



**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)

**Sansone Hurricane Shutters, Inc.
505 N.E. 27th Street
Pompano Beach, Florida 33064**

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. 96-05, titled "Accordion Shutter Details", sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, dated January 13, 1996, last revision #C dated January 30, 1997, 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.

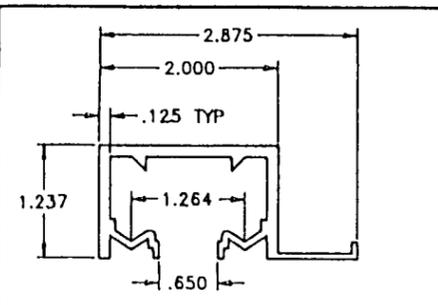
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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.

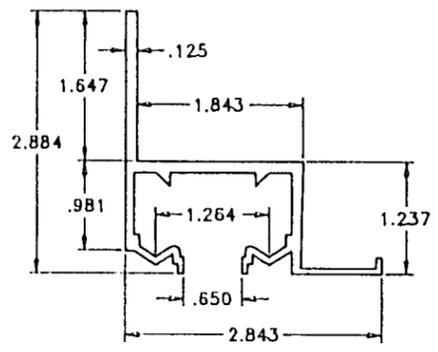
This NOA revises NOA #00-0208.01 and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



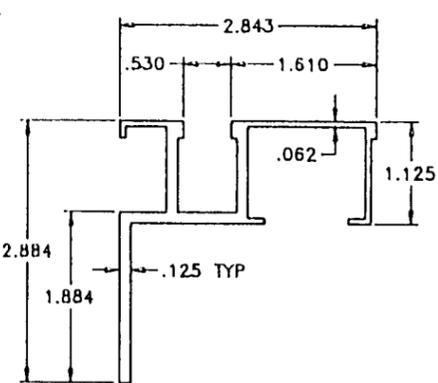
**NOA No 02-0502.15
Expiration Date: 03/06/2003
Approval Date: 05/10/2002
Page 1**



