



**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**

**Folding Shutter Corporation**  
**7089 Hemstreet Place**  
**West Palm Beach ,FL 33413**

Your application for Notice of Acceptance (NOA) of:

**"Titan" Aluminum Storm Panels 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.: 00-0614.01**  
**EXPIRES: 11/20/2003**

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: 10/05/2000**



**Folding Shutter Corporation**

ACCEPTANCE No. : 00-0614.01

APPROVED : OCT 05 2000

EXPIRES : 11/20/2003

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

This revises and renews the Notice of Acceptance No. 98-0508.08, which was issued on September 10, 1998. It approves an aluminum storm panel 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 storm panel type shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 94-34, titled "Storm Panel Details", prepared by Al-Farooq Corporation, dated June 3, 1994, last revision #F dated June 9, 2000, sheets 1 through 6 of 6, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date 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 storm panel type shutter and its components shall be installed in strict compliance with the approved drawings.

**5. LABELING**

Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

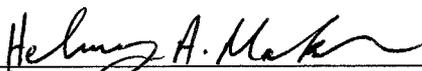
**6. BUILDING PERMIT REQUIREMENTS**

**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.

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

**Folding Shutter Corporation**

ACCEPTANCE No. : 00-0614.01

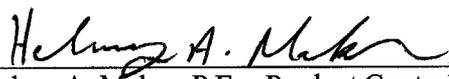
APPROVED : OCT 0 5 2000

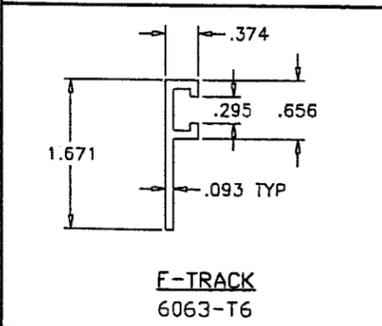
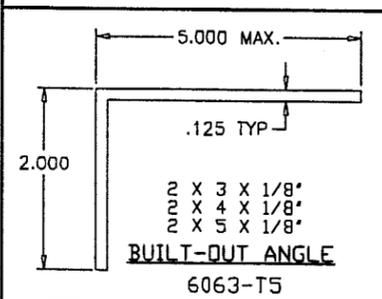
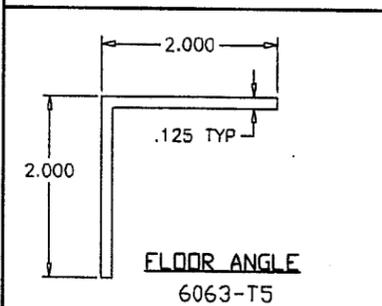
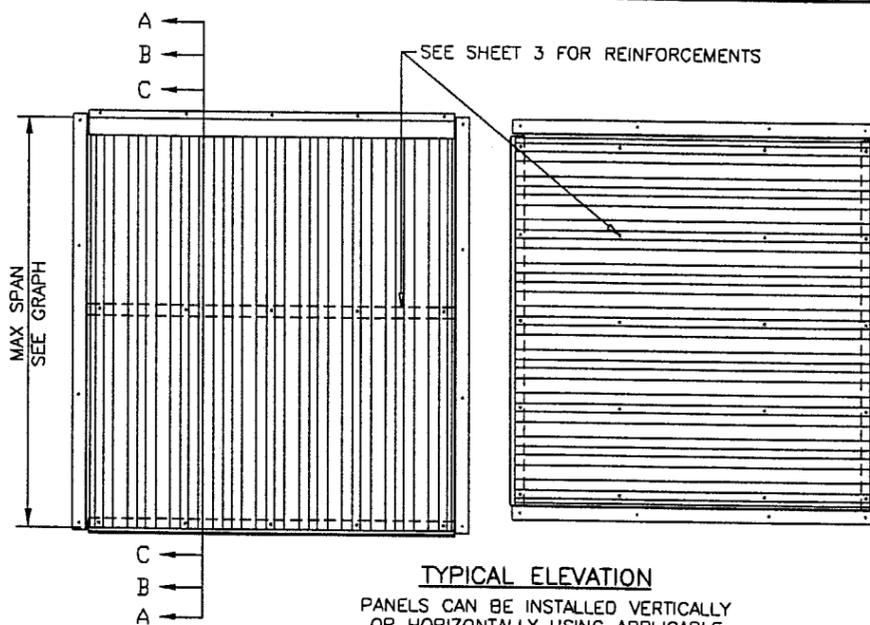
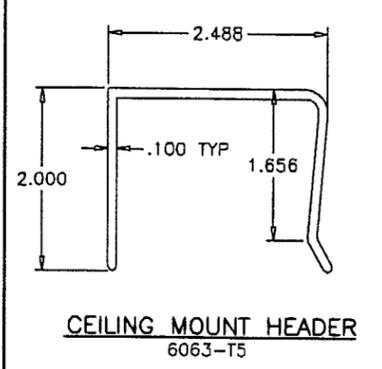
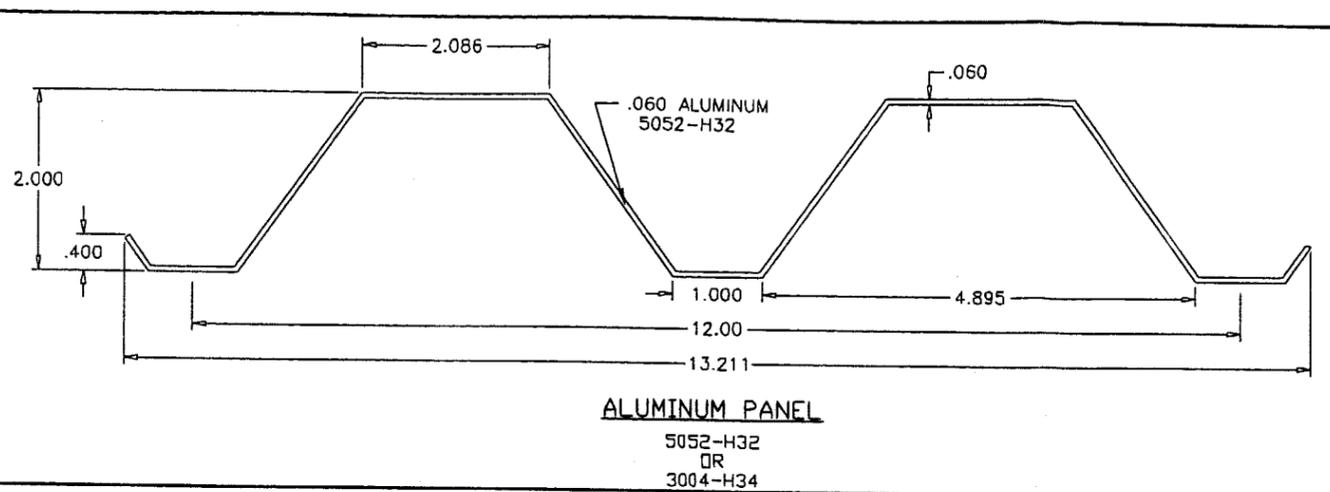
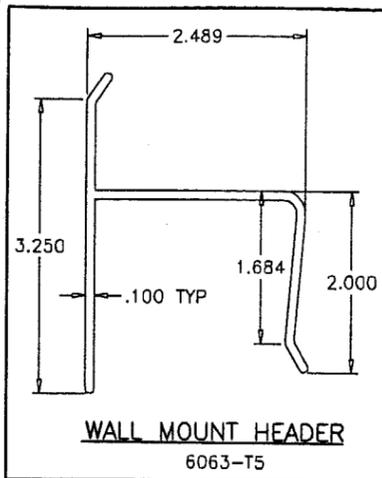
EXPIRES : 11/20/2003

