



**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) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

**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 2000/2050 Aluminum Horizontal Sliding Window- L.M.I.

APPROVAL DOCUMENT: Drawing No. W03-75, titled "Series-2000/2050 Alum. Horiz. Sliding Wdw. (L.M.I)", sheets 1 through 9 of 9, prepared by Al-Farooq Corporation, dated 08/27/03 with revision "E" on 06/25/09, signed and sealed by Arshad Viqar, 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", 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 NOA # 08-0527.13 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. 09-1008.06
Expiration Date: November 06, 2013
Approval Date: December 23, 2009
Page 1**

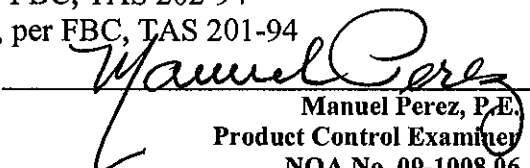
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W03-75**, titled "Series-2000/2050 Alum. Horiz. Sliding Wdw. (L.M.I)" Sheets 1 through 9 of 9, prepared by Al-Farooq Corporation, dated 08/27/03 with revision "**E**", dated 06/25/09, signed and sealed by Arshad Viqar, 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 202-94
along with marked-up drawings and installation diagram of a series 210 horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5811**, dated 02/16/09, signed and sealed by Michael R. Wenzel, 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 202-94
along 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 12/20/07, signed and sealed by Carlos S. Rionda, P. E.
(Submitted under previous NOA #08-0527.13)
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, TAS 202-94
along 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)
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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-1008.06
Expiration Date: November 06, 2013
Approval Date: December 23, 2009

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4.
 - 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-3809**, dated 06/16/03, signed and sealed by Joseph Chan, P. E.
(Submitted under previous NOA #03-0910.02)
5. 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-2007, prepared by Al-Farooq Corporation, dated 07/30/09, signed and sealed by Arshad Viqar, P.E.
Complies with ASTM E1300-02/04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

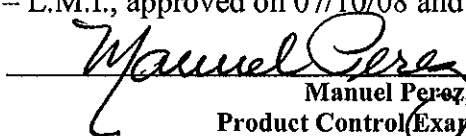
1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **09-0312.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 05/13/09, expiring on 12/11/10.

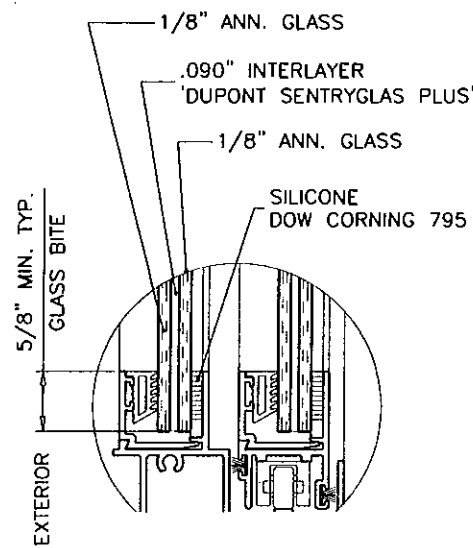
F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated August 5, 2009 signed and sealed by Arshad Viqar, P.E.

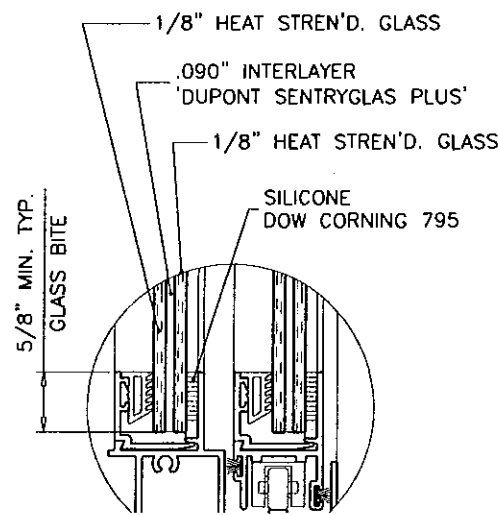
G. OTHERS

1. Notice of Acceptance No. **08-0527.13**, issued to ES Windows LLC for their Series 2000 Aluminum Horizontal Sliding Window – L.M.I., approved on 07/10/08 and expiring on 11/06/13.

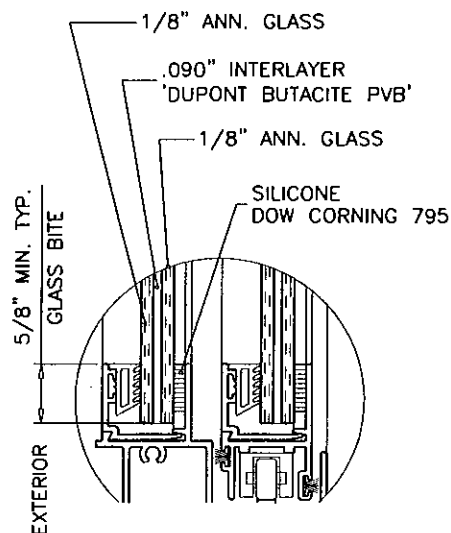

Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-1008.06
Expiration Date: November 06, 2013
Approval Date: December 23, 2009



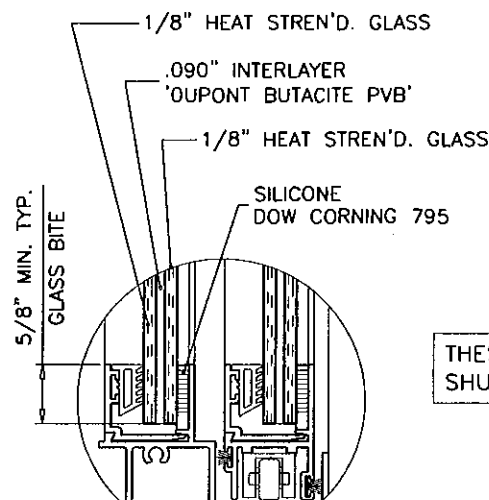
GLASS TYPE 'A'



GLASS TYPE 'A1'

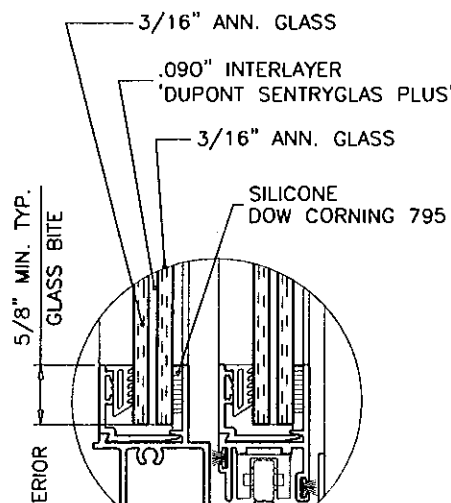


GLASS TYPE 'B'

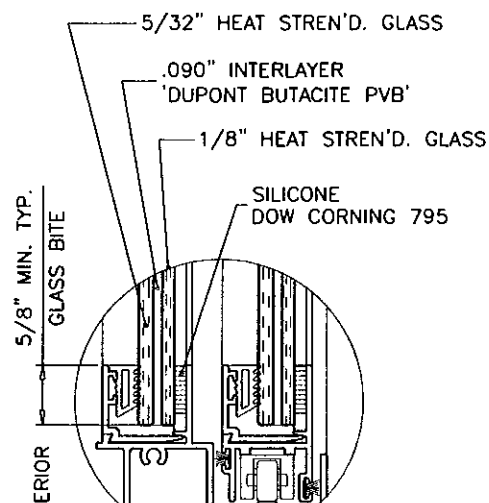


GLASS TYPE 'B1'

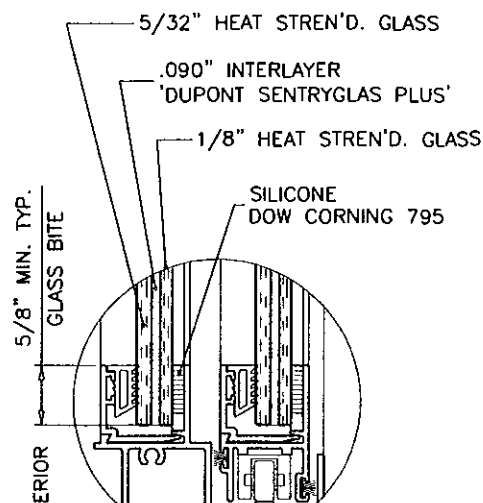
THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.



