



MIAMI-DADE COUNTY
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

Central Aluminum Distributors, Inc.
332 Maguire Road
Ocoee, Florida 34761

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: "Roc-Head" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 07-08, titled "Roc-Head Accordion Shutter", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated April 05, 2007, last revision #B dated August 07, 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 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 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
 09/06/2007

NOA No. 07-0509.04
Expiration Date: 09/06/2012
Approval Date: 09/06/2007
Page 1

Central Aluminum Distributors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS:

1. *Drawing No. 07-08, titled " Roc-Head Accordion Shutter ", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated April 05, 2007, last revision #B dated August 07, 2007, signed and sealed by Humayoun Farooq, P.E.*

B. TESTS:

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of Accordion Shutter, prepared by Fenestration Testing Laboratory, Inc., Report No. 07-539, dated 03/30/2007, signed and sealed by Carlos S. Rionda, P.E.*

C. CALCULATIONS:

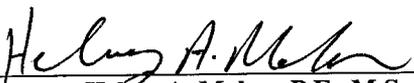
1. *Comparative Analysis and Anchor calculation, dated May 03, 2007, sheets S1-S4, A1-A30, AP1-AP14, C1-C18, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.*

D. QUALITY CONTROL

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

E. MATERIAL CERTIFICATION:

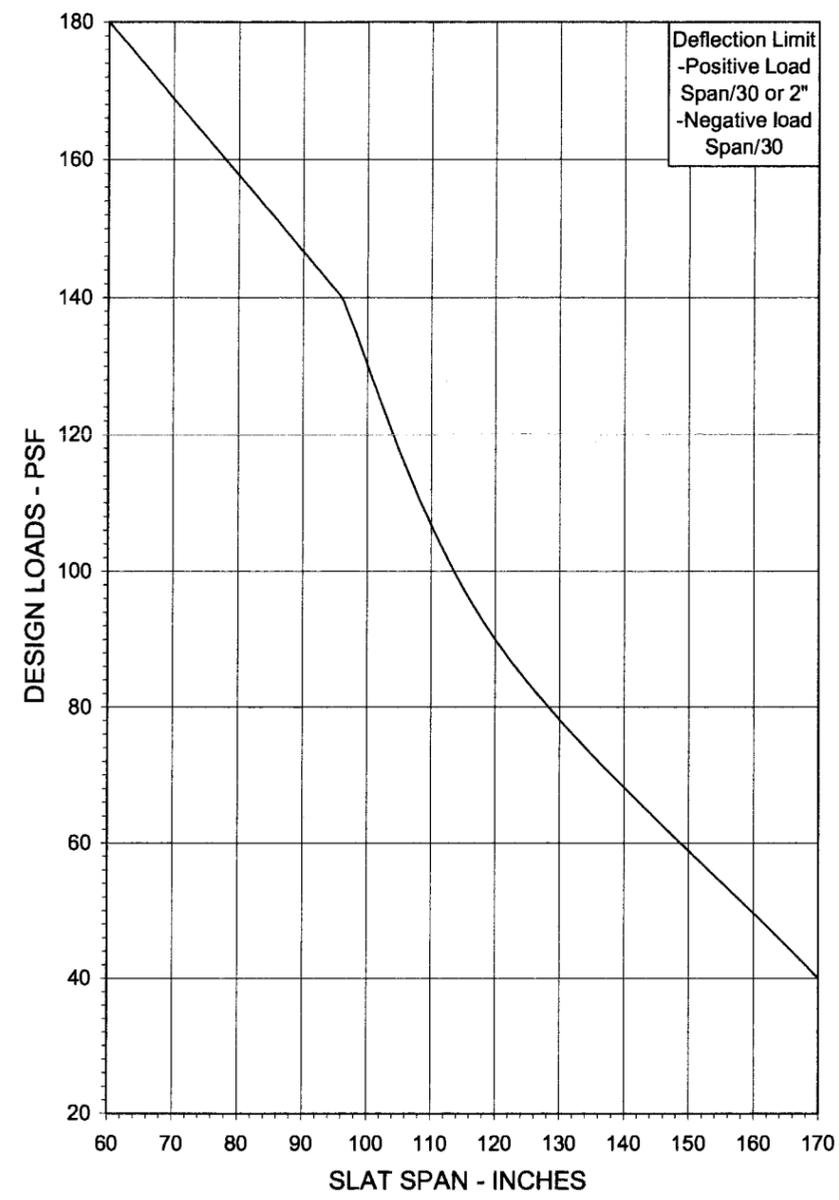
1. *Tensile Test Report prepared by Fenestration Testing Laboratory, Inc., Report No. 07-539, dated 04/17/2007, signed and sealed by Carlos S. Rionda, P.E.*



Henry A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 07-0509.04
Expiration Date: 09/06/2012
Approval Date: 09/06/2007

GLASS SEPARATION CHART			
SLAT SPAN	DEFLECTION	MIN. SEPARATION REQ. FROM GLASS	
		DUE TO WIND LOAD	DUE TO LARGE MISSILE IMPACT
60"	.254"	1.250"	2"
96"	1.103"	2.103"	2-7/8"
120"	1.273"	2.273"	3-1/8"
170"	2.296"	3.296"	3-1/8"

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 \leq 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.
 CENTRAL ALUMINUM DISTRIBUTORS INC., OCOEE, FL.
 'MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED'

Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 AUG 08 2007

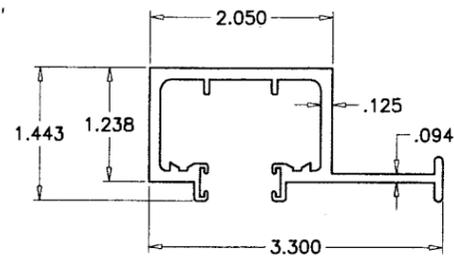
Approved as complying with the Florida Building Code
 Date 09/06/2007
 NOA# 07-0509-04
 Miami Dade Product Control
 Division By: *Heung A. Moh*

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B	08.07.07		NO CHANGE THIS SHEET

