



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

TM Windows, LLC
1543 N. Powerline Road
Pompano Beach, FL 33069

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "747 HP" Aluminum Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W07-25**, titled "Series 747 HP Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 5 of 5, dated 03/30/07, with revision D dated 05/04/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 Section.

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, model/series, 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# 13-0122.03 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.**



MP
9/3/15

NOA No. 15-0611.08
Expiration Date: March 06, 2018
Approval Date: September 03, 2015
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA# 07-0612.06)
2. Drawing No **W07-25**, sheets 1 through 5 of 5, titled "Series 747 HP Alum. Single Hung Wdw. (L.M.I.)", dated 03/30/07, with revision D dated 05/04/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 a series 747 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4974**, dated 01/02/07, signed and sealed by Michael Wenzel, P.E.
(Submitted under previous NOA# 07-0612.06)
2. Test reports on:
 - 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of a series 747 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5143**, dated 03/06/07, signed and sealed by Michael Wenzel, P.E.
(Submitted under previous NOA# 07-0612.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)** dated 05/01/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).


Manuel Perez, P.E.
Product Control Examiner
NOA No. **15-0611.08**

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E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their “**Saflex Clear and Color Glass Interlayers**” dated 06/19/14, expiring on 05/21/16.
3. Notice of Acceptance No. **13-1126. 20** issued to **Allnex USA, Inc.** for their “**Uvekol S Laminated Glass Interlayer**”, dated 02/20/14, expiring on 02/08/19.
4. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their “**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**” dated 06/19/14, expiring on 12/11/18.

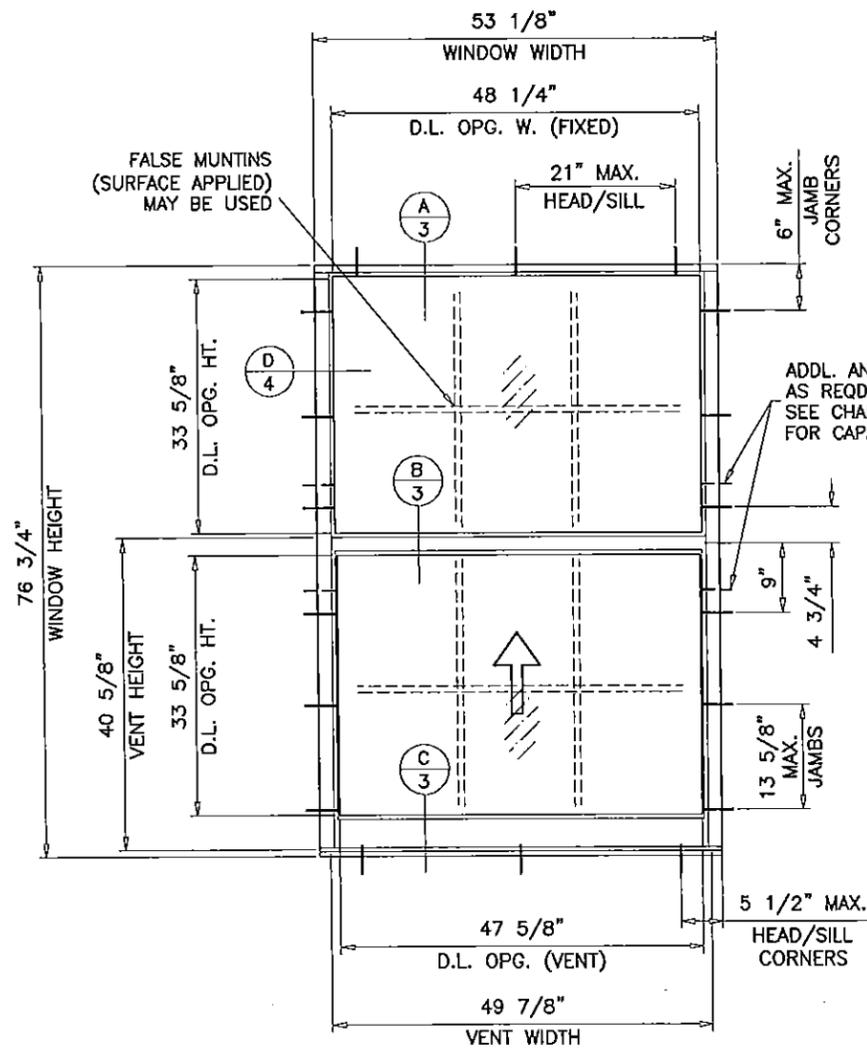
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated May 1, 2015, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letter for Test Report no. **FTL-4974**, issued by Fenestration Testing Laboratory, Inc., dated March 07, 2007, signed and sealed by Michael Wenzel, P.E.
(Submitted under NOA# 07-0612.06)
3. Laboratory compliance letter for Test Report no. **FTL-5143**, issued by Fenestration Testing Laboratory, Inc., dated March 22, 2007, signed and sealed by Michael Wenzel, P.E.
(Submitted under NOA# 07-0612.06)

