



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

Atrium Florida, Inc.
PO Box 6429
Jacksonville, FL 32254

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 "MPSH" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W01-81**, titled "Series MPSH Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 12/26/01 with revision B dated 02/02/07, 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", 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 # **02-0128.06** 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 07-0306.02
Expiration Date: March 14, 2012
Approval Date: May 3, 2007
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

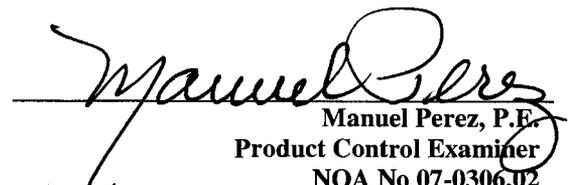
1. Manufacturer's die drawings and sections.
2. Drawing No **W01-81**, Sheets 1 through 7 of 7, titled Series MPSH Alum. Single Hung Wdw. (L.M.I.), prepared by Al Farooq Corporation, dated 12/26/01 with revision B dated 02/07/07, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Large Missile Impact Test per SFBC, PA 201-94
 - 5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
 - 6) Forced Entry Test, per AAMA 1302.5-1976 and PA 202-94along with marked-up drawings and installation diagram of aluminum single hung windows OX configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3068**, dated 05/14/01, signed and sealed by Luis Antonio Figueredo, P.E. (*Submitted under previous NOA #02-0128.06*)
2. Test reports on:
 - 1) Large Missile Impact Test per SFBC, PA 201-94
 - 2) Cyclic Wind Pressure Loading per SFBC, PA 203-94along with marked-up drawings and installation diagram of aluminum single hung windows OX configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3253**, dated 11/08/01, signed and sealed by Luis Antonio Figueredo, P.E. (*Submitted under previous NOA #02-0128.06*)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 02/06/07, signed and sealed by Humayoun Farooq, P.E.
Complies with ASTM E1300-02
2. Anchor Calculations and Comparative Analysis for Series "MPSH" aluminum single hung window prepared by Al Farooq Corporation, dated December 24, 2001, signed and sealed by Humayoun Farooq, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No 07-0306.02
Expiration Date: March 14, 2012
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Atrium Florida, Inc.

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D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

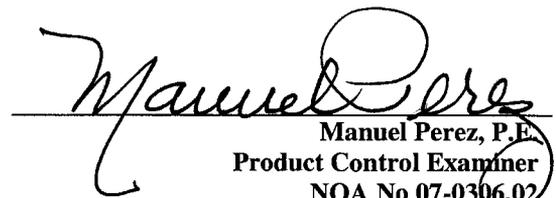
1. Notice of Acceptance No. **05-1208.02** issued to E.I. Dupont DeNemours for "DuPont Butacite PVB Interlayer" dated 01/55/06, expiring on 12/11/10.
2. Notice of Acceptance No. **03-0421.01** issued to Solutia, Inc. for "Saflex HP a polyvinyl butyral interlayer for lamination of glass" dated 05/22/03, expiring on 04/14/08.
3. Notice of Acceptance No. **03-0317.01** issued to Cardinal LG for their "Cardinal Laminated Glass Sea-Storm Type B" dated 05/15/03, expiring on 12/30/07.

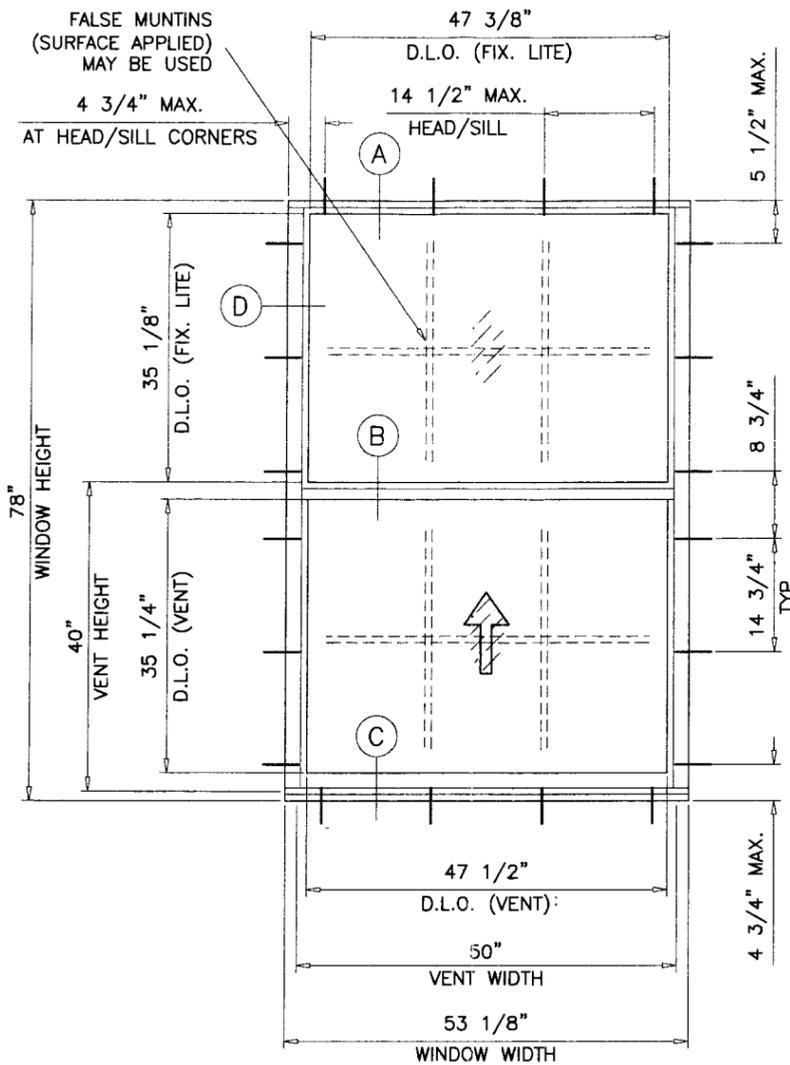
F. STATEMENTS

1. Statement letter of conformance, dated February 6, 2007, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated February 6, 2007, signed and sealed by Humayoun Farooq, P.E.