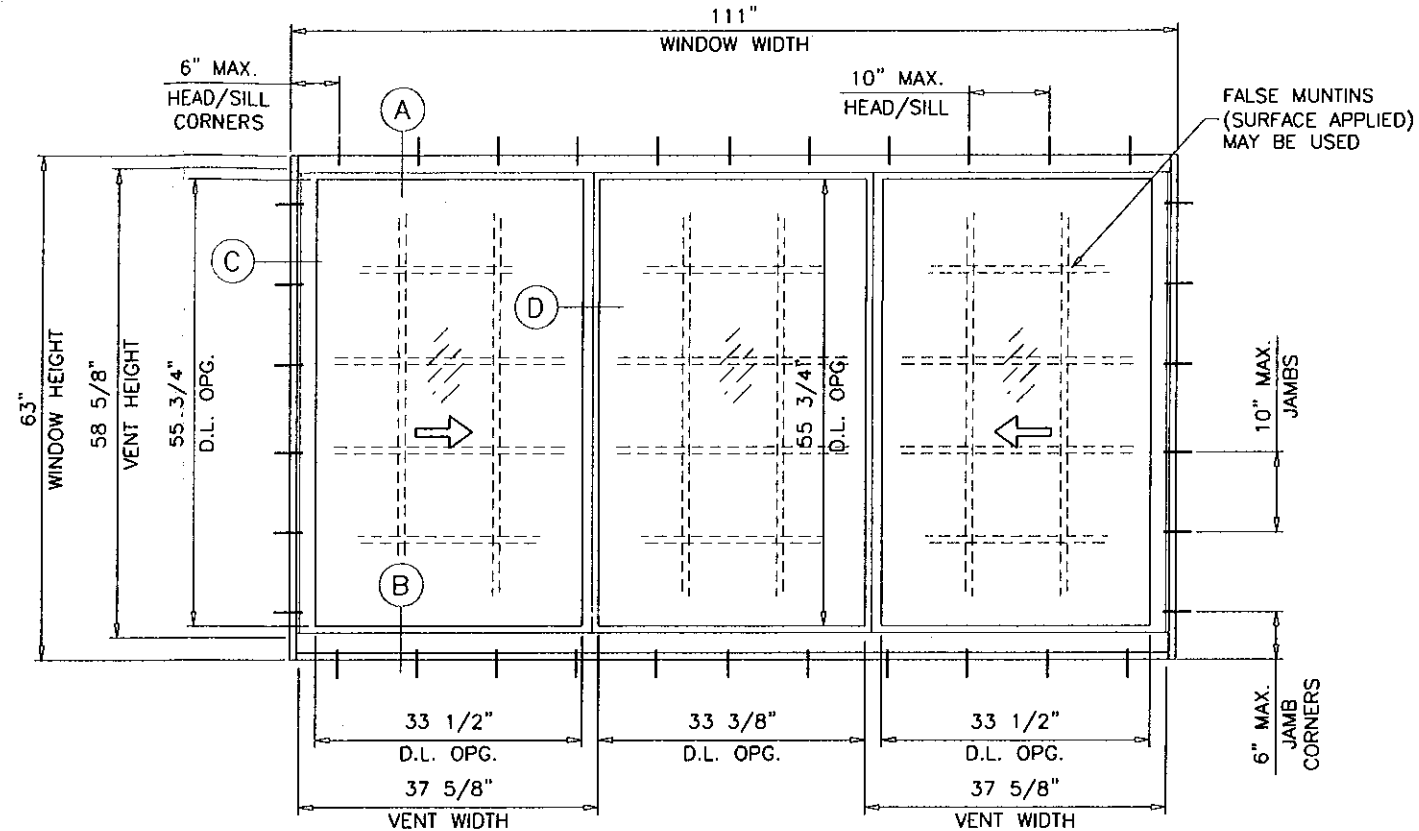
GLASS TYPE 'C'



GLASS TYPE 'D'



GLASS TYPE 'E'



TYPICAL ELEVATION

SERIES 2000

SERIES-2000/2050 ALUM HORIZ. SLIDING WINDOW

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

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 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 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 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

LAMINATED GLASS
LARGE MISSILE IMPACT

Engr: ARSHAD VIQAR
CIVIL
FLA. PE # 38863
C.A.N. 3538

SEP 14 2009

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 09-1008.06
Expiration Date NOV. 6, 2013
By: *Manuel Perez*
Miami Dade Product Control
Division

SERIES-2000/2050 ALUM HORIZ. SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

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
E	08.25.09		GENERAL REVISION

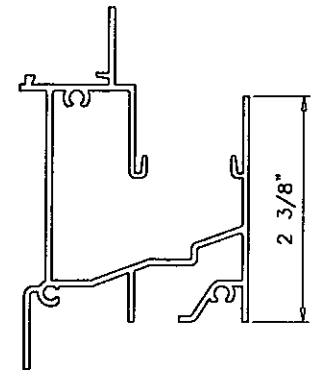
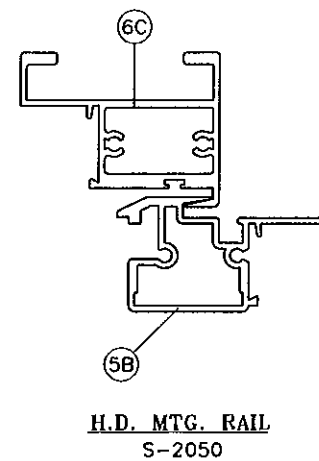
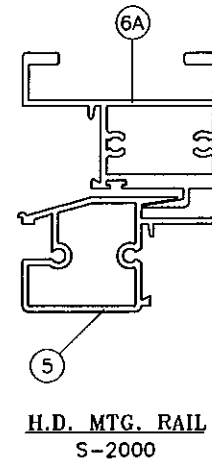
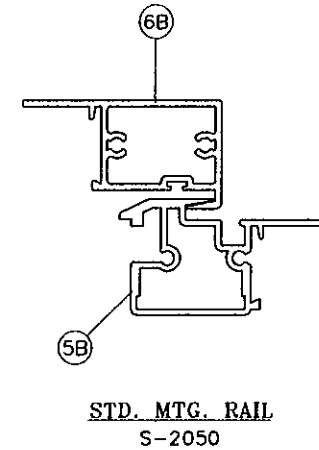
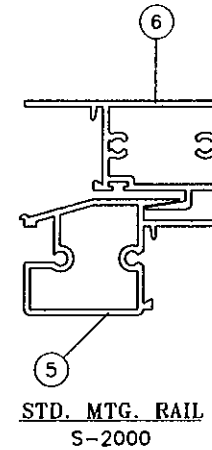
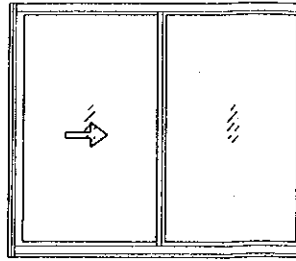
date: 08-27-03
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W03-75
sheet 1 of 9

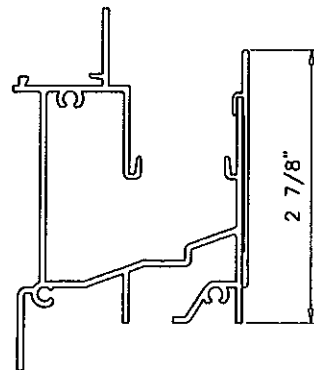
AL-FAROQQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-75ES

DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) SERIES 2000/2050										
WINDOW DIMS.		A	STD. MTG. RAIL						H.D. MTG. RAIL	
			GLASS TYPE 'A' GLASS TYPE 'B'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'D' GLASS TYPE 'E'	
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	80.0	90.0
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
53-1/8"		5	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
74"		7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
26-1/2"	38-3/8" (3)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
53-1/8"		5	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
74"		7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
26-1/2"	50-5/8" (4)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
53-1/8"		5	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
74"		7	-	-	70.0	90.0	70.0	80.0	80.0	90.0
26-1/2"	63" (5)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
37"		4	58.9	67.3	70.0	90.0	70.0	80.0	80.0	90.0
53-1/8"		5	42.6	48.7	70.0	86.6	70.0	80.0	80.0	90.0
74"		7	-	-	-	-	-	-	80.0	90.0
24"	24" (2)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
36"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
48"		5	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
60"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
72"		7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
24"	36" (3)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
36"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
48"		5	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
60"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
72"		7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
24"	48" (4)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
36"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
48"		5	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
60"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
72"		7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
24"	60" (5)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
36"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
48"		5	54.2	61.9	70.0	90.0	70.0	80.0	80.0	90.0
60"		6	45.1	51.5	70.0	87.3	70.0	80.0	80.0	90.0
72"		7	-	-	70.0	78.7	70.0	78.7	80.0	90.0