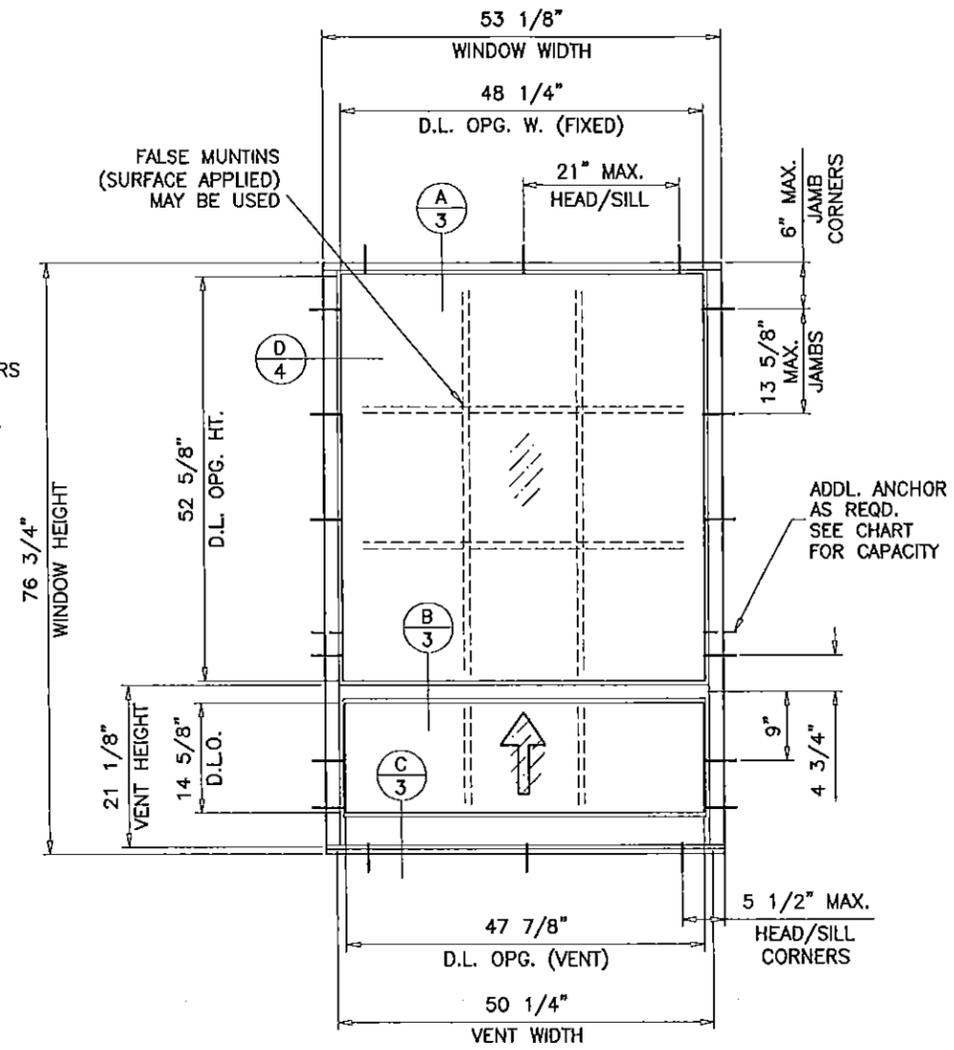
G. OTHERS

1. Notice of Acceptance No. **13-0122.03**, issued to T.M. Windows LLC for their Series “**747 HP**” Aluminum Single Hung Window – L.M.I., approved on 03/28/13 and expiring on 03/06/18.


Manuel Perez, P.E.
Product Control Examiner
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Approval Date: **September 03, 2015**



TYPICAL ELEVATION
EQUAL LITES



TYPICAL ELEVATION
UNEQUAL LITES

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

**SERIES 747 HIGH PERFORMANCE
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 MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 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.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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