**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

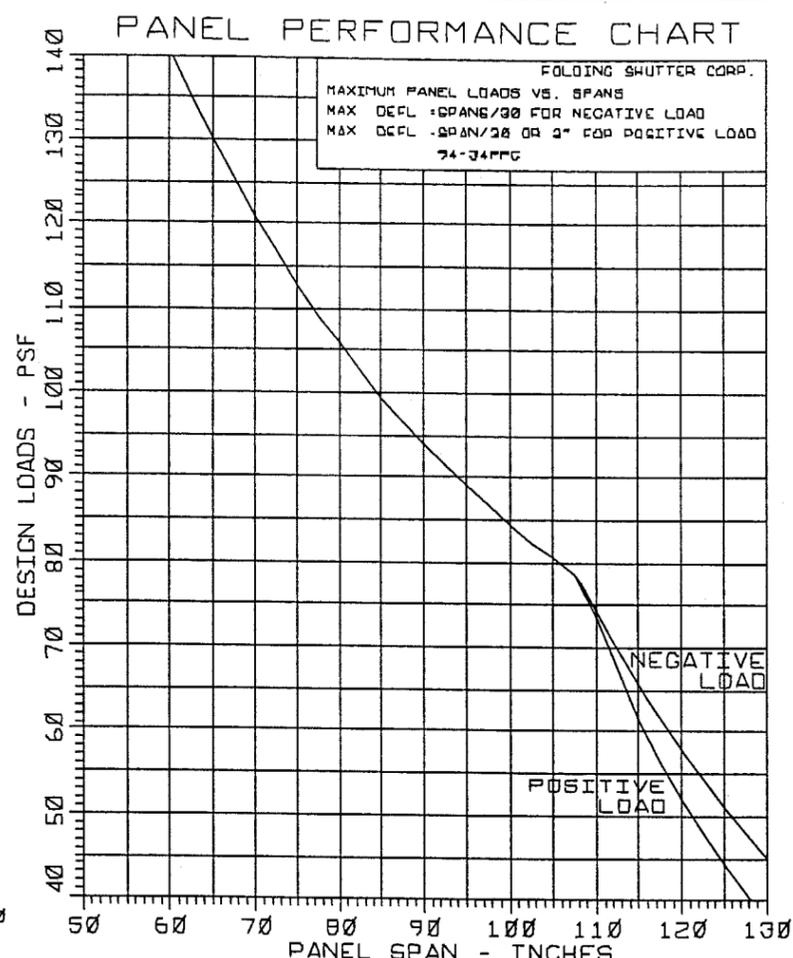
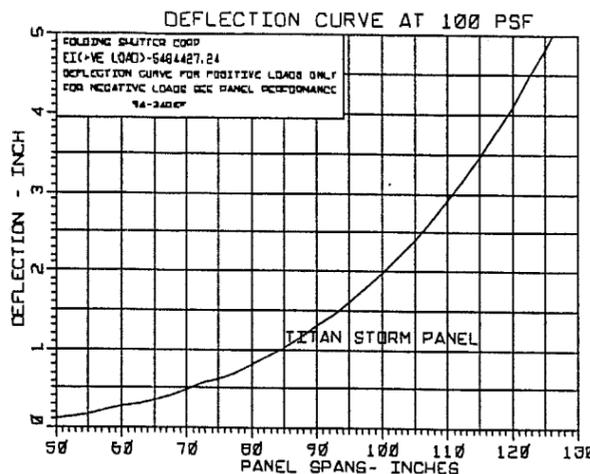
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the 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



- 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-T5.
  - 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 SHALL BE STAINLESS STEEL, ALUMINUM ALLOY 2024-T4 OR 7075-T6. WING NUTS SHALL BE OF ZINC ALLOY.
  - DESIGN CRITERIA FOR PANELS: MAX DEFLECTION <math>L/30</math> FOR NEGATIVE LOAD AND THE LESSER OF  $L/30</math> OR 2" FOR POSITIVE LOAD.$
  - ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
  - EXISTING STRUCTURES MUST BE CAPABLE OF SUSTAINING LOADS IMPOSED BY SHUTTER.
  - EACH OPENING SHALL HAVE A LEGIBLE AND READILY VISIBLE DECAL OF PRINTED INSTRUCTIONS TO THE OWNER OR TENANT INDICATING THE MANDATORY USE OF REINFORCEMENTS (ALUMINUM STRAP AT MIDSPAN OR ROWS OF JACK NUTS AT LAP JOINTS) DURING PERIODS OF HURRICANE WARNING.



USE PANEL PERFORMANCE CHART TO VERIFY PANEL CAPACITY FOR THE REQUIRED DESIGN LOAD FOR THE PARTICULAR LOCATION. USE SPAN DEFLECTION CHART TO CALCULATE SEPARATION FROM GLASS.

MINIMUM SEPARATION FROM GLASS		
SEPARATION REQD. DUE TO WIND LOAD		SEPARATION FOR INSTALLATIONS UPTO 30 FT. OF GRADE DUE TO LARGE MISSILE IMPACT
SHUTTER SPAN = H =	IN.	PANEL SPAN UPTO SEPARATION
DESIGN LOAD = Pd =	PSF	65" 2-3/8"
FACTOR = K = Pd/100 =	IN.	97" 2-5/8"
READING FROM SPAN D. CURVE = D =	IN.	98" 3" *
DEFLECTION AT Pd = K*D =	IN.	130" 3-1/2"
MIN. SEPARATION REQD. = K*D+1" =	IN.	

FOR INSTALLATIONS UPTO 30' OF GRADE USE MAXIMUM OF WIND LOAD OR IMPACT LOAD REQUIREMENTS SHOWN ABOVE  
 FOR INSTALLATIONS ABOVE 30' OF GRADE IGNORE LARGE MISSILE IMPACT REQUIREMENT.  
 NOTE: NO PART OF SHUTTER SHALL BE UNDER 30' ABOVE GRADE TO WAIVE LARGE MISSILE IMPACT REQUIREMENT.  
 \* FOR BUILT-OUT WITH 2X5 ANGLE ONLY

**PRODUCT MARKING**

A LABEL SHALL APPEAR ON EVERY PANEL WITH THE FOLLOWING STATEMENT.  
 FOLDING SHUTTER CORP. WEST PALM BEACH, FL  
 "DADE COUNTY PRODUCT CONTROL APPROVED"

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-88, BASED ON 110 MPH WIND VELOCITY.  
 FOR INSTALLATION DETAILS SEE SHEET 2, 3 & 4.  
 FOR ANCHOR REQUIREMENTS SEE SHEET 5 OF 6.

Engr: DR. HUMAYGUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557

*[Signature]*  
 JUN 12 2000

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE: *October 05, 2000*  
 BY: *[Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. *00-0614.01*

**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX (305) 262-6978  
 PANELS 94-34FSC

**STORM PANEL DETAILS**  
 FOLDING SHUTTER CORP.  
 7089 HEMSTREET PLACE  
 WEST PALM BEACH, FL 33406  
 TEL.(561) 683-4811 FAX.(561) 640-8204

no	date	by	description
B	11.22.94	H	WOOD DETAIL ADDED
C	11.30.94	H	WOOD DETAIL REVERSED
D	10.15.97	H	GENERAL REVISION
E	07.27.98	H	GENERAL REVISION
F	06.09.00	H	ALT. ALUM ALLOY ADDED

date: 06-03-94  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:  
 drawing no. 94-34  
 sheet 1 of 6

