



**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)

www.miamidade.gov

**Shutters Depot
2345 West 80th Street, Bay #16
Hialeah, Florida 33016**

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: "AS-500 Advanced" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 06-13, titled "AS-500 Advanced Alum Accordion Shutter", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated October 26, 2006, last revision #A dated February 20, 2007, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by 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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
09/27/2007

**NOA No. 06-1121.07
Expiration Date: 09/27/2012
Approval Date: 09/27/2007**

Shutters Depot

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 06-13, titled "AS-500 Advanced Alum Accordion Shutter", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated October 26, 2006, last revision #A dated February 20, 2007, signed and sealed by Humayoun Farooq, P.E.*

B. TESTS

1. *See Association's generic approval under 07-3252.*

C. CALCULATIONS

1. *See Association's generic approval under 07-3252.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *See Association's generic approval under 07-3252.*

F. STATEMENTS

1. *Release letter issued by the RC Advanced Shutter Systems Association, Inc. dated June 08, 2007, certifying this product to meet the criteria of product tested and approved, and allowing Shutters Depot to use the test results approved under Miami Dade County Approval No. 07-3252, signed by Mr. Richard Gallo.*
2. *Acknowledgment letter by Shutters Depot, dated June 08, 2007, signed by Mr. Francisco Ceballos.*
3. *Letter by Al-Farooq Corporation, dated June 08, 2007, signed and sealed by Mr. Humayoun Farooq, P.E., certifying that the drawing (No. 06-13) prepared for Shutters Depot is engineering wise identical to RC Advanced Shutter Systems Association, Inc. generic drawing (No. 06-02A).*



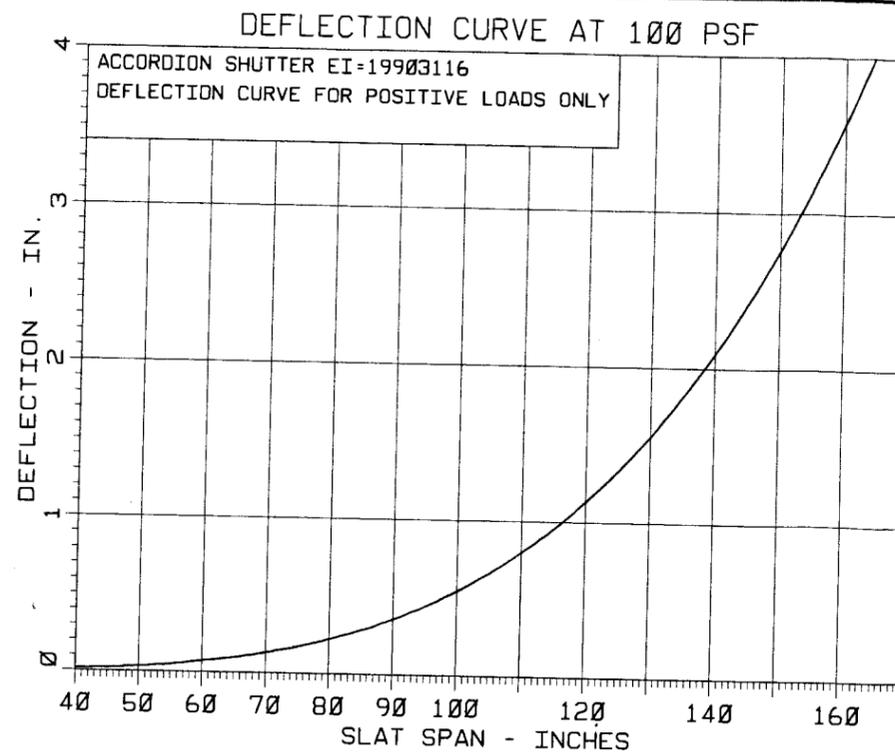
Helmy A. Makar, P.E., M.S.