LAMINATED GLASS
LARGE MISSILE IMPACT

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.M. 3538
SEP 17 2015

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Miami Dade Product Control

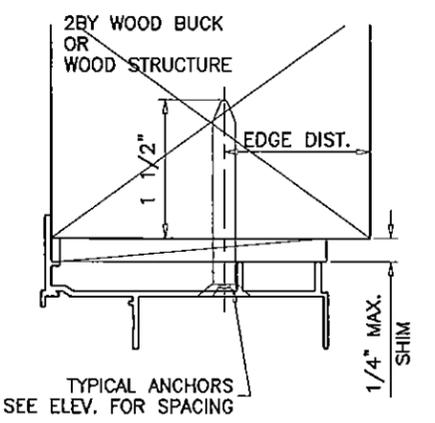
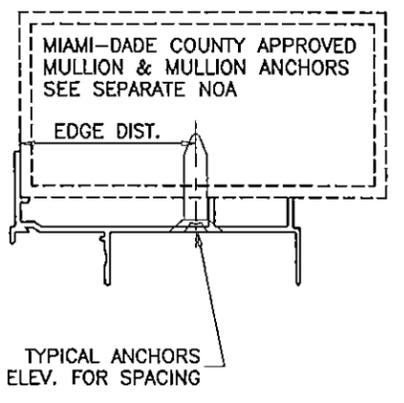
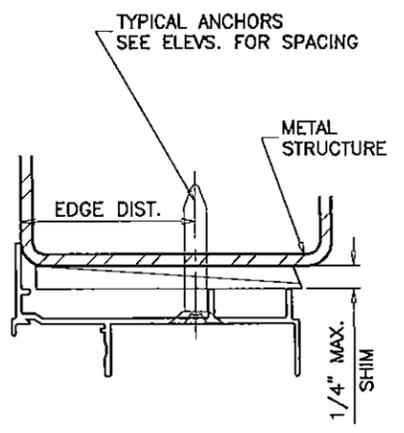
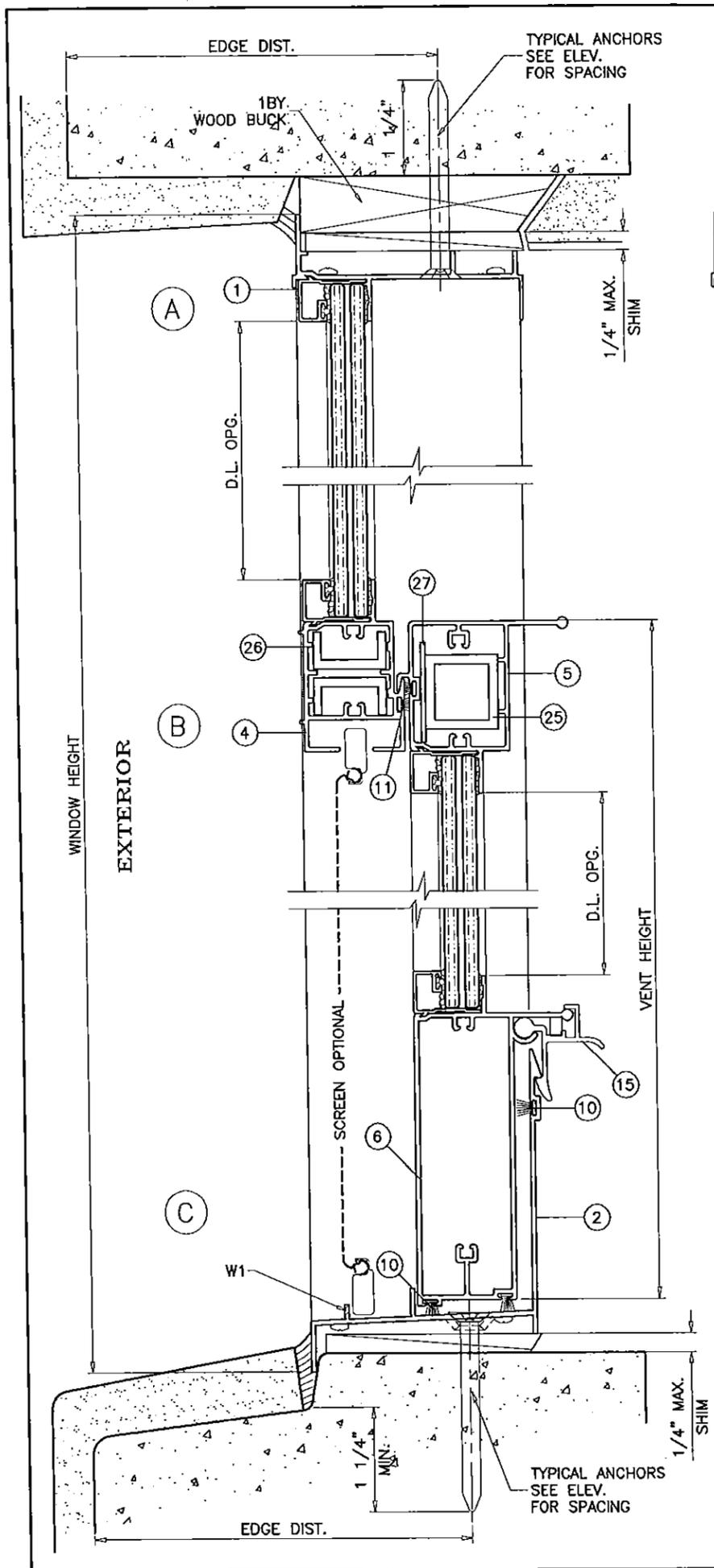
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W07-25TMW

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1543 N. POWERLINE ROAD
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TEL (954) 781-4430 FAX (954) 781-3595

