



**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**

www.buldingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

**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 5000 Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W08-08**, titled “S-5000 Alum. Outswing Casement Wdw. (L.M.I.)”, sheets 1 through 5 of 5, dated 01/23/08, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 08-0204.05
Expiration Date: April 3, 2013
Approval Date: April 3, 2008
Page 1**

ES Windows LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W08-08**, Sheets 1 through 5 of 5, titled "S-5000 Alum. Outswing Casement Wdw. (L.M.I.)", dated 01/23/08, 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 202-94
along with marked-up drawings and installation diagram of series 5000 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5336**, dated 11 /16/07, signed and sealed by Carlos S. Rionda, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 1/15/08, 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. **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

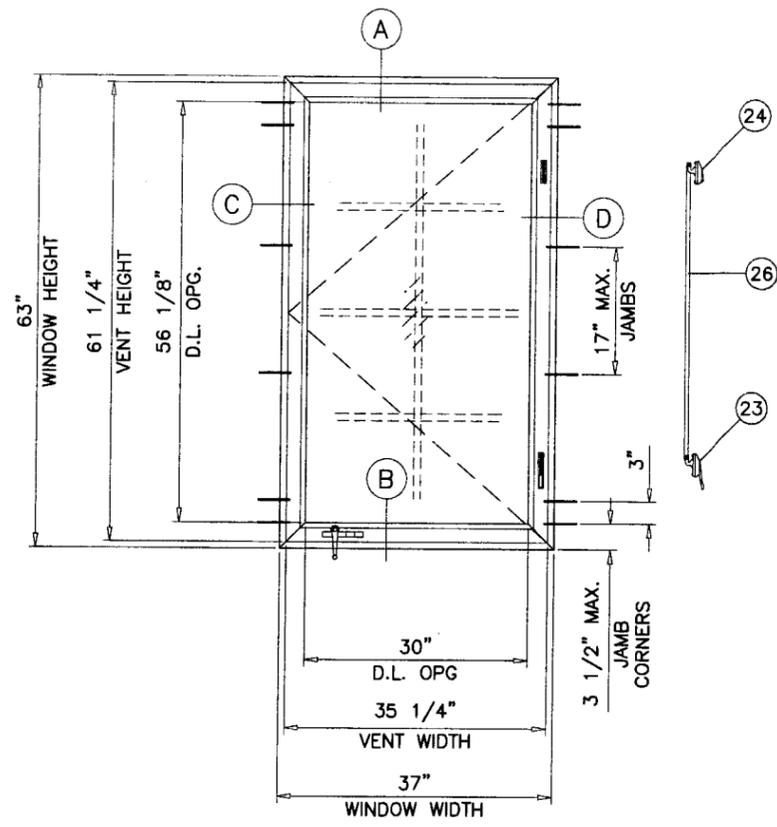
1. Statement letter of conformance, dated January 15, 2008, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated January 15, 2008, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report no. FTL- 5336, issued by Fenestration Testing Laboratory, Inc., dated December 7, 2007, signed and sealed by Carlos S. Rionda, P.E.

G. OTHER

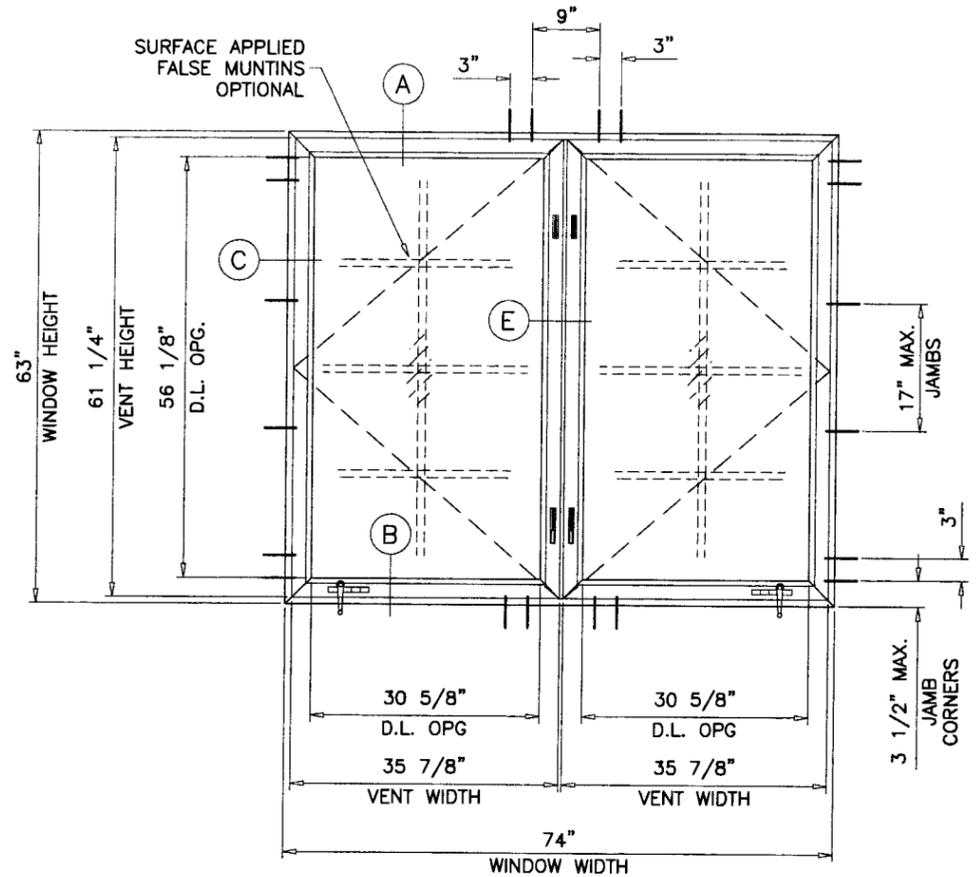
1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0204.05