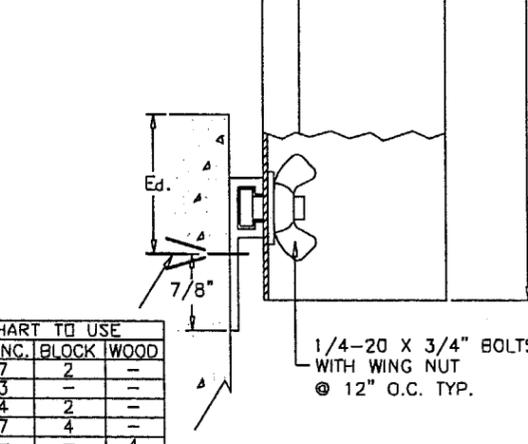
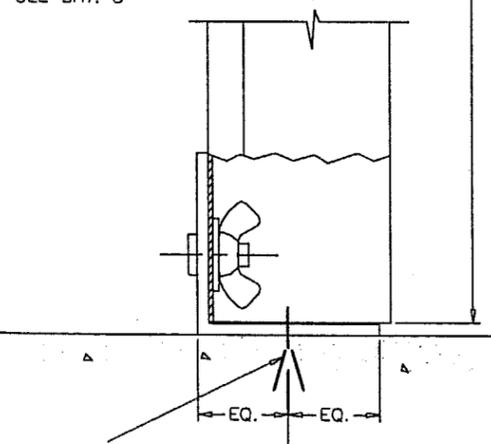
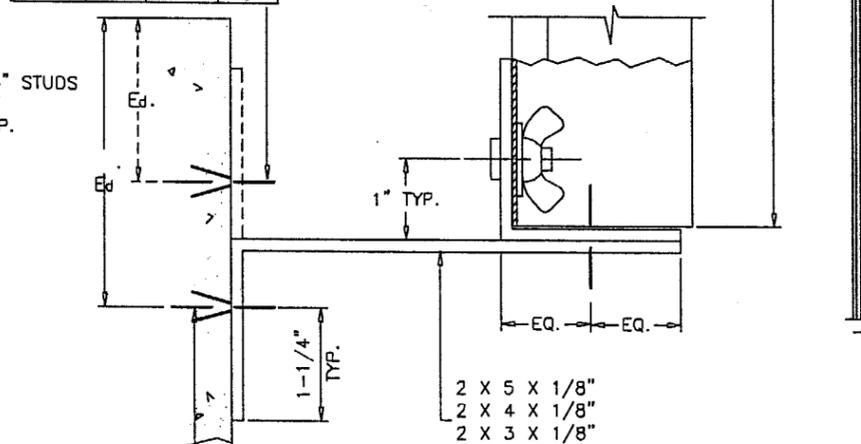
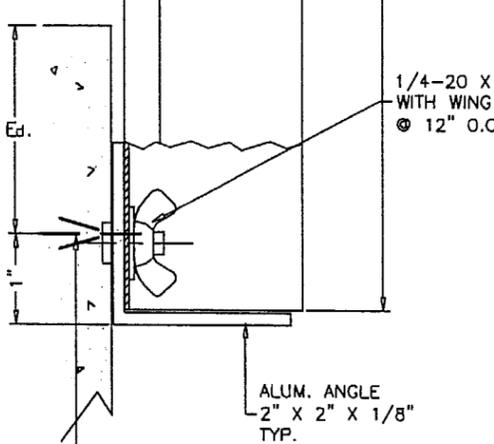
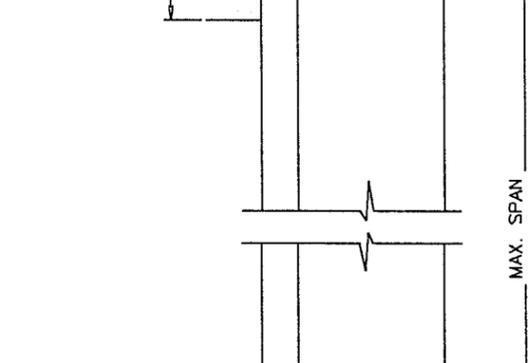
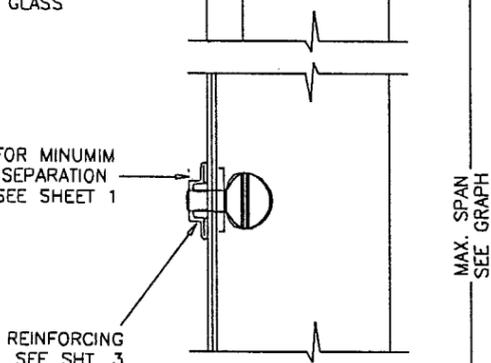
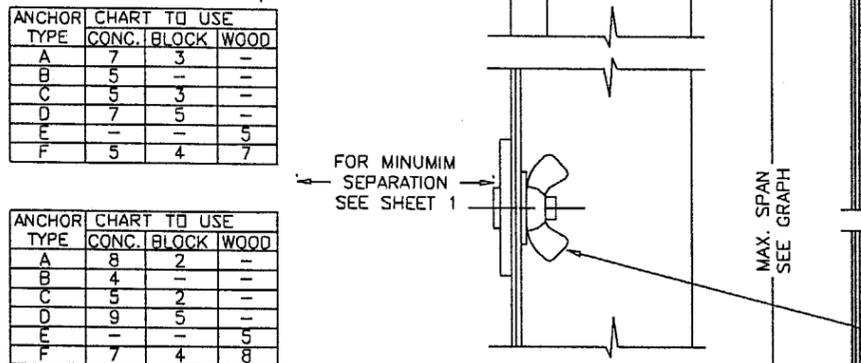
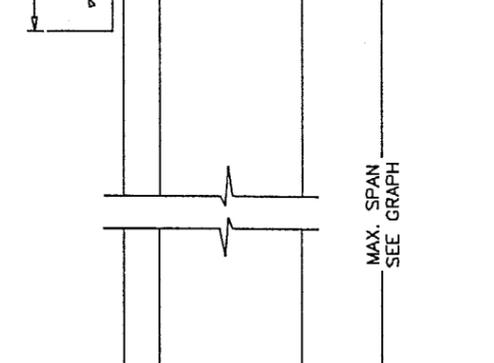
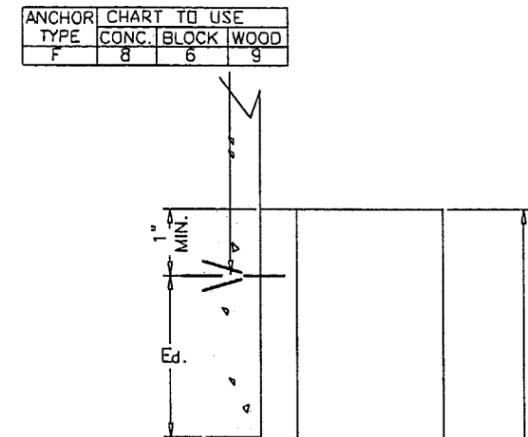
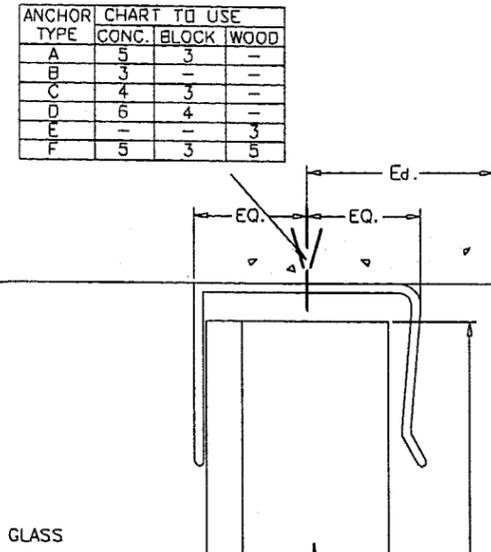
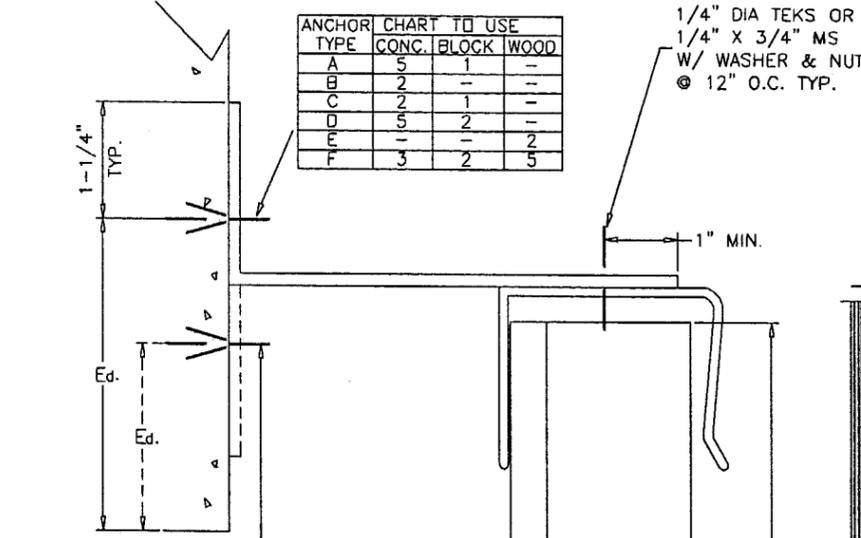
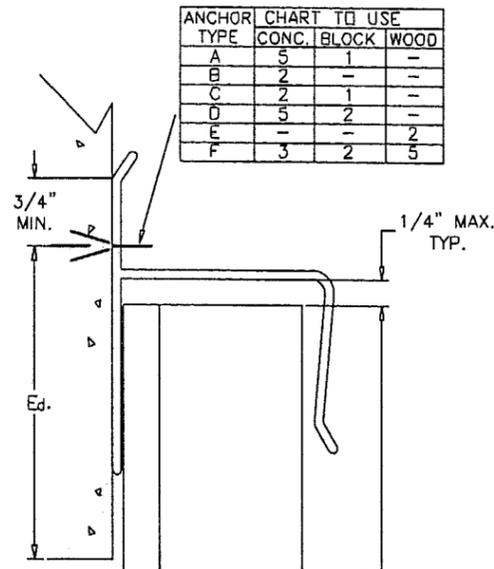
00-0614.01

WALL MOUNTS

BUILT-OUT CONDITION

INSIDE MOUNTS

DIRECT MOUNTS



ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	7	3	-
B	4	-	-
C	5	3	-
D	8	5	-
E	-	-	5
F	6	4	7

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	5	1	-
B	1	-	-
C	2	1	-
D	5	2	-
E	-	-	2
F	4	1	5

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	5	3	-
B	3	-	-
C	4	3	-
D	6	4	-
E	-	-	3
F	5	3	5

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	7	2	-
B	3	-	-
C	4	2	-
D	7	4	-
E	-	-	4
F	5	3	7

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

HEADER AND SILL DETAILS CAN BE USED IN ANY COMBINATIONS.