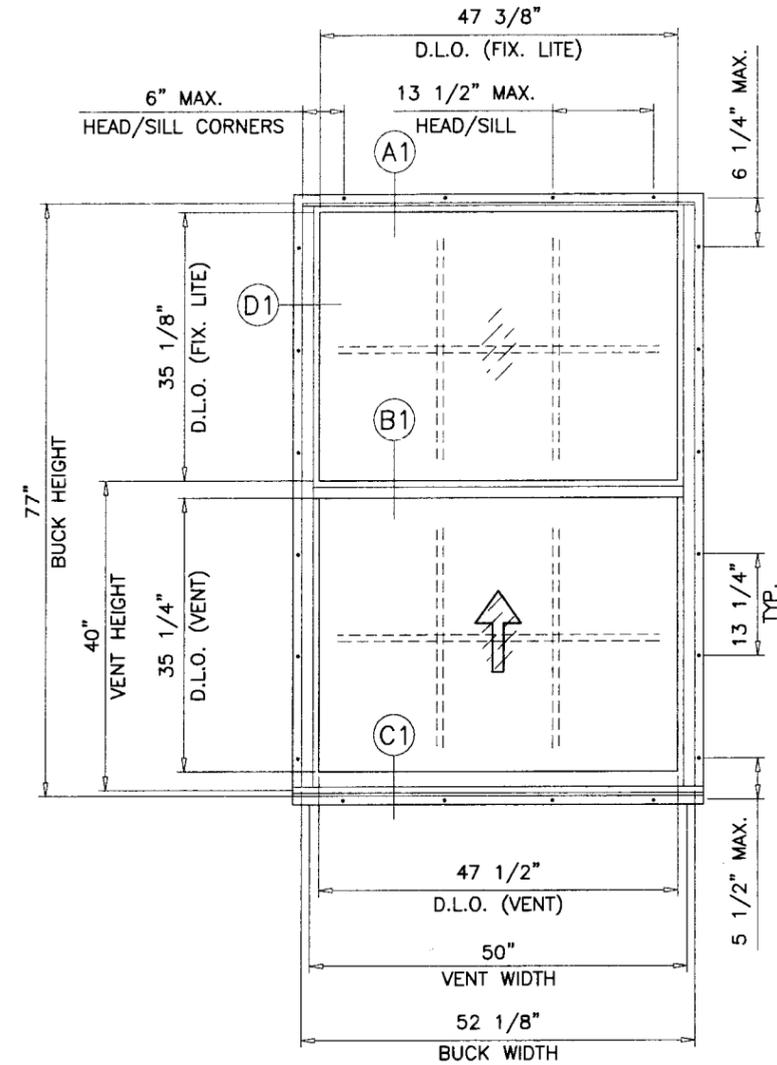
G. OTHER

1. Notice of Acceptance No. **02-0128.06**, issued to Kinko, Limited for their Series "MPSH-41" Aluminum Single Hung Window – Impact Resistant, approved on 03/14/02 and expiring on 03/14/07.


Manuel Perez, P.E.
Product Control Examiner
NOA No 07-0306.02
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FLANGE FRAME



FIN FRAME

TYPICAL ELEVATION
TESTED UNITS

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

SERIES MP SH ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING HVHZ 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 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS AND EXISTING STRUCTURE 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.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538
FEB 16 2007

PRODUCT REVISED
in complying with the Florida
Building Code
Acceptance No 07-0306-02
Expiration Date MARCH 14, 2011
By *Manuel Serez*
Miami Dade Product Contr.
Division

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\W01-81KL

SERIES MP SH ALUM SINGLE HUNG WDW. (L.M.I.)
TRIUM FLORIDA, INC.
3600 PORT JACKSONVILLE PARKWAY
JACKSONVILLE, FL. 32226
TEL. (904) 355-1476 FAX. (904) 353-0689

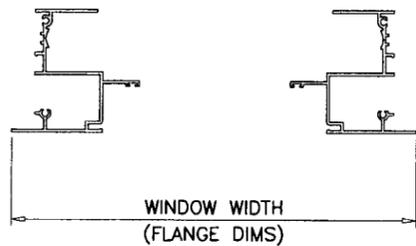
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B	02.07.07	UPDATED FOR 2004 FBC	

date: 12-26-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W01-81
sheet 1 of 7

FLANGE FRAME WINDOWS				
DESIGN LOAD CAPACITY - PSF				
FLANGE DIMS.		GLASS TYPES 'A' 'B' 'C' OR 'D'		
WIDTH	HEIGHT	EXT.(+)	INT.(-)	
19-1/8"	26"	70.0	70.0	
26-1/2"		70.0	70.0	
37"		(4)	70.0	70.0
53-1/8"		70.0	70.0	
19-1/8"	38-3/8"	70.0	70.0	
26-1/2"		70.0	70.0	
37"		(4)	70.0	70.0
53-1/8"		70.0	70.0	
19-1/8"	50-5/8"	70.0	70.0	
26-1/2"		70.0	70.0	
37"		(4)	70.0	70.0
53-1/8"		70.0	70.0	
19-1/8"	58"	70.0	70.0	
26-1/2"		70.0	70.0	
37"		(6)	70.0	70.0
53-1/8"		70.0	70.0	
19-1/8"	63"	70.0	70.0	
26-1/2"		70.0	70.0	
37"		(6)	70.0	70.0
53-1/8"		70.0	70.0	
19-1/8"	72"	70.0	70.0	
26-1/2"		70.0	70.0	
37"		(6)	70.0	70.0
53-1/8"		70.0	70.0	
19-1/8"	78"	70.0	70.0	
26-1/2"		70.0	70.0	
37"		(6)	70.0	70.0
53-1/8"		70.0	70.0	

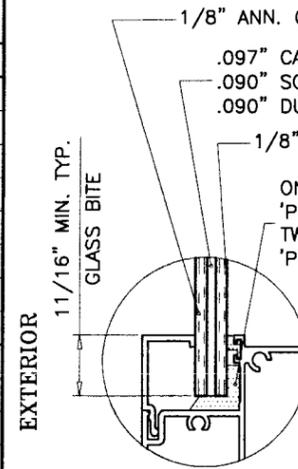
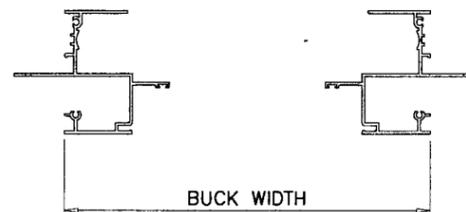
* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



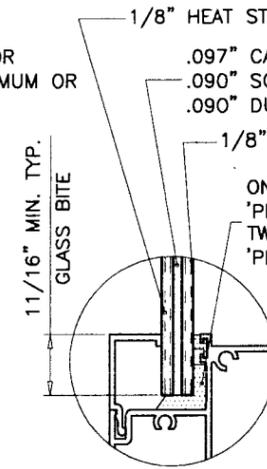
FIN FRAME WINDOWS				
DESIGN LOAD CAPACITY - PSF				
BUCK DIMS.		GLASS TYPES 'A' 'B' 'C' OR 'D'		
WIDTH	HEIGHT	EXT.(+)	INT.(-)	
24"	28"	70.0	70.0	
28"		70.0	70.0	
32"		70.0	70.0	
36"		70.0	70.0	
40"		(3)	70.0	70.0
44"		70.0	70.0	
48"		70.0	70.0	
52"		70.0	70.0	
24"	36"	70.0	70.0	
28"		70.0	70.0	
32"		70.0	70.0	
36"		70.0	70.0	
40"		(3)	70.0	70.0
44"		70.0	70.0	
48"		70.0	70.0	
52"		70.0	70.0	
24"	44"	70.0	70.0	
28"		70.0	70.0	
32"		70.0	70.0	
36"		70.0	70.0	
40"		(4)	70.0	70.0
44"		70.0	70.0	
48"		70.0	70.0	
52"		70.0	70.0	
24"	52"	70.0	70.0	
28"		70.0	70.0	
32"		70.0	70.0	
36"		70.0	70.0	
40"		(4)	70.0	70.0
44"		70.0	70.0	
48"		70.0	70.0	
52"		70.0	70.0	
24"	60"	70.0	70.0	
28"		70.0	70.0	
32"		70.0	70.0	
36"		70.0	70.0	
40"		(5)	70.0	70.0
44"		70.0	70.0	
48"		70.0	70.0	
52"		70.0	70.0	