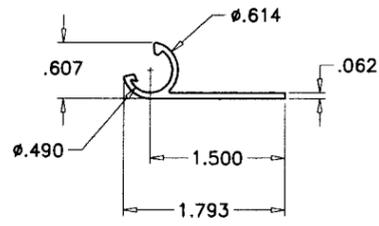
revisions:

date: 04-05-07
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

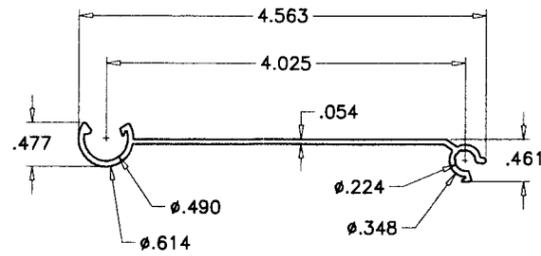
drawing no.
07-08
 sheet 1 of 7



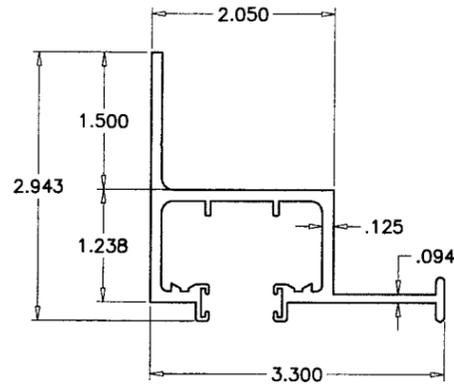
CEILING HEADER
6063-T6



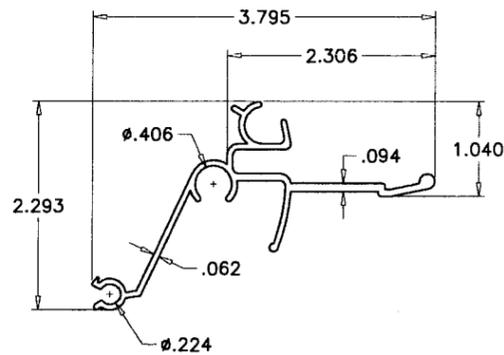
STARTER SLAT
6063-T6



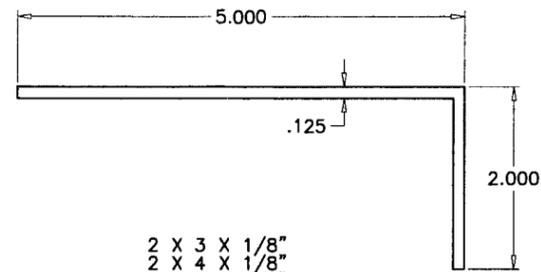
SLAT
6063-T6



WALL HEADER
6063-T6

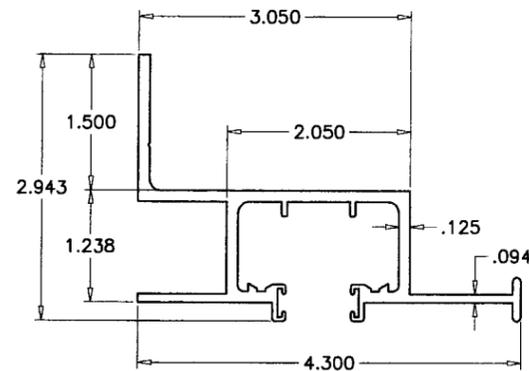


MALE LOCKING SLAT
6063-T6

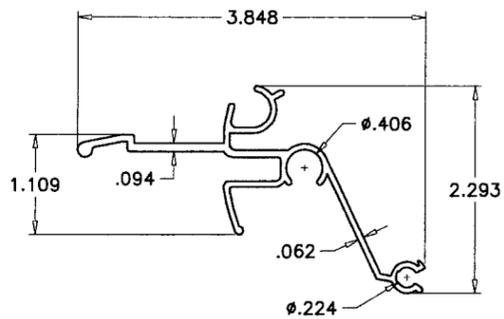


BUILT-OUT ANGLES
6063-T6

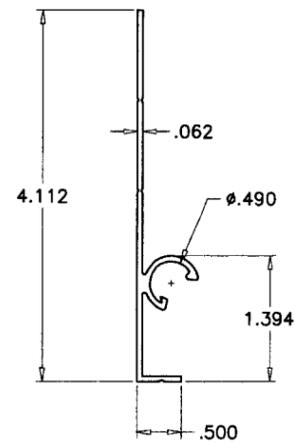
2 X 3 X 1/8"
2 X 4 X 1/8"
2 X 5 X 1/8"



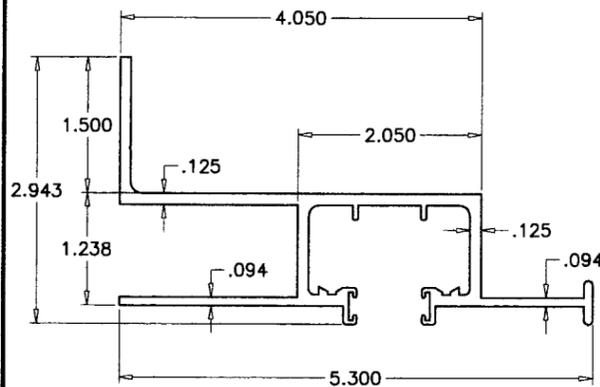
1" WALL HEADER
6063-T6



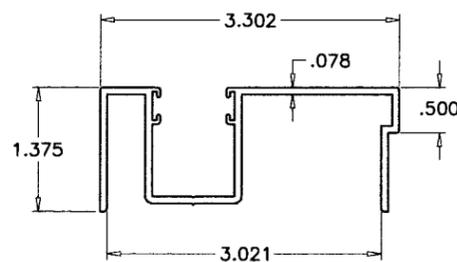
FEMALE LOCKING SLAT
6063-T6



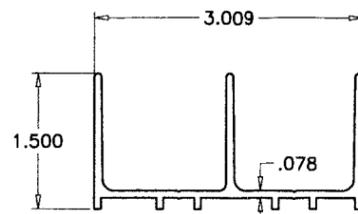
END COVER
6063-T6



2" WALL HEADER
6063-T6



SILL TRACK
6063-T6



SILL TRACK ADAPTER
6063-T6

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

AUG 08 2007

Approved as complying with the
Florida Building Code
Date 09/06/2007
NOAH 07-0509.04
Miami Date Product Control
By Helmy A. Helmy

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
ACCORDION/07-08CAD

ROC-HEAD ACCORDION SHUTTER
CENTRAL ALUMINUM DISTRIBUTORS INC.
332 MCGUIRE ROAD
OCOOEE, FL. 34761
TEL. (407) 654-7522 FAX. (407) 654-7533

no	date	description
A	06.01.07	NO CHANGE THIS SHEET
B	08.07.07	REV. PER BCOO COMMENTS

