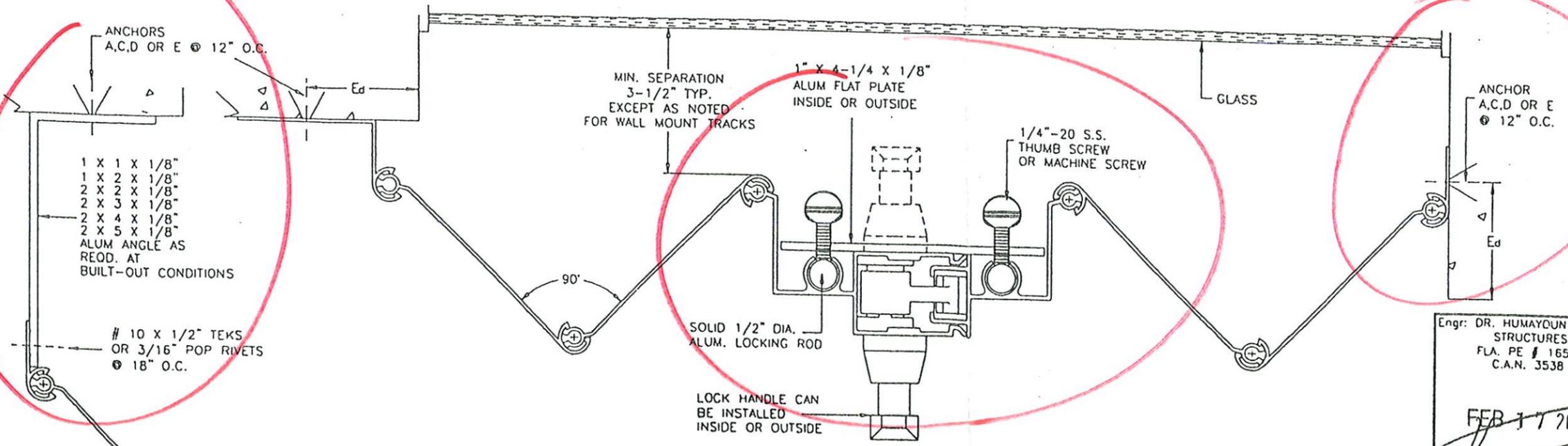
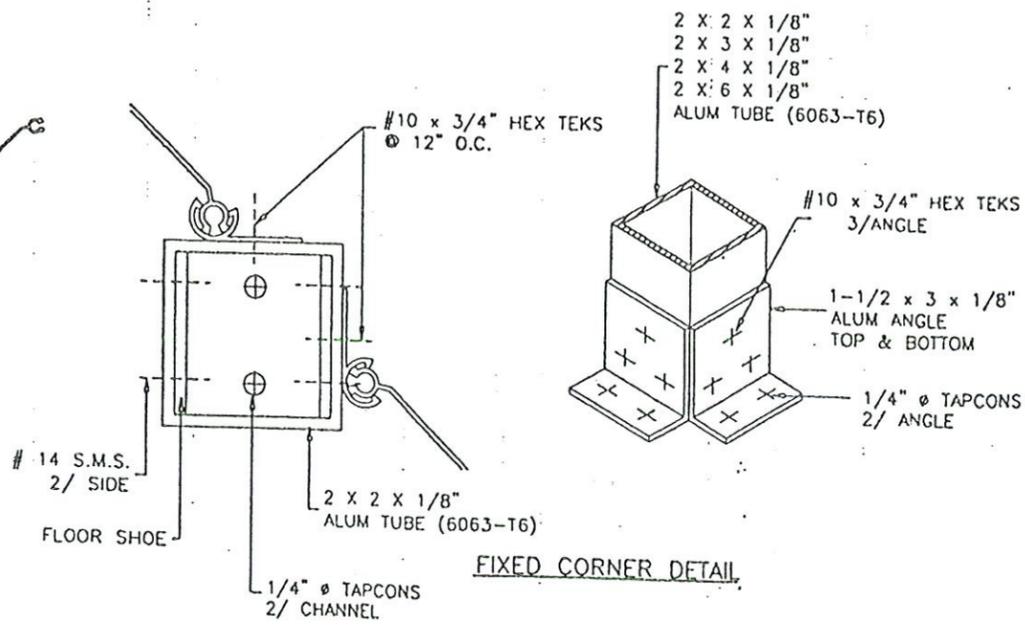
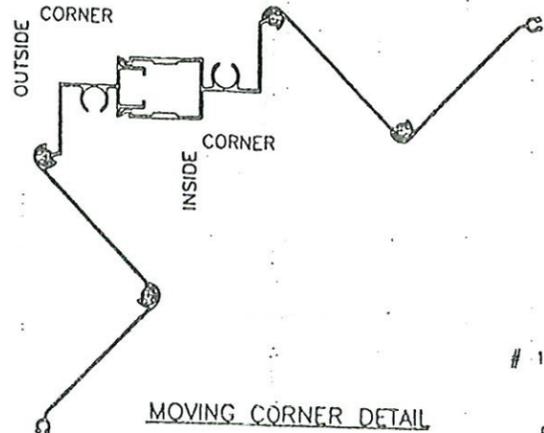
