



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.buldingcodeonline.com

ES Windows LLC
10653 NE Quaybridge Ct.
Miami, FL 33138

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 2000 Aluminum Horizontal Sliding Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W03-75**, titled "Series-2000 Alum. Horiz. Sliding Wdw. (L.M.I.)", sheets 1 through 8 of 8, dated 08/27/03 with revision D dated 05/12/08, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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" or the Product Control Seal, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA # **07-0928.13** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 08-0527.13
Expiration Date: November 6, 2013
Approval Date: July 10, 2008
Page 1

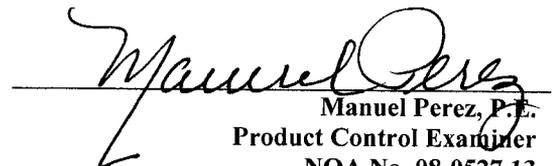
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W03-75**, Sheets 1 through 8 of 8, titled "Series-2000 Alum. Horiz. Sliding Wdw. (L.M.I.)", dated 08/27/03 with revision D dated 05/12/08, prepared by Al-Farooq Corporation, 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, TAS 202-94along with marked-up drawings and installation diagram of series 2000 aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-5475**, dated 01/18/08, signed and sealed by Carlos S. Rionda, 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, TAS 202-94along with marked-up drawings and installation diagram of series 2000 aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-5338**, dated 01/17/08, signed and sealed by Carlos S. Rionda, P. E.
(Submitted under previous NOA #07-0928.13)
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 202-94along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-3809**, dated 06/16/03, signed and sealed by Joseph Chan, P. E.
(Submitted under previous NOA #03-0910.02)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0527.13
Expiration Date: November 6, 2013
Approval Date: July 10, 2008

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. 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 horizontal sliding window, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-3804**, dated 05/15/03, revised & reissued by Fenestration Testing Laboratory dated 08/10/06, all signed and sealed by Joseph Chan, P. E.
(Submitted under previous NOA #03-0910.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004 and 2008, prepared by Al-Farooq Corporation, dated 05/28/08, signed and sealed by Humayoun Farooq, P.E.
Complies with ASTM E1300-02

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

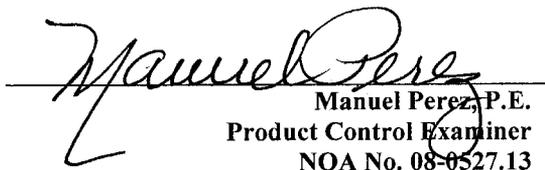
1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont SentryGlas ® Plus**" dated 01/03/08, expiring on 01/14/12.
2. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite PVB Interlayer**" dated 01/05/06, expiring on 12/11/10.

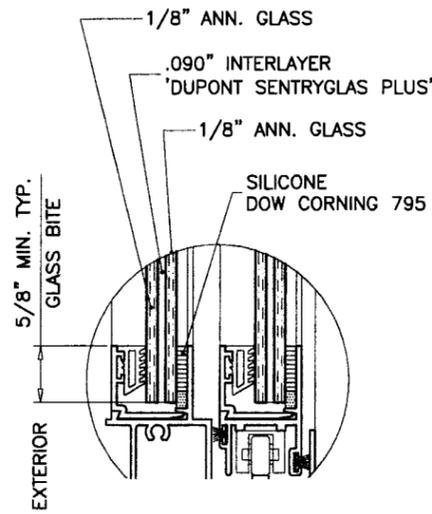
F. STATEMENTS

1. Statement letter of conformance, dated May 6, 2008, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated May 6, 2008, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report no. FTL-5475, issued by Fenestration Testing Laboratory, Inc., dated January 21, 2008, signed and sealed by Carlos S. Rionda, P.E.

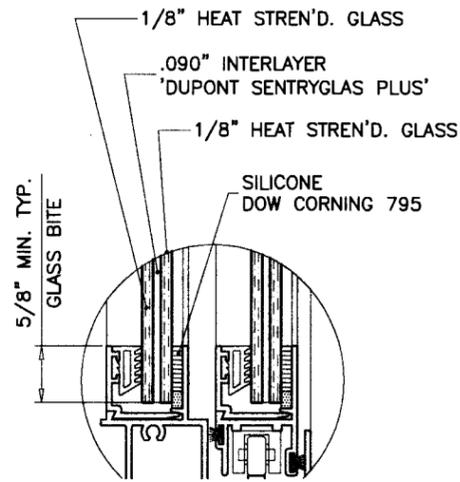
G. OTHER

1. Notice of Acceptance No. **07-0928.13**, issued to ES Windows LLC for their Series 2000 Aluminum Horizontal Sliding Window, approved on 05/08/08 and expiring on 11/06/08.

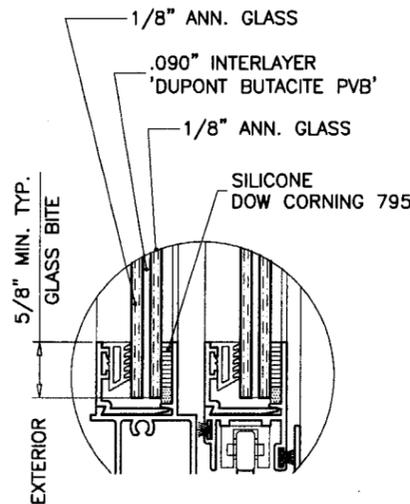

Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0527.13
Expiration Date: November 6, 2013
Approval Date: July 10, 2008



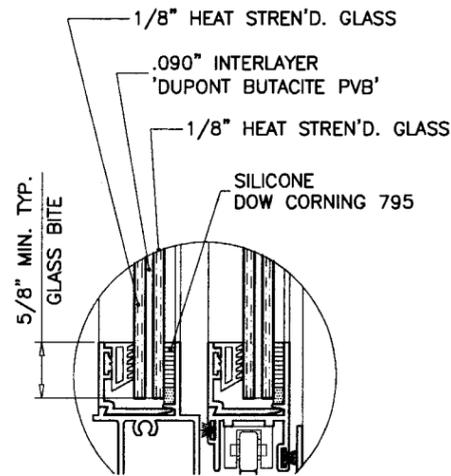
GLASS TYPE 'A'



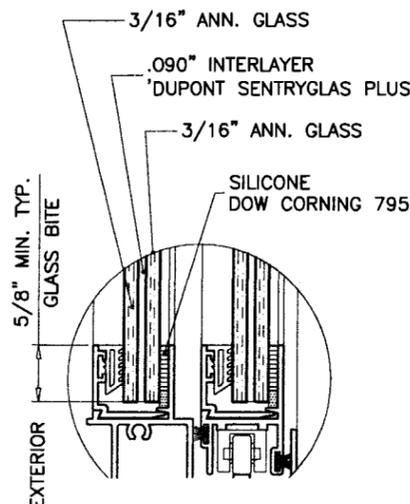
GLASS TYPE 'A1'



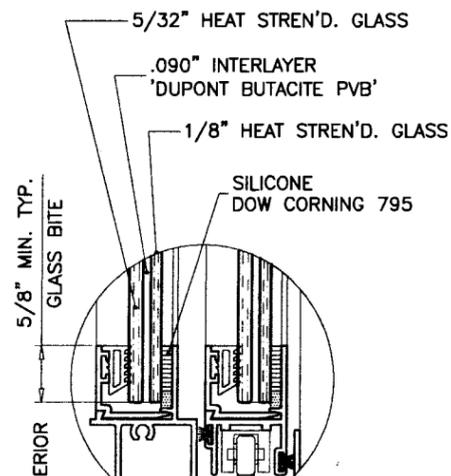
GLASS TYPE 'B'



