



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA

PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175

T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Wausau Window and Wall Systems**

**A Division of Apogee Wausau Group, Inc.**

**7800 International Drive**

**Wausau, WI 54401**

### 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 "3250i/ 4250i- IS/ 4250i-SDH-HP-XLT" Thermal Broken Outswing Aluminum Casement Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W13-29**, titled "Series 325i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)", sheets 01 through 30 of 30, dated 06/04/13 with revision "C" dated 03/19/19, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Section Renewal 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, 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 **renews NOA#13-0917.04** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P. E.**

MIAMI-DADE COUNTY  
APPROVED

S.Z.  
05/21/2020

NOA No. 20-0429.01

Expiration Date: May 21, 2025

Approval Date: May 21, 2020

Page 1

**Wausau Window and Wall Systems,**  
**A Division of Apogee Wausau Group, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W13-29**, titled "Series 325i-4250i-HP-XLT P.I. Casement Wdw. (L.M.I.)", sheets 01 through 30 of 30, dated 06/04/13 with revision "**B**" dated 03/13/14, 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 Level "E" 80 feet per second Impact Test per ASTM E 1996 and 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 a Casement Window, prepared by Quast Consulting & Testing, Inc., Test Report No. **QCT-13-2893.01**, dated 05/01/13, signed and sealed by Brain M. Sasman, 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, and TAS 202-94  
along with marked-up drawings and installation diagram of a Casement Window, prepared by Quast Consulting & Testing, Inc., Test Report No. **QCT-13-2892.01**, dated 04/05/13, signed and sealed by Brain M. Sasman, P. E.

**C. CALCULATIONS**

1. Anchor calculations and structural analysis, complying with **FBC-2010**, dated 09/12/13, prepared by Al-Farooq Corporation, dated 01/09/14, signed and sealed by Javad Ahmad, P. E.
2. **Glazing complies with ASTM E1300-04/ 09a**

**D. QUALITY ASSURANCE**

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



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Sifang Zhao, P. E.  
Product Control Examiner  
NOA No. 20-0429.01  
Expiration Date: May 21, 2025  
Approval Date: May 21, 2020

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their “**DuPont SentryGlas® Interlayer**” dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **12-1231.08** issued to **Eastman Chemical Company (MA)** for their “**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**” dated 03/28/13, expiring on 12/11/18.
3. Material Data Sheet for “insulating profiles made of PA 66 GF25 – dry impact resistant, to fit into Technoform I-Strut™ Aluminum Standard Reglet.
4. TREMCO Part **PLOYshim II Tape** complying with AAMA 800-92 Sections 804.3, 806.3 and 807.3, i.e., Cross linked butyl rubber with shore “00” Hardness 57 Durometer; Temperature range 20°F to 120°F; shelf life for 24 months below 80°F; heat resistant after 2 months at 200°F, -20°F and ultraviolet and aging after 1,000 hours excellent adhesion.
5. TREMCO Part **EDPM Wedge Gaskets** complying with the following:  
ASTM D 2240 Shore “A” Hardness 68-71 Durometer; ASTM C746 Brittleness Temperature -40°F passed; ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension of 1810-1925 PSI; ASTM D395B Test Methods for Rubber Property—Compression Set for 22 HRS 158°F 22%-28%; ASTM D 624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers of 143 lb./ in.—209 lb./in. and ASTM D 1149 Ozone resistance 6.852 ft.-psf for 100 hrs. at 104°F w/ 22% elongation.
6. TREMCO Part **Dense Rubber Setting Block** complying with the following:  
ASTM D 2240 Shore “A” Hardness 80 Durometer; ASTM C746 Brittleness Temperature -40°F passed; ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension of 1095 PSI; ASTM D395B Test Methods for Rubber Property—Compression Set for 22 HRS 158°F 12.9%; ASTM D 624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers of 92 lb./ in.
7. Test report No. **ATI-61261.01-106-18**, prepared by Architectural Testing, Inc., dated 12/08/05, with revision date 01/04/06, issued to **Technoform**, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D635-03** “Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position” and **ASTM D2843-99** “Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics”, signed and sealed by Joseph A. Reed, P. E.



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Sifang Zhao, P. E.  
Product Control Examiner  
NOA No. 20-0429.01  
Expiration Date: May 21, 2025  
Approval Date: May 21, 2020

**Wausau Window and Wall Systems,**  
**A Division of Apogee Wausau Group, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS (CONTINUED)**

8. Test report No. **ETC-07-1043-19094.0**, prepared by ETC Laboratories, dated 02/04/08, issued to Technoform Bautech NA, Inc., for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D638-03** "*Standard Test Methods for Tensile Properties of Plastics*", for exposed & unexposed sample per Xenon Arc after 4500 Hours, signed and sealed by Joseph Labora Doldan, P. E.
9. **Tensile Test** prepared by Certified Testing Laboratories, Test Report No. **CTLA-718WB/ DADE 01021 and 719G / DADE 01021**, dated 11/ 29/01 and 06/04/01, tested per **ASTM E8/A370 or B557**, signed and sealed by Ramesh C. Patel, P. E.
10. Test report No. **ETC-08-1043-20974.0**, prepared by ETC Laboratories, dated 07/01/08, issued to Technoform, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D1929-96** "*Standard Test Method for Ignition Properties of Plastics*", signed and sealed by Joseph Doldan, P. E.

**F. STATEMENTS**

1. Statement letter of conformance and complying with **FBC-2014**, issued by Al-Farooq Corporation, dated 04/02/14, signed and sealed by Javad Ahmad, P. E.
2. Statement letter of no financial interest, conformance and complying with **FBC-2010**, issued by Al-Farooq Corporation, dated 07/08/13, signed and sealed by Javad Ahmad, P. E.
3. Laboratory compliance letter for Test Reports No.'s **QCT-13-2892.01** and **QCT-13-2893.01**, issued by Quast Consulting & Testing, Inc., dated 04/05/13 and 05/01/13, both signed and sealed by Brain M. Sasman, P. E.
4. Proposal No. **12-2167** issued by Product Control, dated 02/11/13, signed by Manuel Perez, P. E.

**G. OTHERS**

1. None.



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Sifang Zhao, P. E.  
Product Control Examiner  
NOA No. 20-0429.01  
Expiration Date: May 21, 2025  
Approval Date: May 21, 2020

**Wausau Window and Wall Systems,**  
**A Division of Apogee Wausau Group, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W13-29** titled “Series 325i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)”, sheets 01 through 30 of 30, dated 06/04/13 with revision “C” dated 03/19/19, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

**B. TESTS**

1. None

**C. CALCULATIONS**

1. Anchor verification calculations complying with **FBC 6<sup>th</sup> Edition (2017)**, dated 04/10/2019, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. NOA No. **17-0808.02** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/28/17, expiring on 07/04/23.
2. NOA No. **18-0301.06** issued to **Eastman Chemical Company (MA)** for their “**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**” dated 05/17/18, expiring on 12/11/23.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, and of no financial interest, dated April 10, 2019, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **13-0917.04**, issued to Wausau Window and Wall Systems for their Series “**3250i/ 4250i/ 4250i-IS/ 4250i-SDH-HP-XLT**” **Thermal Broken Outswing Aluminum Casement Window – L.M.I.**, approved on 04/03/14 and expiring on 04/03/19.



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**Sifang Zhao, P. E.**  
**Product Control Examiner**  
**NOA No. 20-0429.01**  
**Expiration Date: May 21, 2025**  
**Approval Date: May 21, 2020**

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

Series 3250i-4250i-HP-XLT  
Aluminum P.O. Casement Window

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE  
COMBINATIONS OF TWO OR MORE UNITS.  
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

FOR SINGLE CASEMENT WINDOWS DESIGN LOAD CAPACITY SEE TABLE #1.

FOR CASEMENT-FIXED AND CASMT-CASMT COMBINATION WITH INTEGRAL IMPOST,  
SEE TABLE #1 FOR CASEMENT WINDOW CAPACITY, TABLE #2 FOR IMPOST  
CAPACITY AND SEPARATE NOA FOR FIXED LITE CAPACITY.  
LOWER VALUE FROM TABLES 1, 2 OR FIX LITE NOA WILL APPLY TO ENTIRE SYSTEM.

FOR CASEMENT-FIXED AND CASMT-CASMT COMBINATION WITH STACK MULLION  
SEE TABLE #1 FOR CASEMENT WINDOW CAPACITY, TABLE #3 FOR STACK MULLION  
CAPACITY AND SEPARATE NOA FOR FIXED LITE CAPACITY.  
LOWER VALUE FROM TABLES 1, 3 OR FIX LITE NOA WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE  
INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE  
DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS  
TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS  
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE  
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION  
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY  
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR  
WATER INFILTRATION RESISTANCE ETC.  
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,  
AND TO BE REVIEWED BY BUILDING OFFICIAL.

INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	CASEMENT WINDOW, IMPOST AND MULLION CAPACITY CHARTS
3	SINGLE WINDOW ELEVATIONS ANCHOR SPACING FOR THREE ANCHORING METHODS
4	WINDOW ELEVATIONS WITH IMPOST & MULLION ANCHORS QUANTITIES AT IMPOST AND MULLION ENDS
5	GLAZING DETAILS LEVEL 'D' IMPACT
6	GLAZING DETAILS LEVEL 'E' IMPACT
7 THRU 10	P.O. CASEMENT WINDOW VERTICAL AND HORIZONTAL SECTION DETAILS STANDARD FRAMES ANCHORS THRU SLIDE IN CLIPS AT FRAME
11 & 12	FIXED LITE VERTICAL AND HORIZONTAL SECTION DETAILS STANDARD FRAMES ANCHORS THRU SLIDE IN CLIPS AT FRAME
13	ALTERNATE ANCHORING METHOD ANCHORS THRU SLIDE IN CLIPS AT RECEPTOR
14	ALTERNATE ANCHORING METHOD ANCHORS DIRECTLY THRU RECEPTORS
15 THRU 18	EXTRUSION DETAILS FOR STANDARD FRAMES
19	BILL OF MATERIALS
20	CORNER CONSTRUCTION DETAILS
21 THRU 25	VERTICAL AND HORIZONTAL SECTION DETAILS ALTERNATE OS FRAME OPTION
26 THRU 30	VERTICAL AND HORIZONTAL SECTION DETAILS ALTERNATE SDH FRAME OPTION

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
NOA-No. 20-0429.01

Expiration Date May 21, 2025

By   
Miami-Dade Product Control

INSUL. LAM. GLASS  
LARGE MISSILE IMPACT



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems, Inc.**  
Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

revisions:	
no	date
A	12.24.13
B	03.13.14
C	03.19.19
description	
REV. PER REV. COMMENTS	
NO CHANGE THIS SHEET	
UPDATED TO 2017 FBC	
date:	06-04-13
scale:	-
dr. by:	TARIQ
chk. by:	
drawing no.	W13-29
sheet	1 of 30

COMP-ANL\W13-29WW



TABLE #1

CASEMENT WINDOW DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		LEVEL 'D' IMPACT		LEVEL 'E' IMPACT	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	54"	80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0
60"		80.0	80.0	100.0	100.0
36"	60"	80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0
60"		80.0	80.0	100.0	100.0
36"	66"	80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0
60"		80.0	80.0	100.0	100.0
36"	72"	80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
52"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0
36"	74-7/8"	80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
50-7/8"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0

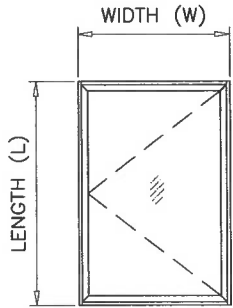
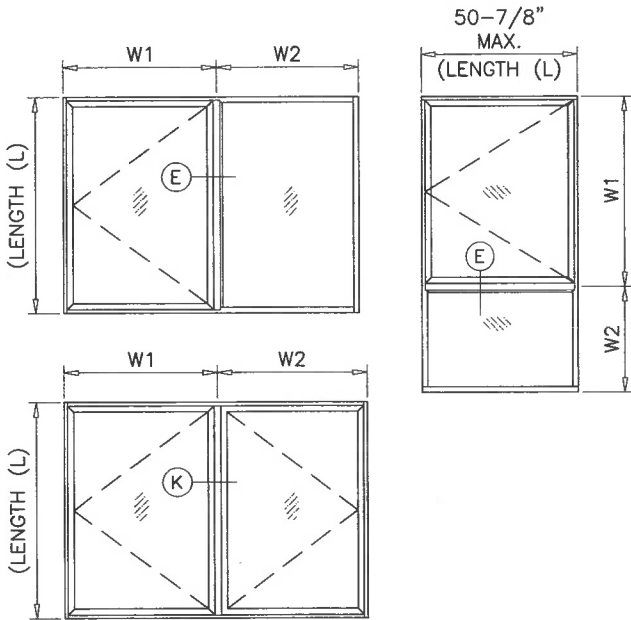


TABLE #2

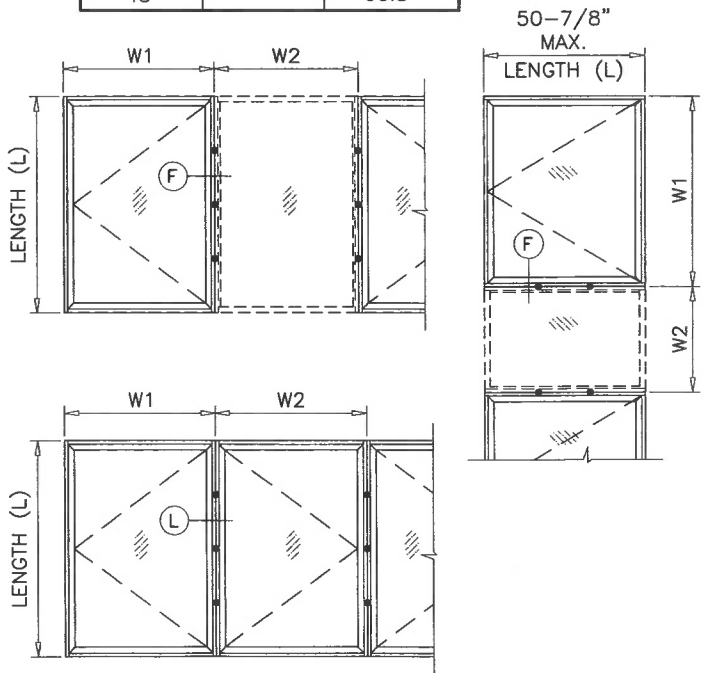
INTEGRAL IMPOST DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		EXT.(+) 1NT.(-)	
WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(-)
24"	54"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	
24"	60"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	
24"	66"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	
24"	72"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	
24"	74-7/8"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	



WIDTH (W) =  $\frac{W1 + W2}{2}$

TABLE #3

STACK MULLION DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		EXT.(+) 1NT.(-)	
WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(-)
24"	54"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	
24"	60"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	
24"	66"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	
24"	72"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	
24"	74-7/8"	100.0	
30"		100.0	
36"		100.0	
42"		100.0	
48"		100.0	
54"		100.0	
60"		100.0	




WIDTH (W) =  $\frac{W1 + W2}{2}$

FOR FIXED LITE WINDOWS SEE SEPARATE NOA FOR DESIGN LOAD RATING AND DETAILS

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0429.01  
Expiration Date May 21, 2025  
By   
Miami-Dade Product Control



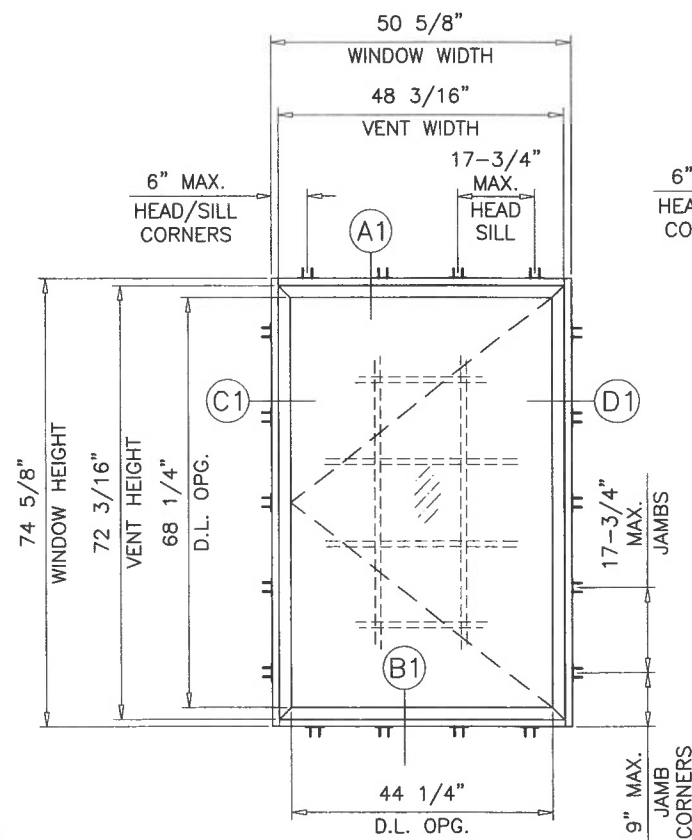
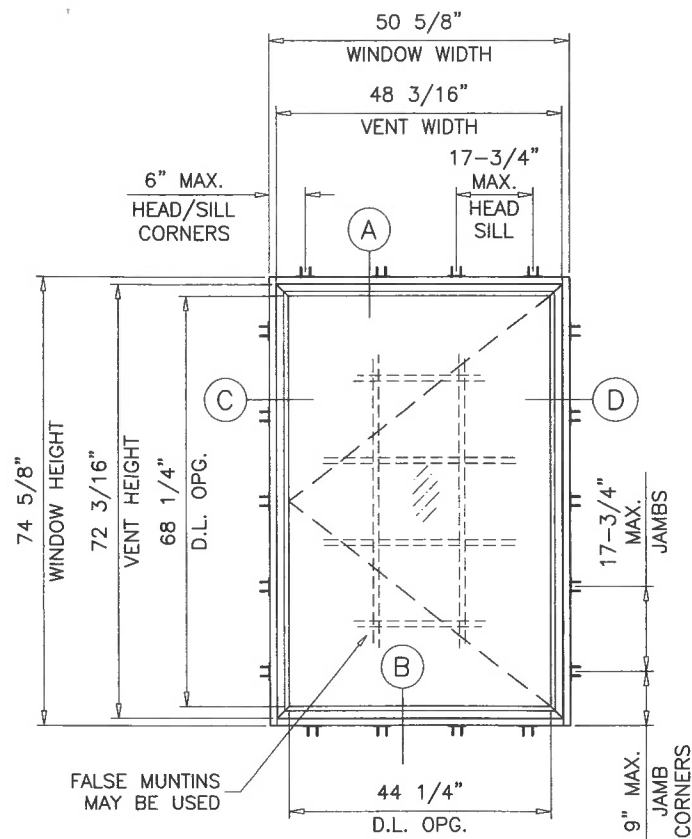
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems, Inc.**  
Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

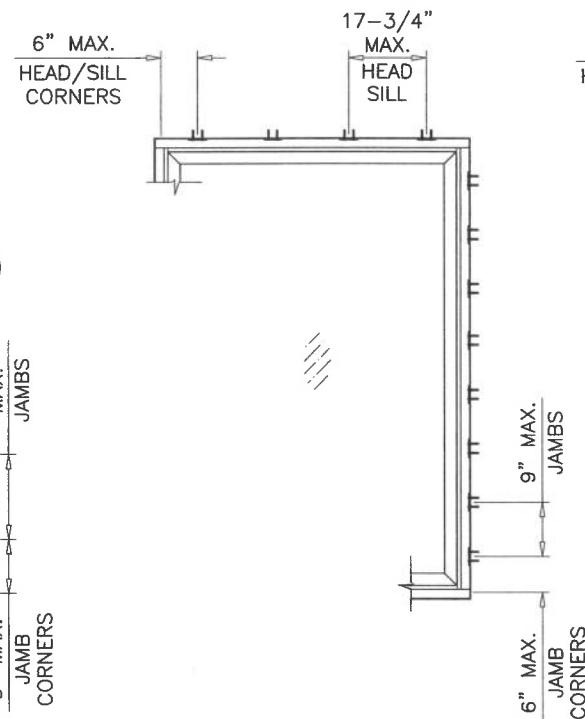
revisions:  
no. date by description  
A 12.24.13 REV. PER PER COMMENTS  
B 03.13.14 NO CHANGE THIS SHEET  
C 03.19.19 UPDATED TO 2017 FBC

date: 06-04-13  
scale: -  
dr. by: TARIQ  
chk. by:

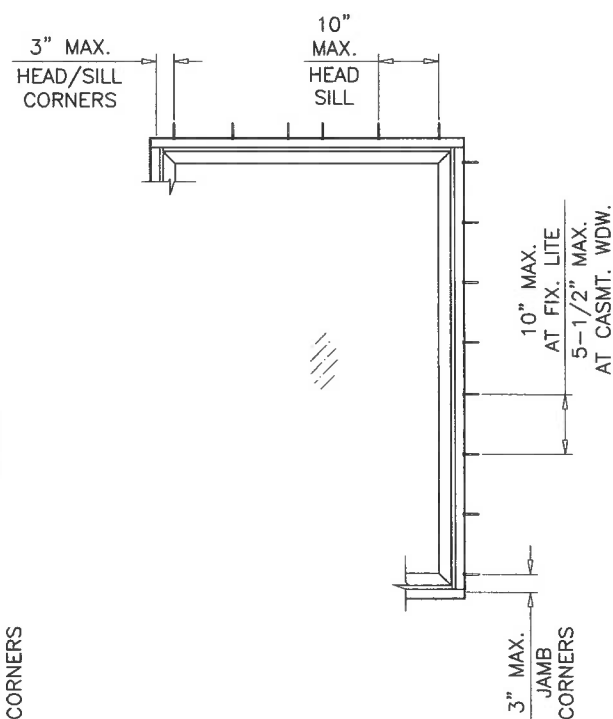
drawing no.  
**W13-29**  
sheet 2 of 30



**ANCHORS THRU  
SLIDE IN CLIPS AT FRAMES  
LEVEL 'D' & 'E' IMPACT**  
SEE SHEETS 7 & 8 FOR DETAILS



**ANCHORS THRU  
SLIDE IN CLIPS AT RECEPTOR  
LEVEL 'D' IMPACT ONLY**  
SEE SHEET 13 FOR DETAILS



**ANCHORS  
DIRECTLY THRU RECEPTOR  
LEVEL 'D' IMPACT ONLY**  
SEE SHEET 14 FOR DETAILS

# **TYPICAL ELEVATIONS**


WOOD BUCKS AND METAL STRUCTURE NOT BY 'WAUSAU'  
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 WOOD STRUCTURES  
2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)  
DIRECTLY INTO CONCRETE OR BLOCKS  
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
2" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

**1/4" DIA. TEKS OR SELF-DRILLING SCREWS** (GRADE 5 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
AND  
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. ( $F_y = 36$  KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**CRITICAL EDGE DISTANCE**  
INTO CONCRETE = 1-1/2" MIN.  
INTO MASONRY BLOCKS = 2-1/2" 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.