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SINGLE VENT WDW.



DUAL VENT WDW.

**SERIES 5000
ALUMINUM OUTSWING CASEMENT WINDOW**

APPROVAL APPLIES TO SINGLE VENT OR DUAL VENT WINDOWS WITH X AND XX CONFIGURATIONS.
ALSO COMBINATIONS OF CASMT/CASMT OR CASMT 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 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

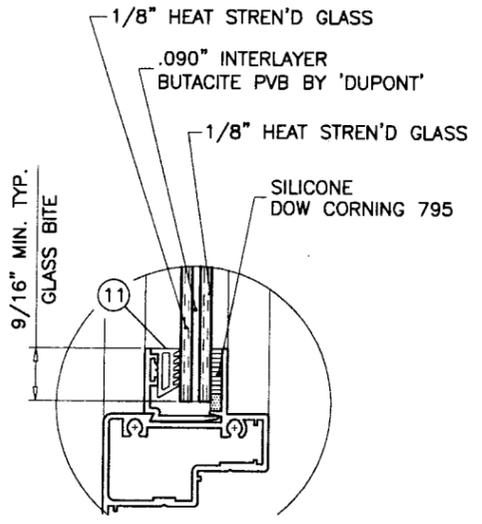
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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.



GLAZING DETAIL

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

**MAXIMUM DESIGN LOAD RATING = + 85.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 85.0 PSF**

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

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

Approved in compliance with the Florida Building Code
Date **APRIL 3, 2008**
NOAH **08-0204.05**
Miami Dade Product Control
Division
By *Manuel Perez*

