



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 Folding 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.: 01-1016.05
EXPIRES: 11/16/2006

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: 12/27/2001

APPROVED: December 27, 2001

EXPIRES: November 16, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

- 1. SCOPE**
 - 1.1 This **renews** Notice of Acceptance (NOA) No. **98-0724.12**, which was issued on November 19, 1998. It renews the approval of an aluminum accordion type shutter, as described in Section 2 of this NOA, designed to comply with the South Florida Building Code (SFBC), 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.

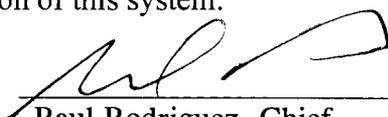
- 2. PRODUCT DESCRIPTION**
 - 2.1 The **Series "Titan III Folding Shutter" Aluminum Accordion Shutter** and its components shall be constructed in strict compliance with the following document: Drawing No **95-16**, Sheets 1 through 3 of 3, titled "Titan III Folding Shutter Details," prepared by Al-Farooq Corporation, dated 3/24/95 and revised on 11/16/98, signed and sealed by Dr. Humayoun Farooq, P.E, bearing the Miami-Dade County Product Control renewal stamp with the NOA number and expiration date by the Miami-Dade County Product Control Division. This document shall hereinafter be referred to as the approved drawings.

- 3. LIMITATIONS**
 - 3.1 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**
 - 4.1 The aluminum accordion type shutter and its components shall be installed in strict compliance with the approved drawings.

- 5. LABELING**
 - 5.1 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".

- 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.