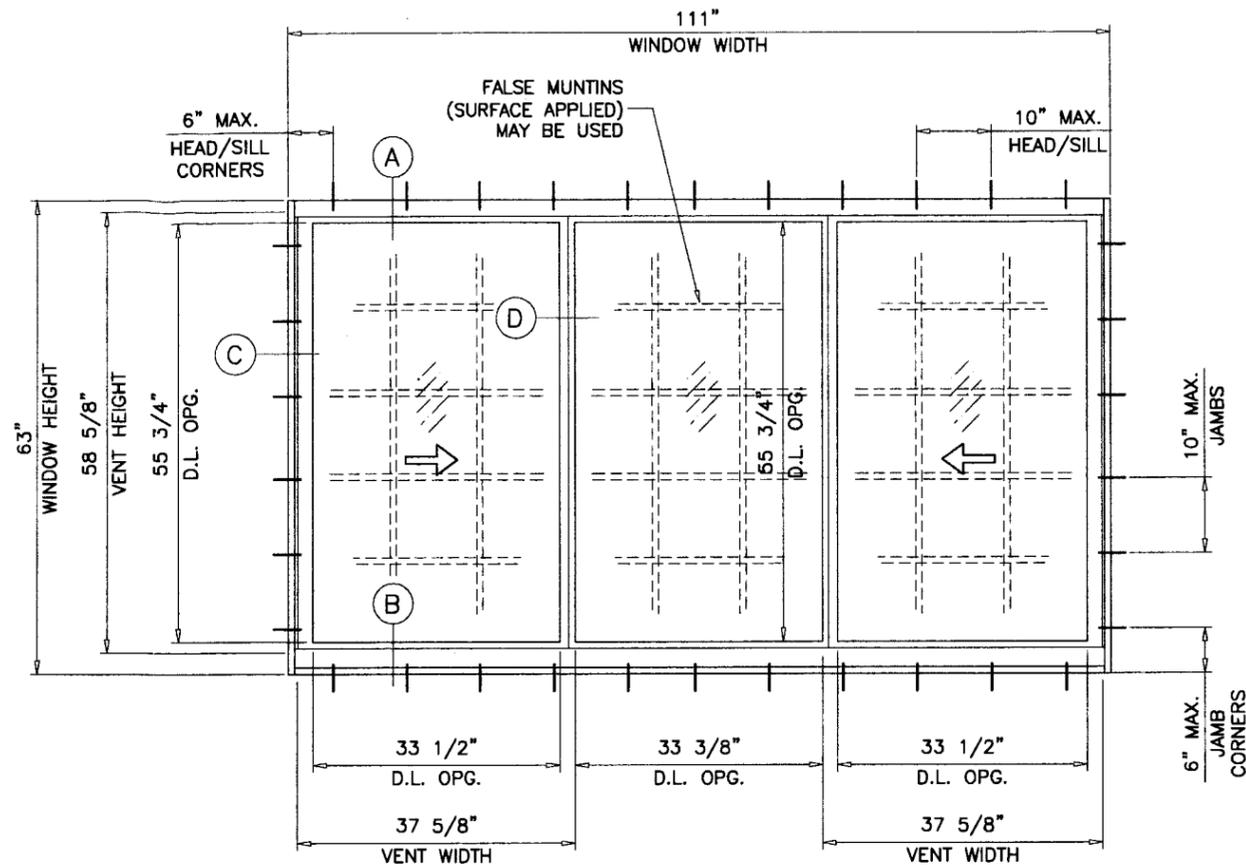
GLASS TYPE 'B1'



GLASS TYPE 'C'



GLASS TYPE 'D'



TYPICAL ELEVATION
TESTED UNIT

SERIES-2000 ALUM HORIZ. SLIDING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2 & 3.

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR H.R. WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004/2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS 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.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BLDG. CODE SECTION 2003.8.4.

LAMINATED GLASS
LARGE MISSILE IMPACT

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-0527.13
Expiration Date Nov. 6, 2013
By: *Manuel Pera*
Miami Dade Product Control
Division

MAY 16 2008

SERIES-2000 ALUM HORIZ. SLIDING WDW. (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	09.29.03		NO CHANGE THIS SHEET
B	05.11.06		UPDATED FOR 2004 FBC
C	09.21.07		GLASS TYPE 'D' ADDED
D	05.12.08		GENERAL REVISION

date: 08-27-03
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W03-75

sheet 1 of 8

afc

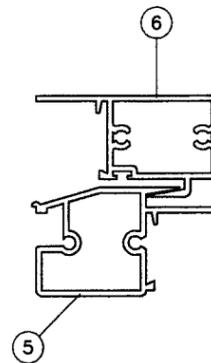
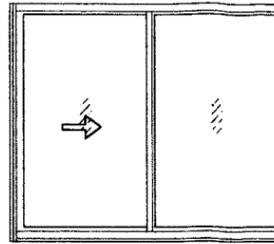
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W03-75ES

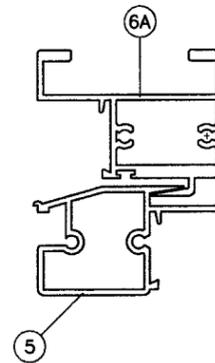
DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)

WINDOW DIMS.		A	STD. MTG. RAIL						H.D. MTG. RAIL	
			GLASS TYPE 'A'		GLASS TYPE 'A1'		GLASS TYPE 'D'		GLASS TYPE 'A1'	
			GLASS TYPE 'B'	GLASS TYPE 'B1'	GLASS TYPE 'C'	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)
WIDTH	HEIGHT		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"	26" (3)	3	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
53-1/8"		5	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
74"		7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
26-1/2"	38-3/8" (3)	3	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
53-1/8"		5	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
74"		7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
26-1/2"	50-5/8" (4)	3	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
53-1/8"		5	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
74"		7	-	-	70.0	90.0	70.0	80.0	83.3	90.0
26-1/2"	63" (5)	3	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
37"		4	58.9	67.3	70.0	90.0	70.0	80.0	83.3	90.0
53-1/8"		5	42.6	48.7	70.0	86.6	70.0	80.0	83.3	90.0
74"		7	-	-	-	-	-	-	83.3	90.0
24"	24" (2)	2	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
36"		3	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
48"		4	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
60"		5	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
72"		6	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
24"	36" (3)	2	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
36"		3	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
48"		4	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
60"		5	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
72"		6	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
24"	48" (4)	2	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
36"		3	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
48"		4	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
60"		5	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
72"		6	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
24"	60" (5)	2	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
36"		3	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
48"		4	54.2	61.9	70.0	90.0	70.0	80.0	83.3	90.0
60"		5	45.1	51.5	70.0	87.3	70.0	80.0	83.3	90.0
72"		6	-	-	70.0	78.7	70.0	78.7	83.3	90.0

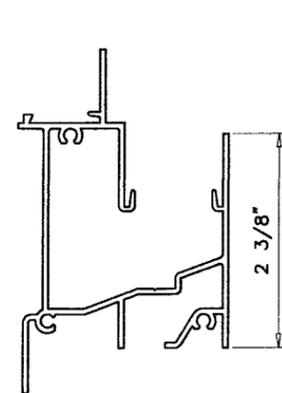
A = NO. OF ANCHORS PER HEAD & SILL
() = NO. OF ANCHORS PER JAMB