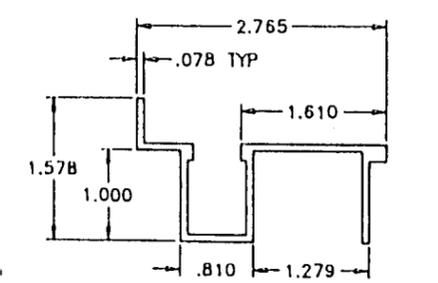
CEILING MOUNT HEADER
6063-T6



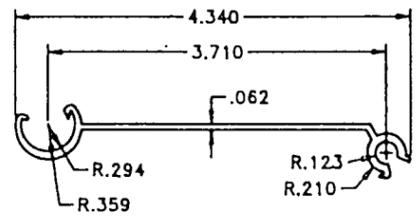
WALL MOUNT HEADER
6063-T6



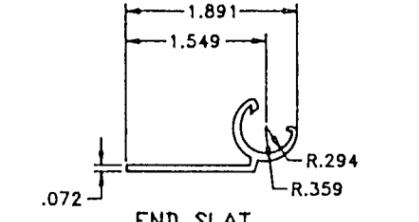
WALL MOUNT SILL
6063-T6



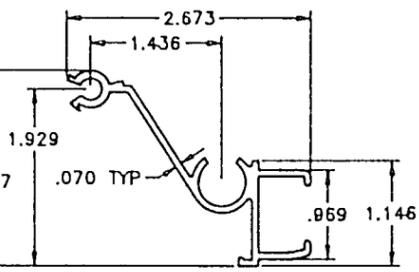
FLOOR SILL
6063-T6



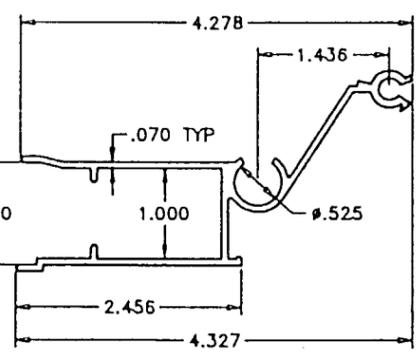
BLADE
6063-T6



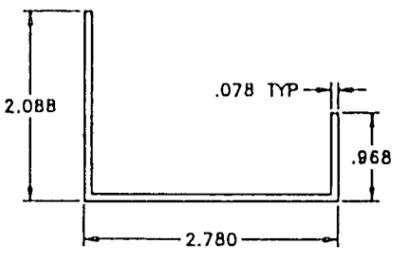
END SLAT
6063-T6



MALE CENTERLOCK
6063-T6



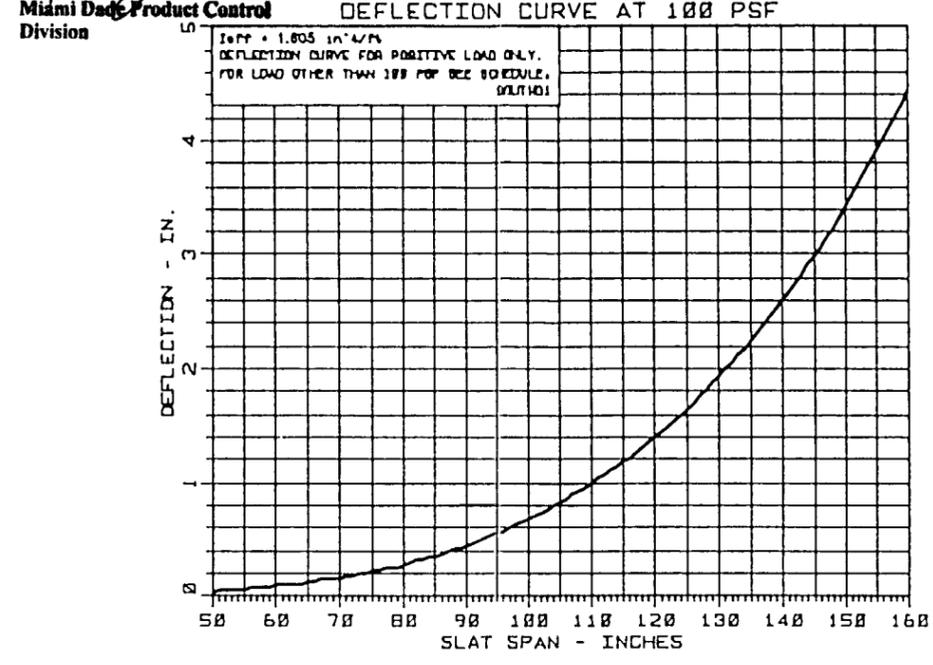
FEMALE CENTERLOCK
6063-T6



BOTTOM SILL ADAPTER
6063-T6

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-0502-15
Expiration Date 03/06/2003

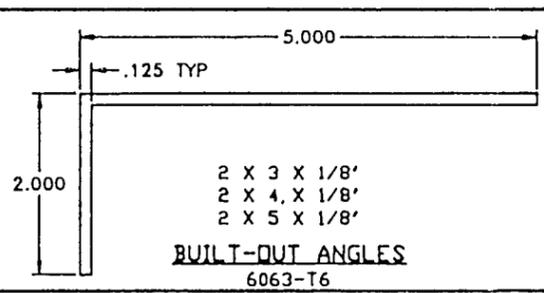
By Helmy A. Matar
Miami Dade Product Control Division



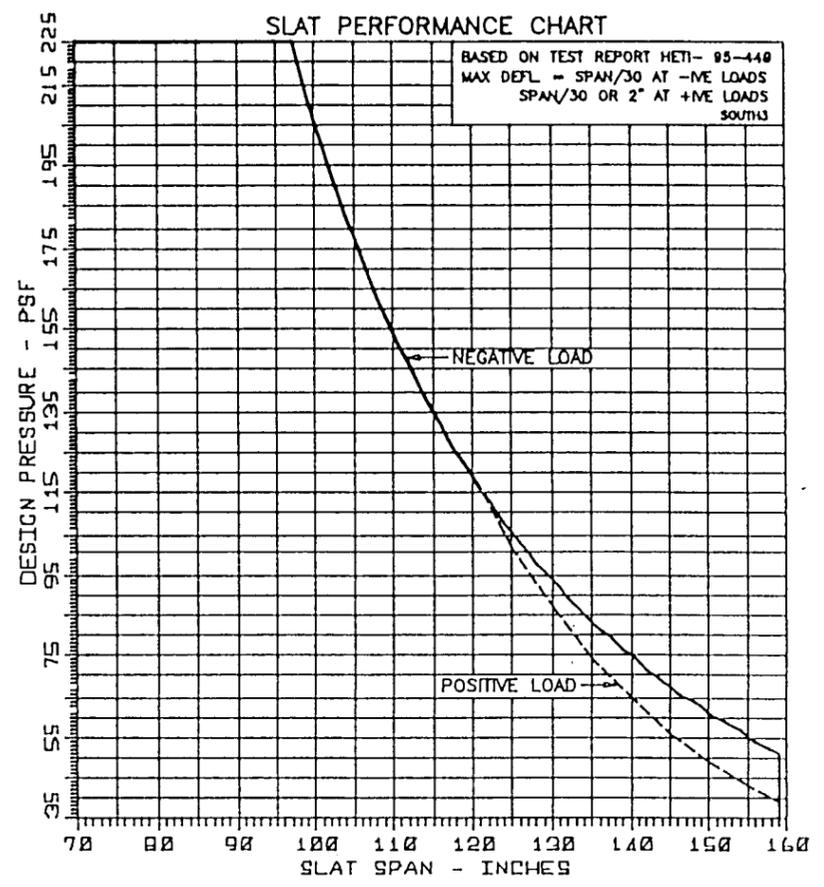
GENERAL NOTES

- THIS STRUCTURE IS DESIGNED AS PER THE FLORIDA BUILDING CODE.
- DESIGN CRITERIA FOR ALUMINUM, MINIMUM MECHANICAL PROPERTIES, AND SAFETY FACTORS ARE IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL" LATEST EDITION.
- ALL EXTRUSIONS SHALL BE ALLOYS AS SHOWN ON DETAILS.
- 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.
- DESIGN CRITERIA FOR PANELS: MAX DEFLECTION $\leq L/30$ FOR NEGATIVE LOAD AND THE LESSER OF $L/30$ OR $2"$ FOR POSITIVE LOAD.
- ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- EACH UNIT SHALL HAVE A READILY VISIBLE DECAL OF PAINTED INSTRUCTION TO OWNER OR TENANT INDICATING THE MANDATORY USE OF $1/4"$ DIA. THRU PIN AT CENTERMATES DURING PERIODS OF HURRICANE WARNING.