Product Control Examiner

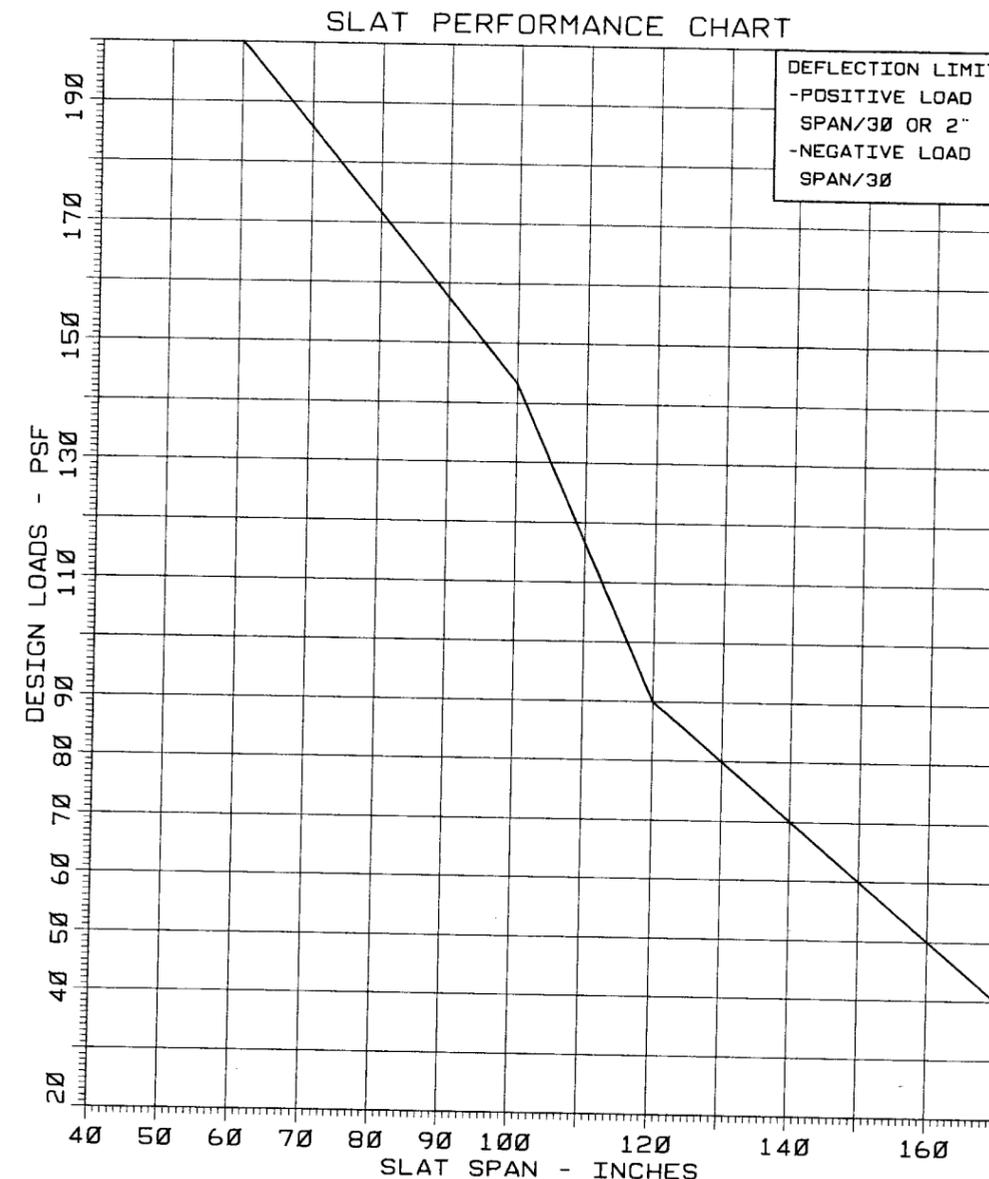
NOA No. 06-1121.07

Expiration Date: 09/27/2012

Approval Date: 09/27/2007



MINIMUM SEPARATION FROM GLASS			
SEPARATION REQD. DUE TO WIND LOAD		SEPARATION REQD. DUE TO LARGE MISSILE IMPACT	
SHUTTER SPAN = H =	IN.	FOR SLAT SPANS UPTO	SEPARATION
DESIGN LOAD = Pd =	PSF	96"	2-1/2"
FACTOR = K = Pd/100 =	IN.	120"	3"
READING FROM SPAN D. CURVE = D =	IN.	170"	3-5/8"
DEFLECTION AT Pd = K*D =	IN.		
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.			



USE SLAT PERFORMANCE CHART TO VERIFY SLAT CAPACITY FOR THE REQUIRED DESIGN LOAD FOR THE PARTICULAR LOCATION.

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-02.

GENERAL NOTES

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
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 AS SHOWN
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 SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. ALL BOLTS SHALL BE STAINLESS STEEL, ALUMINUM ALLOY 2024-T4 OR 7075-T6, OR PLATED STEEL. WING NUTS TO BE OF ZINC ALLOY.
7. DESIGN CRITERIA FOR SLATS: MAX DEFLECTION ≤ THE LESSER OF L/30 OR 2".
8. ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
9. A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

PRODUCT MARKING

A LABEL SHALL BE AFFIXED ON LOCKING MEMBER OF UNIT ABOVE LOCK WITH THE FOLLOWING STATEMENT.
SHUTTERS DEPOT, HIALEAH, FL.
'MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED'

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

[Signature] 27 2007

Approved as complying with the
Florida Building Code
Date: 09/27/2007
NOA# 06-1121-07
Miami Dade Product Control
Division
By: *[Signature]*