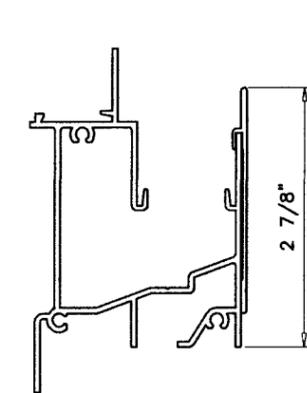
STD. MTG. RAIL



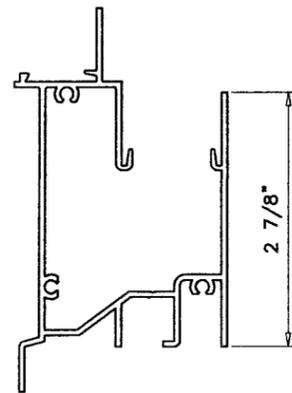
H.D. MTG. RAIL



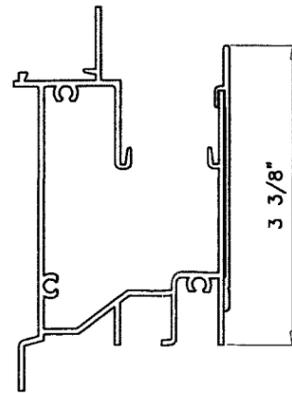
STD. SILL WITHOUT RISER
LIMIT EXT.(+) LOADS TO 53.3 PSF



STD. SILL WITH RISER
LIMIT EXT.(+) LOADS TO 70.0 PSF



HI-RISE SILL WITHOUT RISER
LIMIT EXT.(+) LOADS TO 67.5 PSF



HI-RISE SILL WITH RISER
LIMIT EXT.(+) LOADS TO 83.3 PSF

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02/04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

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

PRODUCT REVISED
as complying with the Florida
Building Code
Accepted No. 08-0527.13
Expiration Date Nov. 6, 2013
By *Manuel Perez*
Miami Dade Product Control
Division

MAY 16 2008

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 262-8100 FAX. (305) 262-8978
COMP-ANL W03-75ES

SERIES-2000 ALUM. HORIZ. SLIDING WDW. (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	09.29.03		NO CHANGE THIS SHEET
B	05.11.06		UPDATED FOR 2004 FBC
C	09.21.07		GLASS TYPE 'D' ADDED
D	05.12.08		GENERAL REVISION

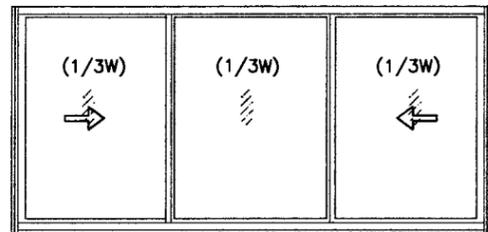
date: 08-27-03
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W03-75
sheet 2 of 8

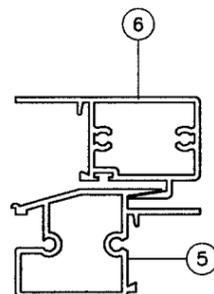
DESIGN LOAD CAPACITY - PSF (XOX SIZES)

WINDOW DIMS.		A	STD. MTG. RAIL						H.D. MTG. RAIL	
			GLASS TYPE 'A'		GLASS TYPE 'A1'		GLASS TYPE 'D'		GLASS TYPE 'A1'	
			GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'B1'	GLASS TYPE 'C'	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
WIDTH	HEIGHT		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74"	26"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	-	-	-	-	-	-	83.3	90.0
106-1/4"	38-3/8"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	-	-	-	-	-	-	83.3	90.0
106-1/4"	50-5/8"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	-	-	-	-	-	-	83.3	90.0
106-1/4"	63"	7	45.4	51.9	70.0	90.0	70.0	80.0	83.3	90.0
		10	-	-	-	-	-	-	83.3	90.0
		10	-	-	-	-	-	-	83.3	90.0
72"	24"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
84"	36"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
72"	48"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
72"	60"	7	54.2	61.9	70.0	90.0	70.0	80.0	83.3	90.0
		8	47.6	54.4	70.0	90.0	70.0	80.0	83.3	90.0
		9	-	-	70.0	83.9	70.0	80.0	83.3	90.0
		10	-	-	70.0	78.7	70.0	78.7	83.3	90.0

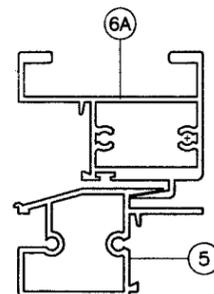
A = NO. OF ANCHORS PER HEAD & SILL
() = NO. OF ANCHORS PER JAMB



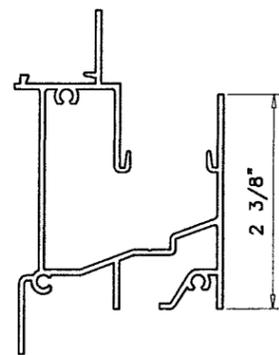
OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH



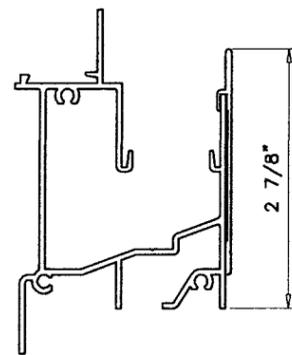
STD. MTG. RAIL



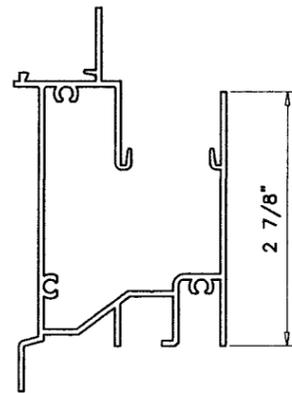
H.D. MTG. RAIL



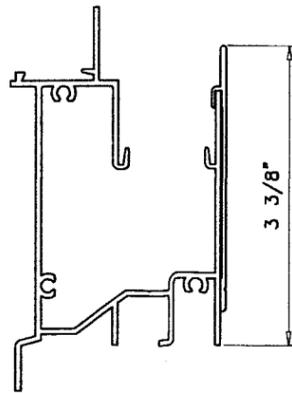
STD. SILL WITHOUT RISER
LIMIT EXT.(+) LOADS TO 53.3 PSF



STD. SILL WITH RISER
LIMIT EXT.(+) LOADS TO 70.0 PSF



HI-RISE SILL WITHOUT RISER
LIMIT EXT.(+) LOADS TO 66.7 PSF

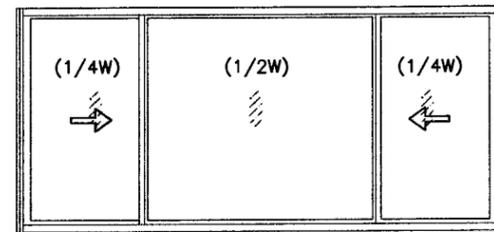


HI-RISE SILL WITH RISER
LIMIT EXT.(+) LOADS TO 83.3 PSF

DESIGN LOAD CAPACITY - PSF (XOX SIZES)

