



**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)

**E.S. Windows
5220 NW 72nd Ave. Bay #4
Miami, FL 33166**

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 3000 Aluminum Sliding Glass Door -LMI

APPROVAL DOCUMENT: Drawing No. **W03-100**, titled "Series-3000 Aluminum Sliding Patio Door (LMI), sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, dated 11/08/03, 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 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 and evidence page E-1 and E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**

Handwritten signature and date: 2/25/2004



**NOA No 03-1208.02
Expiration Date: March 18, 2009
Approval Date: March 18, 2004
Page 1**

E.S. Windows

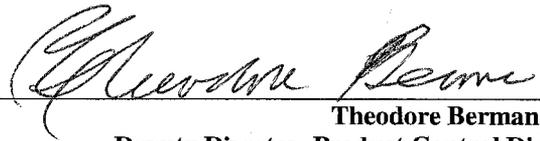
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
Drawing No. **W03-100**, titled "Series-3000 Aluminum Sliding Patio Door (LMI), sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, dated 11/08/03, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of an Aluminum Sliding Glass Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3908**, dated 10/09/03, signed and sealed by Joseph Chan, P.E.
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of an Aluminum Sliding Glass Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3910**, dated 09/30/03, signed and sealed by Joseph Chan, P.E.
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of an Aluminum Sliding Glass Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3909**, dated 09/26/03, signed and sealed by Joseph Chan, P.E.



Theodore Berman, P.E.
Deputy Director, Product Control Division

NOA No 03-1208.02

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C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by Al-Farooq Corporation, dated 11/07/03, signed and sealed by Humayoun Farooq, P.E.
2. Revised Anchor Calculations, and structural analysis, prepared by Al-Farooq Corporation, dated 11/07/03, signed and sealed by Humayoun Farooq, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

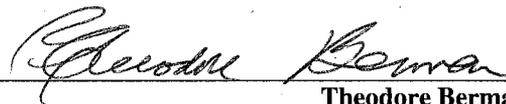
1. Notice of Acceptance No. **01-1204.01** issued to "E.I. DuPont DeNemours" for "Sentry Glass ® Plus" dated 01/17/02, expiring on 01/14/07.
2. Notice of Acceptance No. **00-1212.04** issued to "E.I. DuPont DeNemours" for "Dupont Butacite ® PVB" dated 02/15/01, expiring on 12/11/05.

F. STATEMENTS

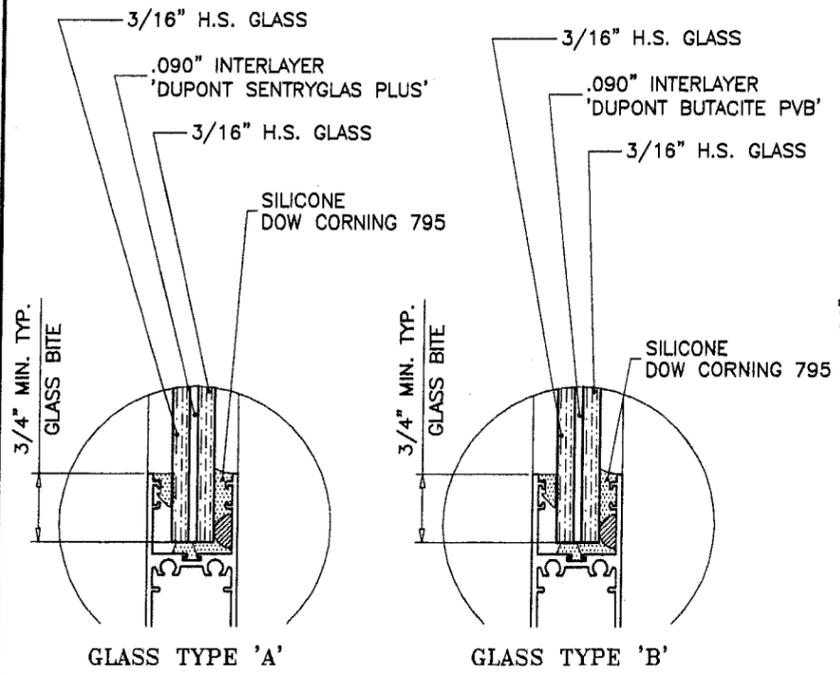
1. Statement letter of compliance and of no financial interest, dated 11/07/03, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interests, date 12/16/03, signed and sealed by Humayoun Farooq, P.E.

G. OTHER

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code.



Theodore Berman, P.E.
Deputy Director, Product Control Division
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DOORS GLAZED WITH LAMINATED GLASS RATED FOR LARGE MISSILE IMPACT AND REQUIRE NO SHUTTERS.

SERIES-3000 ALUM SLIDING GLASS DOOR

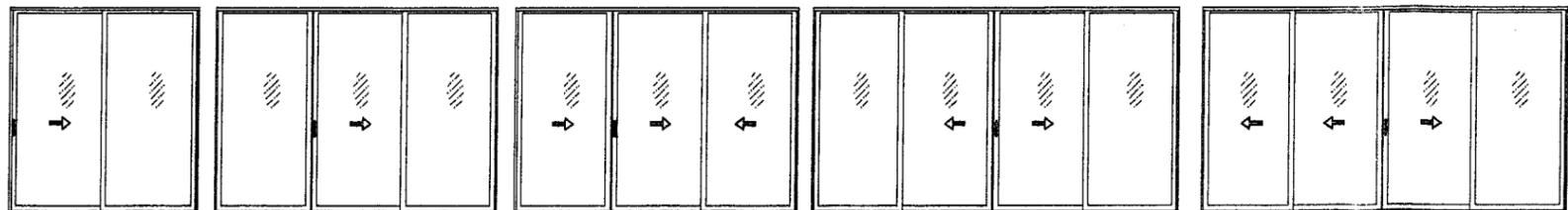
DESIGN LOAD RATING FOR DOORS TO BE AS PER CHART SHOWN.

THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.



XO (SHOWN)
OX
XX

OXO (SHOWN)
XXX

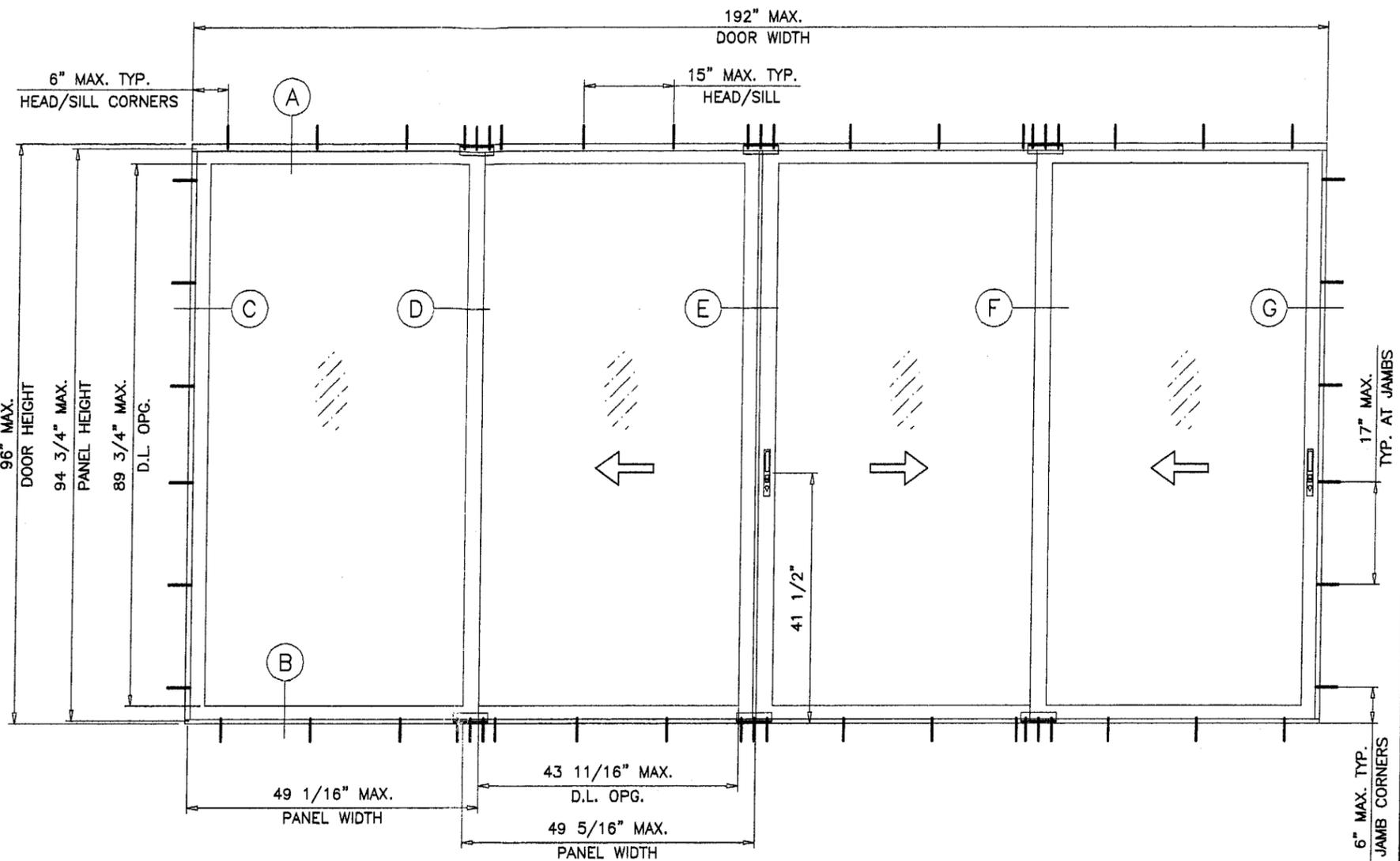
XXX (SHOWN)

OXXO

XXXO (SHOWN)
XXXX

APPROVED CONFIGURATIONS

TWO TRACK FRAME DOOR CONFIGURATIONS OF MORE THAN FOUR PANELS USING STILE COMBINATIONS SHOWN IN THESE DETAILS MAY ALSO BE APPROVED (EXAMPLE OXXO).



**TYPICAL ELEVATION
TESTED UNIT**

DESIGN LOAD CAPACITY - PSF GLASS TYPES 'A' OR 'B'							
PANEL WIDTH NOMINAL FT./IN.	DOOR HEIGHT FT./IN.	HEAVY REINF'G		MEDIUM REINFOR'G		NO REINFOR'G	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
2/6	6/8	70.0	80.0	70.0	80.0	70.0	80.0
3/0		70.0	80.0	70.0	80.0	70.0	80.0
3/6		70.0	80.0	70.0	80.0	-	-
4/0		70.0	80.0	-	-	-	-
4/6		70.0	80.0	-	-	-	-
2/6	8/0	70.0	80.0	70.0	80.0	-	-
3/0		70.0	80.0	70.0	80.0	-	-
3/6		70.0	80.0	-	-	-	-
4/0		70.0	80.0	-	-	-	-

Approved as complying with the Florida Building Code
Date 03/18/04
NOA# 03-1208-02
Miami Dade Product Control
Divide
By *Alfredo Berra*