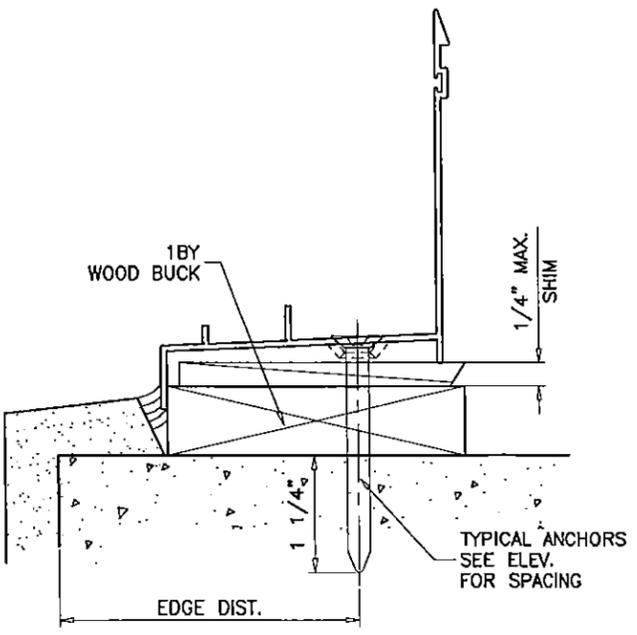
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B	02.03.10	UPDATED FOR 2007 FBC	
C	01.11.12	UPDATED TO 2010 FBC	
D	05.04.15	UPDATED TO 2014 FBC	

revisions:
date: 03-30-07
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W07-25
sheet 1 of 5



WOOD BUCKS AND METAL STRUCTURE NOT BY TM 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' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
 (NO SHIM SPACE)

TYPICAL EDGE DISTANCE

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

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE OR ACRYLIC SEALANT.

WEEPHOLES:

W1 = 7/8" LONG NOTCH AT EACH END

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 SEP 12 2011

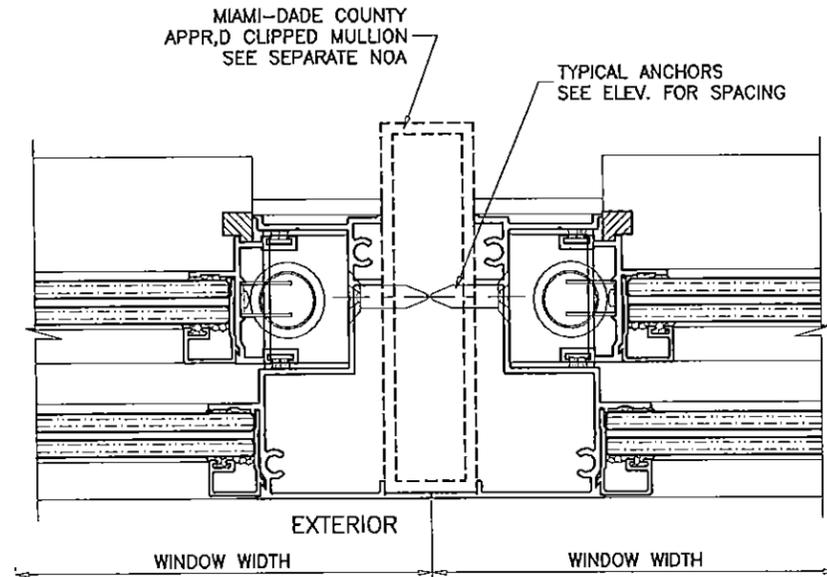
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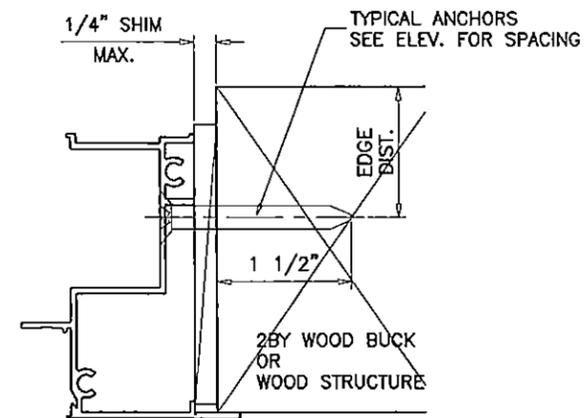
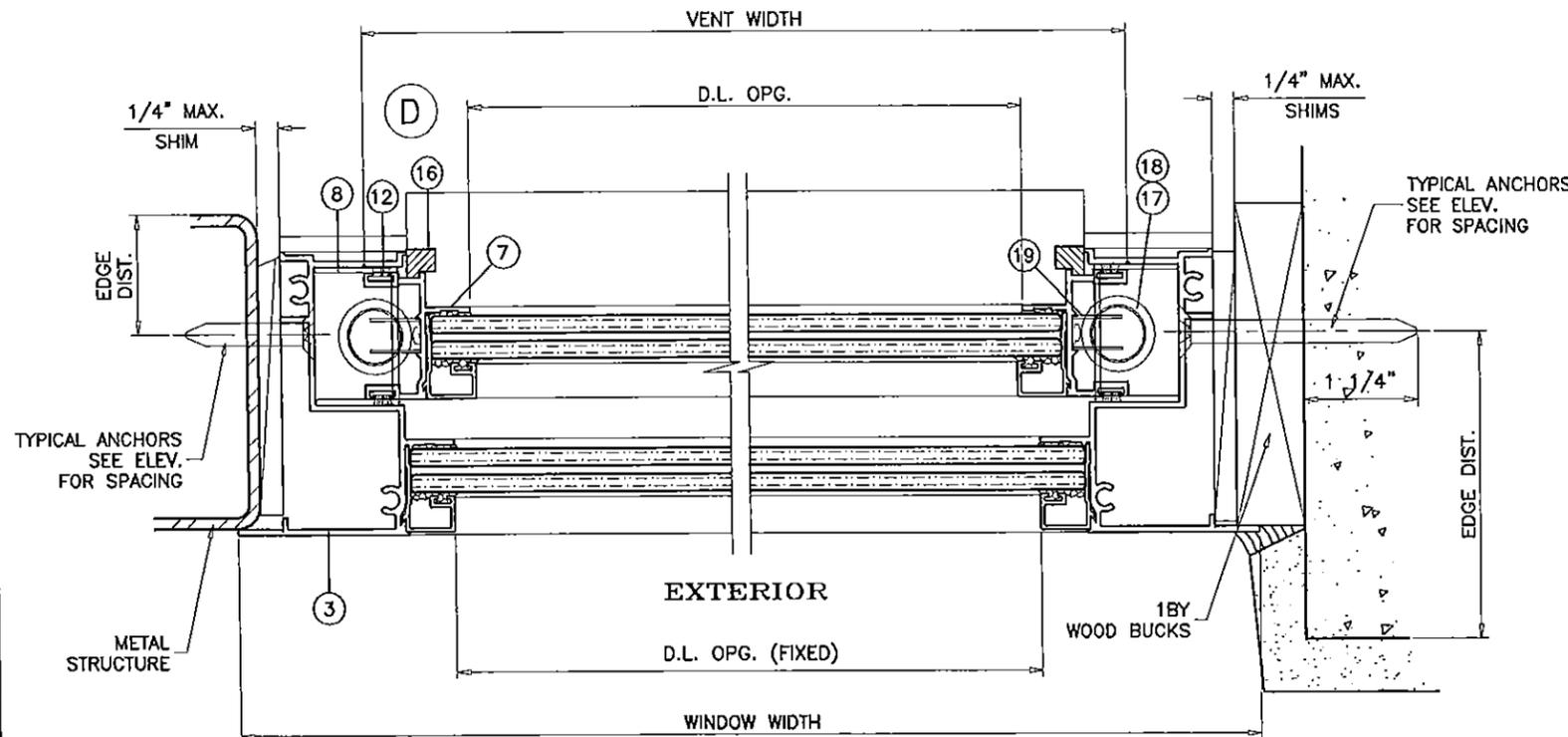
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 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:
 drawing no. W07-25
 sheet 3 of 5