ACCORDION/06-13SD

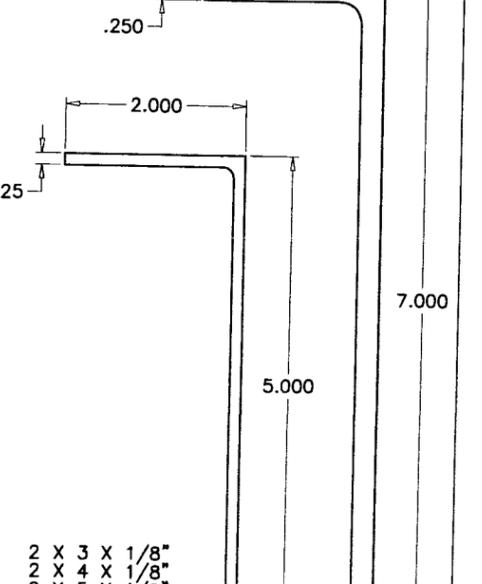
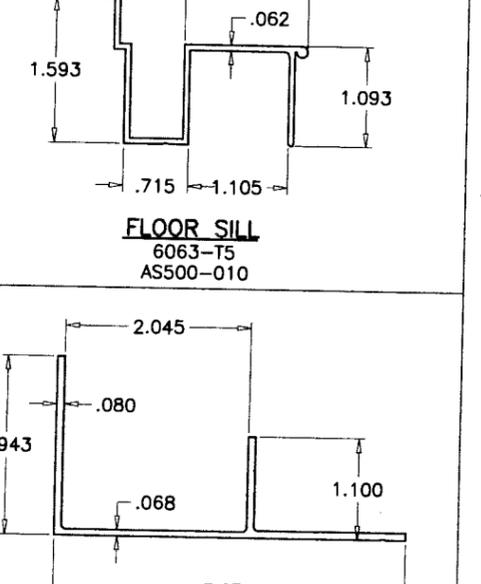
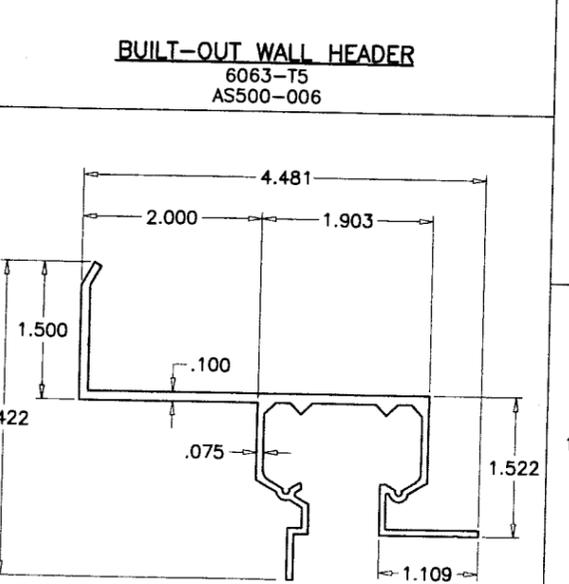
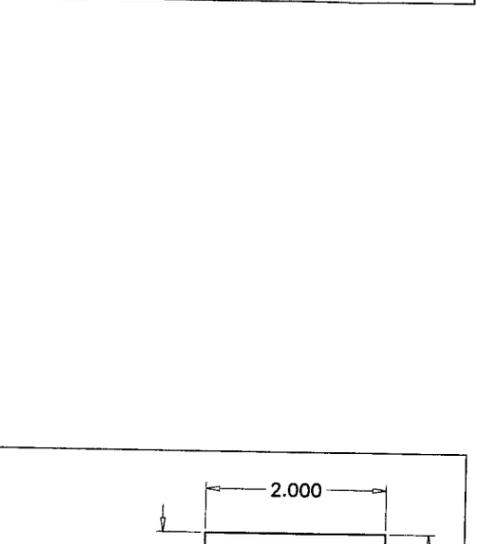
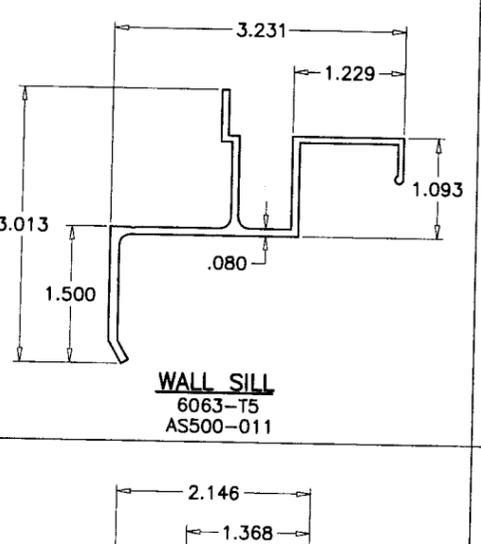
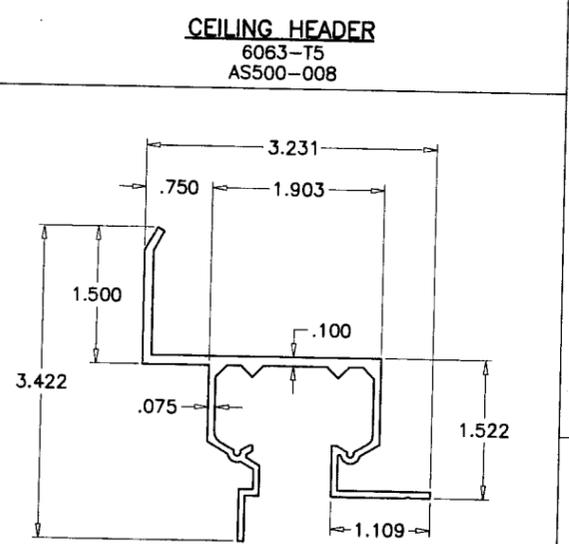
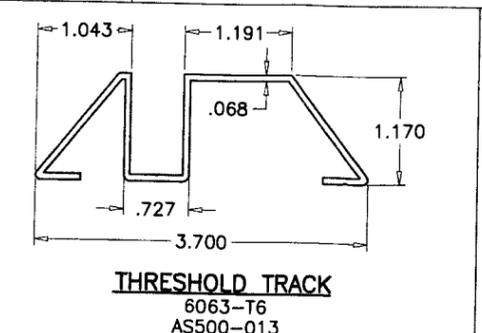
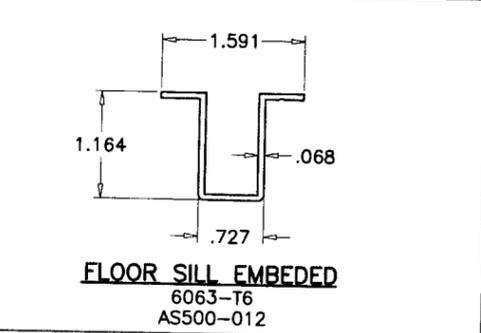
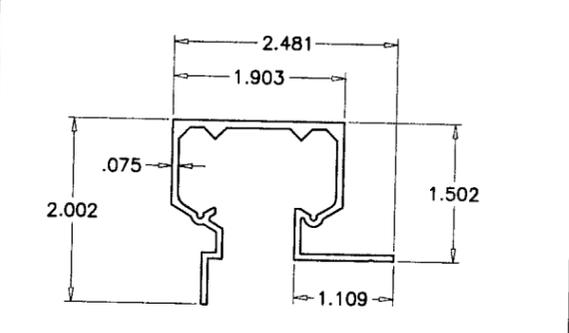
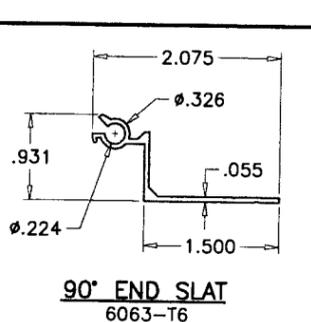
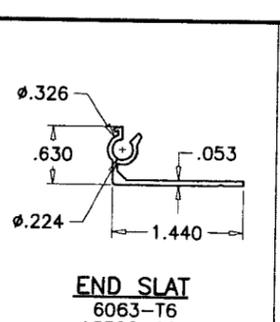
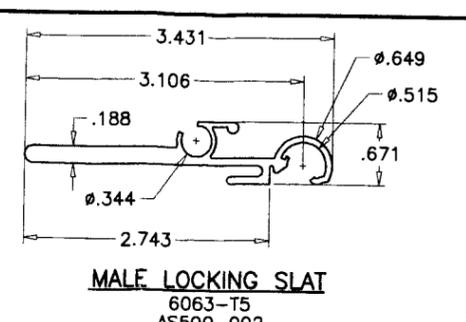
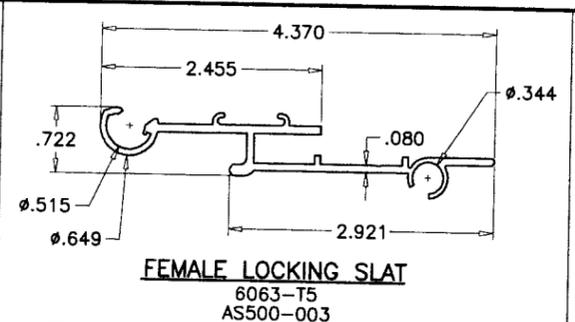
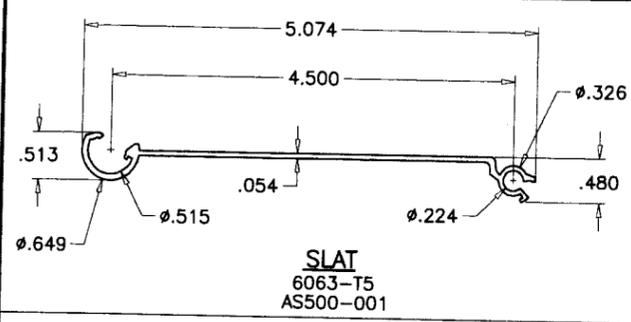
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

AS-500 ADVANCED ALUM ACCORDION SHUTTER

SHUTTERS DEPOT
2345 W 80TH STREET, BAY #16
HIALEAH, FL. 33016
TEL. (305) 822-3575 FAX. (305) 822-3731

date: 10-26-06	no. 10-26-06	description: SLAT CHART REV.	by:	date: 10-26-06	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
				drawing no. 06-13			
sheet 1 of 7							



Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

Jun 27 2007

Approved as complying with the
 Florida Building Code
 Date: 09/27/2007
 NOA# 06-1121-07
 Miami Dade Product Control
 Division/
 By: *Helmy A. Madan*

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 ACCORDION/06-135D

AS-500 ADVANCED ALUM ACCORDION SHUTTER
 SHUTTERS DEPOT
 2345 W 80TH STREET, BAY #16
 HIALEAH, FL. 33016
 TEL. (305) 822-3575 FAX. (305) 822-3731

no	date	description	by
A	02.20.07	NO CHANGE THIS SHEET	

revisions:

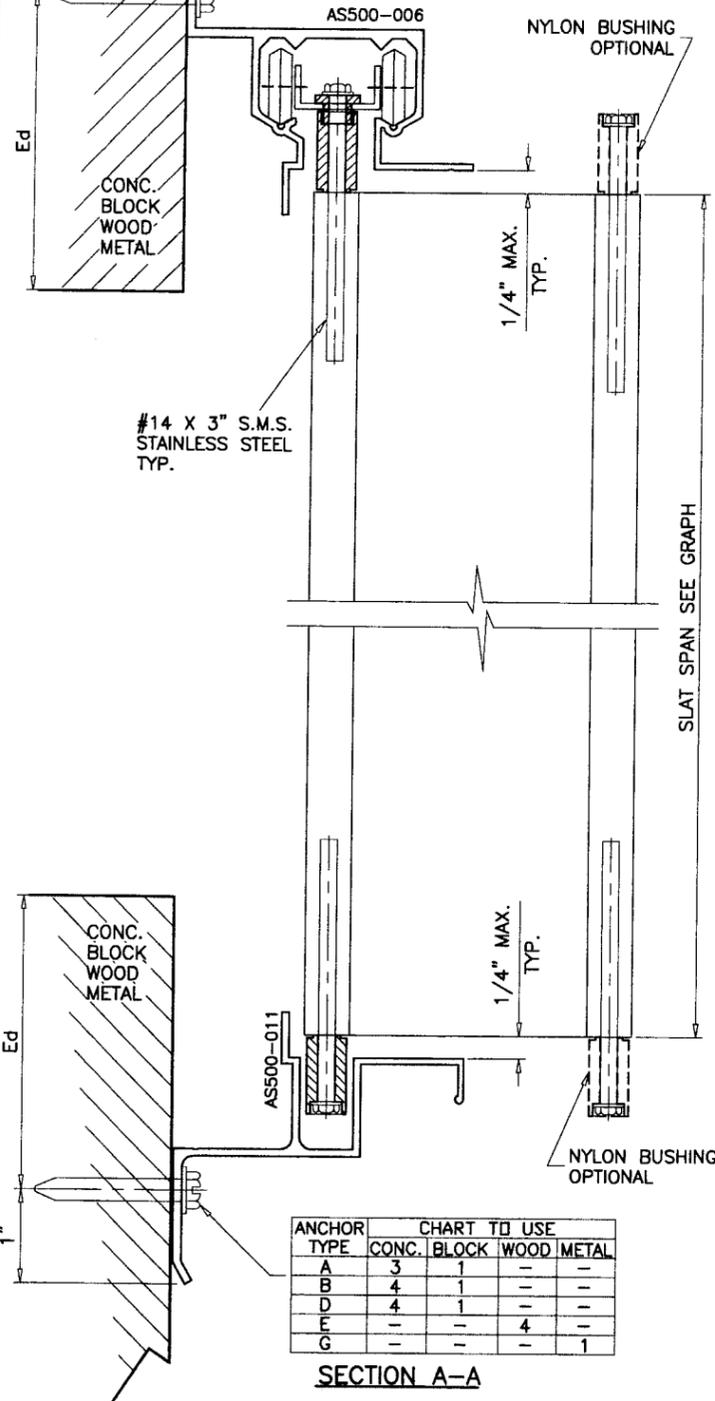
date: 10-26-06
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
06-13

sheet 2 of 7

WALL MOUNTS

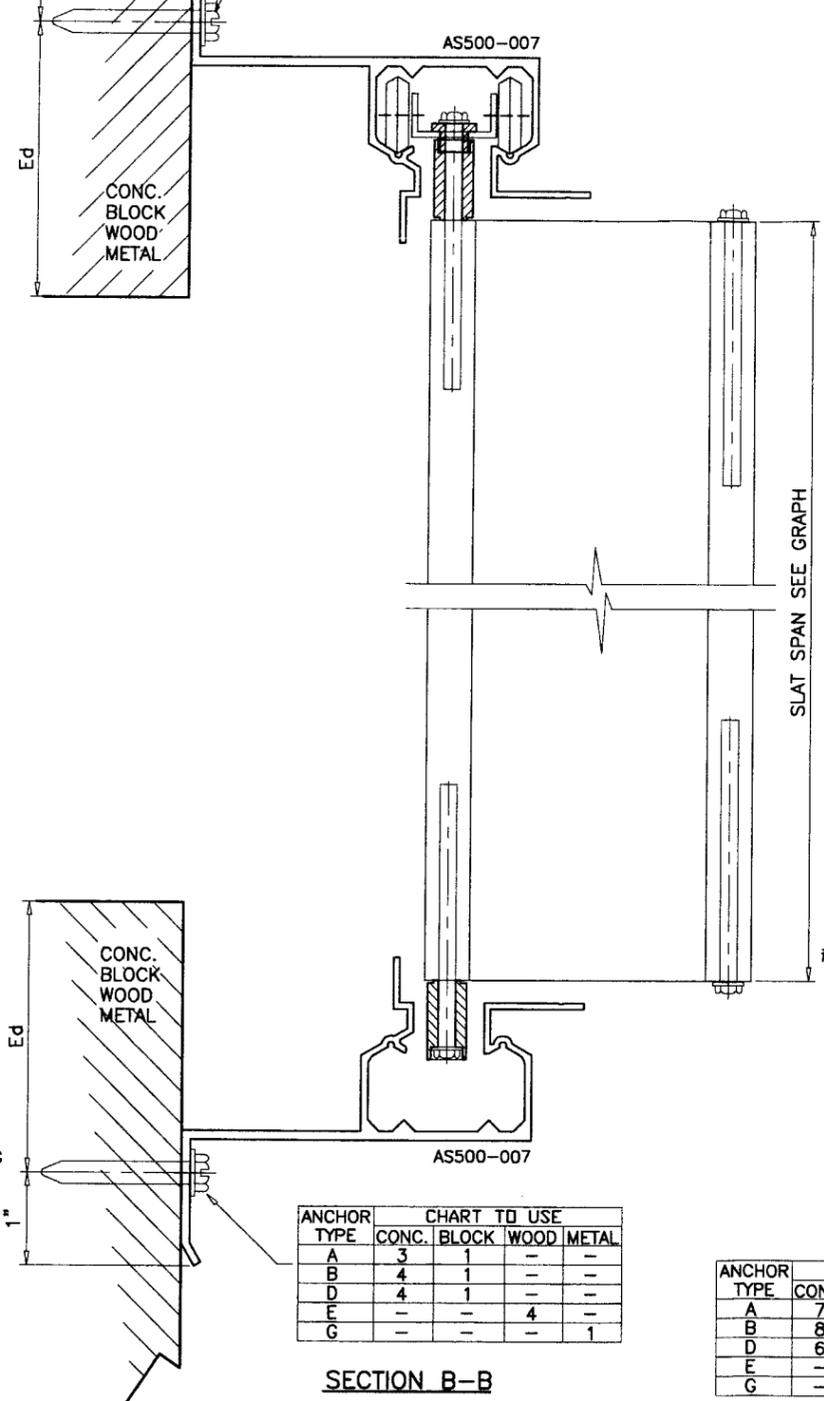
ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	3	1	-	-
B	4	1	-	-
D	4	1	-	-
F	-	-	4	-
G	-	-	-	1