JAN 28 2008

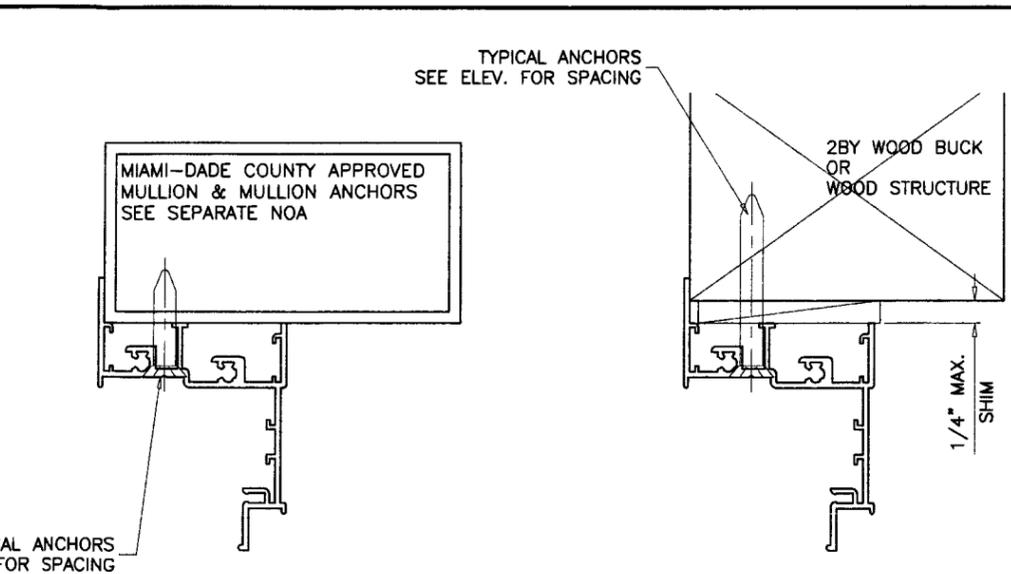
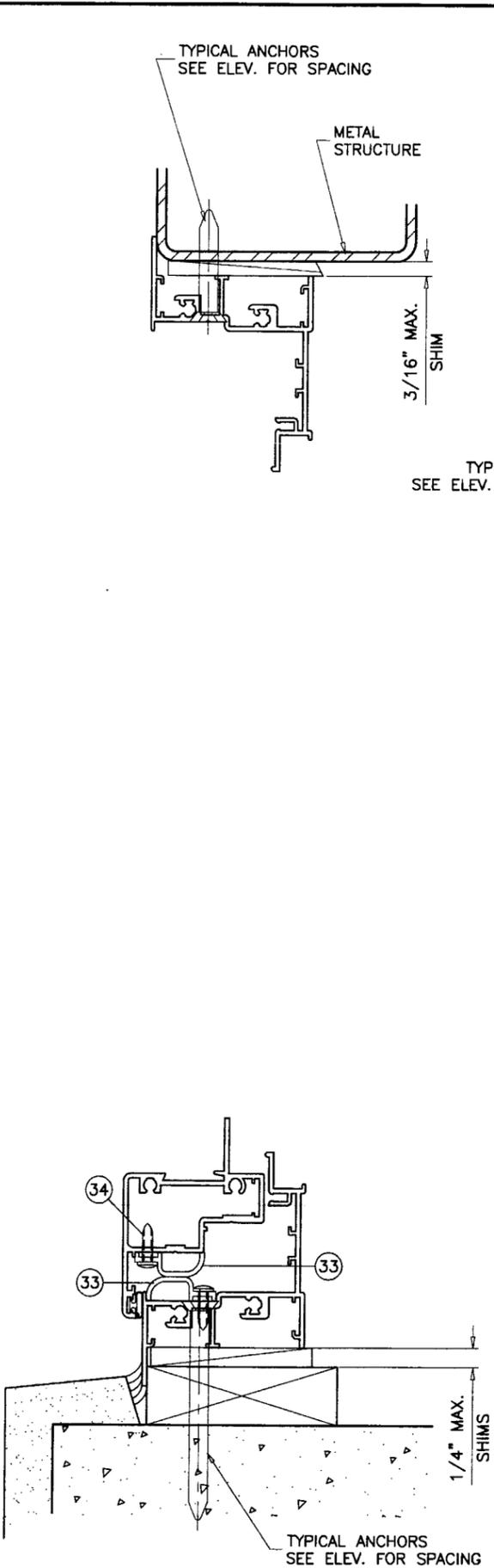
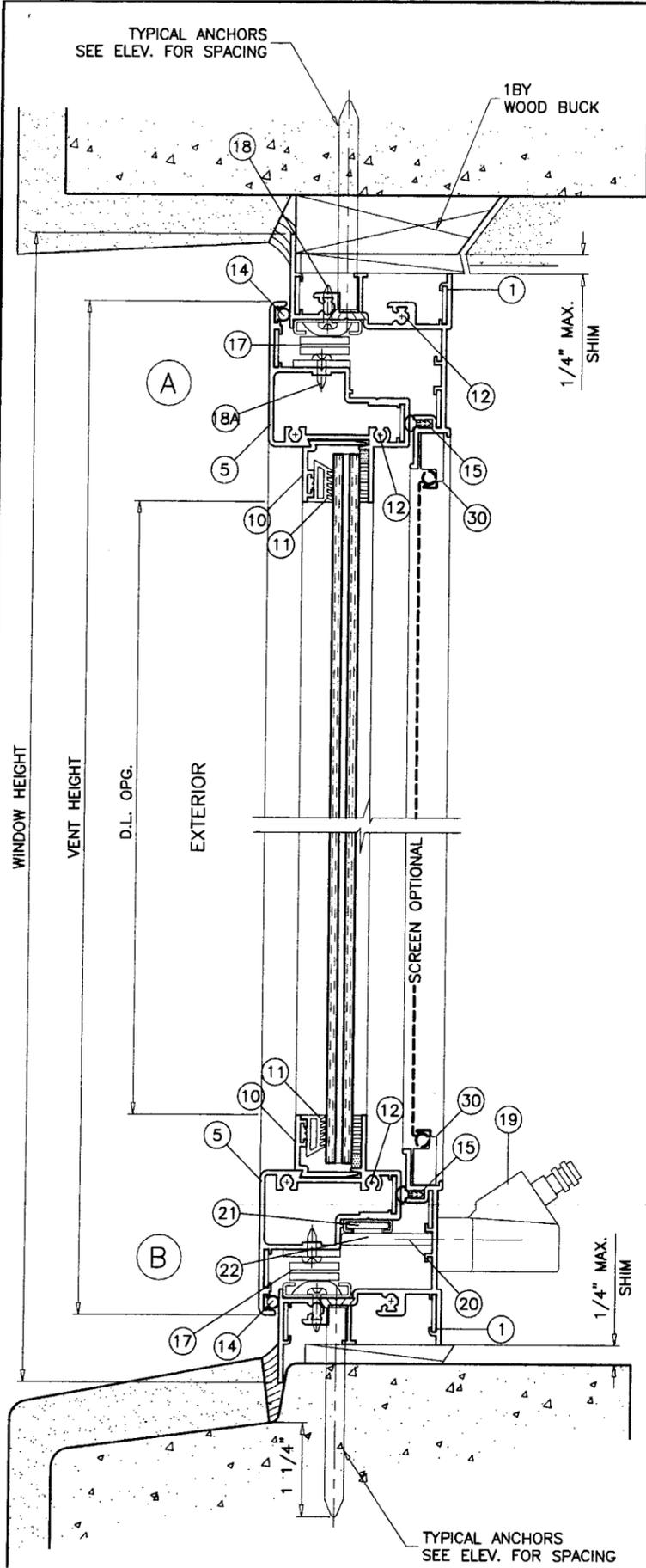
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W08-08ESW