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

[Signature]
JAN 23 2004

afc
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W03-100ES

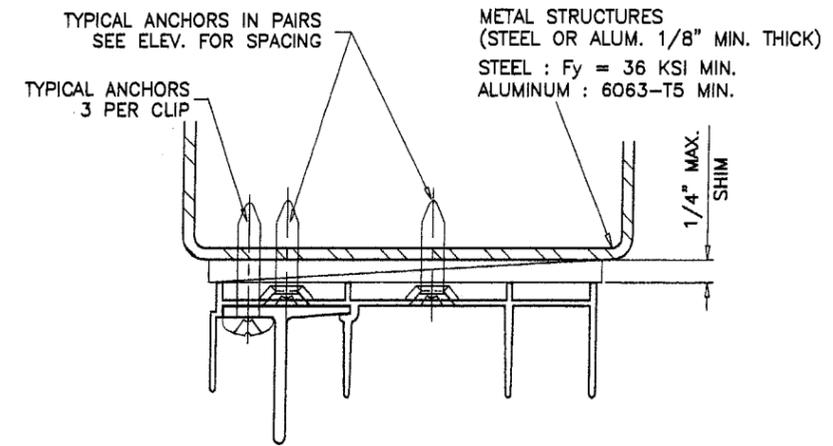
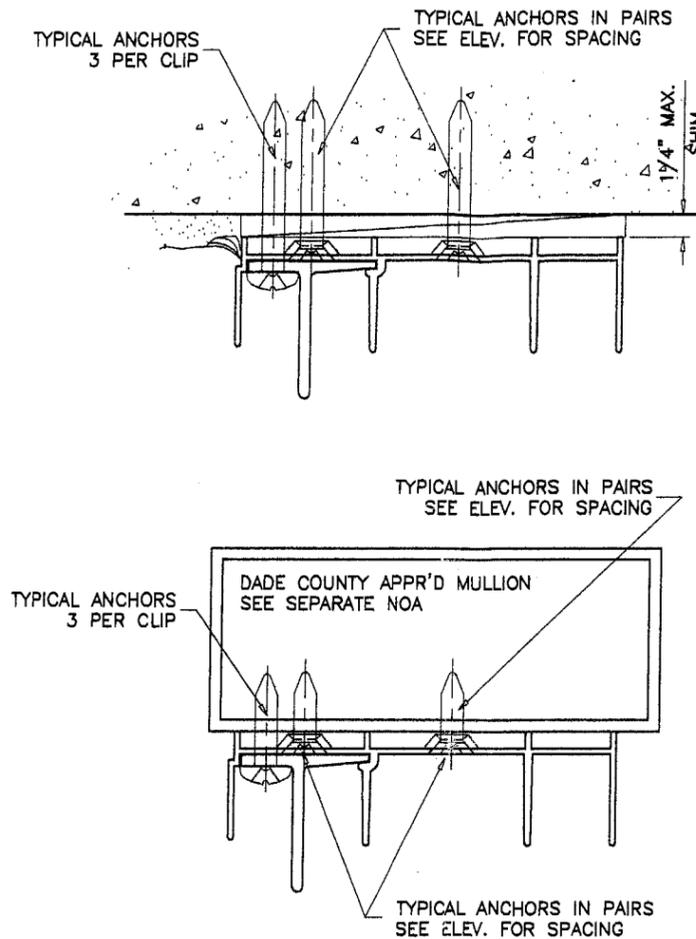
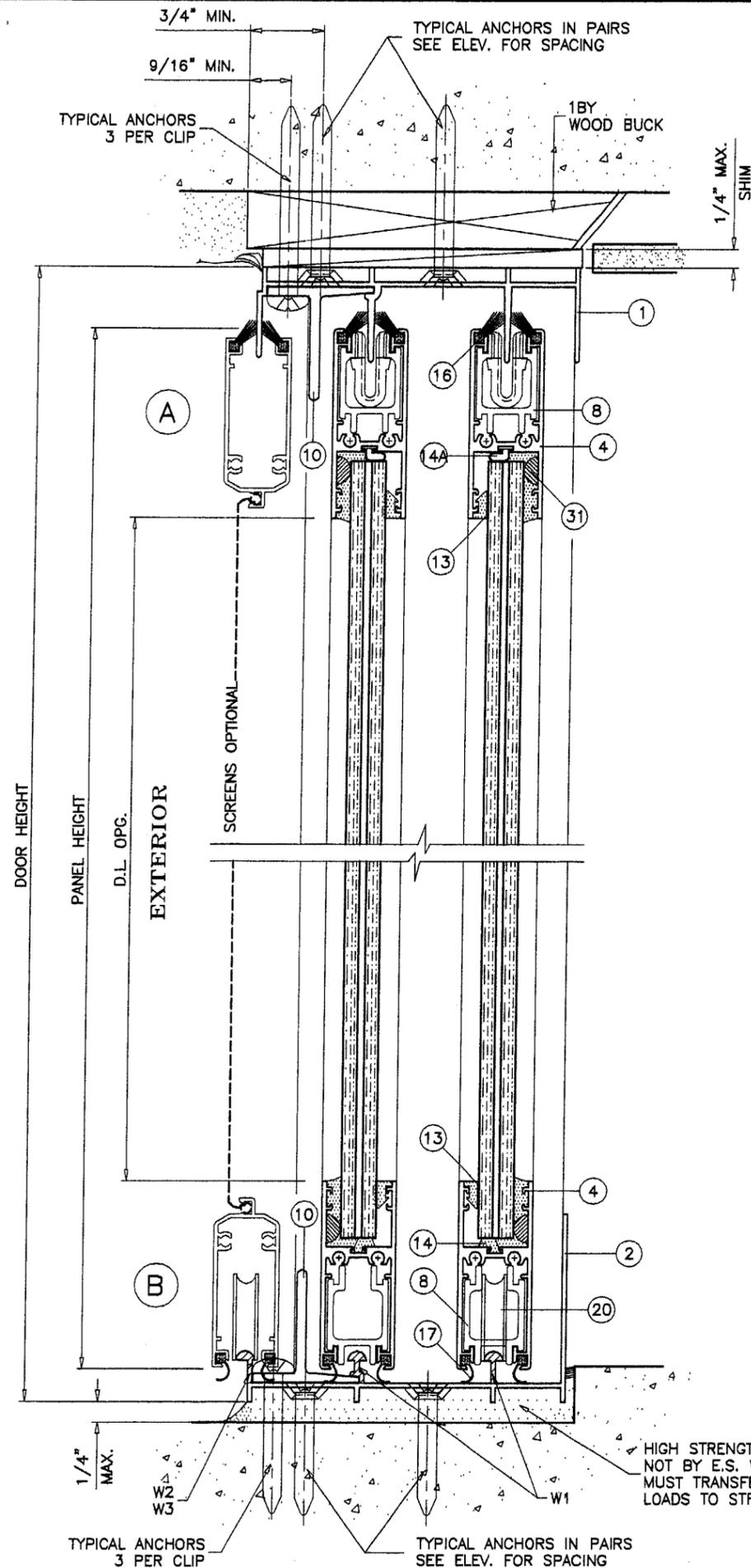
SERIES-3000 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL (305) 640-9857 FAX (305) 593-2074