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

Ed = TYPICAL EDGE DISTANCE  
CONC. & BLOCK = 12d (12 ANCHOR DIAMETERS)  
WOOD = 5d  
FOR LESSER EDGE DISTANCES SEE SHEET 5 OF 6.

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEET 1 OF 6.

Engr. DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 18557

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE October 05 2000  
BY H. Hamid  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 00-0614.01

JUN 12 2000

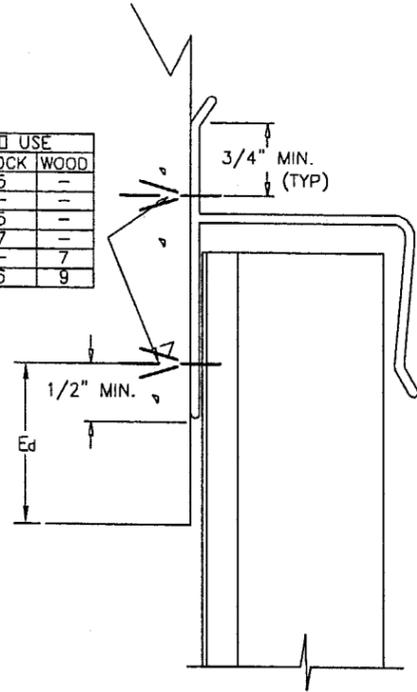
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978

STORM PANEL DETAILS  
FOLDING SHUTTER CORP.  
7089 HEMSTREET PLACE  
WEST PALM BEACH, FL 33406  
TEL. (561) 683-4811 FAX. (561) 640-8204

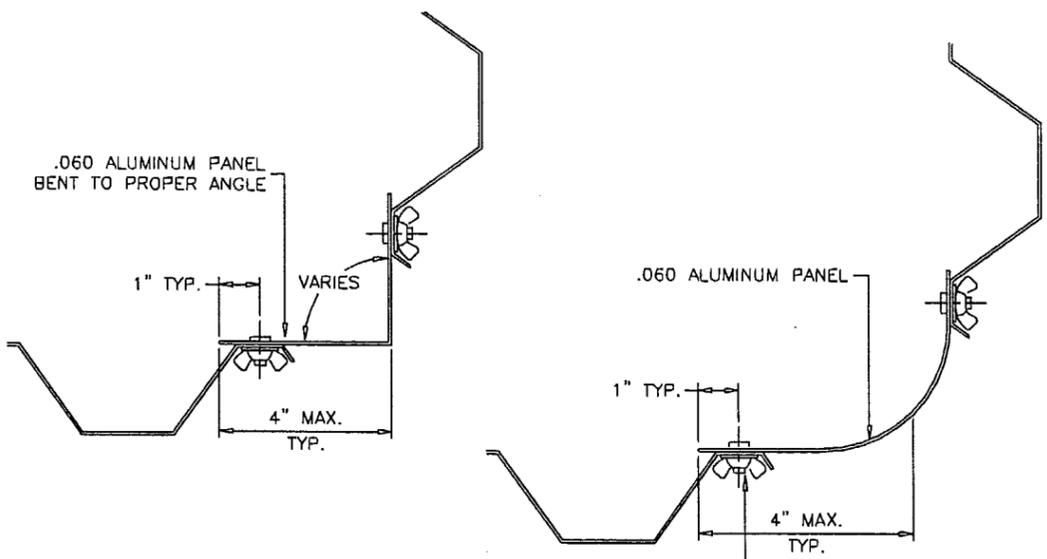
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date: 06-03-94  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:  
drawing no. **94-34**  
sheet 2 of 6

ANCHOR TYPE	CHART TO USE		
	CONC.	BLOCK	WOOD
A	9	5	-
B	7	-	-
C	7	5	-
D	10	7	-
E	-	-	7
F	8	6	9

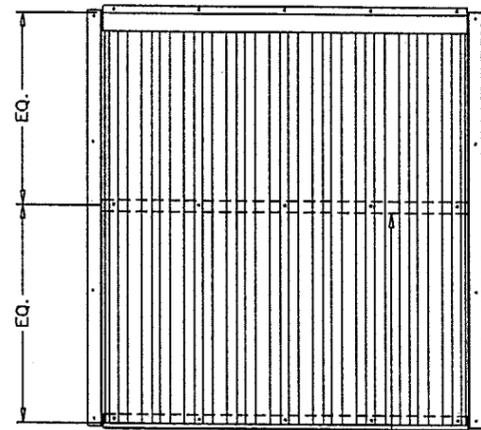


ALT. WALL HEADER

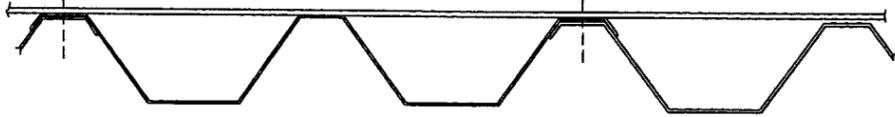


CORNER DETAILS

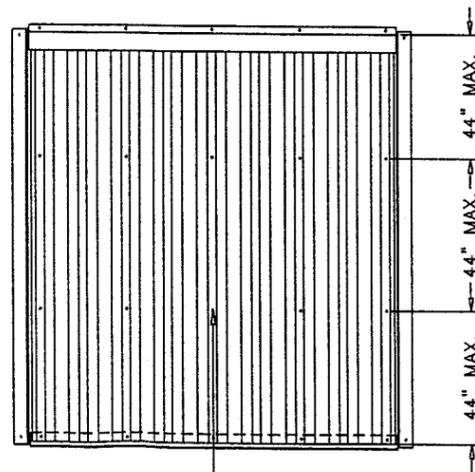
1/4" Ø X 1/2" THUMB SCREWS IN MOLLY JACK NUTS @ 24" O.C.



1-1/2" X 1/8" ALUM. STRAP (6063-T6) AT MID SPAN FASTENED W/ 1/4"-20 X 3/4" STUDS W/ WING NUT & WASHER @ 12" O.C.



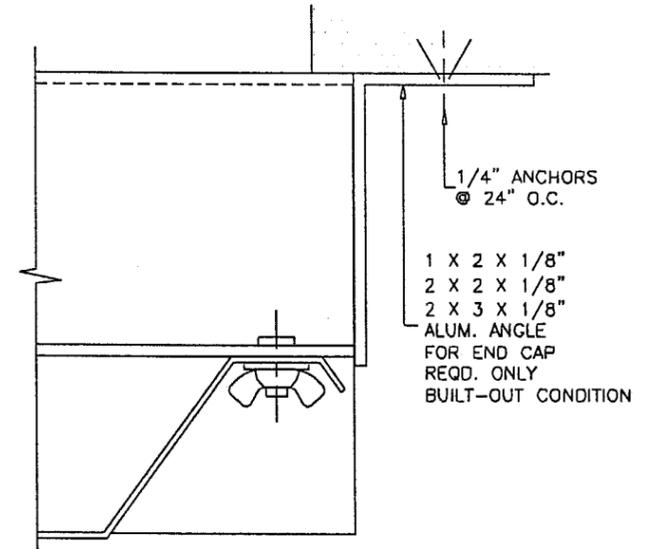
STRAP REINFORCEMENT



1/4" MACHINE SCREWS WITH WASHERS IN JACK NUTS AT LAP JOINTS



JACK NUTS REINFORCEMENT



END CAP BUILT-OUT CONDITION

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

JUN 12 2000

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE October 05, 2000 BY Helmy A. Helmy PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 00-0614.01

afsc

AL-FAROOQ CORPORATION ENGINEERS, PLANNERS & PRODUCT DESIGN 1235 SW 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978