Raul Rodriguez, Chief
Product Control Division

APPROVED: December 27, 2001

EXPIRES: November 16, 2006

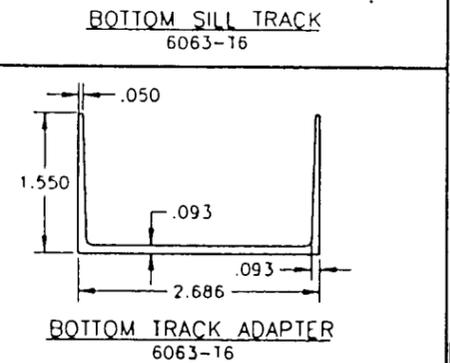
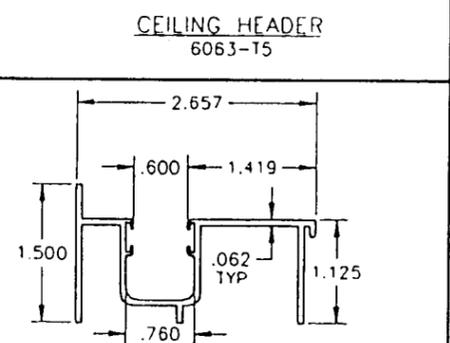
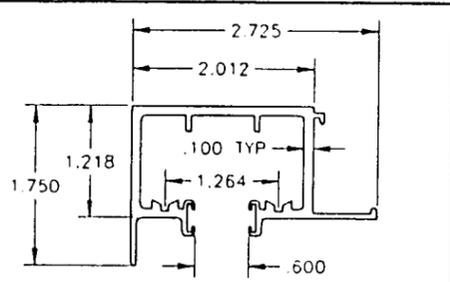
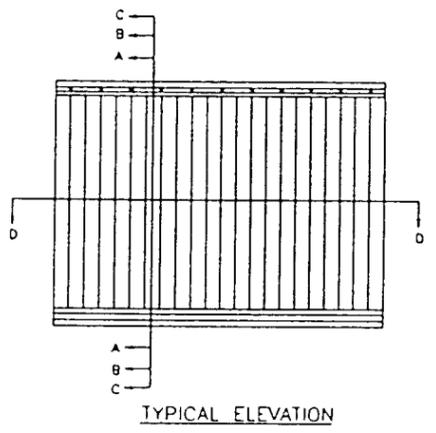
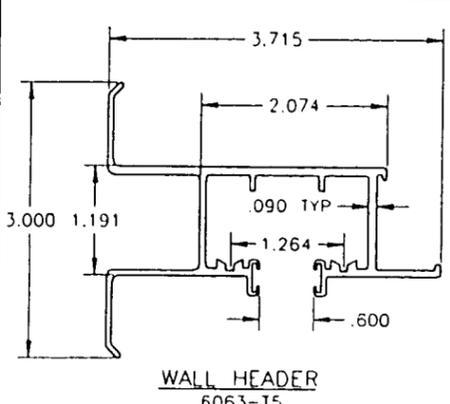
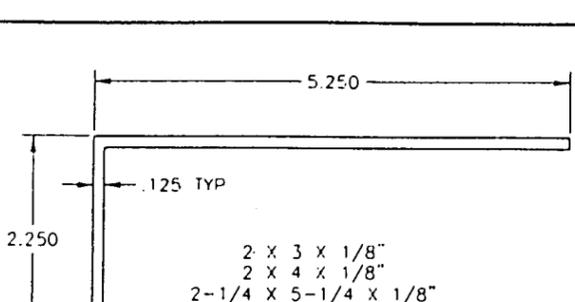
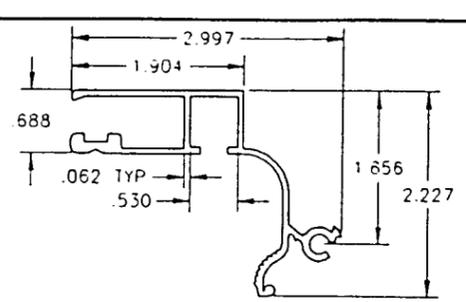
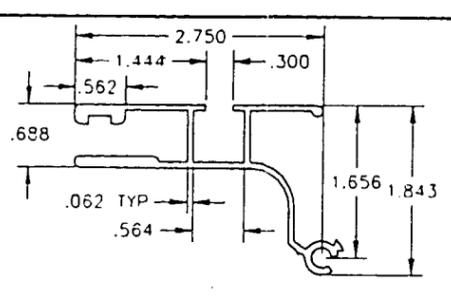
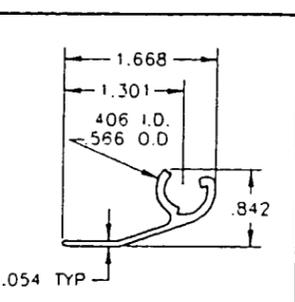
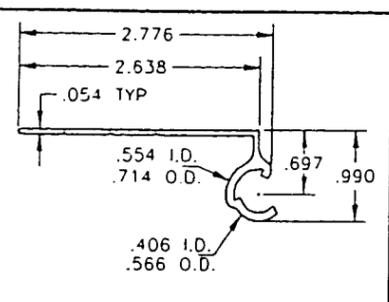
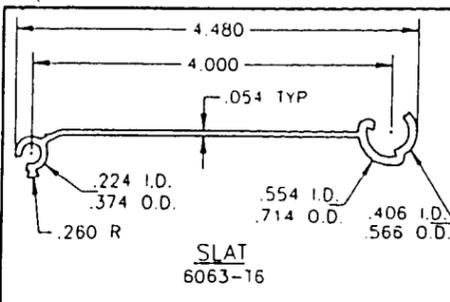
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, 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 purpose.
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 need 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



Raul Rodriguez, Chief
Product Control Division



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 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

PRODUCT RENEWED

ACCEPTANCE No. 01-1016-05
 EXPIRATION DATE November 10, 2006
 By [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

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 = 6" O.C. (FROM TABLE) FOR 2" EDGE DIST. SPACING = 6 X .71 = 4.2 O.C.					
TYPICAL EDGE DISTANCE IN WOOD = 1-1/4" NO REDUCTION FACTOR IS REQUIRED					

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.G. = 0.47)

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

FOR INSTALLATION DETAILS SEE SHEET 2 AND 3.