revisions:

no	date	by	description
A	01.22.04		NO CHANGE THIS SHEET

date: 11-08-03
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W03-100
sheet 1 of 5



WOOD BUCKS NOT BY E.S. WINDOWS, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

- 1/4" TAPCONS** (BY ELCO TEXTRON)
 - INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 - 1-3/8" MIN. PENETRATION INTO WOOD
 - THRU 1BY BUCKS INTO CONC. OR MASONRY
 - 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 - DIRECTLY INTO CONC. OR MASONRY
 - 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

3/16" TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO METAL STRUCTURES (1/8" MIN. THICKNESS)
(1/4" MAX. SHIM SPACE)

#12 SMS OR SELF DRILLING SCREWS

INTO DADE COUNTY APPROVED MULLIONS
(NO SHIM SPACE)

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:

- W1 = 1-3/4" WEEP NOTCH AT EACH END
- W2 = 3/4" WEEP NOTCH AT EACH END
- W3 = 3" X 1/4" WEEP HOLES AT 2" FROM EACH END

Approved as complying with the
Florida Building Code
Date 03/18/04
NOA# 03-1208.02
Miami Dade Product Control
Division
By *[Signature]*

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538
[Signature]
JAN 23 2004

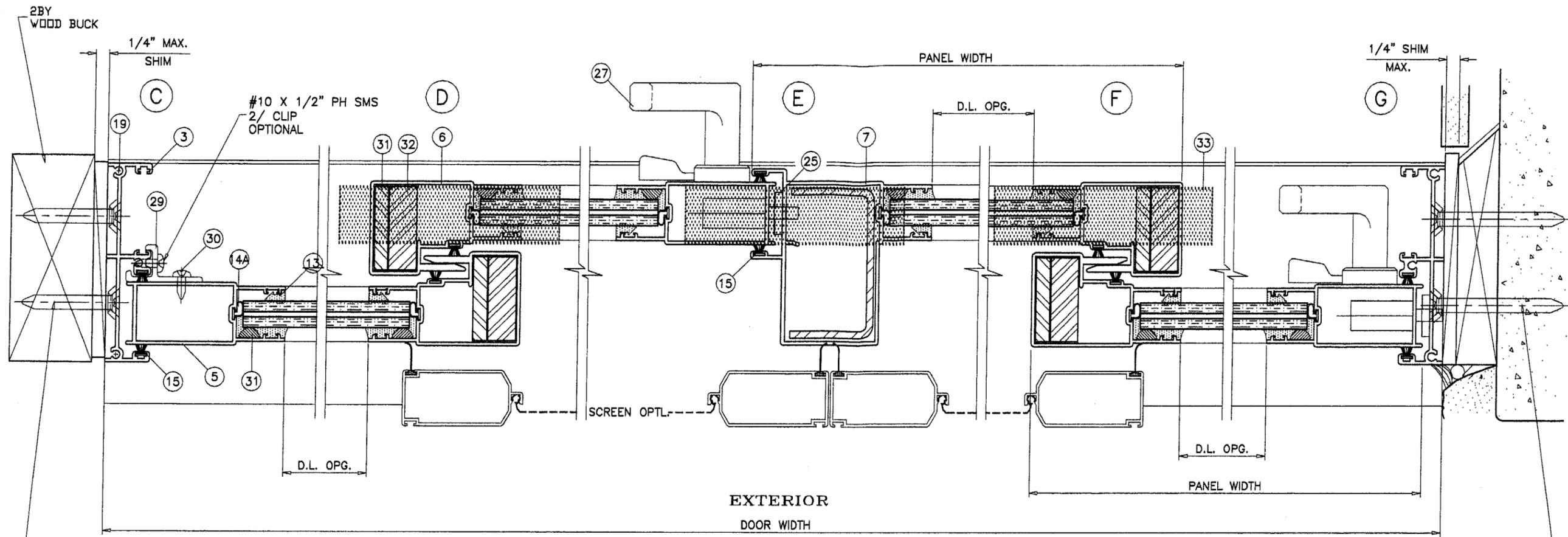
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revisions:	no	date	by	description
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date:	11-08-03
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dr. by:	HAMID
chk. by:	