**PRODUCT RENEWED**  
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Building Code  
NOA-No. 20-0429.01  
Expiration Date May 21, 2025  
By   
Miami-Dade Product Control



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP - ANL \ W13-29WW

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32501-42501-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems,**  
Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

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no	date	by	description	no	date
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B	03.13.14	NO CHANGE THIS SHEET			
C	03.19.19	UPDATED TO 2017 FBC			

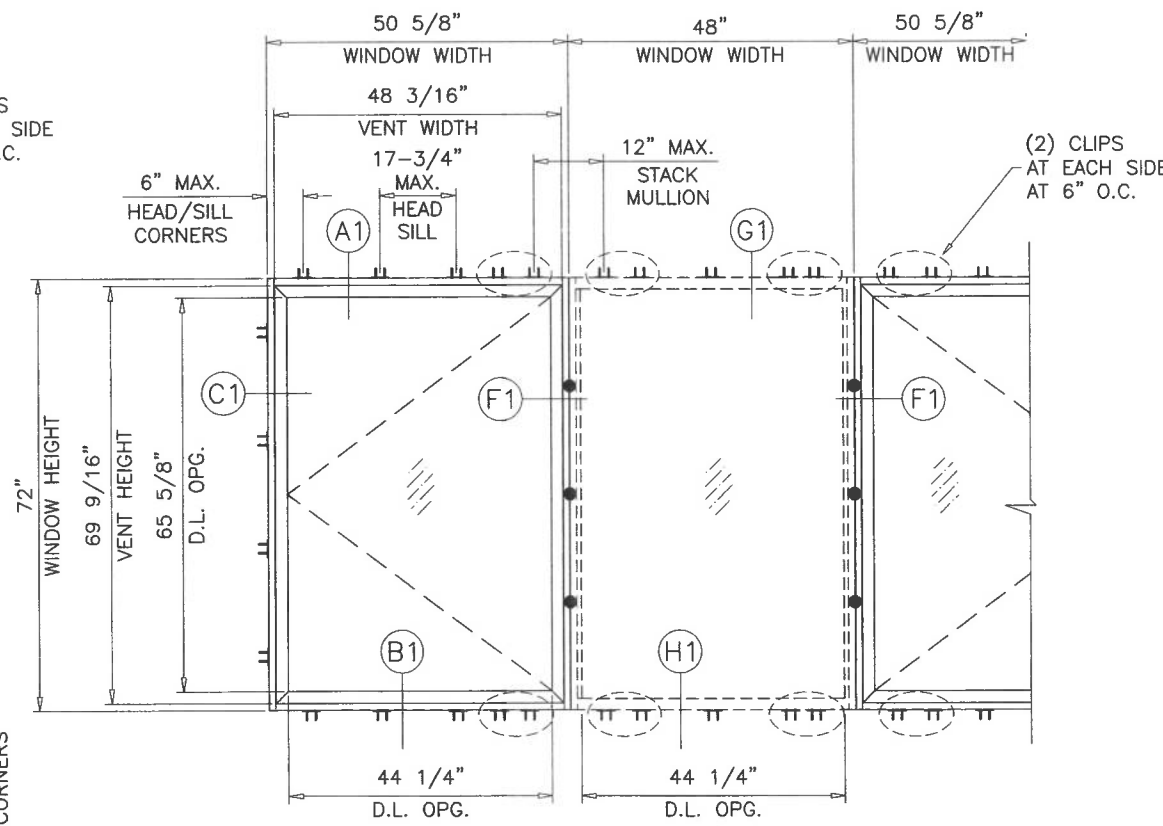
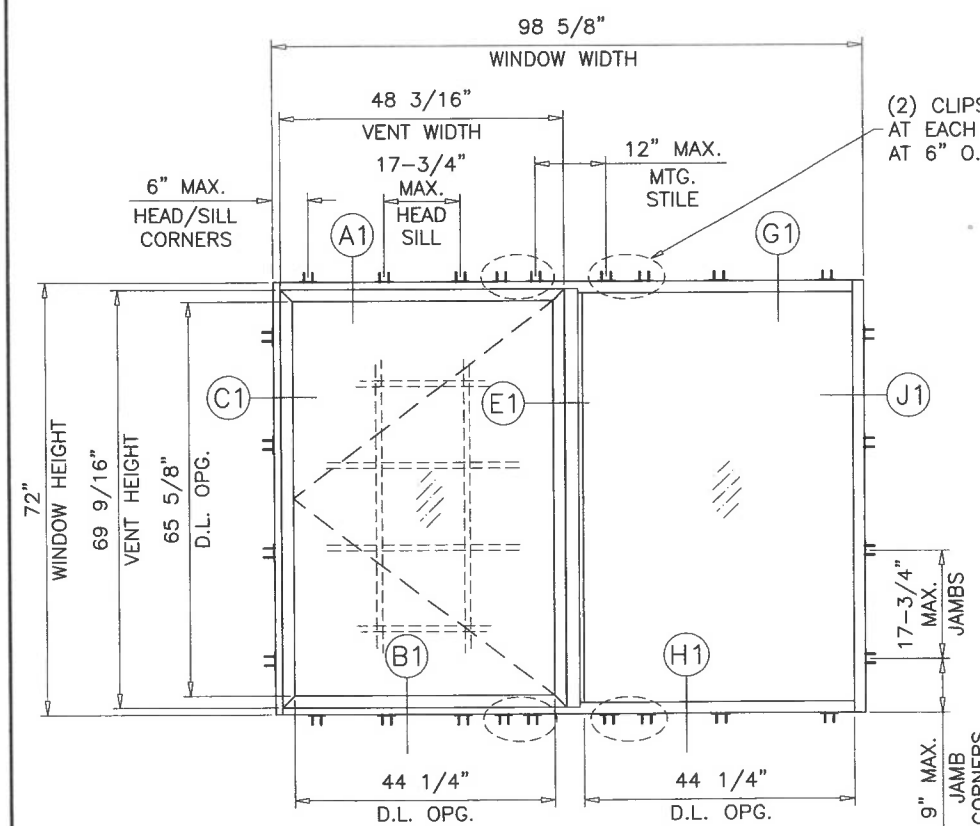
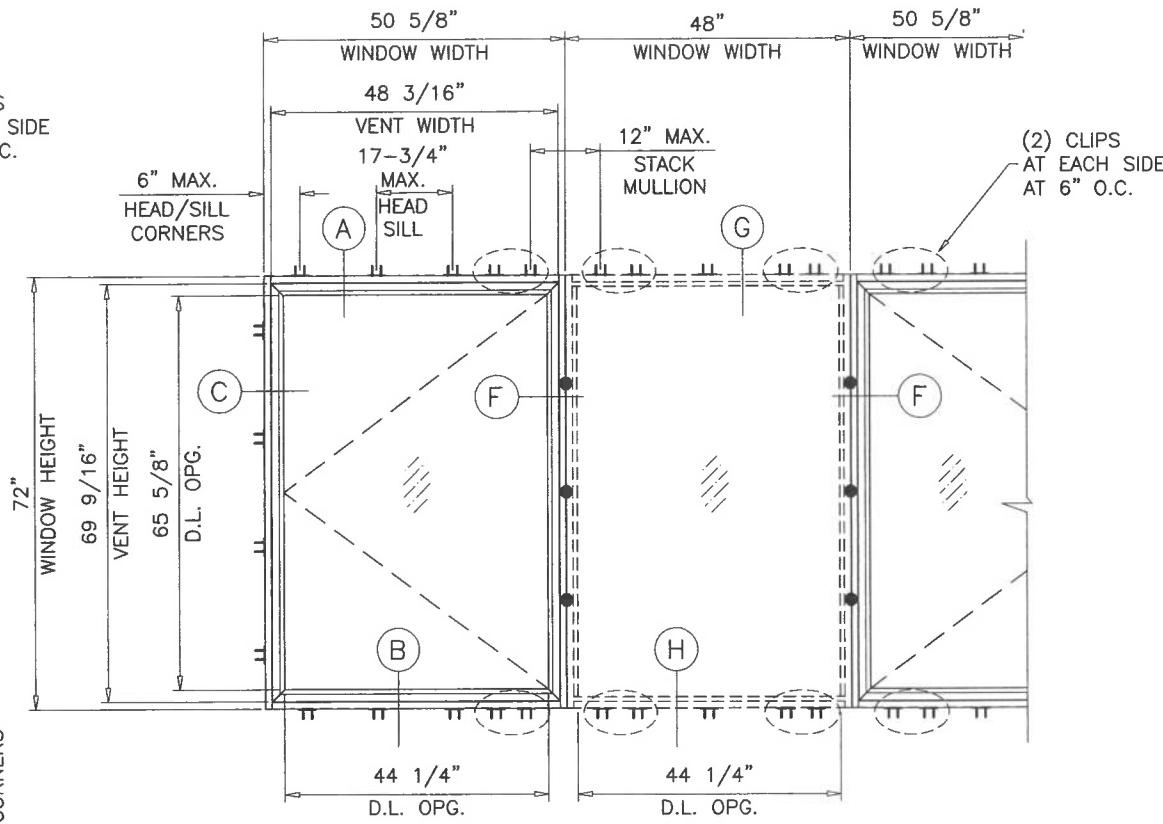
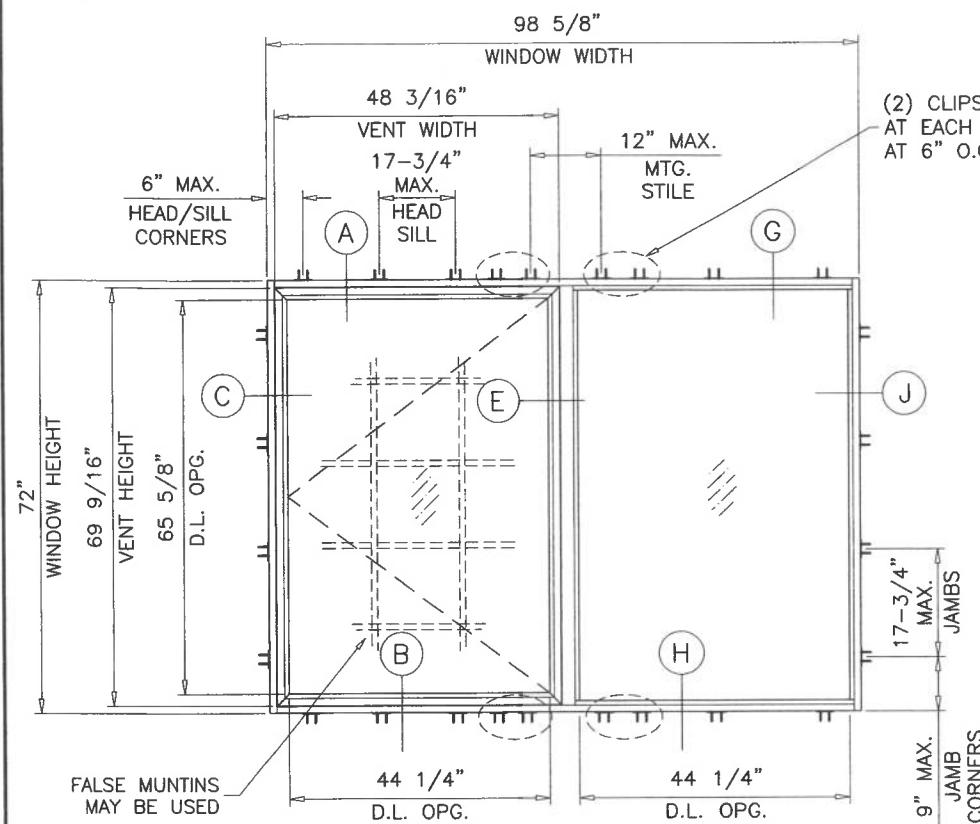
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drawing no. <b>W13-29</b>	sheet 3 of 30
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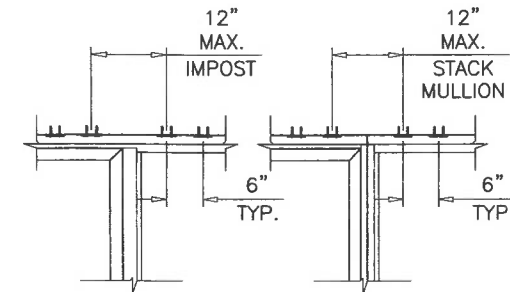




**ANCHORS THRU  
SLIDE IN CLIPS AT FRAMES  
LEVEL 'D' & 'E' IMPACT**

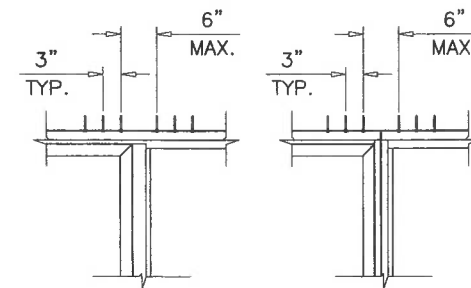
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MTG. STILE AND STACK MULLION ENDS  
SEE SHEET 3 FOR WINDOW ANCHOR SPACING  
AND 7 & 8 FOR DETAILS

TYPICAL ELEVATIONS



**ANCHORS THRU  
SLIDE IN CLIPS AT RECEPTOR  
LEVEL 'D' IMPACT ONLY**

(2) CLIPS AT EACH SIDE OF  
MTG. STILE AND STACK MULLION ENDS  
SEE SHEET 3 FOR WINDOW ANCHOR SPACING  
AND SHEET 13 FOR DETAILS



**ANCHORS  
DIRECTLY THRU RECEPTOR  
LEVEL 'D' IMPACT ONLY**

(3) ANCHORS AT EACH SIDE OF  
MTG. STILE AND STACK MULLION ENDS  
SEE SHEET 3 FOR WINDOW ANCHOR SPACING  
AND SHEET 14 FOR DETAILS

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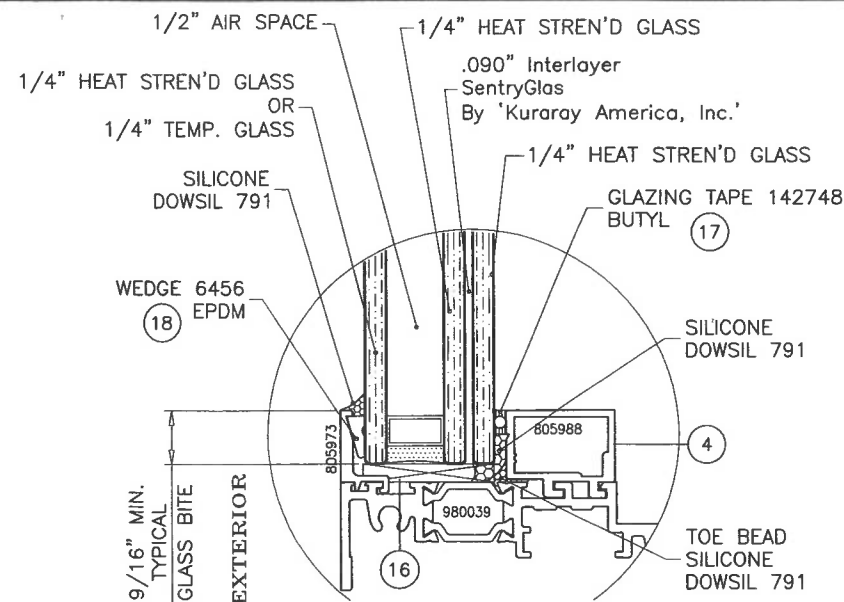
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W13-29WW

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
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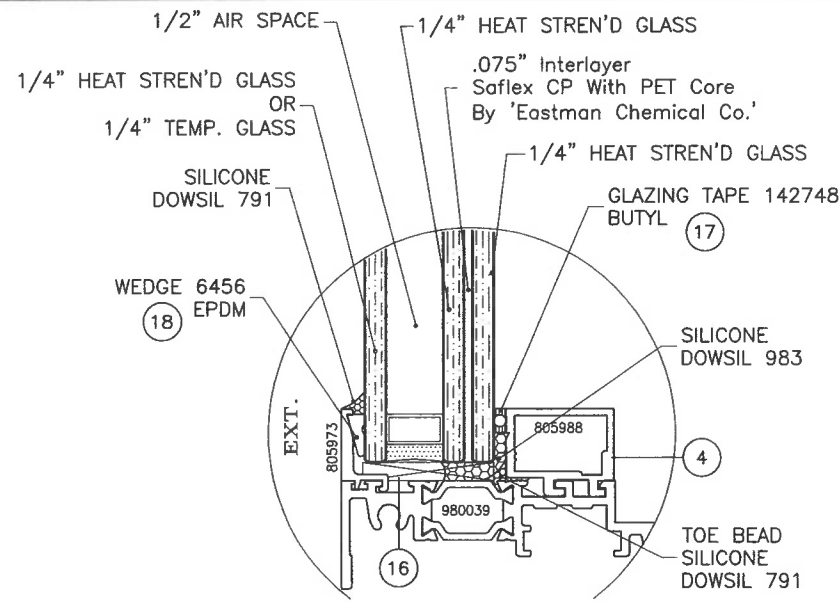
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chk. by:

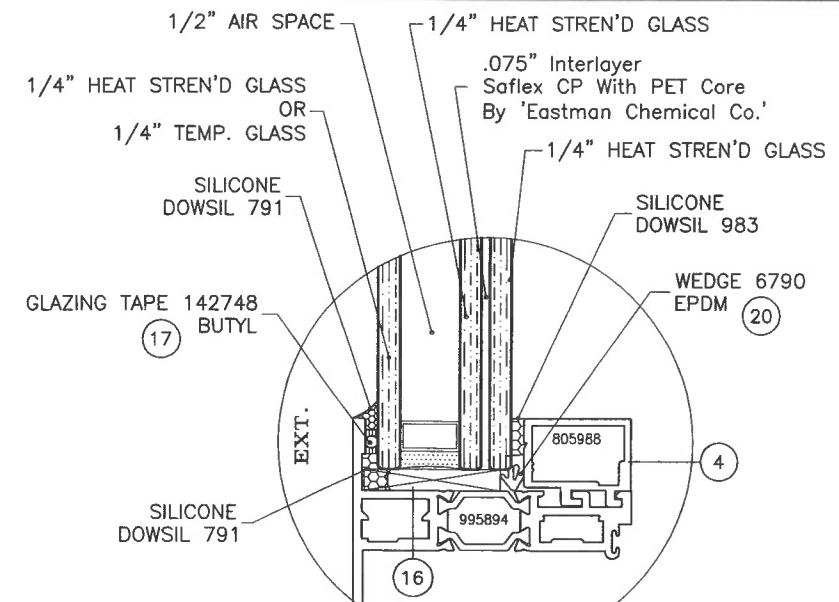
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sheet 4 of 30



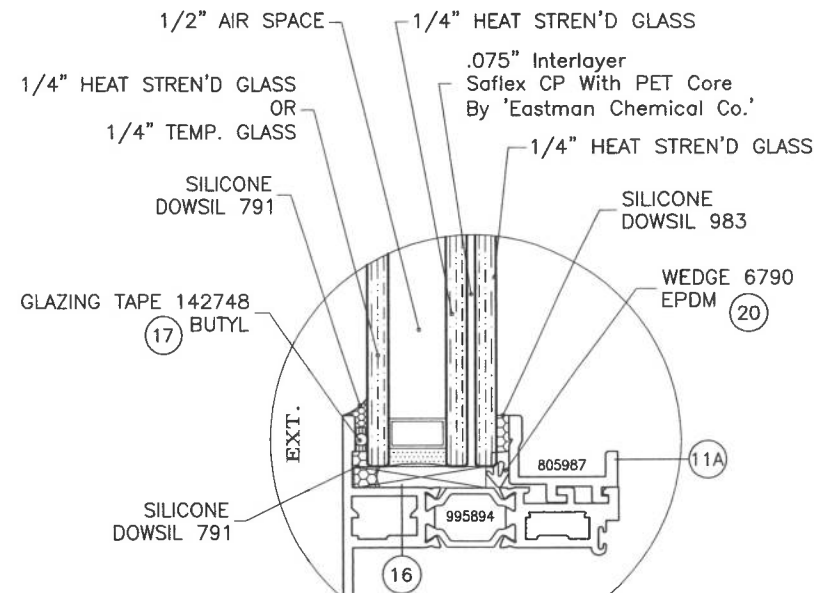
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AT FIXED LITE



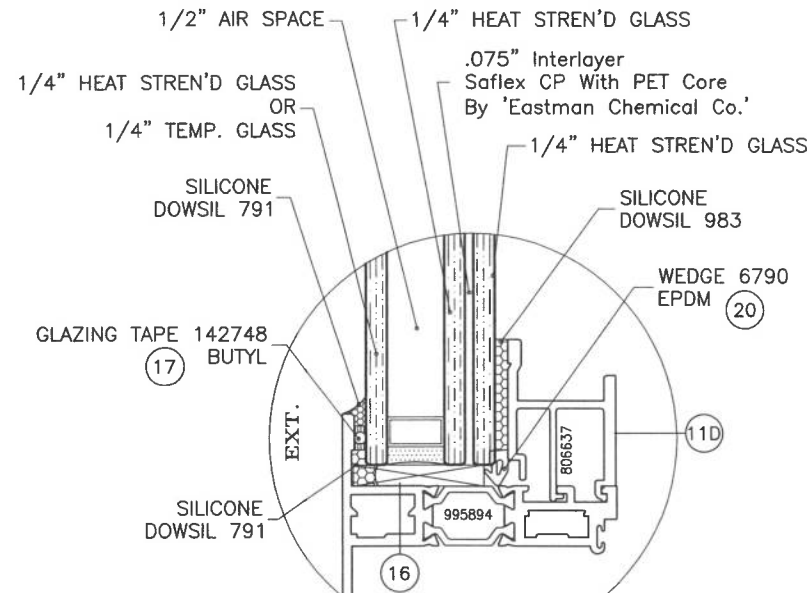
**GLAZING DETAIL #2**  
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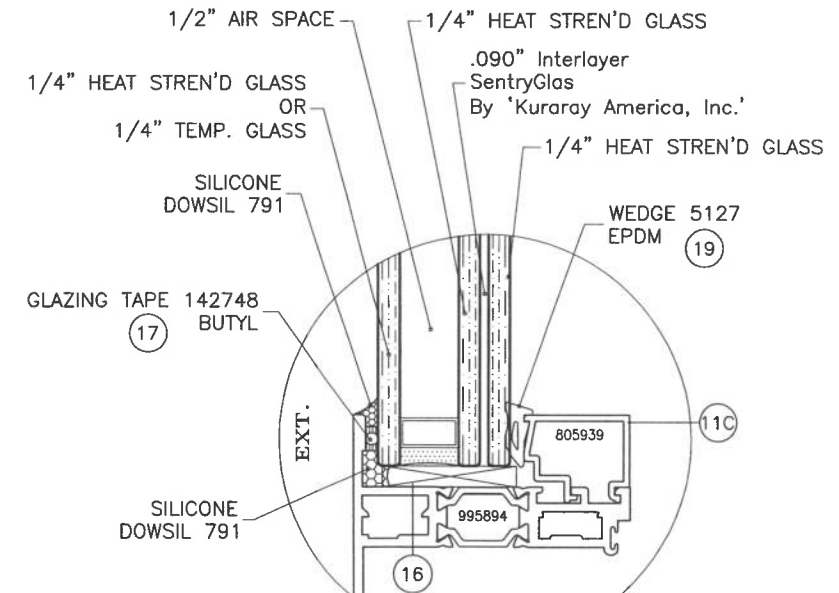
**GLAZING METHOD #3**



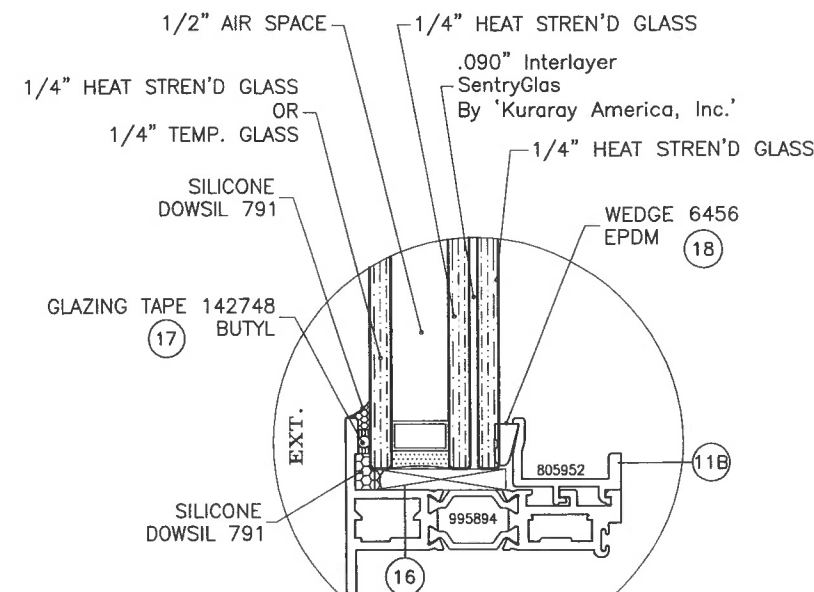
**GLAZING METHOD #4**



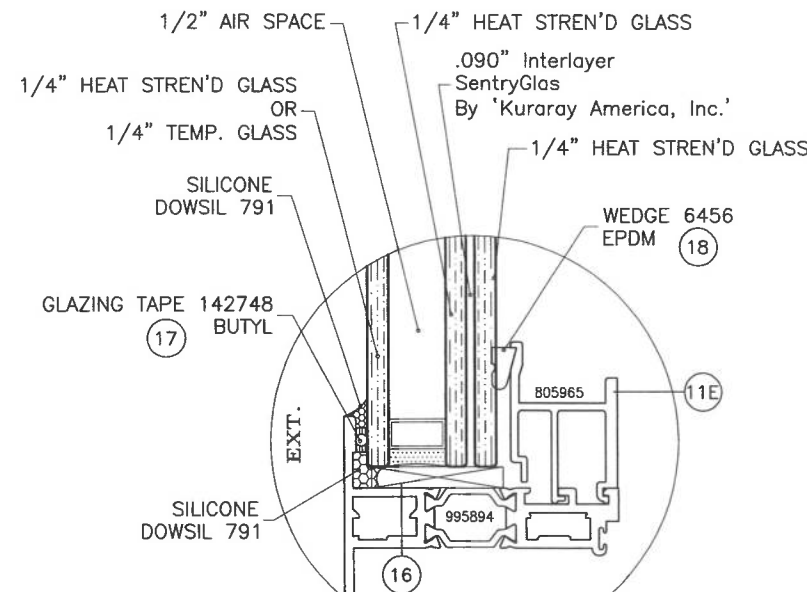
**GLAZING METHOD #5**



**GLAZING METHOD #6**



**GLAZING METHOD #7**



**GLAZING METHOD #8**

**1/2" AIR SPACE CONSISTING OF:**

**SPACER:**

ALUMINUM OR ST. STEEL BOX SPACER AROUND THE PERIMETER OF THE GLASS.

**PRIMARY SEALANT:**

POLYISOBUTYLENE BETWEEN GLASS & SPACER.

**SECONDARY SEALANT:**

SILICONE BETWEEN GLASS PLIES AND OUTER EDGES OF SPACER.

**GLAZING DETAILS LEVEL 'D' IMPACT**

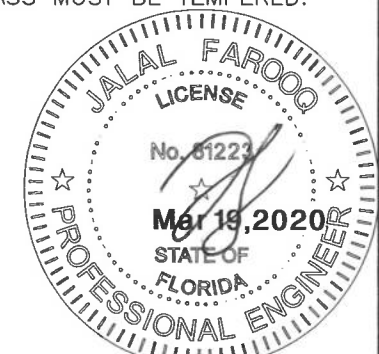
1-5/16" OVERALL INSUL. LAM. GLASS

TO QUALIFY FOR SMALL MISSILE IMPACT RATING EXTERIOR PLY OF INSUL. LAM. GLASS MUST BE TEMPERED.