STORM PANEL DETAILS FOLDING SHUTTER CORP. 7089 HEMSTREET PLACE WEST PALM BEACH, FL 33406 TEL.(561) 683-4811 FAX.(561) 640-8204

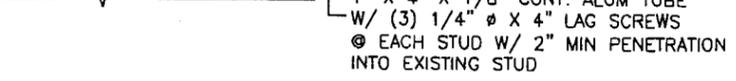
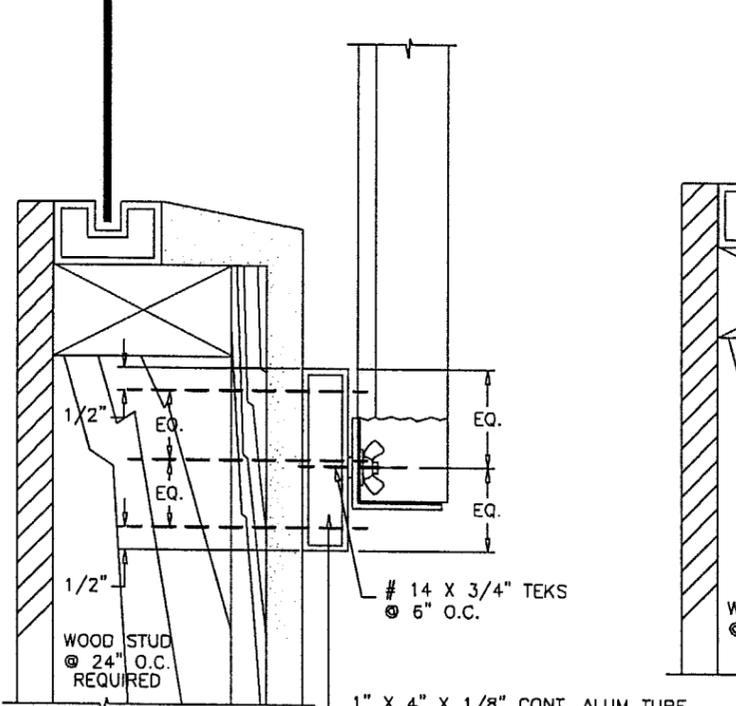
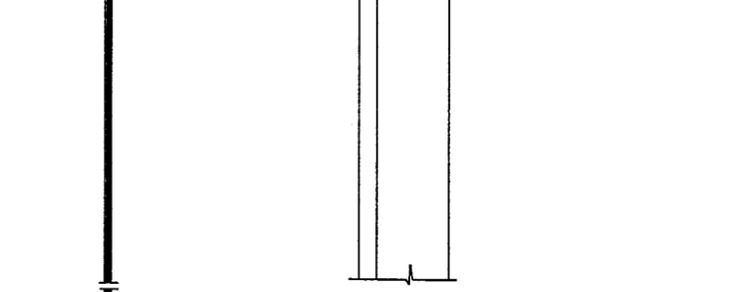
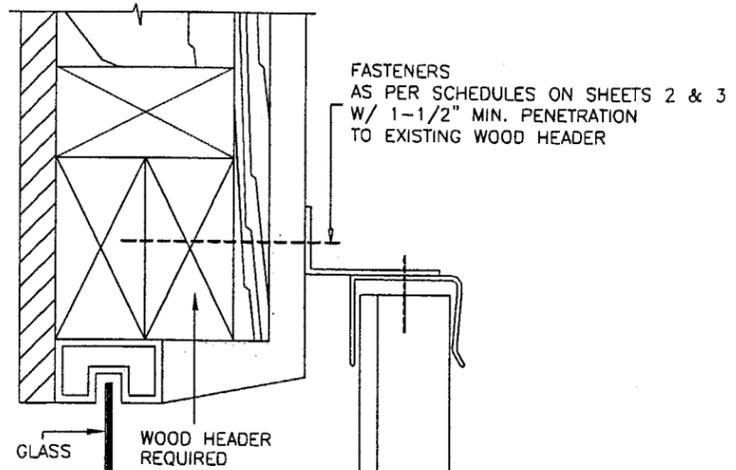
no	date	by	description

date: 06-03-94 scale: 1/2" = 1" dr. by: HAMID chk. by:

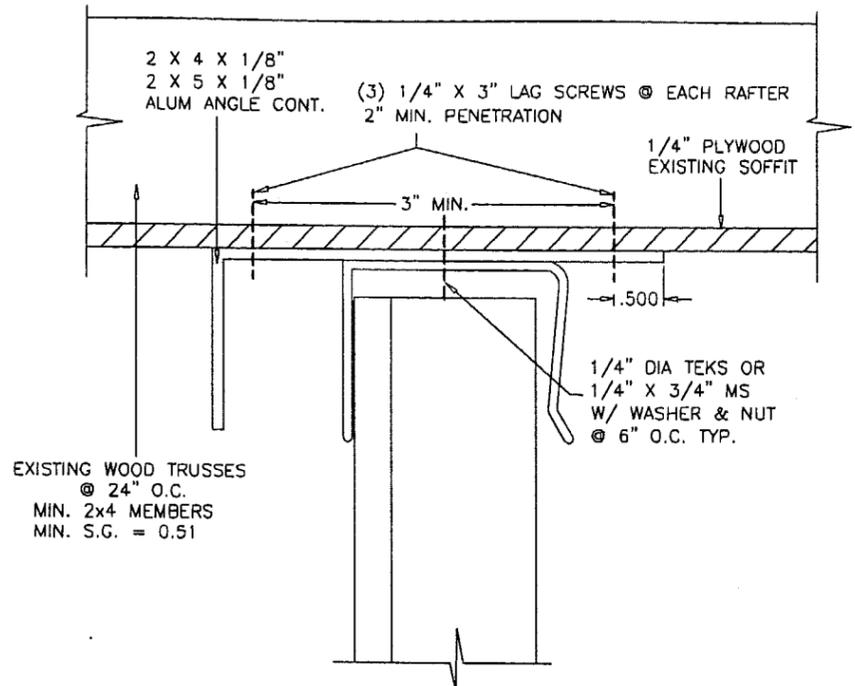
drawing no. 94-34

sheet 3 of 6

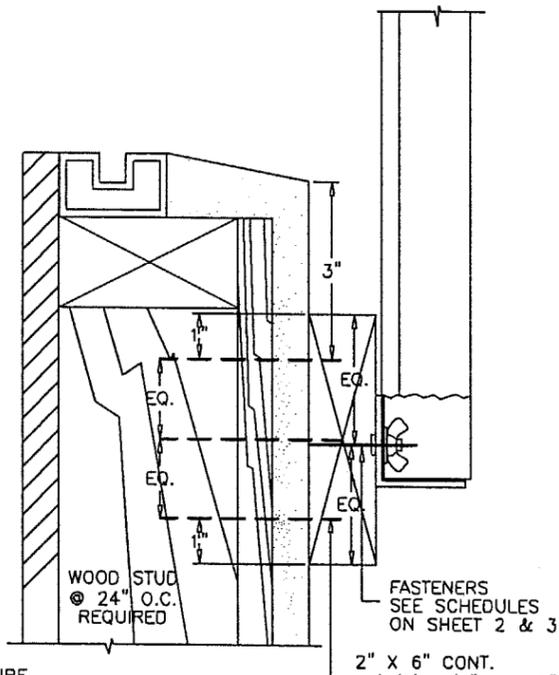
PANELS 94-34FSC



**INSTALLATION DETAIL ON EXISTING WOOD BUCKS** SCALE: 1/4"=1"  
 FOR SHUTTER HEIGHT OF 110" MAX. DESIGN LOAD = 84.0 PSF  
 FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 99.0 PSF  
 FOR HEADER/SILL DETAILS CONNECTED TO CONTINUOUS WOOD MEMBERS SEE SHEETS 2 & 3.