WINDOW DIMS.		A	STD. MTG. RAIL						H.D. MTG. RAIL	
			GLASS TYPE 'A'		GLASS TYPE 'A1'		GLASS TYPE 'D'		GLASS TYPE 'A1'	
			GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'B1'	GLASS TYPE 'C'	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
WIDTH	HEIGHT		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74"	26"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	-	-	-	-	-	-	83.3	90.0
106-1/4"	38-3/8"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	-	-	70.0	90.0	70.0	80.0	83.3	90.0
		10	-	-	-	-	-	-	83.3	90.0
106-1/4"	50-5/8"	7	-	-	70.0	90.0	70.0	80.0	83.3	90.0
		7	-	-	-	-	-	-	83.3	90.0
		7	-	-	-	-	-	-	83.3	90.0
72"	24"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
84"	36"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		10	-	-	70.0	90.0	70.0	80.0	83.3	90.0
72"	48"	7	70.0	80.0	70.0	90.0	70.0	80.0	83.3	90.0
		8	-	-	70.0	90.0	70.0	80.0	83.3	90.0
		9	-	-	-	-	-	-	83.3	90.0
72"	60"	7	-	-	70.0	90.0	70.0	80.0	83.3	90.0

A = NO. OF ANCHORS PER HEAD & SILL
() = NO. OF ANCHORS PER JAMB



OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02/04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

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

PRODUCT REVISED
as complying with the Florida
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Acceptance No. 08-0527.13
Expiration Date Nov. 6, 2013
By *Maurice Perez*
Miami Dade Product Control
Division

MAY 16 2008

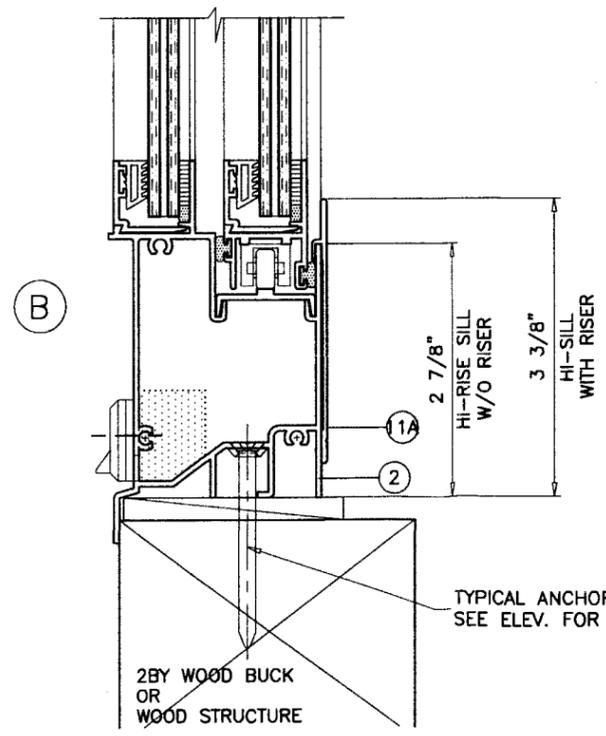
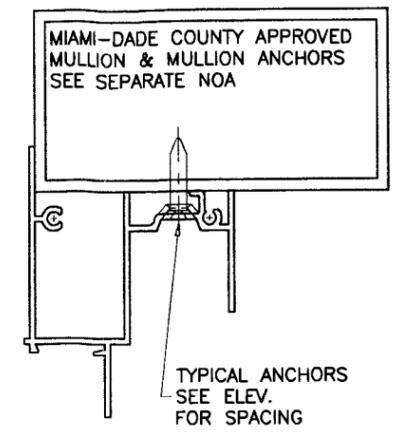
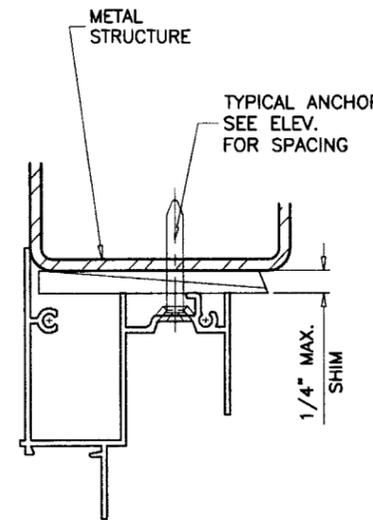
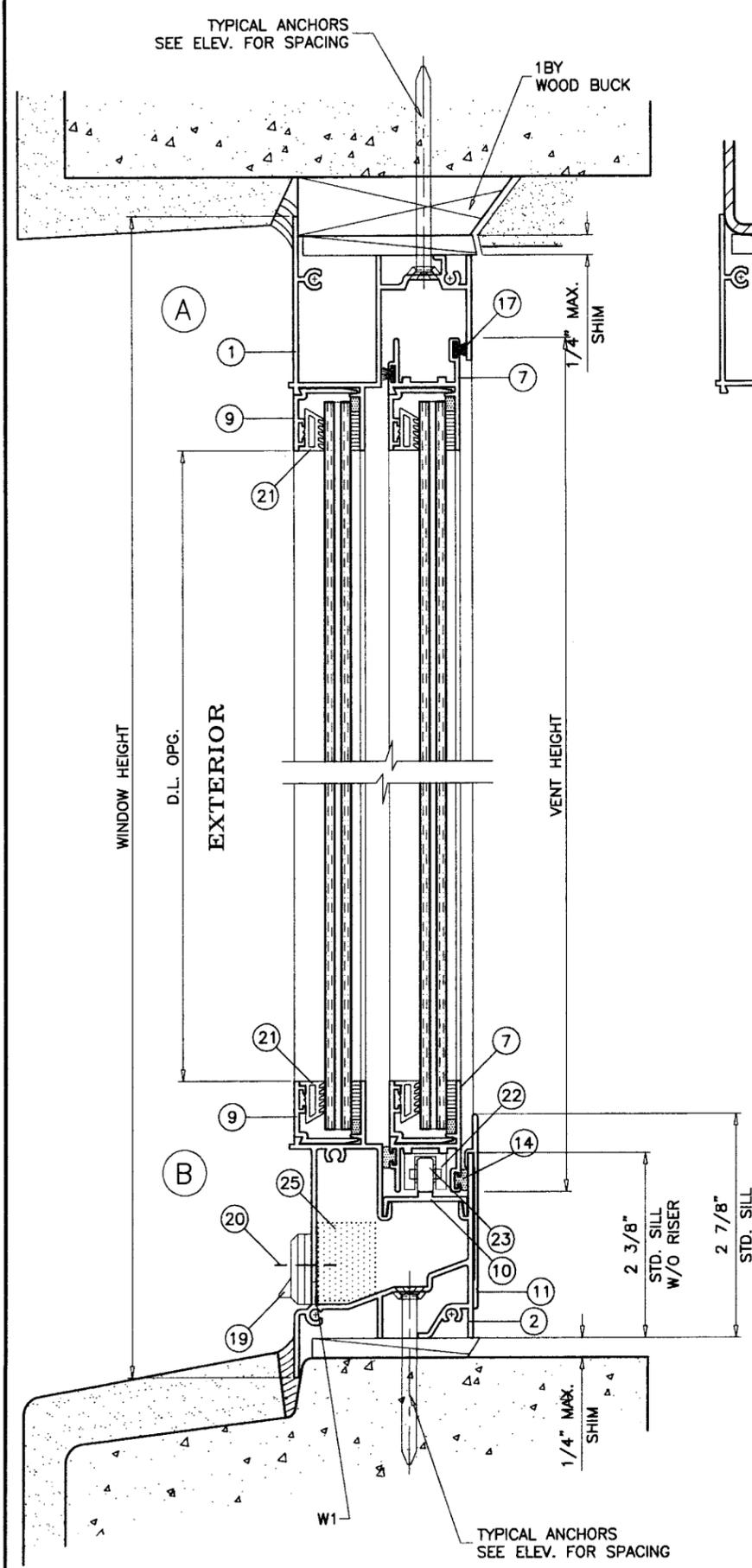
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-75ES

