



**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)

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

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: Series "Titan III Folding Shutter" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No 95-16, titled "Titan III Folding Shutter Details," Sheets 1 through 3 of 3, prepared, signed and sealed by Al-Farooq Corporation, dated 9/16/98, 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.

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 following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

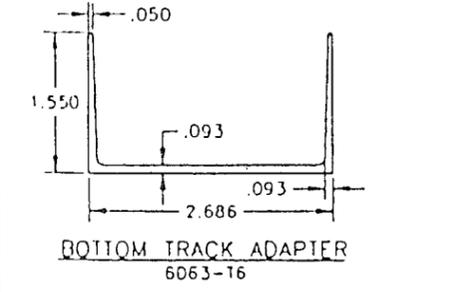
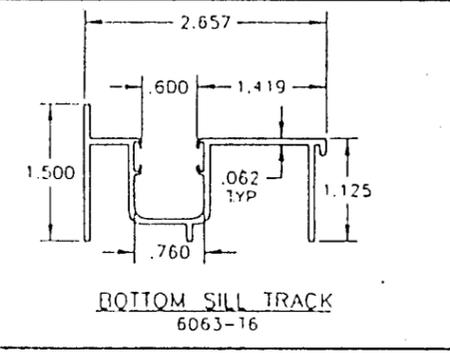
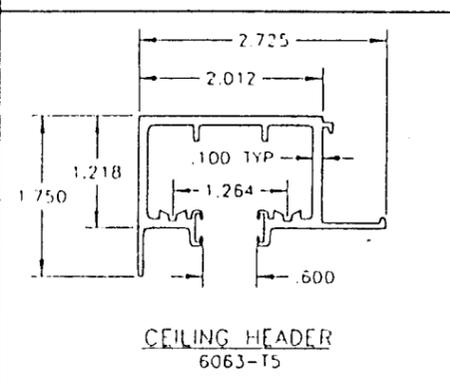
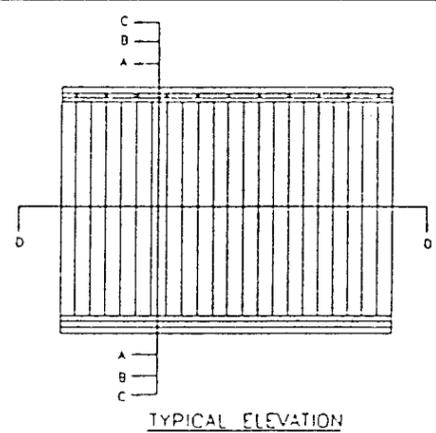
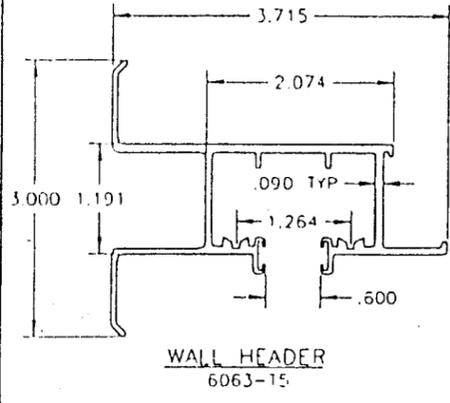
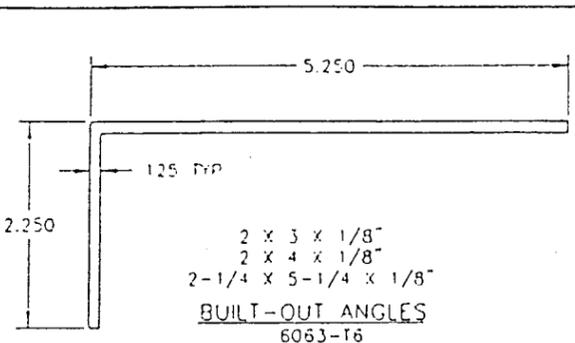
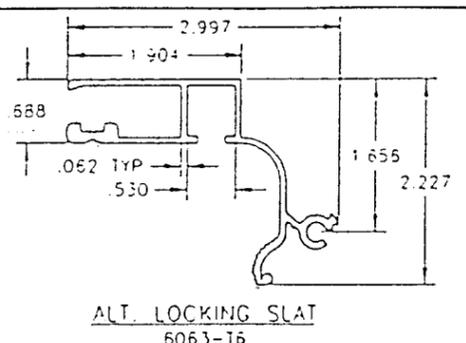
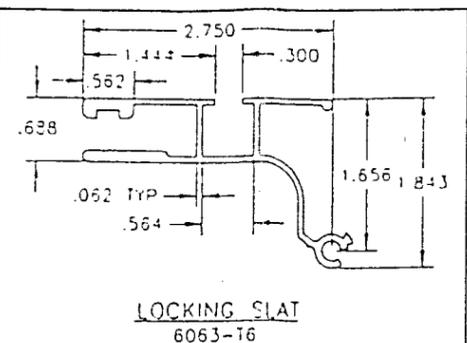
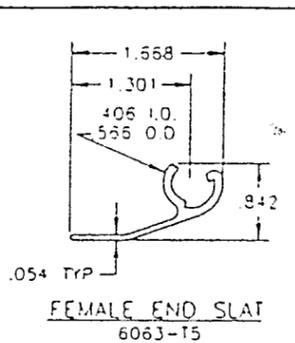
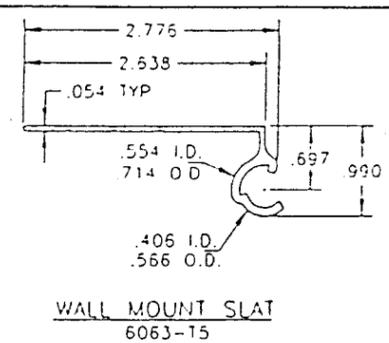
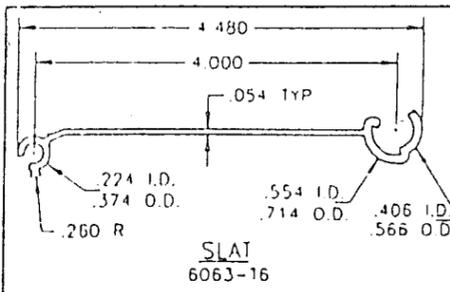
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # **01-1016.05** and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



