



**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT DIVISION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**J.C. Window Shutters Manufacturer Co.**  
9465 N.W. 109 Street, #107  
Medley ,FL 33178

Your application for Notice of Acceptance (NOA) of:

**Aluminum Accordion Type Shutter**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**ACCEPTANCE NO.: 00-0607.01**  
**EXPIRES: 07/17/2003**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL  
CONDITIONS  
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 08/10/2000**



**J.C. Window Shutter Manufacturer Co.**

**ACCEPTANCE No.:** 00-0607.01

**APPROVED** : AUG 10 2000

**EXPIRES** : 07/17/2003

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

This renews the Notice of Acceptance No. 97-0527.05, which was issued on July 17, 1997. It approves an aluminum accordion type shutter, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

**2. PRODUCT DESCRIPTION**

This aluminum accordion type shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 94-60, titled "Accordion Shutter Details", prepared by Al-Farooq Corporation, dated August 3, 1994, last revision #B dated March 25, 1996, sheets 1 through 3 of 3, bearing the Miami-Dade County Product Control Approval and Renewal stamps with the Notice of Acceptance numbers and approval dates by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

All permanent set components, included but not limited to embedded anchor bolts, threaded cones, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all times.

**4. INSTALLATION**

This aluminum accordion type shutter and its components shall be installed in strict compliance with the approved drawings.

**5. 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".

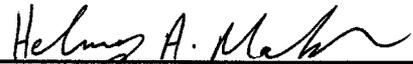
**6. BUILDING PERMIT REQUIREMENTS**

**6.1** Application for building permit shall be accompanied by copies of the following:

**6.1.1** This Notice of Acceptance.

**6.1.2** Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

**6.1.3** Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

  
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Helmy A. Makar, P.E.- Product Control Examiner  
Product Control Division

**J.C. Window Shutter Manufacturer Co.**

**ACCEPTANCE No.:** 00-0607.01

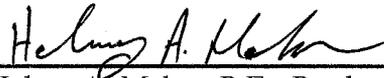
**APPROVED** : AUG 10 2000

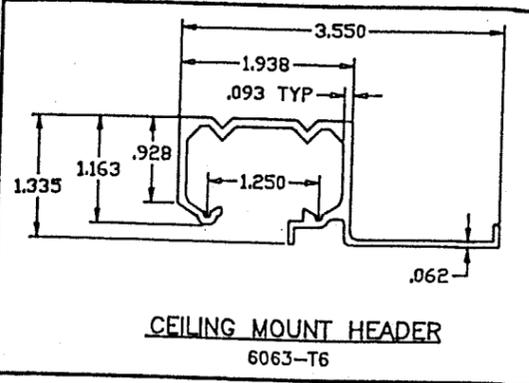
**EXPIRES** : 07/17/2003

**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

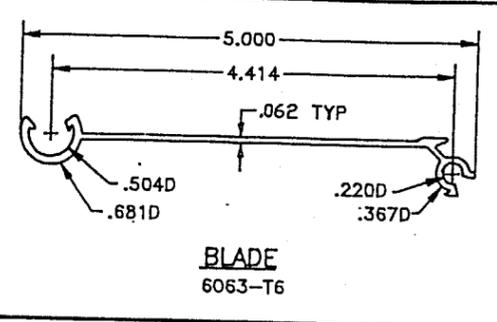
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

**END OF THIS ACCEPTANCE**

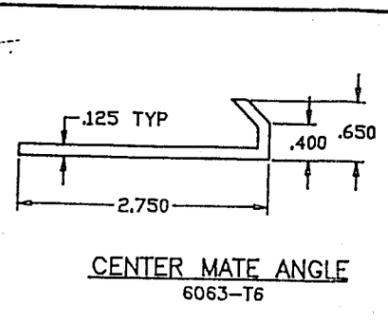
  
\_\_\_\_\_  
Helmy A. Makar, P.E.- Product Control Examiner  
Product Control Division