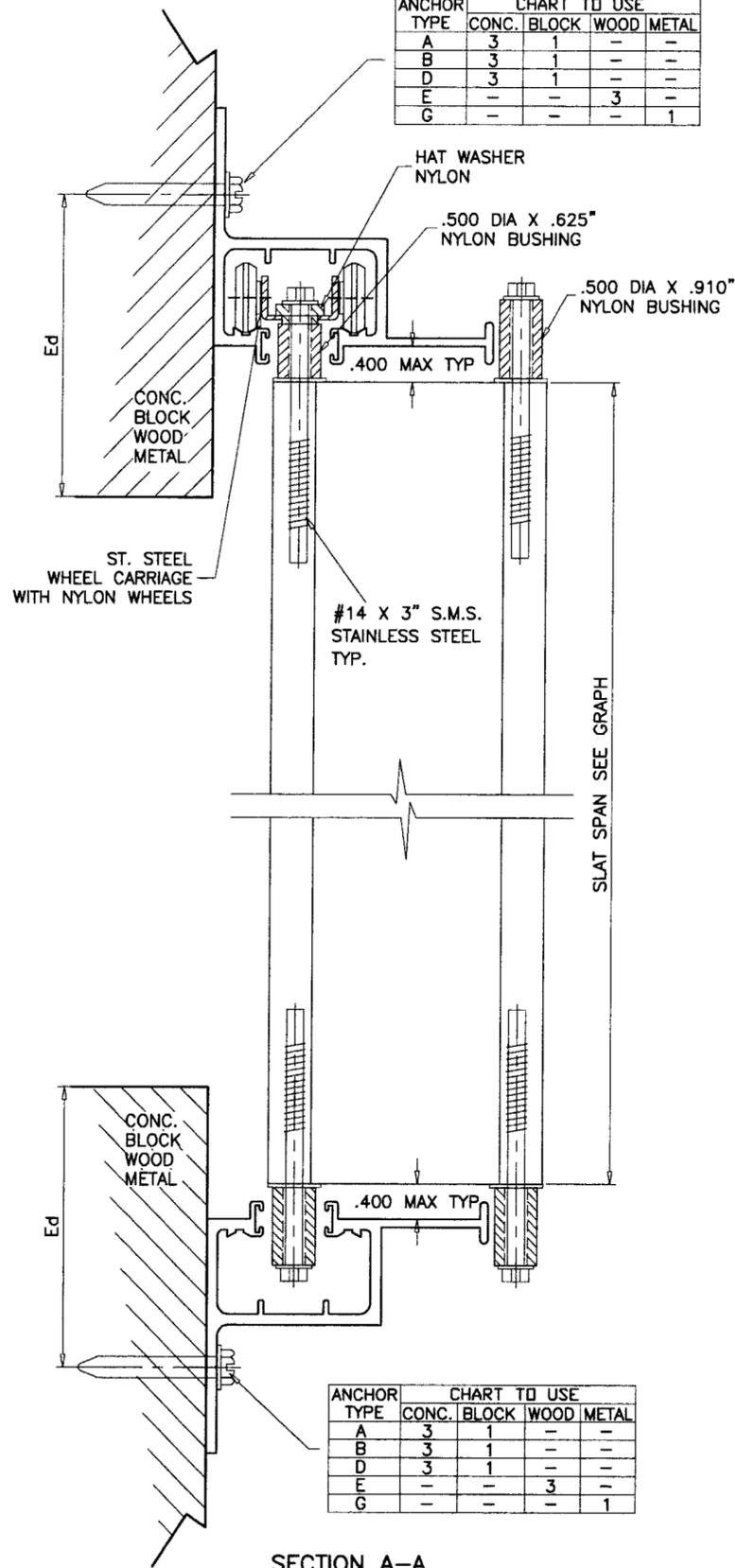
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
07-08