SERIES-2000 ALUM. HORIZ. SLIDING WDW. (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
	C	09.21.07		GLASS TYPE 'D' ADDED
	D	05.12.08		GENERAL REVISION

date: 08-27-03
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W03-75
sheet 3 of 8



WOOD BUCKS AND METAL STRUCTURE 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
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 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

#14 SMS OR SELF DRILLING SCREWS
 INTO DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 3/4" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

SEALANTS:
 FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:
 W1 = 1-13/16" X 1/4" WEEPHOLES AT 3" FROM EACH END WITH PLASTIC BAFFLE
 W2 = 1/4" WEEPHOLE AT TOP & BOTTOM RAIL 1" FROM EACH END

Engr. DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 MAY 16 2008

PRODUCT REVISED
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 By *Manuel Perez*
 Miami Dade Product Control
 Division

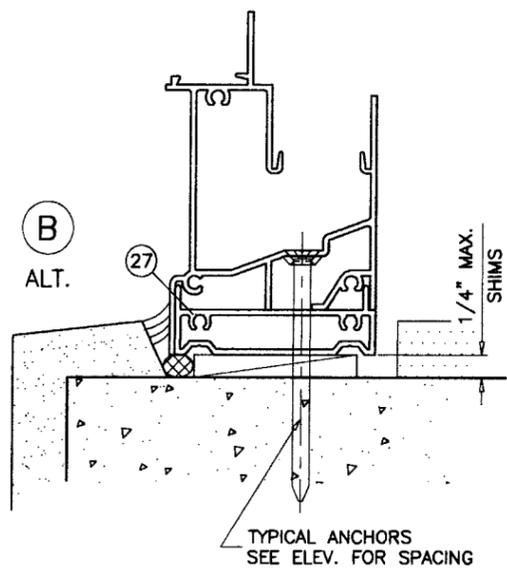
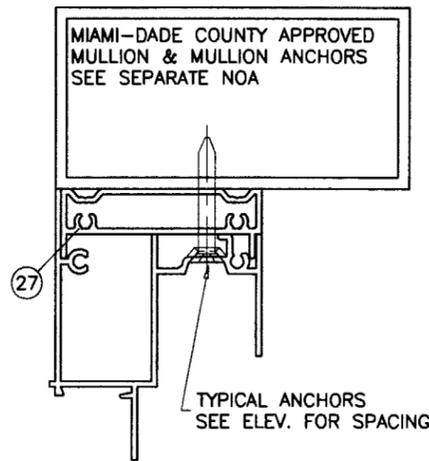
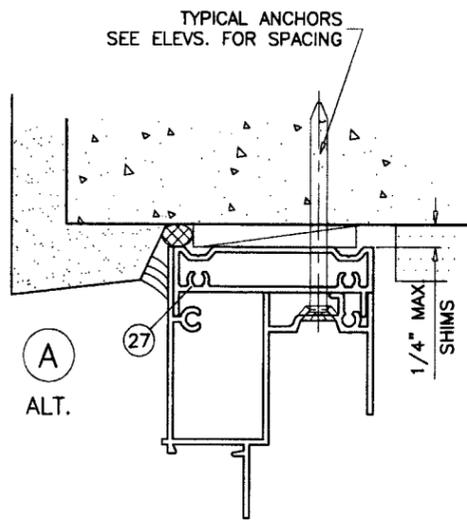
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E.S. WINDOWS
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no	date	description
A	09.29.03	STD. SILL DTL. ADDED
B	05.11.06	UPDATED FOR 2004 FBC
C	09.21.07	NO CHANGE THIS SHEET
D	05.12.08	GENERAL REVISION

date: 08-27-03
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W03-75
 sheet 4 of 8



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1003	1	FRAME HEAD	6063-T5	-
2	ES2001-1	1	STD. FRAME SILL	6063-T5	-
2A	ES2012	1	HI-RISE FRAME SILL	6063-T5	-
3	ES2000-3-1	1	FRAME JAMB VENT	6063-T5	-
4	ES2000-1	1	FRAME JAMB FIXED	6063-T5	-
5	ES2000-5-1	1/ VENT	FIXED RAIL	6063-T6	-
6	ES2000-4-1	1/ VENT	STD. VENT MEETING RAIL	6063-T6	-
6A	ES2004	1/ VENT	H.D. VENT MEETING RAIL	6063-T6	-
7	ES2000-7-1	2/ VENT	TOP AND BOTTOM RAIL	6063-T5	-
8	ES2000-6-1	1/ VENT	JAMB STILE	6063-T5	-
9	ES2000-8-1	AS REQD.	GLAZING BEAD	6063-T5	-
10	ES2002-1	1	SILL TRACK INSERT	6063-T5	-
11	ES2011	AS REQD.	STD. SILL RISER	6063-T5	-
11A	-	AS REQD.	HI-RISE SILL RISER	6063-T5	-
12	ES1009	2/ VENT	VENT LATCH	6063-T6	AT 8" FROM ENDS
13	ES1012	1/ LATCH	VENT LATCH SPRING	ST. STEEL	-
14	-	AS REQD.	FOAM FILLED FABRIC W'STRIPPING	-	SCHLEGEL
15	#8 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS	P.H. SMS
16	#8 X 3"	2/ VENT	FIX. RAIL SILL SCREWS (STD. SILL END)	CRS	P.H. SMS
16A	#10 X 4"	2/ VENT	FIX. RAIL SILL SCREWS (HI-RISE SILL END)	CRS	P.H. SMS
17	43620-187	AS REQD.	VENT & FIX. RAIL W'STRIPPING	-	AMESBURY OR EQUIV.
18	43628-187	AS REQD.	FRAME JAMB W'STRIPPING	-	AMESBURY OR EQUIV.
19	WPHL-100	2	BAFFLE	-	M & M PLASTICS
20	#6 X 3/8"	2/ BAFFLE	BAFFLE SCREW	-	P.H. SMS
21	ES1010	AS REQD.	GLAZING GASKET	SOFT PVC	-
22	ES2007	4/ VENT	ROLLER HOUSING & GUIDE	PLASTIC	-
23	ES2006	2/ VENT	ROLLER	BRASS/ST. ST.	-
24	ES2005	2/ VENT	ROLLER PIN	ST. STEEL	-
25	-	1/ WEEP	OPEN CELL FOAM PAD	-	1" X 3/4" X 1" LONG
26	-	1/ VENT	5/16" BOX SCREEN	-	OPTIONAL
27	ES1505	-	FLUSH FRAME ADAPTER	6063-T5	OPTIONAL

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

PRODUCT REVISED
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Expiration Date NOV. 6, 2013
By *Manuel Perez*
Miami-Dade Product Control
Division