a f c

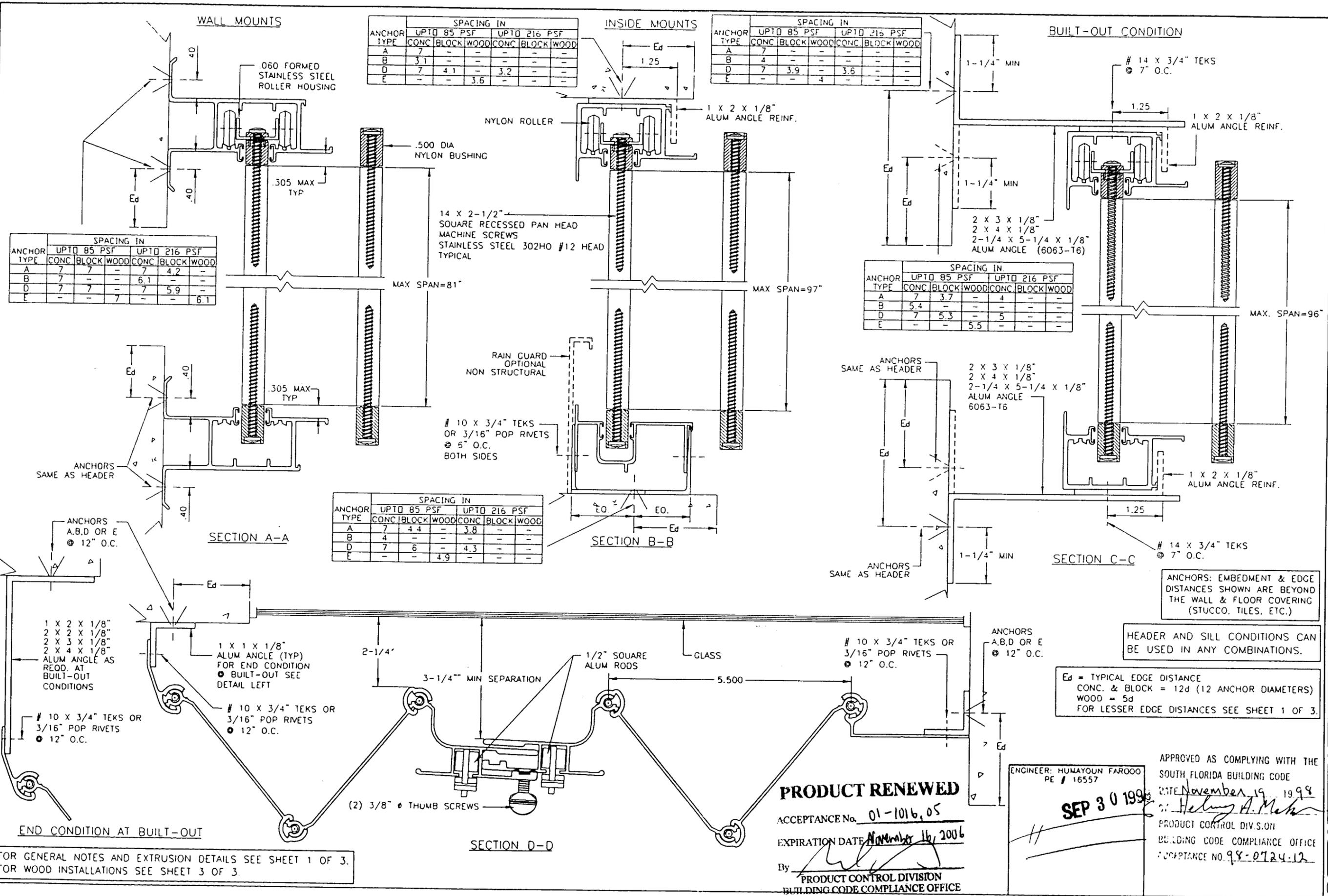
AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT TESTING
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 (305) 264-8100
 FSC9516A

TITAN III FOLDING SHUTTER DETAILS
 FOLDING SHUTTER CORP.
 7089 HEMSTREET PLACE
 WEST PALM BEACH, FL. 33406
 (407) 683-4811

NO.	DATE	DESCRIPTION
A	4.28.95	T.H. BLADE PIN REVISED
B	10.25.95	T.H. GENERAL REVISION
C	9.16.98	T.H. GENERAL REVISION

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE November 19, 1998
 BY [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0724-02

date: 03-24-95
 scale: 1/2" = 1"
 design by: [Signature]
 drawn by: HAMID
 checked by: [Signature]
 drawing no. 95-16
 sheet 1 of 3



SPACING IN

ANCHOR TYPE	UPTO 85 PSF		UPTO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	-	-	-
B	3.1	-	-	-
D	7	4.1	3.2	-
E	-	-	3.6	-