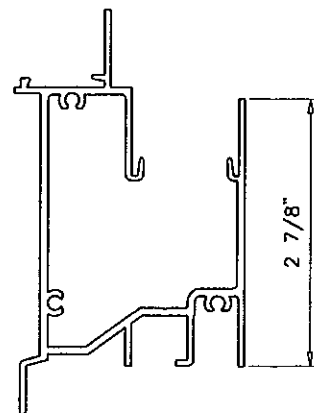
A = NO. OF ANCHORS PER HEAD & SILL
() = NO. OF ANCHORS PER JAMB



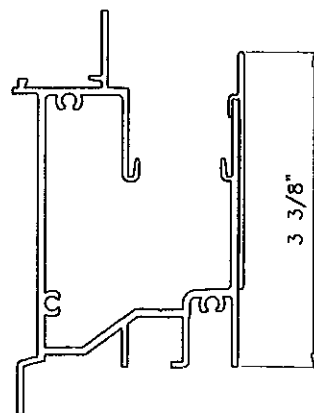
STD. SILL WITHOUT RISER
LIMIT EXT.(+) LOADS TO 53.3 PSF



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

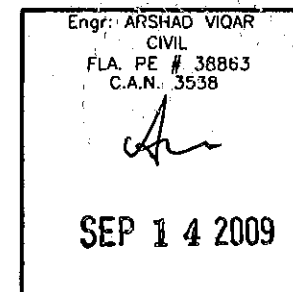


HI-RISE SILL WITHOUT RISER
LIMIT EXT.(+) LOADS TO 67.5 PSF



HI-RISE SILL WITH RISER
LIMIT EXT.(+) LOADS TO 80.0 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



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-1008.06
Expiration Date Nov. 6, 2013
By: *Manuel Pires*
Miami/Al-Farooq Product Control
Division

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-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

no.	date	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
E	08.25.09	GENERAL REVISION

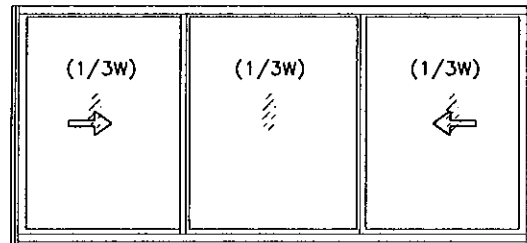
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dr. by: HAMID
chk. by:

SEP 14 2009

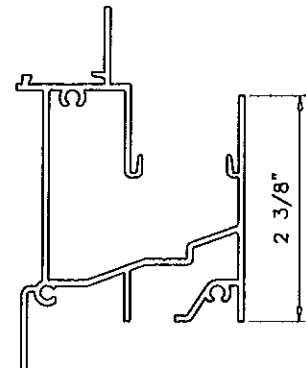
drawing no.
W03-75
sheet 2 of 9

DESIGN LOAD CAPACITY - PSF (XOX SIZES) SERIES 2000/2050										
WINDOW DIMS. WIDTH HEIGHT		A	STD. MTG. RAIL						H.D. MTG. RAIL	
			GLASS TYPE 'A' GLASS TYPE 'B'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'D' GLASS TYPE 'E'	
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74" 106-1/4" 111"	26" (3)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	-	-	-	-	-	-	80.0	90.0
74" 106-1/4" 111"	38-3/8" (3)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	-	-	-	-	-	-	80.0	90.0
74" 106-1/4" 111"	50-5/8" (4)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	-	-	-	-	-	-	80.0	90.0
74" 106-1/4" 111"	63" (5)	7	45.4	51.9	70.0	90.0	70.0	80.0	80.0	90.0
		10	-	-	-	-	-	-	80.0	90.0
		10	-	-	-	-	-	-	80.0	90.0
72" 84" 96" 108"	24" (2)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
72" 84" 96" 108"	36" (3)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
72" 84" 96" 108"	48" (4)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
72" 84" 96" 108"	60" (5)	7	54.2	61.9	70.0	90.0	70.0	80.0	80.0	90.0
		8	47.6	54.4	70.0	90.0	70.0	80.0	80.0	90.0
		9	-	-	70.0	83.9	70.0	80.0	80.0	90.0
		10	-	-	70.0	78.7	70.0	78.7	80.0	90.0

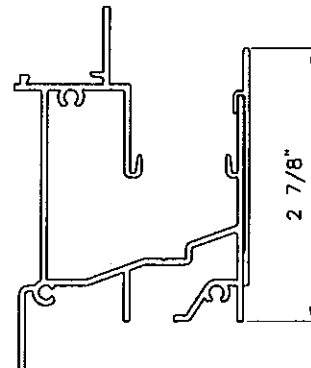
A = NO. OF ANCHORS PER HEAD & SILL
() = NO. OF ANCHORS PER JAMB



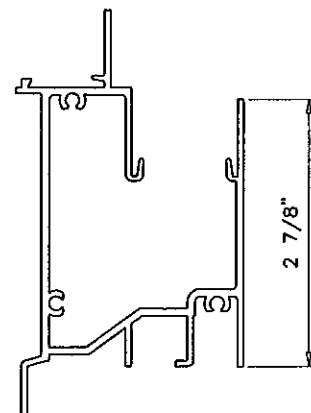
OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH



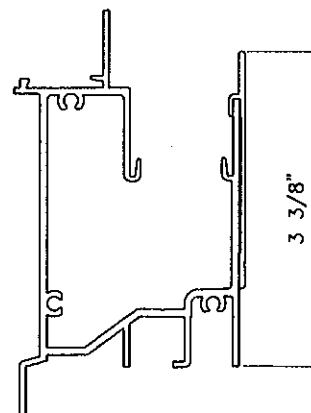
STD. SILL WITHOUT RISER
LIMIT EXT.(+) LOADS TO 53.3 PSF



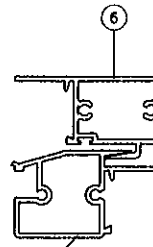
STD. SILL WITH RISER
LIMIT EXT.(+) LOADS TO 70.0 PSF



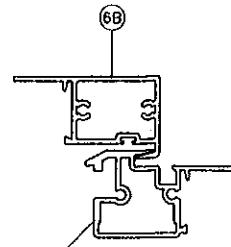
HI-RISE SILL WITHOUT RISER
LIMIT EXT.(+) LOADS TO 66.7 PSF



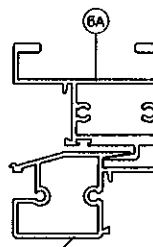
HI-RISE SILL WITH RISER
LIMIT EXT.(+) LOADS TO 80.0 PSF



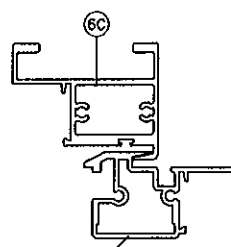
STD. MTG. RAIL
S-2000



STD. MTG. RAIL
S-2050



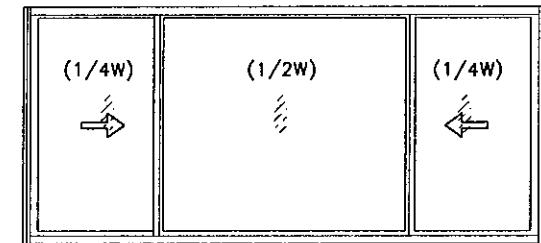
H.D. MTG. RAIL
S-2000



H.D. MTG. RAIL
S-2050

DESIGN LOAD CAPACITY - PSF (XOX SIZES) SERIES 2000/2050										
WINDOW DIMS. WIDTH HEIGHT		A	STD. MTG. RAIL						H.D. MTG. RAIL	
			GLASS TYPE 'A' GLASS TYPE 'B'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'D' GLASS TYPE 'E'	
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74" 106-1/4" 111"	26" (3)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	-	-	-	-	-	-	80.0	90.0
74" 106-1/4" 111"	38-3/8" (3)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	-	-	70.0	90.0	70.0	80.0	80.0	90.0
		10	-	-	-	-	-	-	80.0	90.0
74"	50-5/8" (4)	7	-	-	70.0	90.0	70.0	80.0	80.0	90.0
		7	-	-	-	-	-	-	80.0	90.0
74"	63" (5)	7	-	-	-	-	-	-	80.0	90.0
		7	-	-	-	-	-	-	80.0	90.0
72" 84" 96" 108"	24" (2)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
72" 84" 96" 108"	36" (3)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		10	-	-	70.0	90.0	70.0	80.0	80.0	90.0
72" 84" 96"	48" (4)	7	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0
		8	-	-	70.0	90.0	70.0	80.0	80.0	90.0
		9	-	-	-	-	-	-	80.0	90.0
72" 72"	60" (5)	7	-	-	70.0	90.0	70.0	80.0	80.0	90.0
		7	-	-	-	-	-	-	80.0	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: ARSHAD VIQAR
CIVIL
FLA. PE # 38863
C.A.N. 3538
SEP 14 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-1008.06
Expiration Date NOV. 6, 2013
By: *Maureen*
Miami Code Product Control
Division