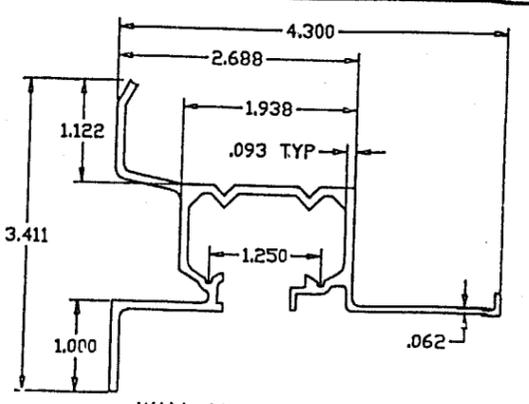
**CEILING MOUNT HEADER**  
6063-T6



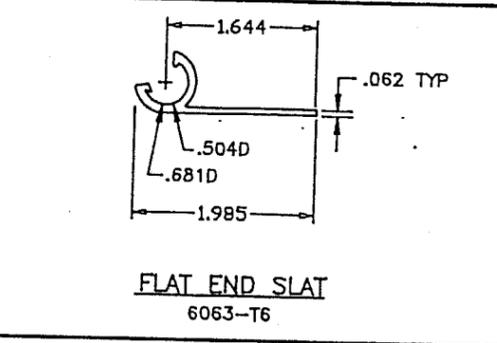
**BLADE**  
6063-T6



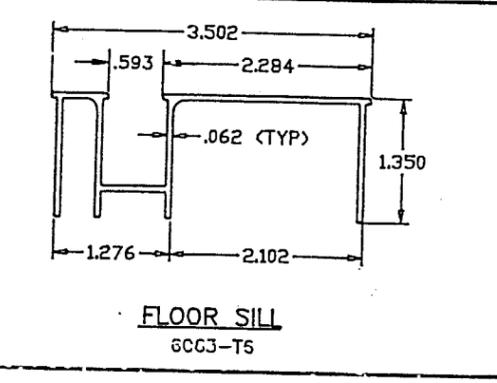
**CENTER MATE ANGLE**  
6063-T6



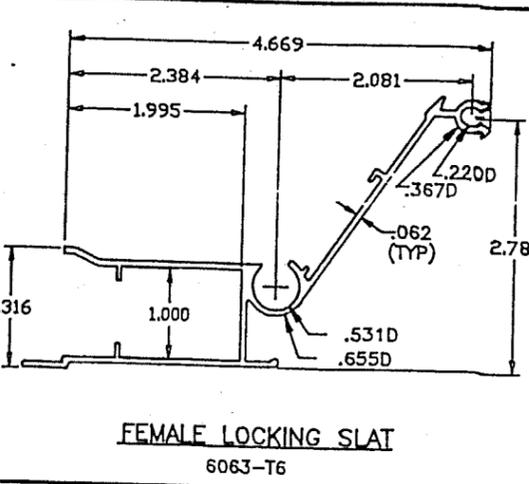
**WALL MOUNT HEADER**  
6063-T6



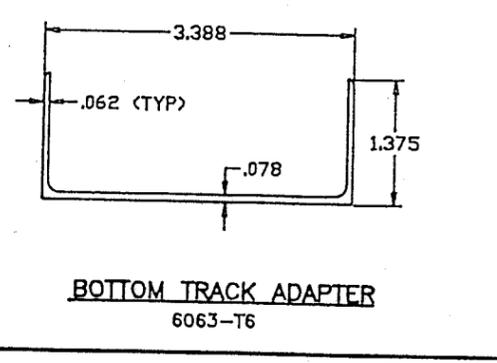
**FLAT END SLAT**  
6063-T6



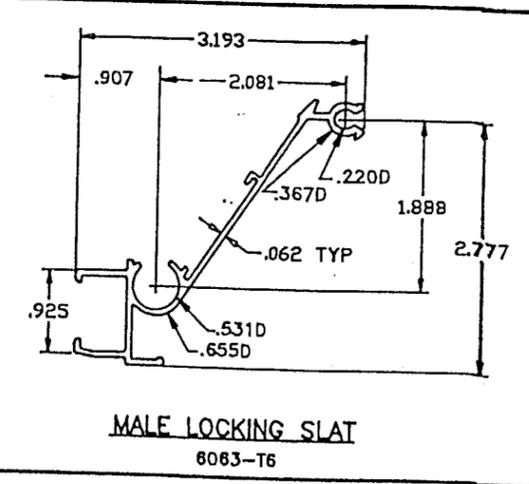
**FLOOR SILL**  
6063-T5



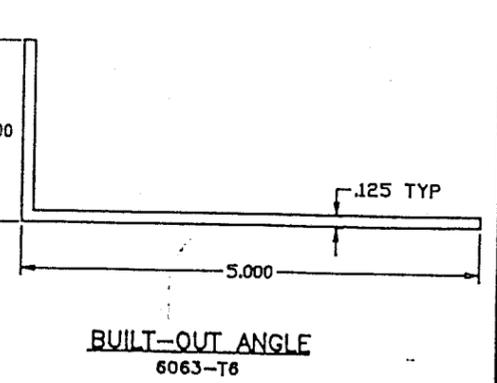
**FEMALE LOCKING SLAT**  
6063-T6



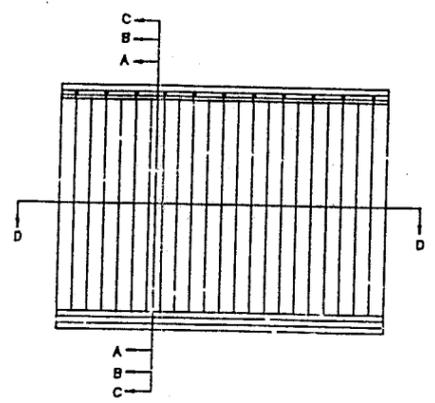
**BOTTOM TRACK ADAPTER**  
6063-T6



**MALE LOCKING SLAT**  
6063-T6



**BUILT-OUT ANGLE**  
6063-T6



**TYPICAL ELEVATION**

**FASTENER SPACING IN MASONRY**

TABLES 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 = 8" O.C. (FROM TABLE)  
FOR 2" EDGE DIST. SPACING = 8 X .71 = 5.7 O.C.

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

**TYPICAL ANCHORS**

- ANCHOR (A) = 1/4" TAPCON 1-3/4" EMBEDMENT TO CONCRETE  
1-1/4" EMBEDMENT TO BLOCK
  - ANCHOR (D) = 1/4" RAWL CALK-IN, STAR TAMPIN' OR EQUAL  
TOTAL ANCHOR BODY INTO CONCRETE 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.)