sheet 2 of 7

WALL MOUNTS

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

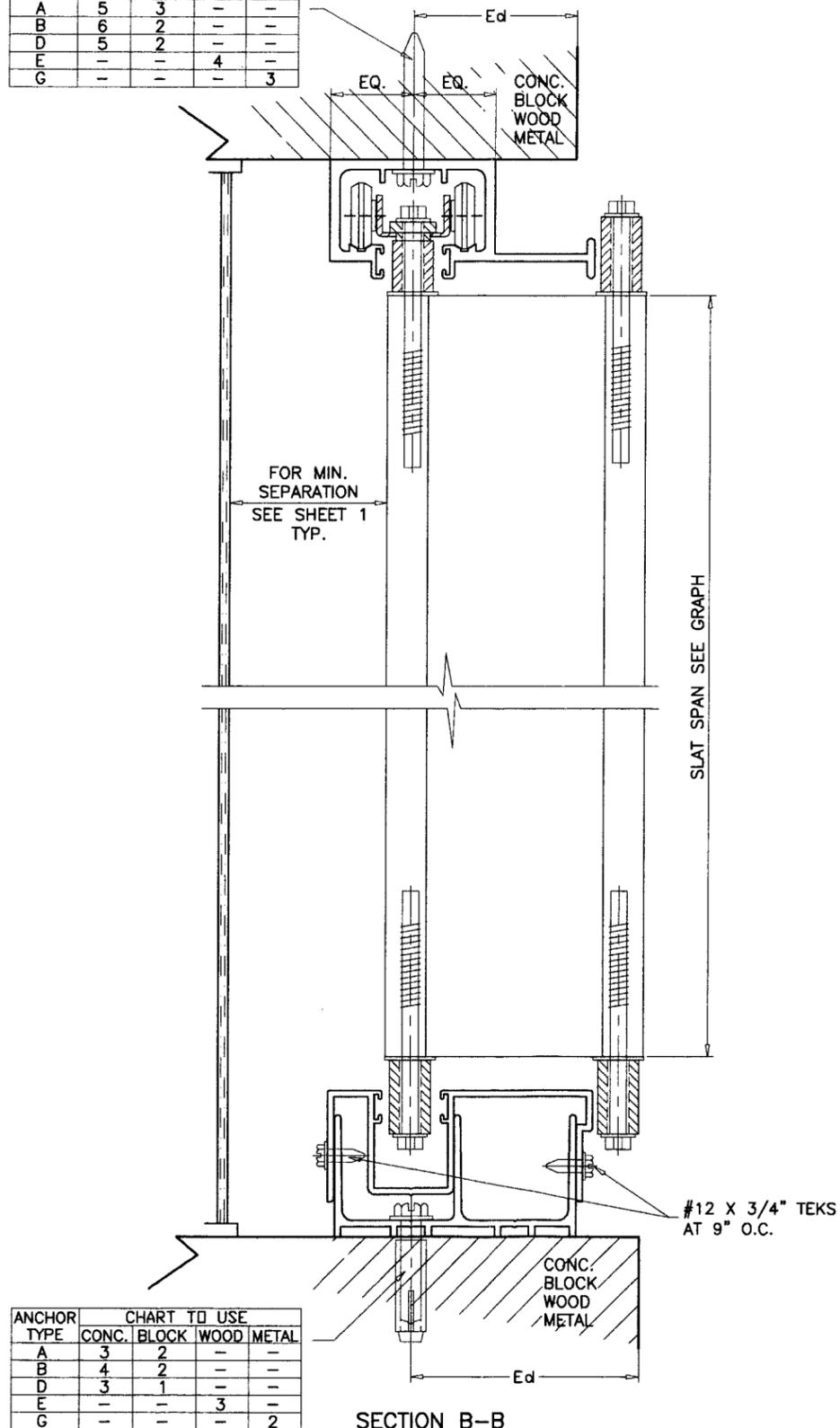


SECTION A-A

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

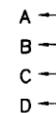
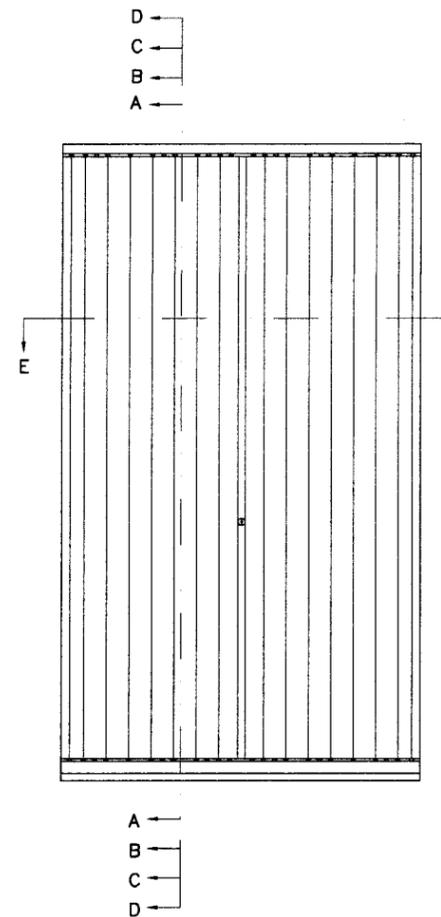
INSIDE MOUNTS

ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	5	3	-	-
B	5	2	-	-
D	5	2	-	-
E	-	-	4	-
G	-	-	-	3



SECTION B-B

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



TYPICAL ELEVATION

HEADER AND SILL DETAILS CAN BE USED IN ANY COMBINATIONS.

Approved as complying with the Florida Building Code
 Date: 09/06/2007
 NOA# 07-0509-04
 Miami Dade Product Control Division
 By: *Helmy A. Helmy*

Engr. DR. HUMAYOUN FAROOQ
 STRUCTURES
 F.L.A. FE # 16547
 C.A.N. 3538

AUG 08 2007

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEET 1 OF 7.
 FOR WOOD INSTALLATIONS SEE SHEET 6 OF 7.
 FOR ANCHOR CHARTS SEE SHEET 7 OF 7.

Ed = TYPICAL EDGE DISTANCE
 CONC. & BLOCK = 12d (12 ANCHOR DIAMETERS)
 WOOD = 5d
 FOR LESSER EDGE DISTANCES SEE SHEET 7 OF 7.

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

af c
AL-FAROOQ CORPORATION
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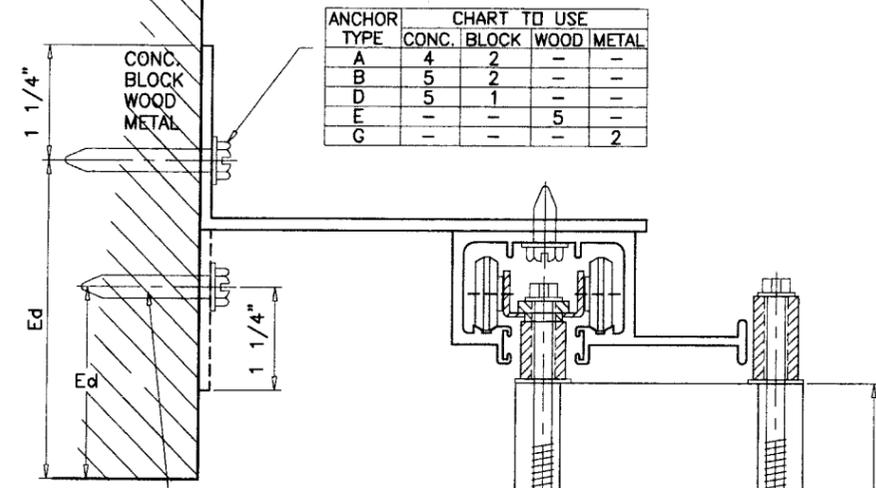
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 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
07-08

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

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

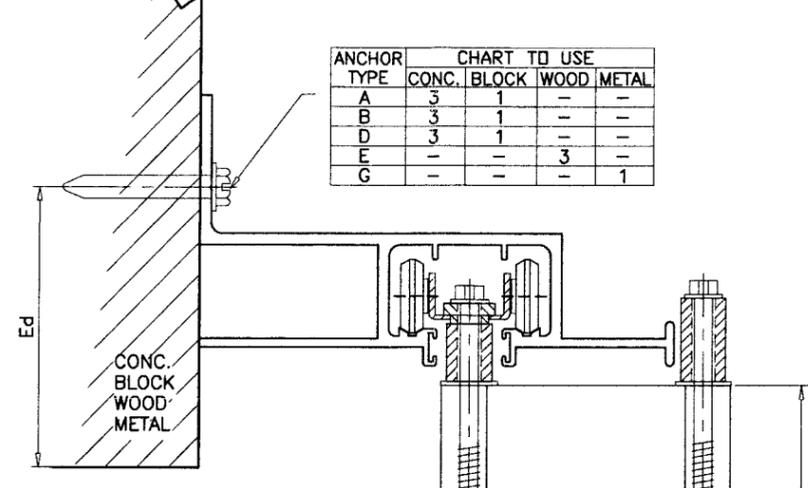
ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	6	3	-	-
B	6	3	-	-
D	6	2	-	-
E	-	-	6	-
G	-	-	-	3

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

#14 X 5/8" TEKS AT 12" O.C.

SECTION C-C

BUILT-OUT CONDITION



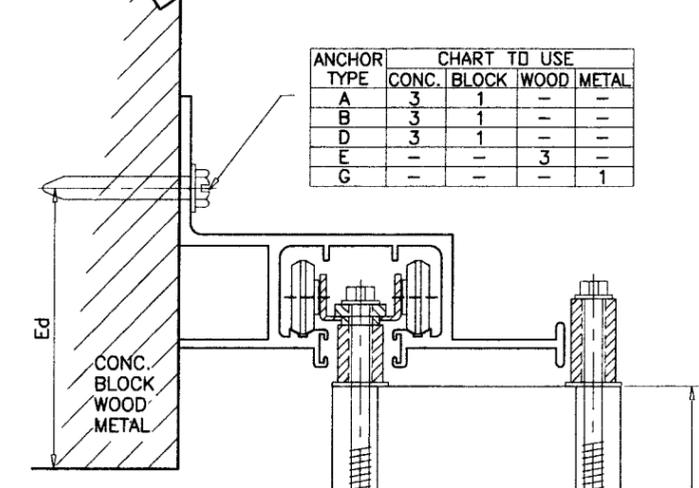
ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	3	1	-	-
B	3	1	-	-
D	3	1	-	-
E	-	-	3	-
G	-	-	-	1

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

#14 X 5/8" TEKS AT 12" O.C.