FIN FRAME WINDOWS				
DESIGN LOAD CAPACITY - PSF				
BUCK DIMS.		GLASS TYPES 'A' 'B' 'C' OR 'D'		
WIDTH	HEIGHT	EXT.(+)	INT.(-)	
24"	72"	70.0	70.0	
28"		70.0	70.0	
32"		70.0	70.0	
36"		70.0	70.0	
40"		(6)	70.0	70.0
44"		70.0	70.0	
48"		70.0	70.0	
52"		70.0	70.0	
24"	77"	70.0	70.0	
28"		70.0	70.0	
32"		70.0	70.0	
36"		70.0	70.0	
40"		(6)	70.0	70.0
44"		70.0	70.0	
48"		70.0	70.0	
52"		70.0	70.0	

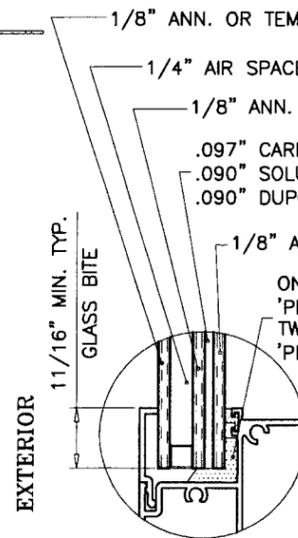
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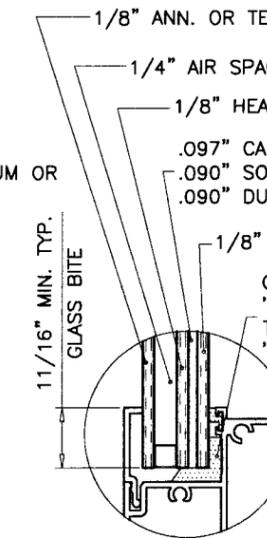
GLASS TYPE 'A'



GLASS TYPE 'B'



GLASS TYPE 'C'



GLASS TYPE 'D'

GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02 (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. 07-0306-02
Expiration Date MARCH 14, 2012
By: *Manuel Perez*
Miami Dade Product Control
Division

FEB 13 2007

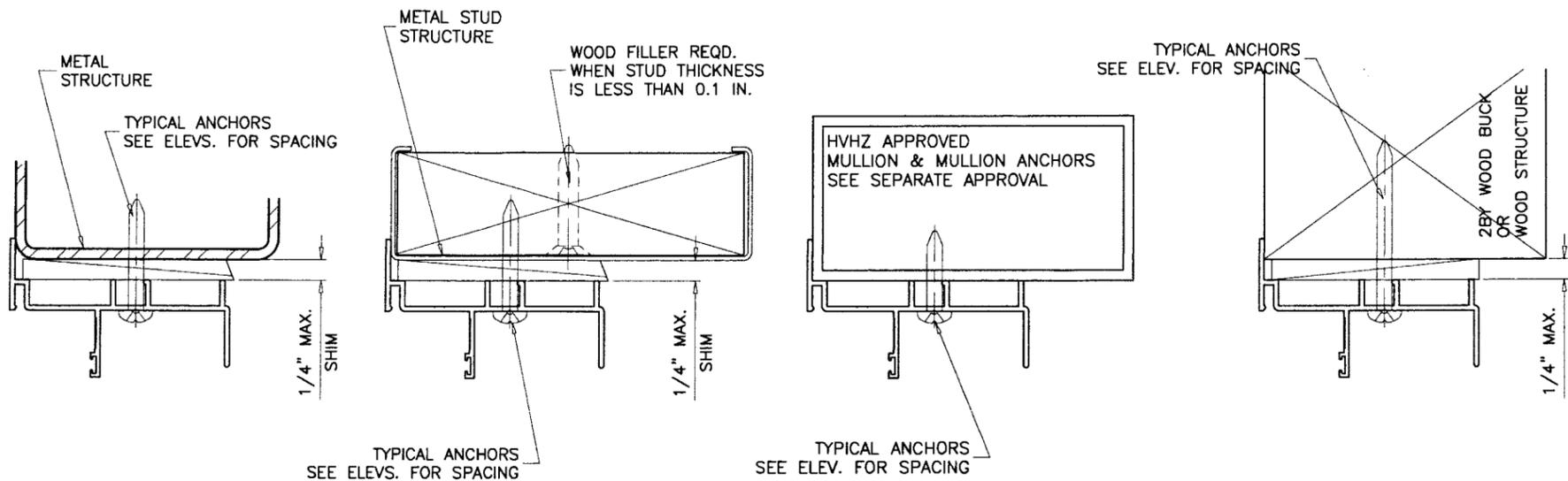
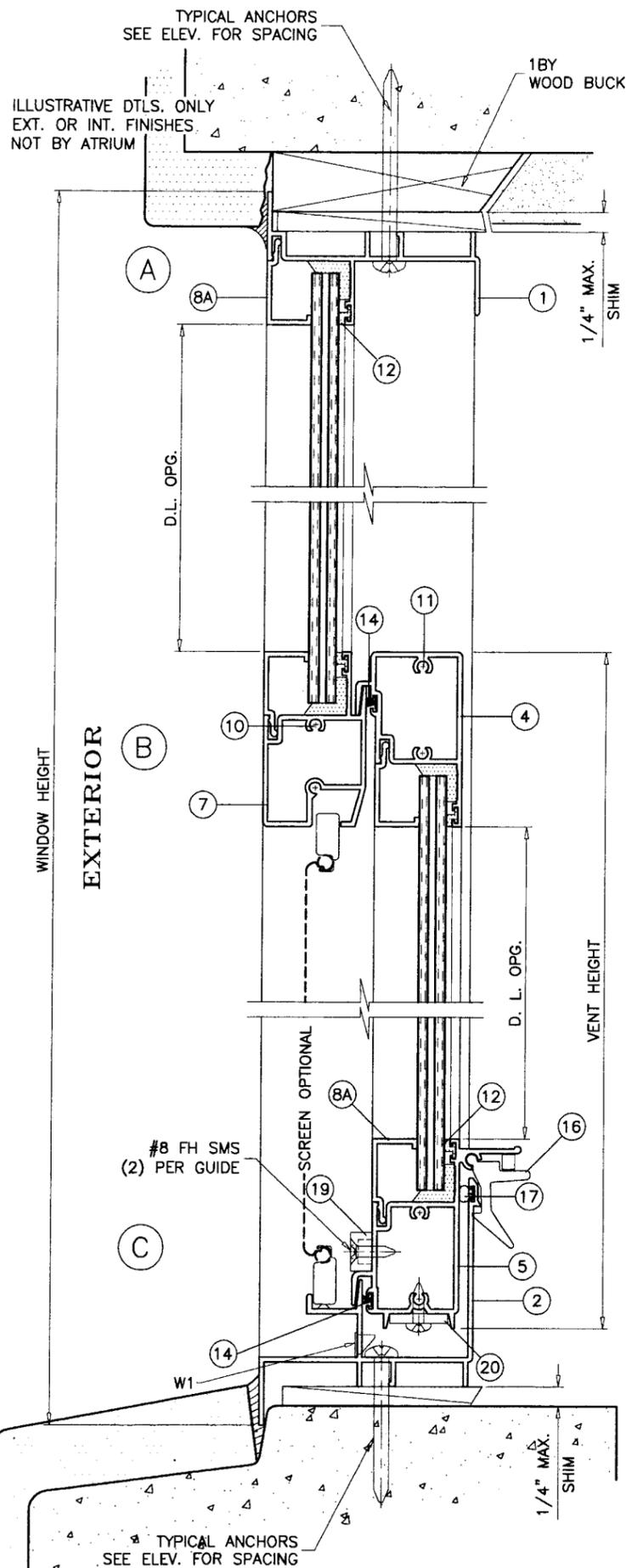
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W01-81KL