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



BUILT-OUT ANGLES
6063-T6



USE SLAT PERFORMANCE CHART TO VERIFY SLAT 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		
FACTOR = K = Pd/100 =	IN.		
READING FROM SPAN D. CURVE = D =	IN.	97"	2-5/8"
DEFLECTION AT Pd = K*D =	IN.		
MIN. SEPARATION REQD. = K*D+1" =	IN.	150"	3-1/2"

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.

PRODUCT MARKING

A LABEL SHALL BE AFFIXED ON LOCKING MEMBER ON UNIT ABOVE THE LOCK WITH THE FOLLOWING STATEMENT.
SANSONE HURRICANE SHUTTERS INC. POMPANO BEACH, FL
"DADE COUNTY PRODUCT CONTROL APPROVED"

PRODUCT RENEWED

ACCEPTANCE No. 00-0208.01
EXPIRATION DATE: March 06, 2003
By Helmy A. Matar
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

ENGINEER: HUMAYOUN FAROOQ
PE # 16557

JAN 31 1997

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE MARCH 06, 1997
BY Helmy A. Matar
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 96-0521.01

FOR INSTALLATION DETAILS SEE SHEET 2 THRU 4.

a f c

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT TESTING
1235 SW 87 AVE
MIAMI, FLORIDA 33174
(305) 264-8100
SH19605A

ACCORDION SHUTTER DETAILS
SANSONE HURRICANE SHUTTERS INC.
505 N.E. 27 TH ST.
POMPANO BEACH, FL. 33064
(305) 979 - 5256

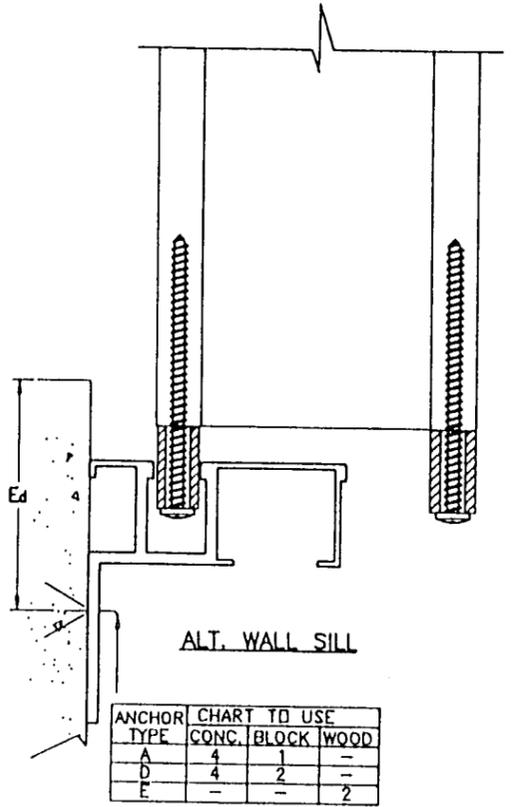
NO.	DATE	BY	DESCRIPTION
A	11.15.96	H	GENERAL REVISION
B	01.12.97	H	ANCHOR GRAPH REV.
C	01.30.97	H	ANCHOR CHARTS REV.

DATE: 01-13-98
SCALE: 1/2" = 1"
DESIGN BY:
DRAWN BY: HAF
CHECKED BY:

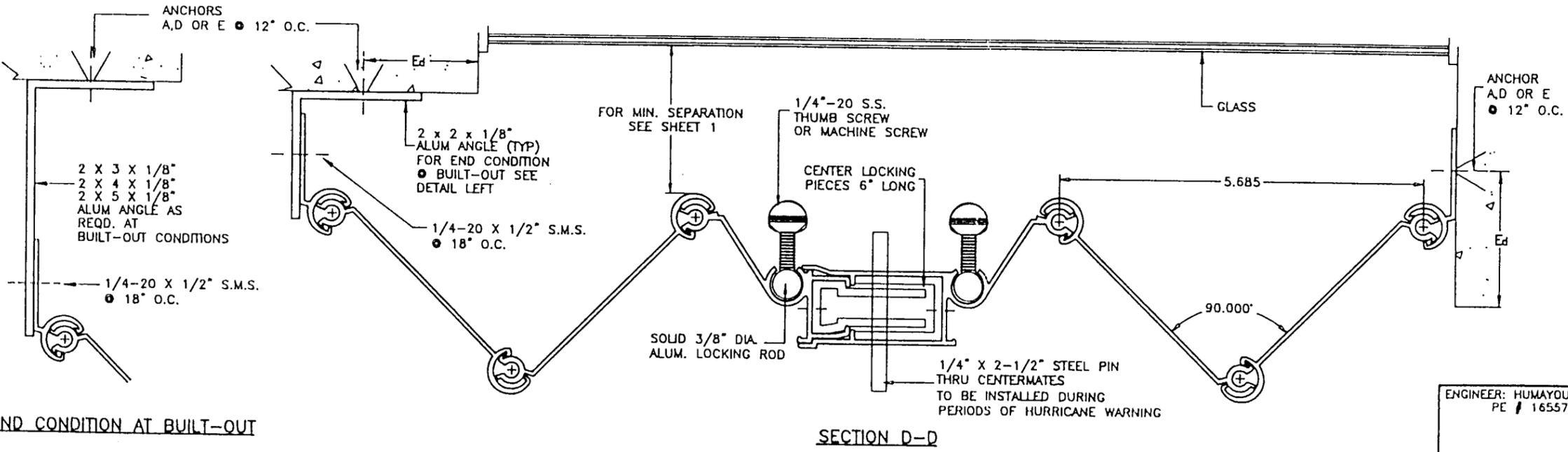
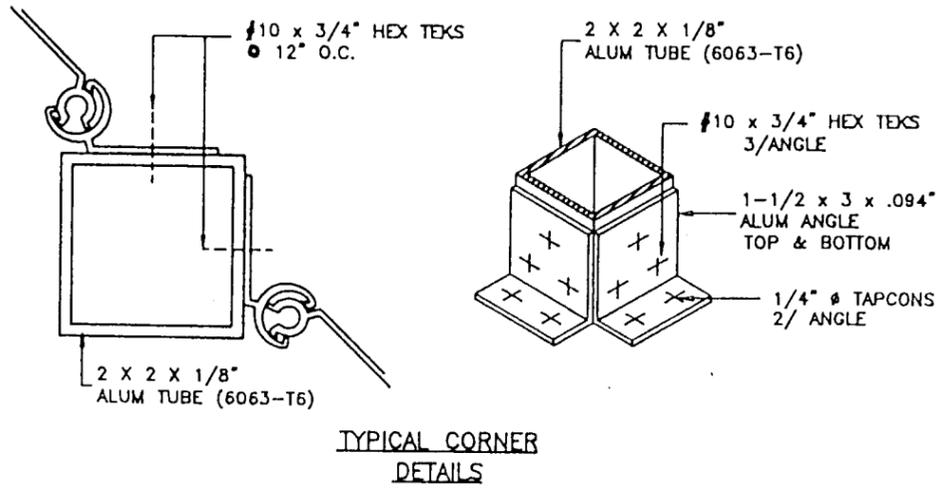
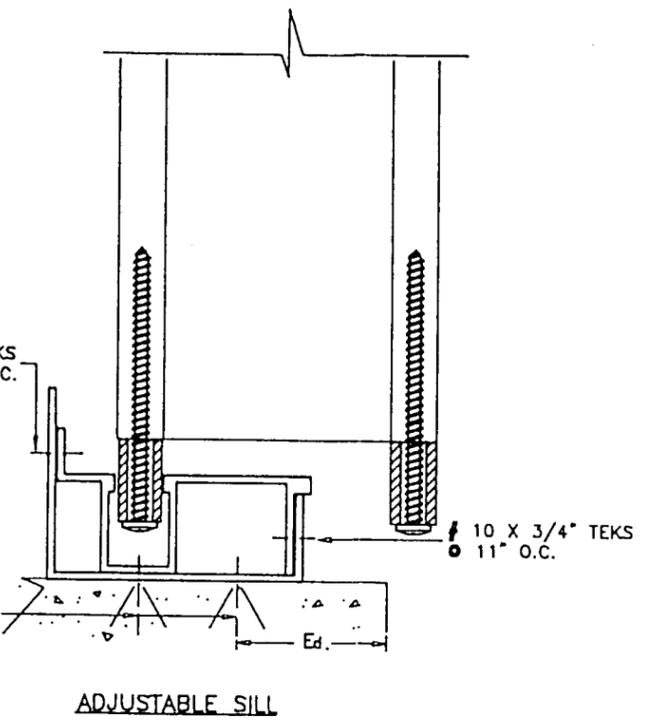
drawing no. **96-05**
sheet 1 of 5

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



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



PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-0502-15
Expiration Date 03/09/2003
By Helmy A. Matar
Miami Dade Product Control Division

PRODUCT RENEWED
ACCEPTANCE No. 00-0208.01
EXPIRATION DATE 06/06/2003
By Helmy A. Matar
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

ENGINEER: HUMAYOUN FAROOQ
PE # 16557

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE MARCH 06 1997
BY Helmy A. Matar
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 96-0521.01

JAN 31 1997

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

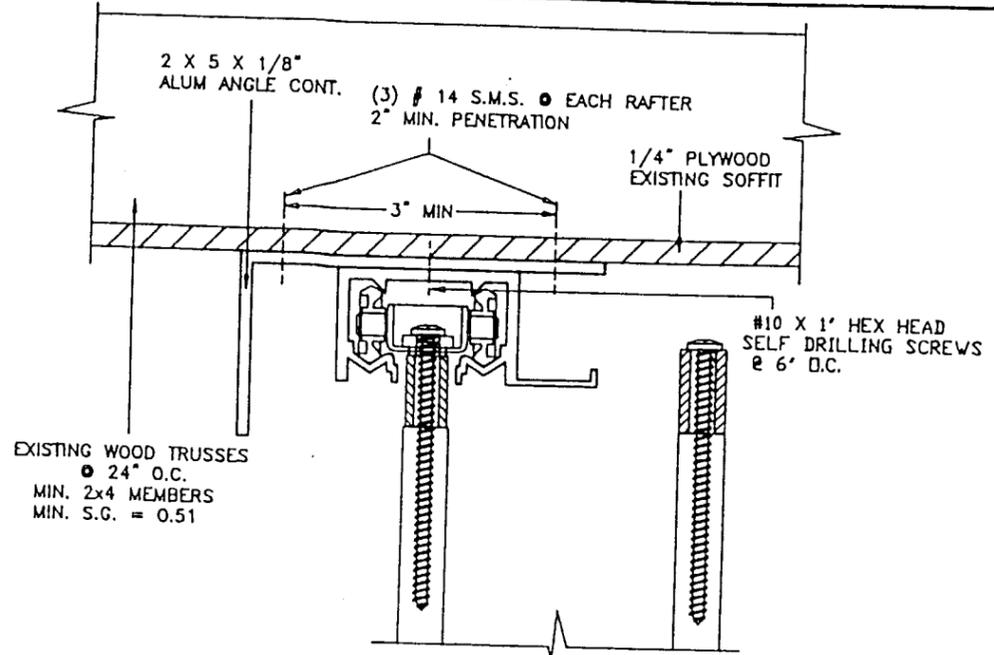
ANCHORS: EMBEDMENT & EDGE DISTANCES SHOWN ARE BEYOND THE WALL & FLOOR COVERING (STUCCO, TILES, ETC.)