**PRODUCT RENEWED**  
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Expiration Date May 21, 2025

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Miami-Dade Product Control



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(C.A.N. 3538)

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
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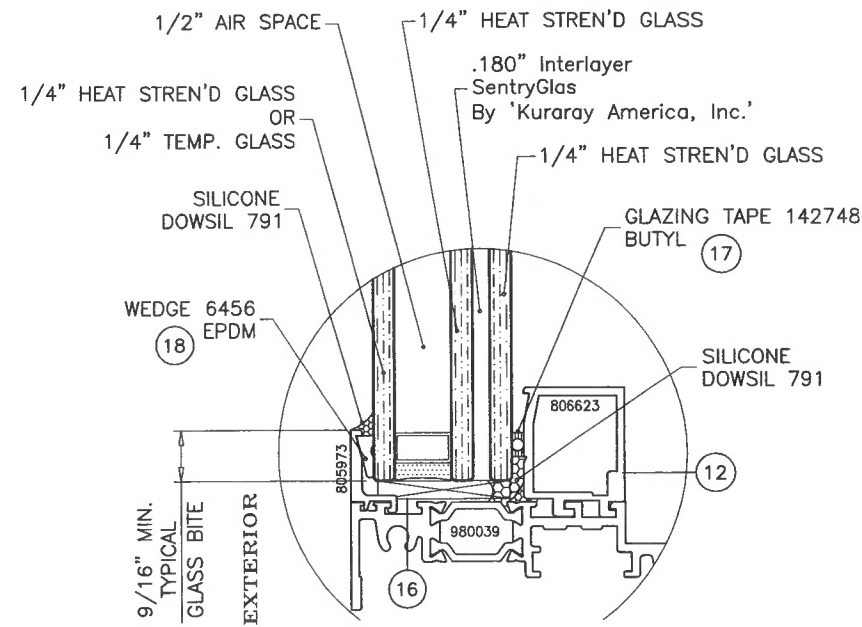
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chk. by:

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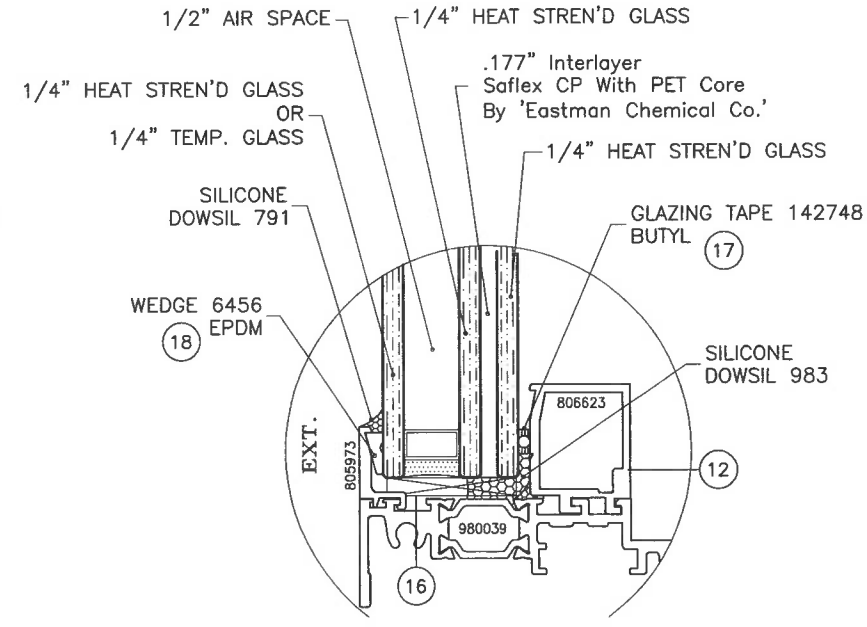
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sheet 5 of 30

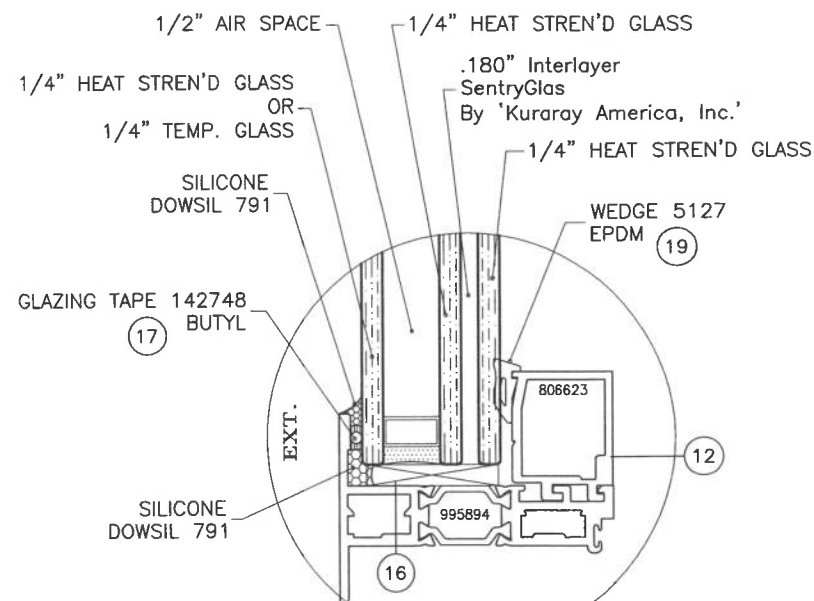




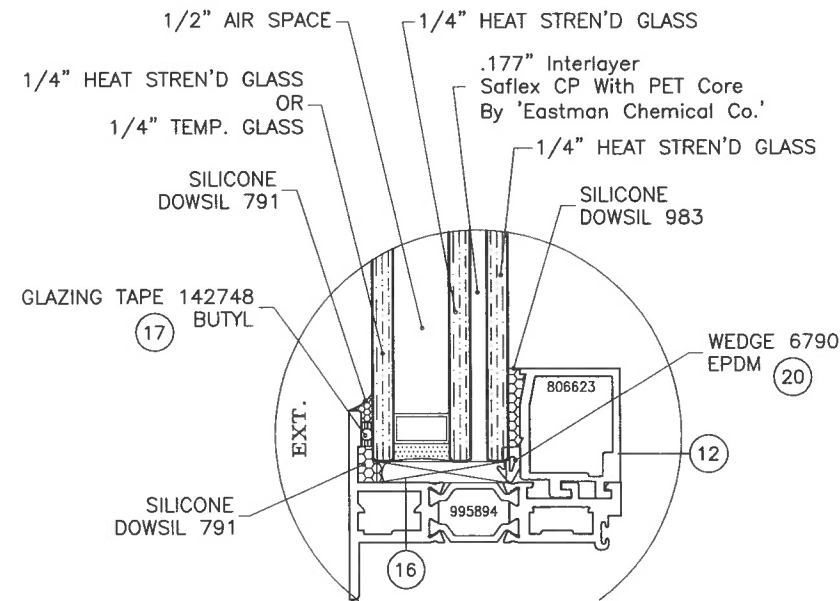
**GLAZING DETAIL #1**  
AT FIXED LITE



**GLAZING DETAIL #2**  
AT FIXED LITE



**GLAZING METHOD #3**



**GLAZING METHOD #4**

**1/2" AIR SPACE CONSISTING OF:**

**SPACER:**

ALUMINUM OR ST. STEEL BOX SPACER AROUND THE PERIMETER OF THE GLASS.

**PRIMARY SEALANT:**

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**GLAZING DETAILS LEVEL 'E' IMPACT**

1-7/16" OVERALL INSUL. LAM. GLASS

TO QUALIFY FOR SMALL MISSILE IMPACT RATING  
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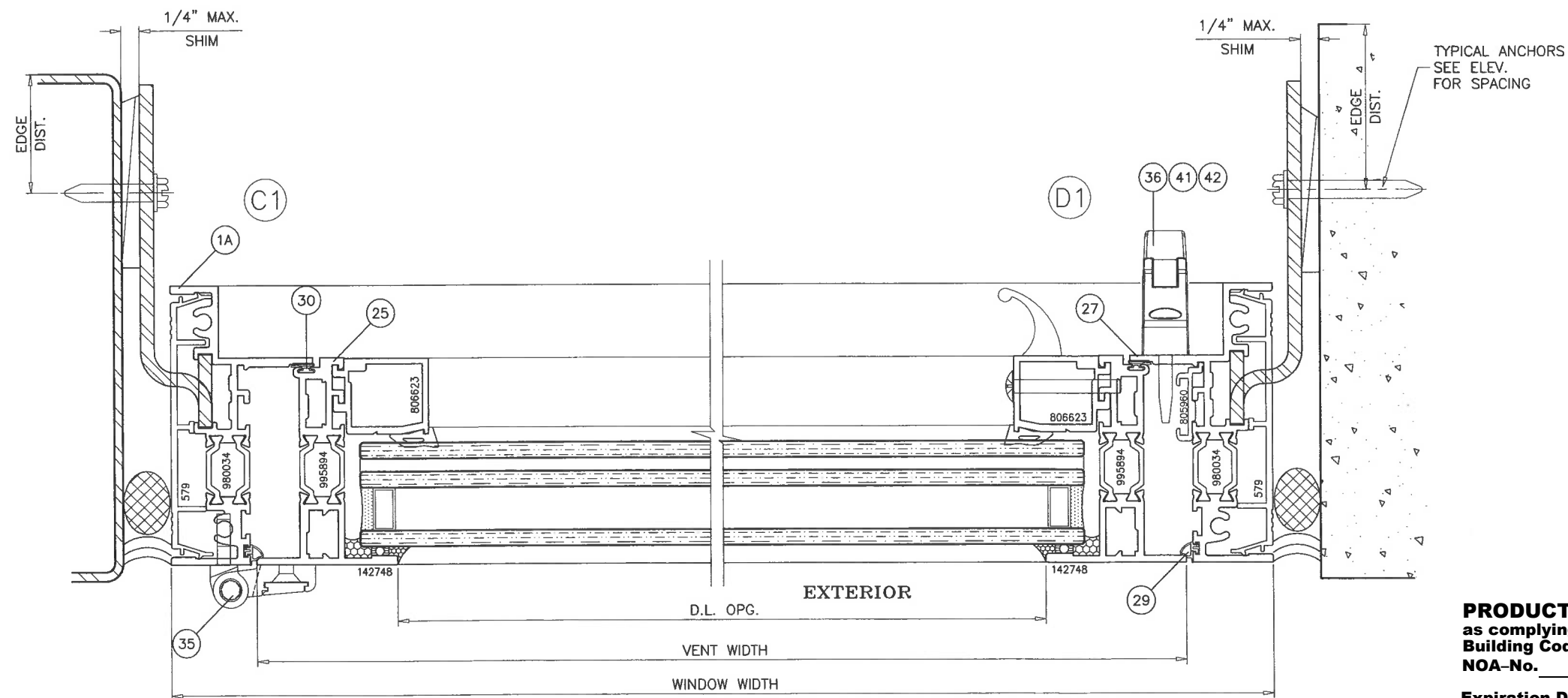
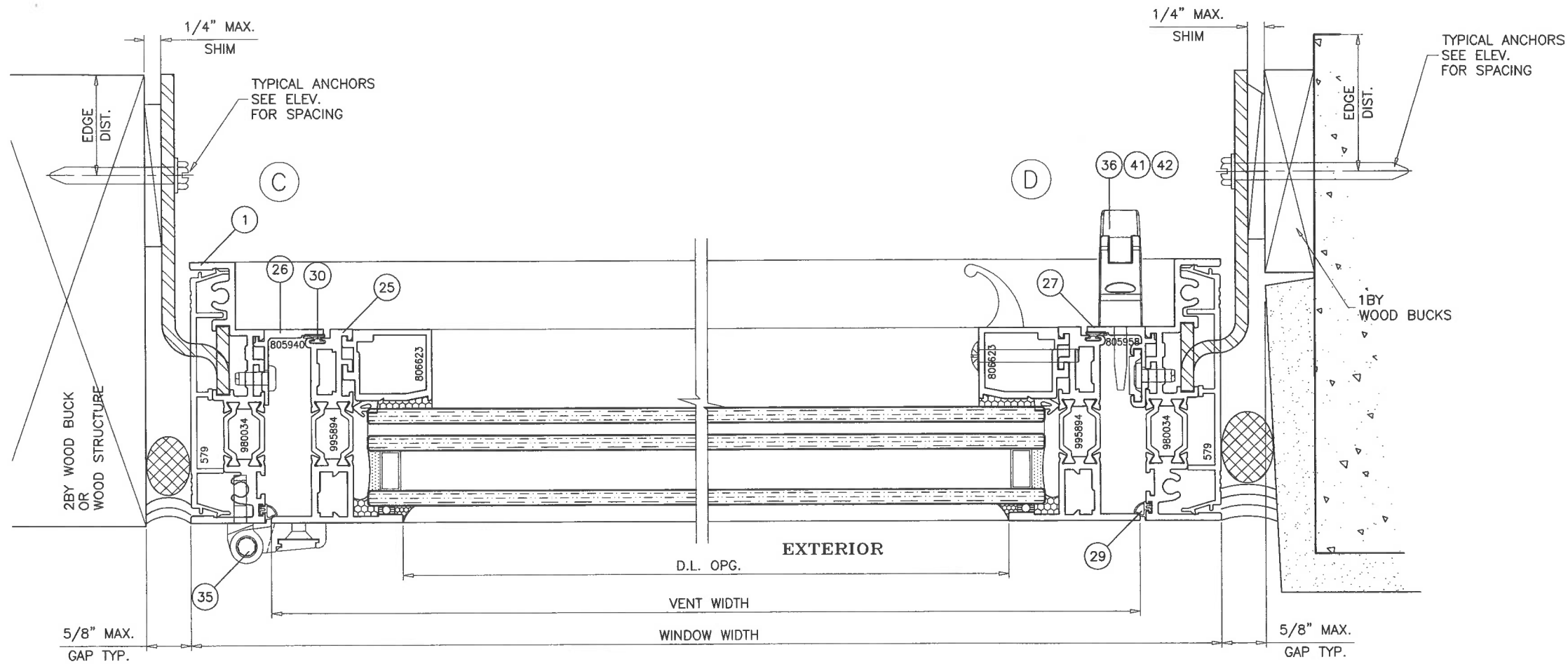
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dr. by:	TARIQ
chk. by:	

drawing no.  
**W13-29**  
sheet 6 of 30

COMP-ANL\W13-29WW







SLIDE IN CLIPS AT FRAME  
ANCHORAGE DETAILS  
LEVEL 'D' & 'E' IMPACT

**PRODUCT RENEWED**  
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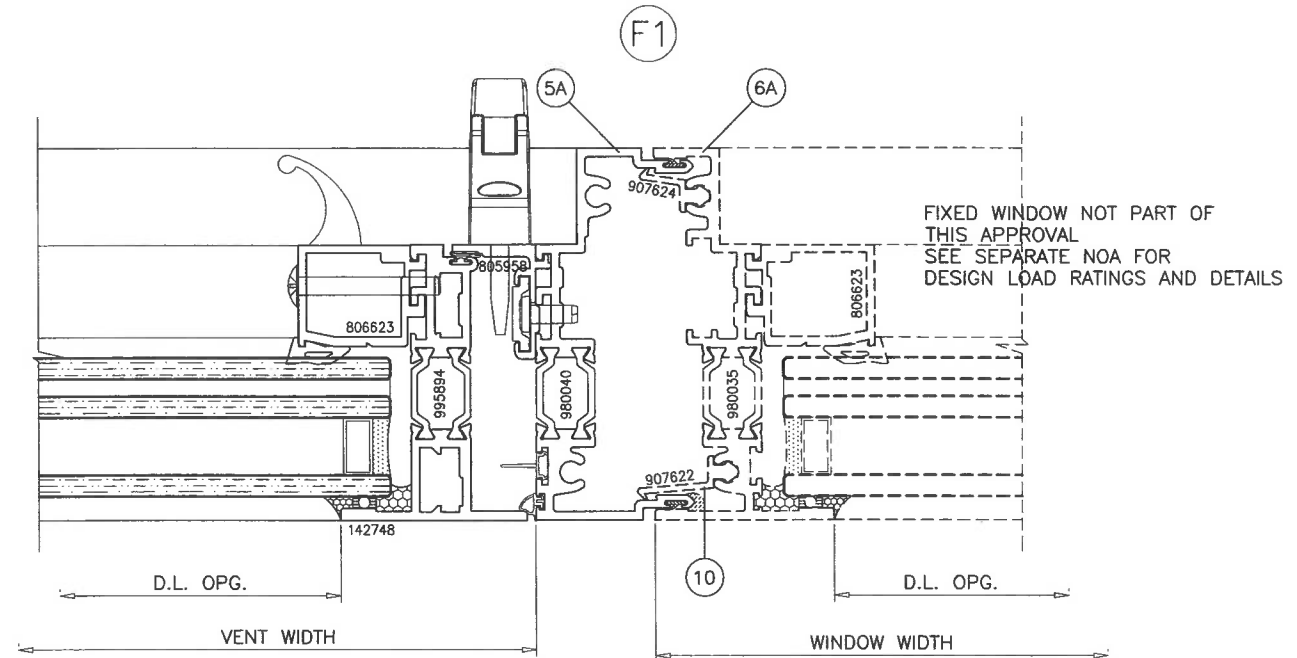
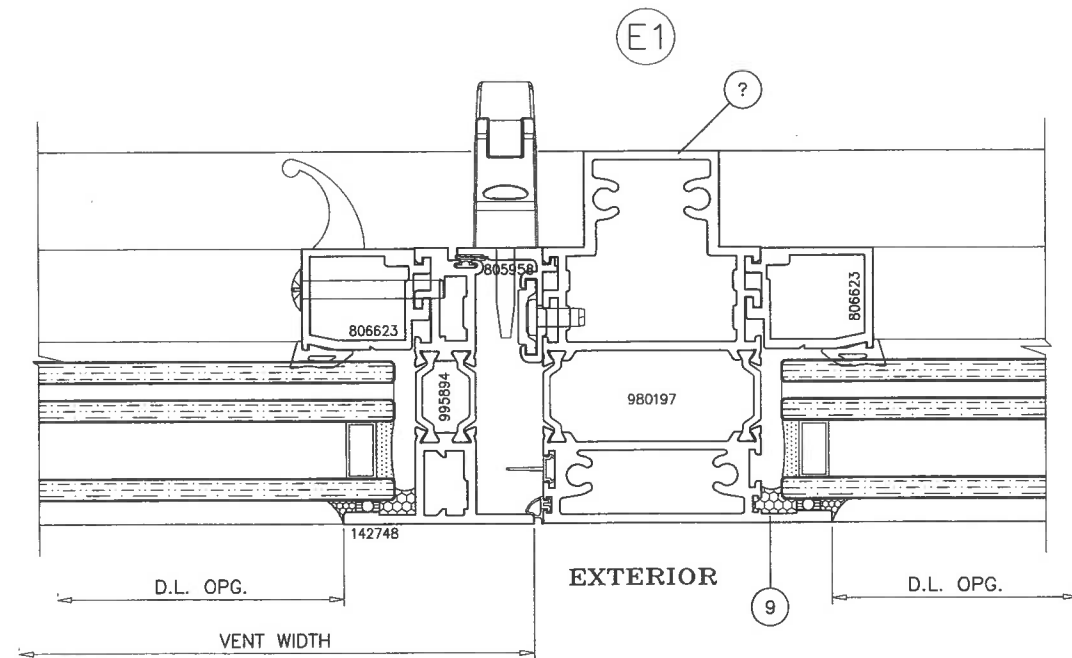
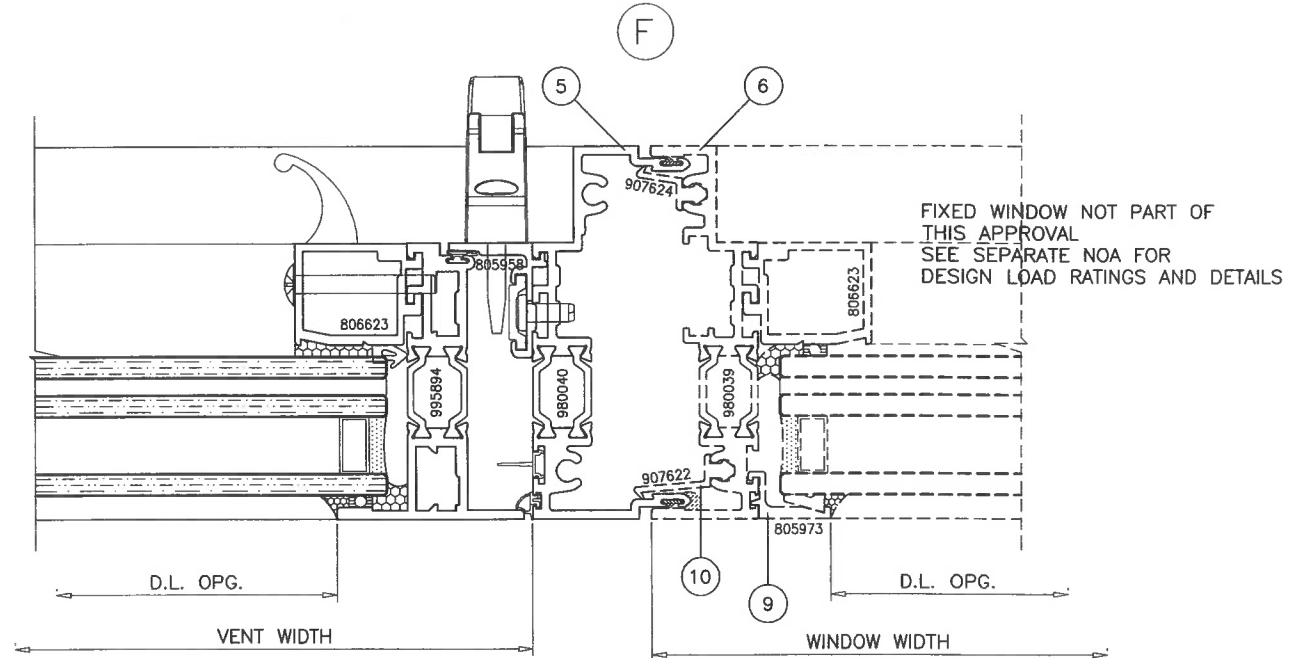
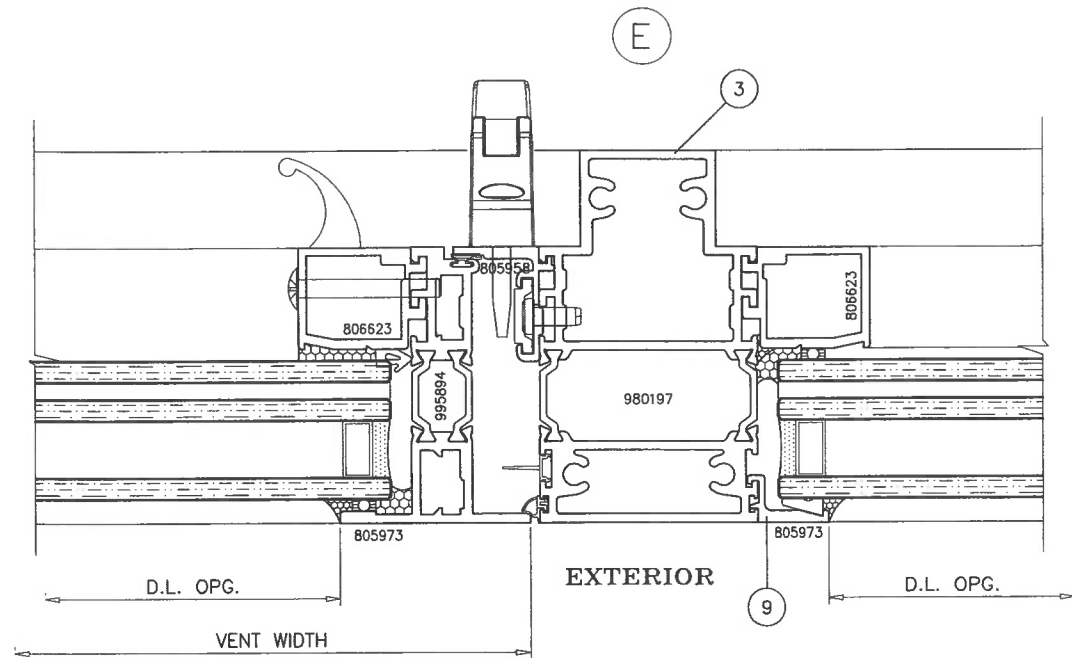
**AL-FAROOQ CORPORATION**  
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drawing no.		W13-29			
sheet		8 of 30			

COMP-ANL\W13-29WW





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3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)