**GENERAL NOTES**

- THIS STRUCTURE IS DESIGNED AS PER THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR DADE COUNTY. ALSO FOR WIND LOADS AS PER ASCE 7-88 USING CORRESPONDING LOADS.
- DESIGN CRITERIA FOR ALUMINUM, MINIMUM MECHANICAL PROPERTIES, AND SAFETY FACTORS ARE IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL" LATEST EDITION.
- ALUMINUM ALLOYS: ALL EXTRUSIONS SHALL BE ALLOY 6063-T6, OR AS NOTED.
- 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.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ALL BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL OR ALUMINUM ALLOY 2024-T4 OR 7075-T6, OR PLATED STEEL.
- THE DESIGN AT ANY GIVEN ELEVATION SHALL COMPLY WITH THE TABLES PERTAINING TO THE EXPOSURE/ZONE.
- DESIGN CRITERIA FOR PANELS: MAX DEFLECTION  $\leq L/30$  OR 2".
- ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE TO BE ENGINEERED SEPARATELY.
- EACH UNIT SHALL HAVE A READILY VISIBLE DECAL INSTRUCTING OWNER OR TENANT TO SECURE CENTERMATES WITH AN ANGLE AT CENTER SPAN AND WITH ALUMINUM PLATES AT 24" FROM TOP & 24" FROM BOTTOM, DURING PERIODS OF HURRICANE WARNING.