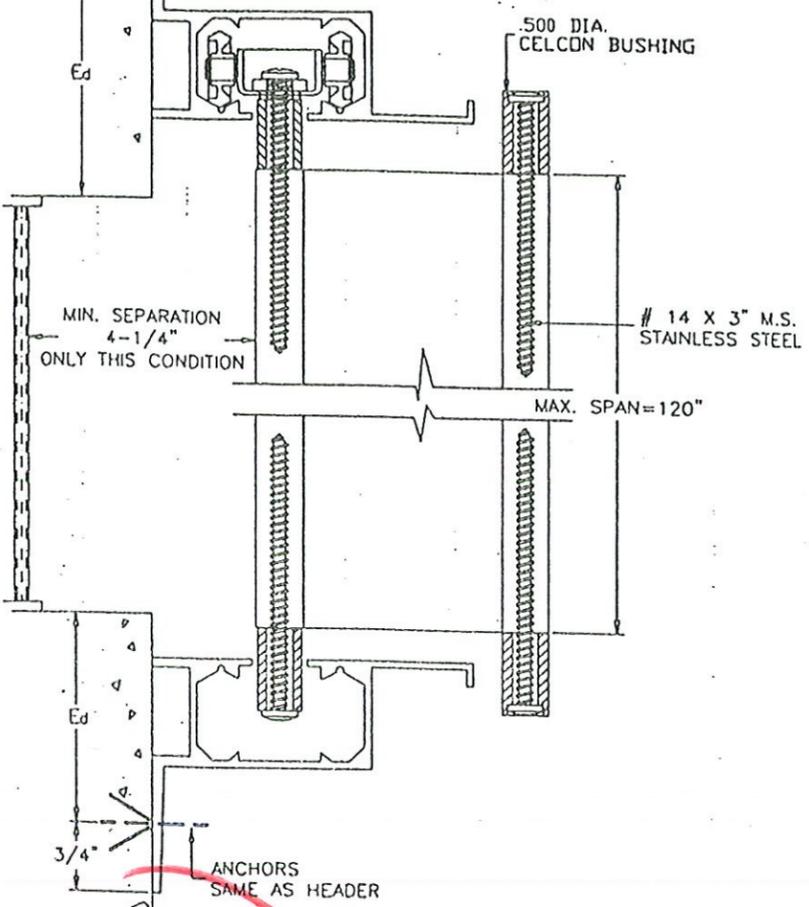
ACCORDION SHUTTER DETAILS  
ROLLADEN INC.  
550 ANSIN BOULEVARD  
HALLANDALE, FL. 33009  
(305) 757 - 8591