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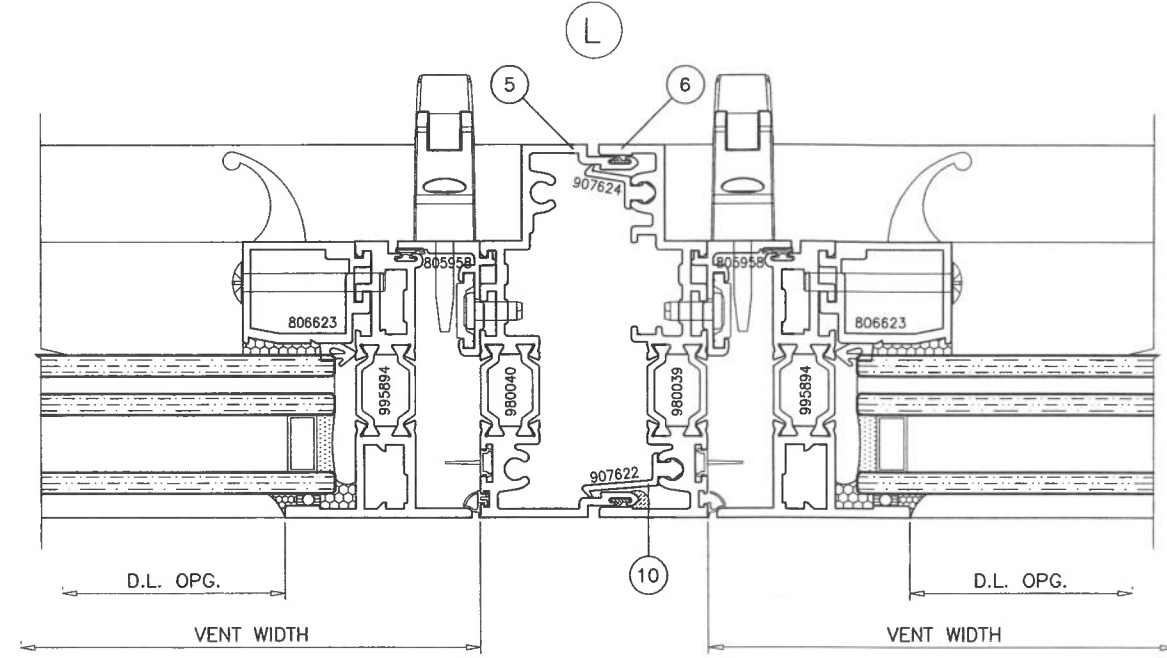
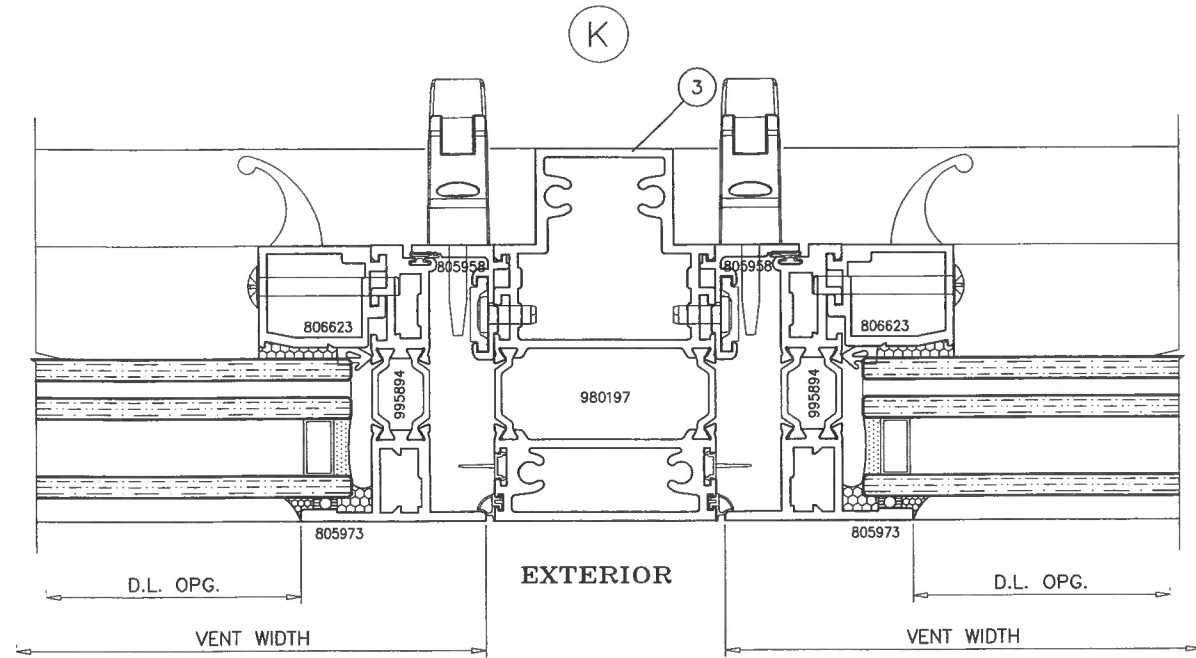
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chk. by:

drawing no.  
**W13-29**

sheet 9 of 30



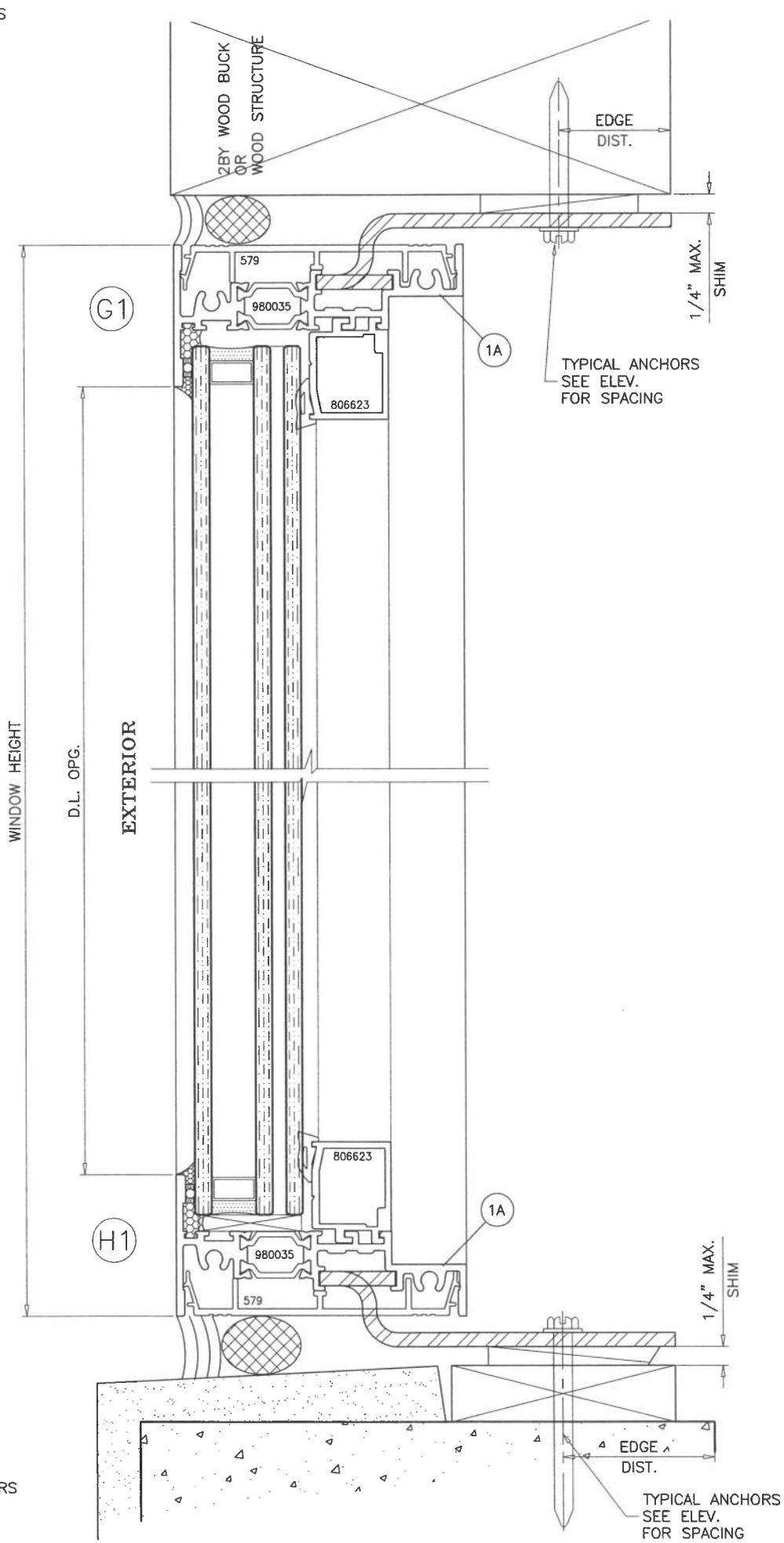
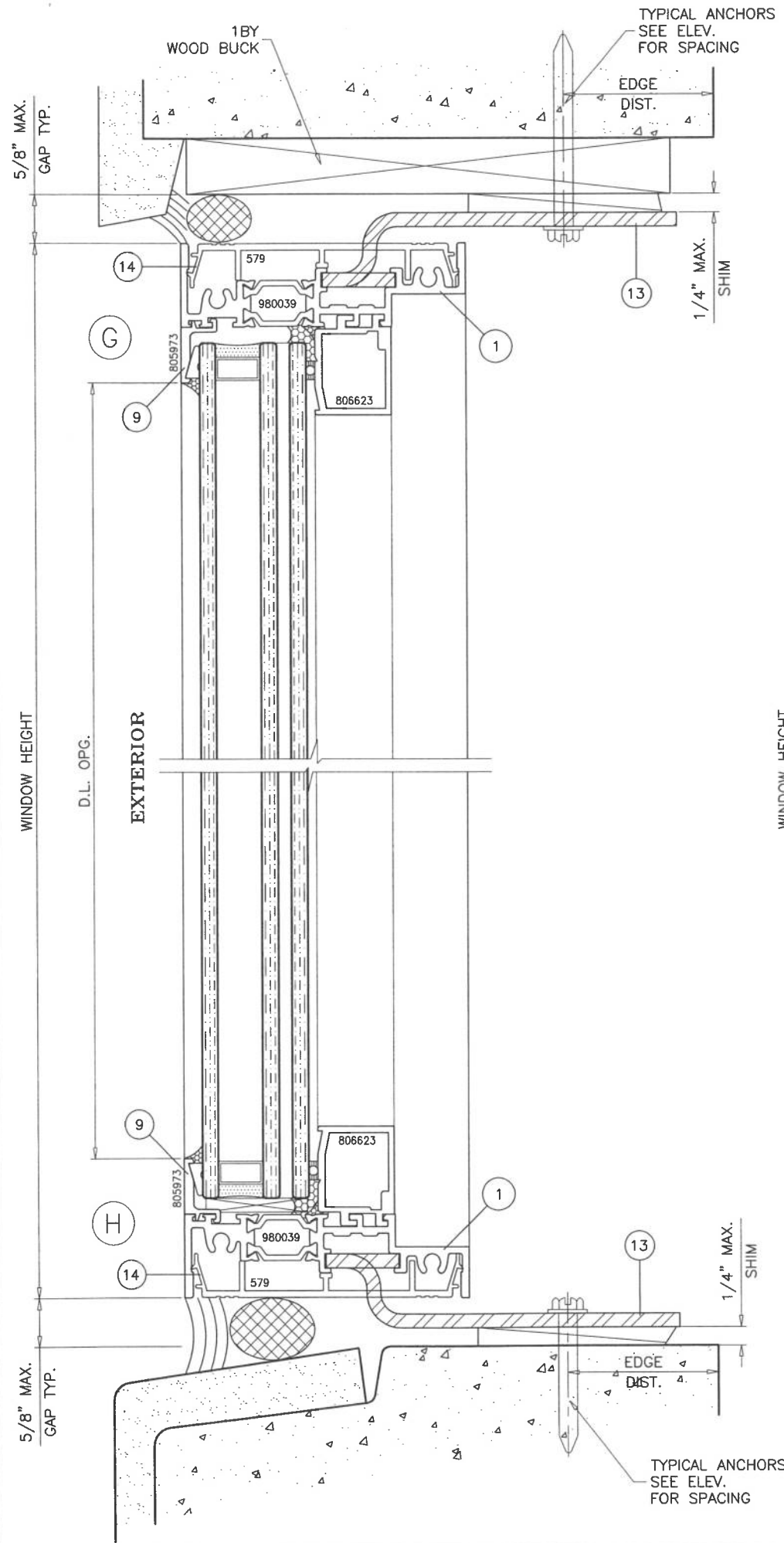
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**af c**  
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sheet 10 of 30			



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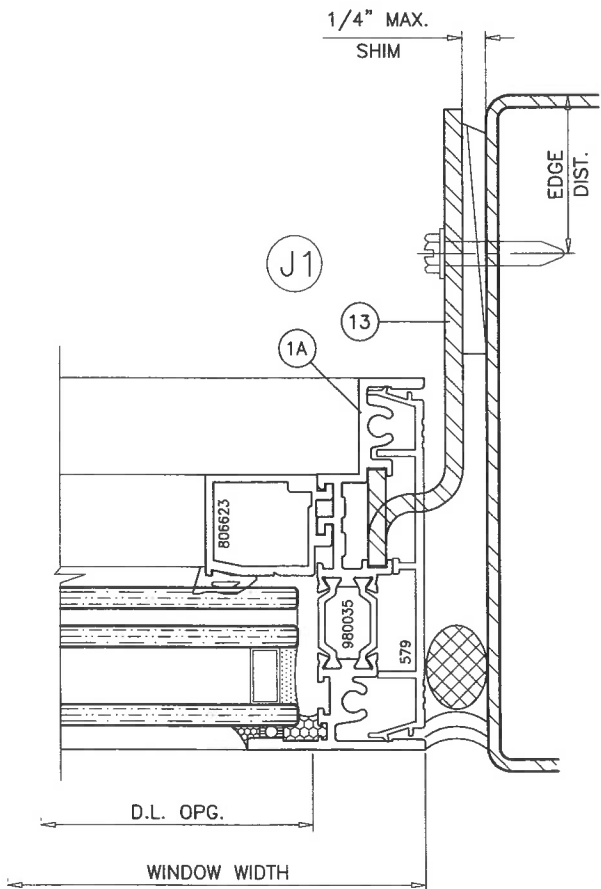
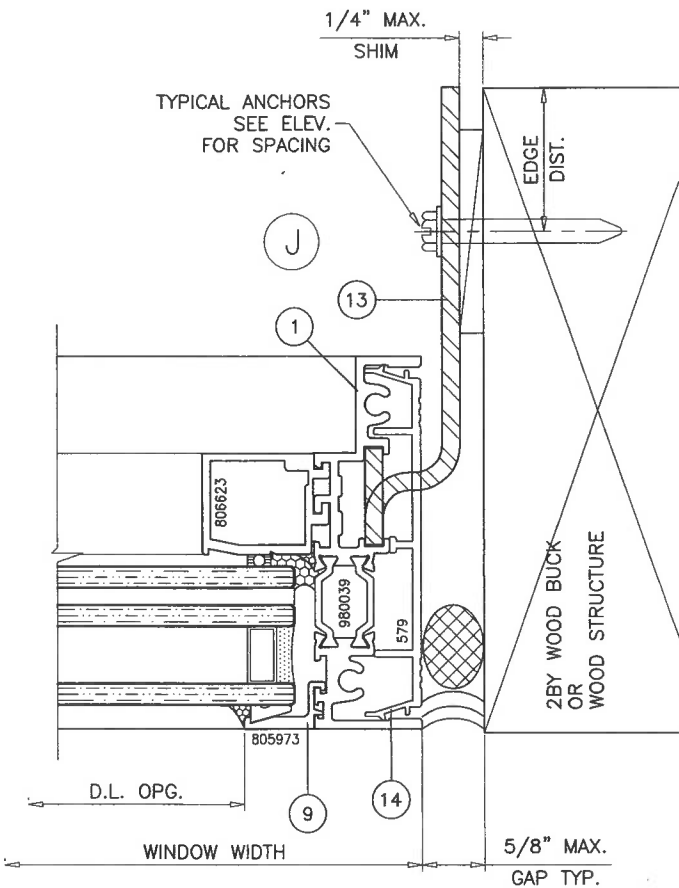


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drawing no.		W13-29
sheet 11 of 30		





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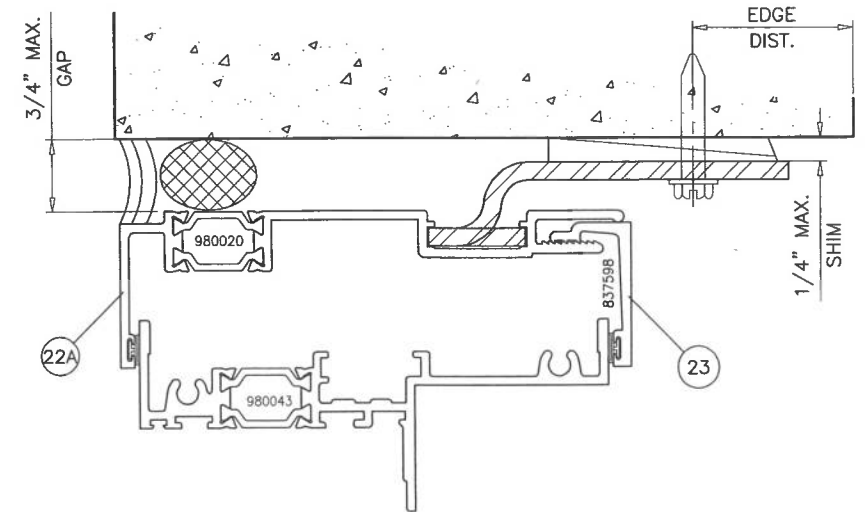
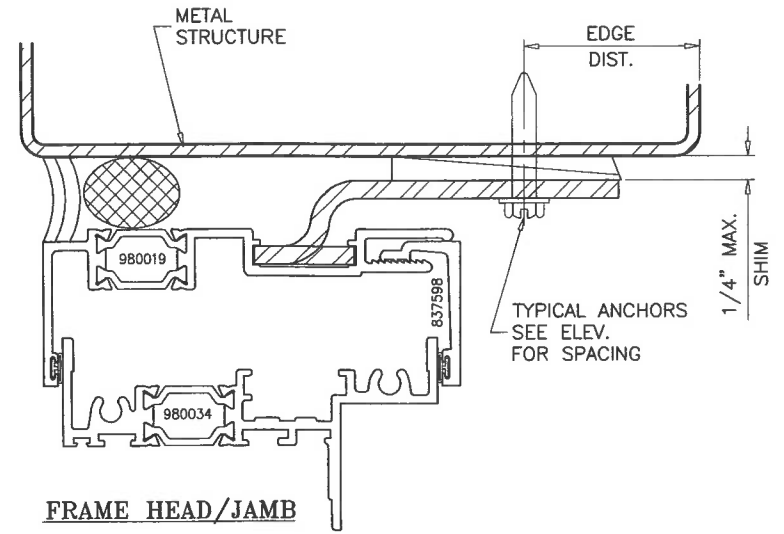
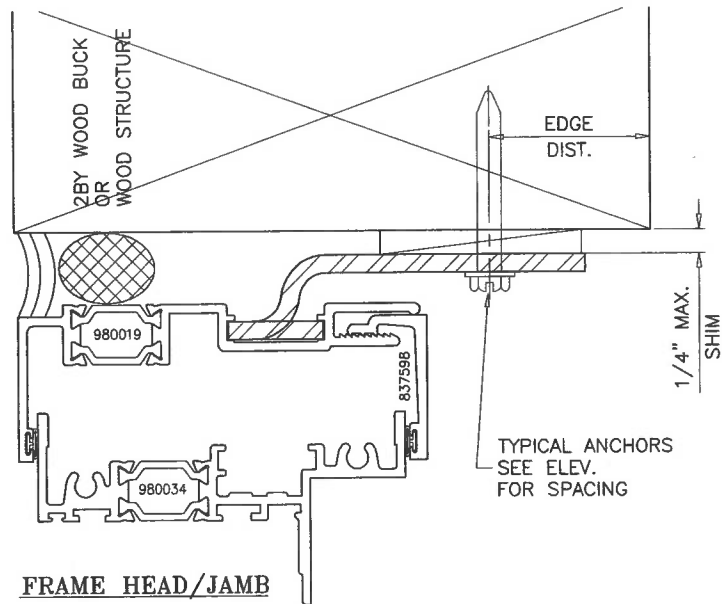
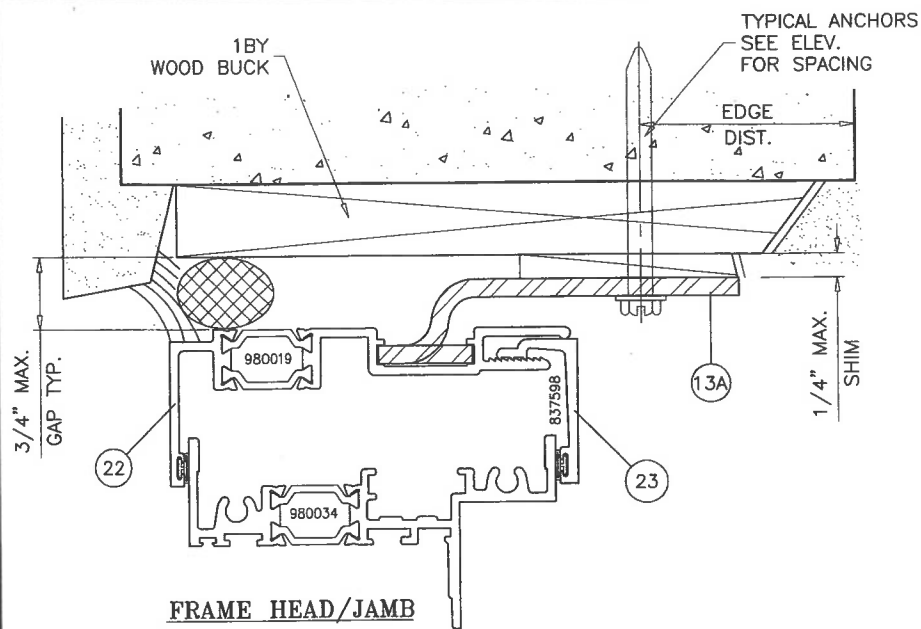


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chk. by:	

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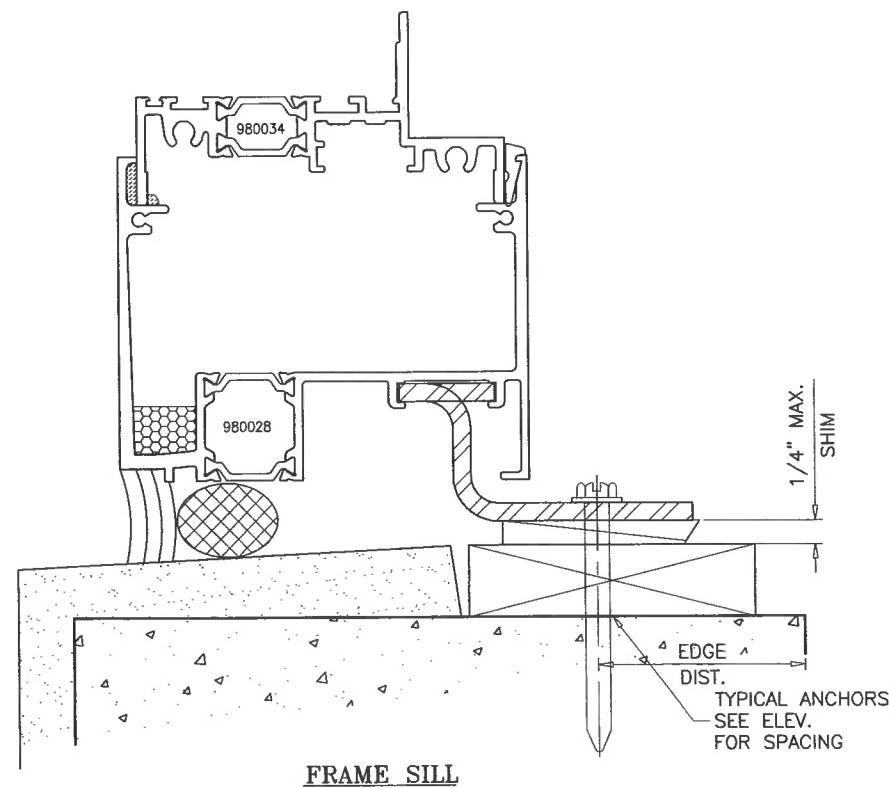
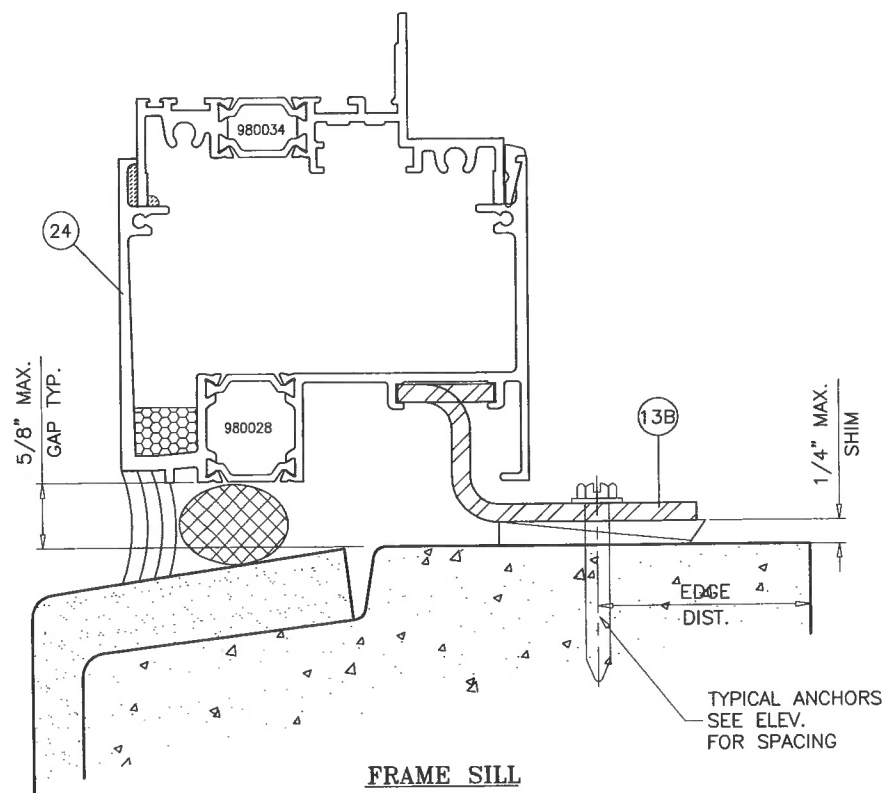
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-29WW



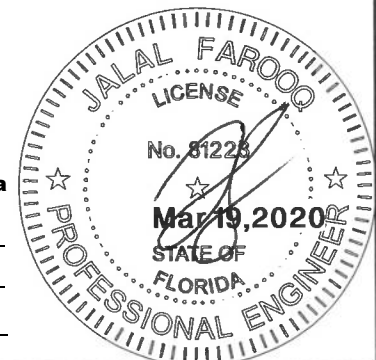
#### 4250i SERIES FRAMES

DRAWING SHOWS SERIES 3250i FRAMES (3-1/2" DEEP).  
SERIES 4250i FRAMES WITH EXTENDED INTERIOR LEGS CAN  
ALSO BE USED AT ALL ANCHORAGE CONDITIONS.