S-5000 ALUM OUTSWING CASEMENT WDW. (L.M.I.)
E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 640-9857 FAX. (305) 593-2074

no	date	description

date: 01-23-08	scale: 1/2"=1'-0"
dr. by: HAMID	chk. by:

drawing no.
W08-08
sheet 1 of 5



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
#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:
 ALL FRAME AND VENT CORNERS AND INSTALLATION SCREWS
 SEALED WITH CLEAR/ALUMINUM COLORED SEALANT.

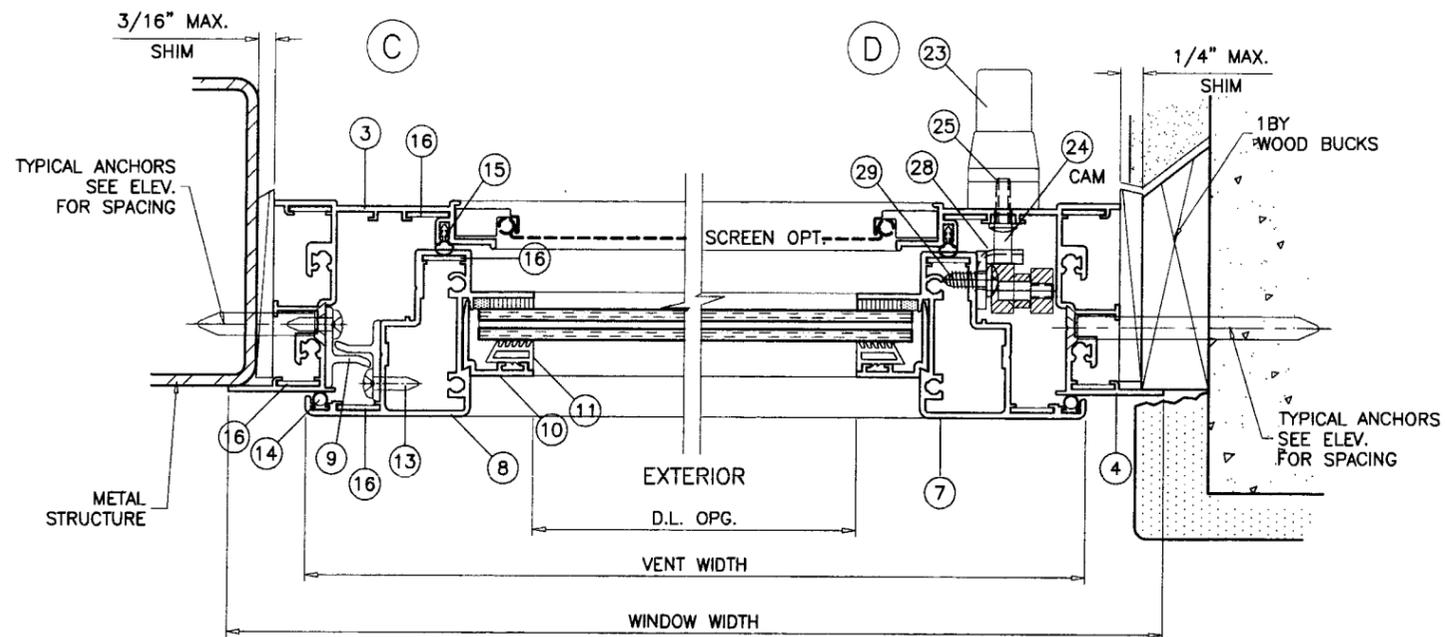
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 By *Manuel Perez*
 JAN 28 2008