MAY 16 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
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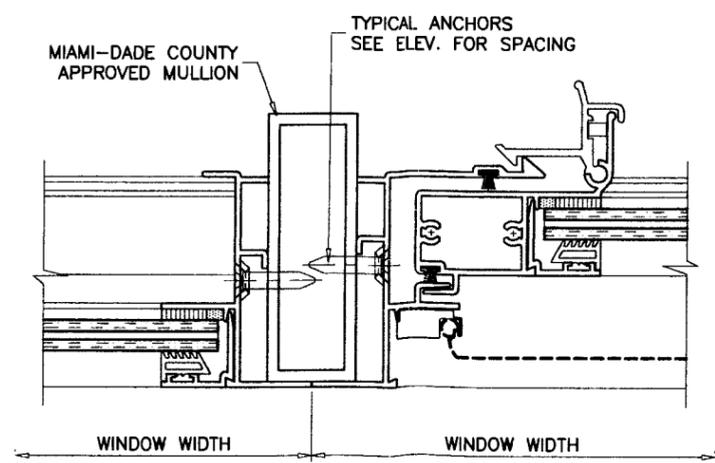
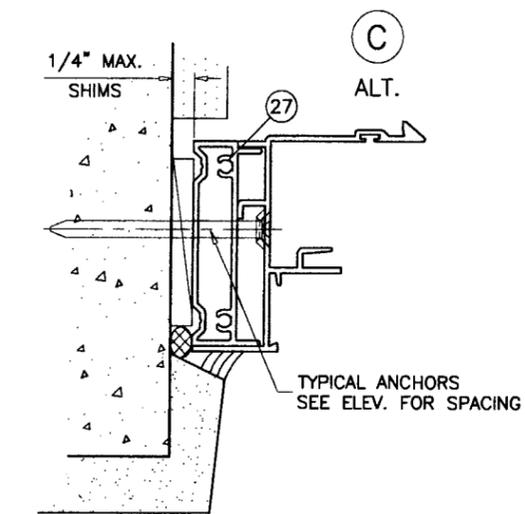
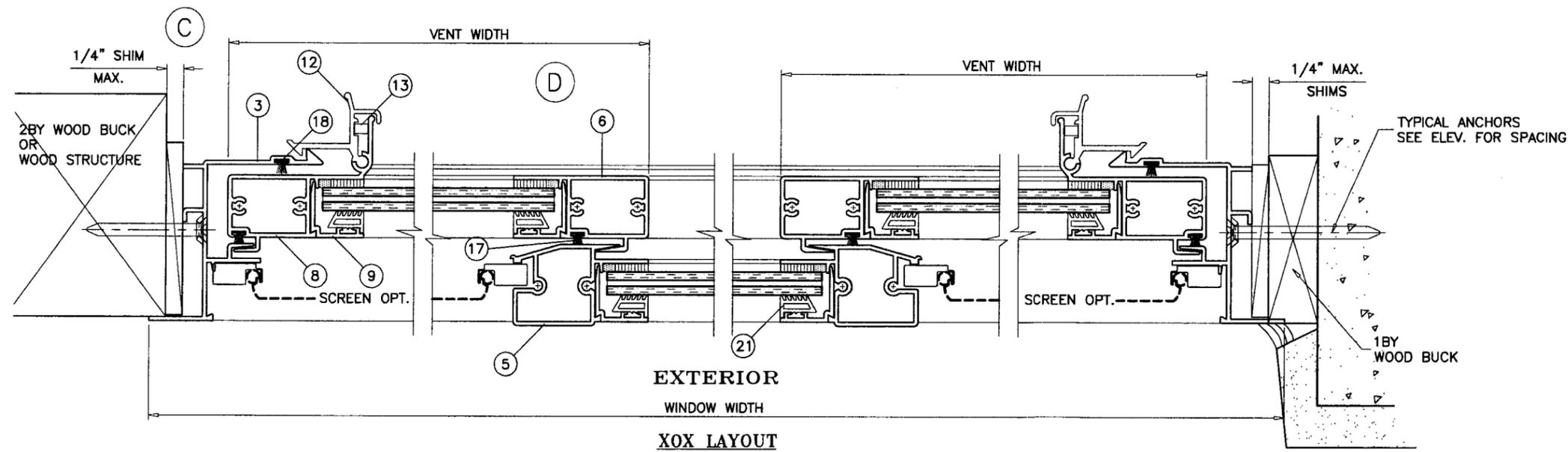
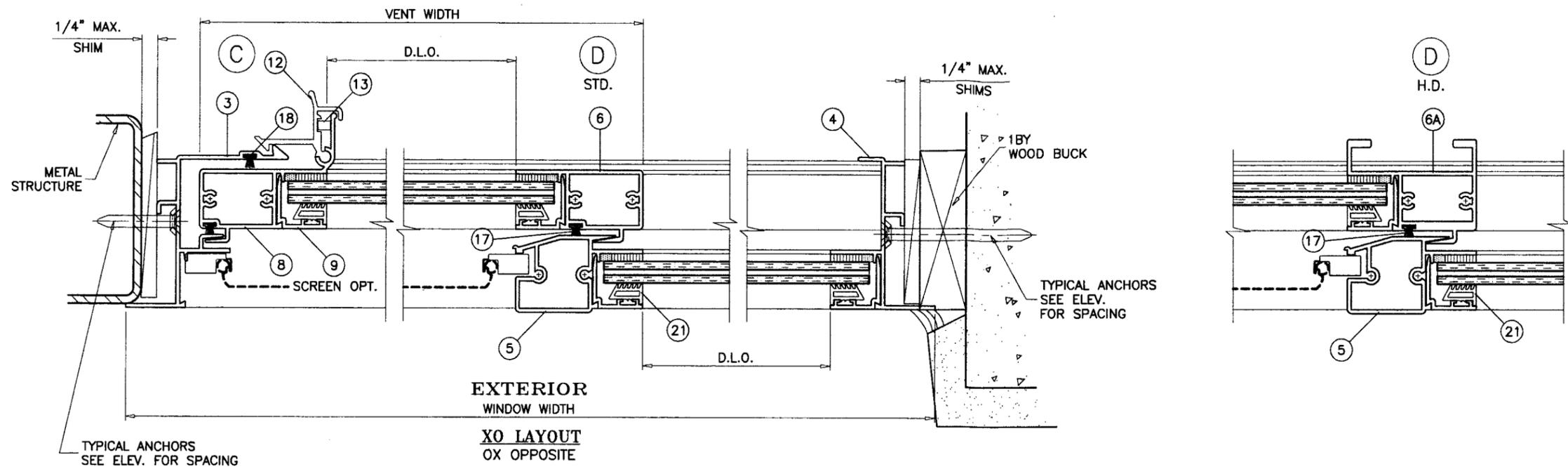
SERIES-2000 ALUM HORIZ. SLIDING WDW. (L.M.I.)
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revisions:	no	date	by	description
	D	05.12.08		GENERAL REVISION

date: 08-27-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
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sheet 5 of 8



Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
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MAY 16 2008