SECTION A-A

ALT. WALL MOUNTS

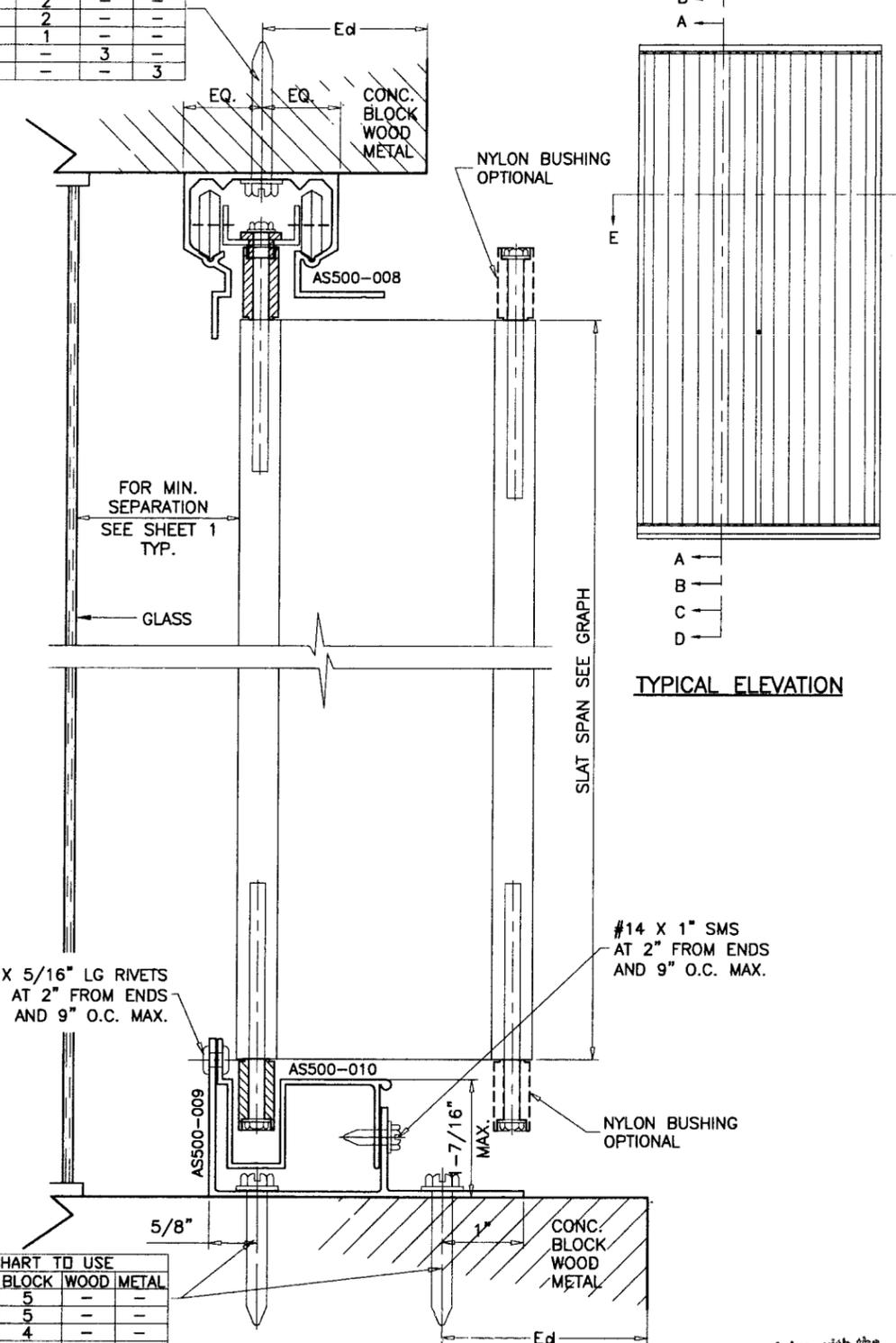
ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	3	1	-	-
B	4	1	-	-
D	4	1	-	-
F	-	-	4	-
G	-	-	-	1



SECTION B-B

INSIDE MOUNTS

ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	4	2	-	-
B	6	2	-	-
D	4	1	-	-
E	-	-	3	-
G	-	-	-	3



SECTION C-C

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 Miami Dept Product Control
 Division By: *Helmy A. Mahr*

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

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 6 OF 6.

HEADER AND SILL DETAILS CAN BE USED IN ANY COMBINATIONS.

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEET 1 OF 6.
 FOR WOOD INSTALLATIONS SEE SHEET 5 OF 6.
 FOR ANCHOR CHARTS SEE SHEET 6 OF 6.