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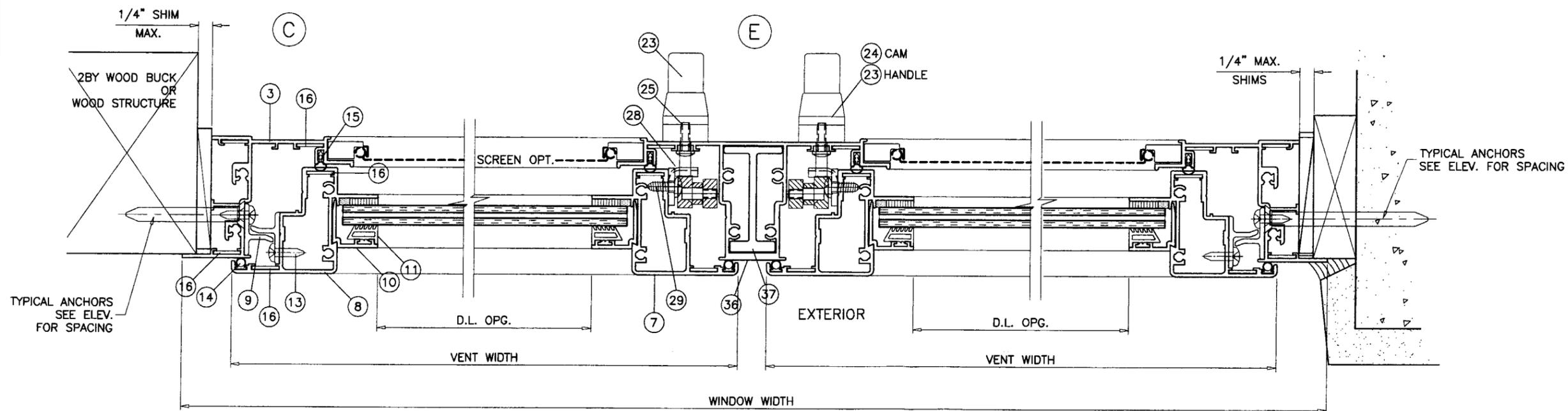
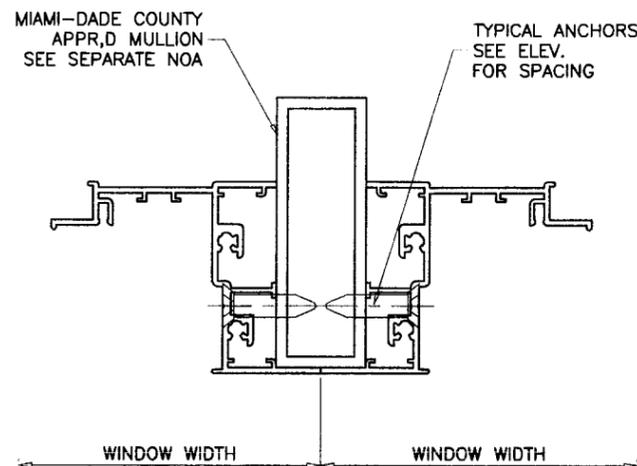
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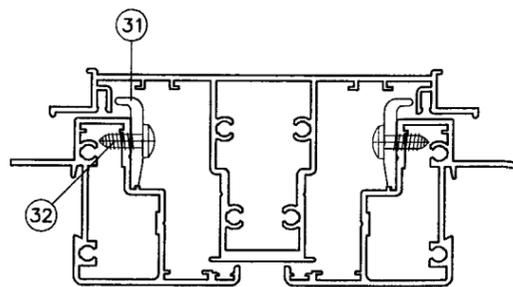
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 drawing no.
W08-08
 sheet 2 of 5