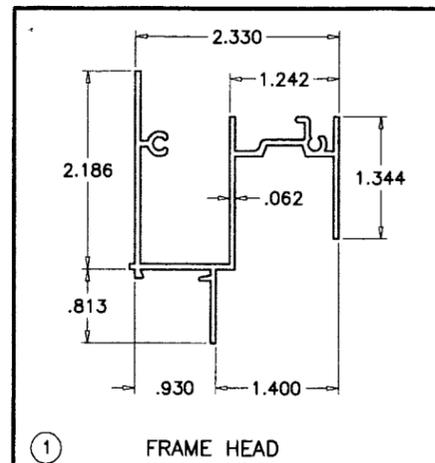
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By *Mauro Seres*
Miami-Dade Product Control
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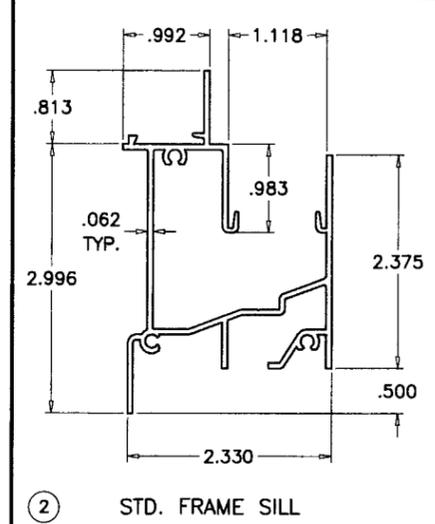
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A	09.29.03	NO CHANGE THIS SHEET
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C	09.21.07	NO CHANGE THIS SHEET
D	05.12.08	GENERAL REVISION

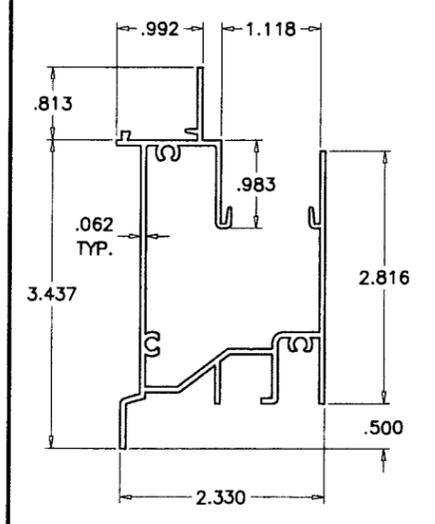
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dr. by: HAMID
chk. by:
drawing no. W03-75
sheet 6 of 8