SPACING IN

ANCHOR TYPE	UPTO 85 PSF		UPTO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	-	-	-
B	4	-	-	-
D	7	3.9	3.6	-
E	-	-	4	-

SPACING IN

ANCHOR TYPE	UPTO 85 PSF		UPTO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	7	7	4.2
B	7	-	6.1	-
D	7	7	7	5.9
E	-	-	7	6.1

SPACING IN

ANCHOR TYPE	UPTO 85 PSF		UPTO 216 PSF	
	CONC	BLOCK WOOD	CONC	BLOCK WOOD
A	7	3.7	4	-
B	5.4	-	-	-
D	7	5.3	5	-
E	-	-	5.5	-

SPACING IN

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

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REVISIONS:

NO.	DATE	DESCRIPTION
A	4.28.95	T.H. BLADE PIN REVISED
B	10.5.95	T.H. GENERAL REVISION

date: 03-24-95
scale: 1/7" = 1"
design by: HMMIO
drawn by: HMMIO
checked by:

drawing no. 95-16
sheet 2 of 3

PRODUCT RENEWED

ACCEPTANCE No. 01-1016.05
EXPIRATION DATE November 16, 2006
By: [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

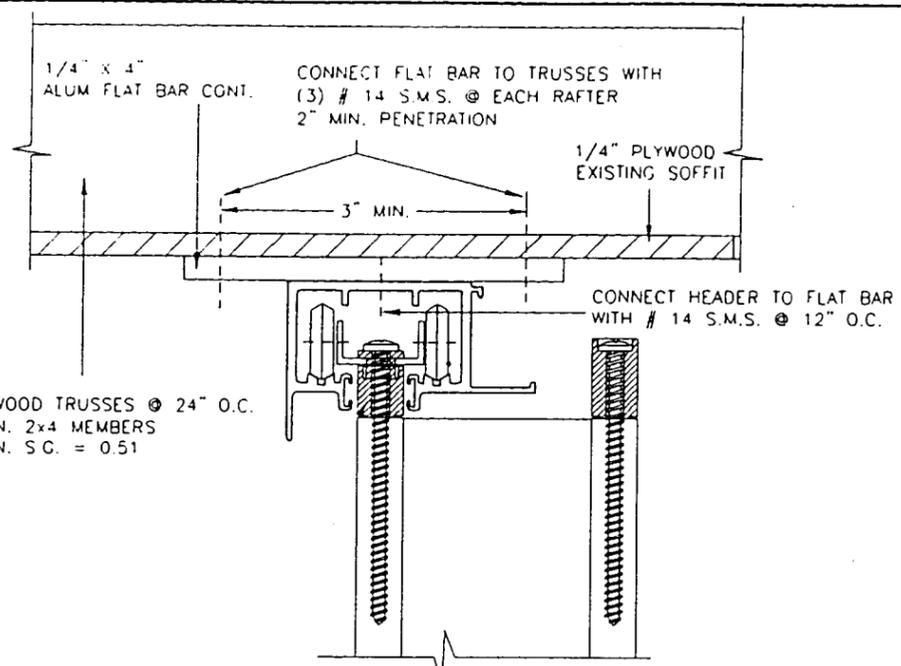
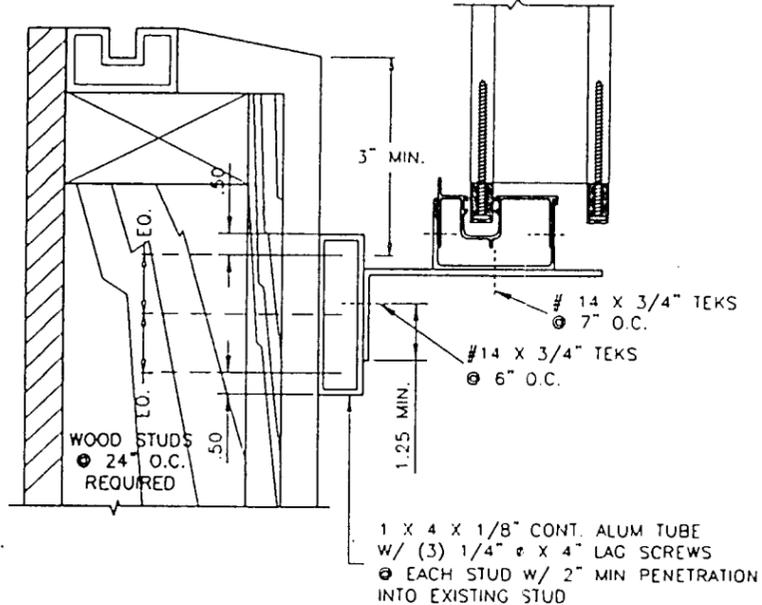
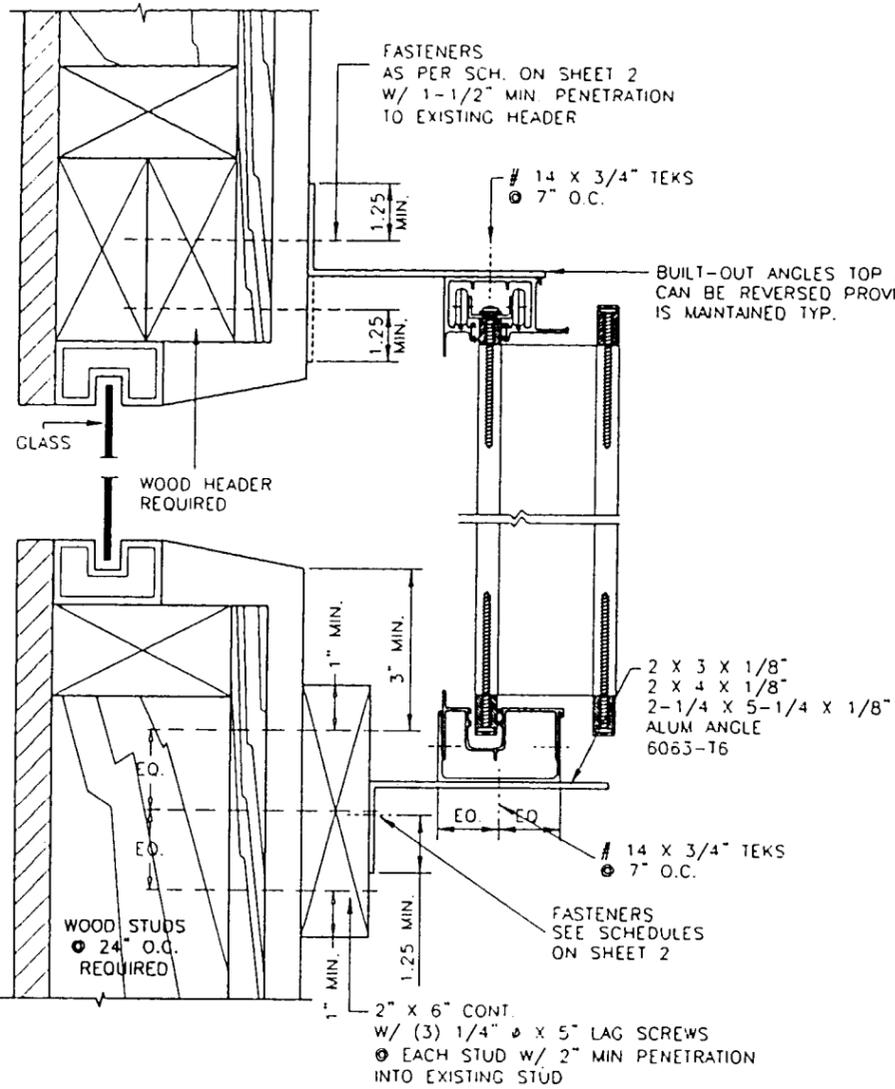
ENGINEER: HUMAYOON FAROOQ
PE # 16557

SEP 30 1998

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE November 19, 1998
By: [Signature]
PRODUCT CONTROL DIV.S.ON
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.