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-88, BASED ON 110 MPH WIND VELOCITY.

**PRODUCT MARKING**

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

J.C. WINDOW SHUTTER MANUFACTURER CO.  
"DADE COUNTY PRODUCT CONTROL APPROVED"

DESIGN PRESSURE RATING = + 120 PSF,  
- 205 PSF.

**PRODUCT RENEWED**

ACCEPTANCE No. 00-0607.01

EXPIRATION DATE 07/17/2003

By *Helmut A. Mader*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

**PRODUCT RENEWED**

ACCEPTANCE No. 97-0527.05

EXPIRATION DATE July 17, 2000

By *Manuel Sery*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

Engr. DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE SEPTEMBER 19, 1996  
BY *Manuel Sery*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE No. 96-0521.02

ATTN. BLDG. OFFICIALS  
DO NOT ACCEPT THIS DRAWING  
W/O J.C. WINDOW SHUTTER MFG. CO.  
RAISED CORPORATE SEAL.

CORPORATE SEAL

*TT*

AUG 30 1996

FOR INSTALLATION DETAILS SEE SHEET 2 AND 3.

**a f c**

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT TESTING  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100  
JCWINAC2

**ACCORDION SHUTTER DETAILS**  
J.C. WINDOW SHUTTER MFG. CO.  
9485 N.W. 109 ST. # 107  
MEDLEY, FL 33178  
(305) 557 - 7575

Revisions:

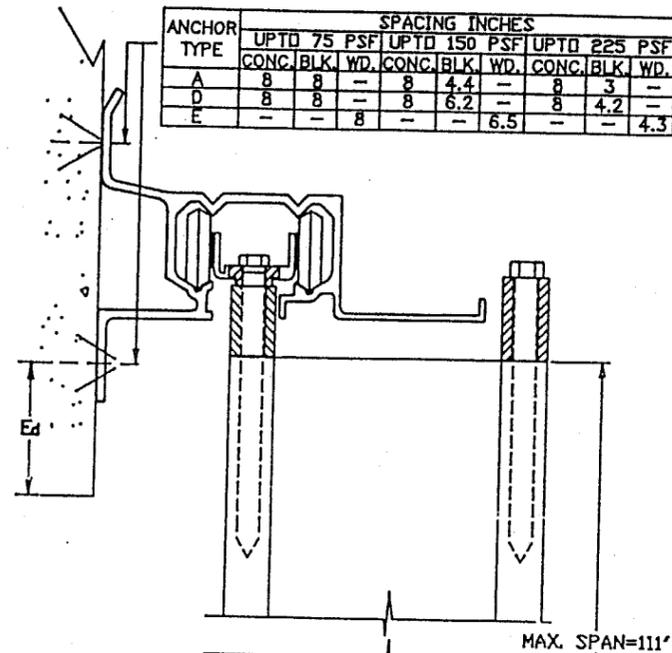
no.	date	by	description
A	10.11.94	J.H.	NOTE ADDED
B	3.25.96	T.H.	COMPLETE REVISION

date: 08-03-96  
scale: 1/2" = 1"  
design by: *Manuel Sery*  
drawn by: HANID  
checked by:

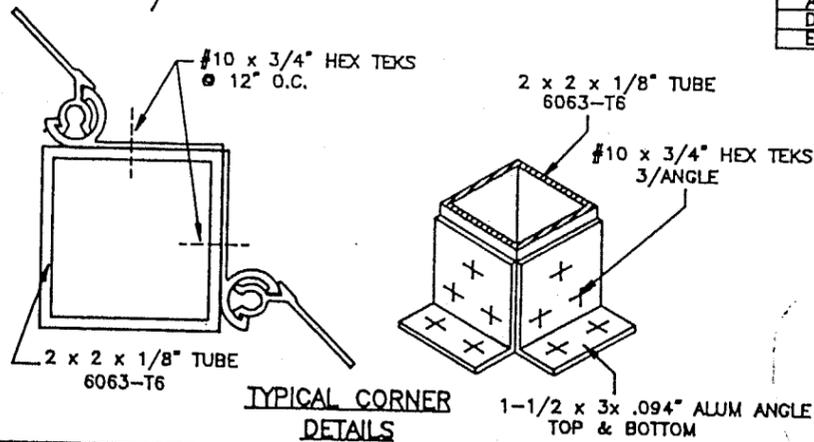
drawing no.  
**94-60**  
sheet 1 of 3

**WALL MOUNTS**

ANCHOR TYPE	SPACING INCHES					
	UPTD 75 PSF		UPTD 150 PSF		UPTD 225 PSF	
	CONC.	BLK.	CONC.	BLK.	CONC.	BLK.
A	8	8	8	4.4	8	3
D	8	8	8	6.2	8	4.2
E	-	-	8	-	6.5	-
						4.3

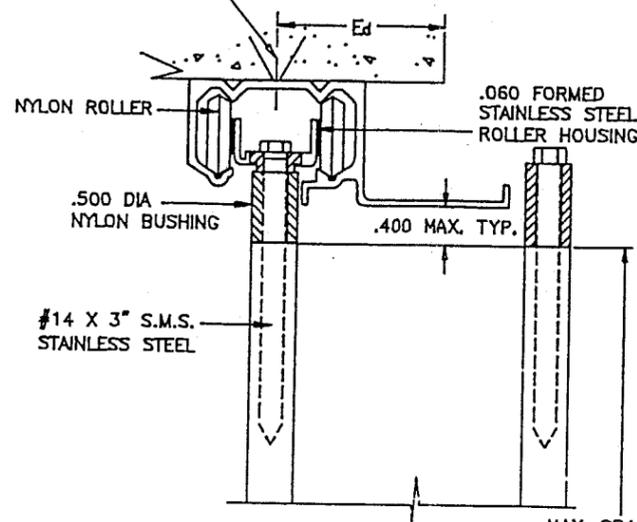


**SECTION A-A**



**INSIDE MOUNTS**

ANCHOR TYPE	SPACING INCHES					
	UPTD 75 PSF		UPTD 150 PSF		UPTD 225 PSF	
	CONC.	BLK.	CONC.	BLK.	CONC.	BLK.
A	8	4.8	6.1	-	4.1	-
D	8	6.7	6.8	3.4	4.5	-
E	-	-	6	-	3	-