revisions:	no	date	by	description

date: 04-25-96  
scale: 1/2" = 1"  
design by:  
drawn by: WJG  
checked by:

drawing no.  
**96-19**  
sheet 2 of 5

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	4	2	-
C	2	2	-
D	4	2	-
E	-	-	2



- 1 X 1 X 1/8"
- 1 X 2 X 1/8"
- 2 X 2 X 1/8"
- 2 X 3 X 1/8"
- 2 X 4 X 1/8"
- 2 X 5 X 1/8"
- ALUM ANGLE AS RECD. AT BUILT-OUT CONDITIONS

# 10 X 1/2" TEKS OR 3/16" POP RIVETS @ 18" O.C.

END CONDITION AT BUILT-OUT

SECTION E-E

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 03-0123.07  
 Expiration Date 02/27/2008  
 By *Helmy A. Helmy*  
 Miami Dade Product Control Division

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

FEB 17 2003

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AL-FAROOQ CORPORATION  
 ENGINEERS, PLANNERS & PRODUCT TESTING  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 (305) 264-8100  
 ACCORDION/RN196-19

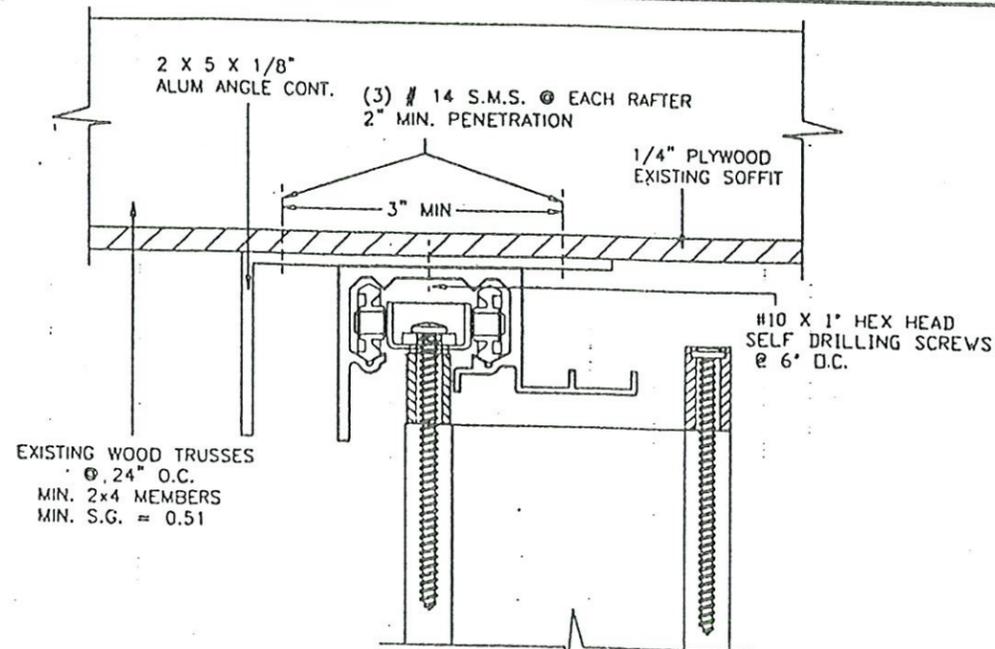
ACCORDION SHUTTER DETAILS  
 ROLLADEN INC.  
 550 ANSIN BOULEVARD  
 HALLANDALE, FL. 33009  
 (305) 757 - 8591

no	date	description

date: 04-25-96  
 scale: 1/2" = 1'  
 design by:  
 drawn by: MAHD  
 checked by:

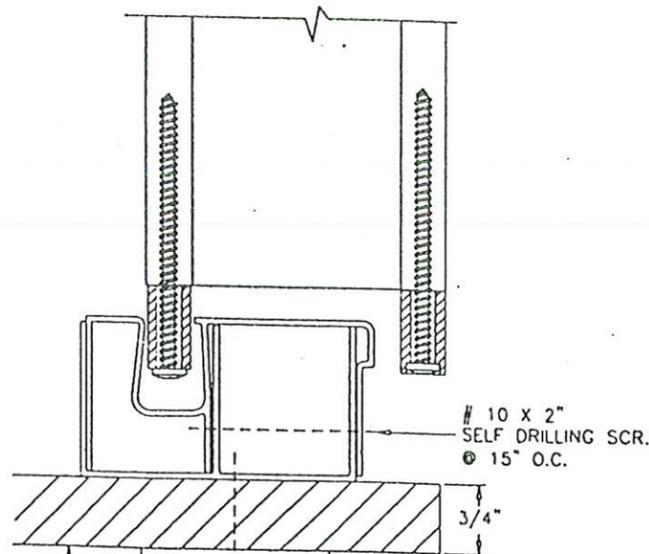
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 96-19