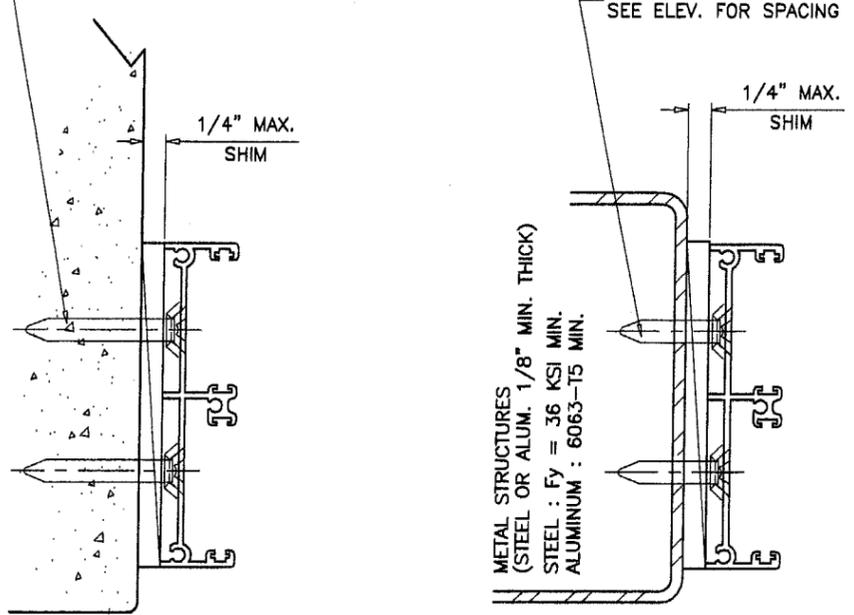
drawing no.	W03-100
sheet	2 of 5



TYPICAL ANCHORS IN PAIRS
SEE ELEV. FOR SPACING

TYPICAL ANCHORS IN PAIRS
SEE ELEV. FOR SPACING

TYPICAL ANCHORS IN PAIRS
SEE ELEV. FOR SPACING



METAL STRUCTURES
(STEEL OR ALUM. 1/8\"/>

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Florida Building Code
Date 09/18/04
NOA# 08-1208-02
Miami Dade Product Control
Division
By *[Signature]*

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

[Signature]

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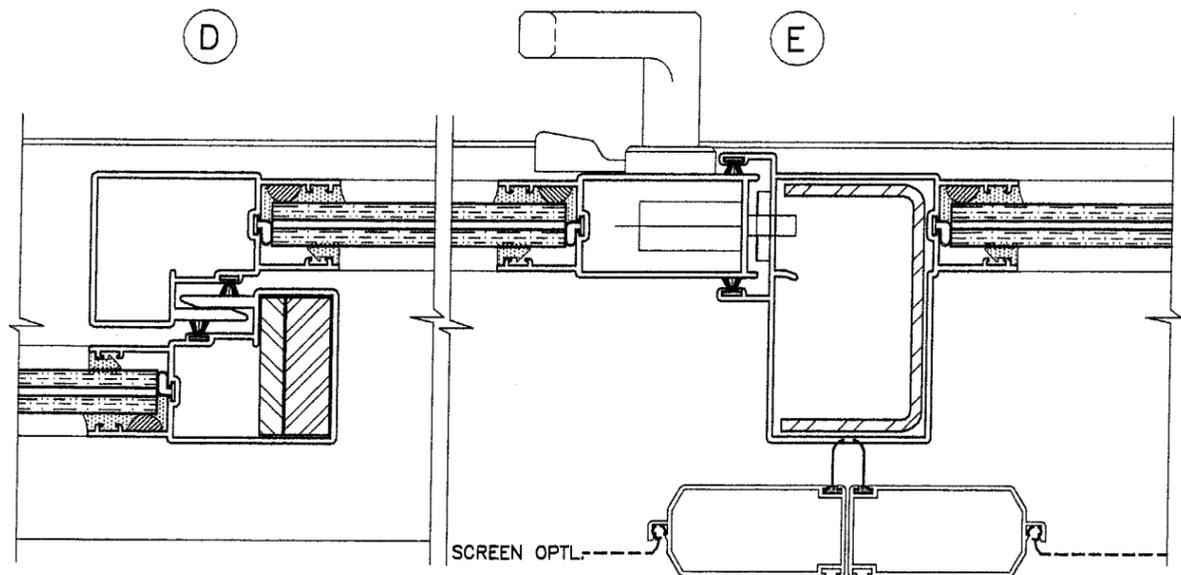
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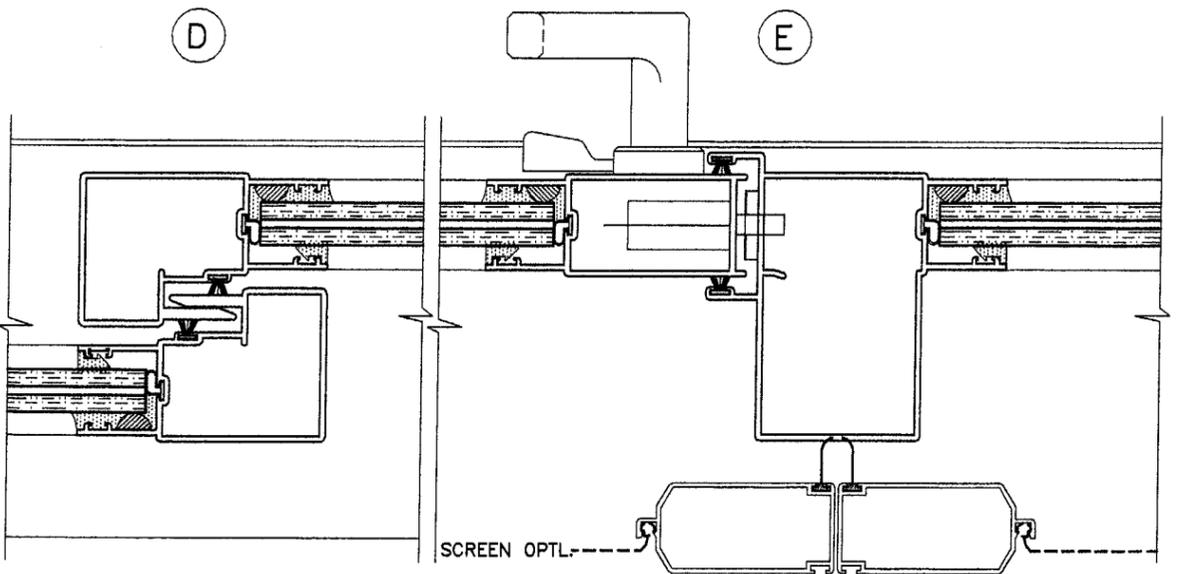
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dr. by: HAMID
chk. by:

drawing no.
W03-100
sheet 3 of 5

COMP-ANL\W03-100ES



MEDIUM REINFORCING



NO REINFORCING

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-4001-1	1	FRAME HEAD	6063-T5	-
2	ES-4002-1	1	FRAME SILL	6063-T5	-
3	ES-4003-1	1	FRAME JAMB	6063-T5	-
4	ES-4004-1	2/ PANEL	TOP AND BOTTOM RAIL	6063-T5	-
5	ES-4005-1	AS REQD.	LOCK STILE	6063-T5	-
6	ES-4006-1	AS REQD.	INTERLOCK	6063-T5	-
7	ES-4007-1	AS REQD.	FEMALE ASTRAGAL	6063-T5	-
8	ES-4008	AS REQD.	TOP & BOTTOM RAIL STIFFENER	6063-T6	-
9	ES-4009	2/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	NOT SHOWN
10	ES-4010	2/ PANEL	RETAINER CLIP, 6" LONG	6063-T5	-
13	ES-4013	AS REQD.	GLAZING WEDGE	-	-
14	ES-4014	AS REQD.	BOTTOM RAIL GLASS STOP	NEOPRENE	-
14A	ES-4019	AS REQD.	SILICONE STOP	NEOPRENE	-
15	W22241NG	AS REQD.	STILE & JAMB W'STRIPPING	-	GLASS PANELS, ULTRAFAB
16	Q26647DK	AS REQD.	TOP RAIL W'STRIPPING	-	GLASS PANELS, ULTRAFAB
17	ES-4015	AS REQD.	BOTTOM RAIL W'STRIPPING	VINYL	GLASS PANELS
19	#10X1-1/4" PH SMS	8/ PANEL	PANEL ASSY SCREWS	-	GLASS PANELS
19A	#10X1" FH SMS	2/ CORNER	FRAME ASSY SCREWS	-	-
20	TA-35-1935-4281	2/ MOV. PANEL	GLASS PANEL ROLLER ASSY.	ST. STEEL	1-1/4" O.D. WHEELS
21	#10X1-1/4" PH SMS	1/ ROLLER	ROLLER INST. SCREWS	-	GLASS PANELS ONLY
23	2300-10SS	1/ MOV. PANEL	MORTISE LOCK	ST. STEEL	-
24	-	2/ LOCK	LOCK INSTALLATION SCREW	-	#6-32 X 1/2" FH MS, ST. STEEL
25	537	1/ LOCK	LOCK STRIKE PLATE	PLATED STEEL	-
26	#10 PH SMS	2/ LOCK	STRIKE PLATE MOUNT. SCREW	-	NOT SHOWN
27	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	-	(3) #6-32 X 1/2" FH MS, ST. STEEL
28	-	-	-	-	-
29	ES-4017	2/ PANEL	FIXED PANEL CLIP	6063-T5	-
30	#10X1/2" PH SMS	2/ CLIP	FIXED PANEL CLIP FASTENER	-	-
31	-	AS REQD.	1/4" X 1-1/2" REINFORCING BAR	STEEL	-
32	-	AS REQD.	1/2" X 1-1/2" REINFORCING BAR	STEEL	-
33	-	AS REQD.	1"X4" LONG SELF ADHESIVE PILE PAD	WOOL	AT HEAD AND SILL

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Engr: DR. HUMAYOUN FAROOQ
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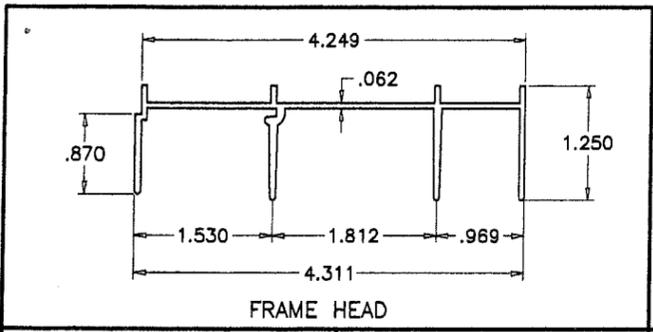
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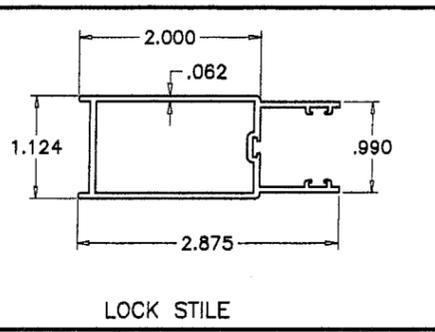
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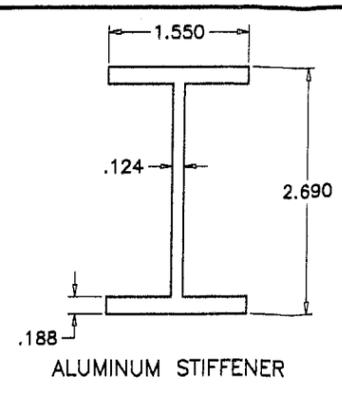
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W03-100
sheet 4 of 5