#### SLIDE IN CLIPS AT RECEPTOR ANCHORAGE DETAILS LEVEL 'D' IMPACT

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0429.01  
Expiration Date May 21, 2025  
By Miami-Dade Product Control

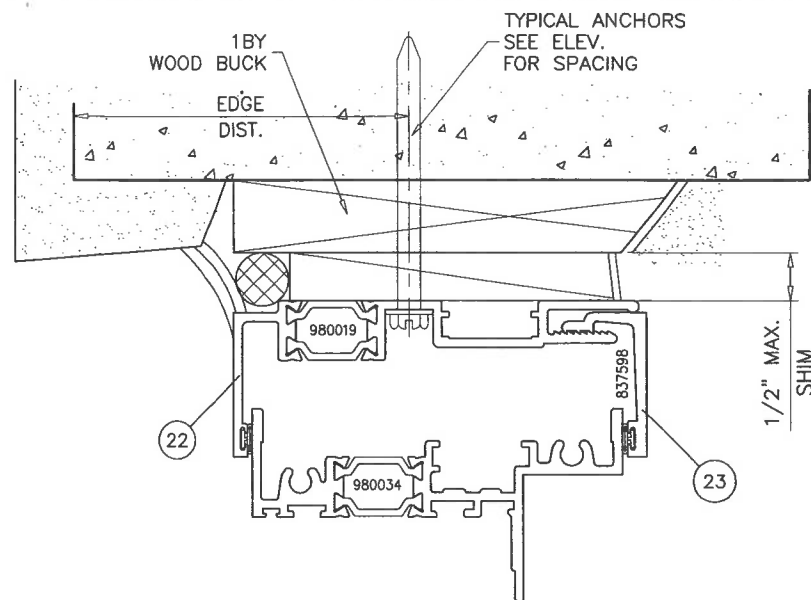


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W13-29WW

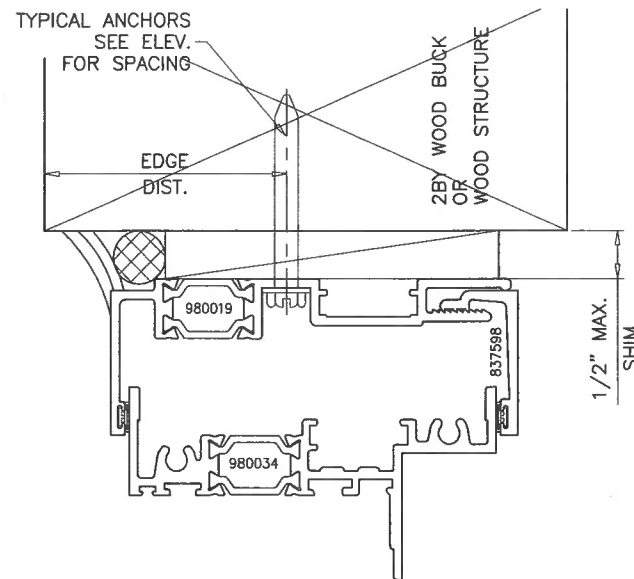
3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems, Inc.**  
Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

revisions:		no	date	by	description
A	12.24.13	REV. PER RER COMMENTS			
B	03.13.14	REV. PER RER COMMENTS			
C	03.19.19	EDITORIAL CHANGES ONLY			
date:		06-04-13			
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dr. by:		TARIQ			
chk. by:					
drawing no.		W13-29			
sheet		13 of 30			

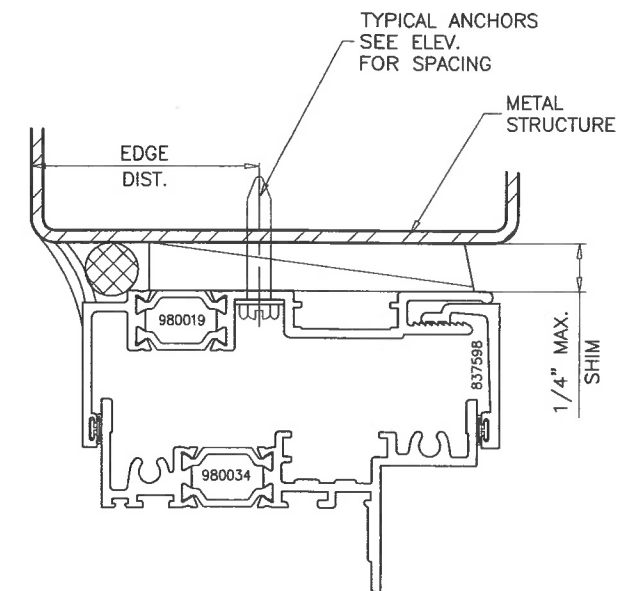




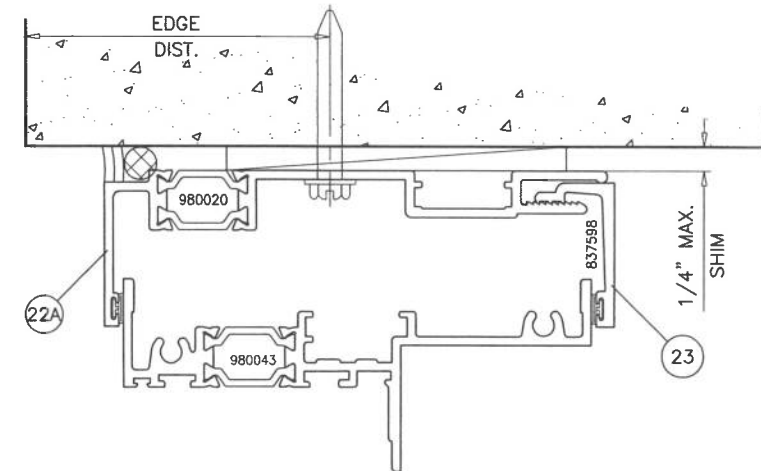
FRAME HEAD/JAMB



FRAME HEAD/JAMB

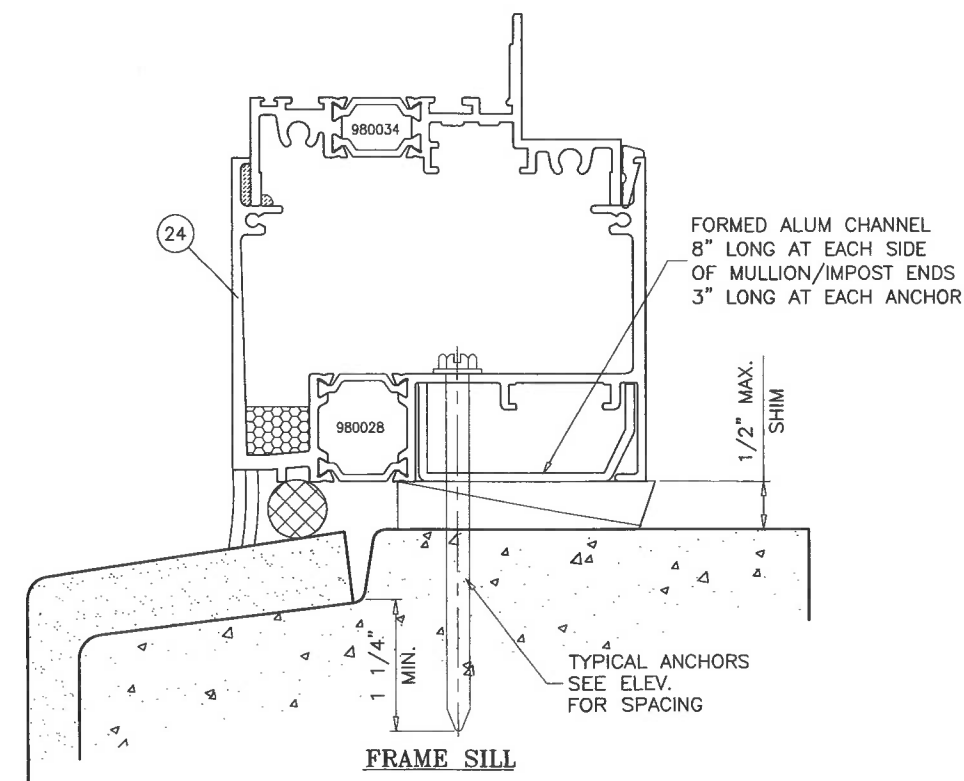


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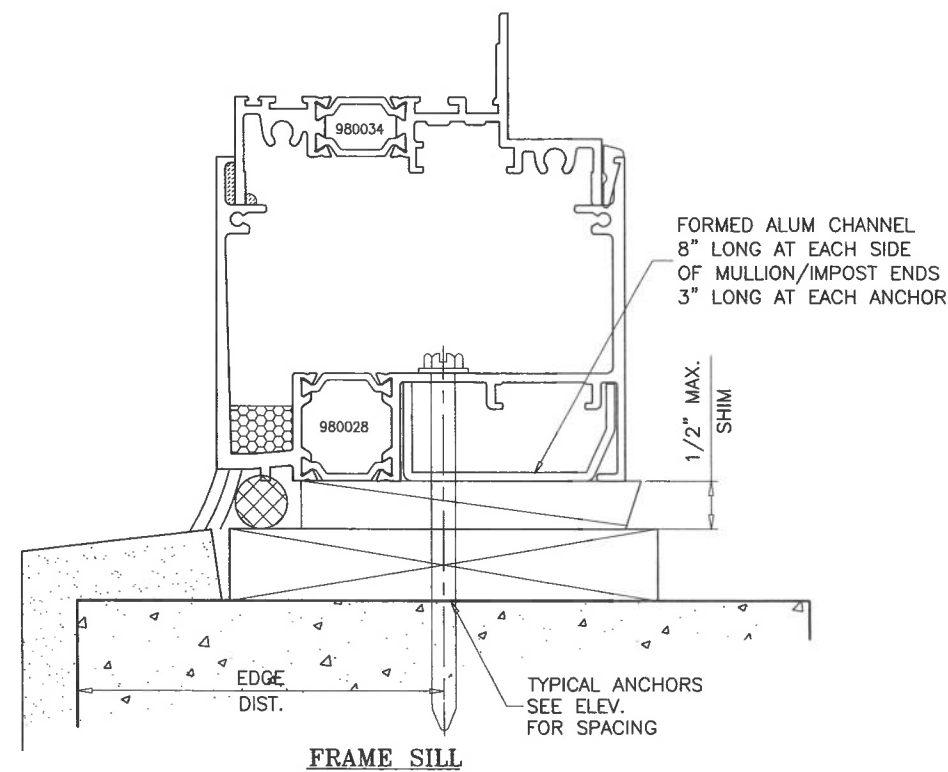


4250i SERIES FRAMES

DRAWING SHOWS SERIES 3250i FRAMES (3-1/2" DEEP).  
SERIES 4250i FRAMES WITH EXTENDED INTERIOR LEGS CAN  
ALSO BE USED AT ALL ANCHORAGE CONDITIONS.




FRAME SILL



FRAME SILL

# DIRECTLY THRU RECEPTOR ANCHORAGE DETAILS LEVEL 'D' IMPACT

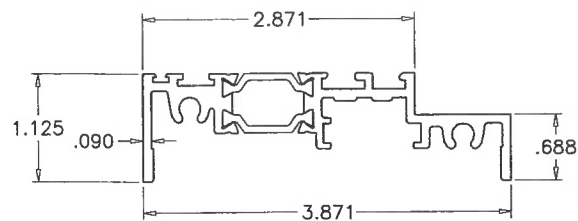
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0429.01  
Expiration Date May 21, 2025  
By   
Miami-Dade Product Control



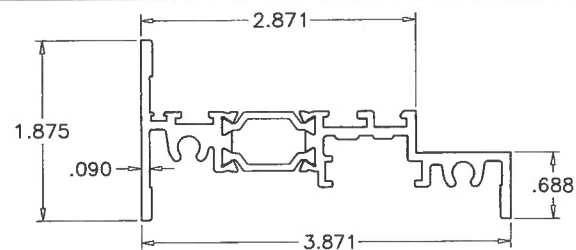
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W13-29WW

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
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Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

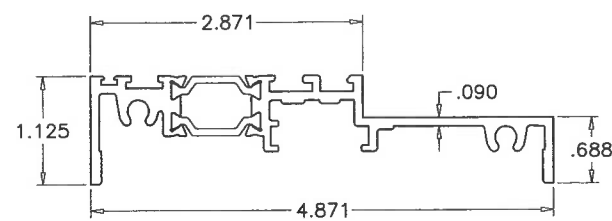
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scale: 1/2" = 1"		no	date	by	description
drawing no. W13-29		A	12.24.13		REV. PER RER COMMENTS
		B	03.13.14		REV. PER RER COMMENTS
		C	03.19.19		EDITORIAL CHANGES ONLY
dr. by: TARIQ					
chk. by:					



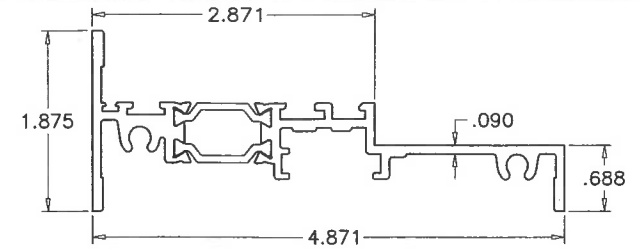
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FRAME HEAD/SILL/JAMB  
980039



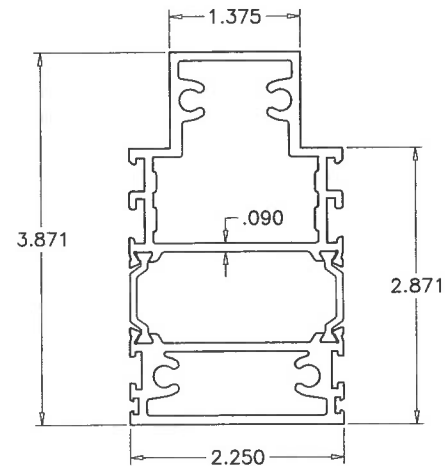
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ALT. FRAME HEAD/SILL/JAMB  
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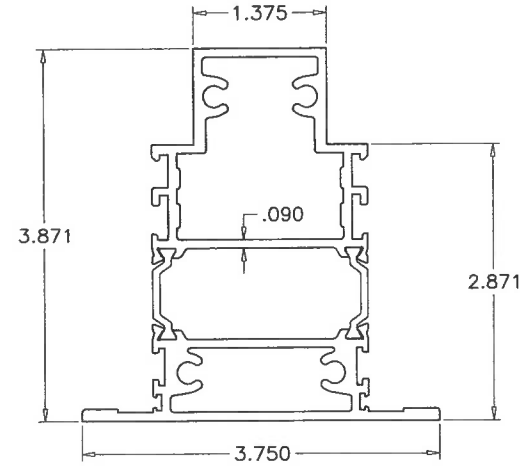
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FRAME HEAD/SILL/JAMB  
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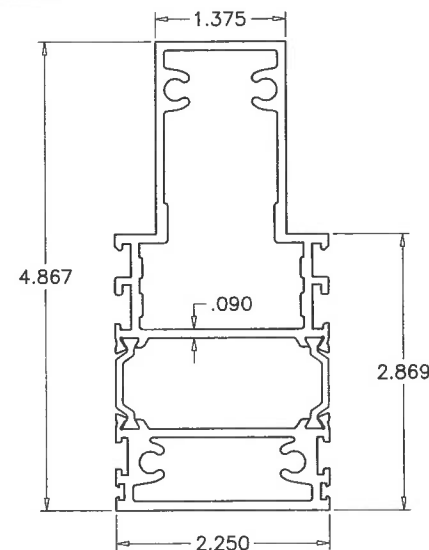
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ALT. FRAME HEAD/SILL/JAMB  
995903



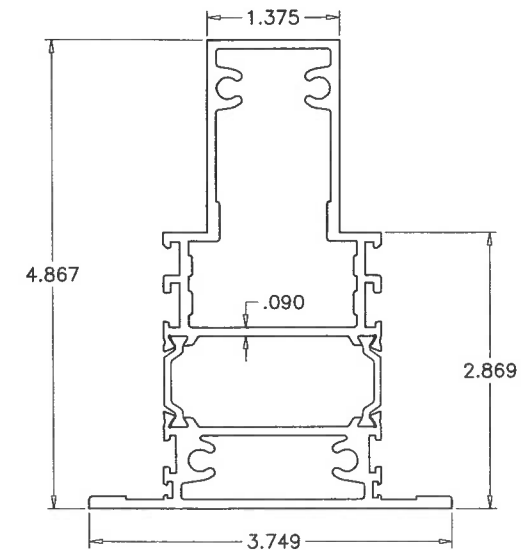
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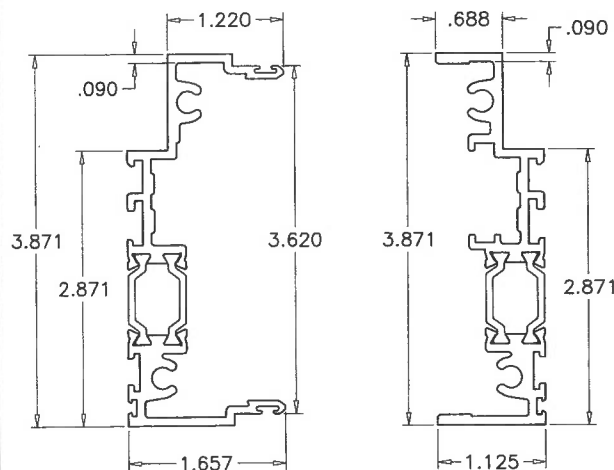
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ALT. IMPOST  
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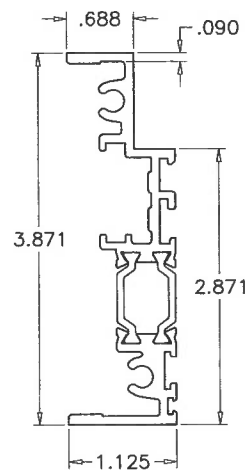
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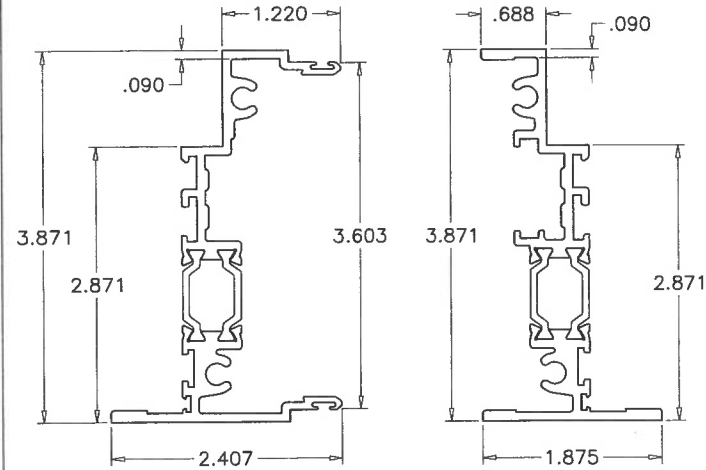
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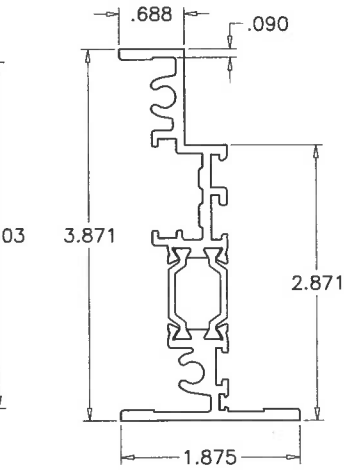
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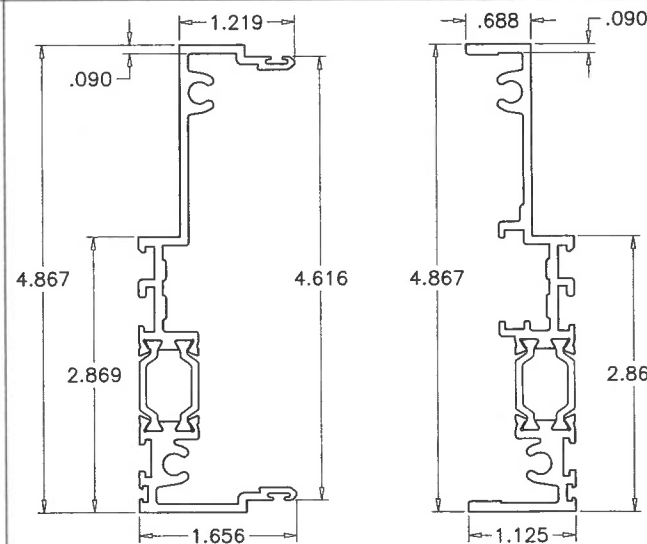
6  
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FEMALE MULLION  
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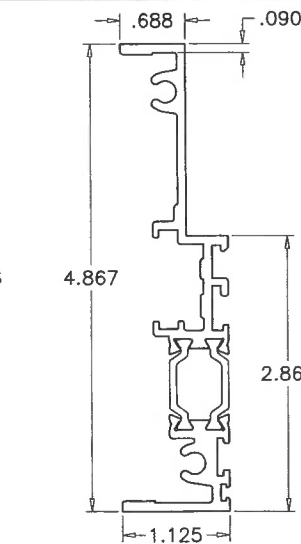
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ALT. MALE MULLION  
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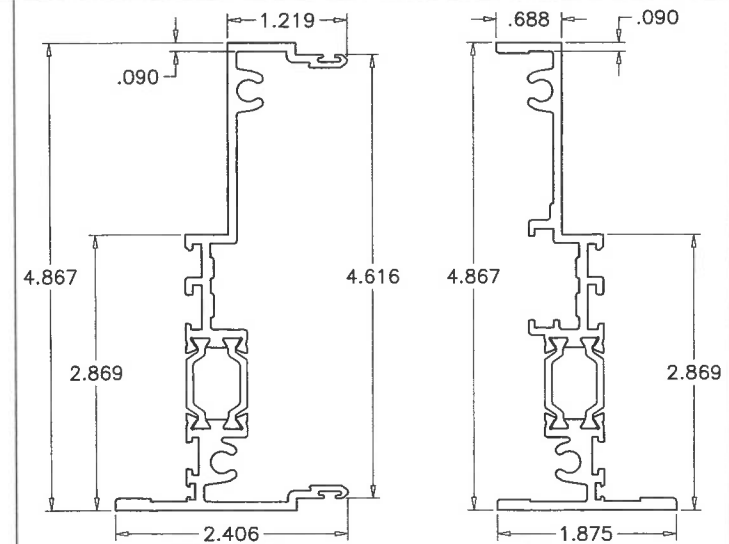
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ALT. FEMALE MULLION  
980035



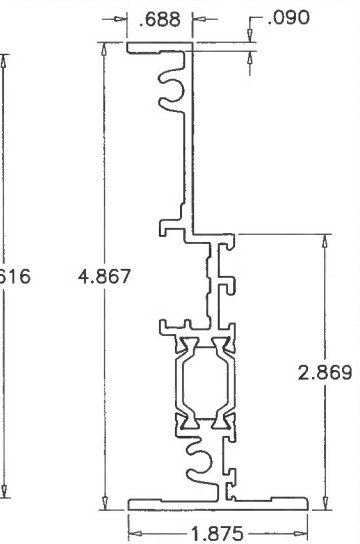
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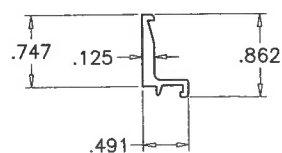
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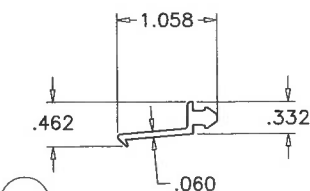
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ALT. MALE MULLION  
980046



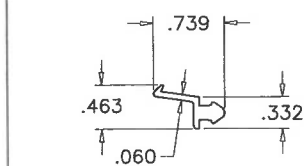
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SERIES 4250i  
ALT. FEMALE MULLION  
995903



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FRAME INSERT  
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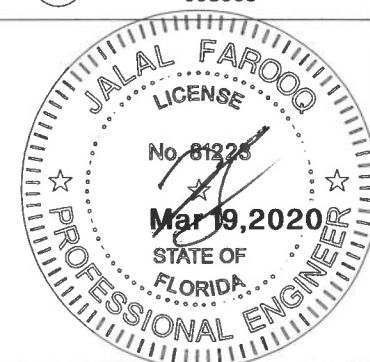
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EXTERIOR MULLION INSERT  
907622



10A  
INTERIOR MULLION INSERT  
907624

CONTINUOUS POLYAMIDE NYLON THERMAL BARRIER  
MECHANICALLY CRIMPED INTO CROSS KNURLED CAVITIES  
BY 'TECHNOFORM BAUTEC'  
DUROMETER 82±4 SHORE D  
TYPICAL ALL FRAMES