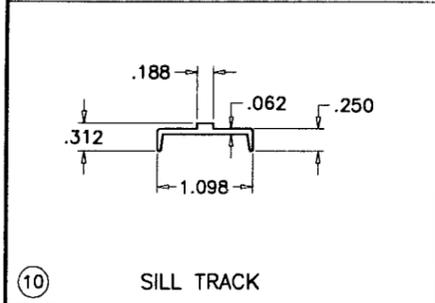
① FRAME HEAD



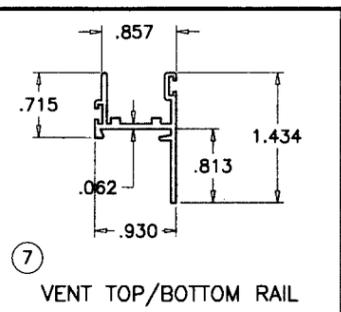
② STD. FRAME SILL



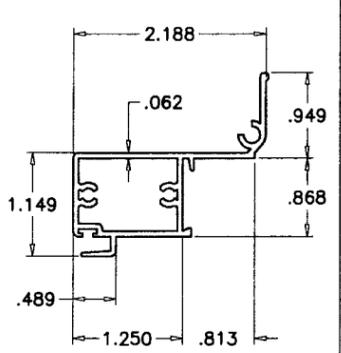
②A HI-RISE FRAME SILL



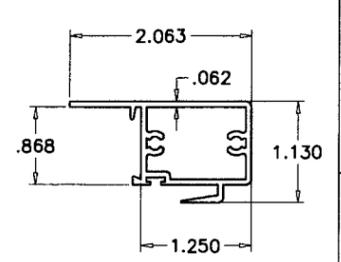
⑩ SILL TRACK



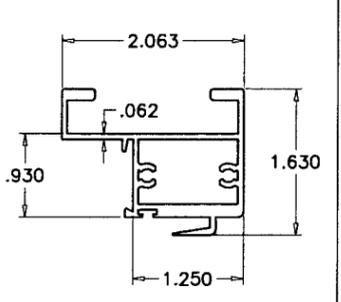
⑦ VENT TOP/BOTTOM RAIL



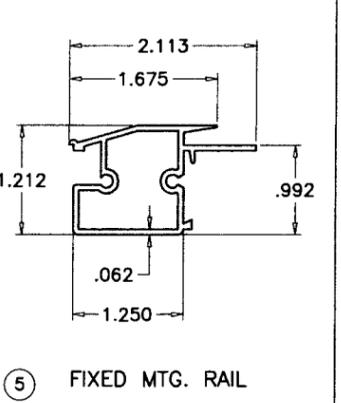
⑧ JAMB STILE



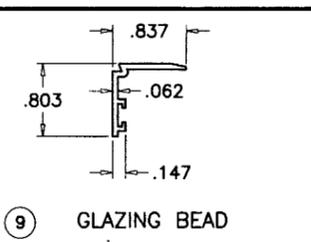
⑥ STD. MEETING RAIL



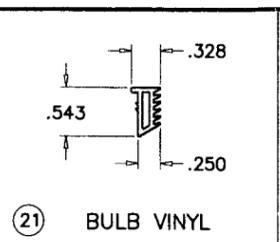
⑥A H.D. MEETING RAIL



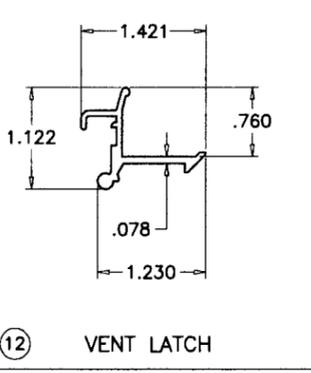
⑤ FIXED MTG. RAIL



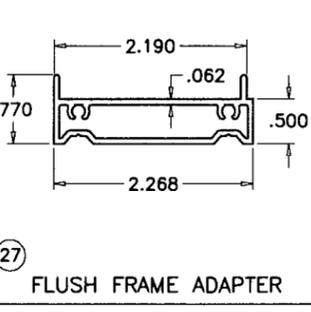
⑨ GLAZING BEAD



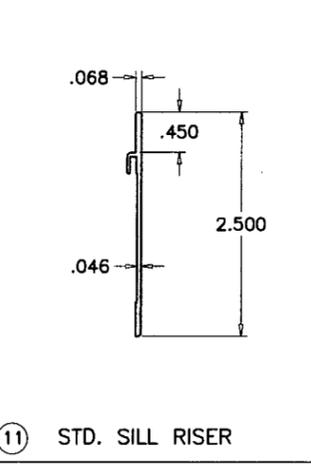
⑳ BULB VINYL



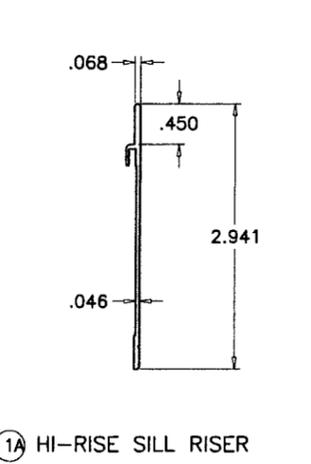
⑫ VENT LATCH



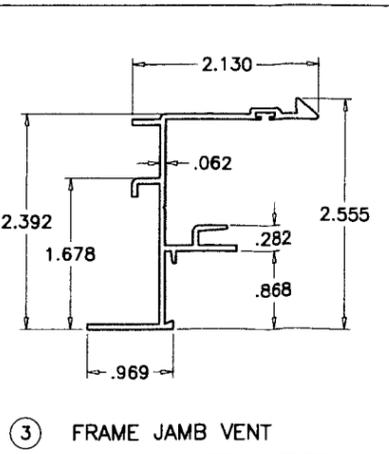
⑳ FLUSH FRAME ADAPTER



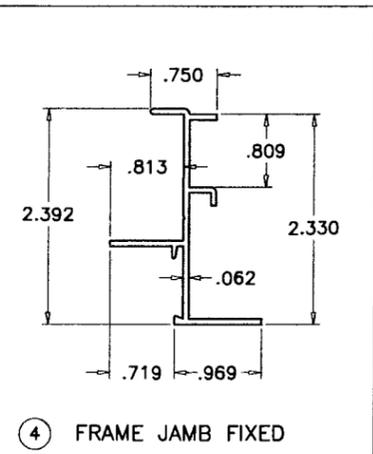
⑪ STD. SILL RISER



⑪A HI-RISE SILL RISER



③ FRAME JAMB VENT



④ FRAME JAMB FIXED

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

MAY 16 2008

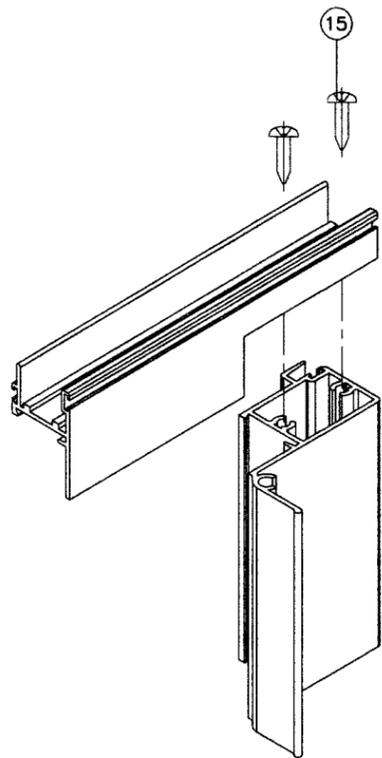
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Miami/Ohio Product Control
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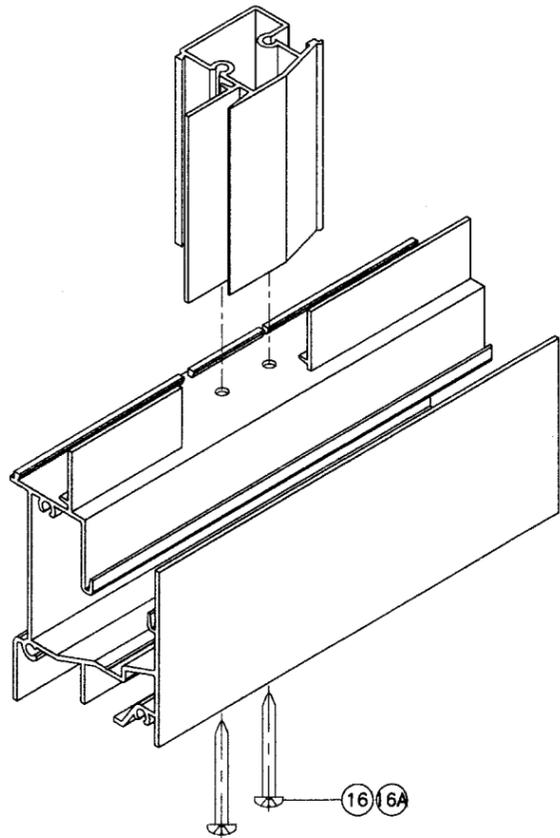
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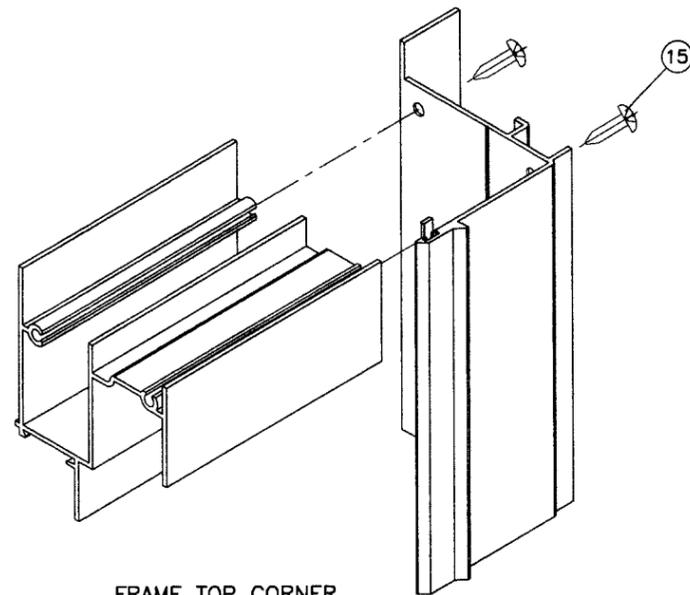
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drawing no. **W03-75**
sheet 7 of 8



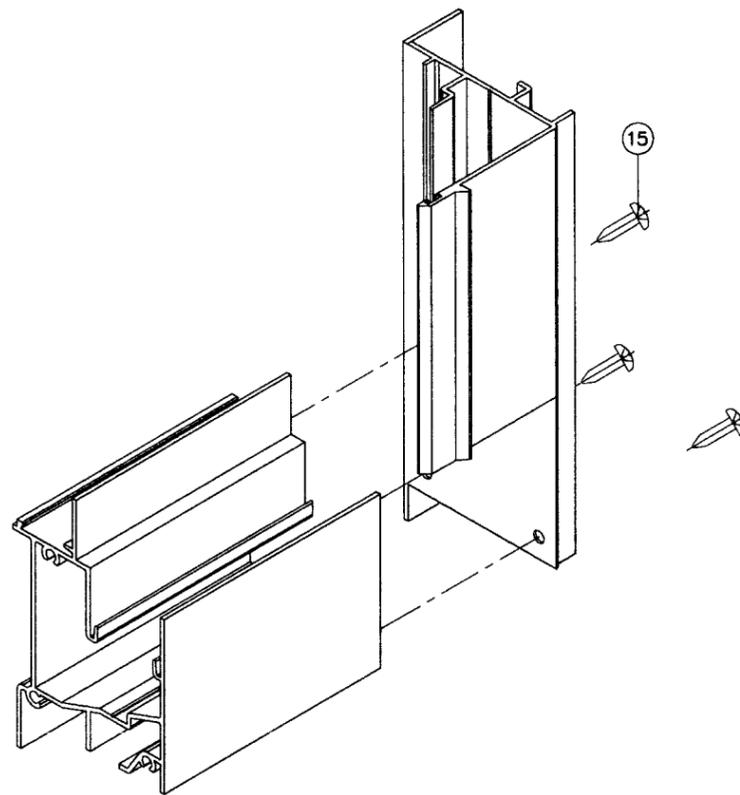
VENT TOP/BOTTOM CORNERS



FIXED MTG. RAIL CORNER



FRAME TOP CORNER



FRAME BOTTOM CORNER

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-0527-13
Expiration Date Nov. 6, 2013
by *Maunel Perry*
Miami Dade Product Control
Division

MAY 16 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
COMP -ANL\W03-75ES

SERIES-2000 ALUM HORIZ. SLIDING WDW. (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
D	05.12.08 GENERAL REVISION

date: 08-27-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-75
sheet 8 of 8