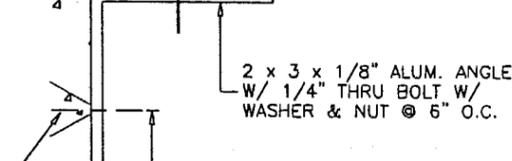
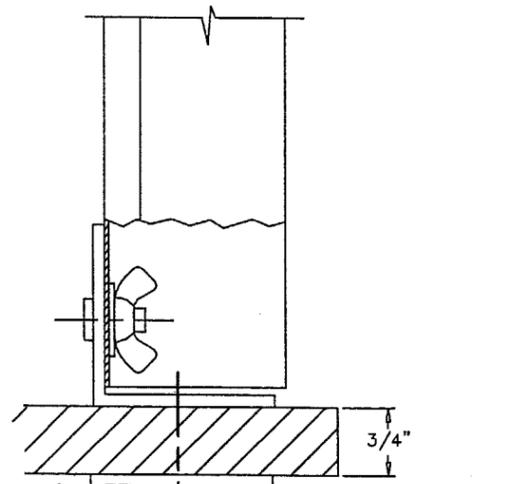


**HEADER CONNECTION TO WOOD TRUSSES**  
 FOR SHUTTER HEIGHT OF 110" MAX. DESIGN LOAD = 58 PSF  
 FOR SHUTTER HEIGHT OF 86" MAX. DESIGN LOAD = 74 PSF



ANCHOR TYPE	ANCHOR SPACING INCHES					
	UPTO 40 PSF			UPTO 70 PSF		
	CONC.	BLOCK	WOOD	CONC.	BLOCK	WOOD
A	23	7	-	13	4	-
B	11	-	-	6	-	-
C	10	7	-	6	4	-
D	24	11	-	15	6	-
E	-	-	11	-	-	6
F	16	10	22	9	5	13

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



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

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE October 05 2000  
 BY Heung A. Huh  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0614.01

**JUN 12 2000**

**afc**

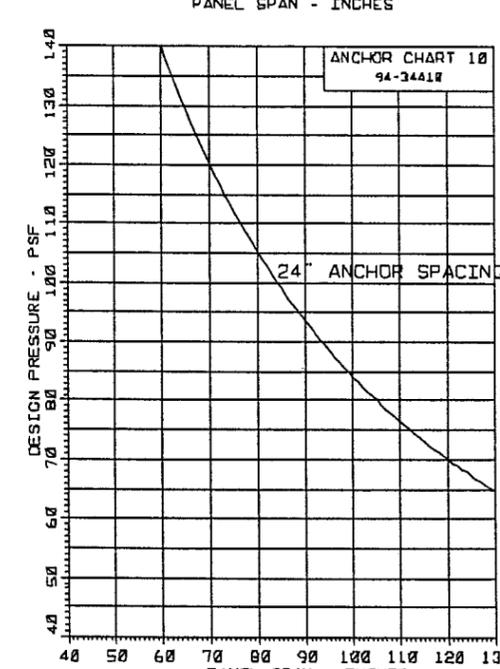
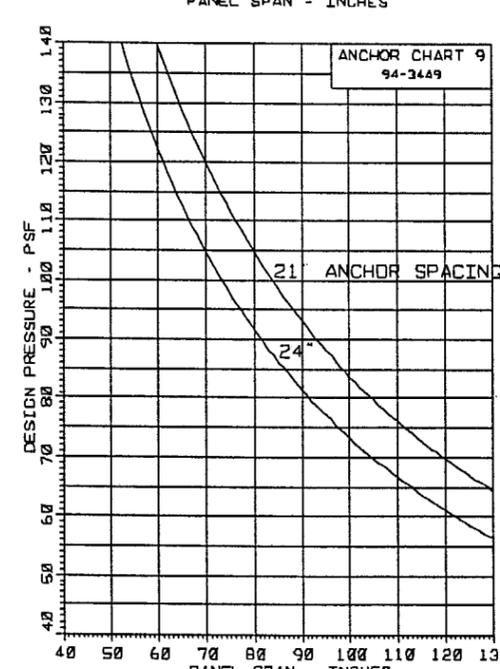
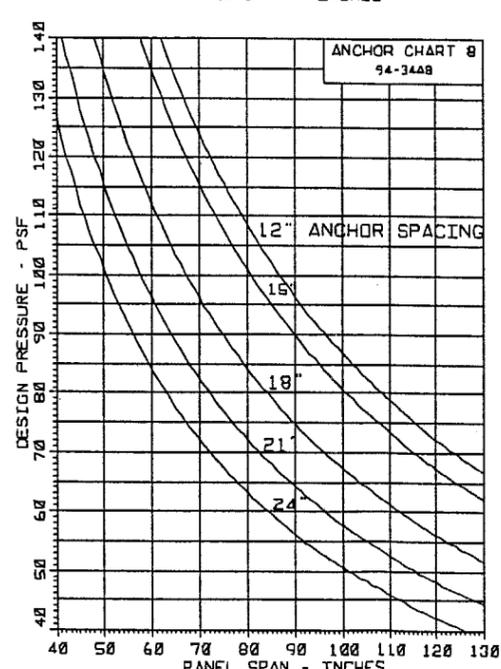
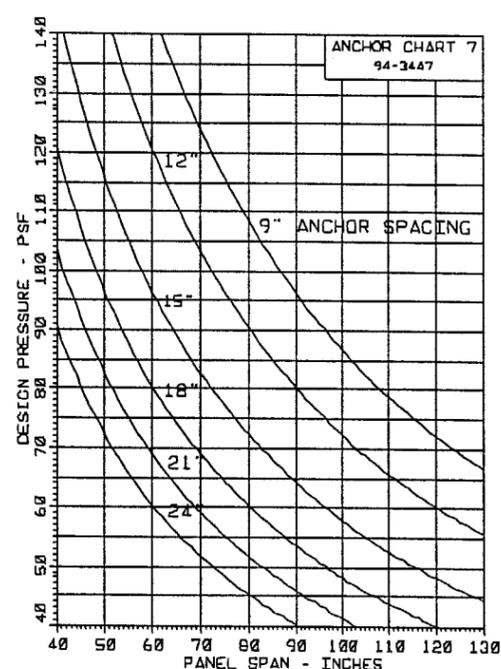
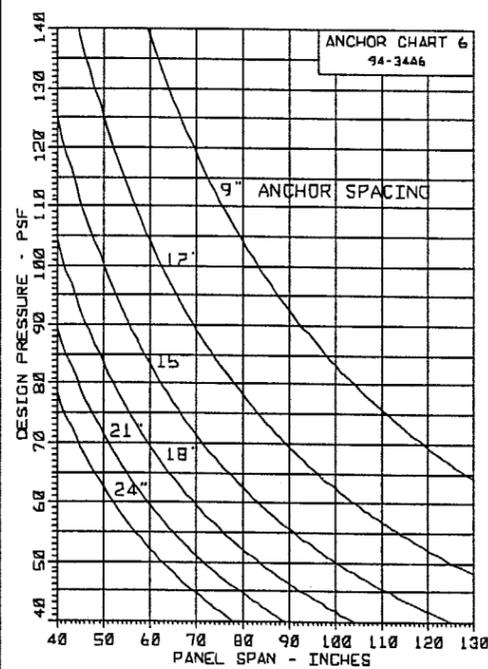
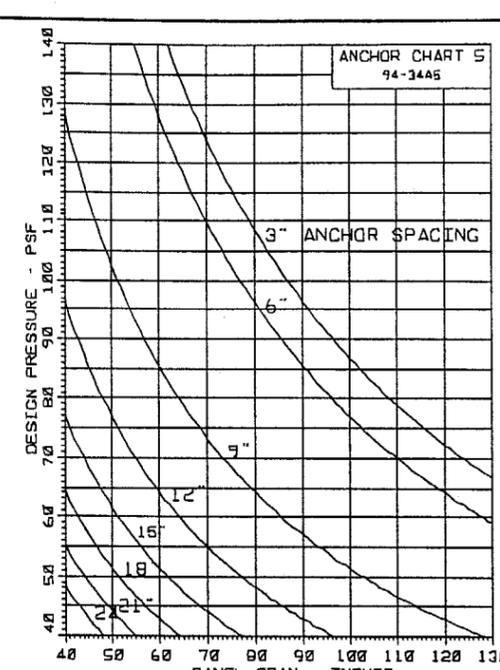
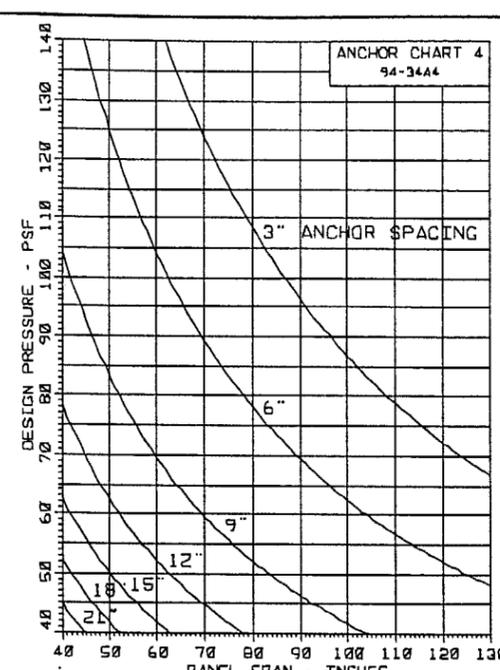
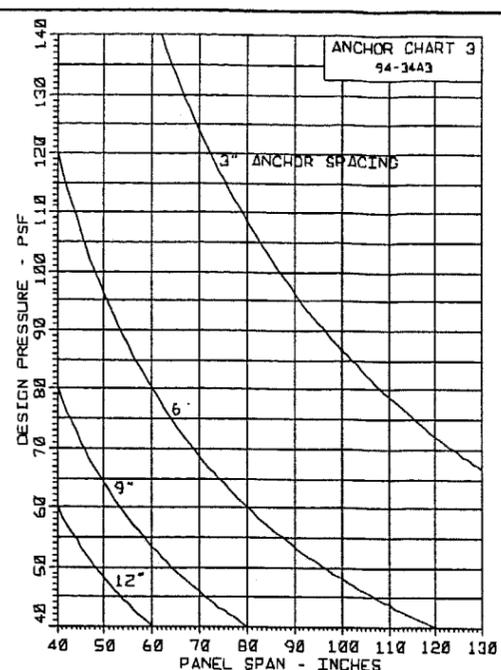
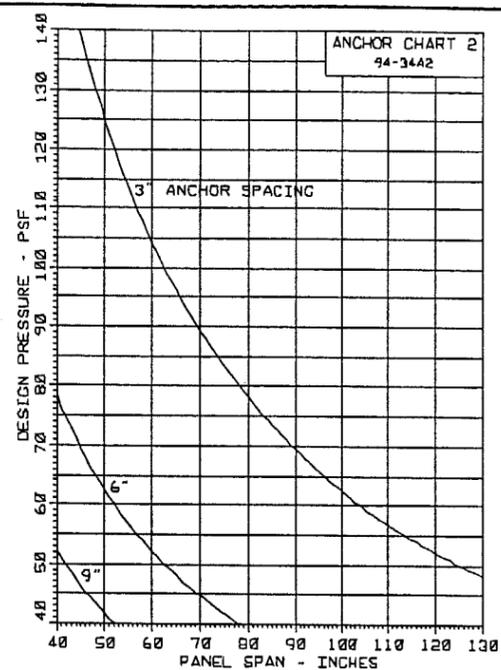
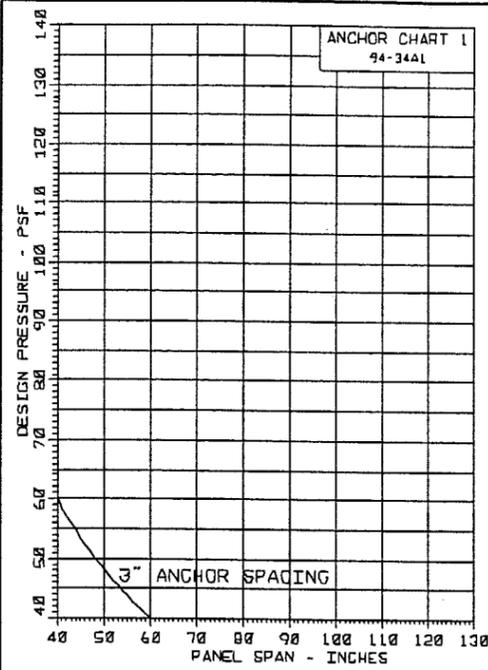
**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978