JUN 27 2007

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AL-FAROOQ CORPORATION
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 ACCORDION/06-13SD

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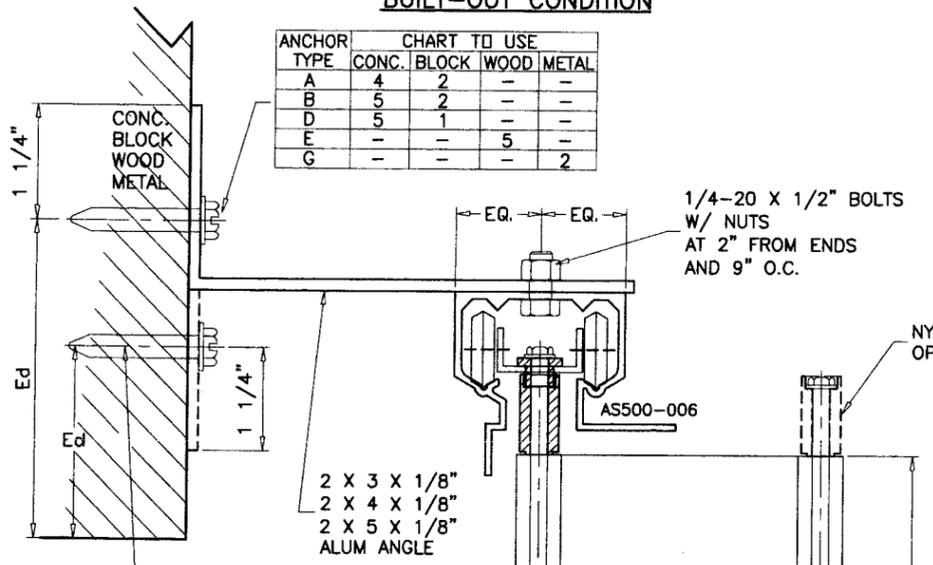
Revisions:

no	date	description
A	02.20.07	NYLON BUSHING REV.

date: 10-26-06
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
06-13
 sheet 3 of 7

BUILT-OUT CONDITION



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

1/4-20 X 1/2" BOLTS
W/ NUTS
AT 2" FROM ENDS
AND 9" O.C.

NYLON BUSHING
OPTIONAL

2 X 3 X 1/8"
2 X 4 X 1/8"
2 X 5 X 1/8"
ALUM ANGLE

ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	6	3	-	-
B	7	3	-	-
D	7	2	-	-
E	-	-	6	-
G	-	-	-	3

SLAT SPAN SEE GRAPH

#5 X 5/16" LG RIVETS
AT 2" FROM ENDS
AND 9" O.C. MAX.

ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	5	2	-	-
B	6	2	-	-
D	6	2	-	-
E	-	-	6	-
G	-	-	-	3

#14 X 1" SMS
AT 2" FROM ENDS
AND 9" O.C. MAX.

NYLON BUSHING
OPTIONAL

1/4-20 X 1/2" BOLTS
W/ NUTS OR
#14 SMS/TEKS
AT 2" FROM ENDS
AND 9" O.C.

2 X 3 X 1/8"
2 X 4 X 1/8"
2 X 5 X 1/8"
ALUM ANGLE

ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	6	4	-	-
B	7	3	-	-
D	5	3	-	-
E	-	-	4	-
G	-	-	-	4

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
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JUN 27 2007

ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	8	8	-	-
B	8	7	-	-
D	7	6	-	-
E	-	-	6	-
G	-	-	-	8

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

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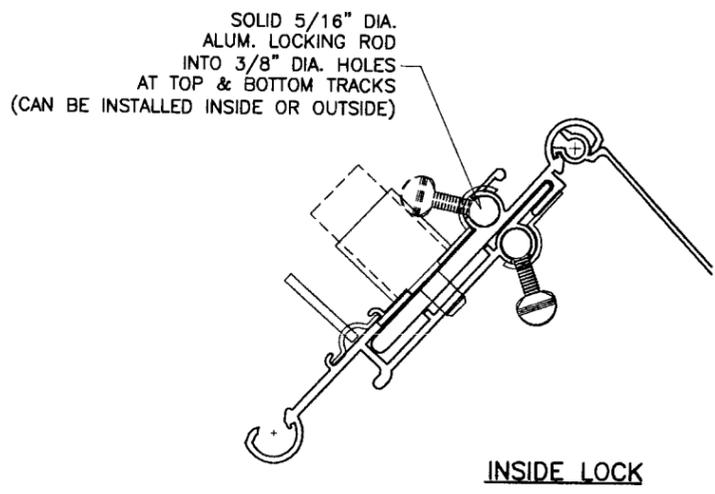
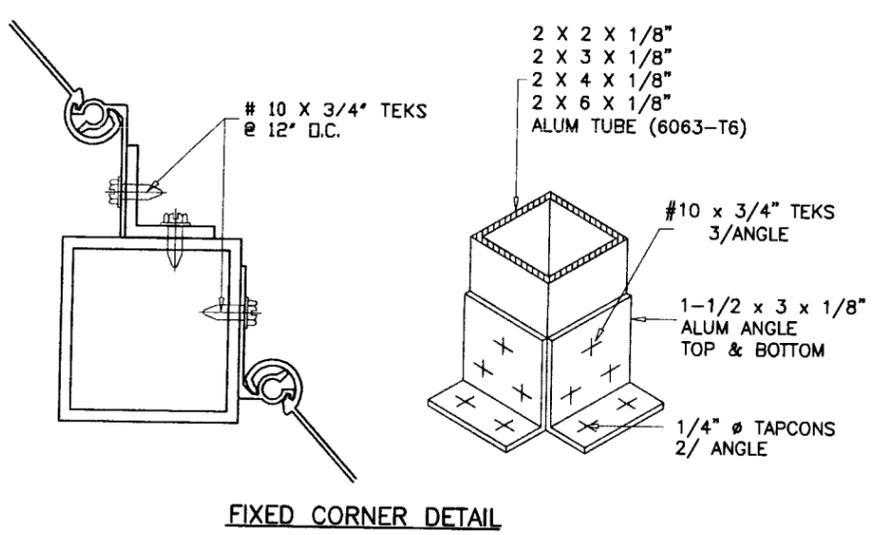
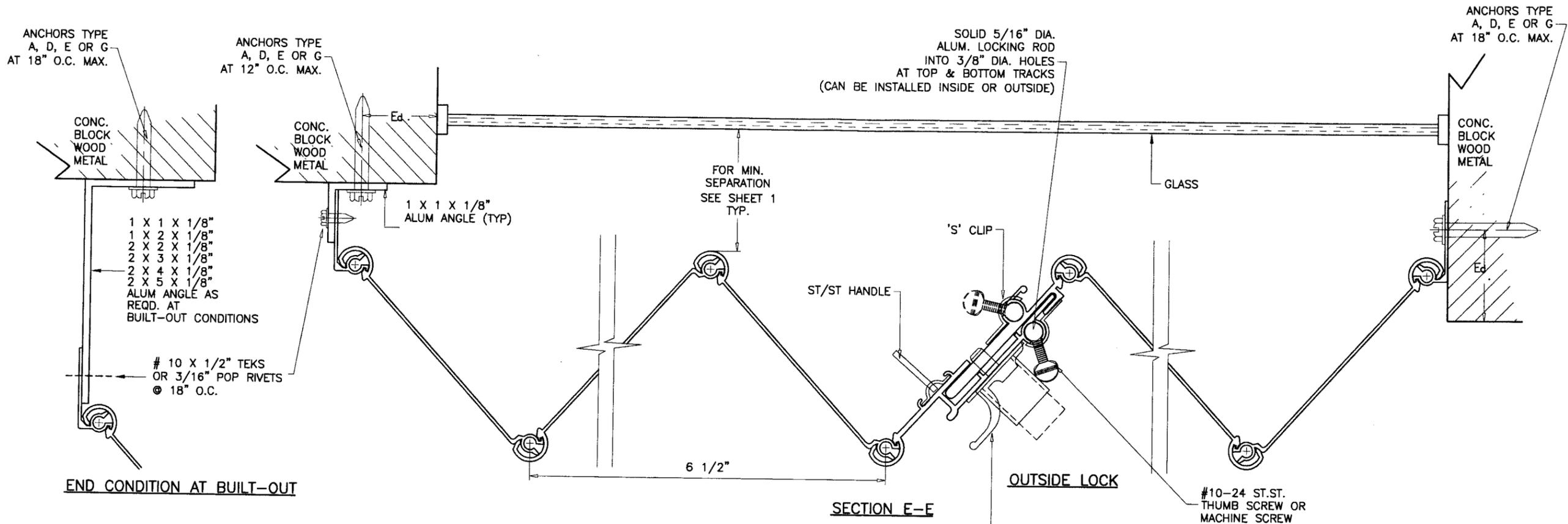
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revisions:

no	date	description
A	02.20.07	NYLON BUSHING REV.

date: 10-26-06
scale: 1/2" = 1"
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sheet 4 of 7



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 By: *Helmy A. Helmy*

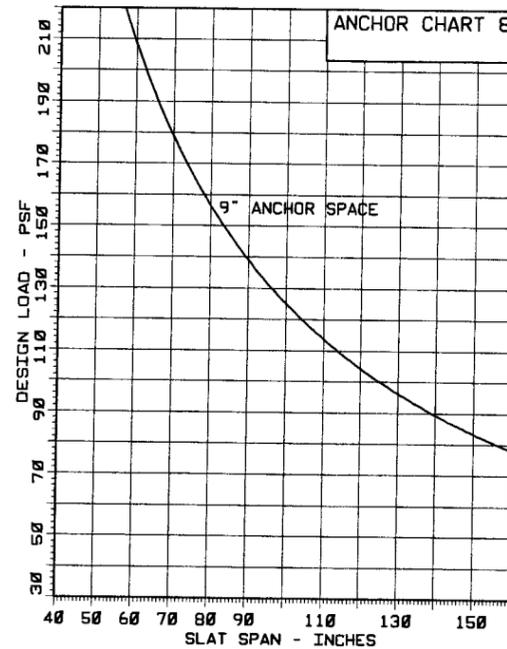
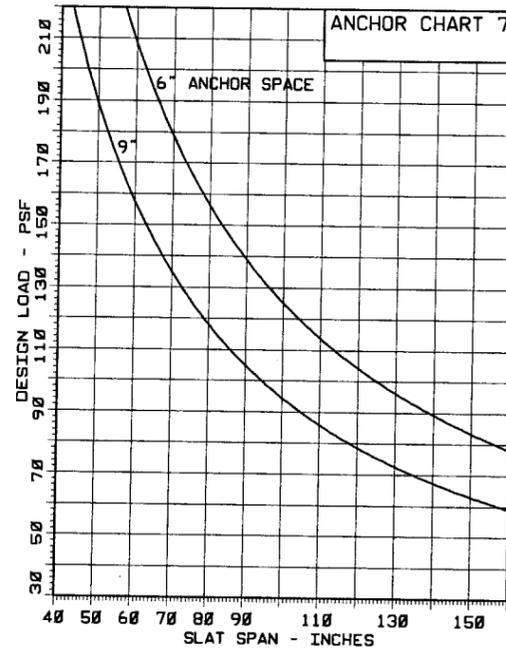
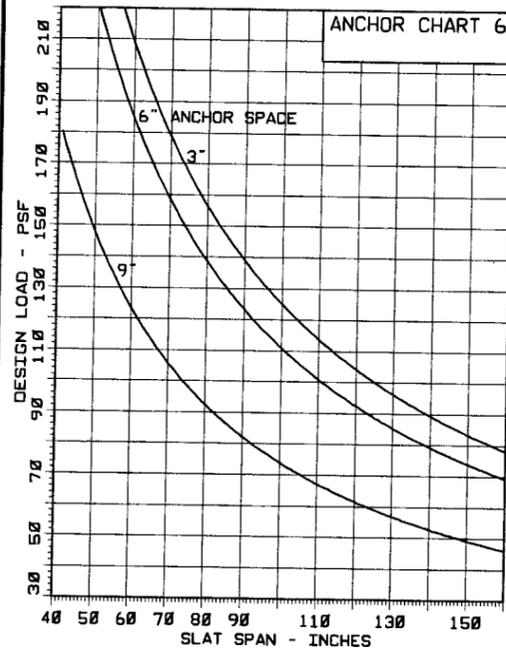
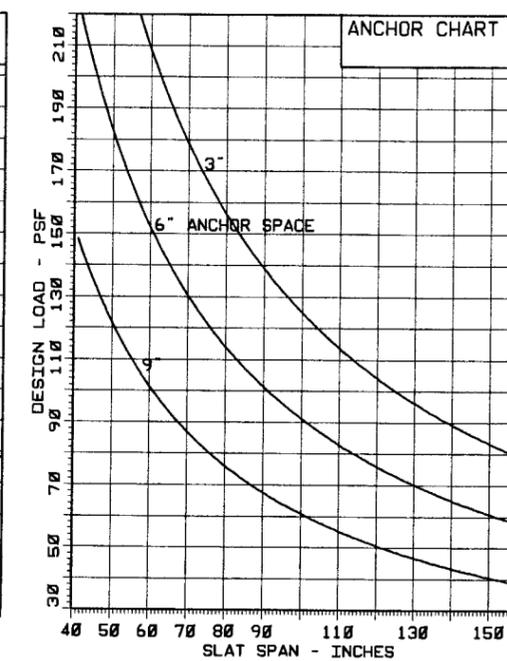
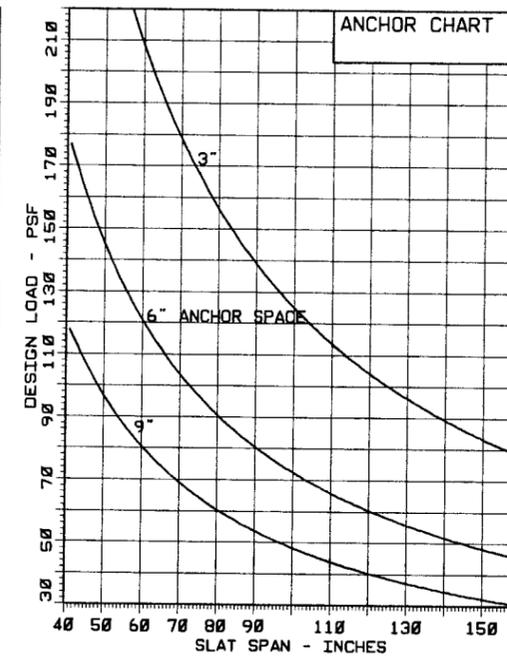
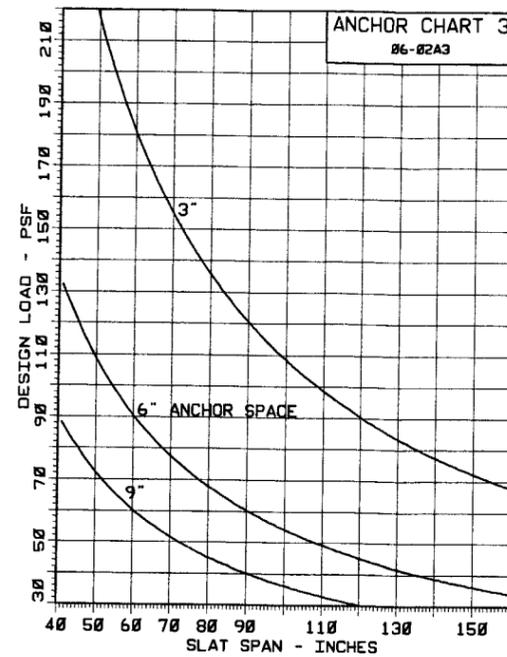
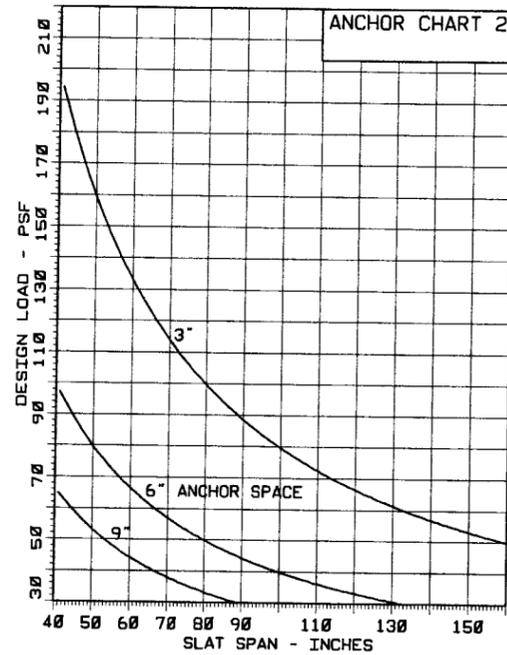
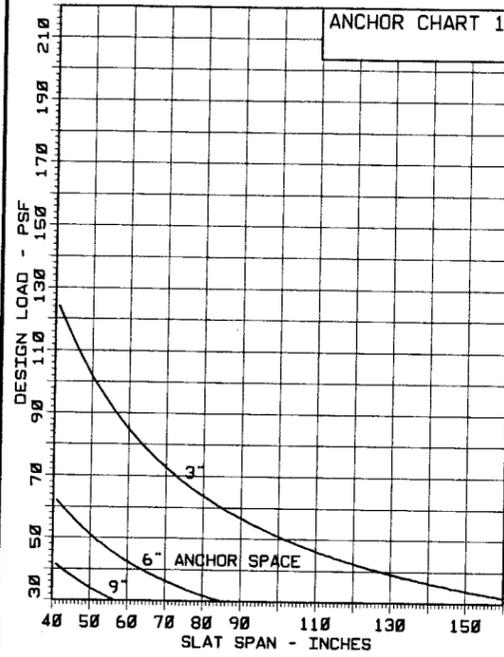
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no	date	by	description	LOCK REV.
A	02.20.07			