AL-FAROOQ CORPORATION
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505 N.E. 27 TH ST.
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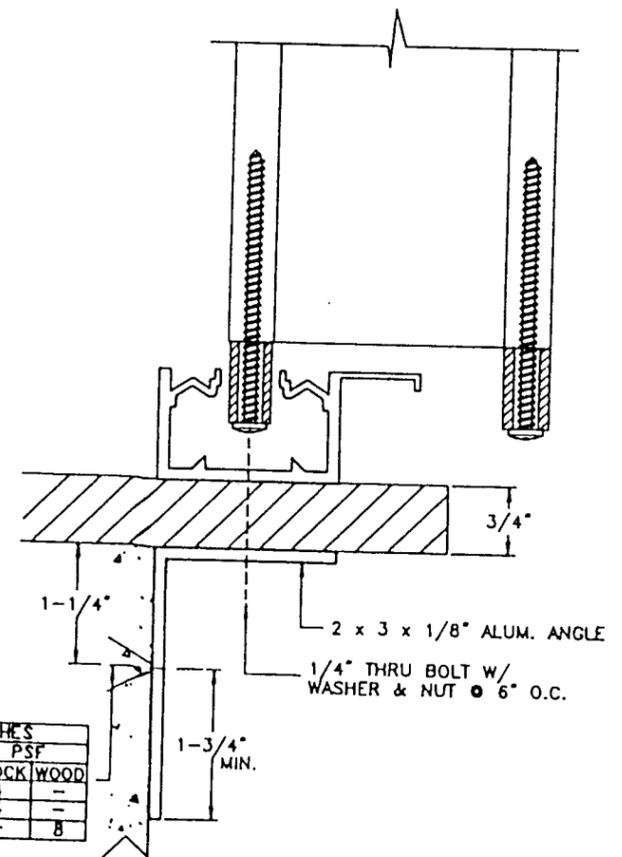
revisions:	no.	date	description

drawing no. 96-05
sheet 3 of 5



EXISTING WOOD TRUSSES
 ○ 24" O.C.
 MIN. 2x4 MEMBERS
 MIN. S.G. = 0.51

HEADER CONNECTION TO WOOD TRUSSES
 MAX SHUTTER HEIGHT = 108"
 MAX DESIGN LOAD = 72 PSF



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

ANCHOR TYPE	ANCHOR SPACING INCHES					
	UP TO 40 PSF		UP TO 70 PSF			
	CONC	BLOCK	WOOD	CONC	BLOCK	WOOD
A	23	8	-	13	4	-
D	16	9	-	8	4	-
E	-	-	14	-	-	8

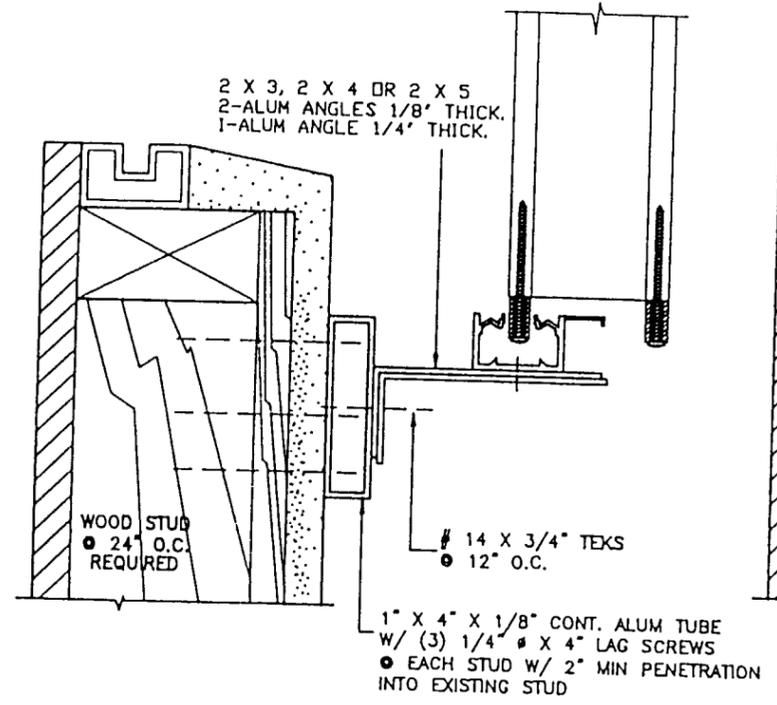
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 as complying with the Florida Building Code
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 By *Helmy A. Makar*
 Miami Dade Product Control Division

PRODUCT RENEWED
 ACCEPTANCE No. 00-0208.01
 EXPIRATION DATE March 06, 2003
 By *Helmy A. Makar*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