SERIES MP5H ALUM SINGLE HUNG WDW. (L.M.I.)
ATRIUM FLORIDA, INC.
3600 PORT JACKSONVILLE PARKWAY
JACKSONVILLE, FL. 32226
TEL. (904) 355-1476 FAX. (904) 353-0689

no	date	description
A	02.12.02	REV. PER BCCO COMMENTS
B	02.07.07	UPDATED FOR 2004 FBC

date: 12-26-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W01-81
sheet 2 of 7



WOOD BUCKS, METAL STUDS AND METAL STRUCTURE NOT BY ATRIUM 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'**
 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 METAL STUDS OR 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)
- #10 SMS OR SELF DRILLING SCREWS**
 INTO HVHZ APPROVED MULLIONS (MIN. THK. = .090")
 (NO SHIM SPACE)
- TYPICAL EDGE DISTANCE**
 INTO CONCRETE AND MASONRY = 1-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.
- WEEPHOLES:**
 W1 = 1" X 1/4" WEEP HOLE WITH PLASTIC BAFFLE
 AT 5" FROM EACH END AND AT MID SPAN

FLANGE FRAME WINDOW

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
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Manuel Sere
 Miami Dade Product Control
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FEB 15 2007

af c
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 sheet 3 of 7

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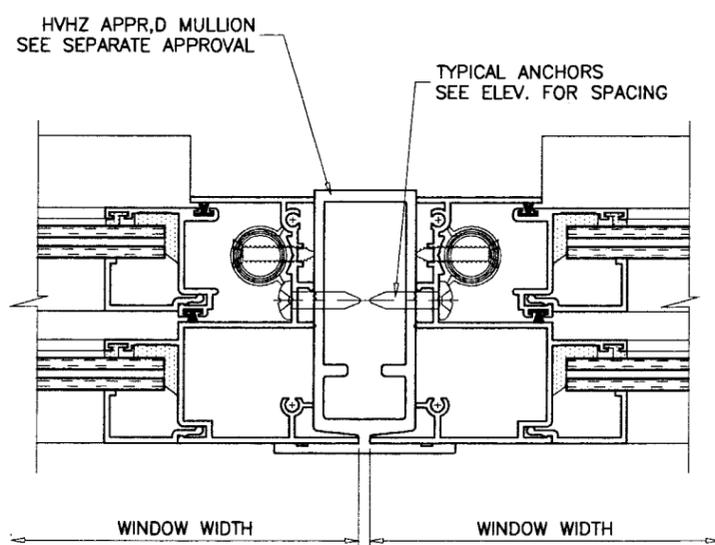
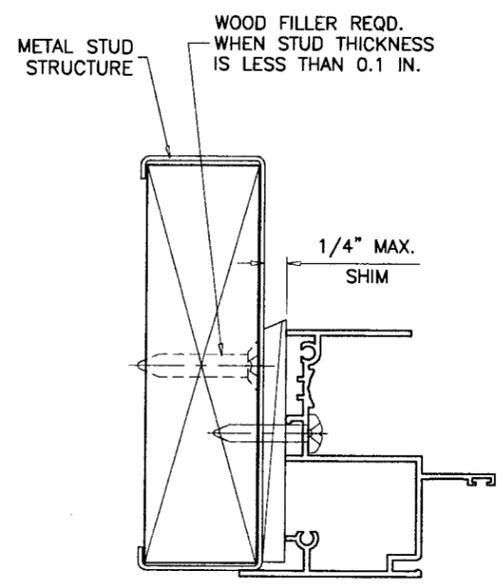
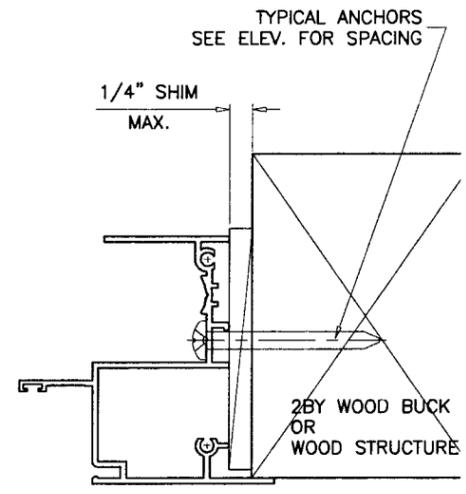
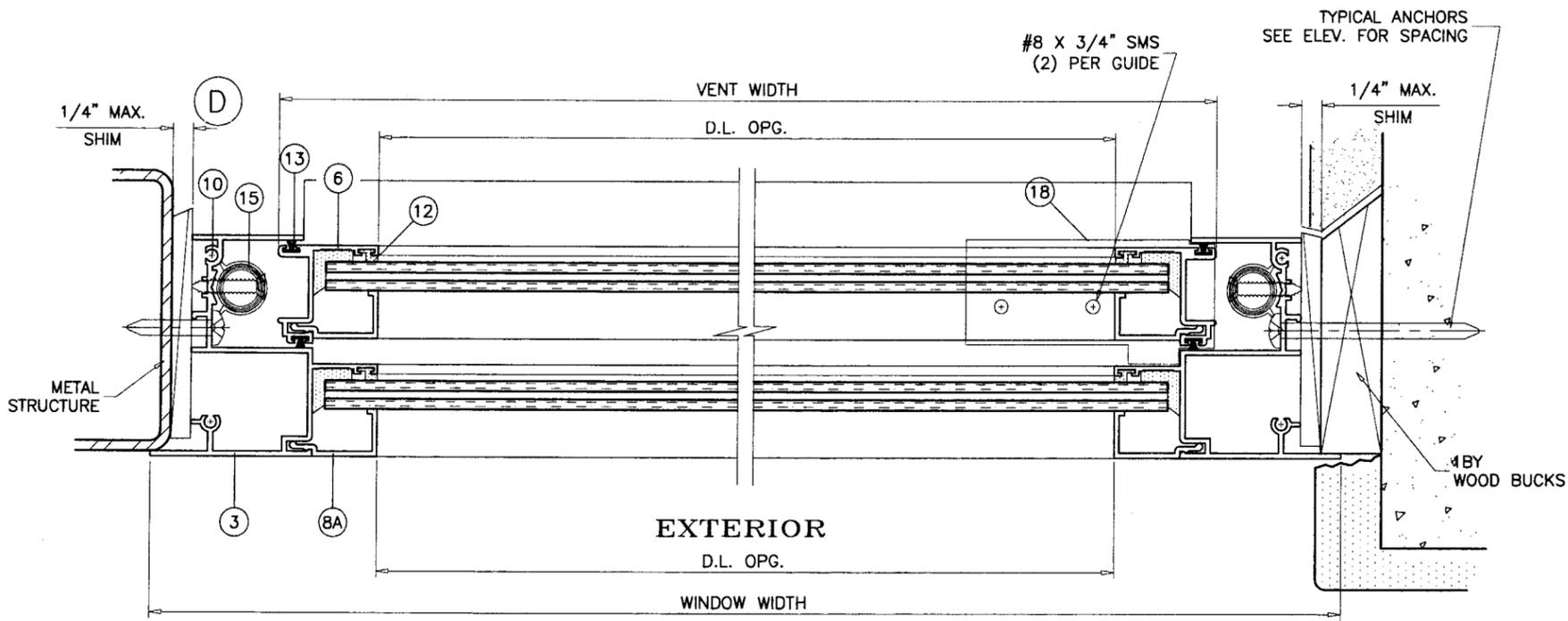
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scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