SECTION D-D

BUILT-OUT CONDITION



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

#12 X 3/4" TEKS AT 9" O.C.

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
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AUG 8 2007

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NOA# 07-0509-04
Miami Code Product Control
Division
By: *Herby A. Mator*

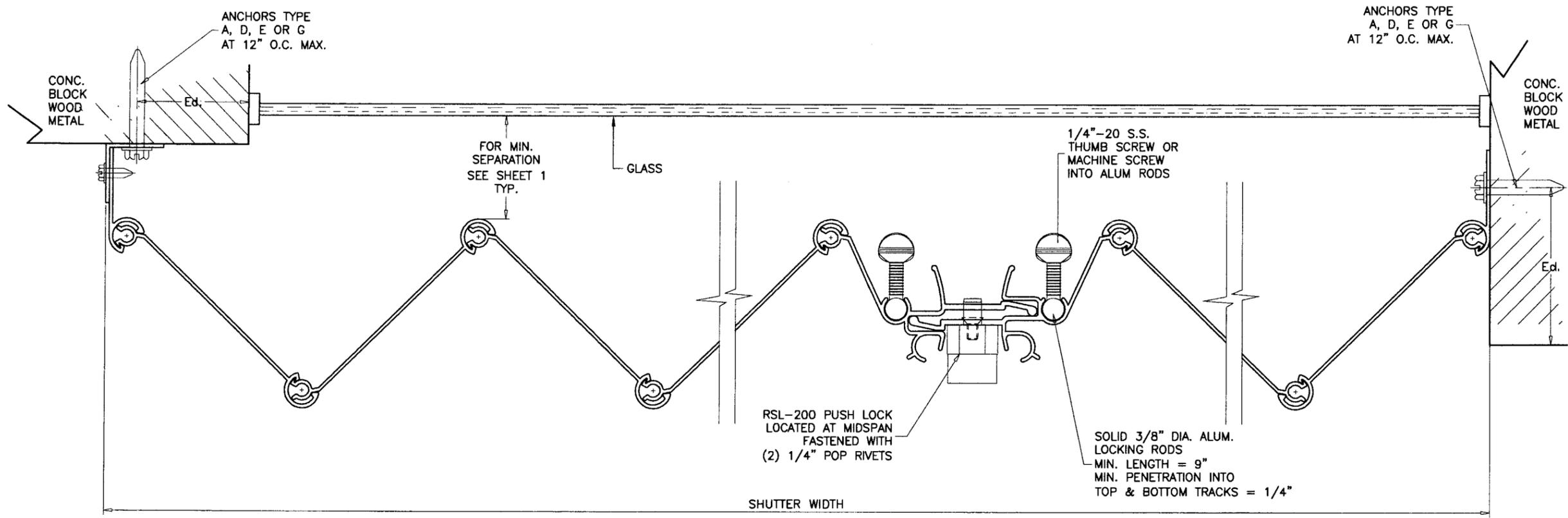
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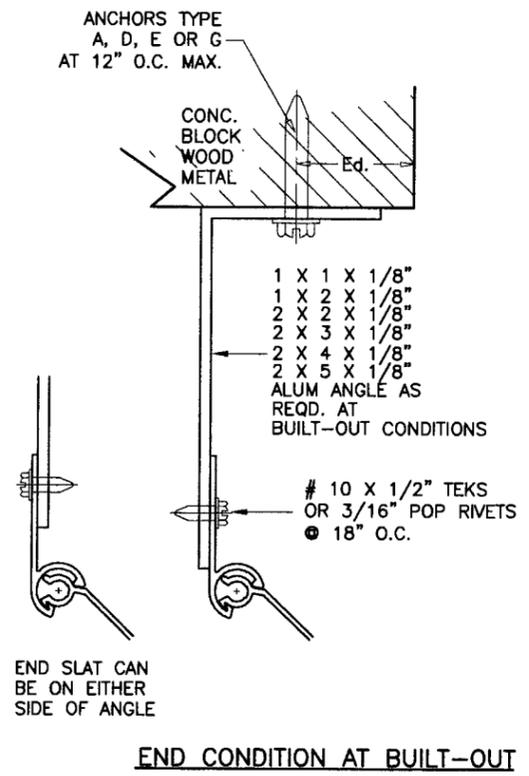
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B	08.07.07	REV. PER BCCO COMMENTS

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dr. by: HAMID
chk. by:

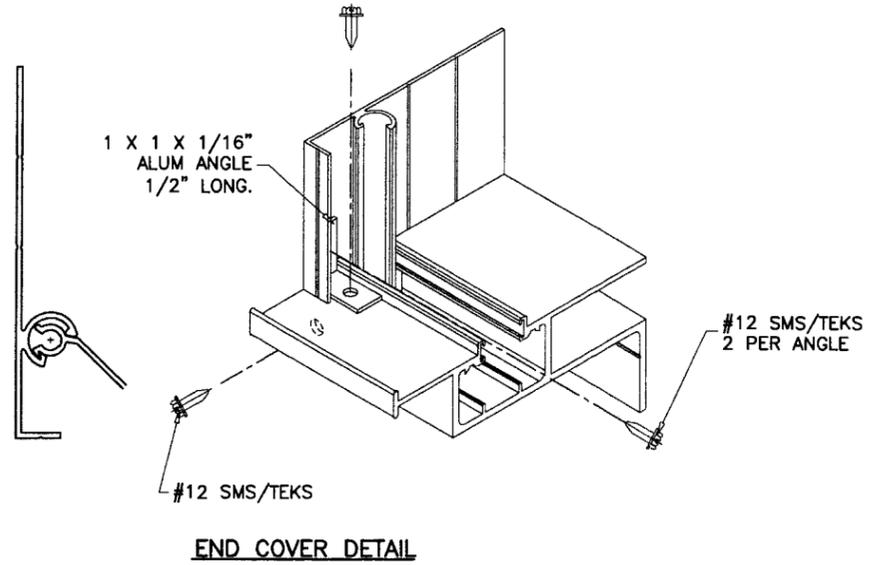
drawing no. **07-08**
sheet 4 of 7



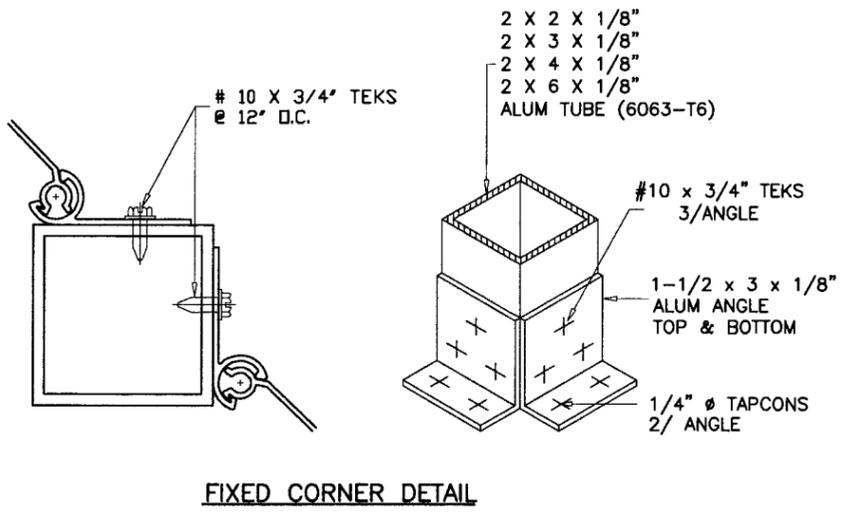
SECTION E-E



END CONDITION AT BUILT-OUT



END COVER DETAIL



FIXED CORNER DETAIL

Engr. DR. HUMAYOUN FAROOQ
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Miami Date Product Control
By Helmy A. M...
chk. by:

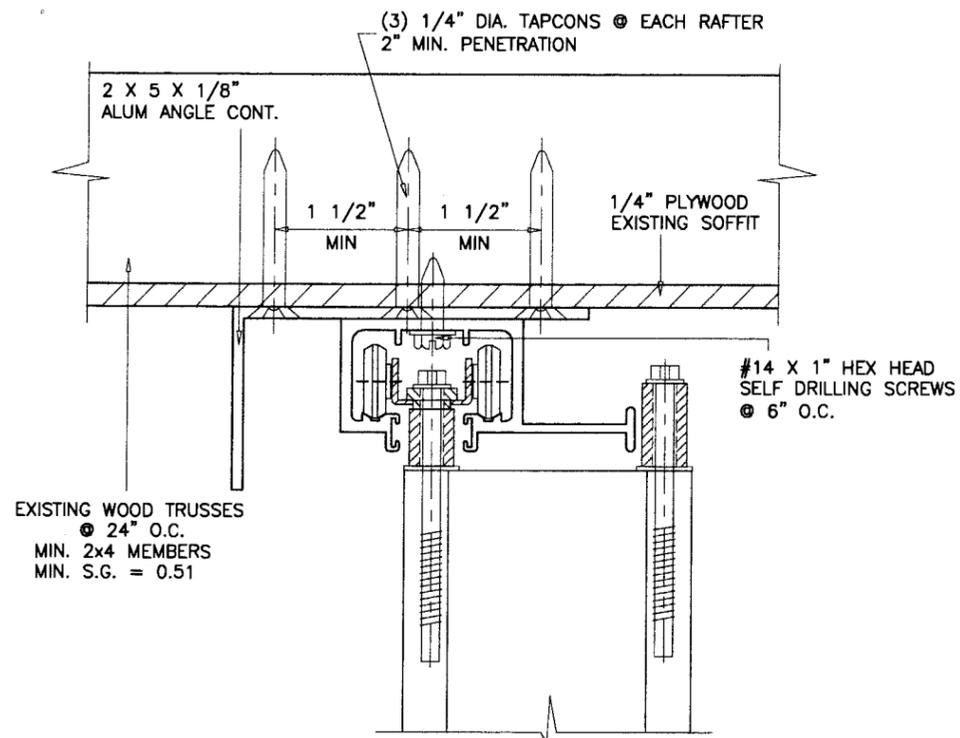
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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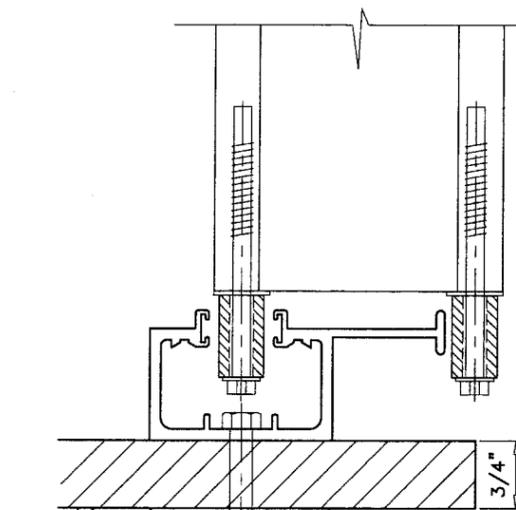
date: 04-05-07
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
07-08
sheet 5 of 7



HEADER CONNECTION TO WOOD TRUSSES

FOR SHUTTER HEIGHT OF 72" MAX. DESIGN LOAD = 93 PSF
 FOR SHUTTER HEIGHT OF 84" MAX. DESIGN LOAD = 80 PSF
 FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 70 PSF
 FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 62 PSF

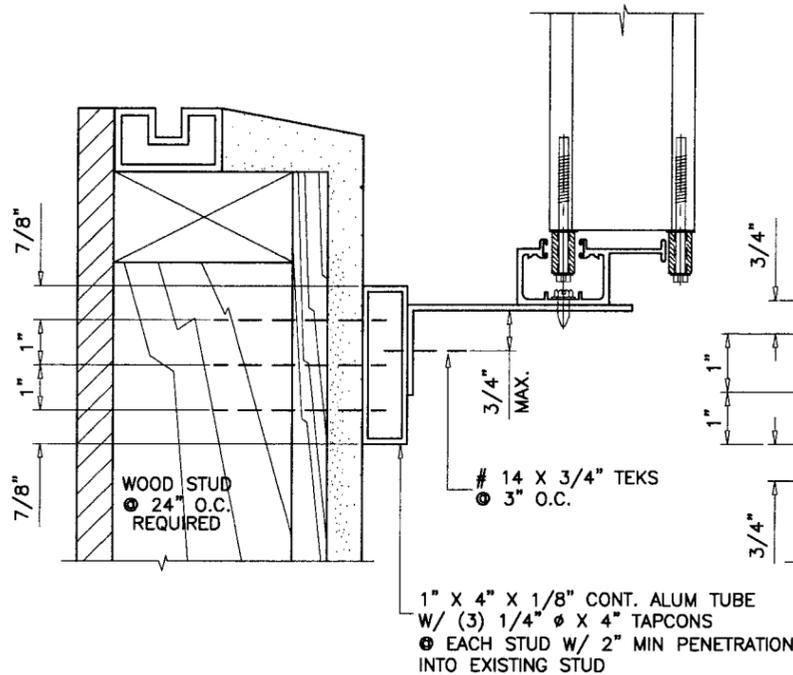


2 x 3 x 1/8"
 2 x 4 x 1/8"
 2 x 5 x 1/8" ALUM. ANGLES

1/4" THRU BOLT W/ WASHER & NUT
 AT 5-3/4" O.C. FOR LOADS UPTO 50 PSF
 AT 4-3/4" O.C. FOR LOADS UPTO 60 PSF
 AT 3-7/8" O.C. FOR LOADS UPTO 75 PSF
 AT 2-3/4" O.C. FOR LOADS UPTO 104 PSF