**STORM PANEL DETAILS**  
 FOLDING SHUTTER CORP.  
 7089 HEMSTREET PLACE  
 WEST PALM BEACH, FL 33406  
 TEL.(561) 683-4811 FAX.(561) 640-8204

revisions:	no	date	by	description

date: 06-03-94  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**94-34**  
 sheet 4 of 6



**TYPICAL ANCHORS**

- ANCHOR (A) = 1/4" DIA. TAPCONS, BY ITW BUILDEX (NOA # 96-1226.03)  
1-3/4" EMBEDMENT TO CONC.  
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" RAWL ZAMAC NAILIN.  
1" EMBEDMENT TO CONCRETE OR BLOCK
- ANCHOR (D) = 1/4" RAWL CALK-IN.  
7/8" MIN. EMBED INTO CONC. OR BLOCK
- ANCHOR (E) = #14 SMS / LAG SCREWS  
1-1/2" MIN PENETRATION INTO WOOD(S.G.=0.47)
- ANCHOR (F) = 1/4" DIA. PANELMATE ANCHORS (ELCO-TEXTRON)  
1-7/8" EMBEDMENT TO CONC.  
1-1/4" EMBEDMENT TO BLOCK  
1-7/8" MIN PENETRATION INTO WOOD(S.G.=0.47)

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					

USE CHARTS 1 THRU 10 TO VERIFY ANCHOR REQUIREMENTS AND STRESS LIMITATIONS OF LOAD/SPAN COMBINATIONS FOR HEADER AND SILL.

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

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 18557

*JUN 12 2006*

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE: *October 05, 2000*  
BY: *Hamid A. Hamid*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *00-0614.01*