sheet 3 of 5



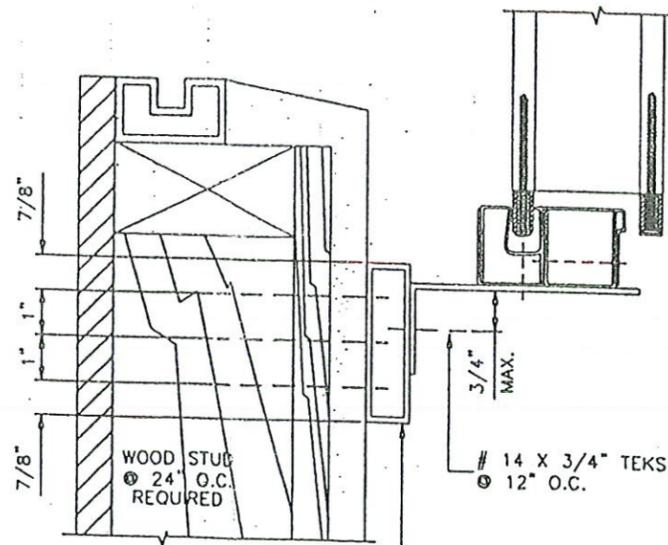
**HEADER CONNECTION TO WOOD TRUSSES**

MAX SHUTTER HEIGHT = 323"  
MAX DESIGN LOAD = 62 PSF

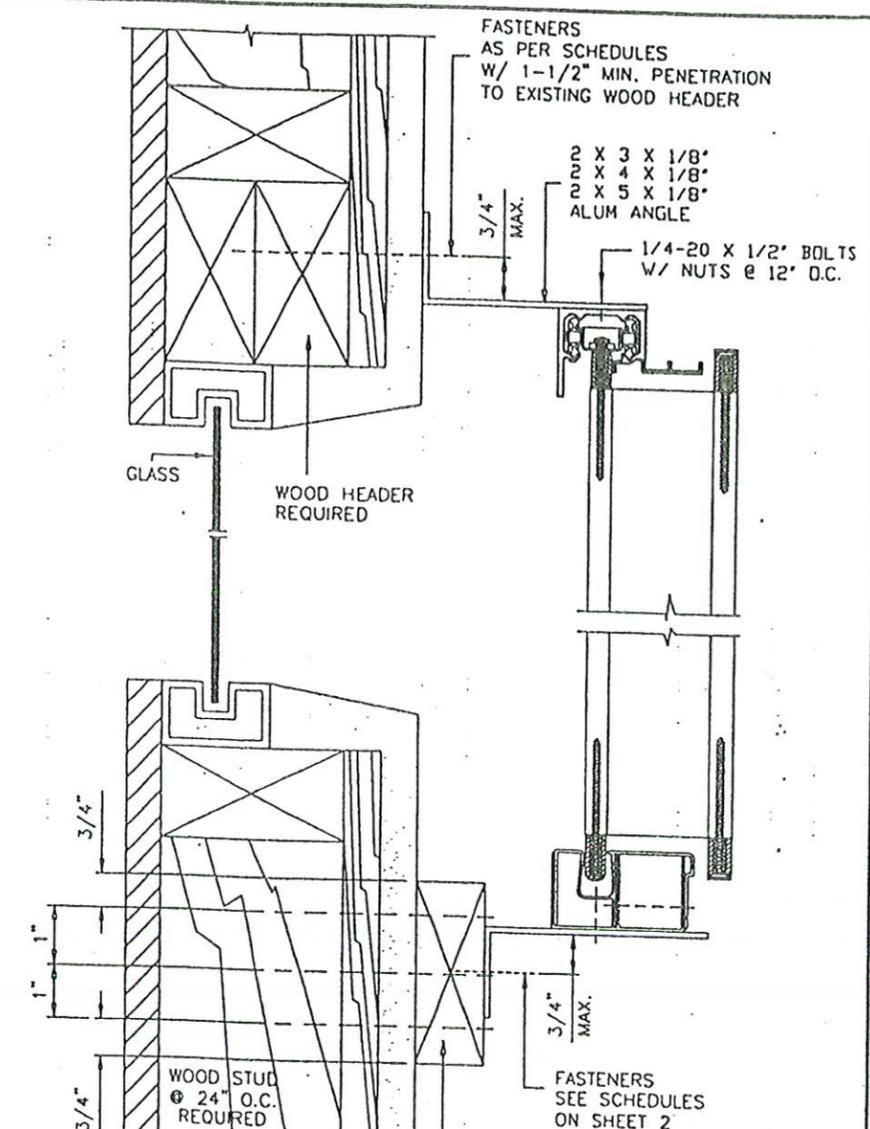


**COUNTER TOP CONDITION  
(PASS THRU WINDOW)  
MAX SHUTTER HEIGHT = 6 FT.**

ANCHOR TYPE	ANCHOR SPACING INCHES			
	UPTO 40 PSF		UPTO 70 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	23	8	13	4
C	11	7	6	4
D	16	7	9	4
E	-	-	14	8



1" X 3-3/4" X 1/8" CONT. ALUM TUBE  
W/ (3) 1/4" Ø X 4" LAG SCREWS  
Ø EACH STUD W/ 2" MIN PENETRATION  
INTO EXISTING STUD



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

MAX. SHUTTER HEIGHT = 6 FT.  
MAX. DESIGN LOAD = 65 PSF  
OTHER CONDITIONS SIMILAR  
FOR FASTENERS SEE SCHEDULES ON SHEET 2

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 03-0123.07  
Expiration Date 02/27/2008  
By: *Helmy A. Helmy*  
Miami Dade Product Control  
Division

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

FEB 17 2008

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**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT TESTING  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100  
ACCORDION/RN196-19