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

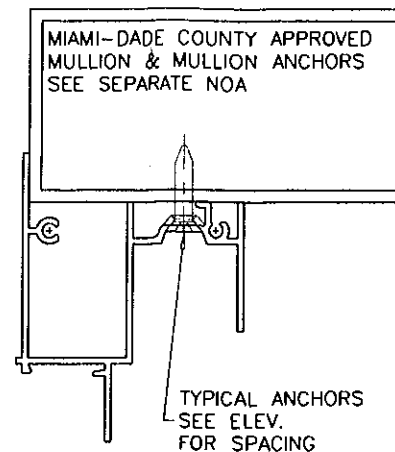
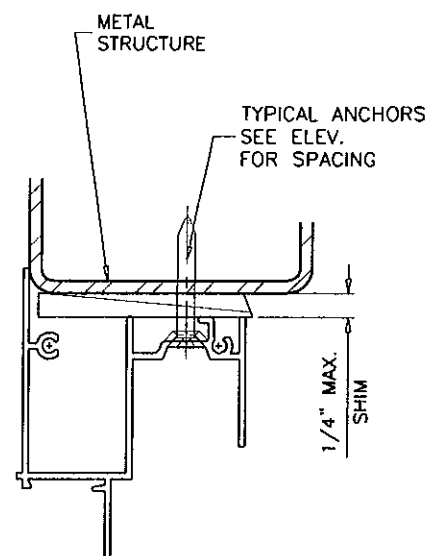
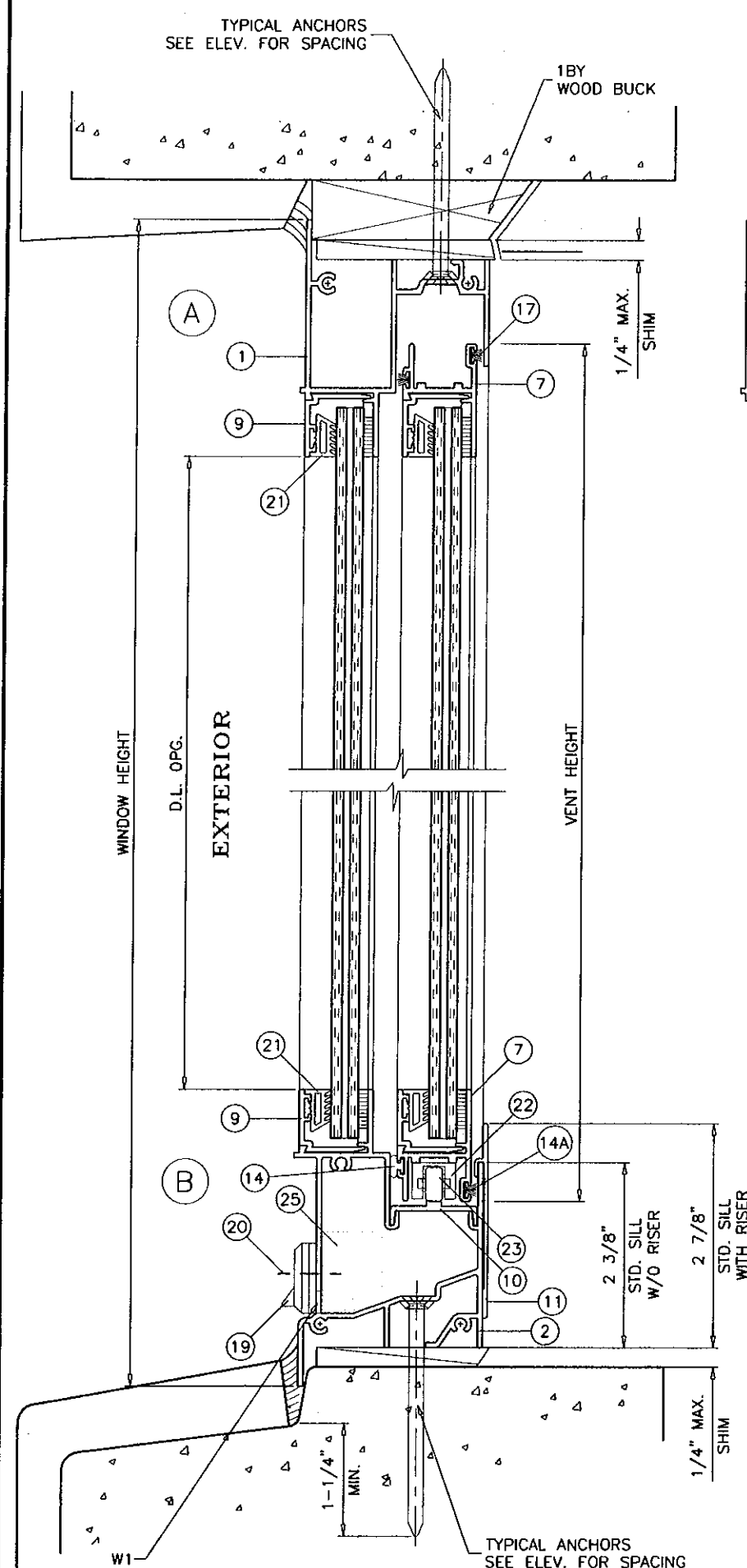
SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

no.	date	by	description
C	09.21.07		GLASS TYPE 'D' ADDED
D	05.12.08		GENERAL REVISION
E	06.25.09		GENERAL REVISION

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

drawing no.
W03-75
sheet 3 of 9



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" DIA. ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)

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 (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")

INTO METAL STRUCTURES

STEEL : 12 GA. MIN. ($F_y = 36$ 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 = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE $f'_c = 3000$ PSI MIN.

C-90 HOLLOW/FILLED BLOCK $f'_m = 2000$ PSI MIN.

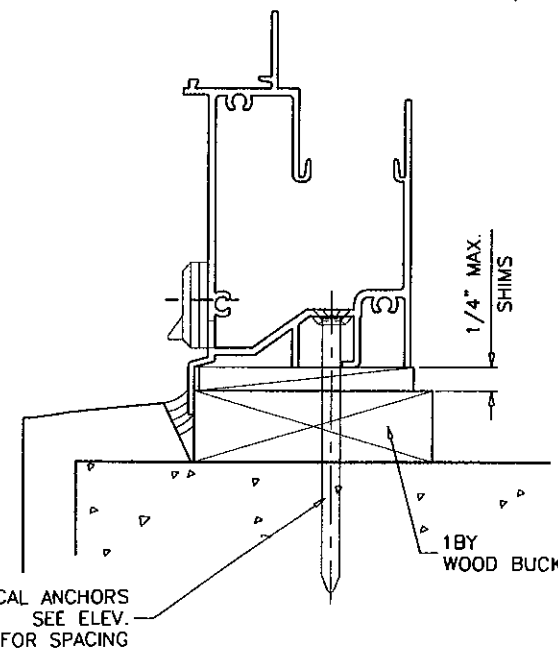
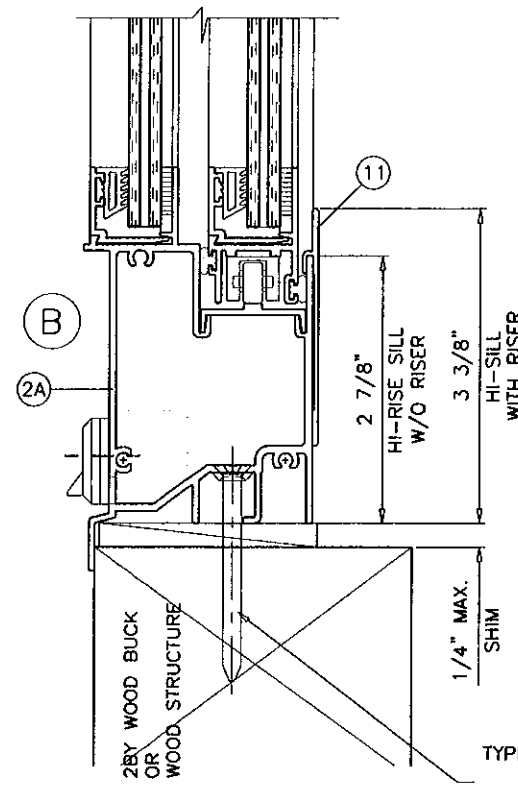
SEALANTS:

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



SERIES-2000
SERIES-2050

Engr: ARSHAD VIQAR
CIVIL
FLA. PE # 38863
C.A.N. 3538

SEP 14 2009

PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No. 09-1008.06

Expiration Date NOV. 6, 2013

By *Manuel J. [Signature]*

Miami Dade Product Control

Division

SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

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

COMP-ANL\W03-75ES

no	date	by	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	
E	06.25.09	GENERAL REVISION	

date: 08-27-03

scale: 1/2" = 1"