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

ANCHOR TYPE	ANCHOR SPACING INCHES							
	UPTO 50 PSF		UPTO 60 PSF		UPTO 75 PSF		UPTO 104 PSF	
	CONC.	BLK.	WOOD	METAL	CONC.	BLK.	WOOD	METAL
A	6	6	-	-	6	5.4	-	-
B	6	6	-	-	6	5.3	-	-
E	-	-	6	-	-	-	6	-
G	-	-	-	6	-	-	-	6



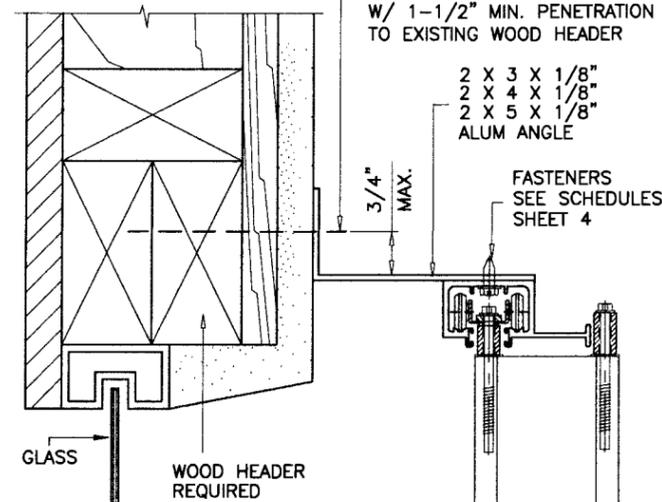
1" X 4" X 1/8" CONT. ALUM TUBE
 W/ (3) 1/4" Ø X 4" TAPCONS
 ● EACH STUD W/ 2" MIN PENETRATION INTO EXISTING STUD

FOR SHUTTER HEIGHT OF 84" MAX. DESIGN LOAD = 80 PSF
 FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 70 PSF
 FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 62 PSF
 FOR SHUTTER HEIGHT OF 120" MAX. DESIGN LOAD = 56 PSF

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

ABOVE DETAILS SHOWS CONNECTION OF 2X4 BUCK & 1X4 ALUM TUBE TO WOOD STUDS TO PROVIDE A CONTINUOUS SURFACE FOR SHUTTER INSTALLATION.

FOR INSTALLATION DETAILS OF HEADER/SILL TO CONTINUOUS WOOD MEMBERS SEE SHEETS 3 THRU 4.

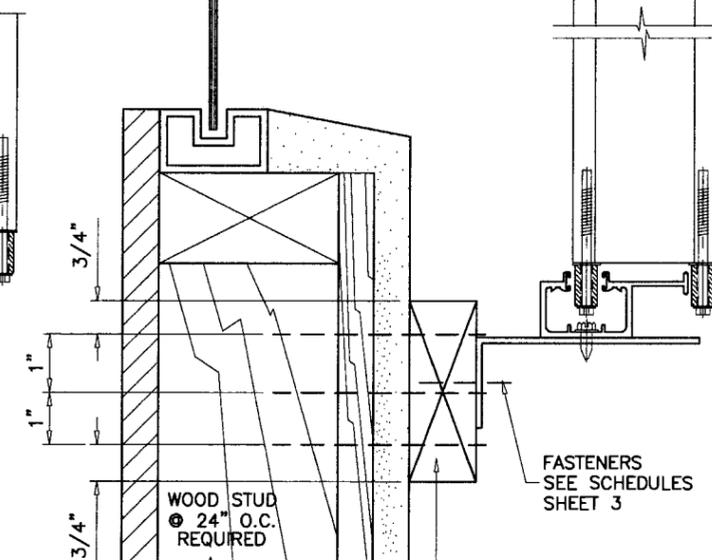


FASTENERS AS PER SCHEDULES W/ 1-1/2" MIN. PENETRATION TO EXISTING WOOD HEADER

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

FASTENERS SEE SCHEDULES SHEET 4

GLASS
 WOOD HEADER REQUIRED



FASTENERS SEE SCHEDULES SHEET 3

2" X 4" CONT.
 W/ (3) 1/4" Ø X 5" TAPCONS
 ● EACH STUD W/ 2" MIN PENETRATION INTO EXISTING STUD

Approved as complying with the Florida Building Code
 Date: 09/06/2007
 NOA# 07-0509.04
 Miami Dade Product Control
 Division:
 By: *Helmy A. Helmy*