date: 10-26-06	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
drawing no. 06-13			
sheet 5 of 7			



TYPICAL ANCHORS:

- ANCHOR (A) = **1/4" DIA. TAPCONS** (BY ELCO)
1-3/4" EMBEDMENT INTO 3000 PSI CONC.
1-1/4" EMBEDMENT INTO C-90 BLOCK
- ANCHOR (B) = **1/4" DIA. KWIKCON II** (BY HILTI)
1-3/4" EMBEDMENT INTO 3000 PSI CONC.
1-1/4" EMBEDMENT INTO C-90 BLOCK
- ANCHOR (D) = **1/4" RAWL CALK-IN**
TOTAL ANCHOR BODY INTO 3000 PSI CONC.
OR C-90 BLOCK
- ANCHOR (E) = **1/4" DIA. TAPCONS**
1-1/2" MIN PENETRATION INTO WOOD(S.G.=0.55)
- ANCHOR (G) = **1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS**
INTO METAL STRUCTURES
(STEEL OR ALUMINUM 1/8" MIN. THICK.)

NOTE: ANCHORS EMBEDMENT SHOWN IS BEYOND WALL & FLOOR COVERINGS (STUCCO, TILES, ETC.)

Approved as complying with the
Florida Building Code
Date 09/27/2007
NOAH 06-1121-07
Miami Code Product Control
Division
By Helmy A. Madh

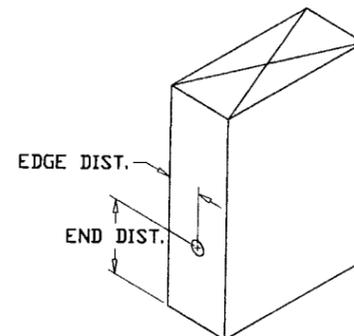
FASTENER SPACING IN MASONRY/CONCRETE

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 = 9" O.C. (FROM CHART)
FOR 2" EDGE DIST. SPACING = 9 X .71 = 6.4 O.C.

TYPICAL EDGE DISTANCE IN WOOD = 3/4"
TYPICAL END DISTANCE IN WOOD = 1"
NO REDUCTION FACTOR IS REQUIRED



USE CHARTS 1 THRU 8 TO VERIFY ANCHOR REQUIREMENTS AND STRESS LIMITATIONS OF LOAD/SPAN COMBINATIONS FOR HEADER AND SILL.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
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[Signature]
JUN 27 2007

afC
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revisions:

NO	DATE	DESCRIPTION
A	02.20.07	NO CHANGE THIS SHEET

date: 10-26-06
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
06-13
sheet 7 of 7

ACCORDION/06-13SD