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

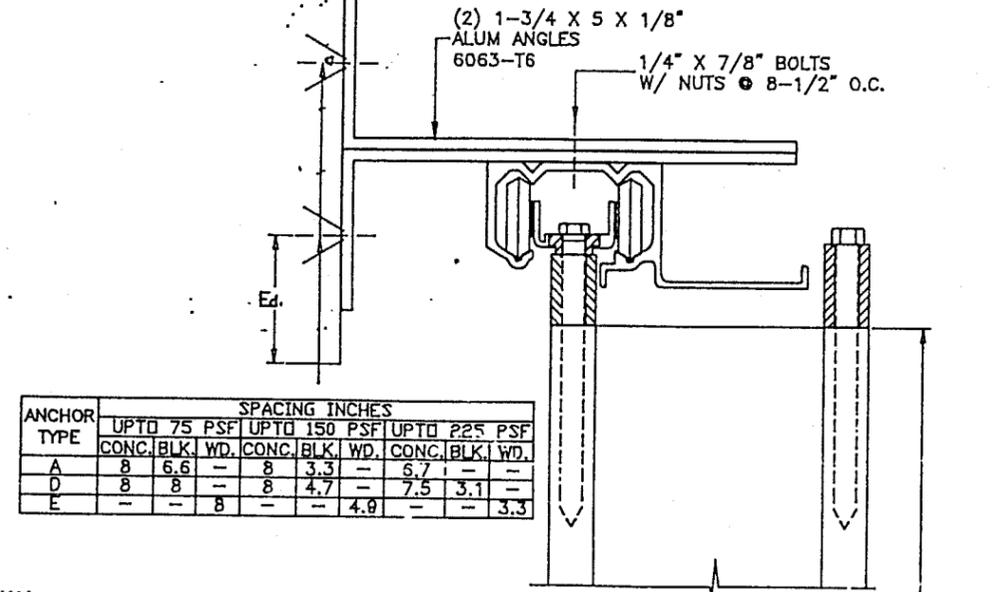
# 10 X 3/4" TEKS @ 8" O.C. BOTH SIDES

ANCHOR TYPE	SPACING INCHES					
	UPTD 75 PSF		UPTD 150 PSF		UPTD 225 PSF	
	CONC.	BLK.	CONC.	BLK.	CONC.	BLK.
A	8	6.1	7	3.1	4.7	-
D	8	8	7.8	4.2	5.2	-
E	-	-	7	-	3.5	-

Ed = TYPICAL EDGE DISTANCE  
 CONC. & BLOCK = 12d (12 ANCHOR DIAMETERS)  
 WOOD = 5d  
 FOR LESSER EDGE DISTANCES SEE SHEET 1 OF 3.

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEET 1 OF 3.  
 FOR WOOD INSTALLATIONS SEE SHEET 3 OF 3.

**BUILT-OUT CONDITION**



ANCHOR TYPE	SPACING INCHES					
	UPTD 75 PSF		UPTD 150 PSF		UPTD 225 PSF	
	CONC.	BLK.	CONC.	BLK.	CONC.	BLK.
A	8	6.6	8	3.3	6.7	-
D	8	8	8	4.7	7.5	3.1
E	-	-	8	-	4.0	-
						3.3