ITEM	PART #	QTY.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	TM-131A	1	FRAME HEAD	6063-T6	-
2	GW-37731	1	FRAME SILL	6063-T6	-
3	TM-130	2	FRAME JAMB	6063-T6	-
4	TM-137	1	MEETING RAIL	6063-T6	-
5	TM-140	1	VENT TOP RAIL	6063-T6	-
6	GW-37730	1	VENT BOTTOM RAIL	6063-T6	-
7	GW-31134	2	VENT JAMB STILE	6063-T6	-
8	GW-31470	2	VENT STOP	6063-T6	-
9	TM-141B	4/VENT	GLAZING BEAD	6063-T6	-
10	W43371	(2) STRIP	FIN SEAL WEATHERSTRIP	-	BOTTOM RAIL/FRAME SILL
11	W43201	(1) STRIP	FIN SEAL WEATHERSTRIP	-	VENT TOP/MTG.RAIL
12	W31225	(2) STRIP	FIN SEAL WEATHERSTRIP	-	VENT JAMB STILES
14	P5043	2	1 3/8"x7/8"x1/2" FINSEAL PAD	-	FRAME SILL CORNERS
15	TM-118A	2/VENT	SPRING LOADED EGRESS LOCK	6063-T6	VENT BOTT. RAIL, 6" FROM ENDS
16	-	4/VENT	VENT GUIDE	NYLON	VENT INT. CORNERS
17	-	2/VENT	CALDWELL SPIRAL BALANCES	-	AT FRAME JAMBS
18	WVR-9302	2/VENT	BALANCE COVER	VINYL	FRAME HEAD/JAMBS
19	N69	2/VENT	CALDWELL BALANCE CLIP	-	VENT BOTT. CORNERS
20	-	2	#12 x 3/4" P.H. SMS	STEEL	(1) AT EACH BALANCE
21	-	2/ CORNER	#12 x 1" P.H. SMS	STEEL	FRAME CORNERS & MTG. RAIL CORNERS
22	-	2/ CORNER	#10 x 1" P.H. SMS	STEEL	VENT CORNERS
24	-	4	#6 x 3/8" F.H. SMS.	STEEL	AT EA. PLASTIC GUIDE
25	-	2	1/2" X 1" X 1/8" REINF. CHANNEL	6063-T5	AT MTG. RAIL
26	-	1	1 X 1 X 1/8" REINF. TUBE	6063-T5	AT VENT TOP RAIL
27	-	1	1-3/8 X 1/16" REINF. BAR	6063-T5	AT VENT TOP RAIL