**NOA No 02-0226.05
Expiration Date: November 16, 2006
Approval Date: March 28, 2002
Page 1**



TYPICAL ANCHORS

ANCHOR (A) = 1/4" TAPCON (BY ITW RAMSET/RED HEAD)
 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 (D) = 1/4" RAWL CALK-IN,
 7/8" MIN. EMBED INTO CONC. OR BLOCK

ANCHOR (E) = #14 S.M.S. INTO WOOD. 1-1/2" MIN. EMBEDMENT
 (S.C. = 0.47)

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

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"	12d=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 = 5" O.C. (FROM TABLE)
 FOR 2" EDGE DIST. SPACING = 5 X .71 = 4.2 O.C.

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

FOR INSTALLATION DETAILS SEE SHEET 2 AND 3.

GENERAL NOTES

- 1 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.
- 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 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, OR PLATED STEEL.
- 7 DESIGN CRITERIA FOR SLATS: MAX DEFLECTION $\leq L/30$ OR 2".

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

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 02-0226.05
 Expiration Date November 16, 2006

By *[Signature]*
 Miami Dade Product Control Division

PRODUCT RENEWED
 ACCEPTANCE No. 01-1016.05
 EXPIRATION DATE November 16, 2006

By *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

PRODUCT MARKING

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

FOLDING SHUTTER CORPORATION, W.PALM BEACH, FL.
 TITAN FOLDING SHUTTER
 "DADE COUNTY PRODUCT CONTROL APPROVED"

DESIGN PRESSURE RATING = + 105 PSF
 - 216 PSF

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE

ENGINEER: HUMAYOON FAROOQ
 PE # 16357

DATE: November 19, 1998

By *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0124.02

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AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT TESTING
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 (305) 254-8100
 FS03516A