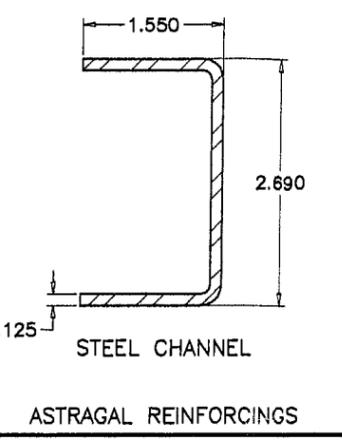
FRAME HEAD



LOCK STILE

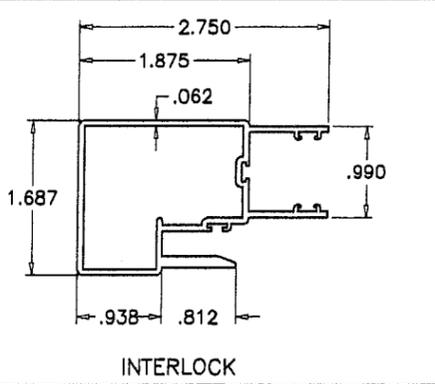


ALUMINUM STIFFENER

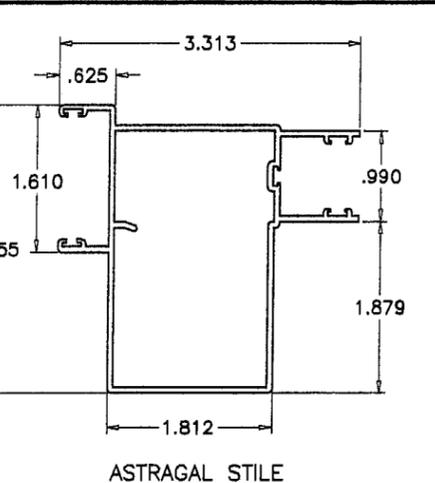


STEEL CHANNEL

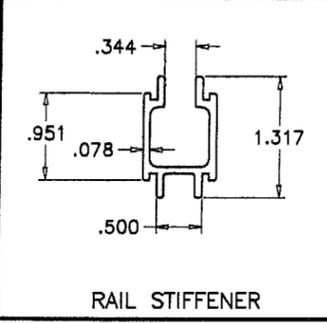
ASTRAGAL REINFORCINGS



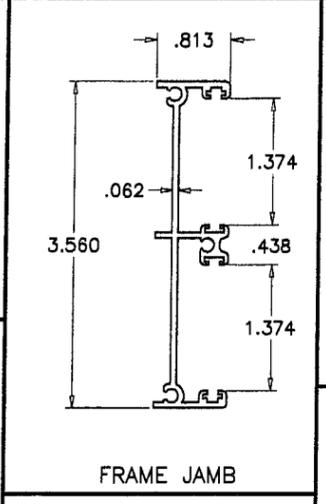
INTERLOCK



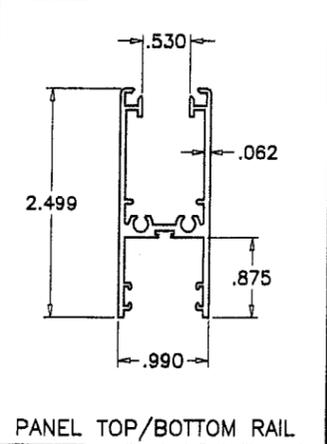
ASTRAGAL STILE



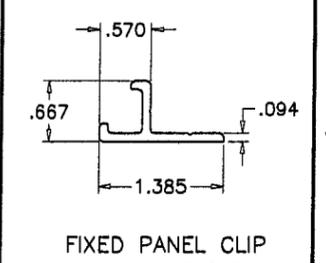
RAIL STIFFENER



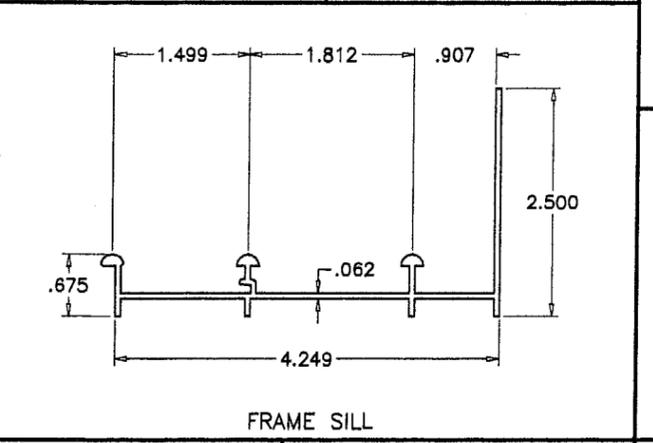
FRAME JAMB



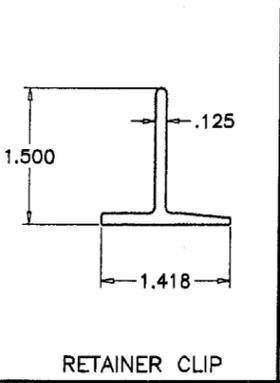
PANEL TOP/BOTTOM RAIL



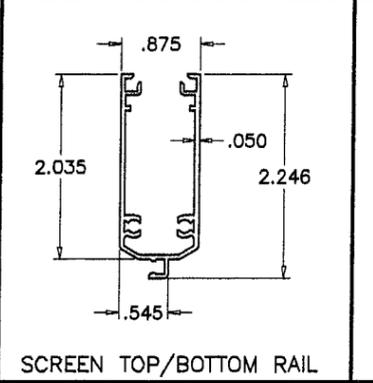
FIXED PANEL CLIP



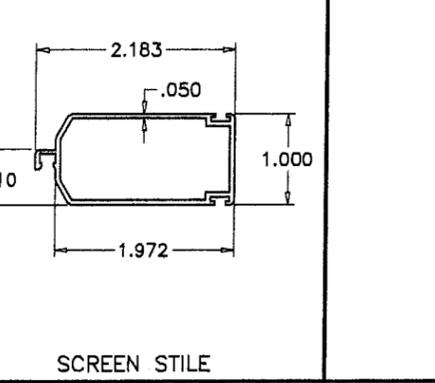
FRAME SILL



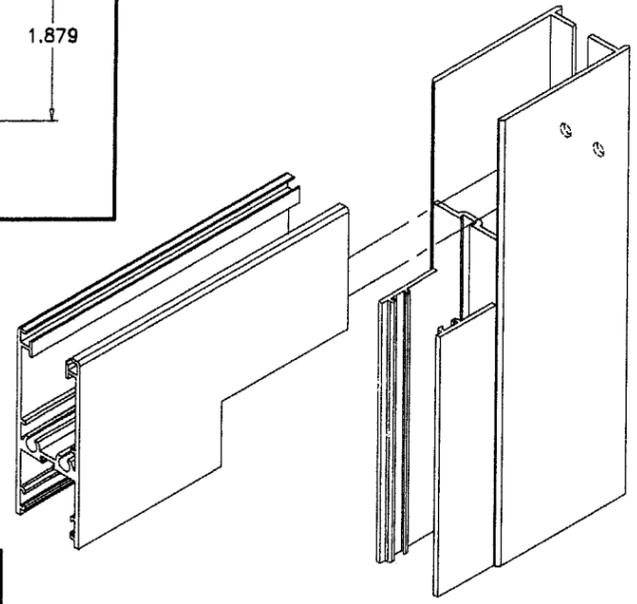
RETAINER CLIP