drawing no.
W01-81
 sheet 4 of 7

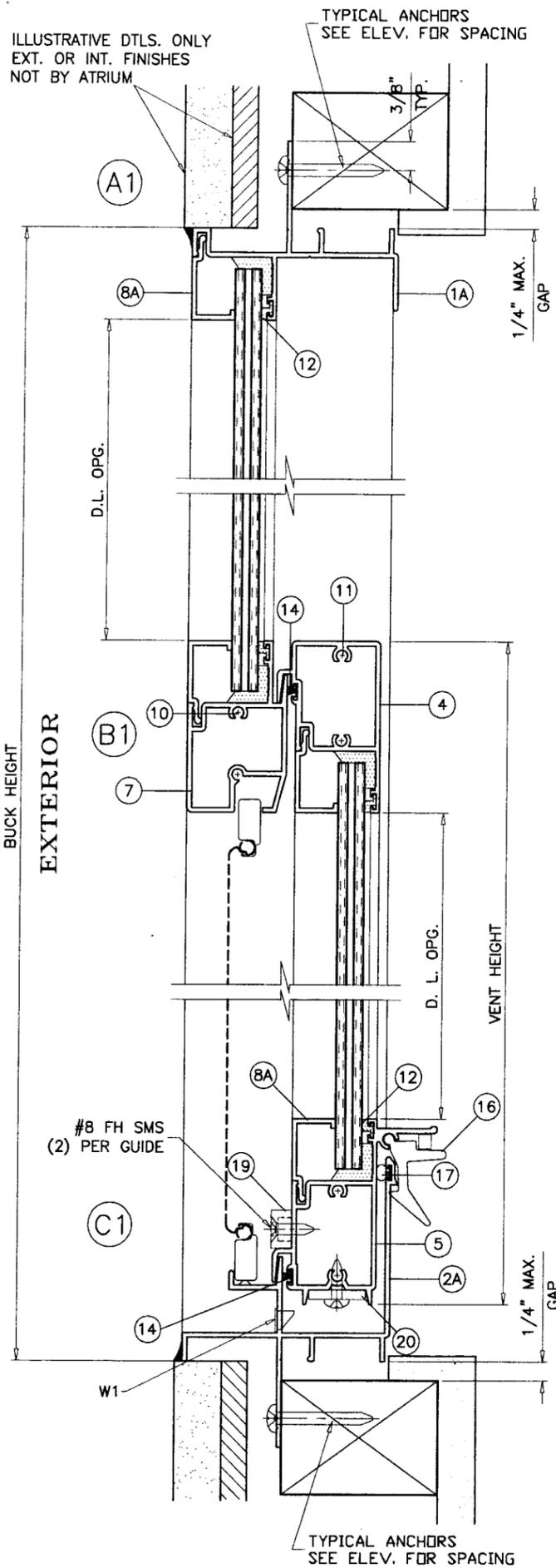


FLANGE FRAME WINDOW

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

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 as complying with the Florida
 Building Code
 Acceptance No. 07-0306.07
 Expiration Date MARCH 14, 2011
 By Manuel Perez
 Miami State Product Control
 Division

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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

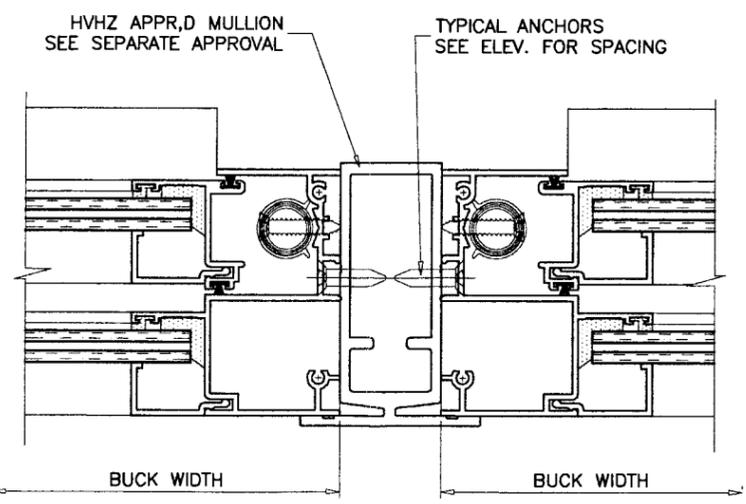
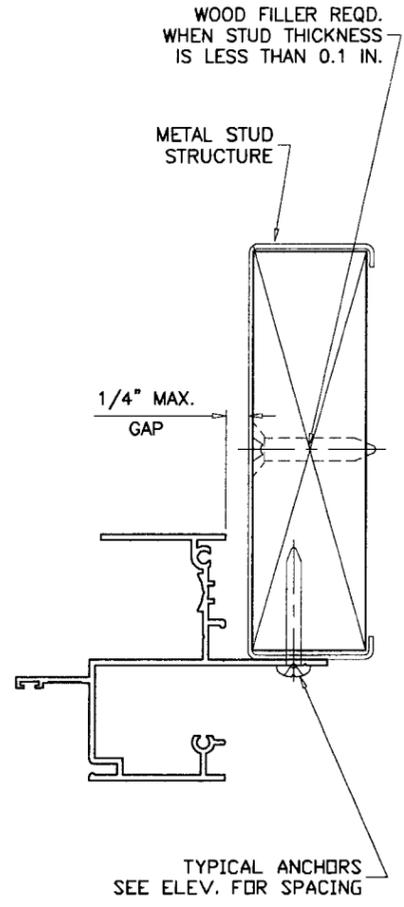
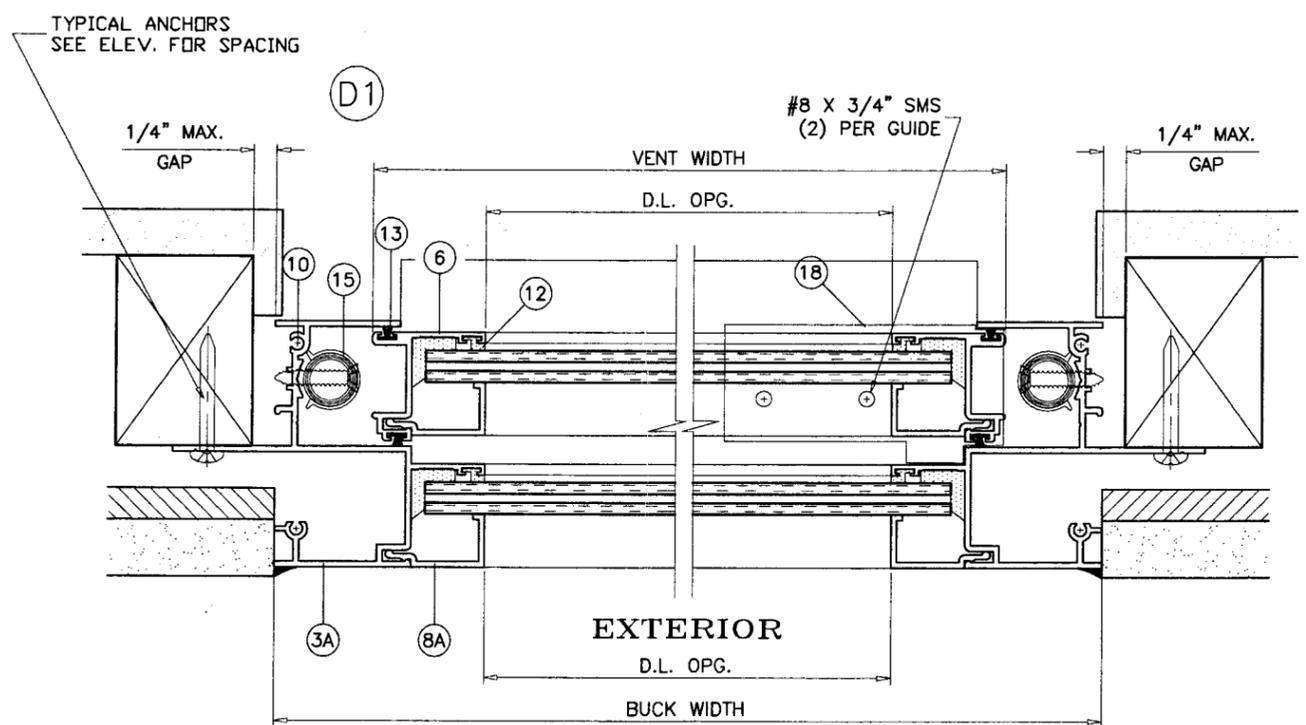
#10 SMS
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-3/8" MIN. PENETRATION INTO WOOD

