



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

Secure Hurricane Shutters, Inc.
16531 SW 18th Street
Miramar, Florida 33027

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: "WinDefense High Velocity" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Dwg. No. 07-14, titled "WinDefense High Velocity Aluminum Accordion Shutter", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated June 13, 2007, last revision #A dated March 28, 2008, signed and sealed by Humayoun Farooq, P.E. bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and expiration 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
05/08/2008

NOA No. 08-0206.04
Expiration Date: 05/08/2013
Approval Date: 05/08/2008

Secure Hurricane Shutters, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Dwg. No. 07-14, titled "WinDefense High Velocity Aluminum Accordion Shutter", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated June 13, 2007, last revision #A dated March 28, 2008, 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. 5206, dated August 23, 2007, signed and sealed by Carlos S. Rionda, P.E.*

C. CALCULATIONS

1. *Shutter analysis and Anchor calculation, dated February 04, 2008, Sheets S-1 through S-4, A-1 through A-29, AP-1 through AP-14, C-1 through C-18, M-1 through M-9, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E. on February 04, 2008.*
2. *Anchor calculation, dated April 03, 2008, 6 Sheets, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E. on April 03, 2008.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Certified Tensile Test Report prepared by Fenestration Testing Laboratory, Inc., Report No. 5206, dated August 23, 2007, signed and sealed by Carlos S. Rionda, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0206.04
Expiration Date: 05/08/2013
Approval Date: 05/08/2008

SLAT PERFORMANCE CHART

DESIGN LOADS PSF EXT./INT.	SLAT SPAN INCHES	MIN. GLASS SEPARATION REQUIRED	
		FOR INSTALLATIONS BELOW 30 FT. OF GRADE	FOR INSTALLATIONS ABOVE 30 FT. OF GRADE
60	156	3-1/4"	3-1/4"
65	150	3-1/4"	3-1/4"
70	144	2-7/8"	2-7/8"
75	138	2-7/8"	2-7/8"
80	132	2-7/8"	2-7/8"
85	126	2-7/8"	2-7/8"
90	120	2-7/8"	2-1/2"
95	118.8	2-7/8"	2-1/2"
100	117.5	2-7/8"	2-1/2"
105	116.3	2-7/8"	2-1/2"
110	115	2-7/8"	2-1/2"
115	113.8	2-7/8"	2-1/2"
120	112.5	2-7/8"	2-1/2"
125	111.3	2-7/8"	2-1/2"
130	110	2-7/8"	2-1/2"
135	108.8	2-7/8"	2-1/2"
140	107.5	2-7/8"	2-1/2"
145	106.3	2-7/8"	2-1/2"
150	105	2-7/8"	2-1/2"
155	101.8	2-7/8"	2-1/2"
160	98.6	2-7/8"	2"
165	95.4	2-7/8"	2"
170	92.1	2-7/8"	2"
175	88.9	2-7/8"	2"
180	85.7	2-7/8"	2"
185	82.5	2-7/8"	2"
190	79.3	2-7/8"	1-1/2"
195	76.1	2-7/8"	1-1/2"
200	72.9	2-7/8"	1-1/2"
205	69.6	2-7/8"	1-1/2"
210	66.4	2-7/8"	1-1/2"
215	63.2	2-7/8"	1-1/2"
220	60	2-1/4"	1-1/2"

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.

Approved as complying with the Florida Building Code
 Date 05/08/2008
 NOA# 08-0266-04
 Miami Dade Product Control
 Division
 By Heung A. Ma

PRODUCT MARKING

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

SECURE HURRICANE SHUTTERS, MIRAMAR, FL.
 'MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED'

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

APR 03 2008



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

WindDefense High Velocity Alum. Accordion Shutter
SECURE HURRICANE SHUTTERS
 16531 S.W. 18th STREET
 MIRAMAR, FL. 33027
 TEL. (954) 435-6111 FAX. (305) 503-6767

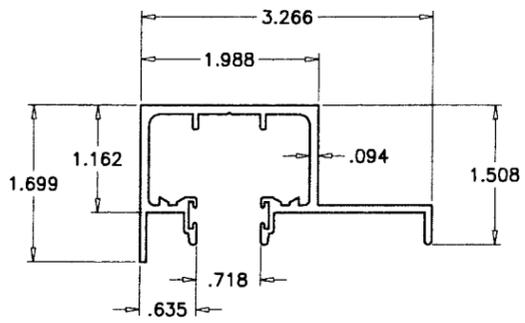
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A	03.28.08		

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 dr. by: HAMID
 chk. by:

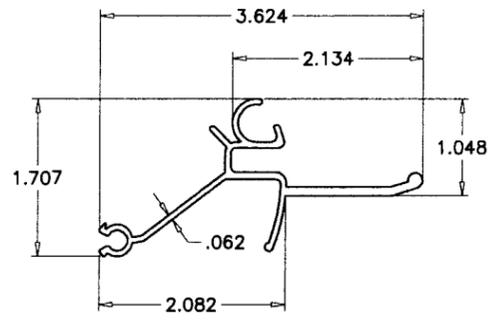
drawing no.
07-14

sheet 1 of 8

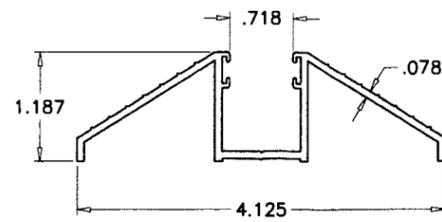
ACCORDION/07-14SHS



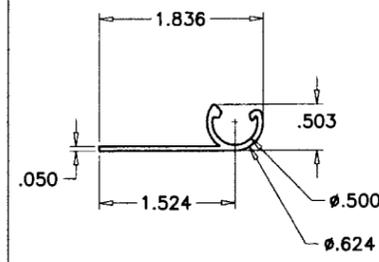
CEILING HEADER
6063-T6



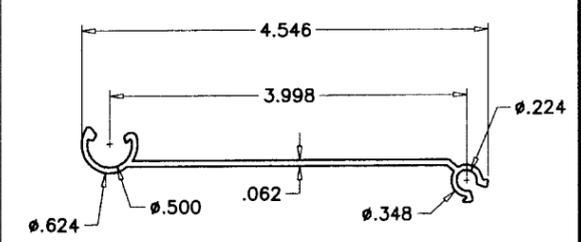
MALE LOCKING SLAT
6063-T6



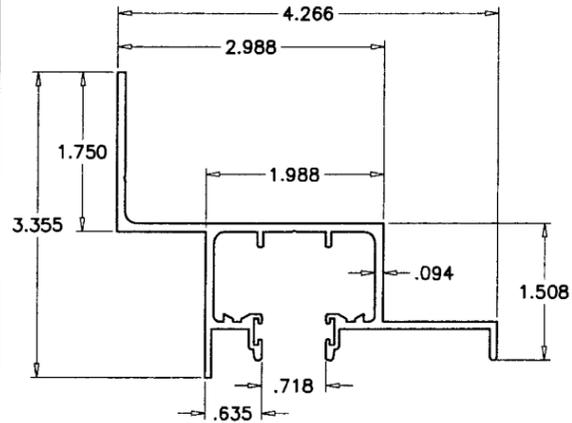
WALK OVER TRACK
6063-T6



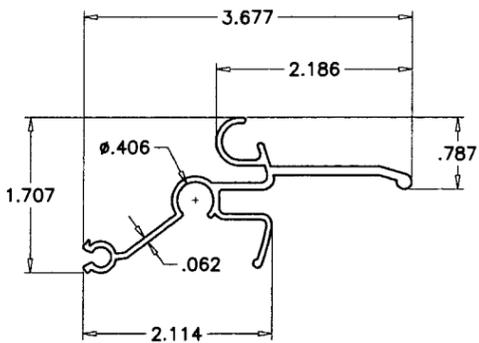
END SLAT
6063-T6



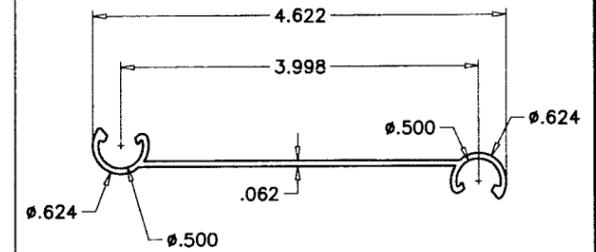
SLAT
6063-T6



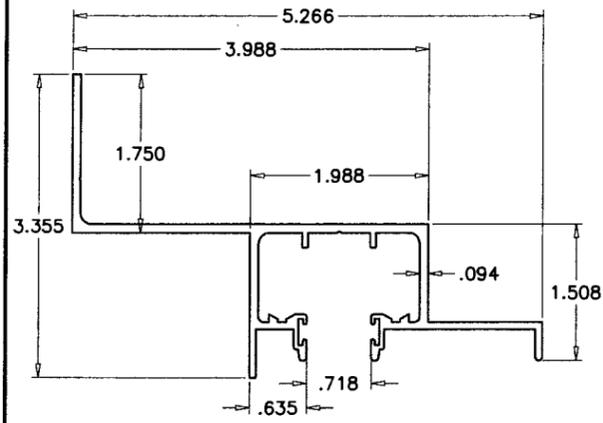
WALL HEADER
6063-T6



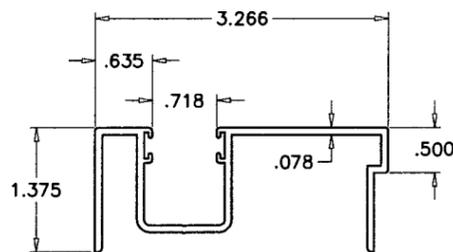
FEMALE LOCKING SLAT
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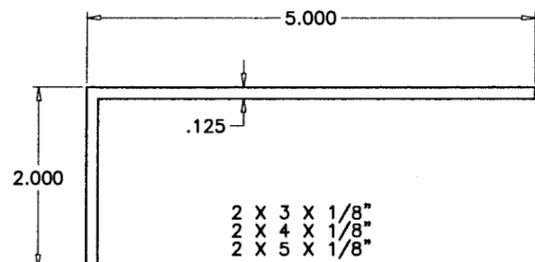
FLOATER SLAT
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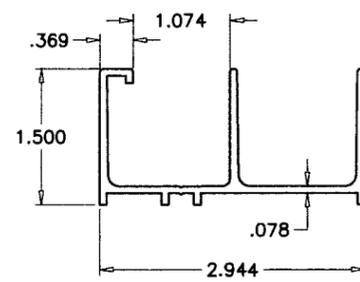
2" BUILT-OUT WALL HEADER
6063-T6



BOTTOM SILL TRACK
6063-T6



BUILT-OUT ANGLES
6063-T6



BOTTOM TRACK ADAPTER
6063-T6

Approved as complying with the
Florida Building Code.
Date: 05/08/2008
NOA# 08-0206-04
Miami Dade Product Control
Division
By: *Helmy A. Mub*

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 18557
C.A.N. 3538
[Signature]
APR 03 2008

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/07-14SHS

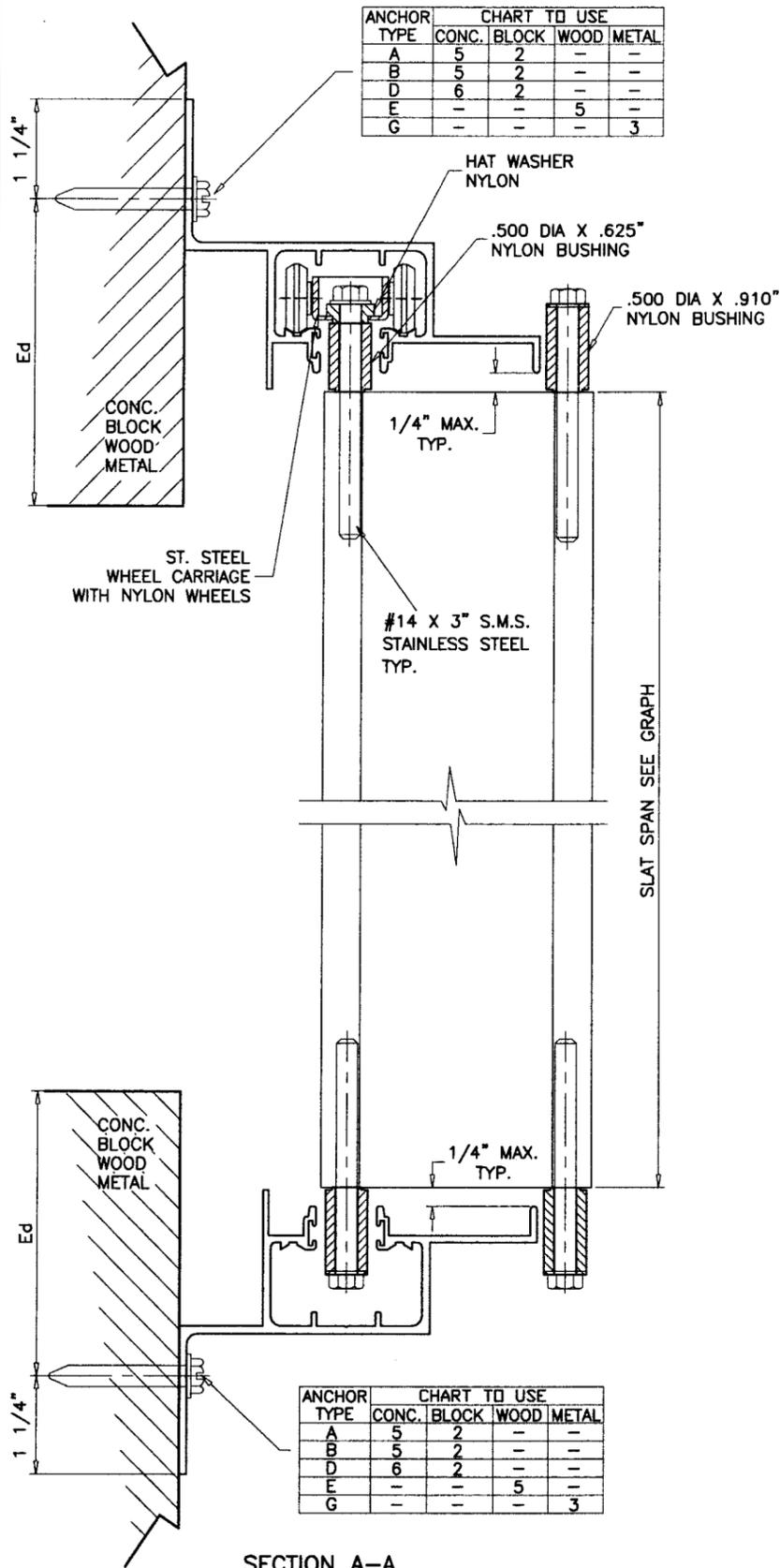
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TEL. (954) 435-6111 FAX. (305) 503-6767

no	date	description
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chk. by:

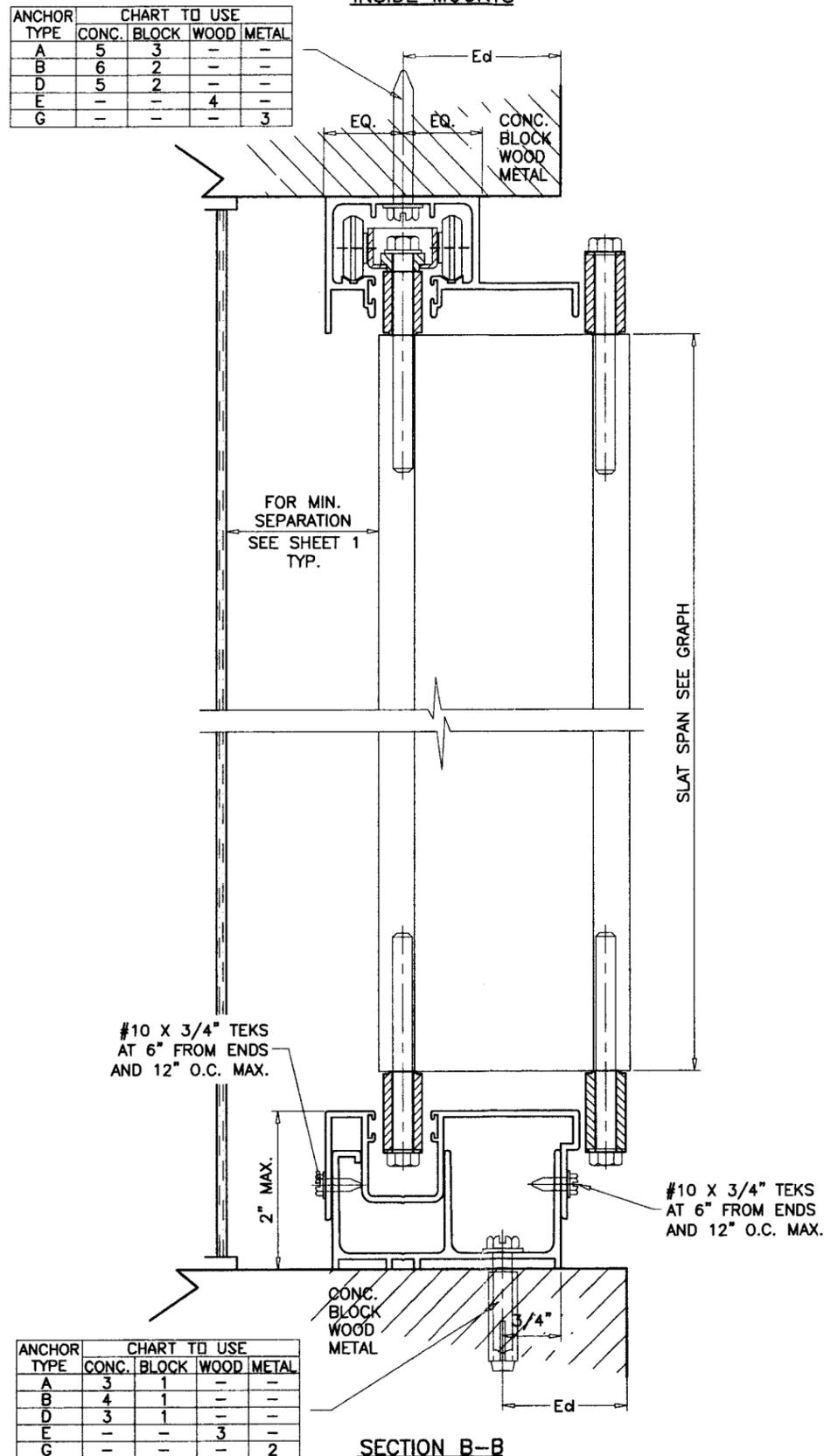
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07-14
sheet 2 of 8

WALL MOUNTS

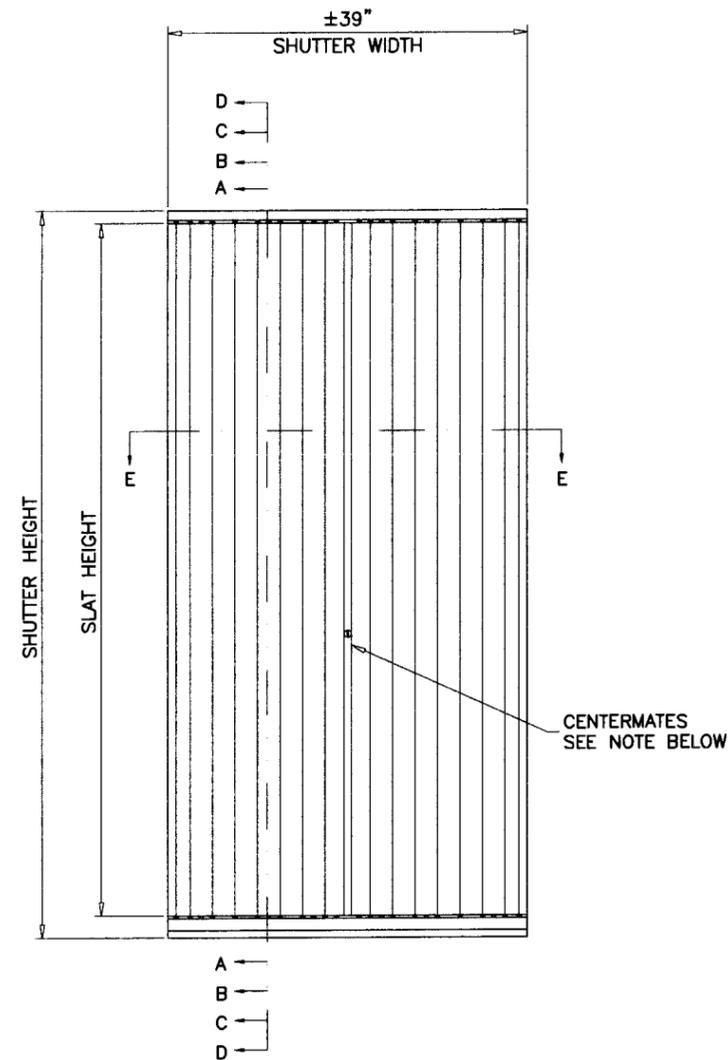


SECTION A-A

INSIDE MOUNTS



SECTION B-B



TYPICAL ELEVATION

Approved as complying with the Florida Building Code
 Date 05/08/2008
 NOAH 08-0206.04
 Miami Dade Product Control Division
 By *Heber A. Miller*

HEADER AND SILL DETAILS CAN BE USED IN ANY COMBINATIONS.

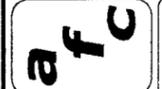
Engr. DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

APR 03 2008

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.)



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revisions:	no	date	by	description
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 chk. by:

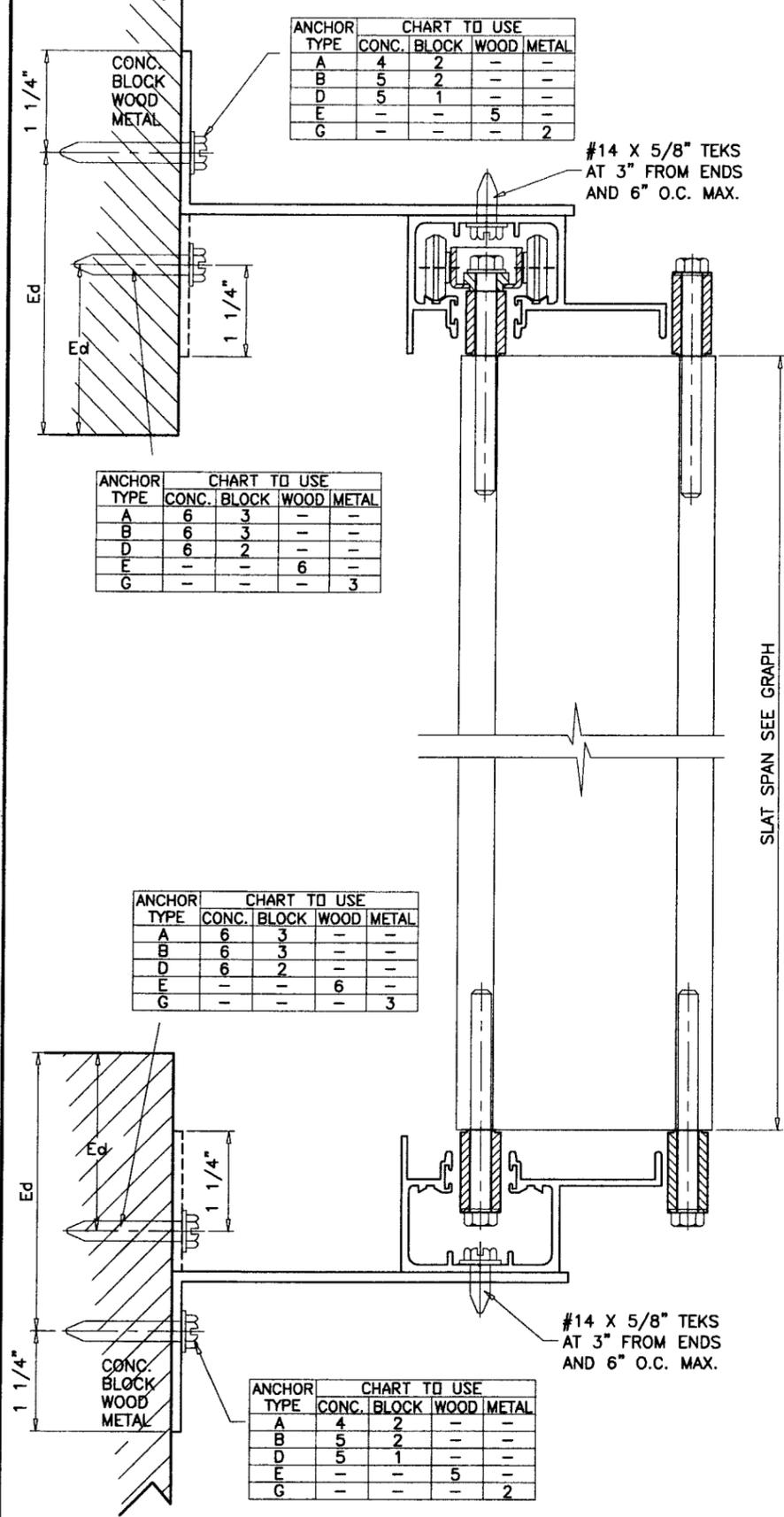
drawing no.
07-14

sheet 3 of 8

ACCORDION/07-14SHS

BUILT-OUT CONDITION

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

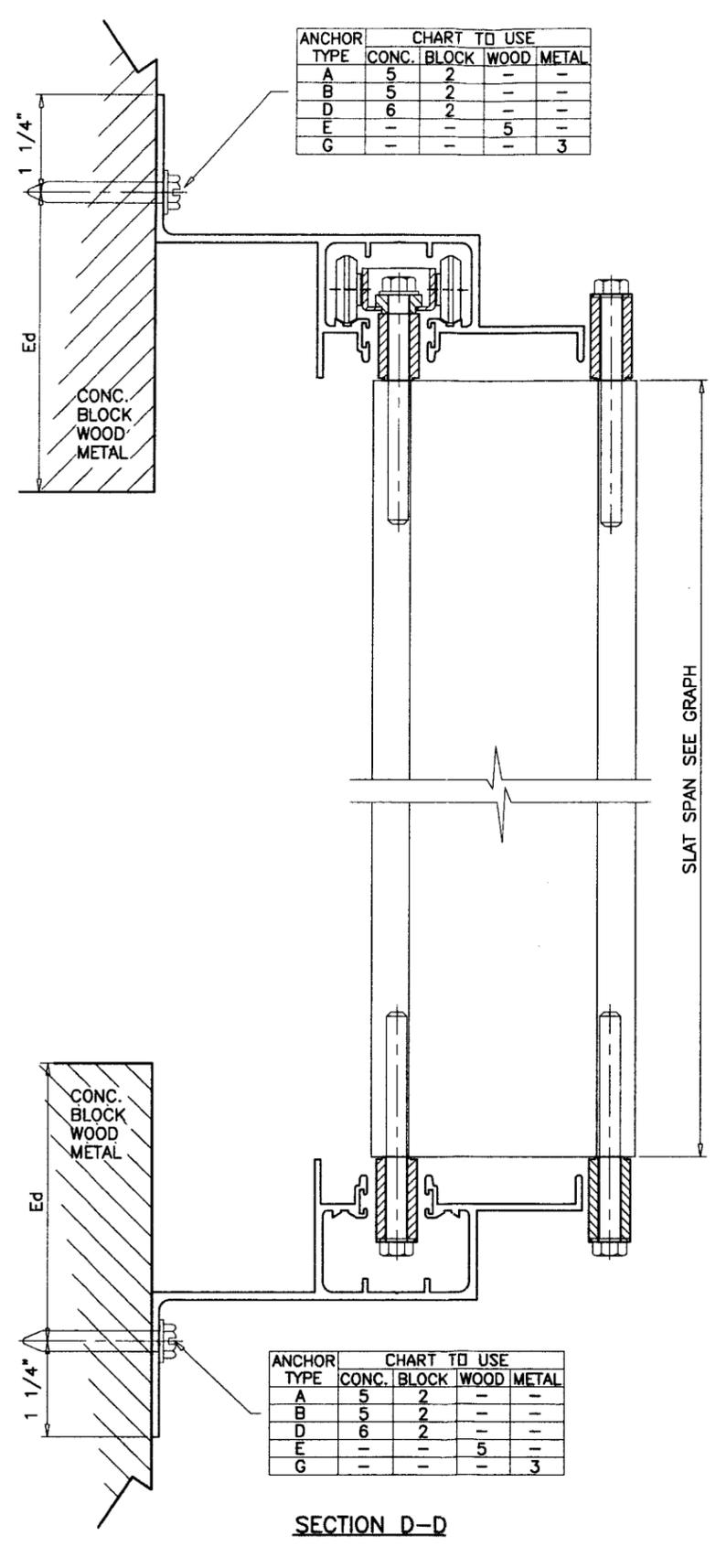
#14 X 5/8" TEKS AT 3" FROM ENDS AND 6" O.C. MAX.

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

SECTION C-C

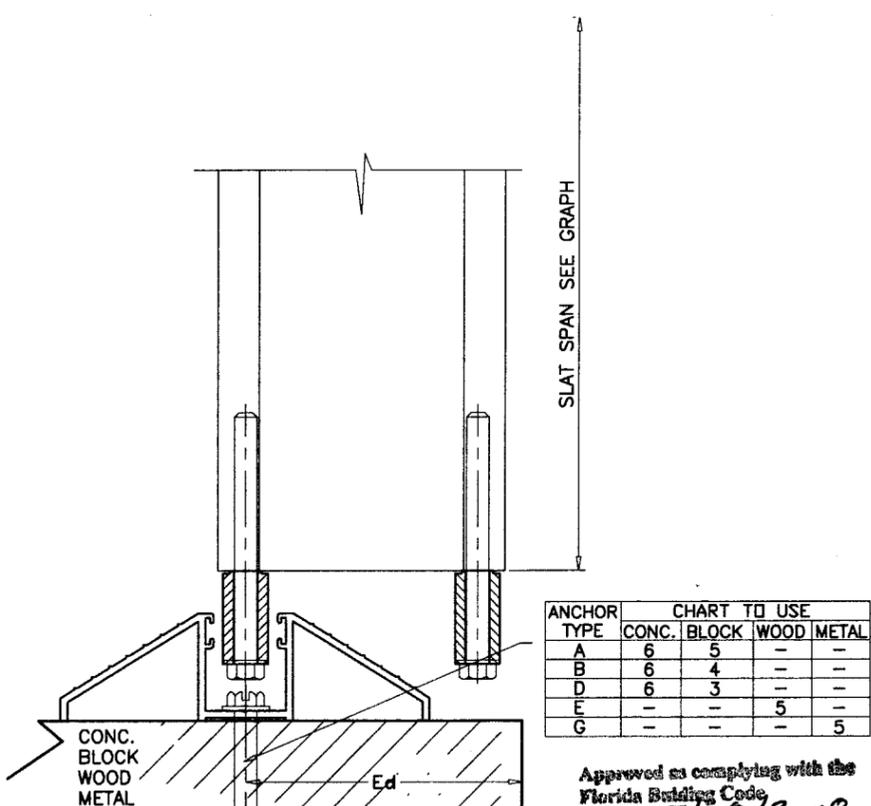


ANCHOR TYPE	CHART TO USE			
	CONC.	BLOCK	WOOD	METAL
A	5	2	-	-
B	5	2	-	-
D	6	2	-	-
E	-	-	5	-
G	-	-	-	3

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

SECTION D-D

HEADER AND SILL DETAILS CAN BE USED IN ANY COMBINATIONS.