SINGLE VENT WINDOWS



DUAL VENT WINDOWS



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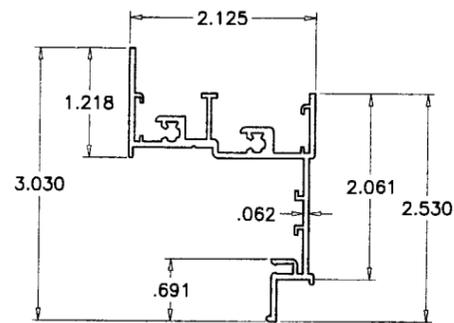
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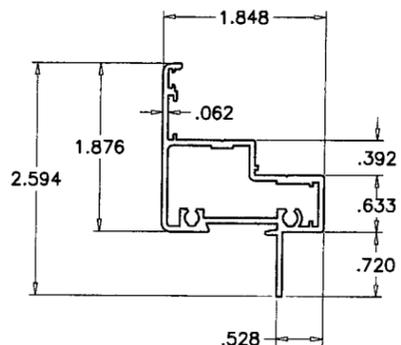
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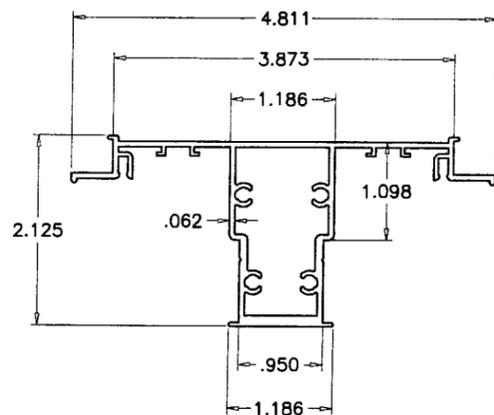
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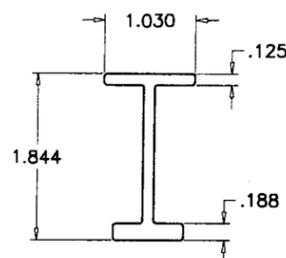
① ② ③ ④ FRAME



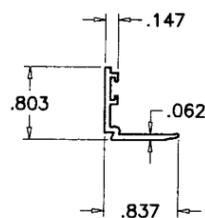
⑤ ⑥ ⑦ ⑧ VENT



⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ IMPOST



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㊻ ㊼ ㊽ ㊾ ㊿ GLAZING BEAD

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES5001-5	1	FRAME HEAD	6063-T6	-
2	ES5001-6	1	FRAME SILL	6063-T6	-
3	ES5001-3	1/ VENT	FRAME JAMB-HINGE SIDE	6063-T6	-
4	ES5001-4	1/ VENT	FRAME JAMB-LATCH SIDE	6063-T6	-
5	ES5002-1	1/ VENT	VENT TOP RAIL	6063-T6	-
6	ES5002-2	1/ VENT	VENT BOTTOM RAIL	6063-T6	-
7	ES5002-3	1/ VENT	VENT SIDE RAIL-HINGE SIDE	6063-T6	-
8	ES5002-4	1/ VENT	VENT SIDE RAIL-LATCH SIDE	6063-T6	-
9	ES5004-1	2/ VENT	SNUBBERS, 2-1/2" LONG (AT 11-1/2" & 52" FROM BOTTOM)	6063-T6	-
10	ES1008-4	AS REQD.	GLAZING BEAD	6063-T6	-
11	ES1010	AS REQD.	GLAZING WEDGE	SOFT PVC	-
12	-	AS REQD.	FRAME & VENT ASSEMBLY SCREWS	-	#10 X 1-1/2" PH SMS
13	-	2/ SNUBBER	SNUBBER INSTALLATION SCREWS	-	#8 X 1/2" PH SMS
14	ES5008	AS REQD.	OUTER WEATHERSTRIPPING	NEOPRENE	-
15	ES5005B	AS REQD.	INNER WEATHERSTRIPPING	NEOPRENE	-
16	PJS40-SS	AS REQD.	CORNER LOCK	-	SULLIVAN & ASSOCIATES
17	30155	2/ VENT	4 BAR HINGES-HEAVY DUTY	-	TRUTH HARDWARE
18	-	3/ HINGE	HINGE MOUNTING SCREWS AT FRAME	-	#10 X 1/2" PH SMS
18A	-	4/ HINGE	HINGE MOUNTING SCREWS AT VENT	-	#10 X 1/2" PH SMS
19	23 SERIES	1/ VENT	SINGLE ARM OPERATOR (AT 8-1/2" FROM ENDS)	-	TRUTH HARDWARE
20	-	4/ OPER.	OPERATOR MOUNTING SCREWS	-	#10-24 X 3/8" PH SMS
21	30175	1/ OPER.	13-3/4" LONG TRACK	ST. STEEL	TRUTH HARDWARE
22	-	2/ TRACK	TRACK MOUNTING SCREWS	-	#10 X 3/8" PH SS SMS
23	-	1/ VENT	LOCKING HANDLE	-	SULLIVAN & ASSOC.
24	-	2/ VENT	LOCKING CAM (AT 11-1/2" & 50-1/2" FROM BOTTOM)	-	SULLICAN & ASSOC.
25	-	2/ LOCK	LOCK MOUNTING SCREWS	-	#6-32 x 1/2 PH MS
26	ES5013	1/ VENT	LOCK HANDLE/CAM CONNECTOR	-	1/4" x 1/2" ALUM. BAR
27	ES5011	2/ BAR	CONNECTOR SCREWS	-	CUSTOM
28	CS-200K-SS	2/ VENT	KEEPERS (AT 12" & 51" FROM BOTTOM)	ST STEEL	SULLIVAN & ASSOC.
29	-	2/ KEEPER	KEEPER MOUNTING SCREWS	-	#10 X 3/8" PH SMS
30	-	OPTIONAL	5/16" BOX SCREEN	-	-
31	ES5014-1	-	DRIFT RESTRAIN CLAMP, 6" LONG	6063-T6	AT MIDSPAN OF VENT
32	-	3/ CLAMP	CLAMP MOUNTING SCREWS	-	#10 X 1/2" PH SMS
33	ES5009	2/ VENT	ANTI SAG SKATE, 2" LONG	NYLON/CELCON	M&M PLASTICS
34	-	2/ SKATE	SKATE MOUNTING SCREWS	-	#6 x 1/2" PHSMS
35	-	2/ ASSY.	TANDEM LATCH SPACER	-	-
36	ES5003-1	1	IMPOST	6063-T6	-
37	ES5010	AS RQD.	IMPOST STIFFENER	6063-T6	-