#10 SMS OR SELF DRILLING SCREWS
 INTO HVHZ APPROVED MULLIONS (MIN. THK. = .090")
 (NO SHIM SPACE)

WEEPHOLES:

W1 = 1" X 1/4" WEEP HOLE WITH PLASTIC BAFFLE
 AT 5" FROM EACH END AND AT MID SPAN

WOOD BUCKS, METAL STUDS AND METAL STRUCTURE NOT BY ATRIUM
 MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
 AND TRANSFER THEM TO THE BUILDING STRUCTURE.



FIN FRAME WINDOW

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FEB 13 2007

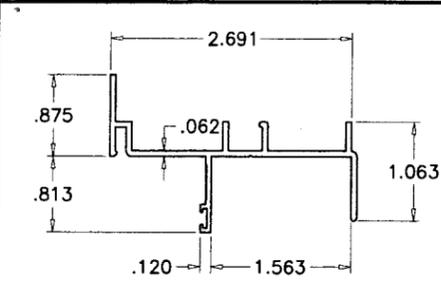
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W01-81KL

SERIES MP SH ALUM SINGLE HUNG WDW. (L.M.I.)
ATRIUM FLORIDA, INC.
 3600 PORT JACKSONVILLE PARKWAY
 JACKSONVILLE, FL. 32226
 TEL. (904) 355-1476 FAX. (904) 353-0689

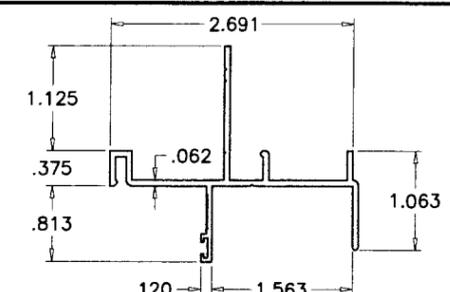
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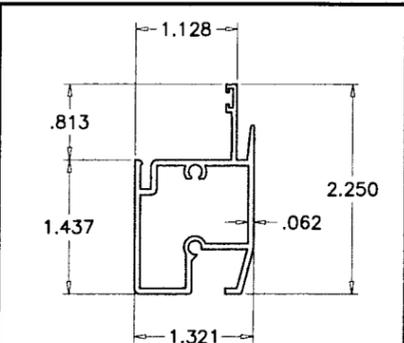
drawing no.
W01-81
 sheet 5 of 7



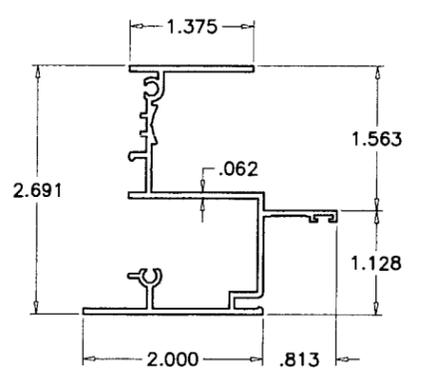
① FRAME HEAD (FLANGE)



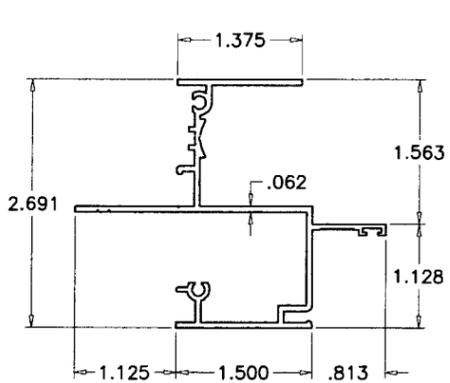
①A FRAME HEAD (FIN)



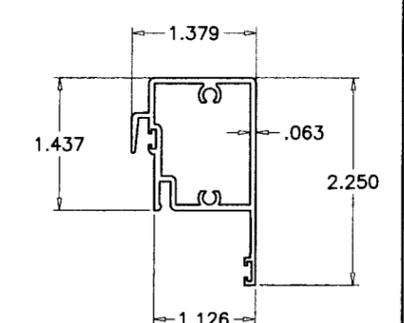
⑦ FIXED MEETING RAIL



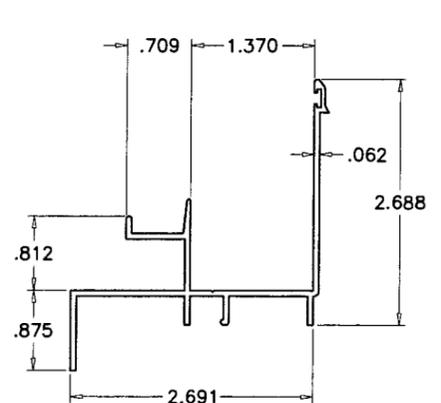
③ FRAME JAMB (FLANGE)



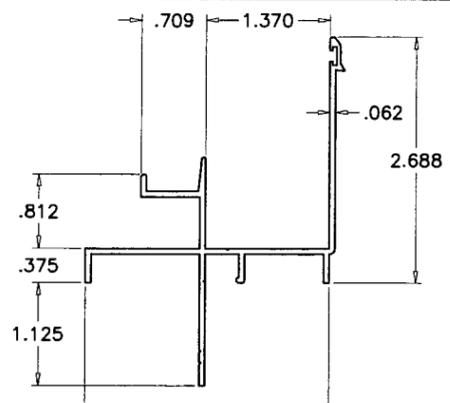
③A FRAME JAMB (FIN)