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

AUG 08 2007

afc
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 ACCORDION/07-08CAD

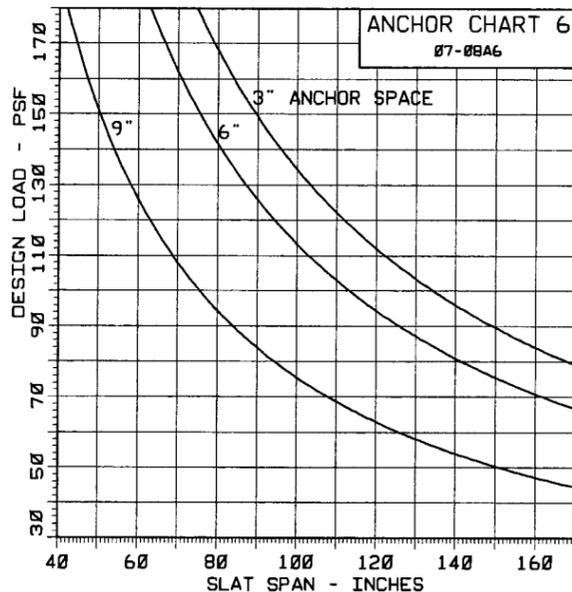
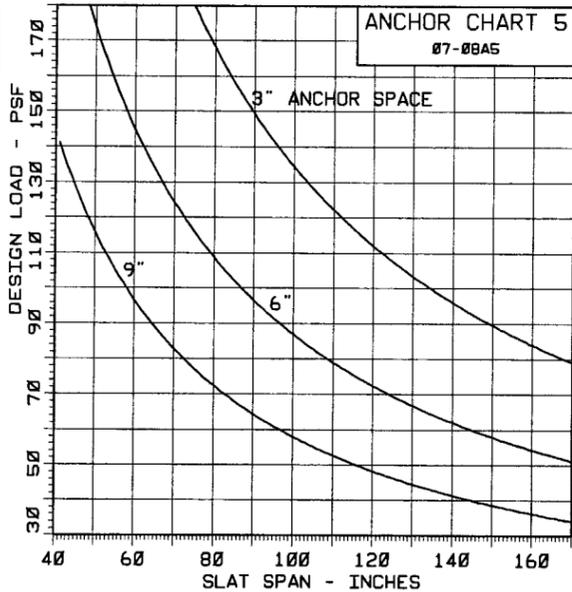
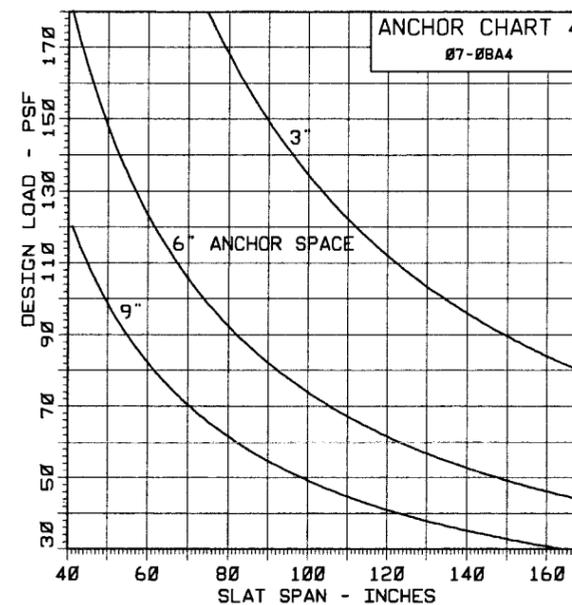
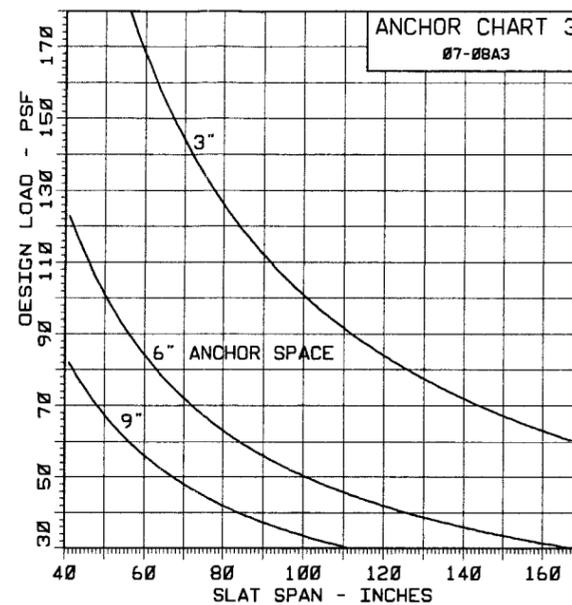
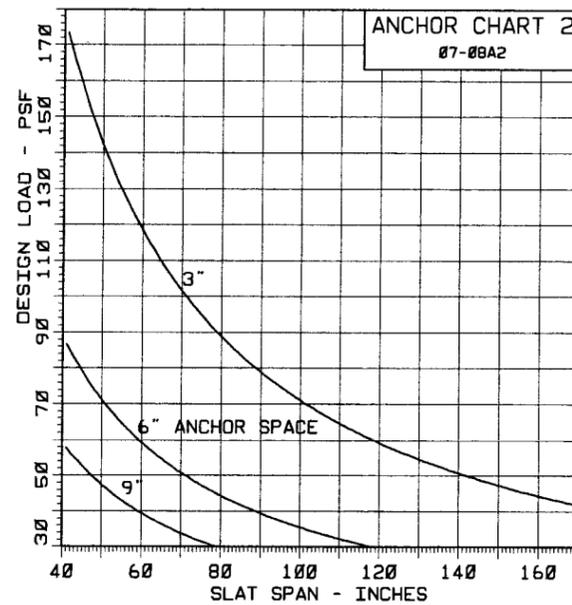
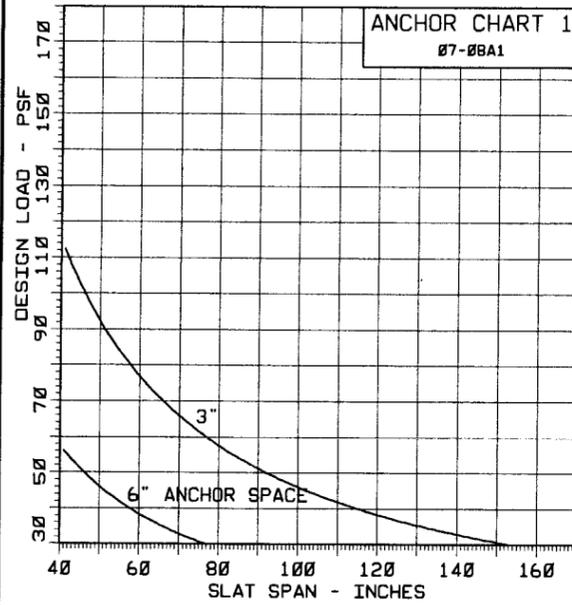
ROC-HEAD ACCORDION SHUTTER
CENTRAL ALUMINUM DISTRIBUTORS INC.
 332 MCGUIRE ROAD
 OCOEE, FL. 34761
 TEL. (407) 654-7522 FAX. (407) 654-7533

no.	date	by	description
A	06.01.07		NO CHANGE THIS SHEET
B	08.07.07		NO CHANGE THIS SHEET

date: 04-05-07
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
07-08

sheet 6 of 7



ALL TRACK ANCHORS AT 3 IN. FROM ENDS AND SPACED AS PER CHARTS

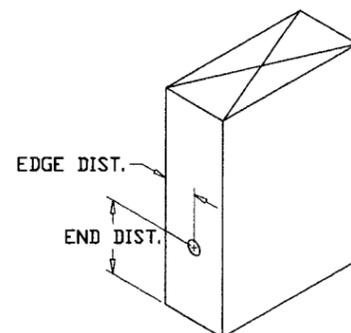
TYPICAL ANCHORS:

- 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.)

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 6 TO VERIFY ANCHOR REQUIREMENTS AND STRESS LIMITATIONS OF LOAD/SPAN COMBINATIONS FOR HEADER AND SILL.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
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no	date	by	description
A	06.01.07		ANCHOR CHARTS REV.
B	08.07.07		NO CHANGE THIS SHEET

date: 04-05-07
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
07-08
sheet 7 of 7