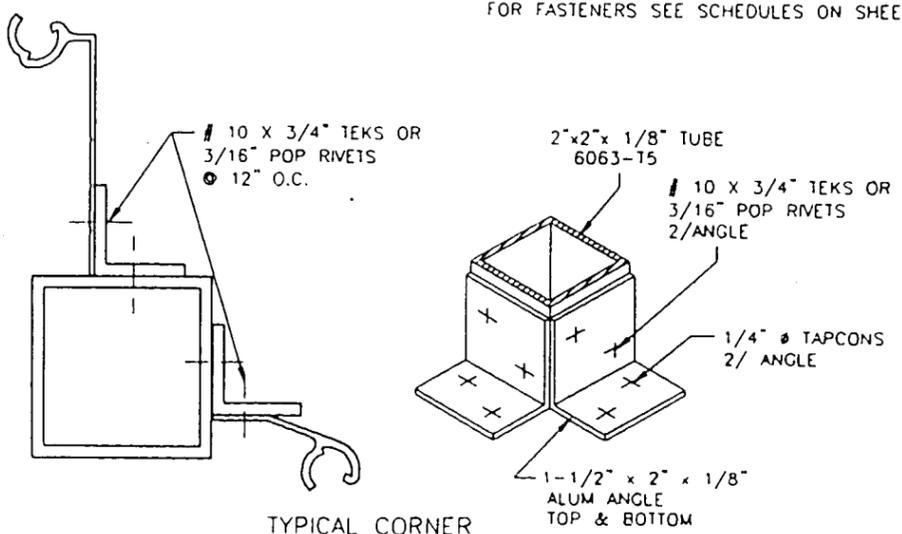
ANCHORS: EMBEDMENT & EDGE DISTANCES SHOWN ARE BEYOND THE WALL & FLOOR COVERING (STUCCO, TILES, ETC.)
HEADER AND SILL CONDITIONS CAN BE USED IN ANY COMBINATIONS.
Ed = TYPICAL EDGE DISTANCE
CONC. & BLOCK = 12d (12 ANCHOR DIAMETERS)
WOOD = 5d
FOR LESSER EDGE DISTANCES SEE SHEET 1 OF 3.



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

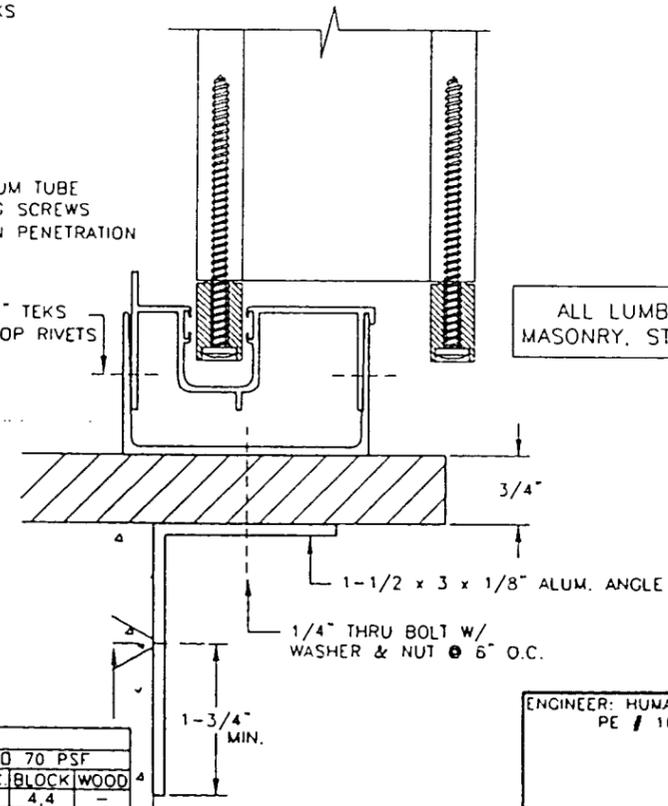
INSTALLATION DETAIL ON EXISTING WOOD BUCKS SCALE: 1/4"=1'

MAX. DESIGN LOAD = 75 PSF
 MAX. SHUTTER HEIGHT = 6 FT.
 OTHER CONDITIONS SIMILAR
 FOR FASTENERS SEE SCHEDULES ON SHEET 2



TYPICAL CORNER DETAIL

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



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

ENGINEER: HUMAYOON FAROOQ
 PE 16557

SEP 30 1998

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

a f c

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 WEST PALM BEACH, FL. 33406
 (407) 683-4811

NO	DATE	DESCRIPTION
A	4.28.95	T.H. BLADE PIN REVERSE
B	10.5.95	T.H. GENERAL REVISION

drawing no. 95-16
 sheet 3 of 3