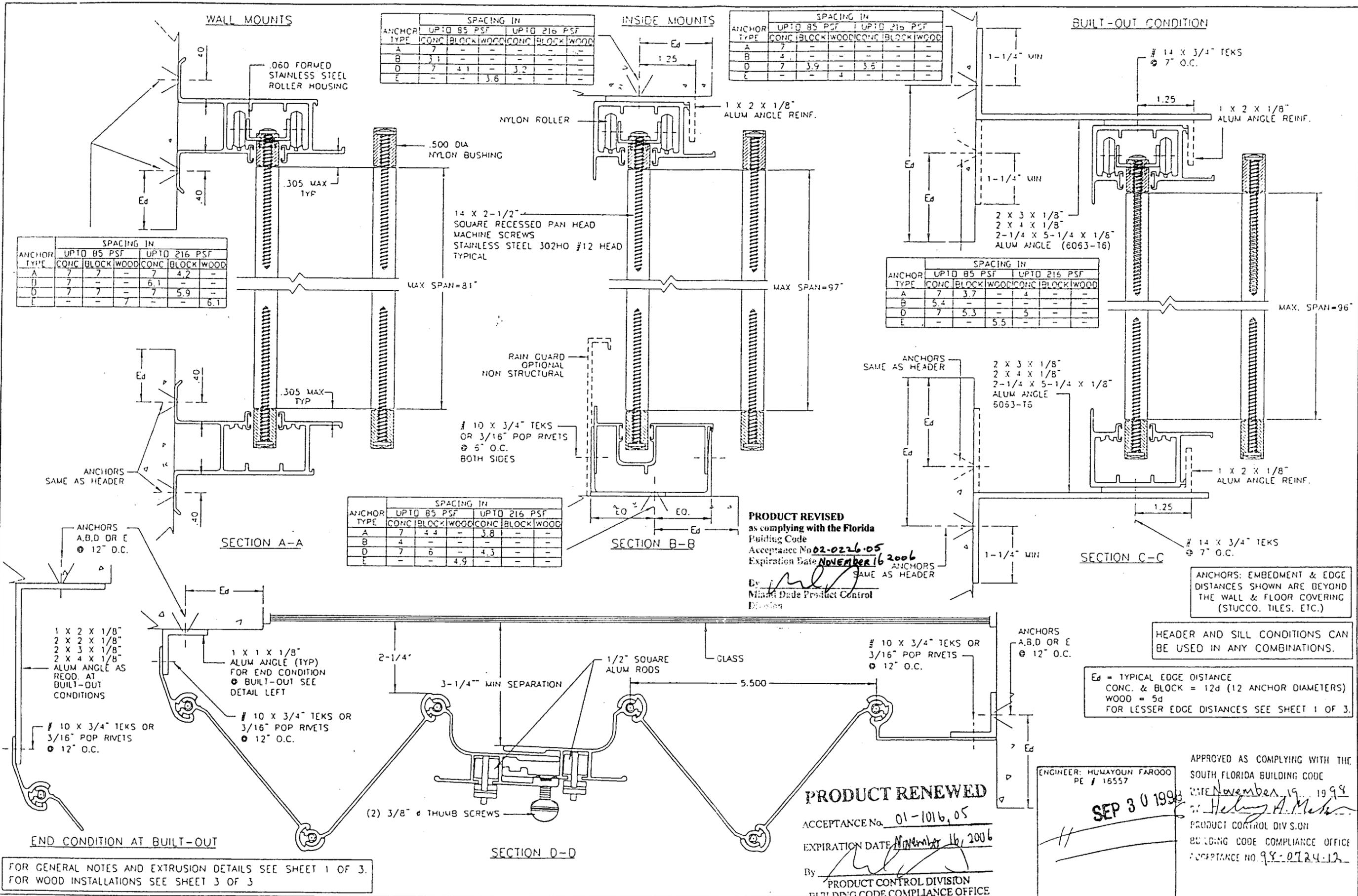
TITAN III FOLDING SHUTTER DETAILS
 FOLDING SHUTTER CORP.
 7099 HEMSTREET PLACE
 WEST PALM BEACH, FL. 33409
 (407) 683-4811