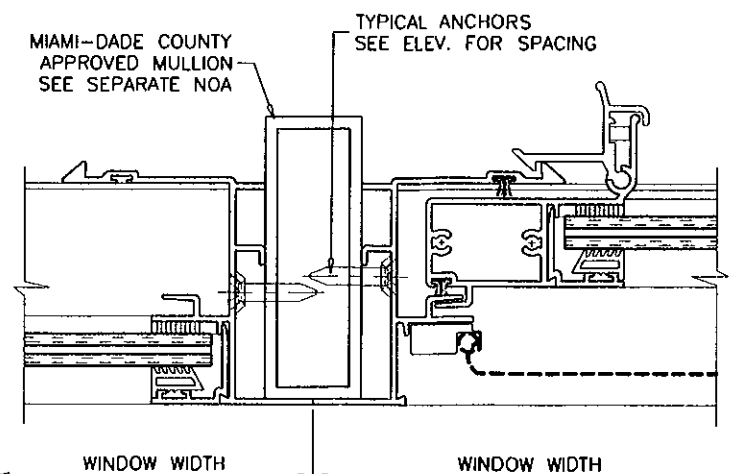
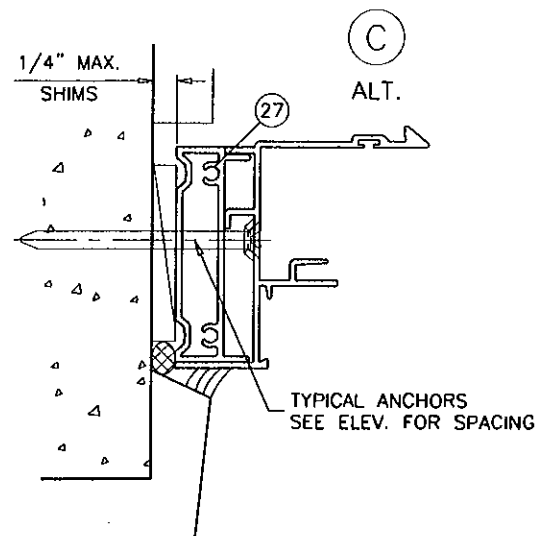
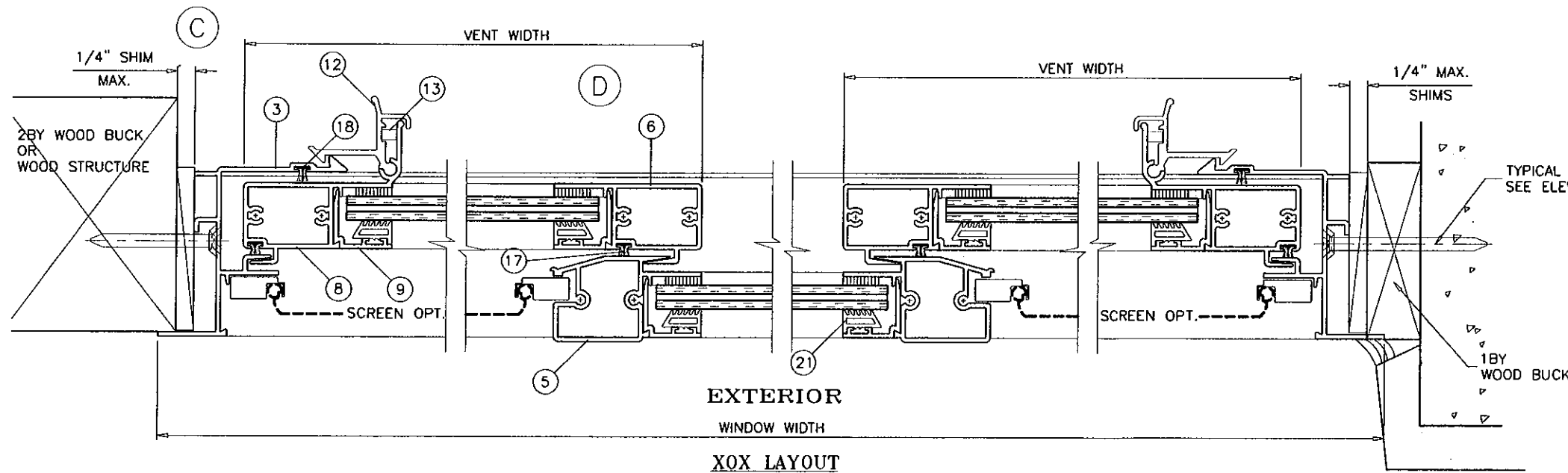
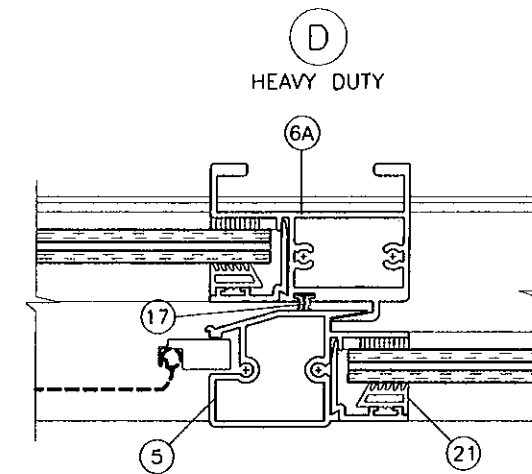
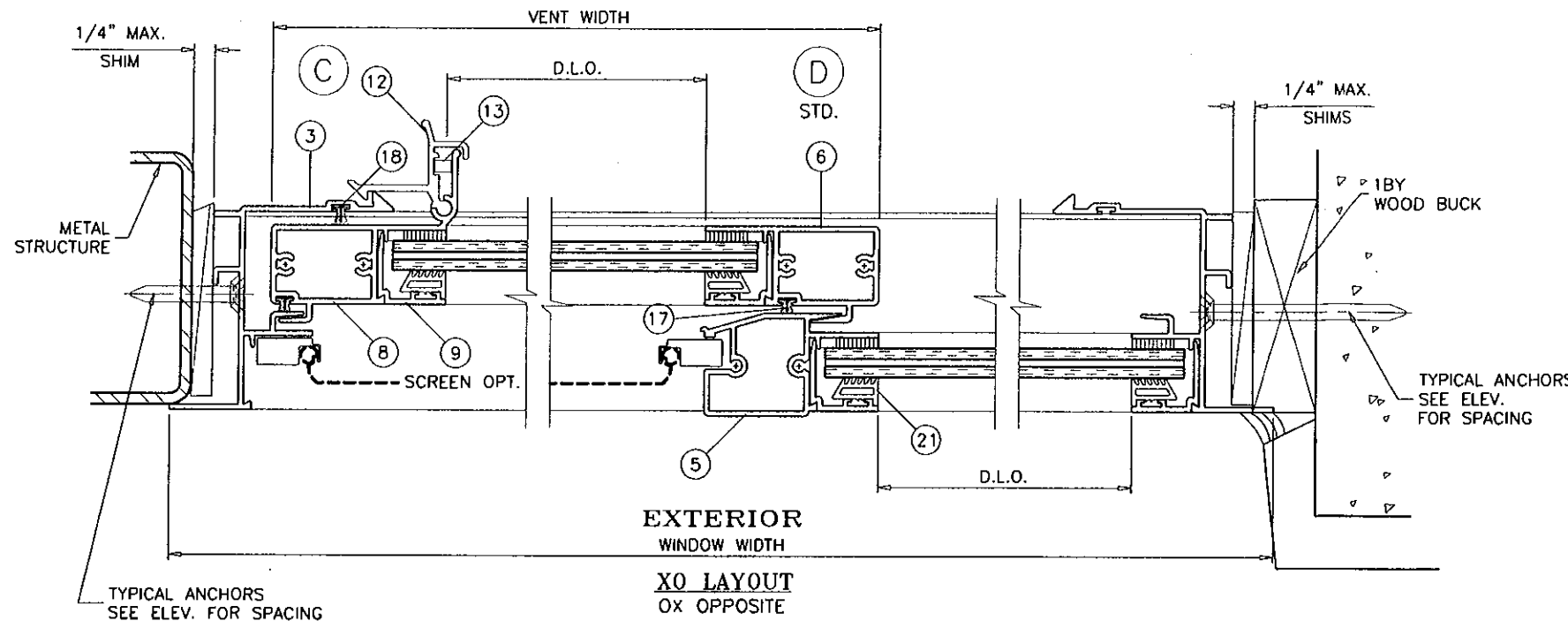
dr. by: HAMID

chk. by:

drawing no.
W03-75

sheet 4 of 9

date: 08-27-03	scale: $1/2" = 1"$	dr. by: HAMID	chk. by:
drawing no. W03-75			
sheet 5 of 9			