**PRODUCT RENEWED**  
as complying with the Florida  
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NOA-No. 20-0429.01  
Expiration Date May 21, 2025  
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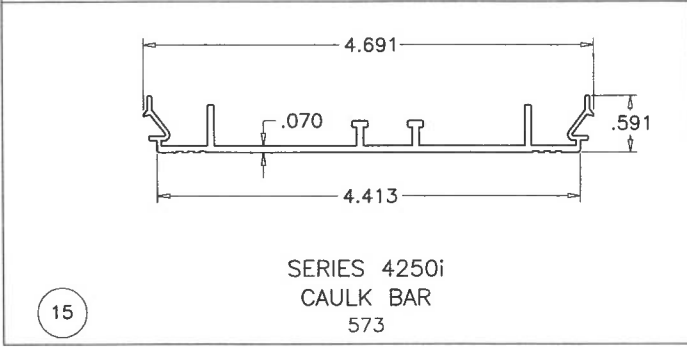
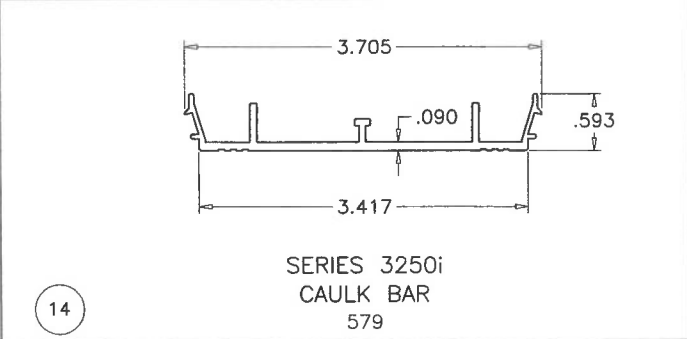
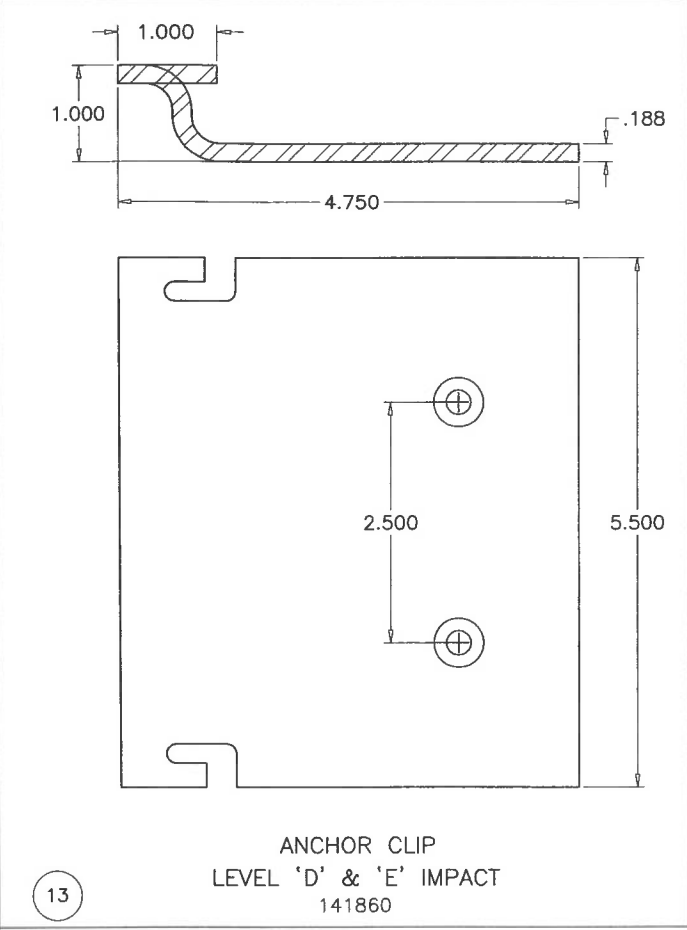
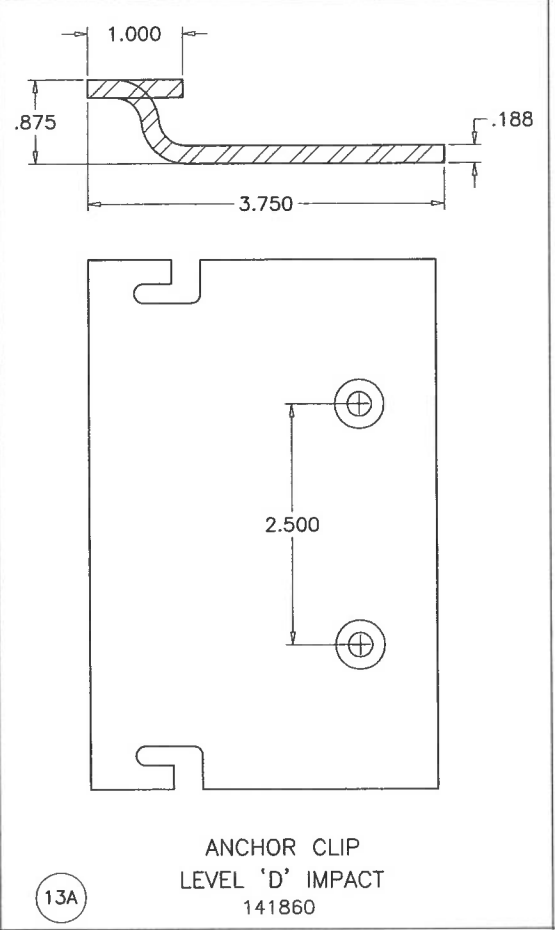
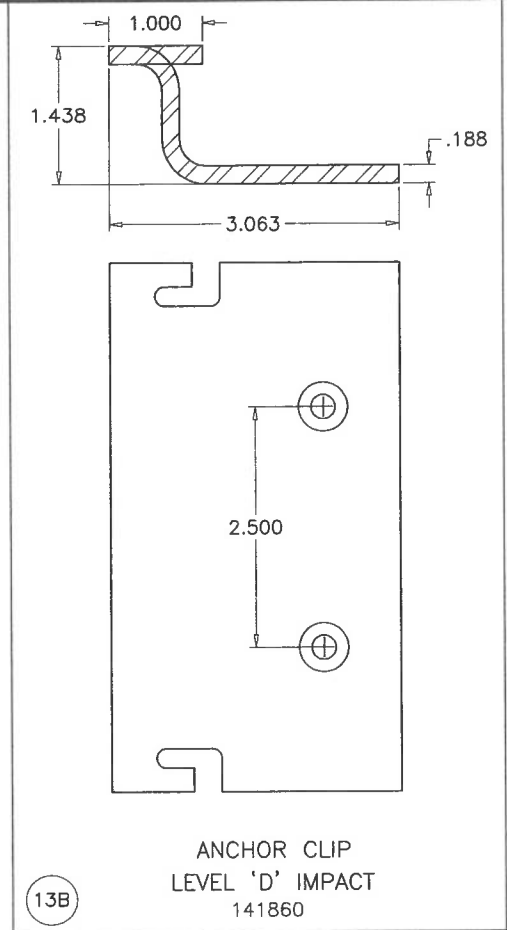
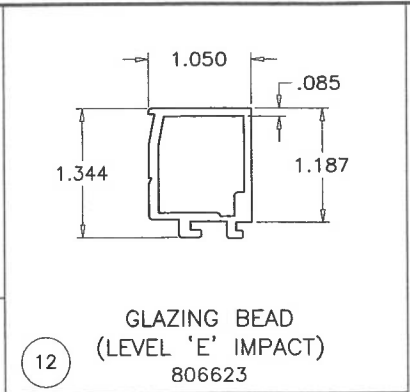
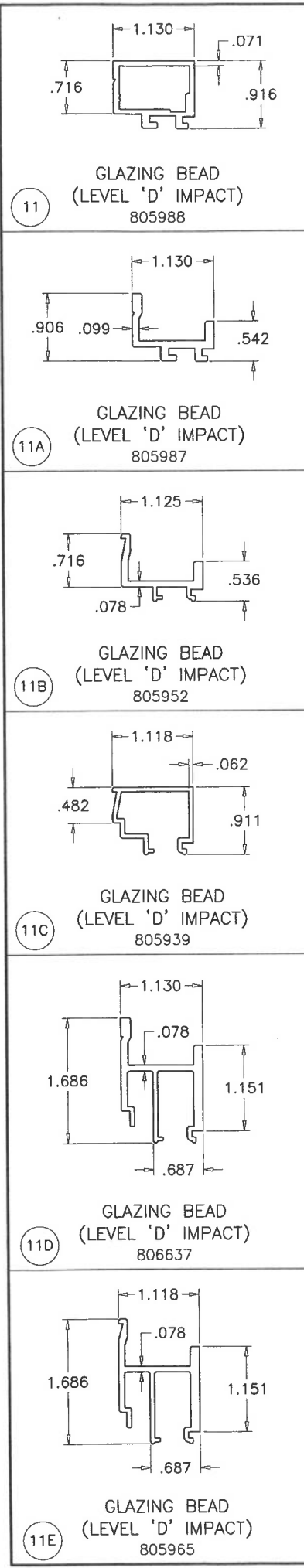
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-29WW


3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems,**  
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7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

Revisions:		by	description
no	date		
A	12.24.13	REV. PER COMMENTS	
B	03.13.14	NO CHANGE THIS SHEET	
C	03.19.19	EDITORIAL CHANGES ONLY	


  

date: 06-04-13	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no.	W13-29	sheet 15 of 30	



**PRODUCT RENEWED**  
as complying with the Florida  
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NOA-No. 20-0429.01  
Expiration Date May 21, 2025  
By   
Miami-Dade Product Control





**AL-FAROOQ CORPORATION**  
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9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
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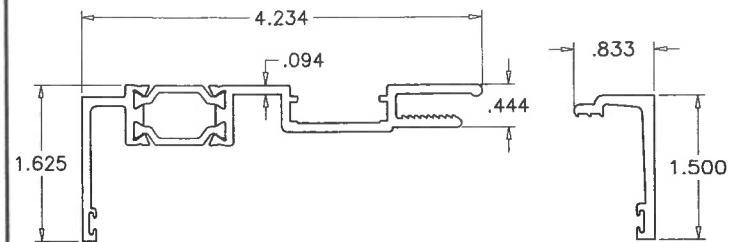
3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems,**  
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no	description
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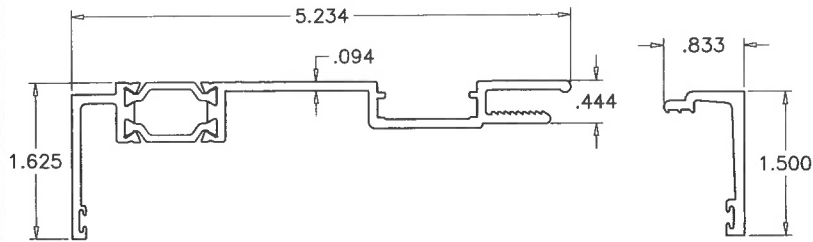
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drawing no. **W13-29**  
sheet 16 of 30



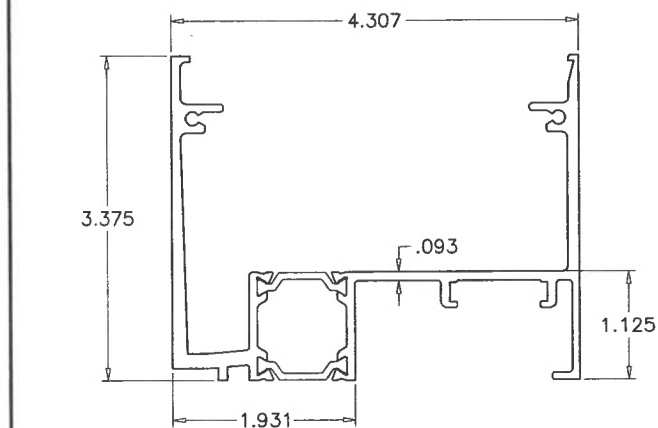


22 SERIES 3250i  
RECEPTOR HEAD/JAMB  
(LEVEL 'D' IMPACT)  
980019

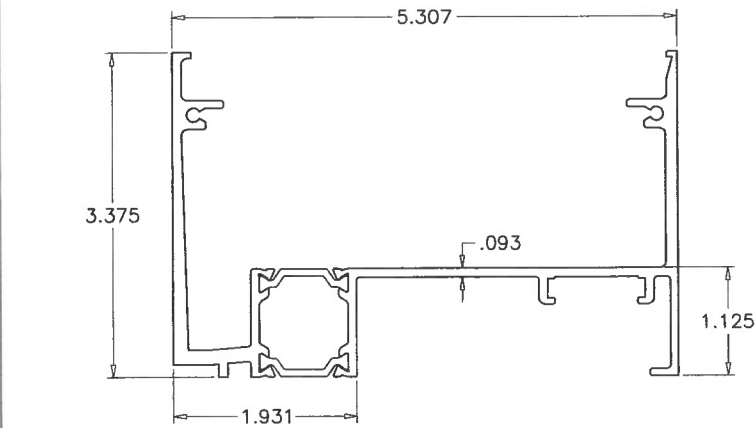


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RECEPTOR HEAD/JAMB  
(LEVEL 'D' IMPACT)  
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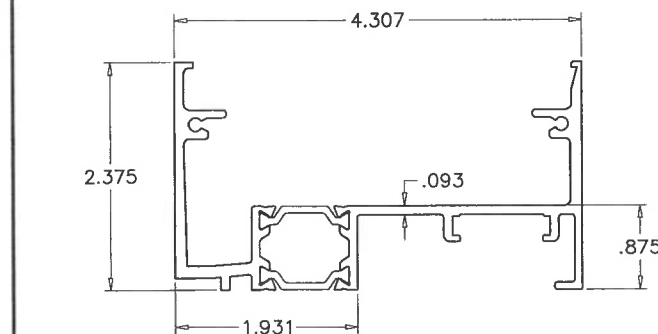
CONTINUOUS POLYAMIDE NYLON THERMAL BARRIER  
MECHANICALLY CRIMPED INTO CROSS KNURLED CAVITIES  
BY 'TECHNOFORM BAUTEC'  
DUROMETR 82±4 SHORE D  
TYPICAL ALL FRAMES



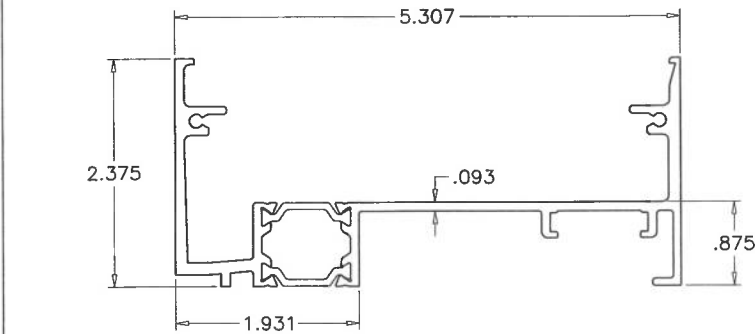
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APPR'D FOR WATER RESISTANCE  
980028



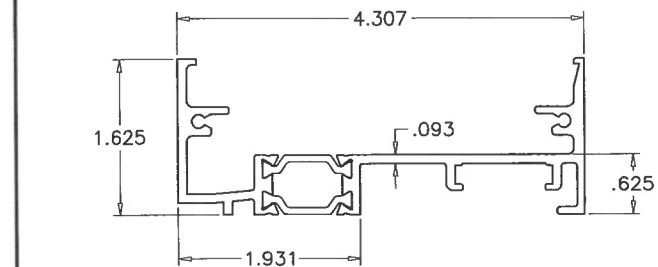
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APPR'D FOR WATER RESISTANCE  
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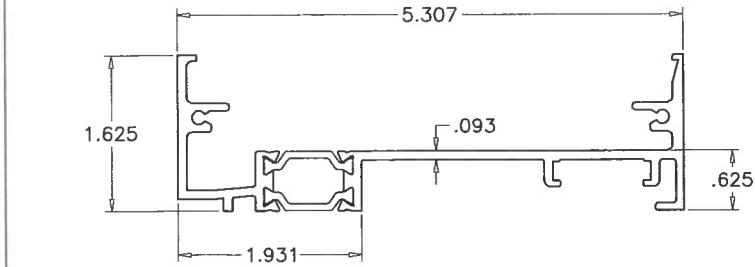
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RECEPTOR SILL  
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NOT APPR'D FOR WATER RESISTANCE  
980025




24.1A SERIES 4250i  
RECEPTOR SILL  
(LEVEL 'D' IMPACT)  
NOT APPR'D FOR WATER RESISTANCE  
980026

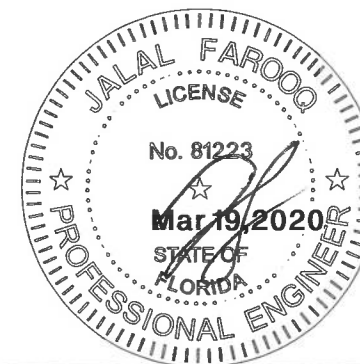


24.2 SERIES 3250i  
RECEPTOR SILL  
(LEVEL 'D' IMPACT)  
NOT APPR'D FOR WATER RESISTANCE  
980022



24.2A SERIES 4250i  
RECEPTOR SILL  
(LEVEL 'D' IMPACT)  
NOT APPR'D FOR WATER RESISTANCE  
980023

**PRODUCT RENEWED**  
as complying with the Florida  
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Expiration Date May 21, 2025  
By   
Miami-Dade Product Control



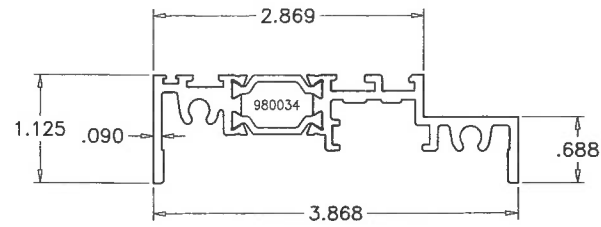
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
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COMP-ANL\W13-29WW

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
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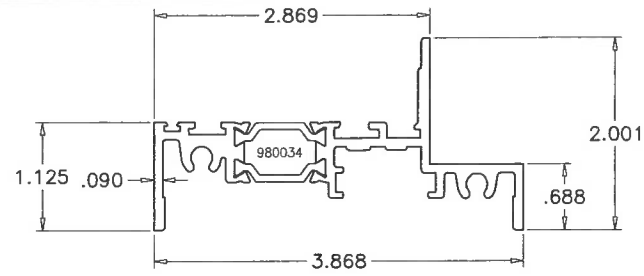
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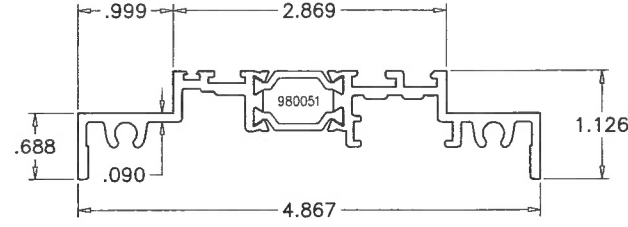
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drawing no. W13-29	sheet 17 of 30		



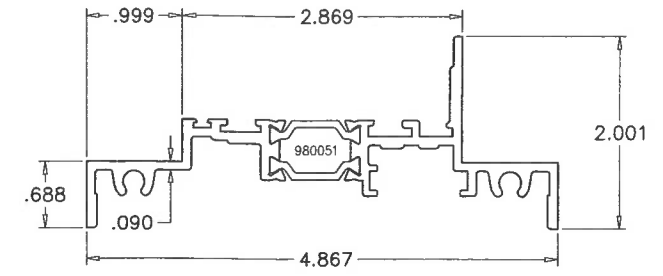
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FRAME HEAD/SILL/JAMB  
980034 (TRIMMED)



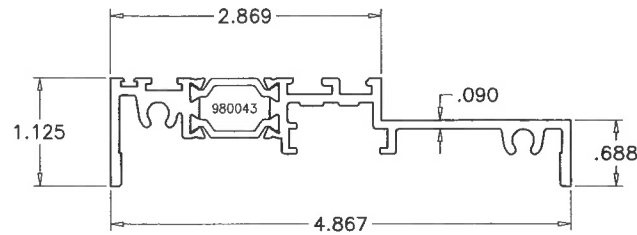
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ALT. FRAME HEAD/SILL/JAMB  
980034



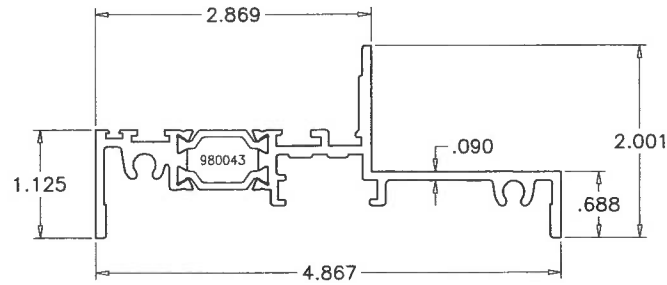
51 SERIES 4250i  
FRAME HEAD/SILL/JAMB  
980051 (TRIMMED)



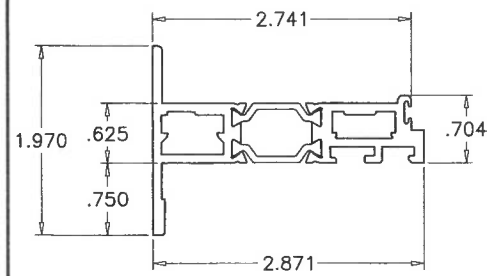
51A SERIES 4250i  
ALT. FRAME HEAD/SILL/JAMB  
980051



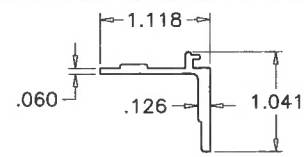
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FRAME HEAD/SILL/JAMB  
980043 (TRIMMED)



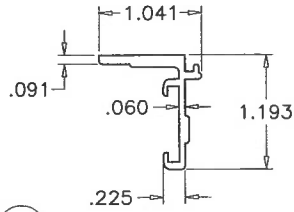
50.1A SERIES 4250i  
ALT. FRAME HEAD/SILL/JAMB  
980043



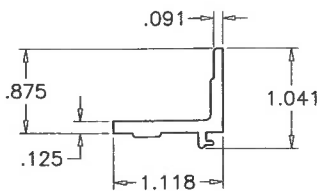
25 CASEMENT VENT  
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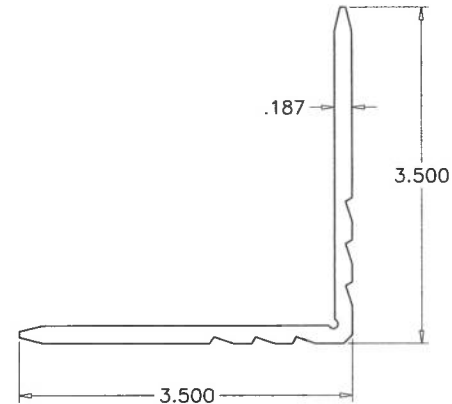
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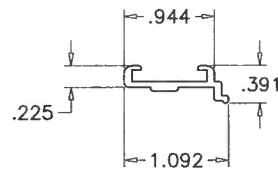
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FRAME LOCK JAMB  
805958



28 CASEMENT INSERT  
FRAME SILL  
805979

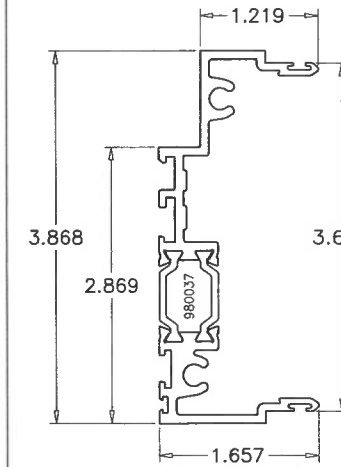


CORNER KEY  
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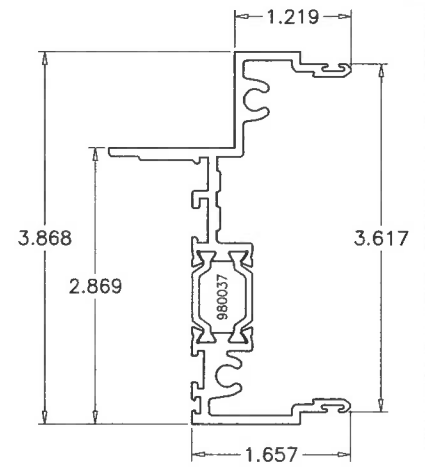


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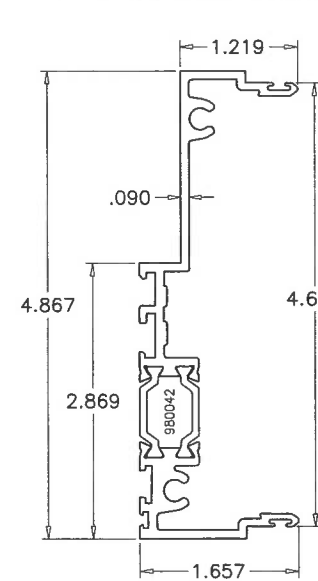
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MECHANICALLY CRIMPED INTO CROSS KNURLED CAVITIES  
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DUROMETR 82±4 SHORE D  
TYPICAL ALL FRAMES



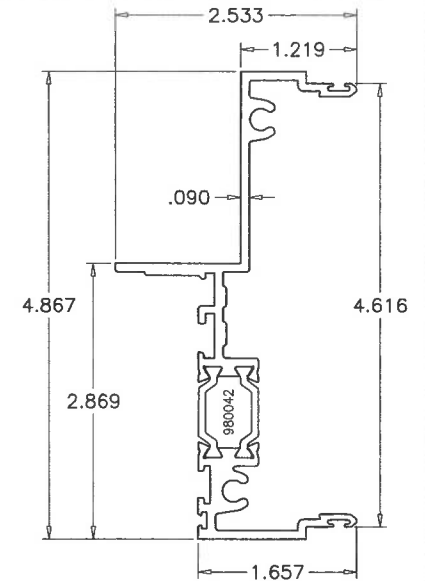
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ALT. MALE MULLION  
980037 (TRIMMED)




SERIES 3250i  
ALT. MALE MULLION  
980037

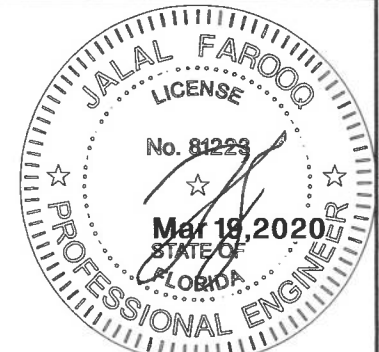


SERIES 4250i  
ALT. MALE MULLION  
980042 (TRIMMED)



SERIES 4250i  
ALT. MALE MULLION  
980042

**PRODUCT RENEWED**  
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NOA-No. 20-0429.01  
Expiration Date May 21, 2025  
By   
Miami-Dade Product Control



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W13-29WW

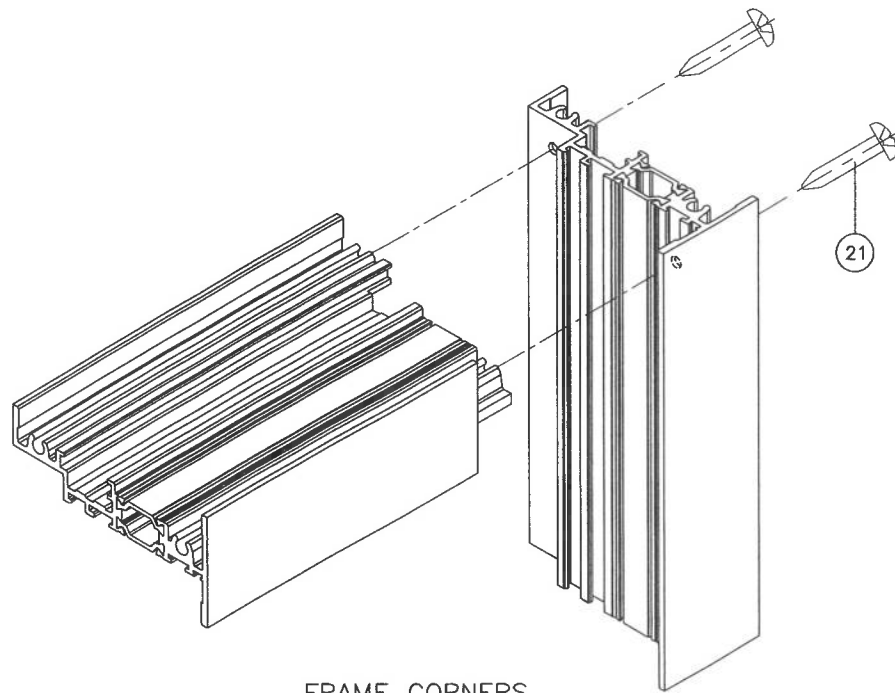
3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems, Inc.**  
Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

revisions:	no	date	by	description
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	B	03.13.14	NO CHANGE THIS SHEET	
	C	03.19.19	EDITORIAL CHANGES ONLY	