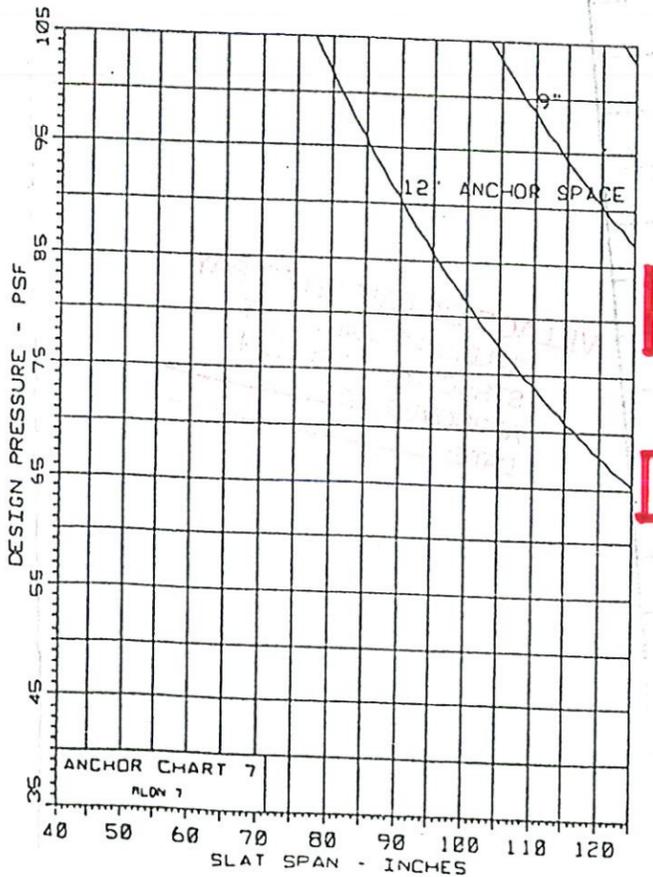
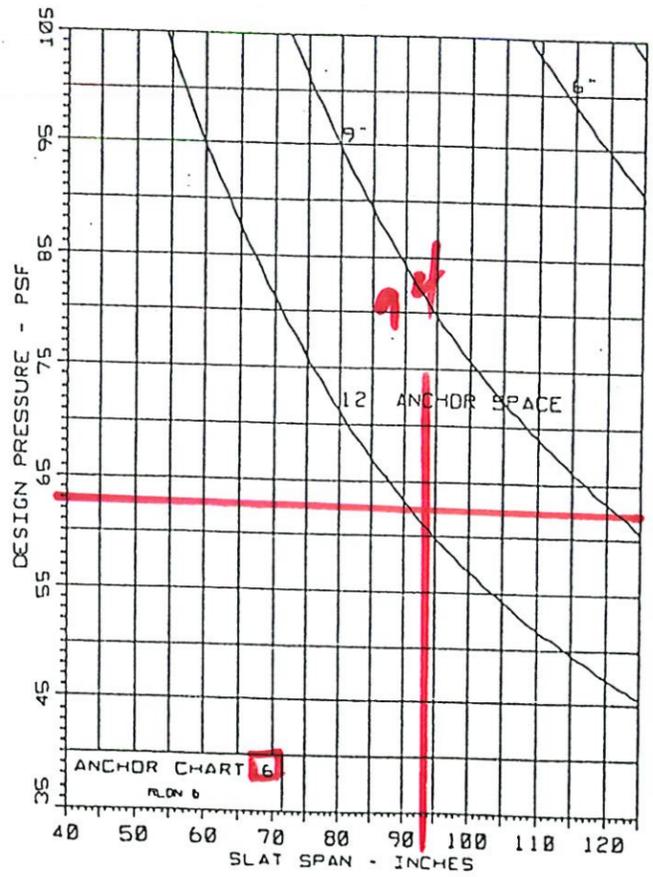
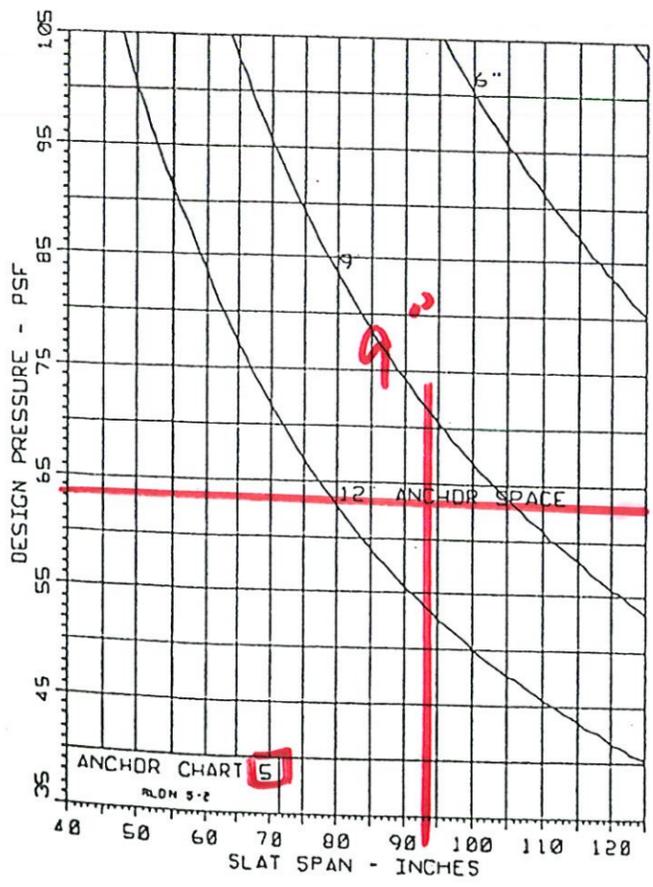