ENGINEER: HUWAYOUN FAROOQ
 PE # 16557

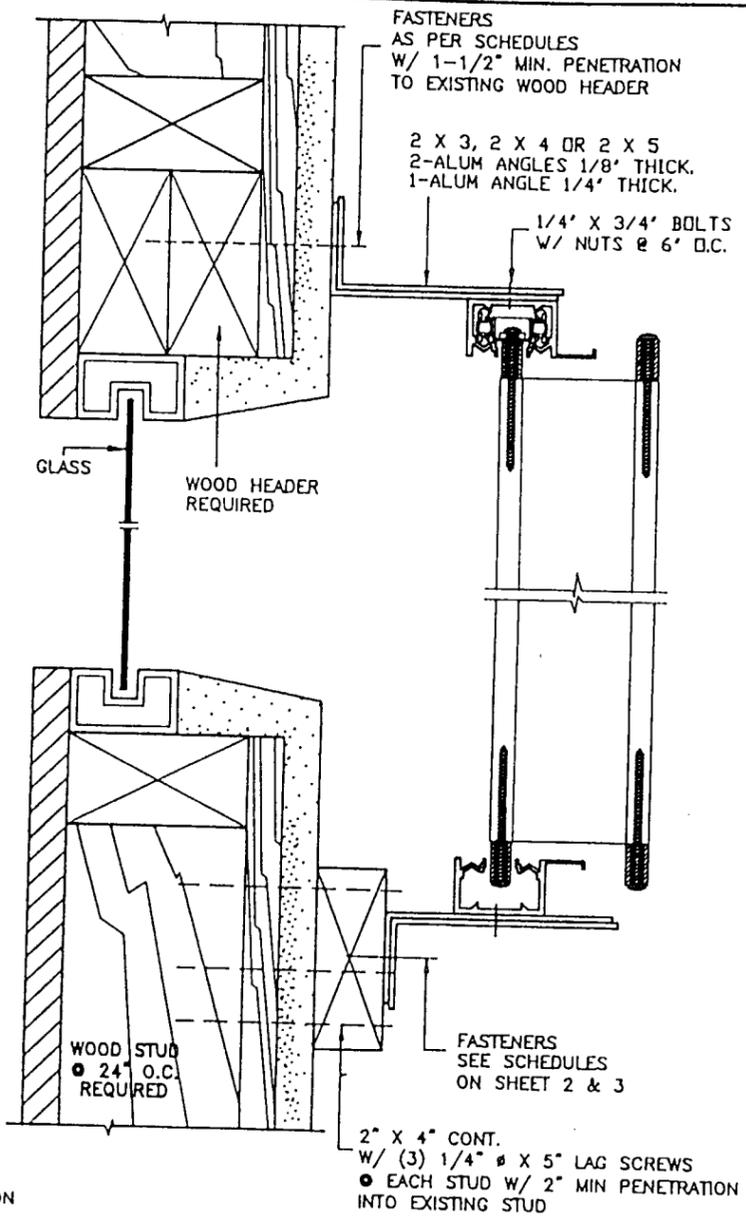
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE MARCH 06, 1997
 BY *Helmy A. Makar*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 96-0521.01

JAN 31 1997



INSTALLATION DETAIL ON EXISTING WOOD BUCKS SCALE: 1/4" = 1"
 MAX. SHUTTER HEIGHT = 8"
 MAX. DESIGN LOAD = 53 PSF

FOR HEADER/SILL DETAILS CONNECTED TO CONT. WOOD MEMBERS SEE SHEETS 2 & 3.



FASTENERS AS PER SCHEDULES W/ 1-1/2" MIN. PENETRATION TO EXISTING WOOD HEADER

2 X 3, 2 X 4 OR 2 X 5
 2-ALUM ANGLES 1/8" THICK.
 1-ALUM ANGLE 1/4" THICK.

1/4" X 3/4" BOLTS W/ NUTS @ 6" O.C.