*afc*

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PANELS\94-34FSC

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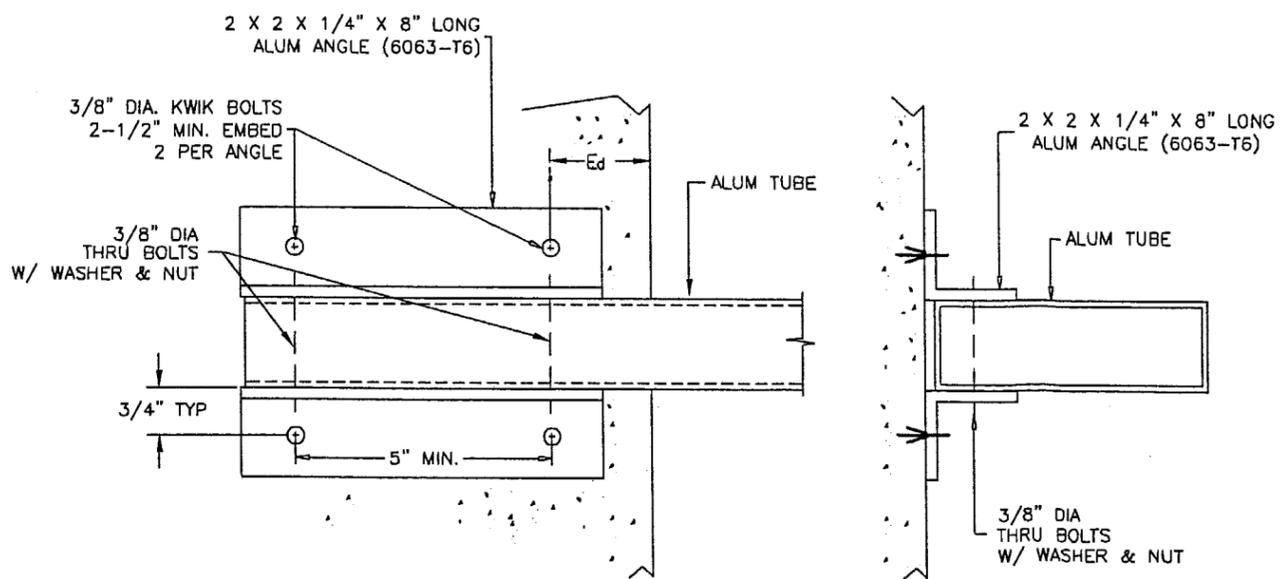
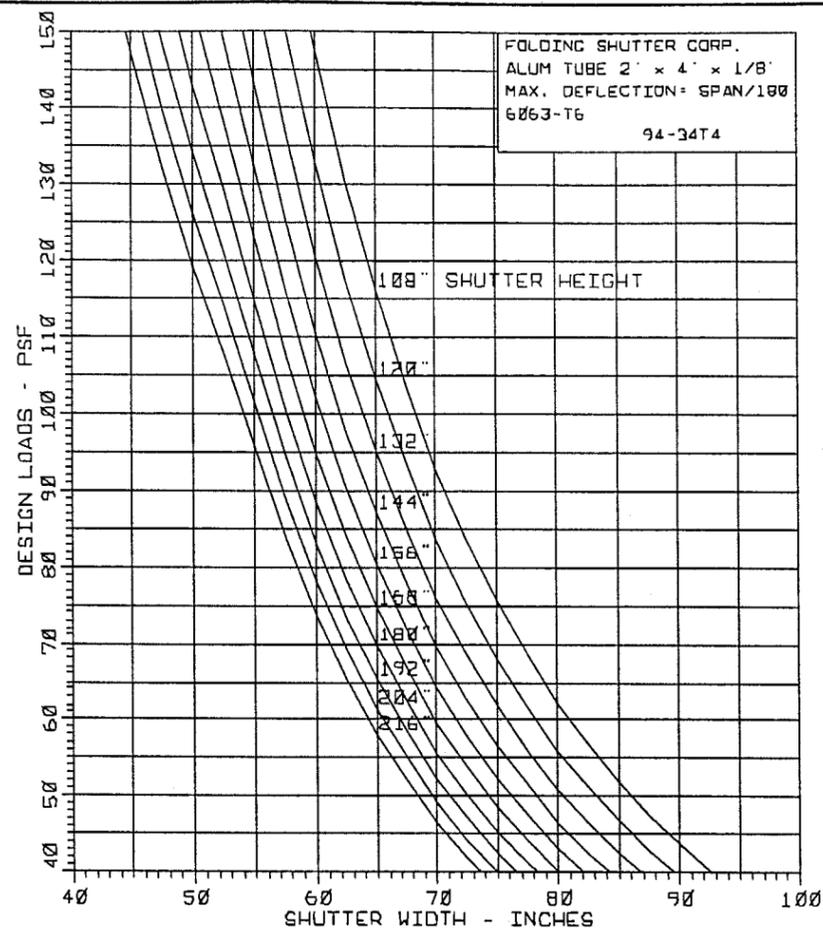
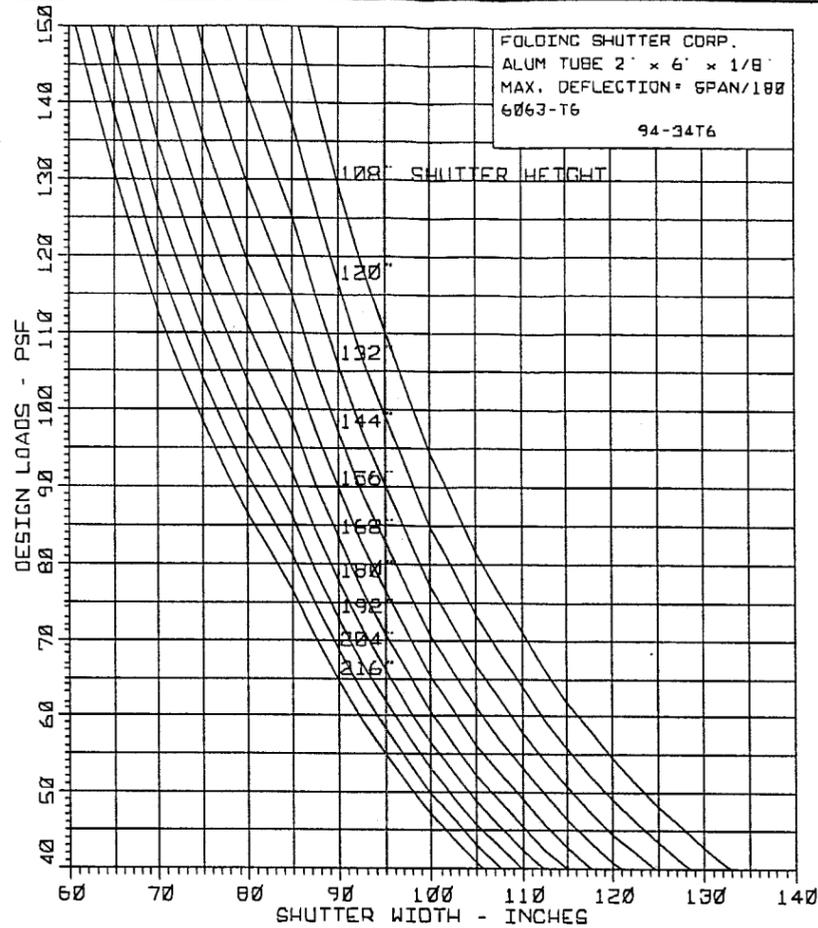
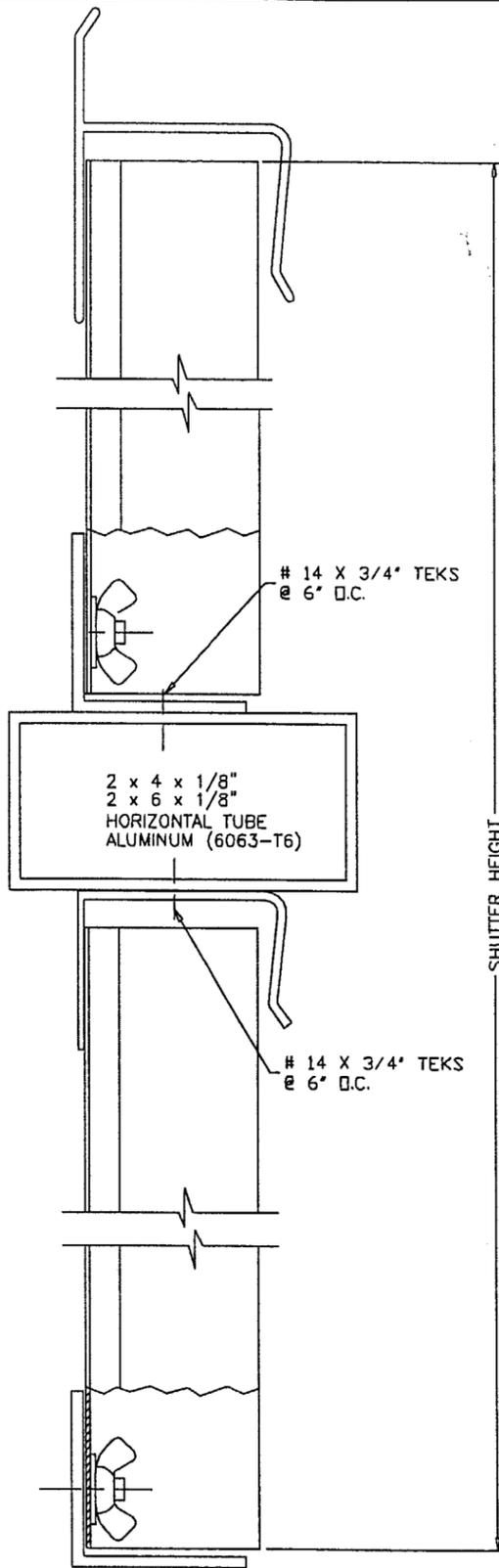
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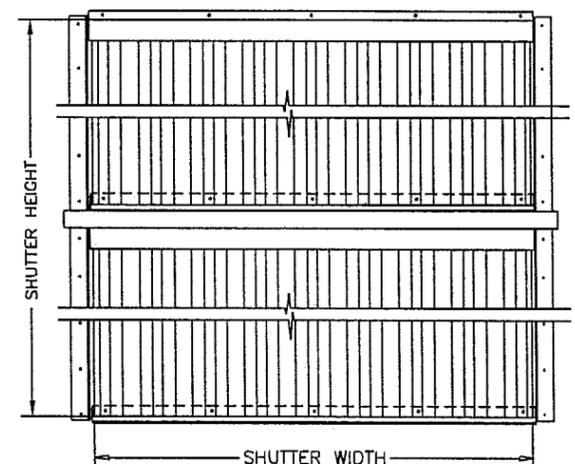
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dr. by: HAMID  
chk. by:

drawing no. **94-34**  
sheet 5 of 6



SCALE : 1/4"=1"



TUBES MAY BE USED VERTICALLY FOR HORIZONTAL PANEL INSTALLATION.

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

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE

DATE: *October 05, 2000*

BY: *Helmy A. Elshor*

PRODUCT CONTROL DIVISION

BUILDING CODE COMPLIANCE OFFICE

ACCEPTANCE NO. *00-0614.01*

JUN 12 2000

FOR HEAD & SILL COMBINATIONS SEE TYPICAL DETAILS AND SCHEDULES

END CLOSURE ANGLE REQ. ONLY ON BUILT-OUT CONDITION.

*afsc*

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