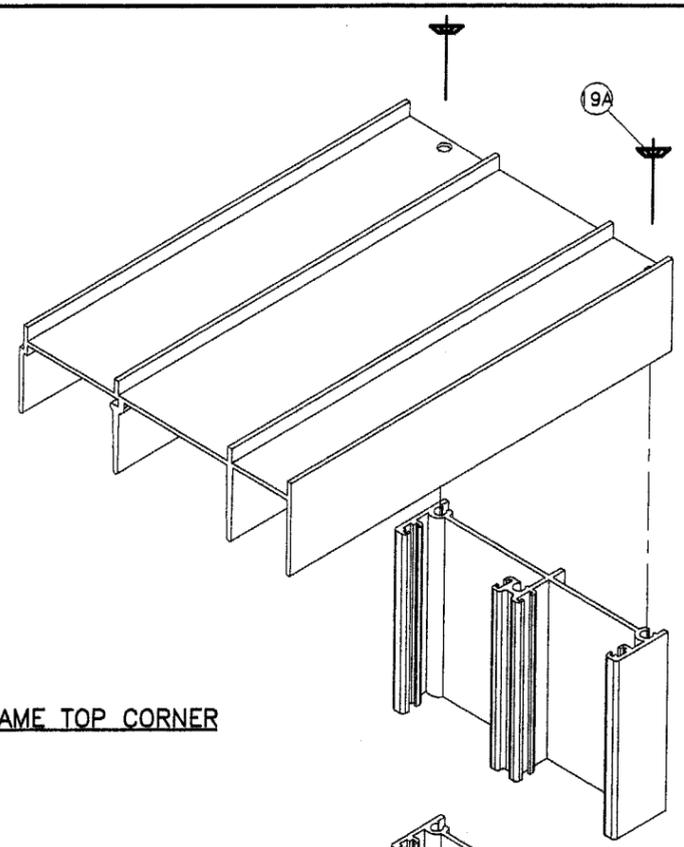
SCREEN TOP/BOTTOM RAIL



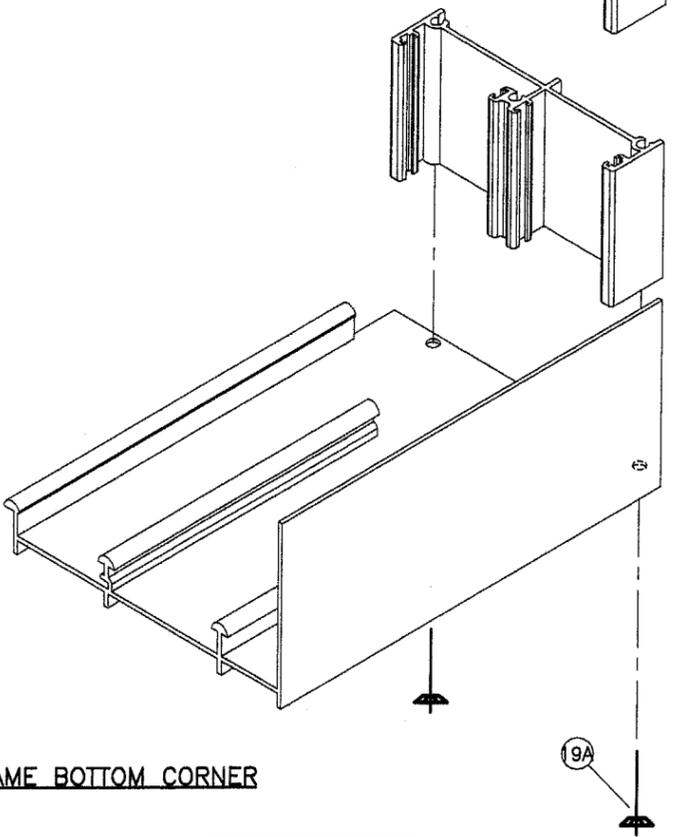
SCREEN STILE



PANEL CORNER



FRAME TOP CORNER



FRAME BOTTOM CORNER

Approved as complying with the Florida Building Code
 Date 03/18/04
 NOAS 03-1208.02
 Miami Dade Product Control
 Div: *Aluminum*

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 JAN 23 2004

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W03-100ES

SERIES-3000 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS
 5220 N.W. 72 AVE. BAY #4
 MIAMI, FL. 33166
 TEL. (305) 640-9857 FAX. (305) 593-2074

no	date	by	description
A	01.22.04		NO CHANGE THIS SHEET

date: 11-08-03
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W03-100
 sheet 5 of 5