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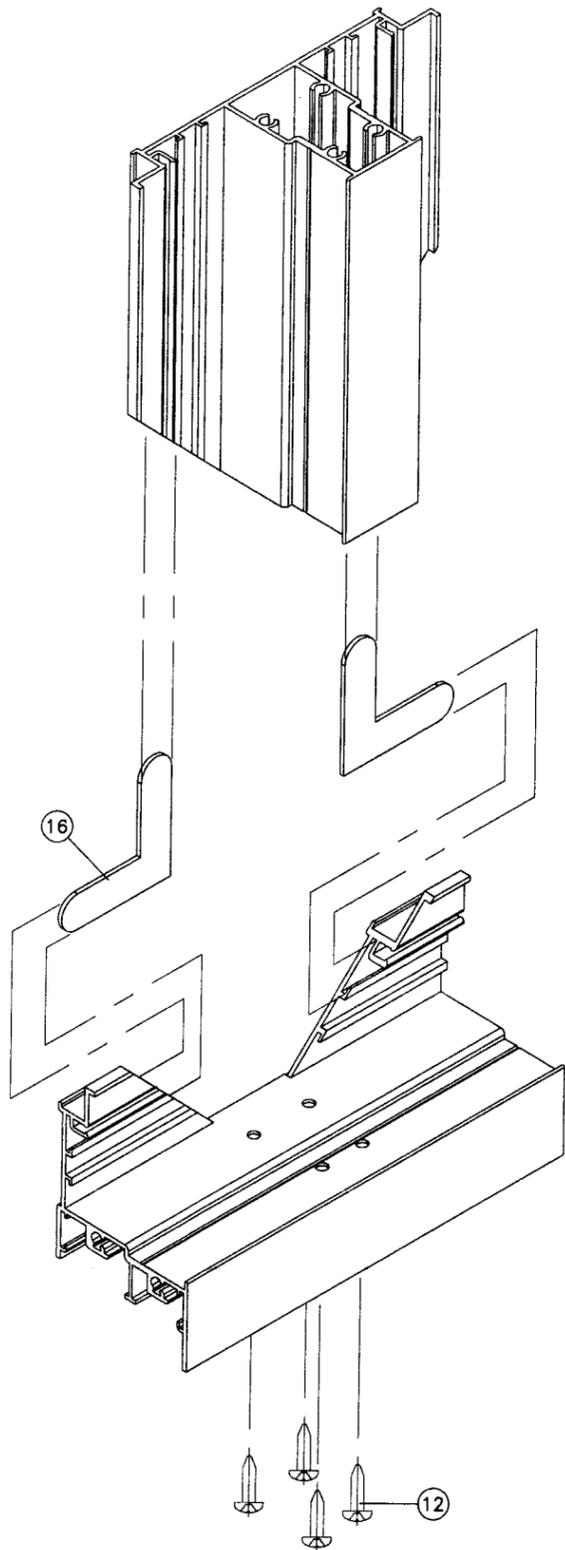
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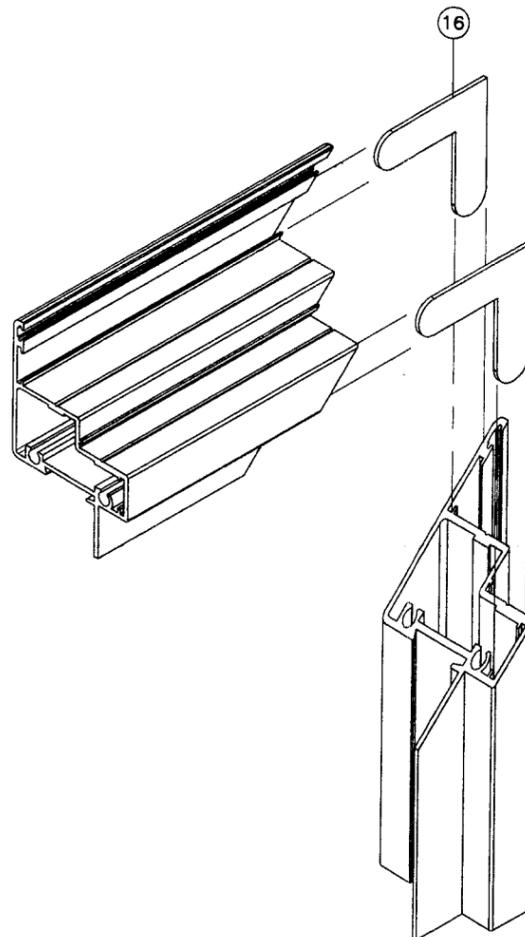