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

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

Approved as complying with the Florida Building Code
Date: 05/08/2008
NOAE 08-0206-04
Miami Dade Product Control
Division
By: *Heung H. Han*

APR 03 2008

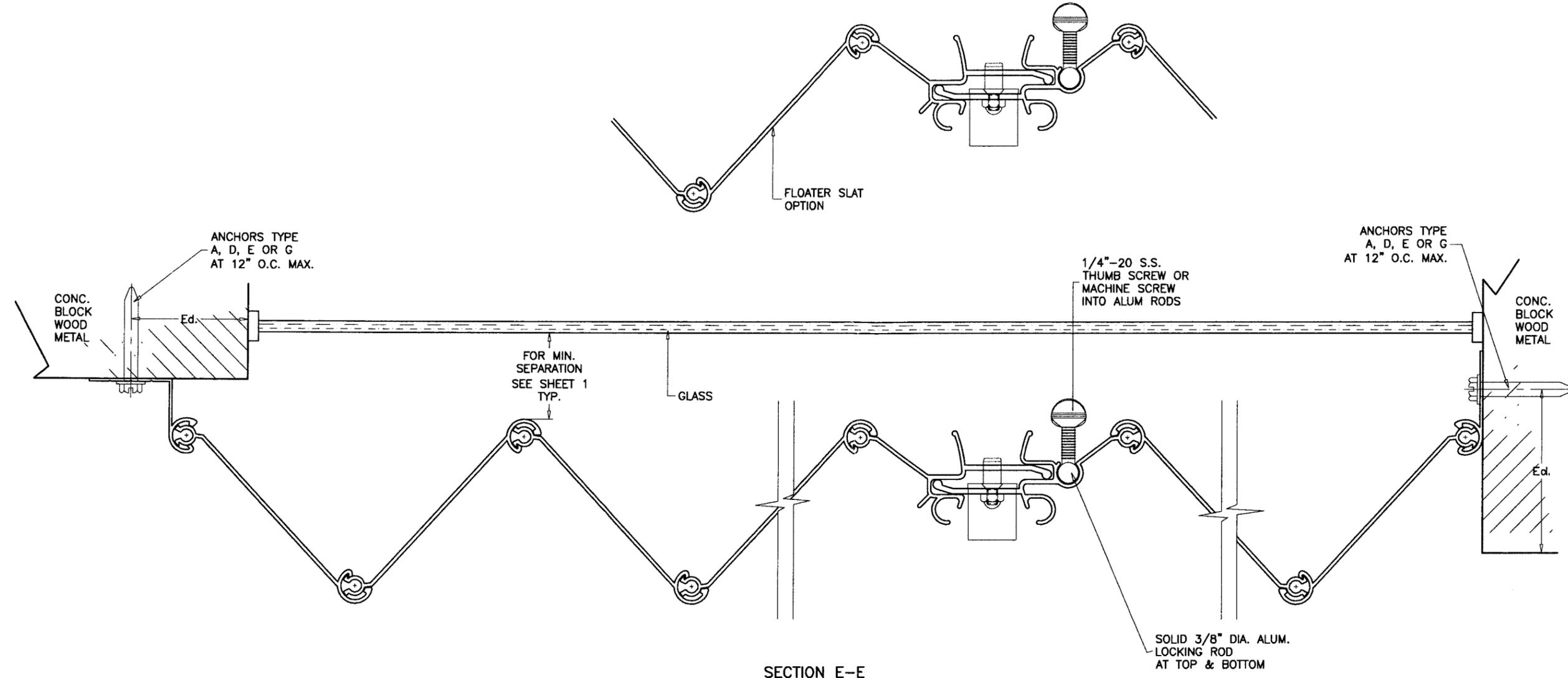
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ACCORDION/07-14SHS

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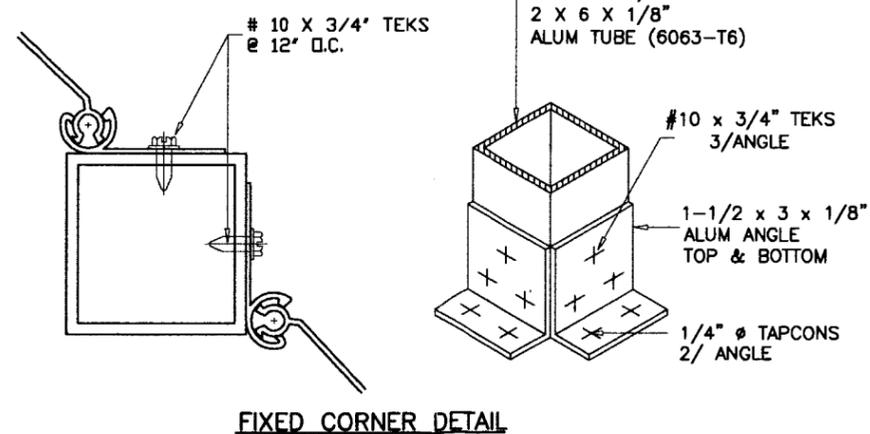
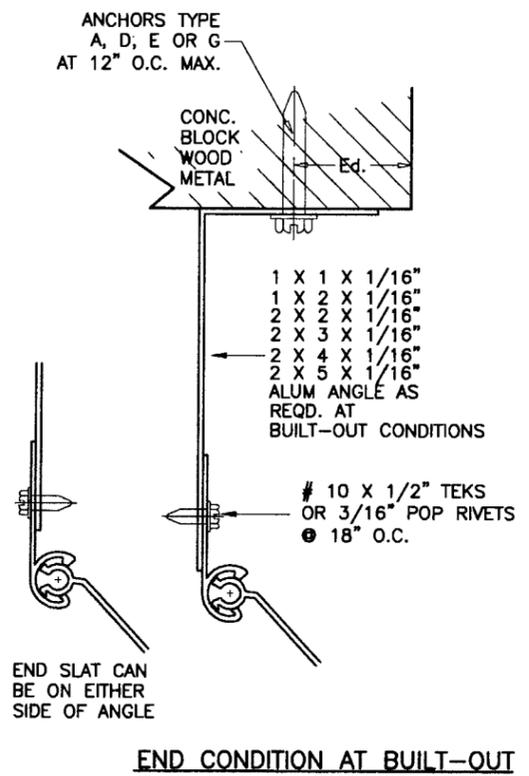
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A	03.28.08			

date: 06-13-07
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
07-14
sheet 4 of 8



SECTION E-E



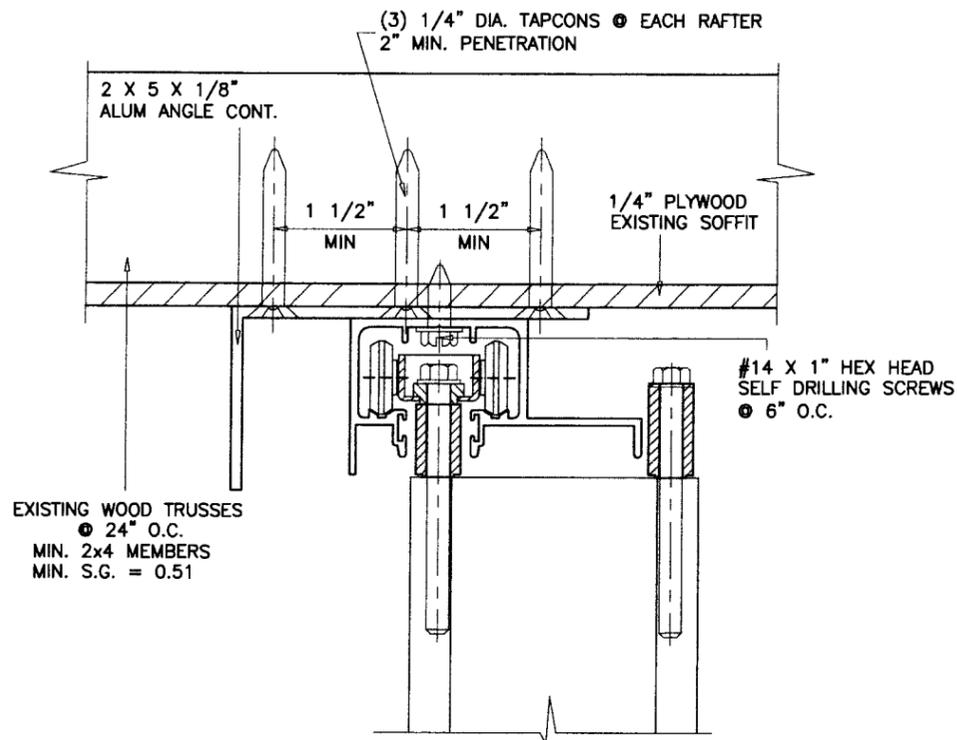
Approved as complying with the Florida Building Code
 Date: 05/08/2008
 NOAH 08-0206-04
 Miami Dade Product Control
 Division: *Helmy A. Helmy*