Engr: JAVAD AHMAD
CML
FLA. P.E. # 70592
C.A.M. 3538

SEP 12 2015

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By *Manuel Perez*
Miami/Dade Product Control

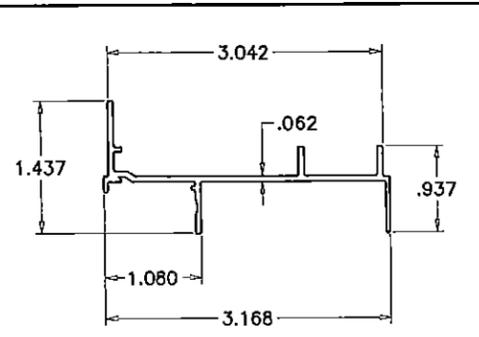
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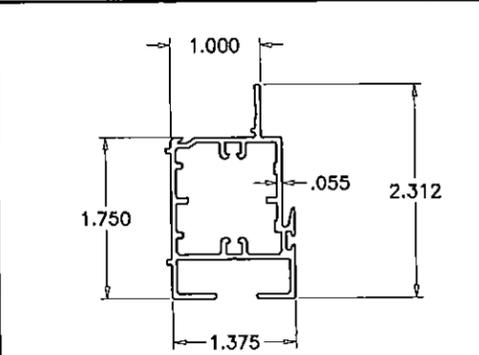
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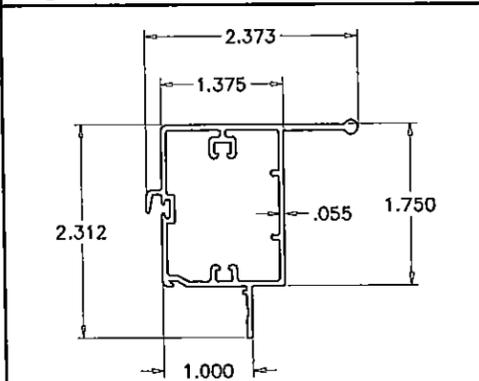
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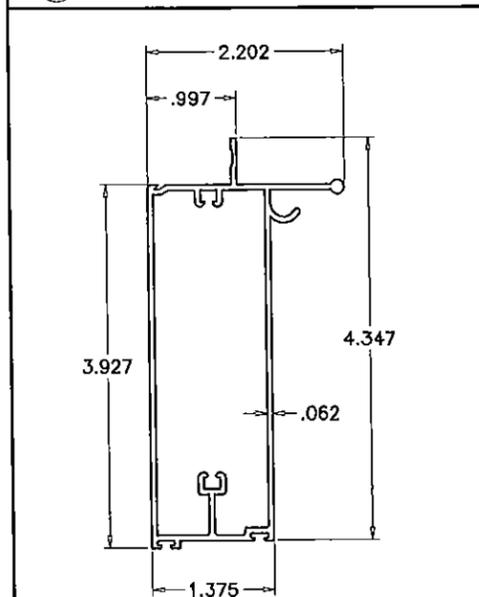
1 FRAME HEAD