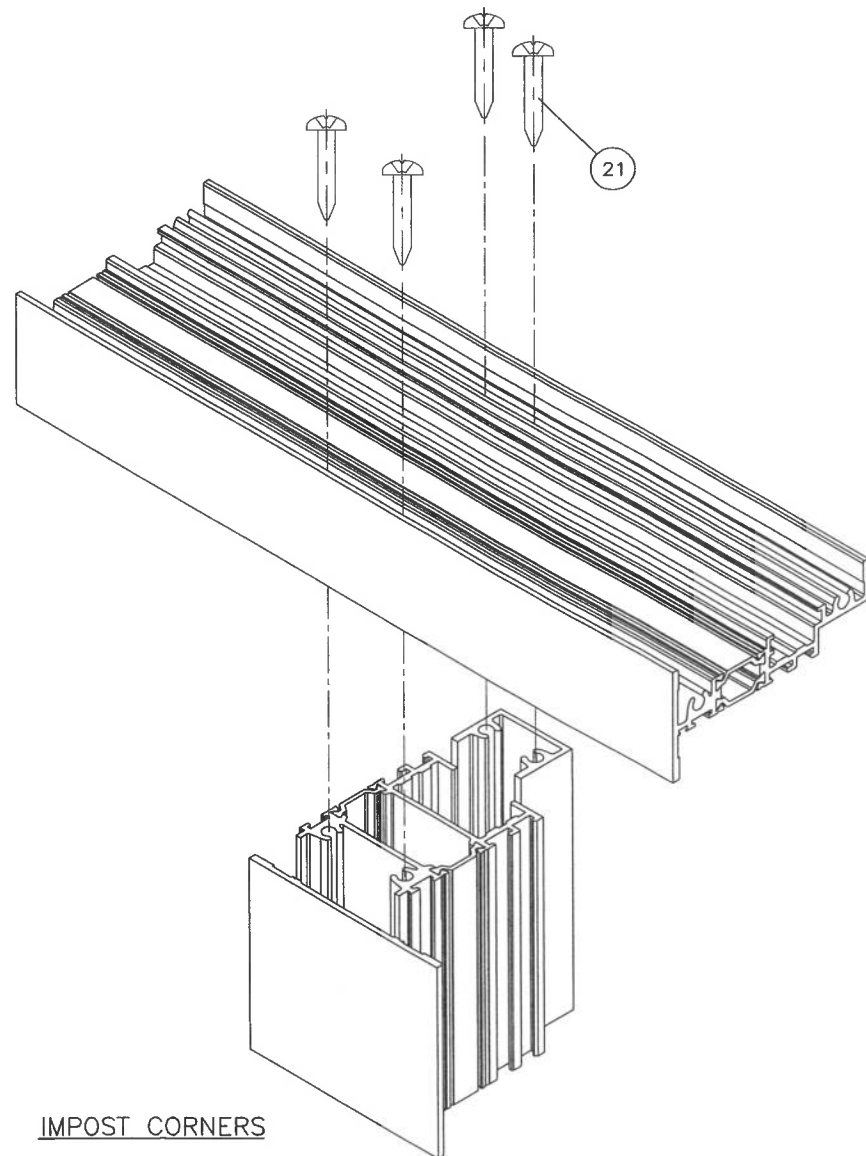
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dr. by: TARIQ  
chk. by:  
drawing no.  
**W13-29**  
sheet 18 of 30



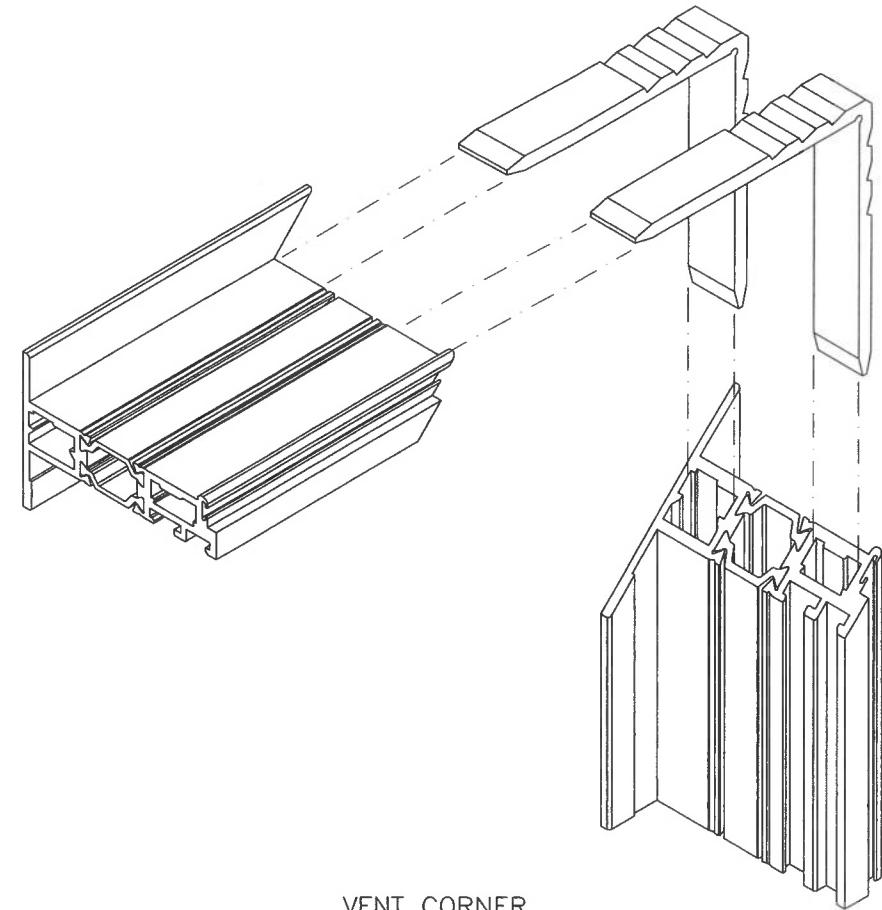





FRAME CORNERS

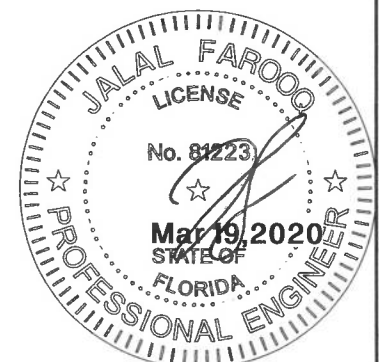


IMPOST CORNERS



VENT CORNER

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9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-29WW

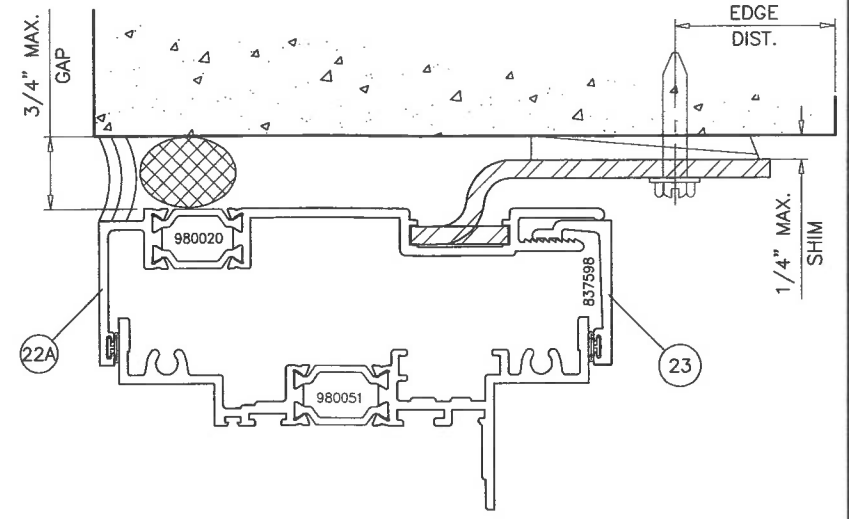
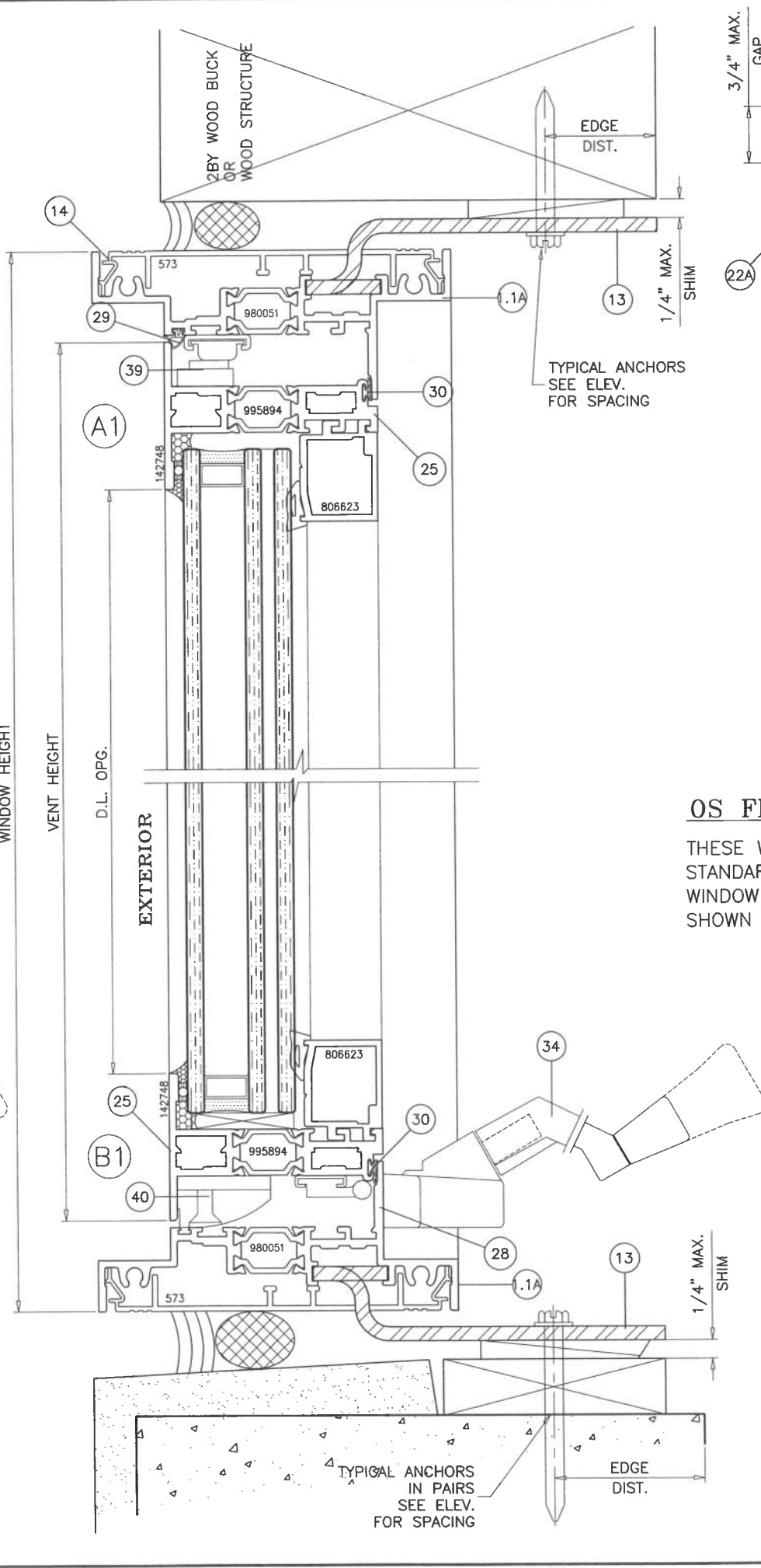
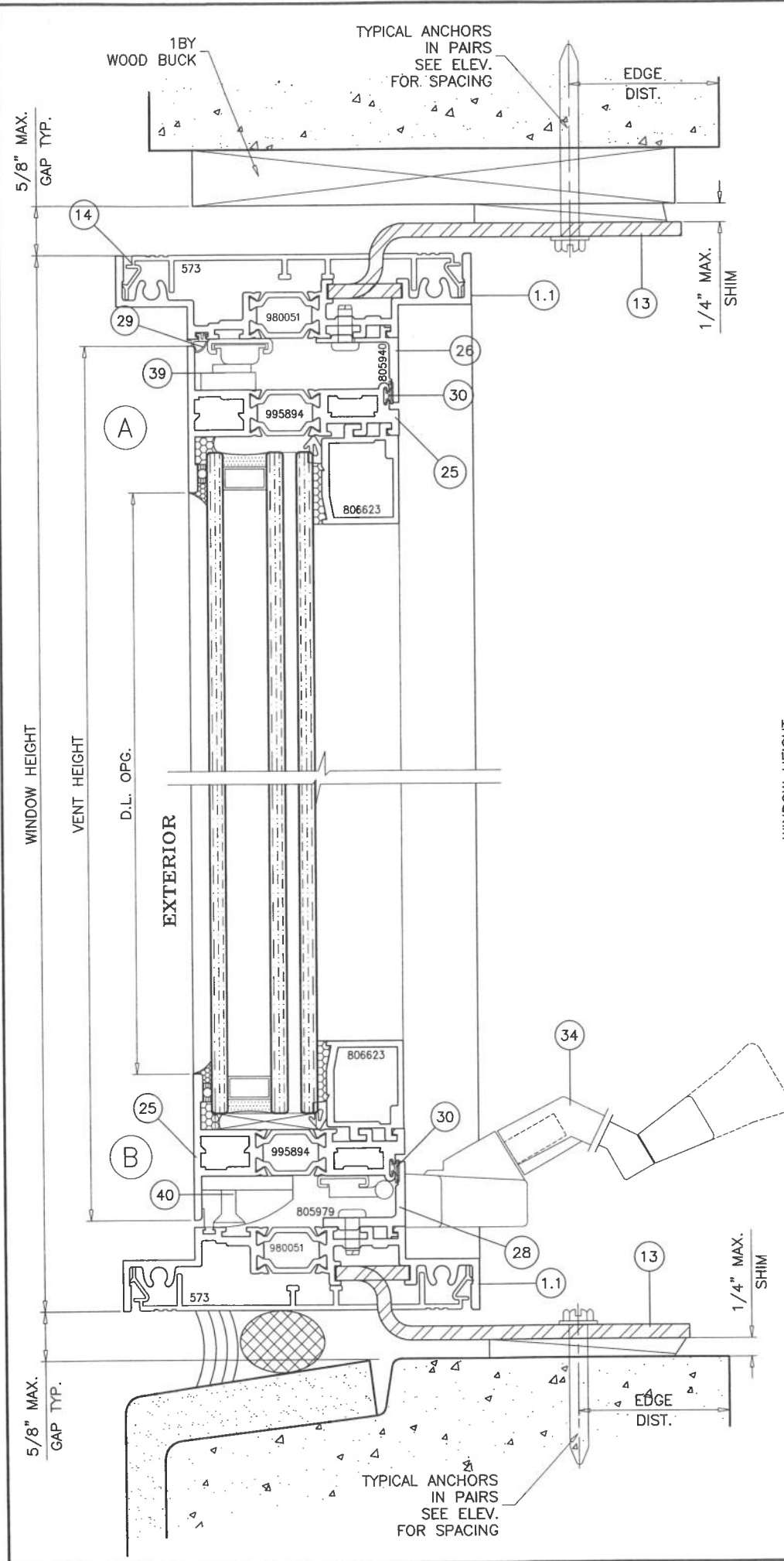
3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems,**  
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7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
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date: 06-04-13	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no. W13-29			
sheet 20 of 30			





### OS FRAME OPTION:

THESE WINDOWS MAY BE INSTALLED WITH OS FRAMES IN LIEU OF STANDARD FRAMES AS SHOWN IN THIS SHEET. WINDOW CAPACITIES, GLAZING METHODS AND ANCHORING DETAILS SHOWN FOR STANDARD FRAMES ALSO APPLIES TO OS FRAMES.

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9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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COMP - ANL W13-29WW

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
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7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
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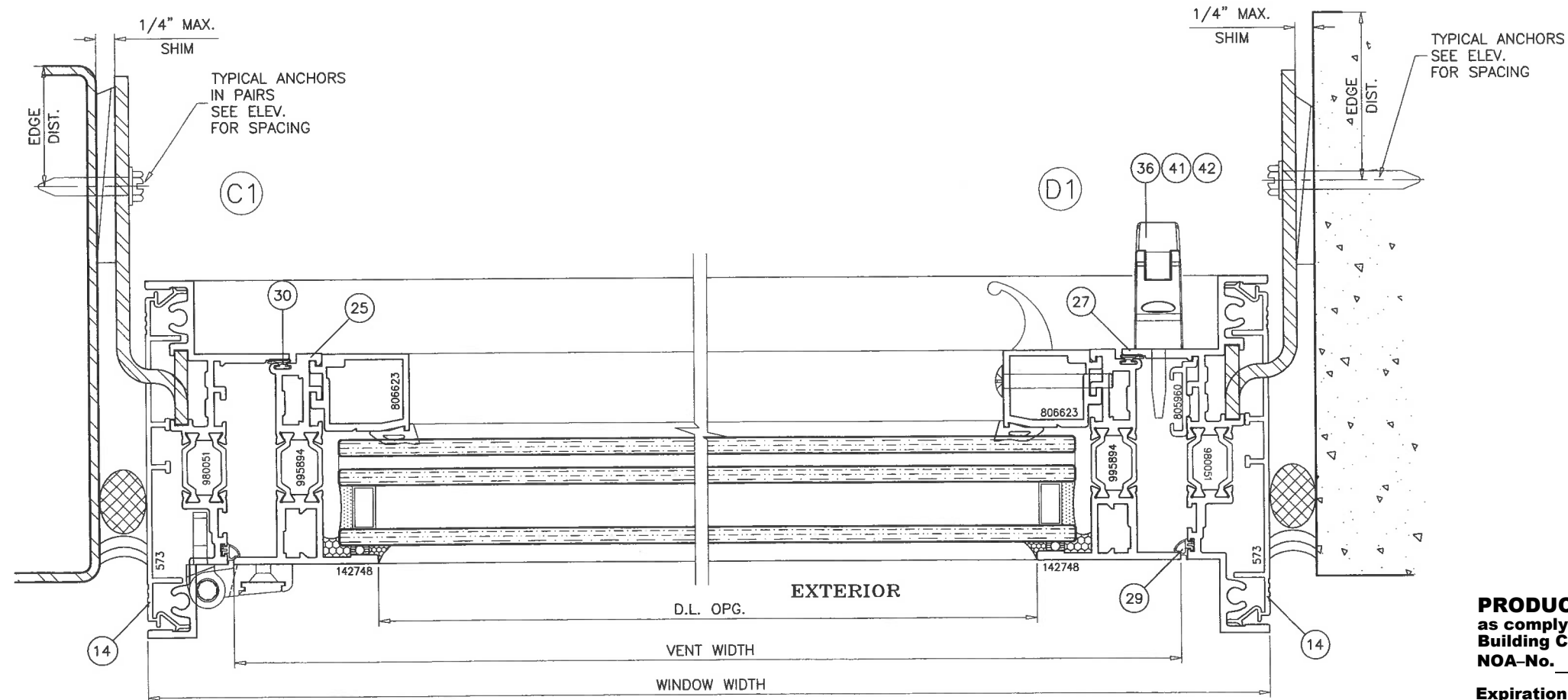
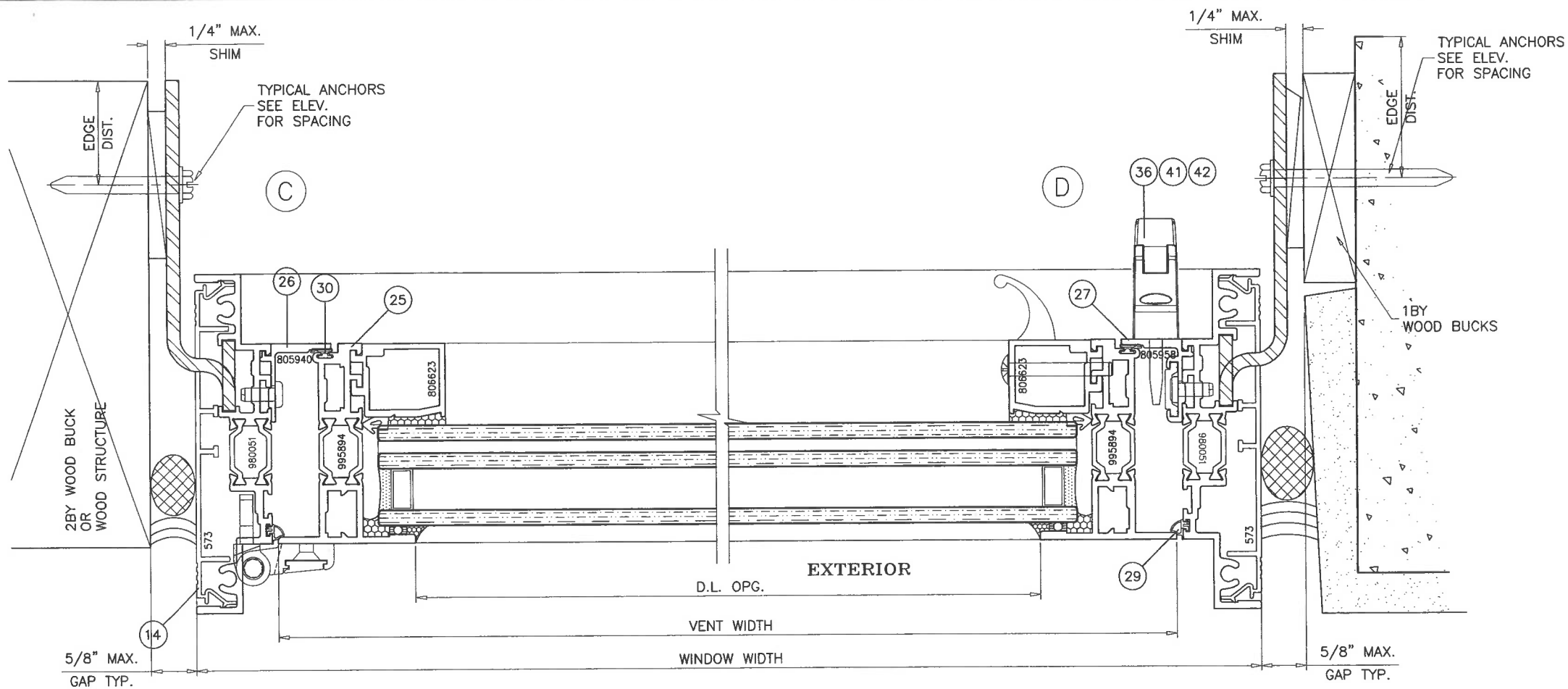
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no	date	by	description
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C	03.19.19	EDITORIAL	CHANGES ONLY

date: 06-04-13  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W13-29**

sheet 21 of 30



# OS FRAME OPTION:

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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W13-29WW

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32501-42501-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems,**  
Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

revisions:

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A	12.24.13	REV. PER RER COMMENTS	
B	03.13.14	NO CHANGE THIS SHEET	
C	03.19.19	EDITORIAL CHANGES ONLY	