Engr: DR. HUMAYUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3536

APR 03 2008

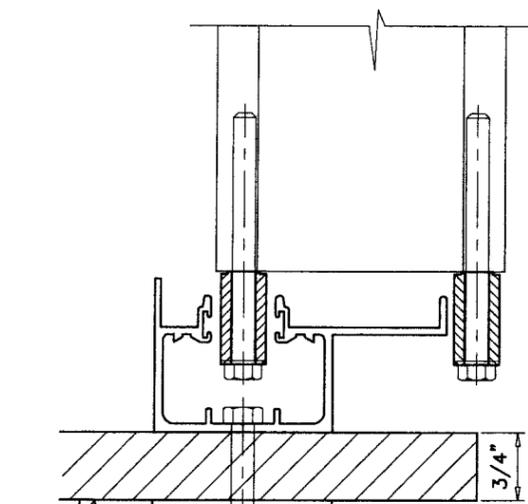
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drawing no. 07-14			
sheet 5 of 8			



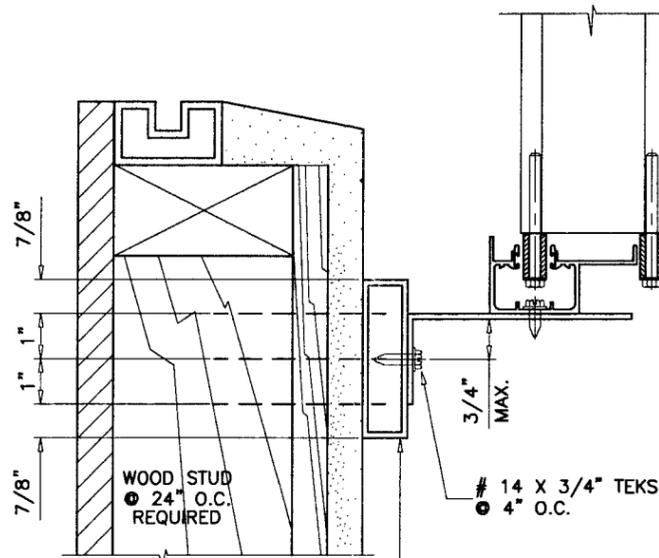
HEADER CONNECTION TO WOOD TRUSSES

FOR SHUTTER HEIGHT OF 72" MAX. DESIGN LOAD = 94 PSF
 FOR SHUTTER HEIGHT OF 84" MAX. DESIGN LOAD = 81 PSF
 FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 71 PSF
 FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 63 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	5	-	-	6	4.1	-	-
B	6	4.9	-	-	6	4	-	-
E	-	-	6	-	-	6	-	-
G	-	-	-	6	-	-	5.7	-
								4.6
								4.6
								4.6
								3.3



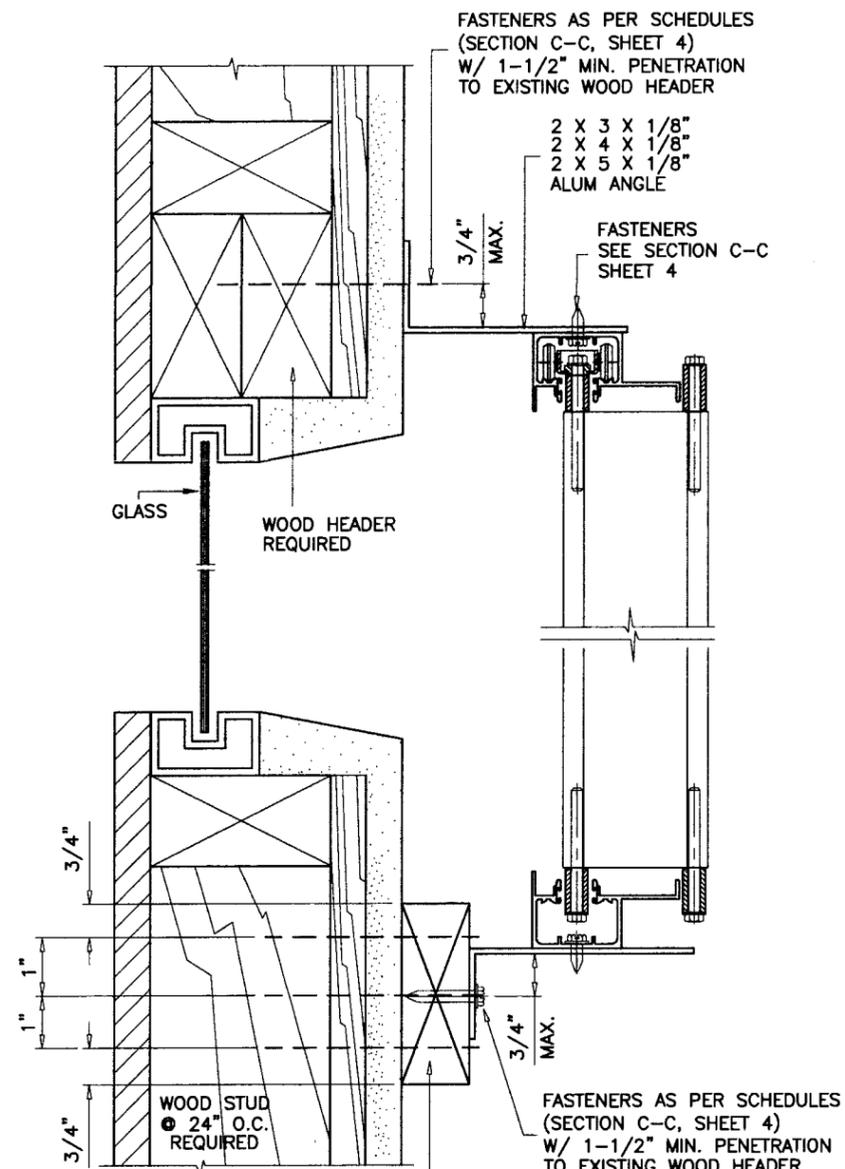
1" X 4" X 1/8" CONT. ALUM TUBE
 W/ (3) 1/4" Ø X 4" TAPCONS
 ● EACH STUD W/ 2" MIN PENETRATION
 INTO EXISTING STUD

FOR SHUTTER HEIGHT OF 84" MAX. DESIGN LOAD = 81 PSF
 FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 71 PSF
 FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 63 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
 (SECTION C-C, SHEET 4)
 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 SECTION C-C
 SHEET 4

GLASS
 WOOD HEADER
 REQUIRED

FASTENERS AS PER SCHEDULES
 (SECTION C-C, SHEET 4)
 W/ 1-1/2" MIN. PENETRATION
 TO EXISTING WOOD HEADER

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: 05/08/2008
 NOA# 08-0206-04
 Miami Dade Product Control
 Division
 By: *[Signature]*