# 10 X 3/4" TEKS @ 8" O.C. BOTH SIDES

1/4" X 7/8" BOLTS W/ NUTS @ 12" O.C. STAGGERED

**SECTION C-C**

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

**SECTION B-B**

**PRODUCT RENEWED**

ACCEPTANCE No. 00-0607.01 ANCHORS SAME AS HEADER

EXPIRATION DATE 07/17/2003

By *Veluz A. M...*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

**PRODUCT RENEWED**

ACCEPTANCE No. 97-0527.05

EXPIRATION DATE JULY 17 2000

By *M...*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

Engr. DR. HUMAYOON FAROOQ  
 STRUCTURES  
 FLA. PE # 16557

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE

DATE SEPTEMBER 19 1996

BY *M...*

PRODUCT CONTROL DIVISION

BUILDING CODE COMPLIANCE OFFICE

ACCEPTANCE No. 96-0521.02

AUG 30 1996

**af c**

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

JCWINAC2

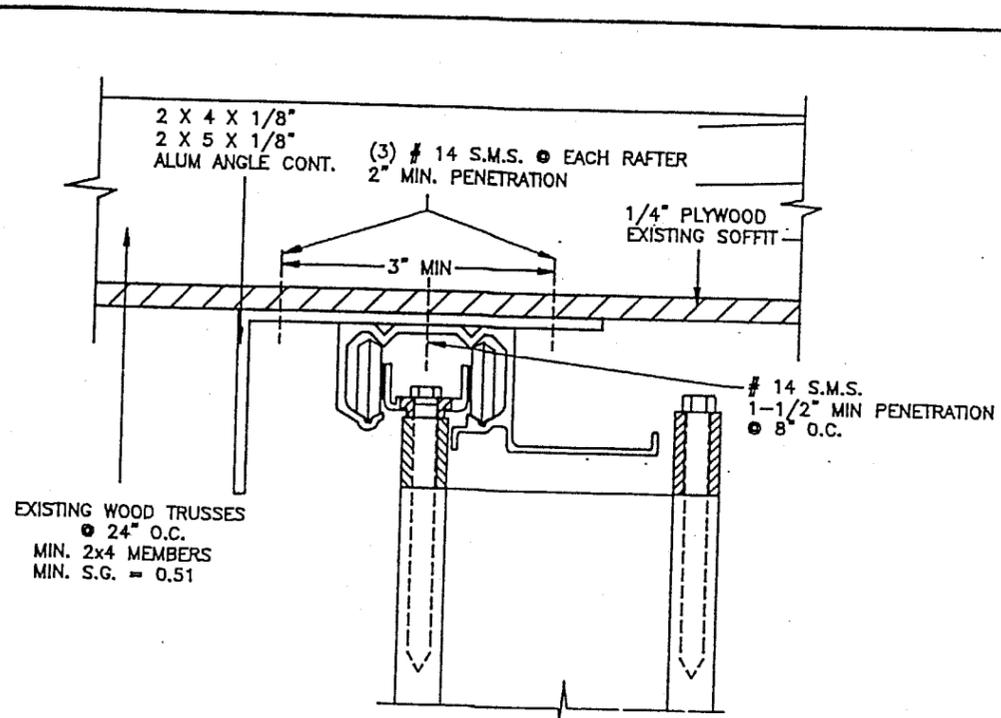
**ACCORDION SHUTTER DETAILS**

J.C. WINDOW SHUTTER MFG. CO.  
 9485 N.W. 109 ST. # 107  
 MEDLEY, FL 33178  
 (305) 557 - 7575

NO.	DATE	DESCRIPTION
A	8.11.94	T.H. NOTE ADDED
B	3.25.96	T.H. COMPLETE REVISION

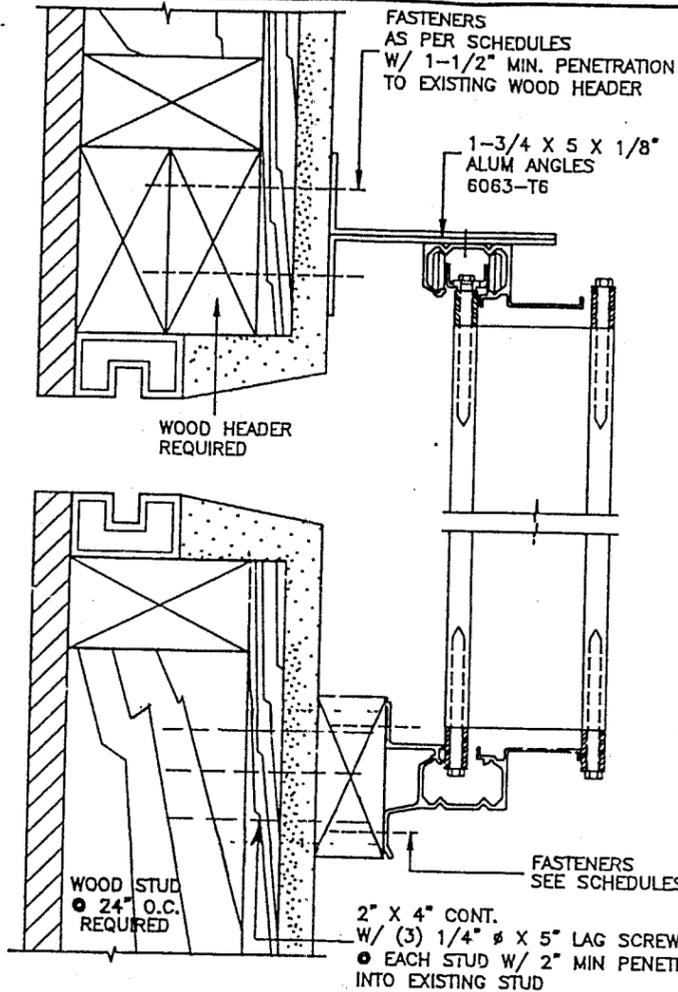
date: 06-05-94  
 scale: 1/2" = 1'-0"  
 design by: *M...*  
 drawn by: *M...*  
 checked by: *M...*