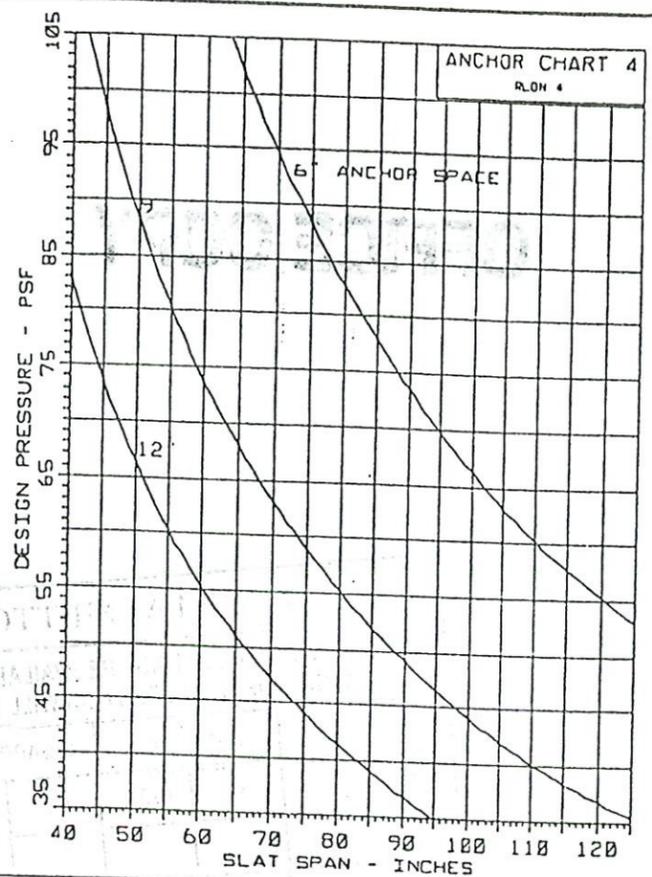
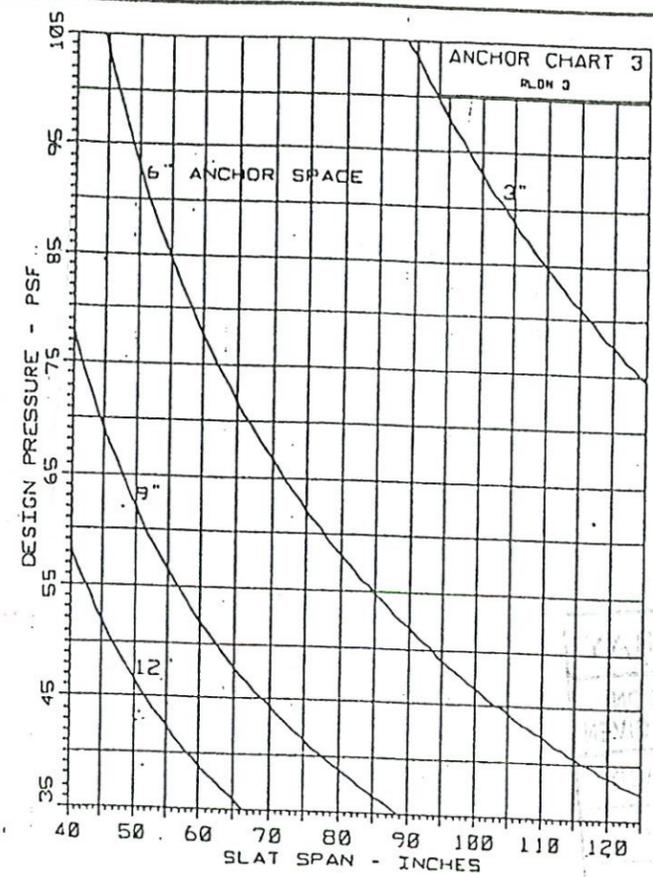
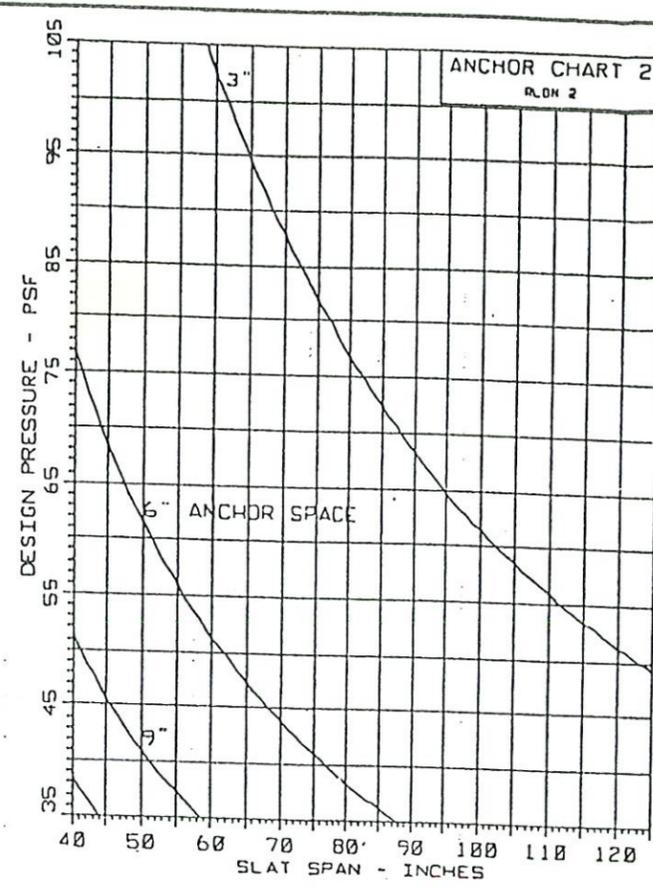