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

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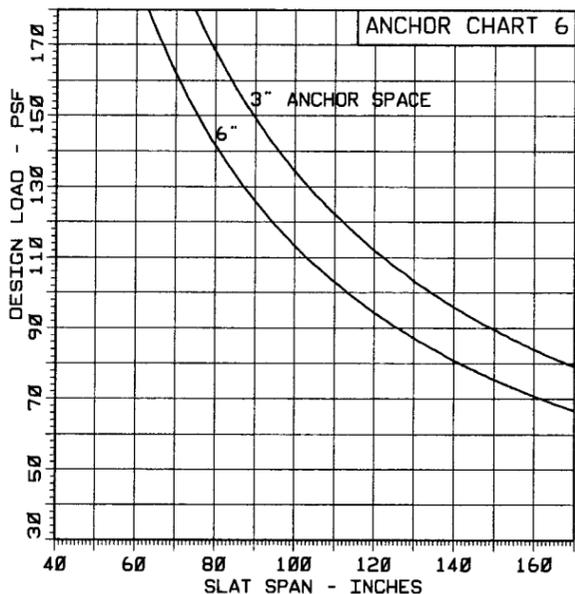
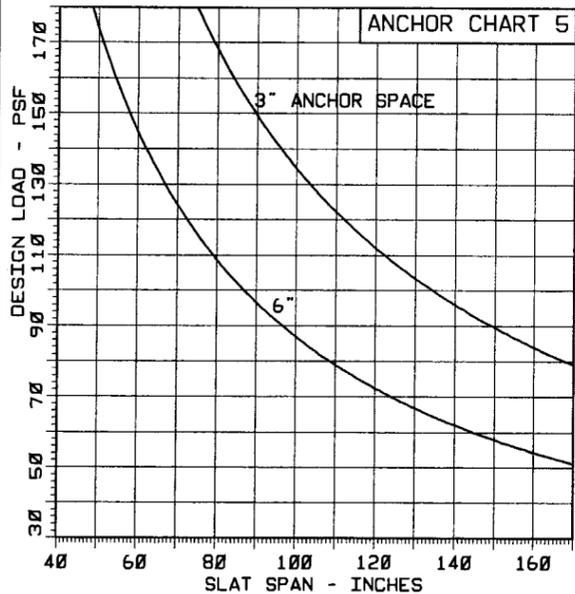
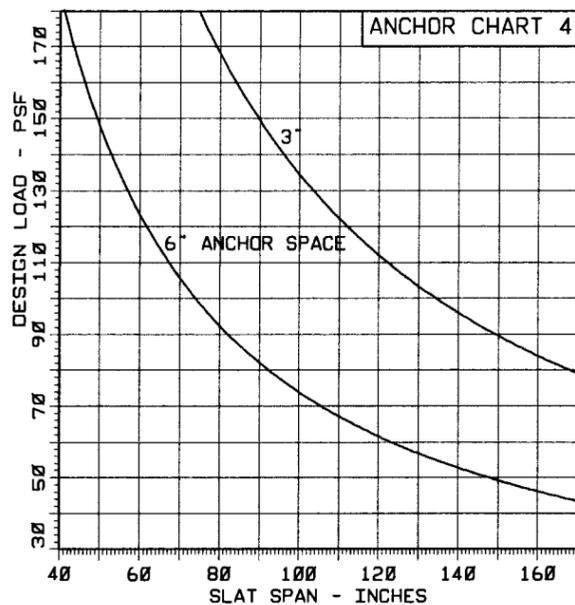
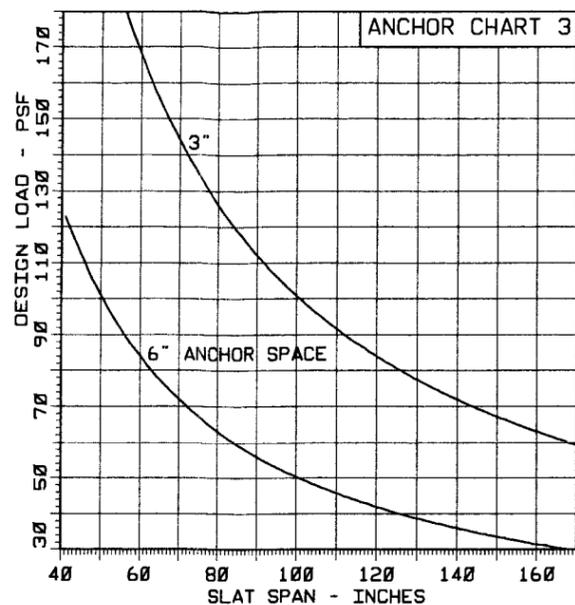
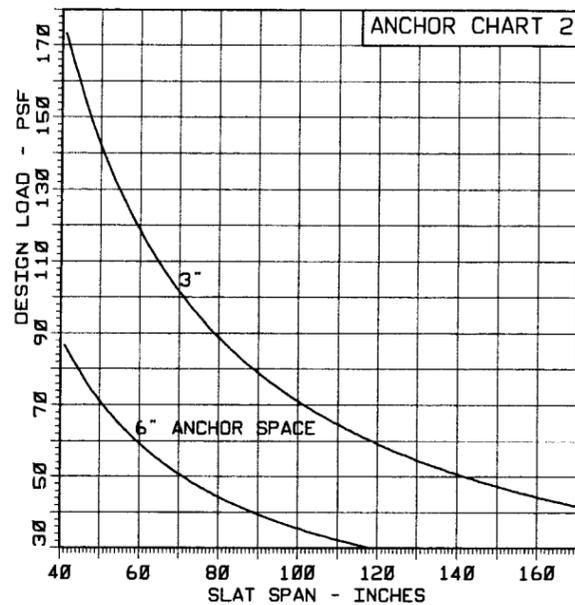
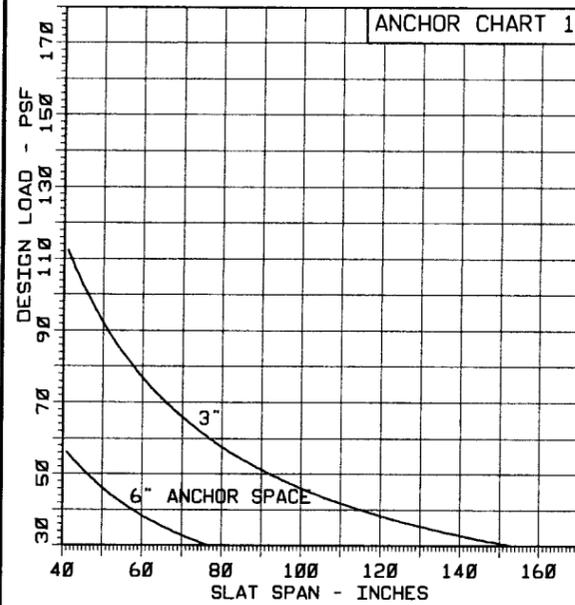
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 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL: (305) 264-8100 FAX: (305) 262-6978
 ACCORDION/07-14SHS

WinDefense High Velocity Alum. Accordion Shutter
SECURE HURRICANE SHUTTERS
 16531 S.W. 18th STREET
 MIRAMAR, FL. 33027
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revisions:	no	date	by	description
A	03.28.08			REV. PER BCCO COMMENTS

date: 06-13-07
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
07-14
 sheet 6 of 8



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.)

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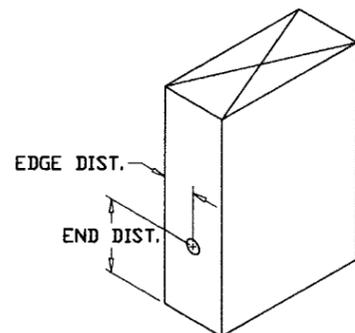
FASTENER SPACING IN MASONRY/CONCRETE

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.

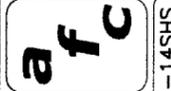
TYPICAL EDGE DISTANCE IN WOOD = 3/4"
TYPICAL END DISTANCE IN WOOD = 1"
NO REDUCTION FACTOR IS REQUIRED



USE CHARTS 1 THRU 6 TO VERIFY ANCHOR REQUIREMENTS AND STRESS LIMITATIONS OF LOAD/SPAN COMBINATIONS FOR HEADER AND SILL.