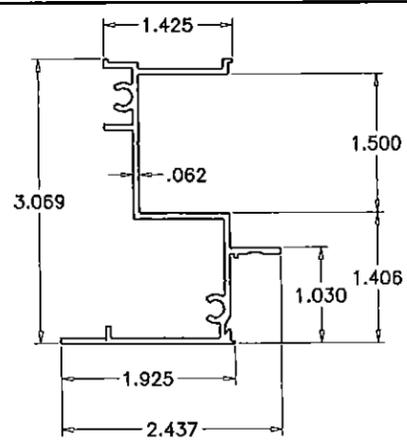
4 FIXED MEETING RAIL



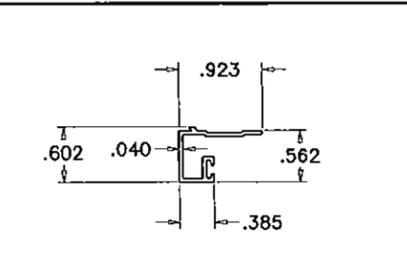
5 VENT TOP RAIL



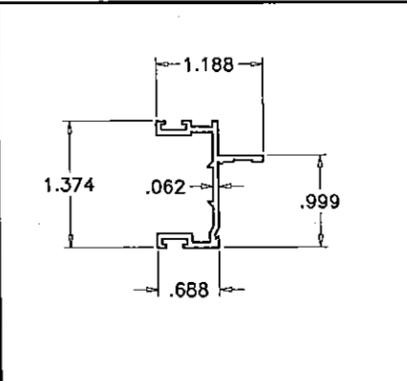
6 VENT BOTTOM RAIL



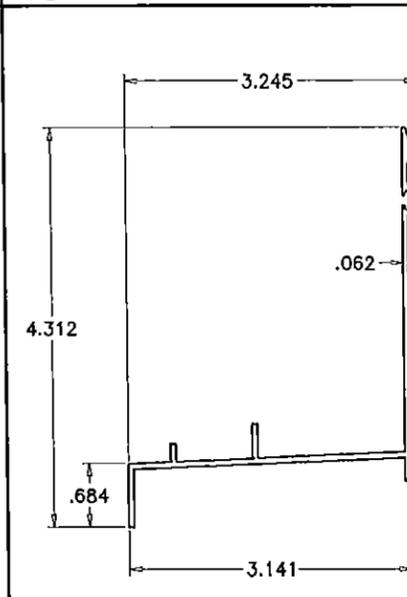
3 FRAME JAMB



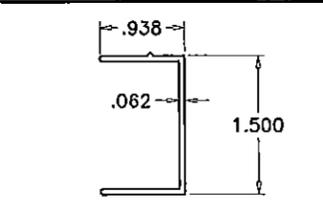
9 GLAZING BEAD



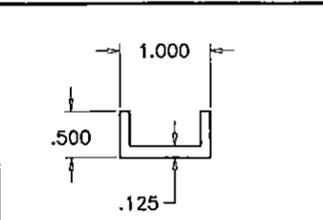
7 SASH SIDE RAIL



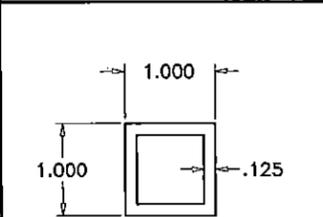
2 FRAME SILL