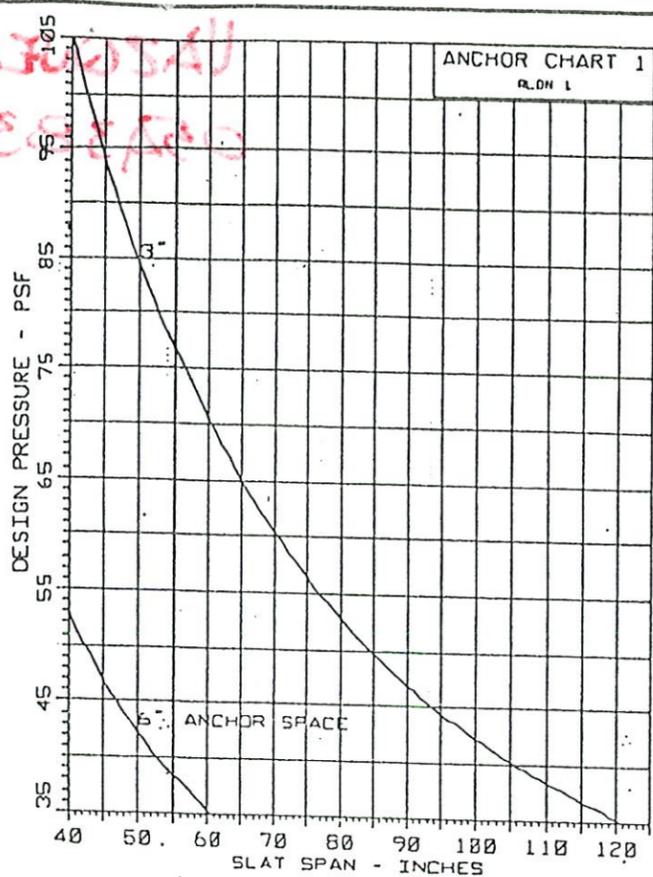
**ACCORDION SHUTTER DETAILS**  
ROLLADEN INC.  
550 ANSIN BOULEVARD  
HALLANDALE, FL. 33009  
(305) 757 - 8591