GLASS
 WOOD HEADER REQUIRED

WOOD STUD
 ○ 24" O.C. REQUIRED

14 X 3/4" TEKX
 ○ 12" O.C.

WOOD STUD
 ○ 24" O.C. REQUIRED

FASTENERS SEE SCHEDULES ON SHEET 2 & 3

2" X 4" CONT.
 W/ (3) 1/4" X 5" LAG SCREWS
 ○ EACH STUD W/ 2" MIN PENETRATION INTO EXISTING STUD

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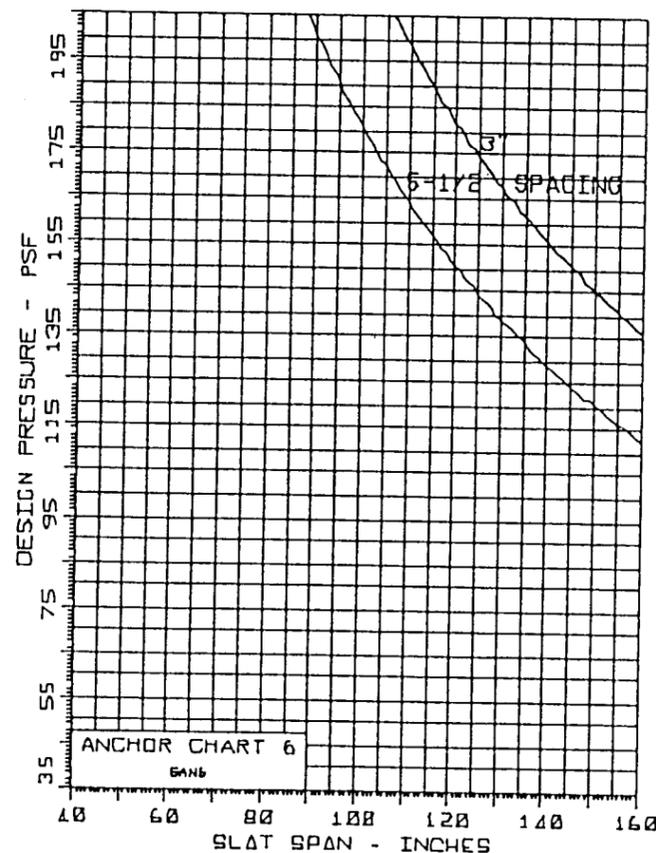
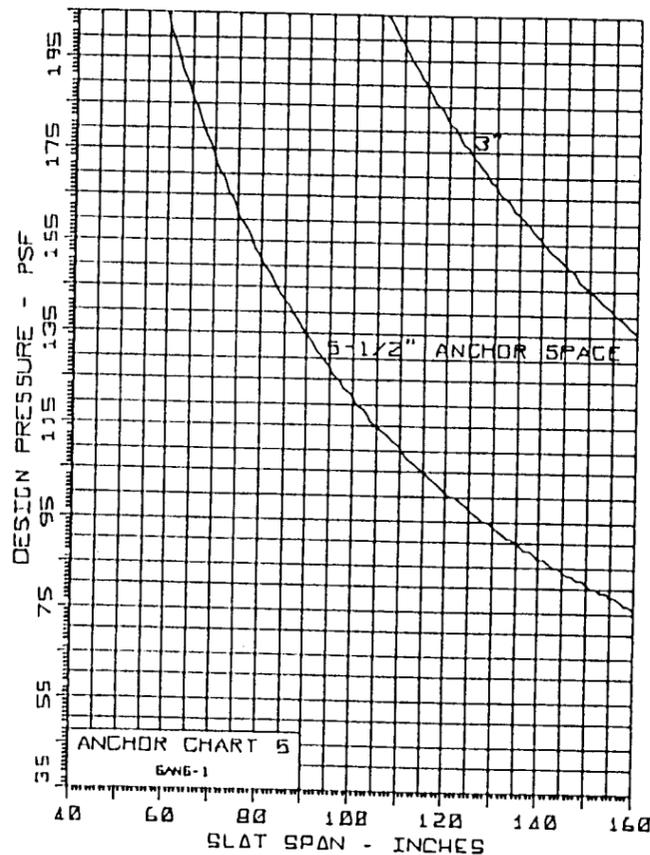
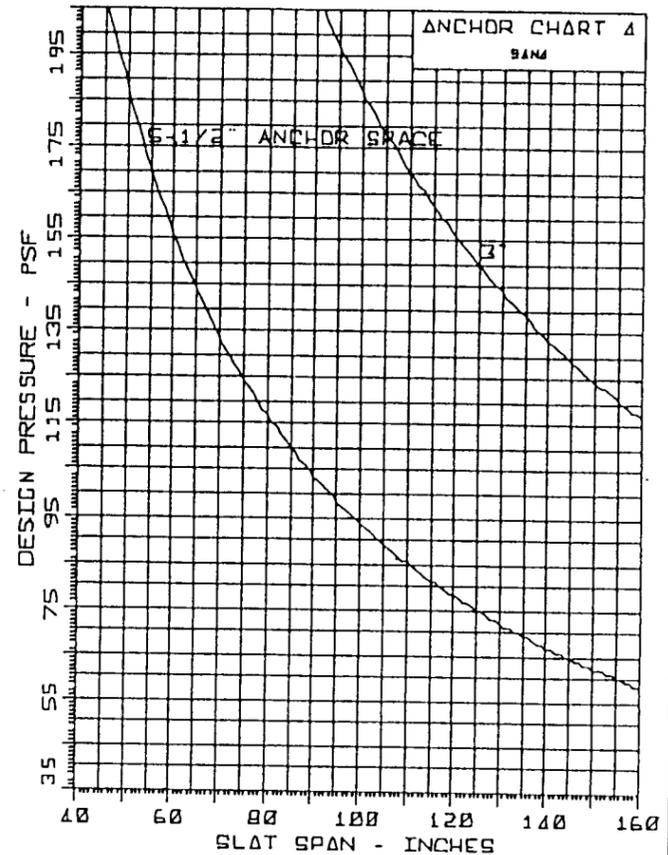
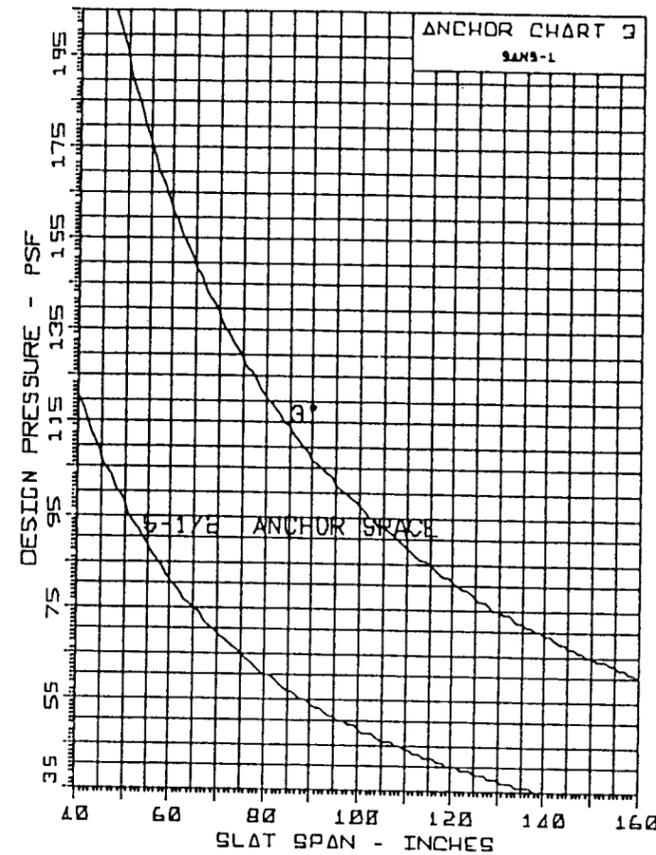
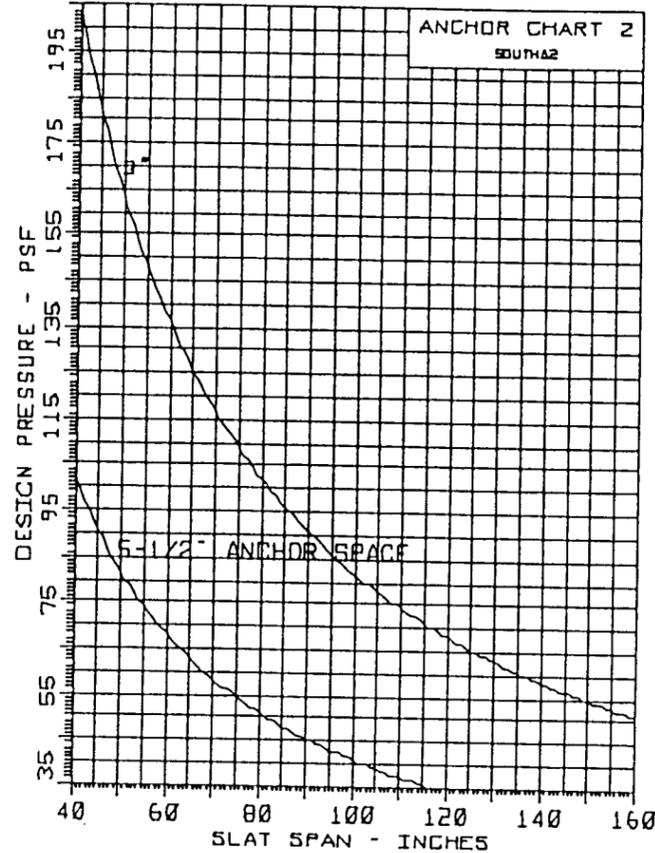
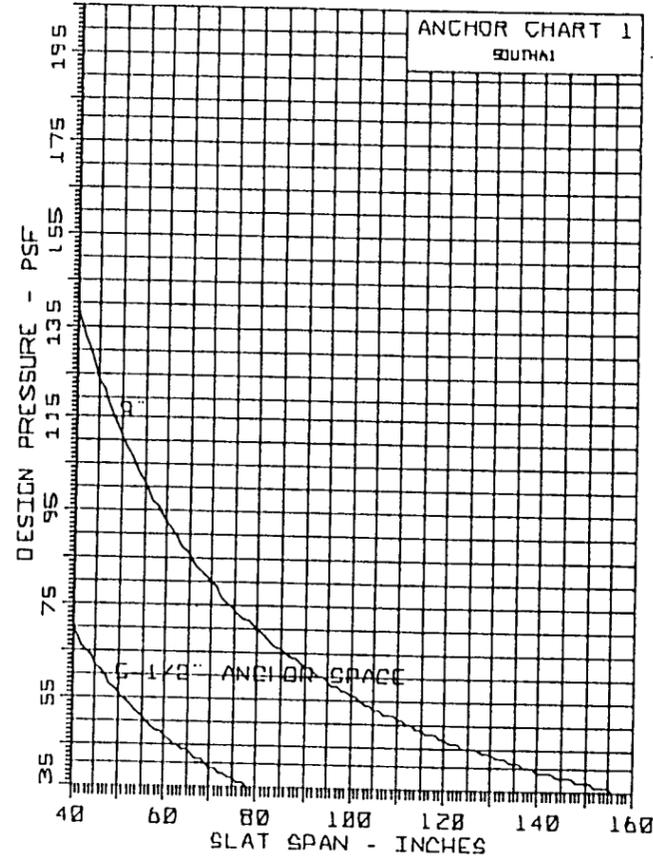
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NO.	DATE	DESCRIPTION

Revisions:
 Date: 01-13-94
 Author: 1/2" = 1"
 Design By:
 Drawn By: HMM
 Checked By:

drawing no.
96-05

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.	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 CHART)
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

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ENGINEER: HUMAYOUN FAROOQ
PE # 16557

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DATE MARCH 06, 1997
BY *Helmy A. Matar*
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ACCEPTANCE NO. 96-0521.01

JAN 31 1997

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NO.	DATE	DESCRIPTION

date: 01-11-96
scale: 1/2" = 1"
design by:
drawn by: HMB
checked by:

drawing no.
96-05
sheet 5 of 5