SERIES-2000 VENTS WITH SPRING LOADED LATCHES

Engr. ARSHAD VIQAR
CIVIL
FLA. PE # 38863
C.A.N. 3538

SEP 14 2009

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 09-1008.06
Expiration Date NOV. 16, 2013
Miami Dade Product Control
Division

SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

no	date	by	description
A	05.29.03		NO CHANGE THIS SHEET
B	05.11.06		UPDATED FOR 2004 FBC
C	09.21.07		NO CHANGE THIS SHEET
D	05.12.08		GENERAL REVISION
E	06.25.09		GENERAL REVISION

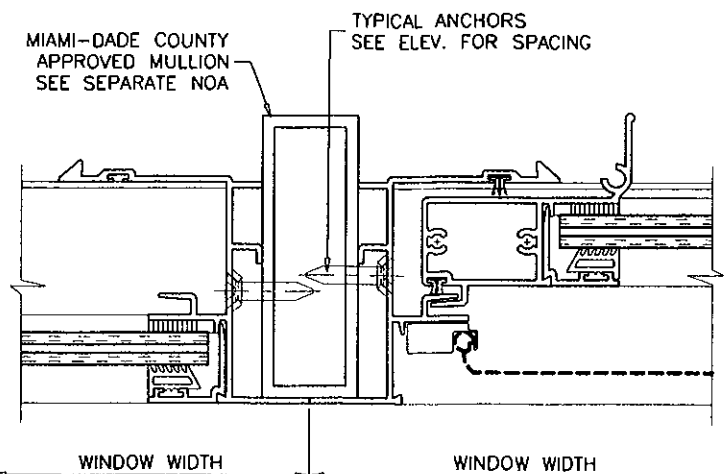
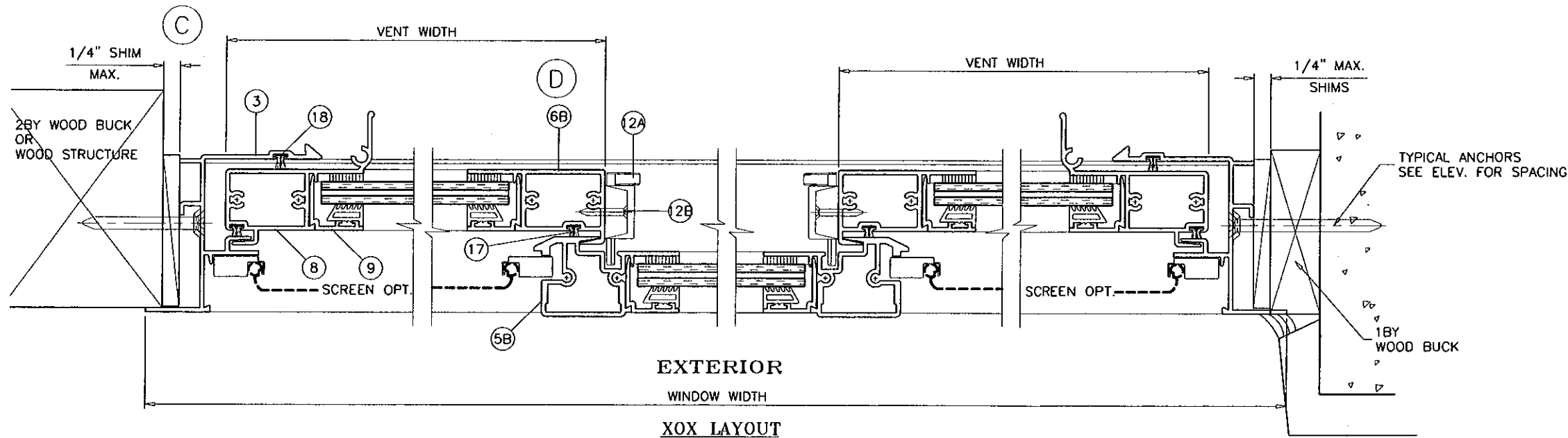
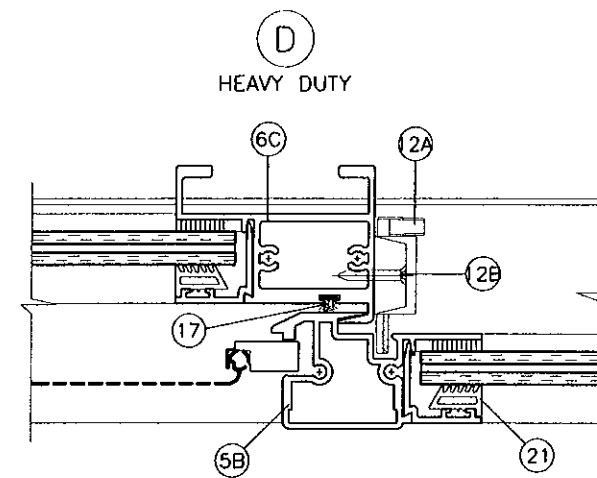
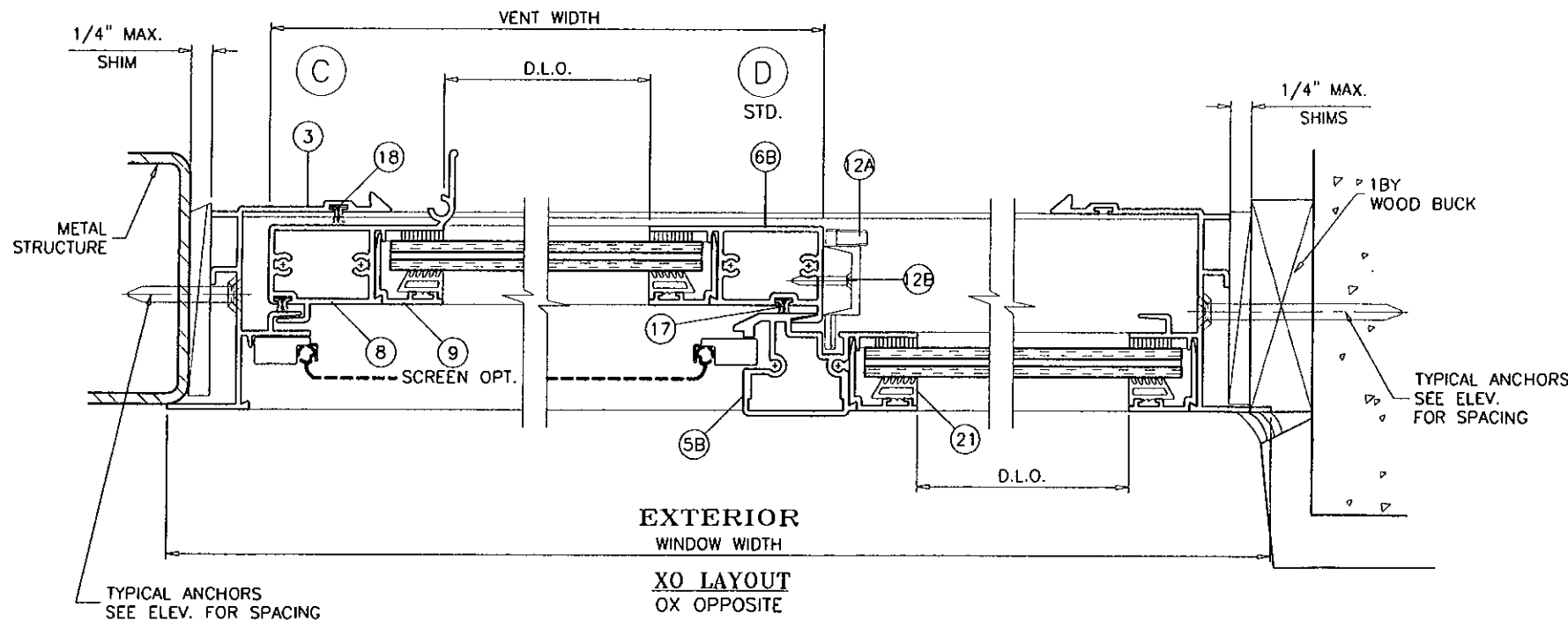
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-75

sheet 6 of 9

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-2050 VENTS WITH SWEEP LATCHES

Engr: ARSHAD VIOAR
CIVIL
FLA. PE # 38863
C.A.N. 3538

SEP 14 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-1008.06
Expiration Date NOV. 6, 2013
By: *Manuel Perez*
Miami Dade Product Control
Division

SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

no	date	by	description
A	09.29.03		NO CHANGE THIS SHEET
B	05.11.06		UPDATED FOR 2004 FBC
C	09.21.07		NO CHANGE THIS SHEET
D	05.12.08		GENERAL REVISION
E	06.25.09		GENERAL REVISION