drawing no. **94-60**  
 sheet 2 of 3



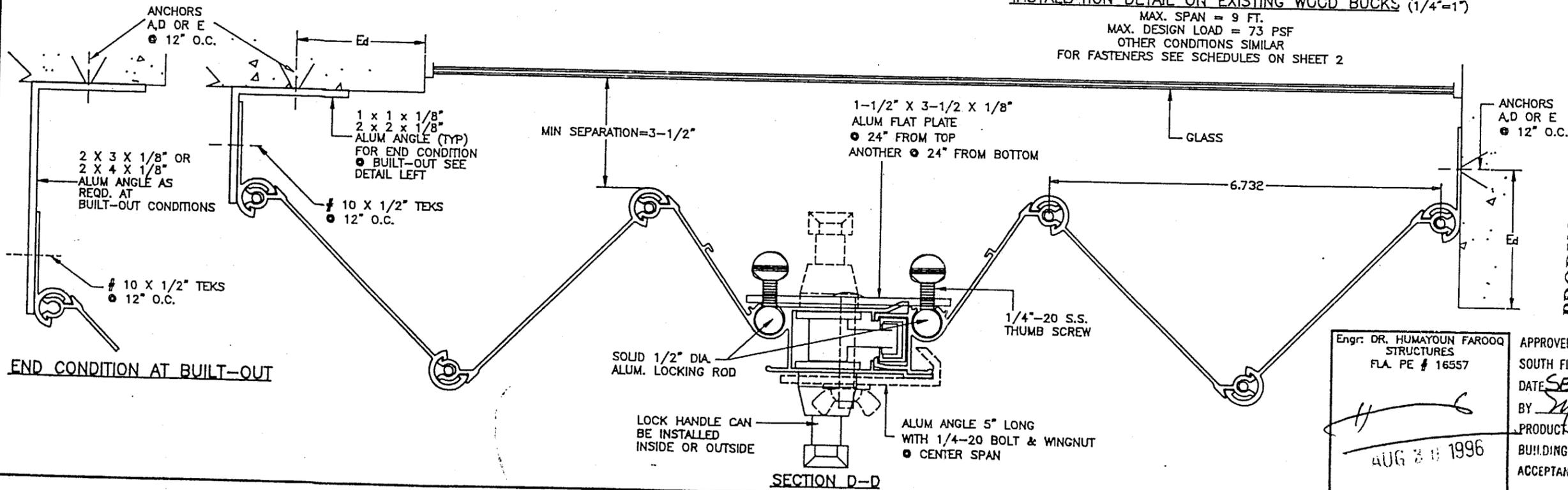
**HEADER CONNECTION TO WOOD TRUSSES**

MAX SHUTTER HEIGHT = 9 FT.  
MAX DESIGN LOAD = 89 PSF



**INSTALLATION DETAIL ON EXISTING WOOD BUCKS (1/4"=1")**

MAX. SPAN = 9 FT.  
MAX. DESIGN LOAD = 73 PSF  
OTHER CONDITIONS SIMILAR  
FOR FASTENERS SEE SCHEDULES ON SHEET 2



**PRODUCT RENEWED**

ACCEPTANCE No. 00-0607.01

EXPIRATION DATE 07/17/2003

By *Helmy A. Maher*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT TESTING  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
(305) 264-8100  
JCWINAC2

**ACCORDION SHUTTER DETAILS**  
J.C. WINDOW SHUTTER MFG. CO.  
9485 N.W. 109 ST. # 107  
MEDLEY, FL 33178  
(305) 557 - 7575

**PRODUCT RENEWED**  
ACCEPTANCE No. 96-0521.05  
EXPIRATION DATE JULY 17, 2000  
By *Muhammad Farooq*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

Engr. DR. HUMAYOON FAROOQ  
STRUCTURES  
FLA. PE # 16557  
*H*  
AUG 20 1996

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE SEPTEMBER 19, 1996  
BY *Muhammad Farooq*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 96-0521.02

no.	date	by	description
A	8.11.94	T.H.	NOTE ADDED
B	3.25.96	T.H.	COMPLETE REVISION

date: 08-03-94	scale: 1/2" = 1"
design by: <i>Muhammad Farooq</i>	drawn by: HAMID
checked by:	

drawing no. **94-60**  
sheet 3 of 3