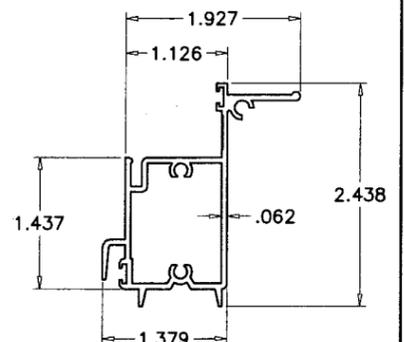
④ VENT TOP RAIL



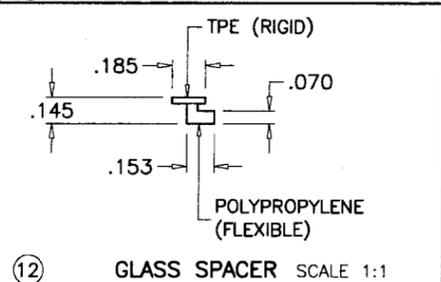
② FRAME SILL (FLANGE)



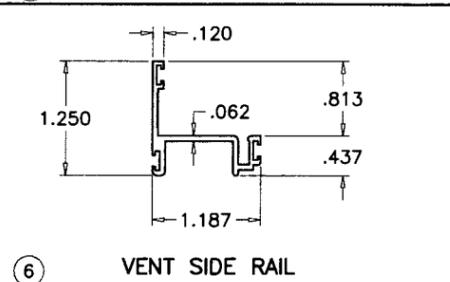
②A FRAME SILL (FIN)



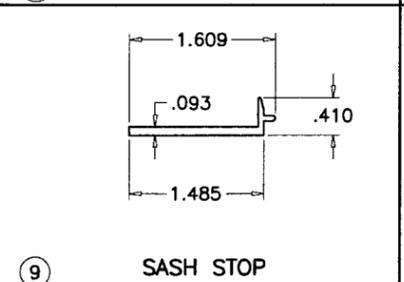
⑤ VENT BOTTOM RAIL



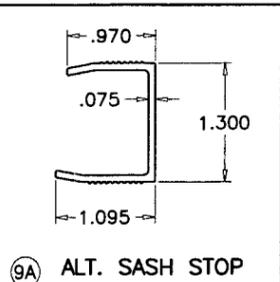
⑫ GLASS SPACER SCALE 1:1



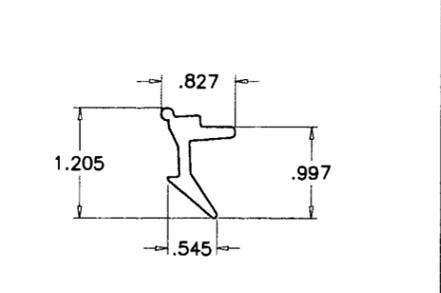
⑥ VENT SIDE RAIL



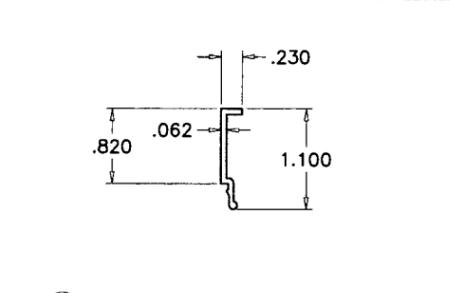
⑨ SASH STOP



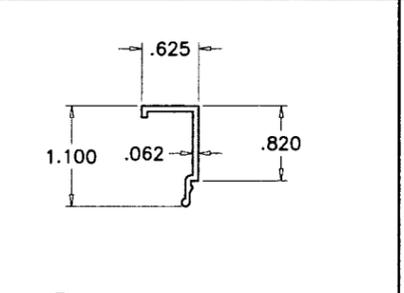
⑨A ALT. SASH STOP



⑮ LATCH



⑧ GLAZING BEAD-7/8" GLASS



⑧A GLAZING BEAD-3/8" GLASS

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	KCO-241	1	FRAME HEAD (FLANGE)	6063-T6	-
1A	KCO-2051	1	FRAME HEAD (FIN)	6063-T6	-
2	KCO-2042	1	FRAME SILL (FLANGE)	6063-T6	-
2A	KCO-2052	1	FRAME SILL (FIN)	6063-T6	-
3	KCO-2043	2	FRAME JAMB (FLANGE)	6063-T6	-
3A	KCO-2053	2	FRAME JAMB (FIN)	6063-T6	-
4	KCO-2045	1	VENT TOP RAIL	6063-T6	-
5	KCO-2046	1	VENT BOTTOM RAIL	6063-T6	-
6	KCO-2047	2	VENT SIDE RAIL	6063-T6	-
7	KCO-2044	1	FIXED MEETING RAIL	6063-T6	-
8	RP-800	4/ LITE	GLAZING BEAD-7/8" GLASS	RIGID PVC	-
8A	RP-801	4/ LITE	GLAZING BEAD-3/8" GLASS	RIGID PVC	-
9	KCO-242	-	SASH STOP	6063-T6	-
9A	-	-	ALT. SASH STOP	PVC	-
10	-	AS REQD.	FRAME ASSEMBLY SCREW	-	#8 X 1" PHPH SMS
11	-	AS REQD.	VENT ASSEMBLY SCREW	-	#8 X 1" PHPH SMS
12	VTF-2009	AS REQD.	GLASS SPACER	SEE DTL.	DUAL DUROMETER
13	W23151NG	AS REQD.	FIN SEAL WEATHERSTRIPPING	-	ULTRAFAB .150X.187 OR EQUIV.
14	W23171NG	AS REQD.	FIN SEAL WEATHERSTRIPPING	-	ULTRAFAB .170X.187 OR EQUIV.
15	-	2	5/8" SPIRAL BALANCE	-	CALDWELL ULTRALIFT/SPIREX
16	L-049	2/ VENT	SNAP LATCH 3" LONG W/ SPRING	NYLON	9" FROM EACH END (HUGHES SUPPLY)
17	U-4333	AS REQD.	BULB WEATHERSTRIPPING	-	Q-LON .300X.190
18	13130/13031	2	VENT TOP GUIDE	NYLON	ASHLAND PRODUCTS
19	13129	2	VENT BOTTOM GUIDE	NYLON	ASHLAND PRODUCTS
20	KCO-2056-A	2	BALANCE BRACKET	6063-T6	-

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

FEB 16 2007

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0306.02
Expiration Date MARCH 14, 2012