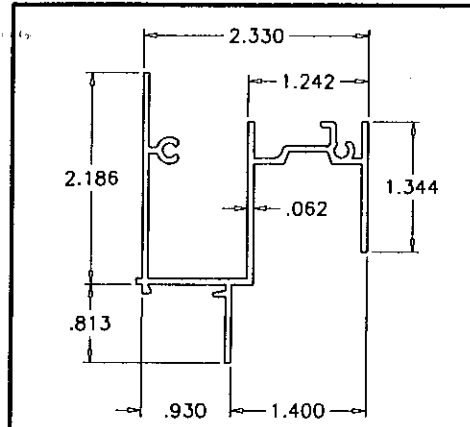
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dr. by: HAMID
chk. by:

drawing no.
W03-75

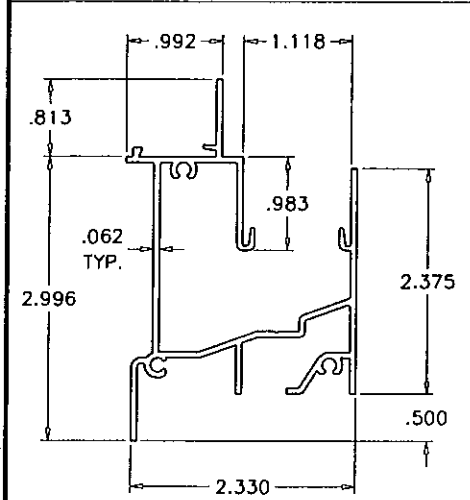
sheet 7 of 9

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

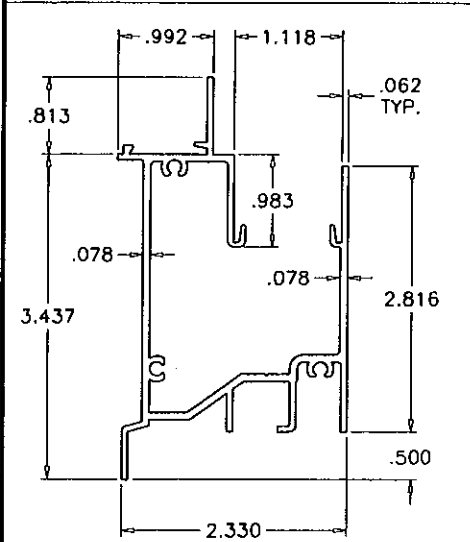
COMP-ANL\W03-75ES



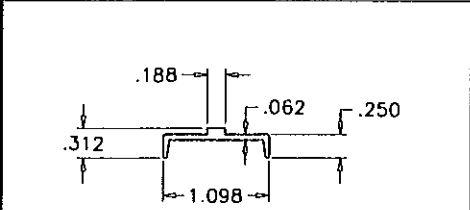
① FRAME HEAD



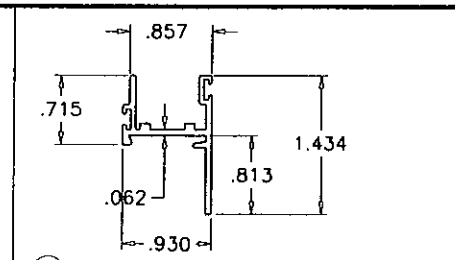
② STD. FRAME SILL



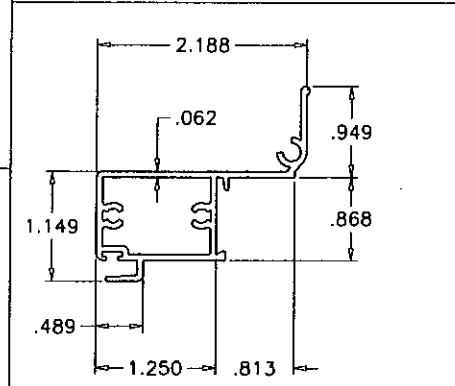
②A HI-RISE FRAME SILL



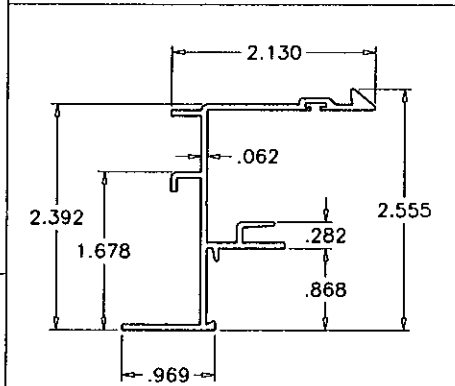
⑩ SILL TRACK



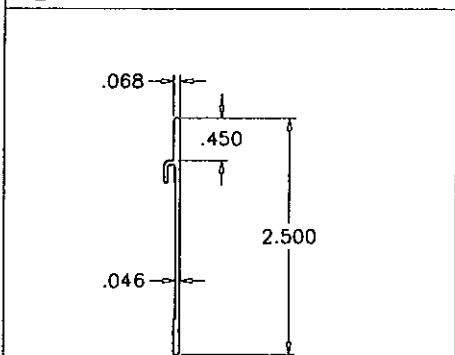
⑦ VENT TOP/BOTTOM RAIL



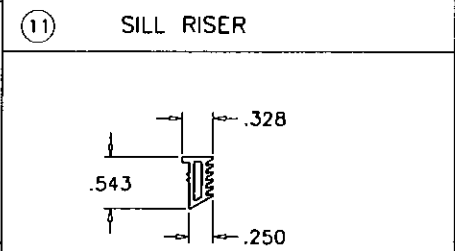
⑧ JAMB STILE



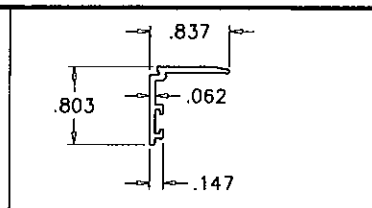
③ FRAME JAMB



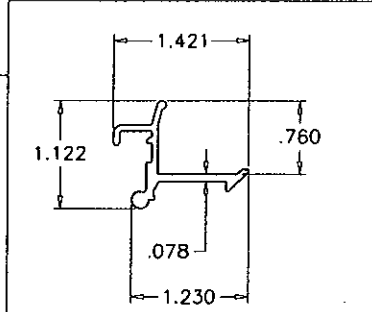
⑪ SILL RISER



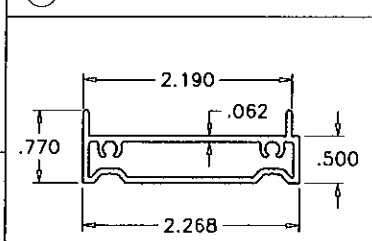
②1 BULB VINYL



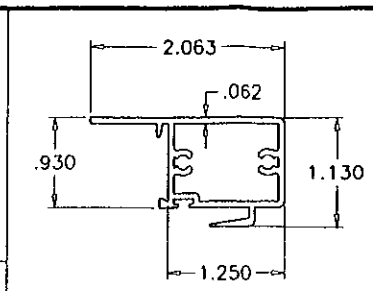
⑨ GLAZING BEAD



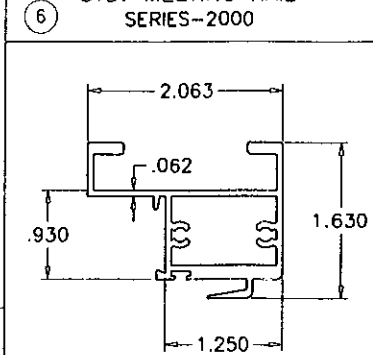
⑫ VENT LATCH



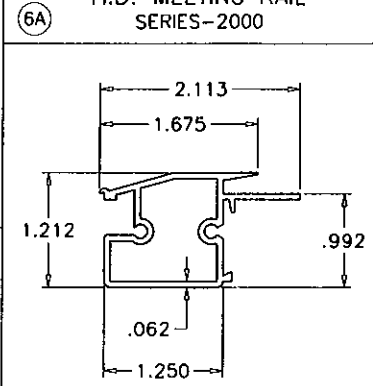
②7 FLUSH FRAME ADAPTER



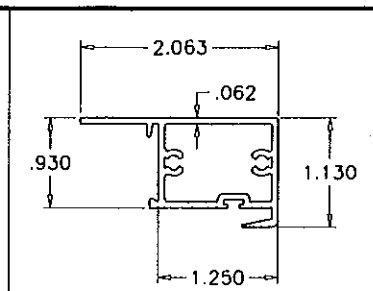
⑥ STD. MEETING RAIL SERIES-2000



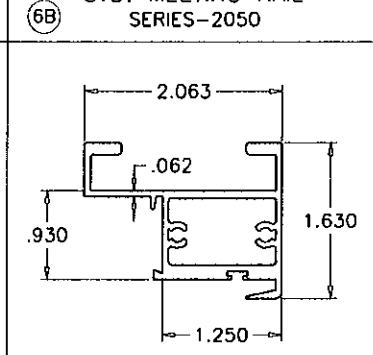
⑥A H.D. MEETING RAIL SERIES-2000



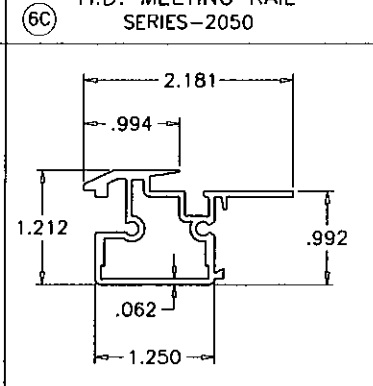
⑤ FIXED RAIL SERIES-2000



⑥B STD. MEETING RAIL SERIES-2050



⑥C H.D. MEETING RAIL SERIES-2050



⑤B FIXED RAIL SERIES-2050

Engr. ARSHAD VIQAR
CIVIL
FLA. PE # 38863
C.A.N. 3538

SEP 14 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-1008.06
Expiration Date NOV. 6, 2013
By: Manuel
Miami Bode Product Control
Division