Revisions:

no.	date	by	description
A	14.28.98	TH	EDGE PIN REVISED
B	11.23.98	TH	GENERAL REVISION
C	15.15.98	TH	GENERAL REVISION

date: 03-21-95
 scale: 1/2" = 1"
 design by:
 drawn by: HMMG
 checked by:

drawing no. 95-16
 sheet 1 of 3



ANCHOR TYPE	SPACING IN			
	UP TO 85 PSF		UP TO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	-	-	-
B	3.1	-	-	-
D	7	4.1	3.2	-
E	-	-	3.6	-

ANCHOR TYPE	SPACING IN			
	UP TO 85 PSF		UP TO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	-	-	-
B	4	-	-	-
D	7	3.9	3.8	-
E	-	-	4	-

ANCHOR TYPE	SPACING IN			
	UP TO 85 PSF		UP TO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	7	7	4.2
D	7	-	6.1	-
E	-	7	-	6.1

ANCHOR TYPE	SPACING IN			
	UP TO 85 PSF		UP TO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	3.7	-	-
B	5.4	-	-	-
D	7	5.3	5	-
E	-	-	5.5	-

ANCHOR TYPE	SPACING IN			
	UP TO 85 PSF		UP TO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	4.4	3.8	-
B	4	-	-	-
D	7	6	4.3	-
E	-	-	4.9	-

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 02-0226-05
 Expiration Date November 16, 2006
 By: [Signature]
 Miami Dade Product Control Division

PRODUCT RENEWED
 ACCEPTANCE No. 01-1016-05
 EXPIRATION DATE November 16, 2006
 By: [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

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

ENGINEER: HUMAYOUN FAROOQ
 PE # 16557
 SEP 30 1998

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE November 19, 1998
 By: [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0724-12

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

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AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT TESTING
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 (305) 254-8100
 FSC9516A

TITAN III FOLDING SHUTTER DETAILS

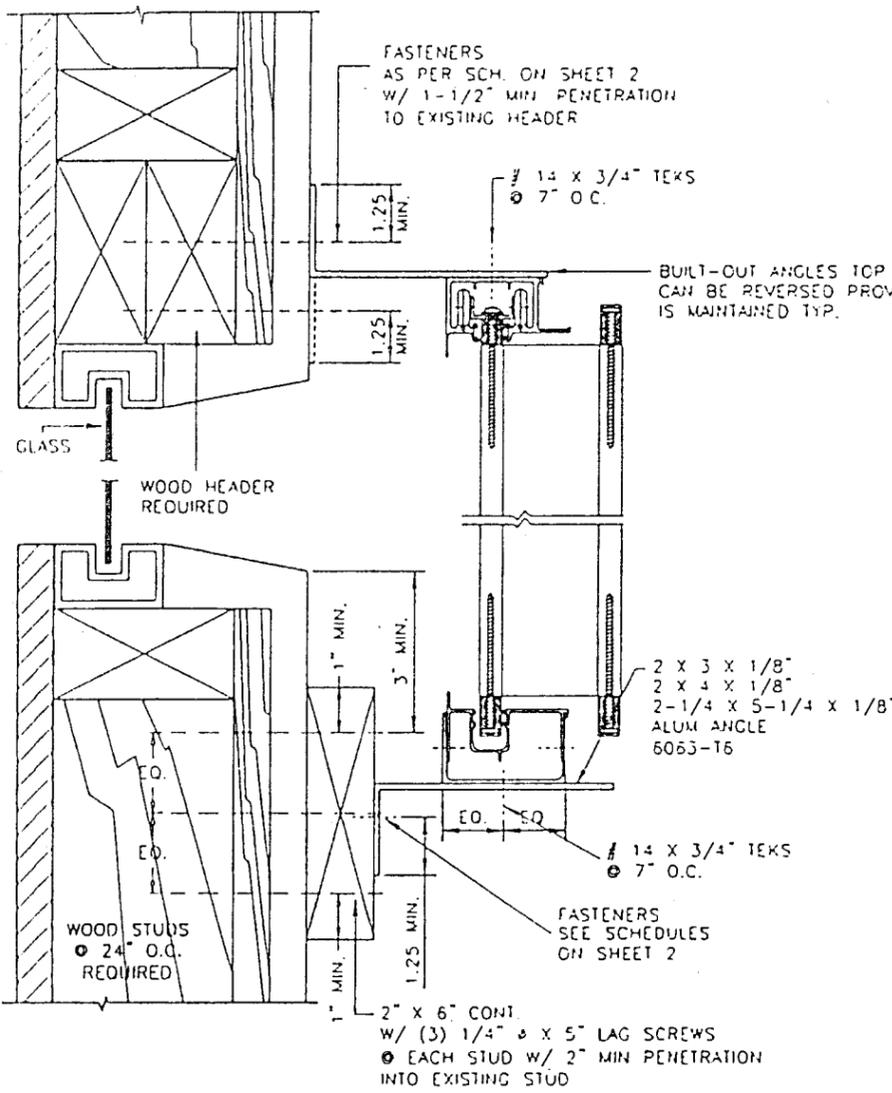
FOLDING SHUTTER CORP.
 7089 HENRY STREET PLACE
 WEST PALM BEACH, FL. 33406
 (407) 683-4811