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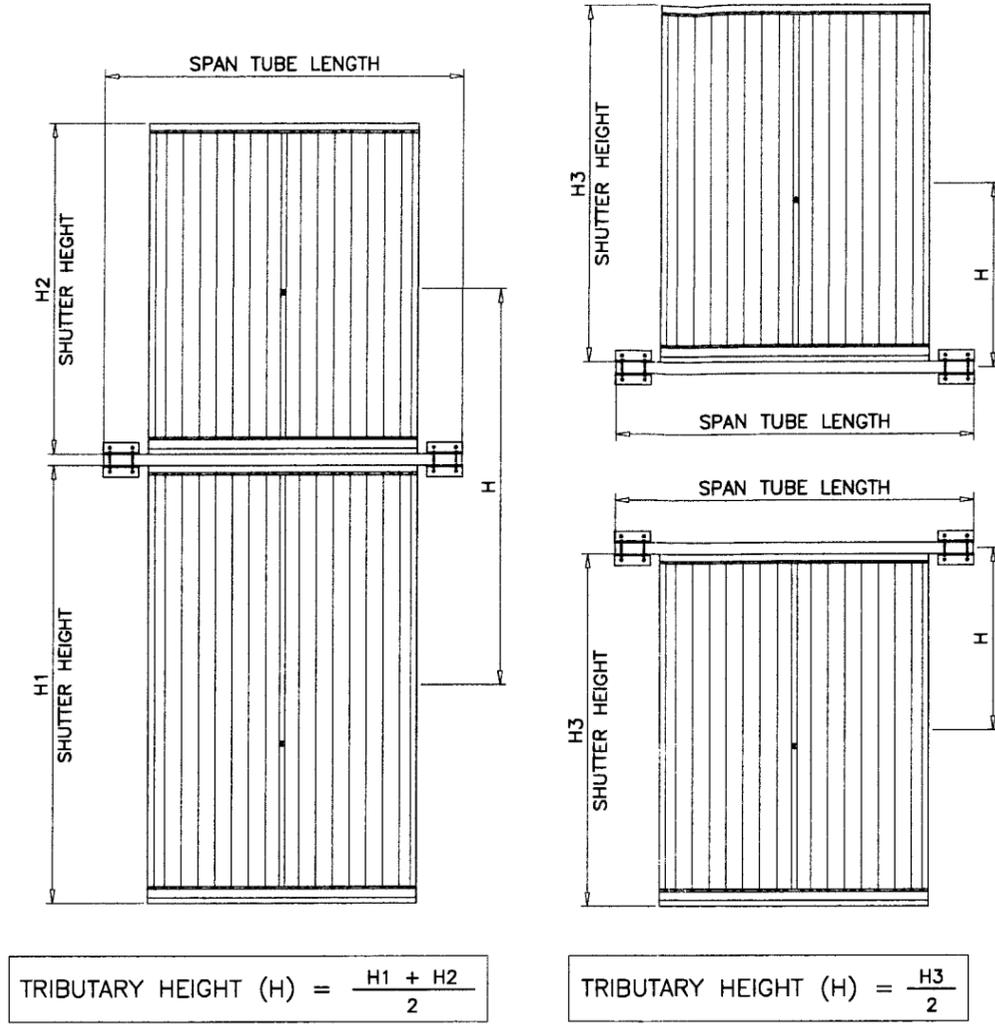
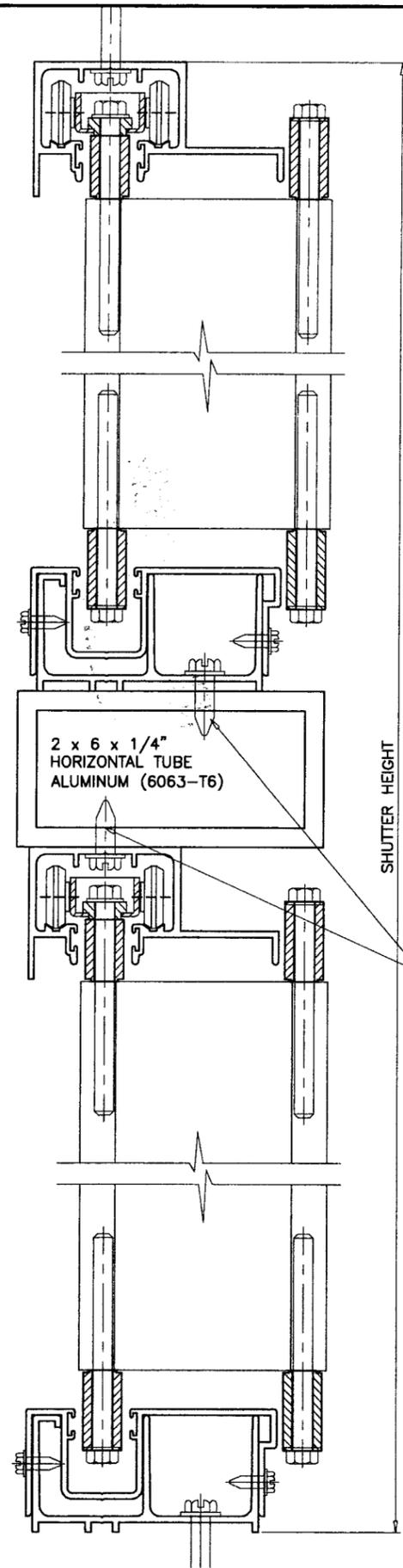
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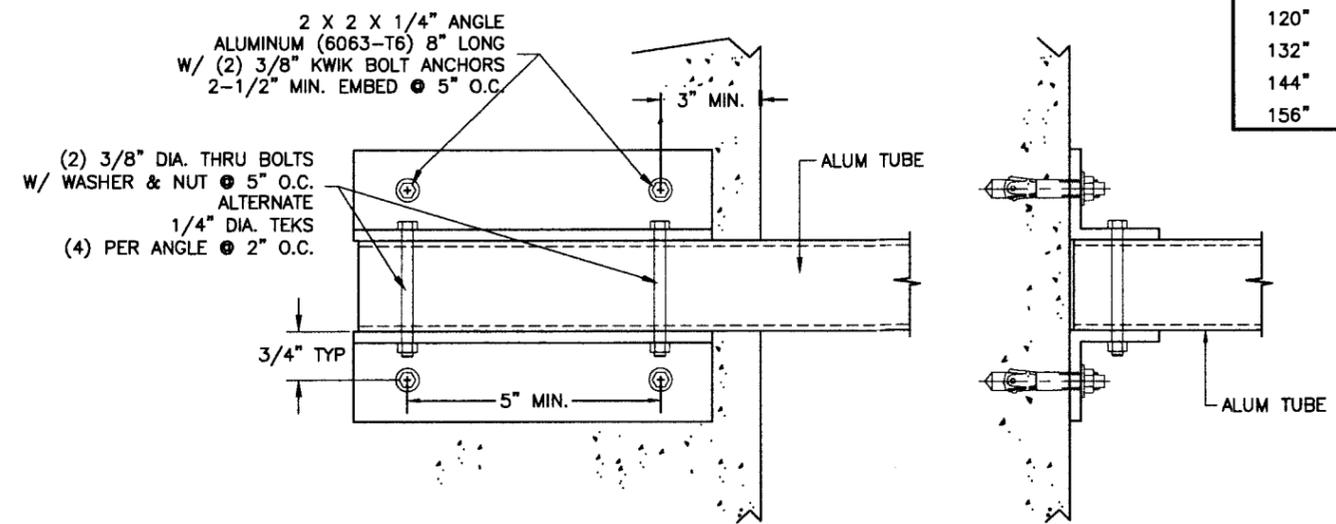
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

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07-14
sheet 7 of 8



TYPICAL ELEVATIONS



TUBE CONNECTION TO WALL
SCALE: 1/4"=1"

DESIGN LOAD CAPACITY - PSF		
TRIBUTARY HEIGHT (H)	SPAN TUBE LENGTH	2 X 6 X 1/4" ALUM TUBE
48"	102"	100.0
60"		100.0
72"		100.0
84"		100.0
96"		100.0
108"		100.0
120"		100.0
132"		100.0
144"		100.0
156"		100.0
48"	108"	100.0
60"		100.0
72"		100.0
84"		100.0
96"		100.0
108"		100.0
120"		100.0
132"		100.0
144"		98.0
156"		90.4
48"	114"	100.0
60"		100.0
72"		100.0
84"		100.0
96"		100.0
108"		100.0
120"		100.0
132"		95.3
144"		87.4
156"		80.6
48"	120"	100.0
60"		100.0
72"		100.0
84"		100.0
96"		100.0
108"		100.0
120"		90.1
132"		81.9
144"		75.1
156"		69.3

DESIGN LOAD CAPACITY - PSF		
TRIBUTARY HEIGHT (H)	SPAN TUBE LENGTH	2 X 6 X 1/4" ALUM TUBE
48"	126"	100.0
60"		100.0
72"		100.0
84"		100.0
96"		97.3
108"		86.5
120"		77.8
132"		70.7
144"		64.9
156"		59.9
48"	132"	100.0
60"		100.0
72"		100.0
84"		96.7
96"		84.6
108"		75.2
120"		67.7
132"		61.5
144"		56.4
156"		52.1
48"	138"	100.0
60"		100.0
72"		98.7
84"		84.6
96"		74.0
108"		65.8
120"		59.2
132"		53.9
144"		49.4
156"		45.6
48"	144"	100.0
60"		100.0
72"		86.9
84"		74.5
96"		65.2
108"		57.9
120"		52.1
132"		47.4
144"		43.4
156"		40.1

NOTES:

- USE CHART ON THIS SHEET FOR HORIZONTAL SPAN BEAM CAPACITY.
- FOR ACCORDION SHUTTER CAPACITY SEE SHEET 1 OF 8.
- LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

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By: *Helmy H. Mada*

APR 03 2008

FOR HEAD & SILL COMBINATIONS
SEE TYPICAL DETAILS AND SCHEDULES

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