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

SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

revisions:	
no	date by description
A	09.29.03 NO CHANGE THIS SHEET
B	05.11.06 UPDATED FOR 2004 FBC
C	09.21.07 NO CHANGE THIS SHEET
D	05.12.08 GENERAL REVISION
E	06.25.09 GENERAL REVISION

date: 08-27-03

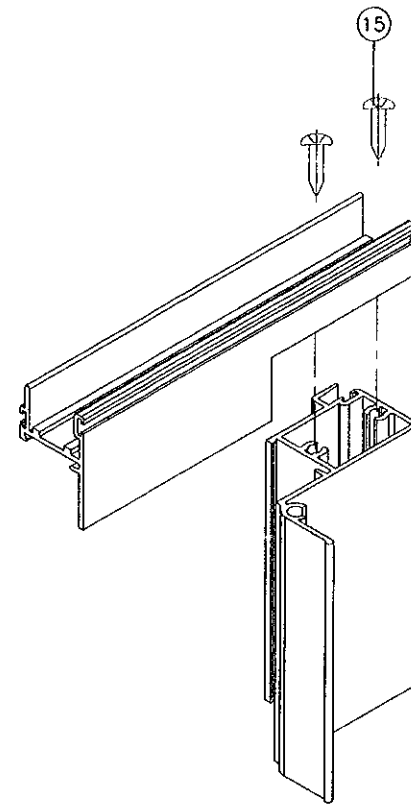
scale: 1/2" = 1"

dr. by: HAMID

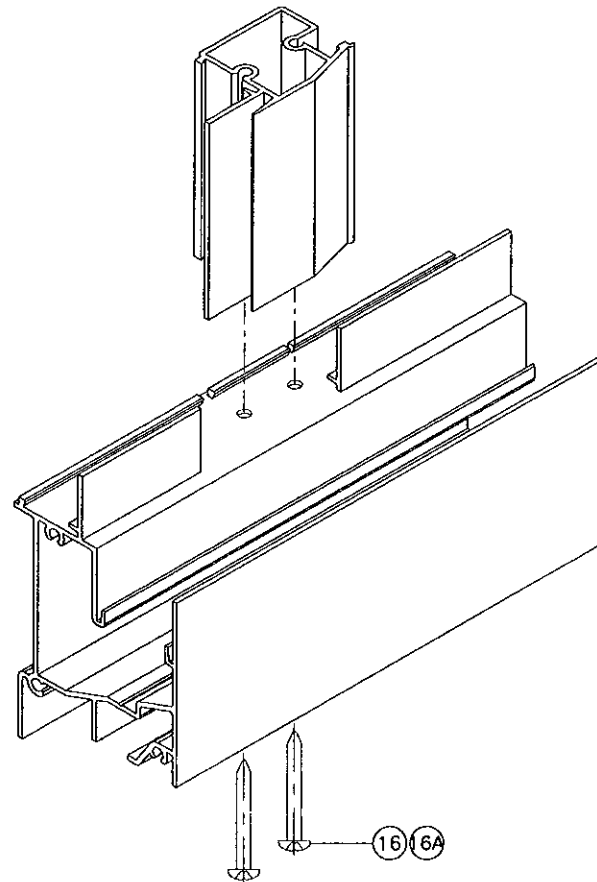
chk. by:

drawing no.
W03-75

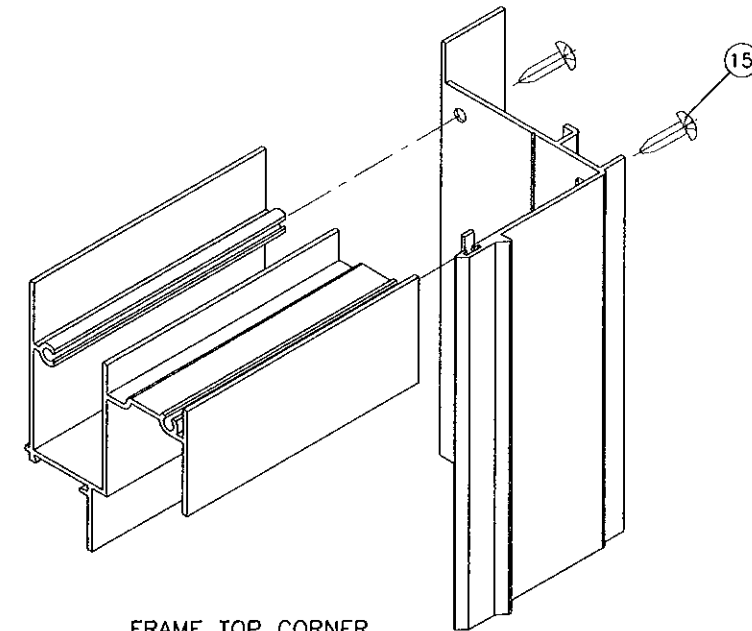
sheet 8 of 9



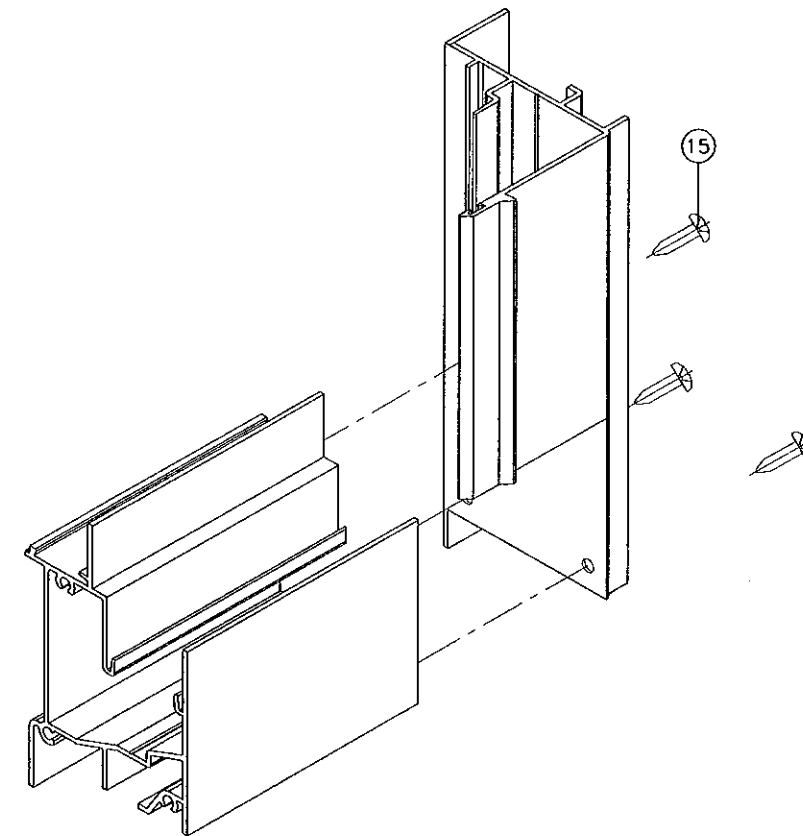
VENT TOP/BOTTOM CORNERS



FIXED MTG. RAIL CORNER



FRAME TOP CORNER



FRAME BOTTOM CORNER

Engr: ARSHAD VIQAR
CIVIL
FLA. PE # 38863
C.A.N. 3538
Ar
SEP 14 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-1008.06
Expiration Date NOV. 6, 2013
Manuel Perez
Miami Code Product Control
Division

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

a f c
COMP-ANL\W03-75ES

SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
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revisions:		no	date	by	description
D	05.12.08				GENERAL REVISION
E	06.25.09				GENERAL REVISION

date: 08-27-03
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chk. by:

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W03-75
sheet 9 of 9