NO.	DATE	BY	DESCRIPTION
A	12.29.95	TM	BLADE PIN REVISED
B	10.3.95	TM	GENERAL REVISION

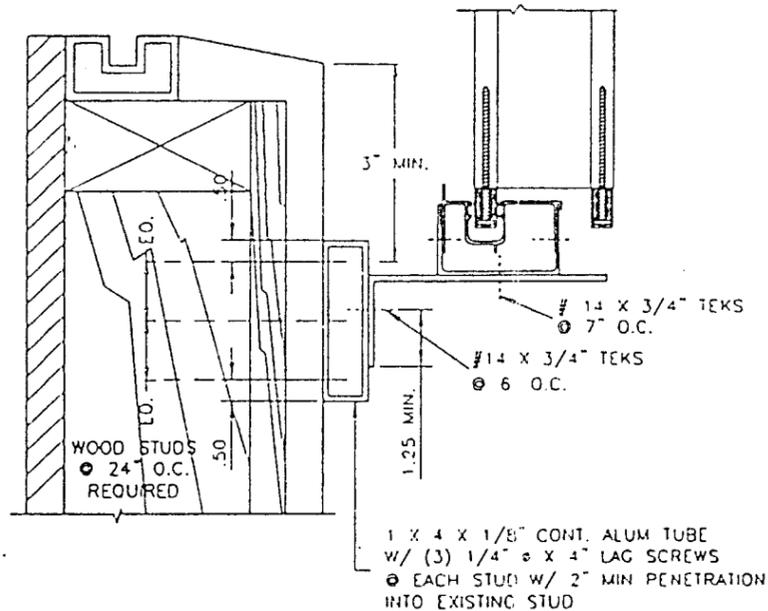
revisions:

DATE: 01-21-98	SCALE: 1/2" = 1'	DESIGN BY: [Signature]	DRAWN BY: [Signature]	CHECKED BY: [Signature]
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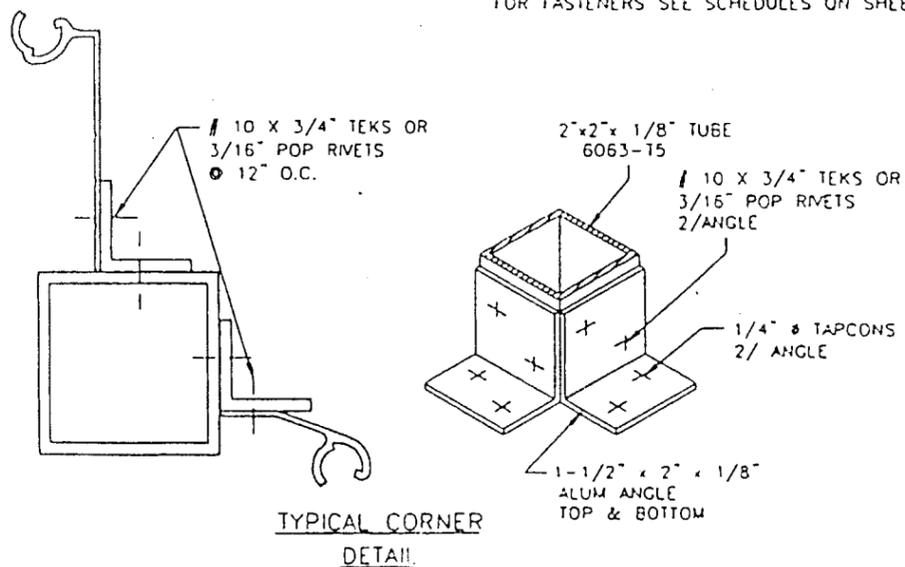
drawing no. **95-16**
 sheet 2 of 3



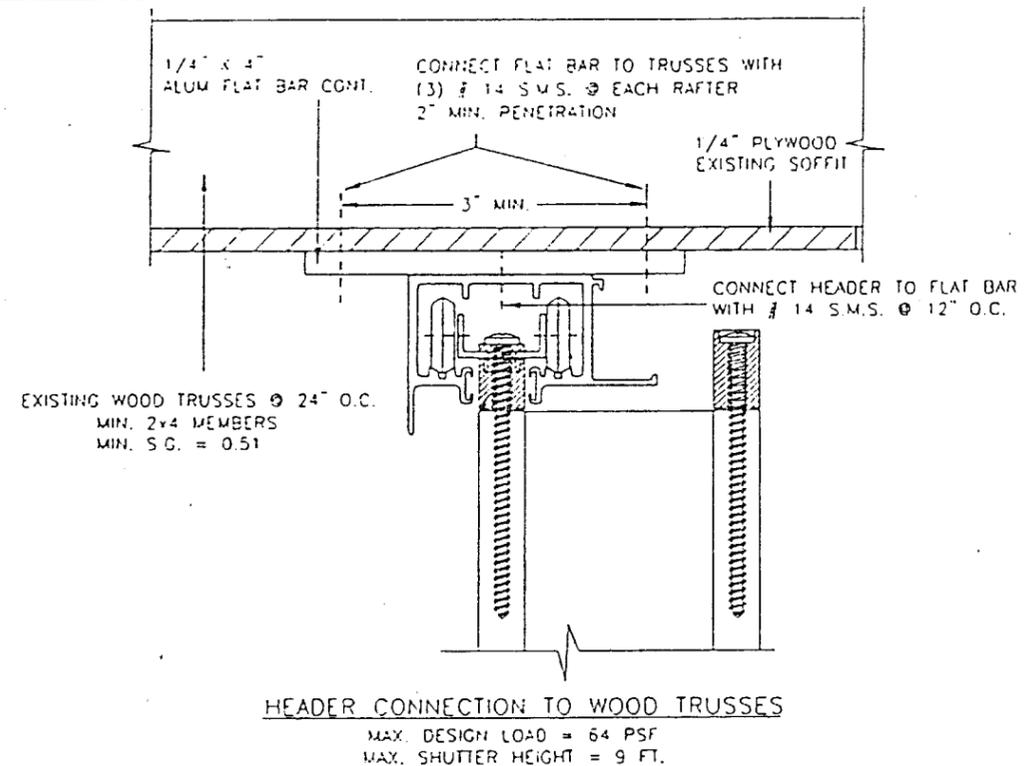
INSTALLATION DETAIL ON EXISTING WOOD BUCKS SCALE: 1/4"=1'
 MAX. DESIGN LOAD = 75 PSF
 MAX. SHUTTER HEIGHT = 6 FT.
 OTHER CONDITIONS SIMILAR
 FOR FASTENERS SEE SCHEDULES ON SHEET 2