no.	date	description

date: 01-25-96  
scale: 1/2" = 1'  
design by:  
drawn by: HAWQ  
checked by:

drawing no.  
**96-19**

sheet 4 of 5



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.	2d=3"	3d=2-1/2"	4d=2"	5d=1-1/2"	6d=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 = 1-1/4"  
NO REDUCTION FACTOR IS REQUIRED

- TYPICAL ANCHORS
- ANCHOR (A) = 1/4" TAPCON BY ELCO.  
1-3/4" EMBEDMENT TO CONCRETE  
1-1/4" EMBEDMENT TO BLOCK
  - ANCHOR (C) = 1/4" X 1-1/4" HILTI METAL HIT ANCHORS  
WITH ZAMAK BODY  
OR RAWL ZAMAK NAILIN  
1" EMBEDMENT TO CONC. OR BLOCK
  - ANCHOR (D) = 1/4" RAWL CALK-IN, STAR 'TAMPIN' OR EQUAL.  
TOTAL ANCHOR BODY INTO CONC. OR BLOCK
  - ANCHOR (E) = #14 S.M.S./LAG SCREWS INTO WOOD. (S.G.= 0.47)  
1-1/2" MIN. PENETRATION.

NOTE: ANCHORS, USE FULL EMBEDMENT IN CONCRETE BEYOND THE COVERING (STUCCO, TILES, ETC.)

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

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 03-0123.07  
Expiration Date 02/27/2008

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

FEB 17 2003

af c

AL-FAROOQ CORPORATION  
ENGINEERS, PLANNERS & PRODUCT TESTING  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100

ACCORDION SHUTTER DETAILS

ROLLADEN INC.  
550 ANSIN BOULEVARD  
HALLANDALE, FL 33009  
(305) 757 - 8591

REVISIONS:

no	date	description

date: 04-25-96  
scale: 1/2" = 1'  
design by:  
drawn by: WJMD  
checked by:

drawing no.  
96-19  
sheet 5 of 5