By *Manuel Sese*
Miami Date Product Control
Division

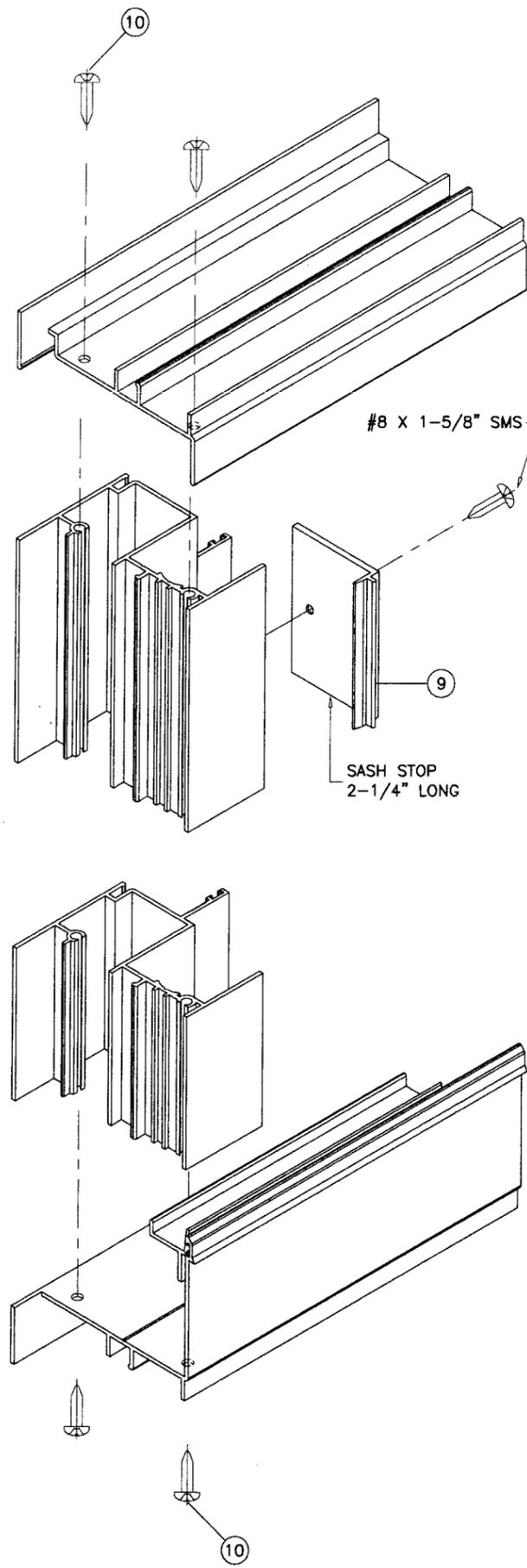
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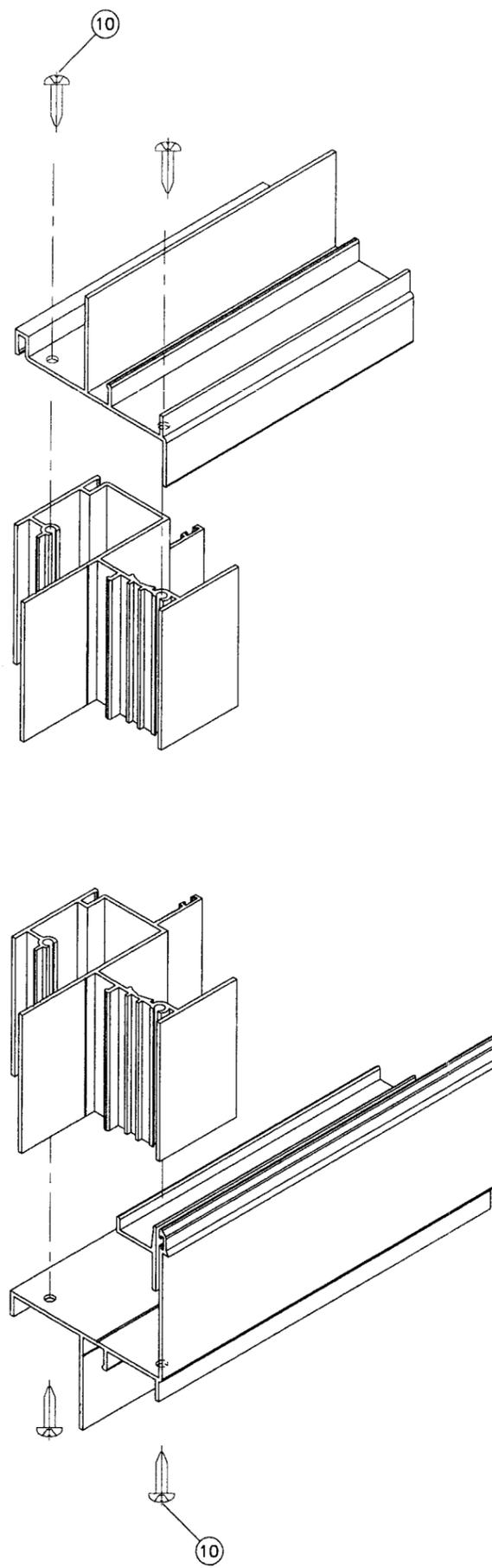
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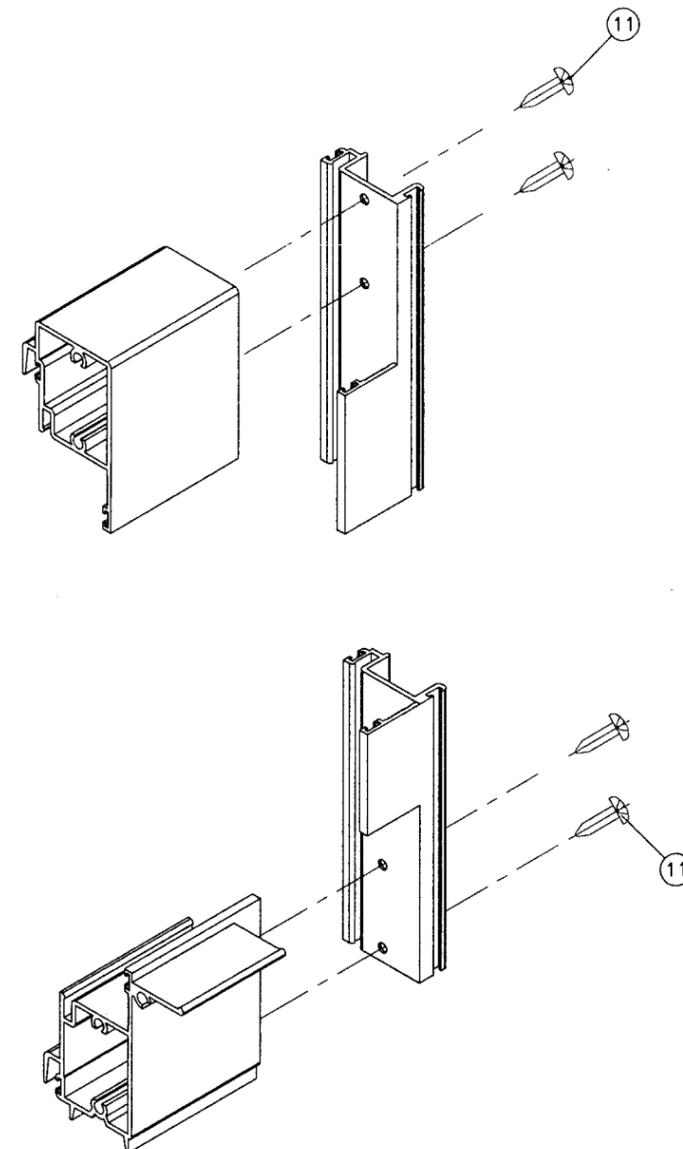
drawing no.
W01-81
sheet 6 of 7



FRAME CORNERS (FLANGE)



FRAME CORNERS (FIN)



VENT CORNER DETAIL

Engr. DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 FEB/10 2007

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **07-0306-D2**
 Expiration Date **MARCH 14, 2011**
 By *Muhammad Seres*
 Miami Dade Product Control
 Division

afc
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