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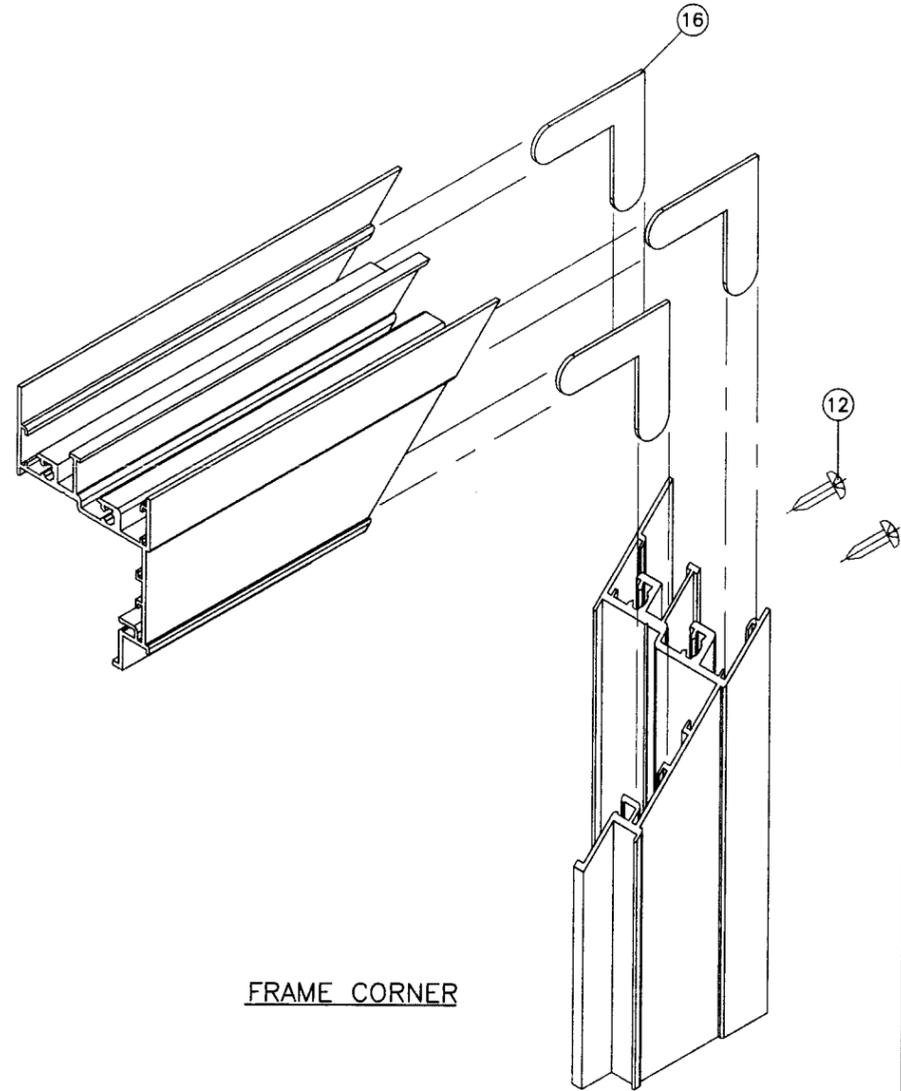
sheet 4 of 5



IMPOST CORNER



VENT CORNER



FRAME CORNER

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sheet 5 of 5