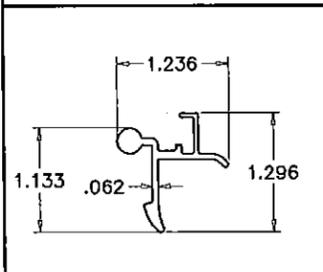
8 VENT STOP



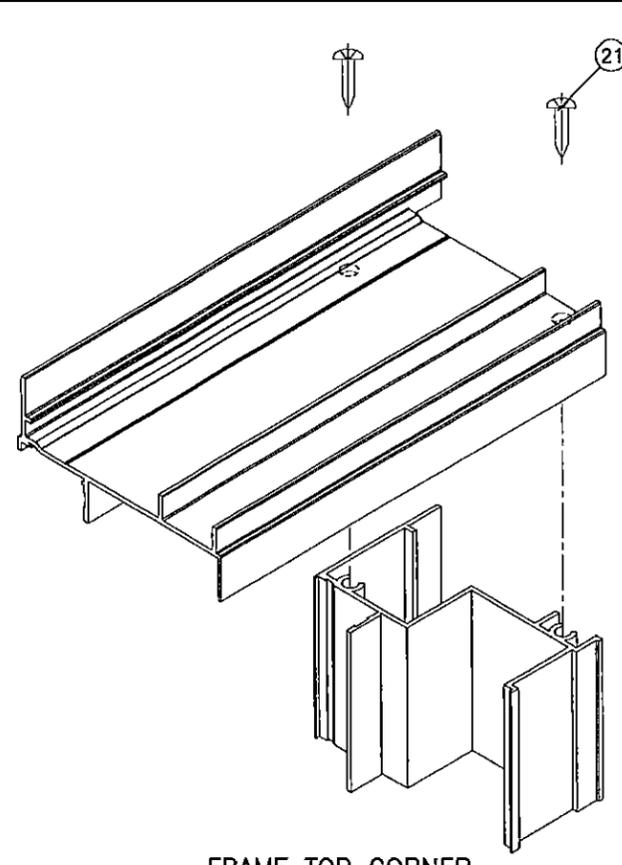
26 MTG. RAIL REINFORCING



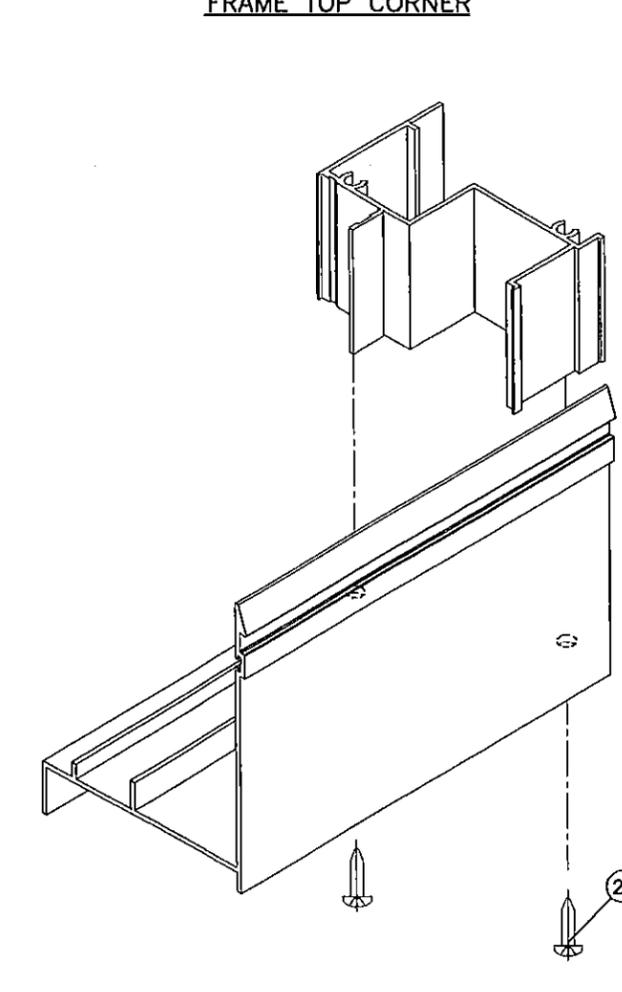
25 TOP RAIL REINFORCING



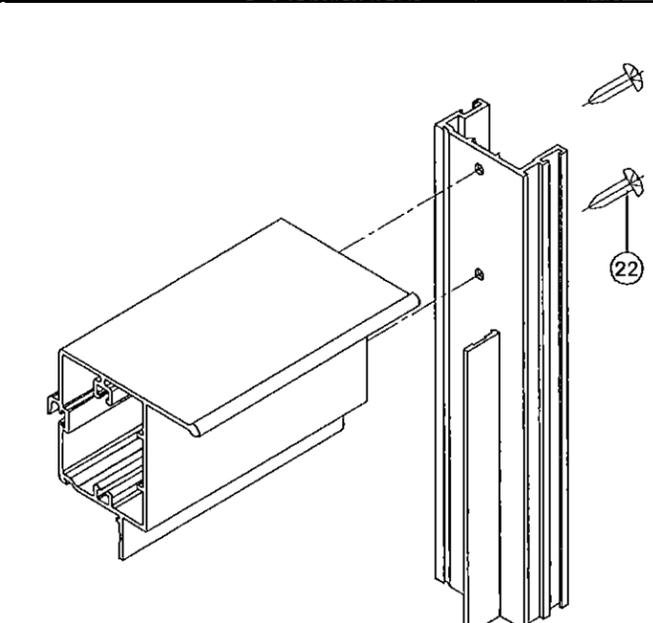
15A LATCH LOCK



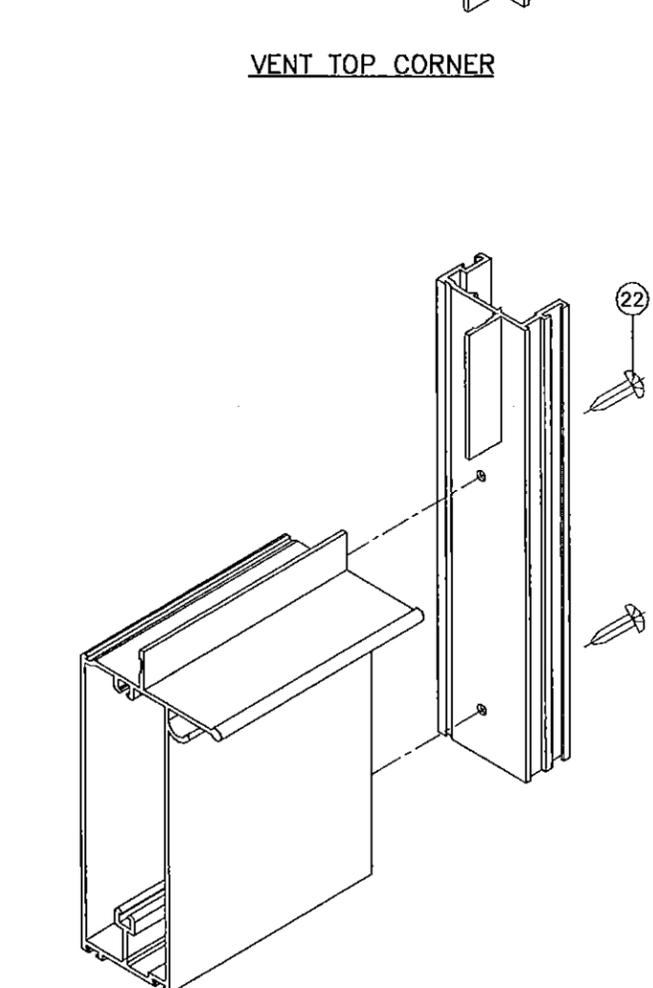
FRAME TOP CORNER



FRAME BOTTOM CORNER



VENT TOP CORNER



VENT BOTTOM CORNER

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