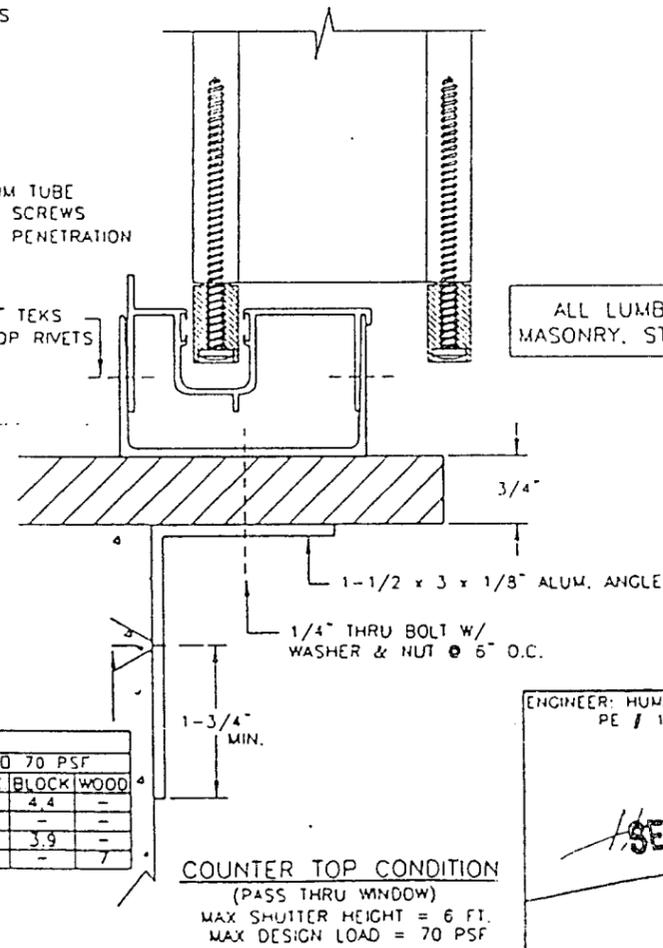
10 X 3/4" TEKS OR 3/16" POP RIVETS BOTH SIDES



TYPICAL CORNER DETAIL



HEADER CONNECTION TO WOOD TRUSSES
 MAX. DESIGN LOAD = 64 PSF
 MAX. SHUTTER HEIGHT = 9 FT.



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

ANCHOR TYPE	SPACING IN			
	UPTO 40 PSF		UPTO 70 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	7	7	4.4
B	7	-	4	-
D	7	6.8	7	3.9
E	-	-	7	7

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 02-0226.05
 Expiration Date November 16 2006

By *[Signature]*
 Miami Dade Product Control Division

ALL LUMBER EXPOSED AND/OR IN CONTACT WITH MASONRY, STUCCO ETC. SHALL BE PRESSURE TREATED.

PRODUCT RENEWED

ACCEPTANCE No. 01-1016.05
 EXPIRATION DATE November 16, 2006

By *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE November 19, 1998
 BY *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0724-12

ENGINEER: HUWAYOUN FAROOQ
 PE 16557

SEP 30 1998

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AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT TESTING
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 (305) 254-8100
 FSC9516A

TITAN III FOLDING SHUTTER DETAILS
 FOLDING SHUTTER CORP.
 7089 HEMSTREET PLACE
 WEST PALM BEACH, FL. 33406
 (407) 683-4611

NO.	DATE	BY	DESCRIPTION
A	11-23-95	J.H.	BASE PIN REVISION
B	10-3-95	J.H.	GENERAL REVISION

DATE	SCALE	DESIGN BY	BY	CHECKED BY
03-21-95	1/2" = 1'			

drawing no. **95-16**
 sheet 3 of 3