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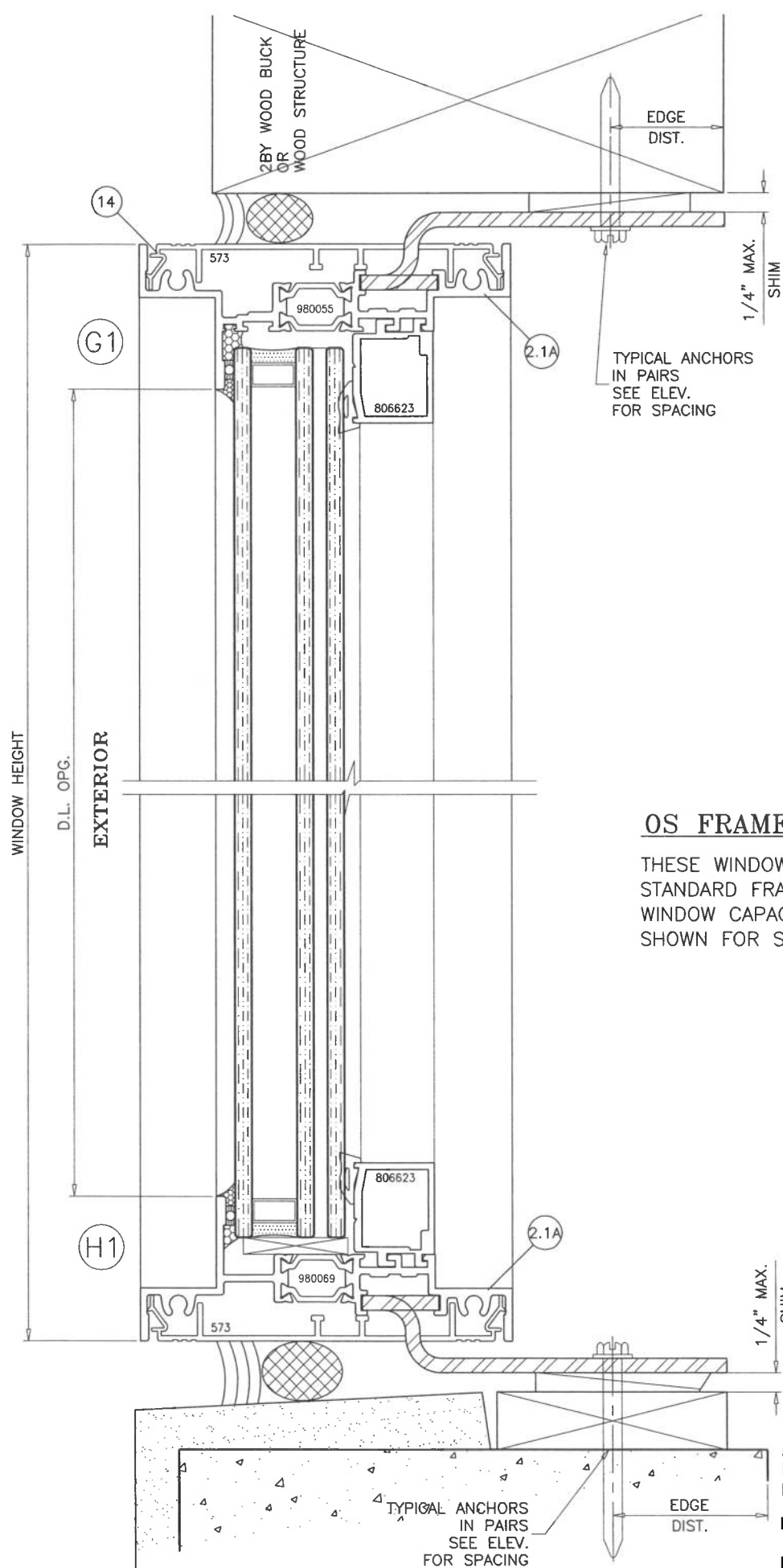
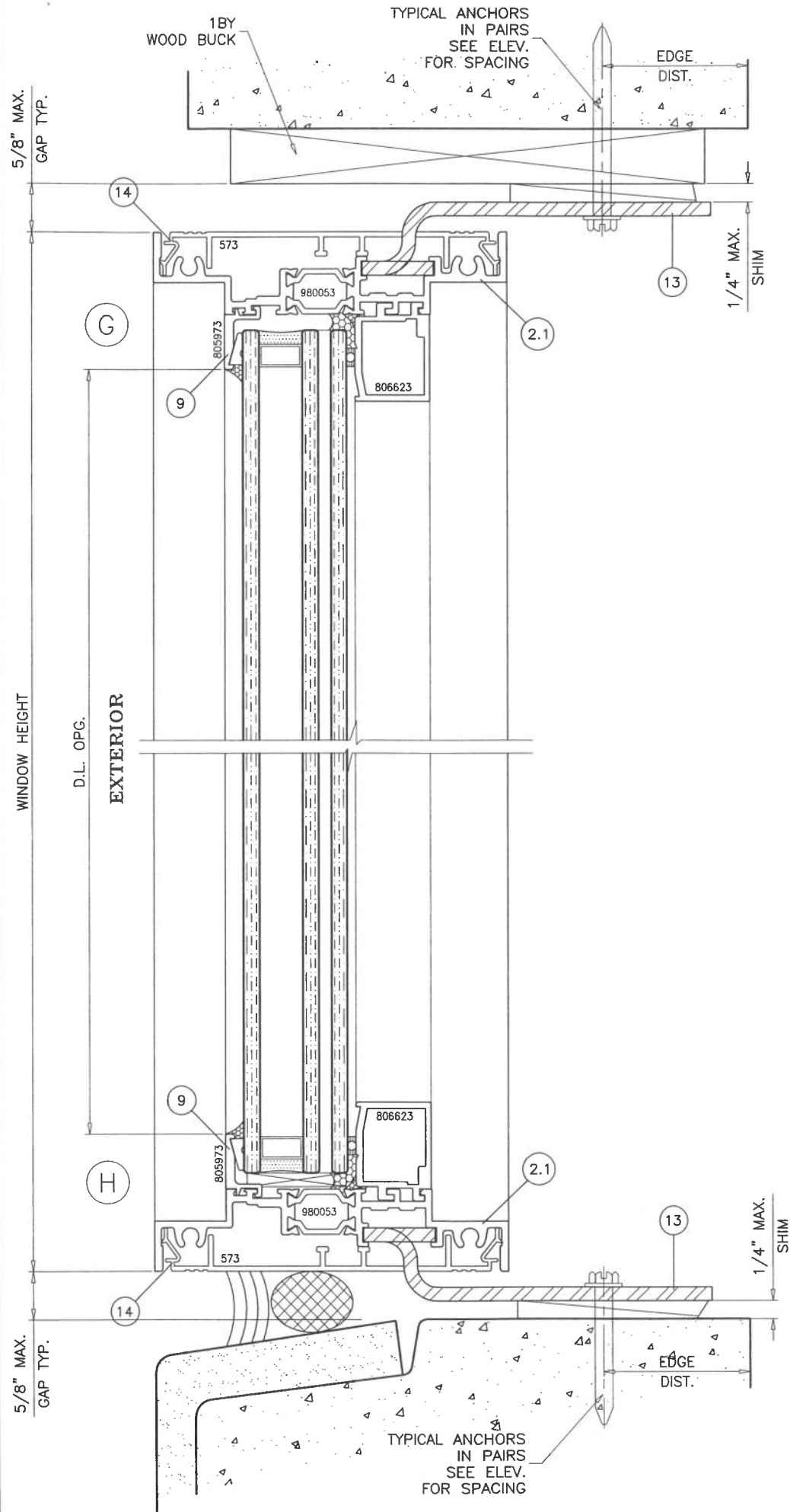
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drawing no.  
**W13-29**


sheet 22 of 30

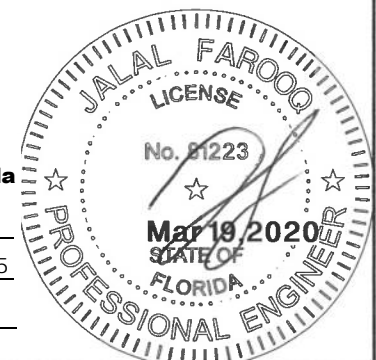




### OS FRAME OPTION:

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**AL-FAROOQ CORPORATION**  
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9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-29WW

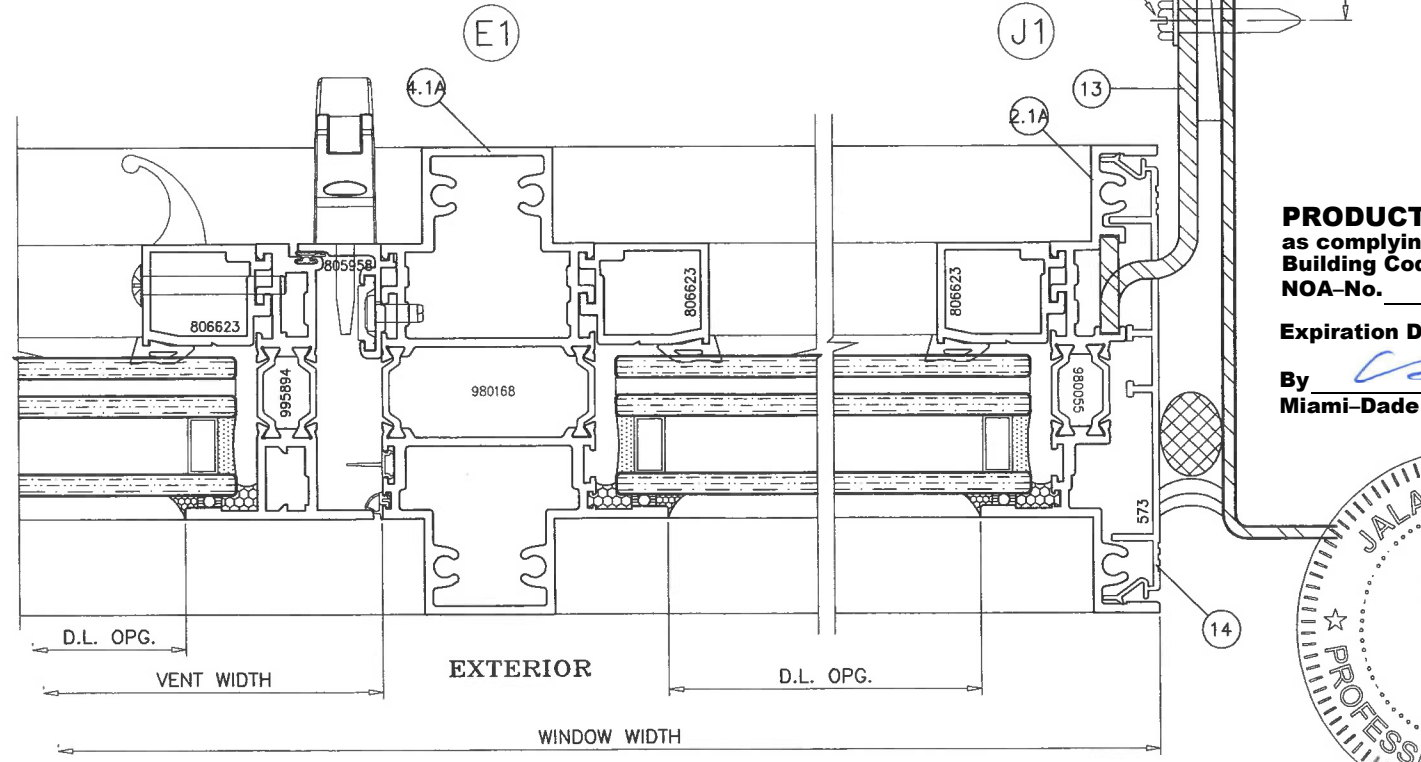
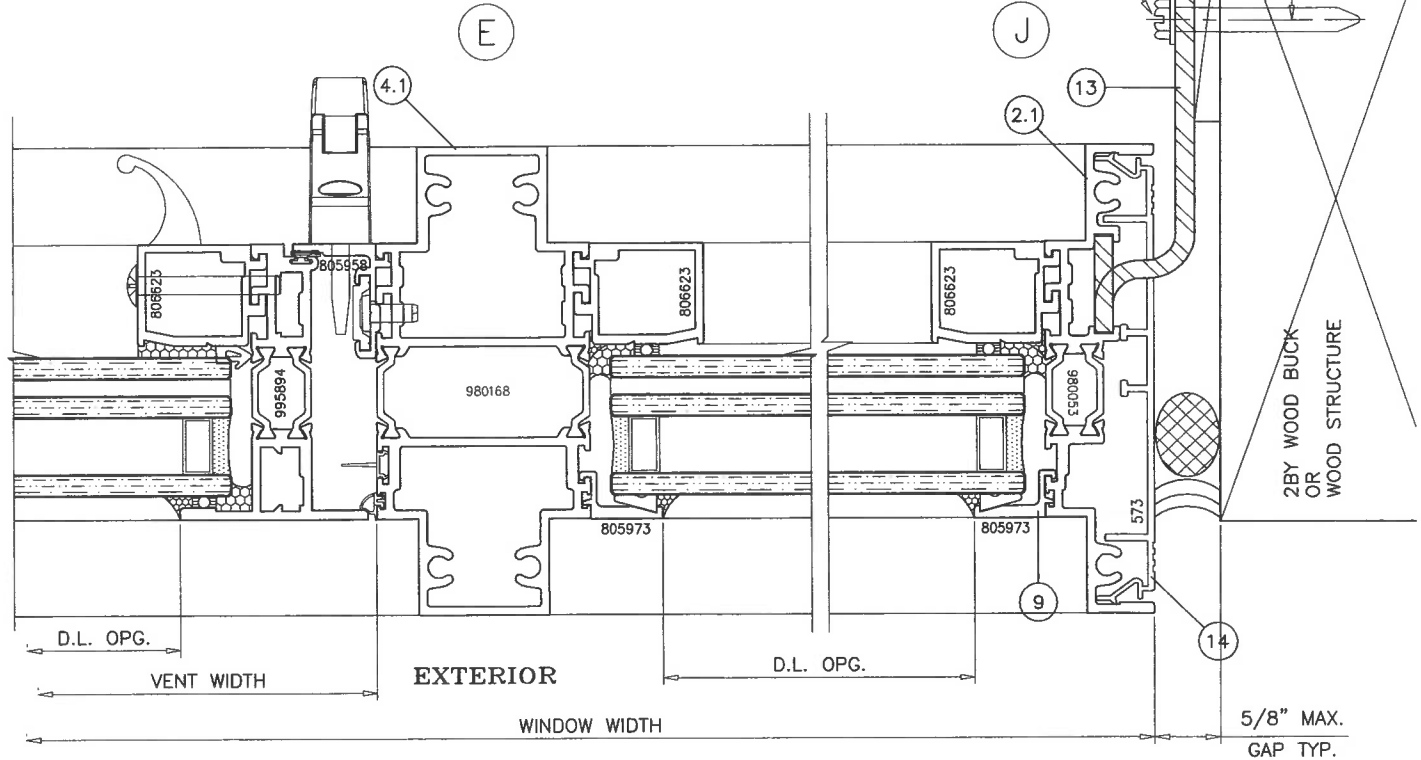
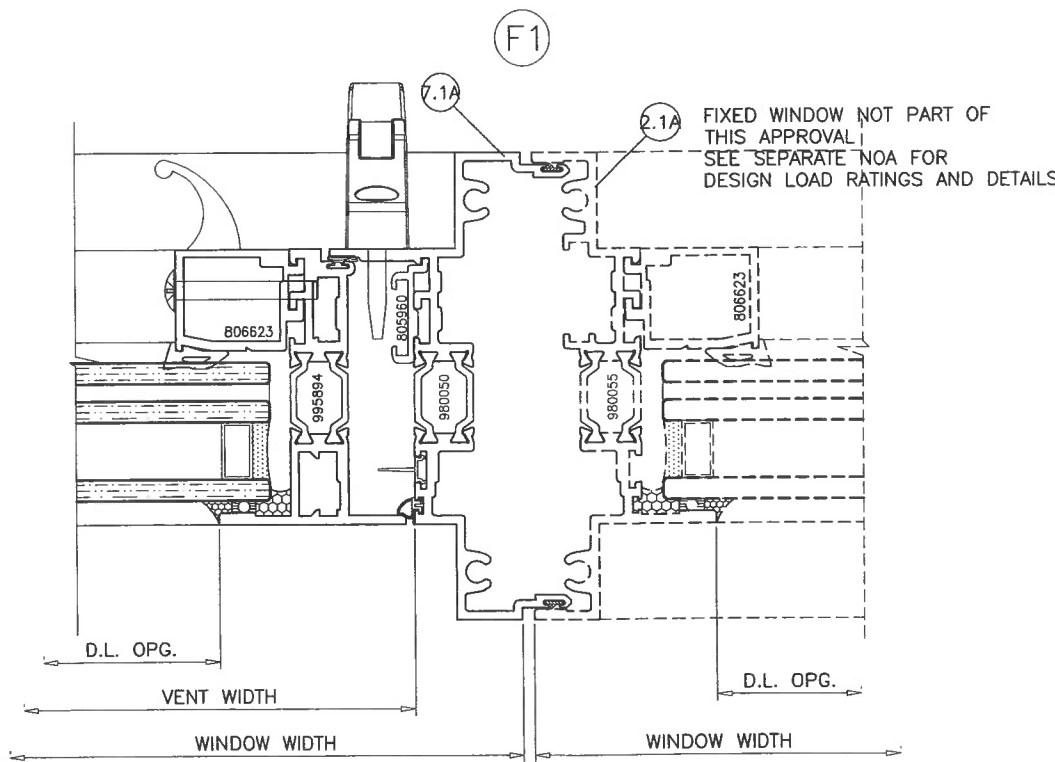
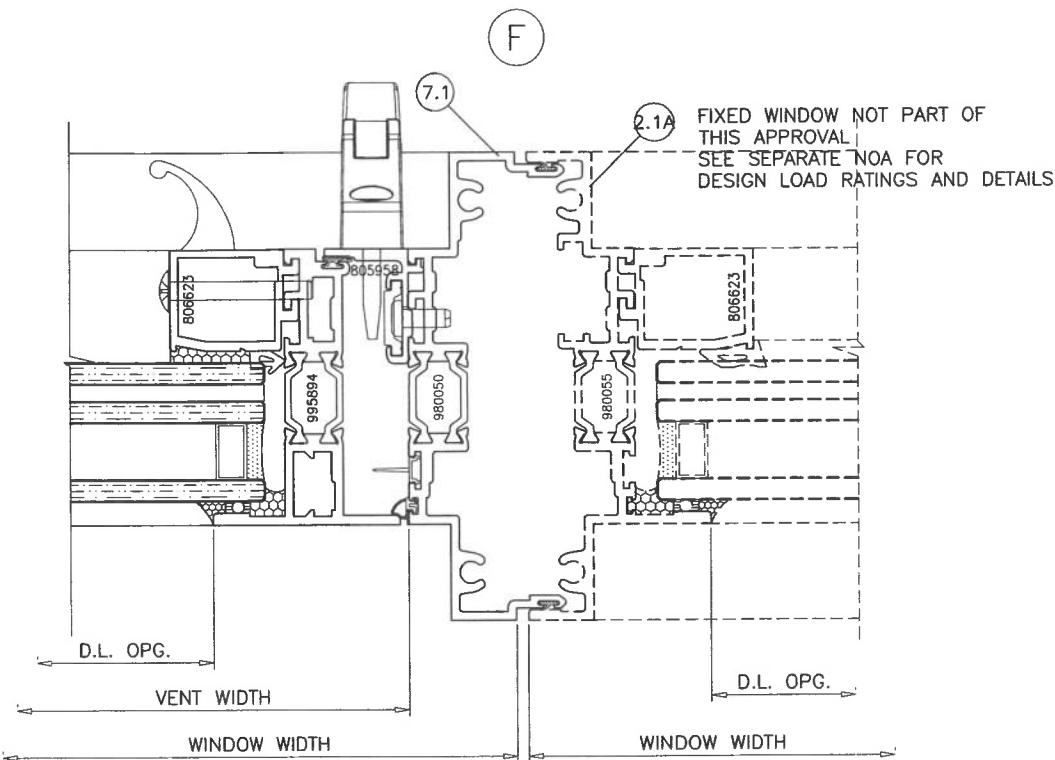
3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems,**  
Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

revisions:		no	date	by	description
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chk. by:		drawing no.	W13-29	sheet	23 of 30

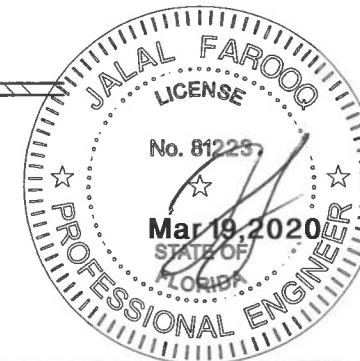


**OS FRAME OPTION:**

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**PRODUCT RENEWED**  
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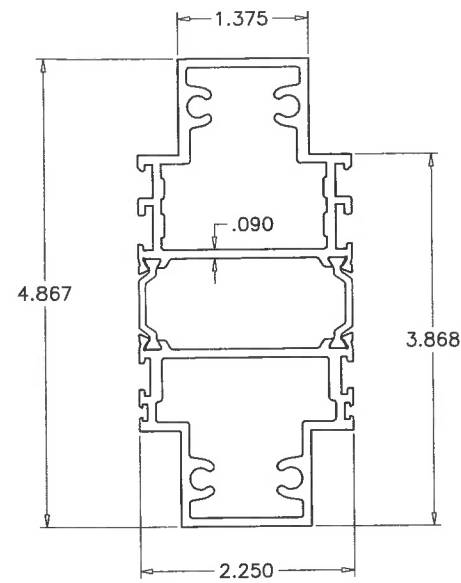
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978

32501-42501-HP-XLT P.O. Casement Wdw. (L.M.I.)  
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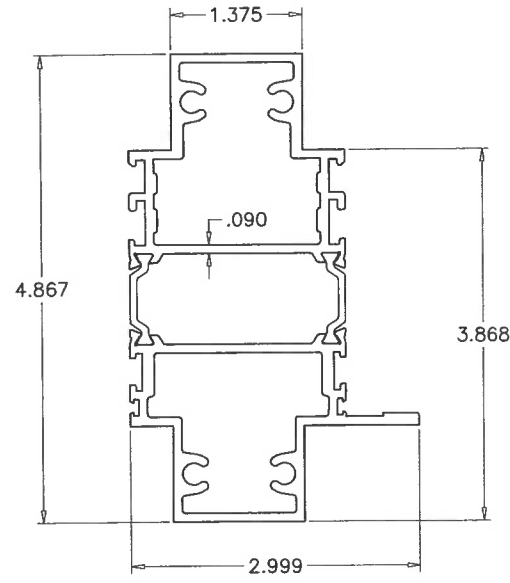
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C	03.19.19 EDITORIAL CHANGES ONLY

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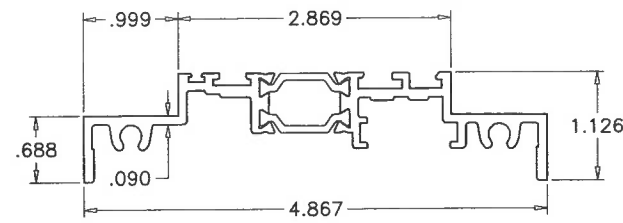
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**W13-29**  
sheet 24 of 30



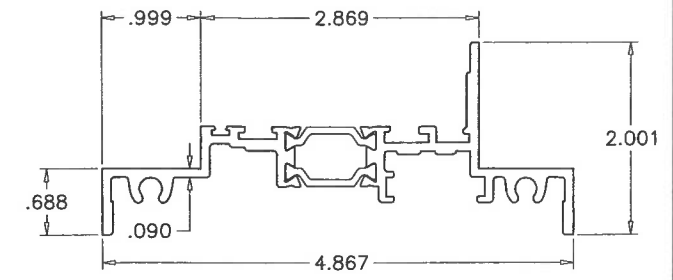
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IMPOST  
980168 (TRIMMED)



SERIES 4250i-OS  
ALT. IMPOST  
980168



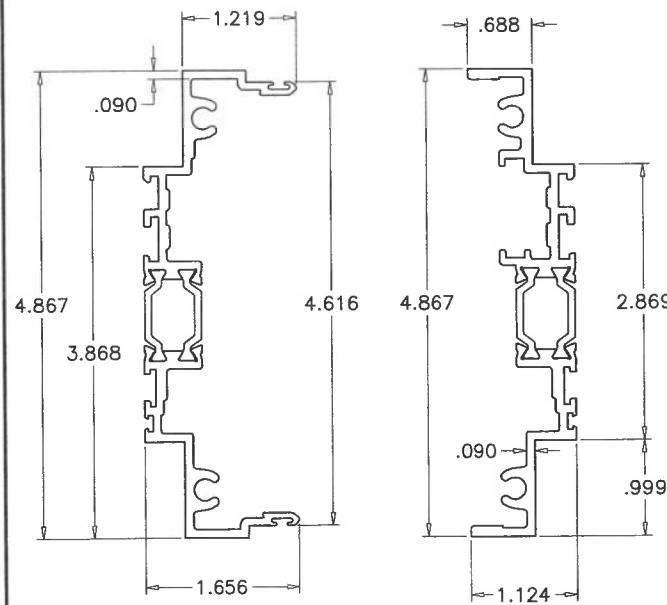
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FRAME HEAD/SILL/JAMB  
980053



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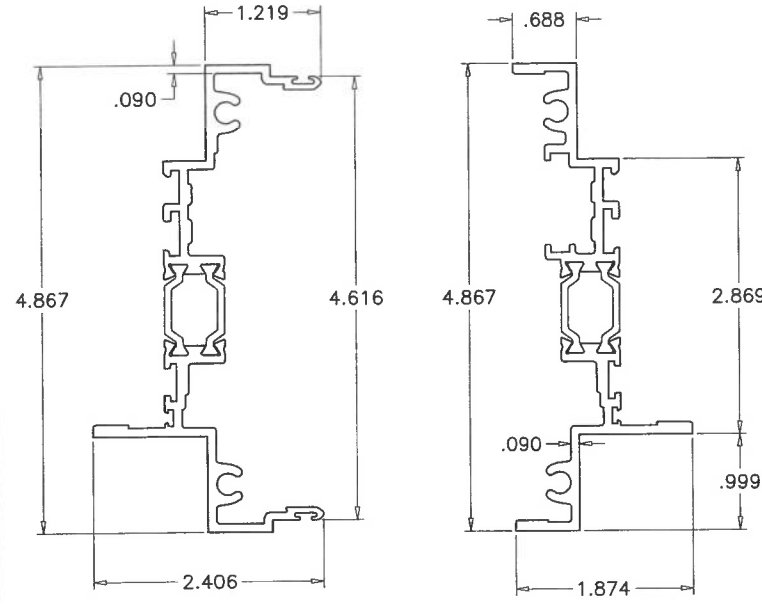
## OS FRAMES

CONTINUOUS POLYAMIDE NYLON THERMAL BARRIER  
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BY 'TECHNOFORM BAUTEC'  
DUROMETR 82±4 SHORE D  
TYPICAL ALL FRAMES



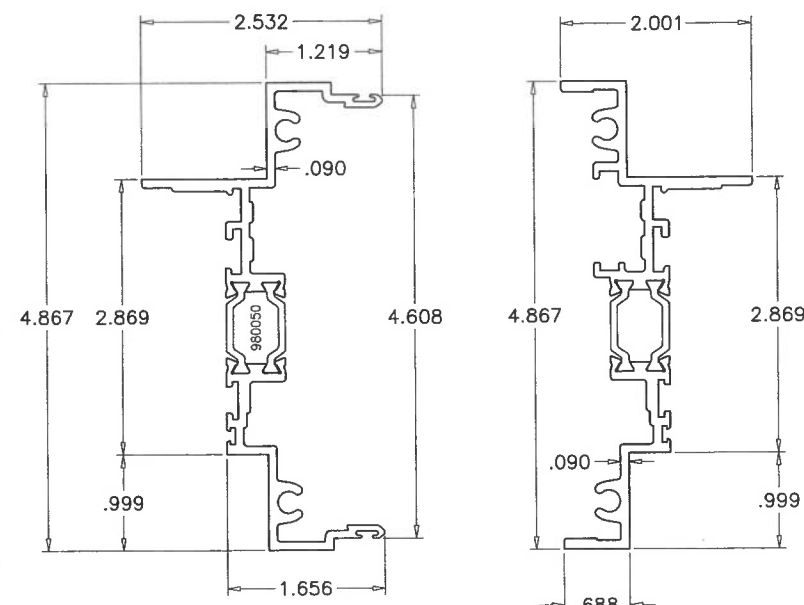
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SERIES 4250i-OS  
FEMALE MULLION  
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SERIES 4250i-OS  
ALT. MALE MULLION  
980054

SERIES 4250i-OS  
FEMALE MULLION  
980055



SERIES 4250i-OS  
MALE MULLION  
980050

SERIES 4250i-OS  
FEMALE MULLION  
980051

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COMP-ANL\W13-29WW

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
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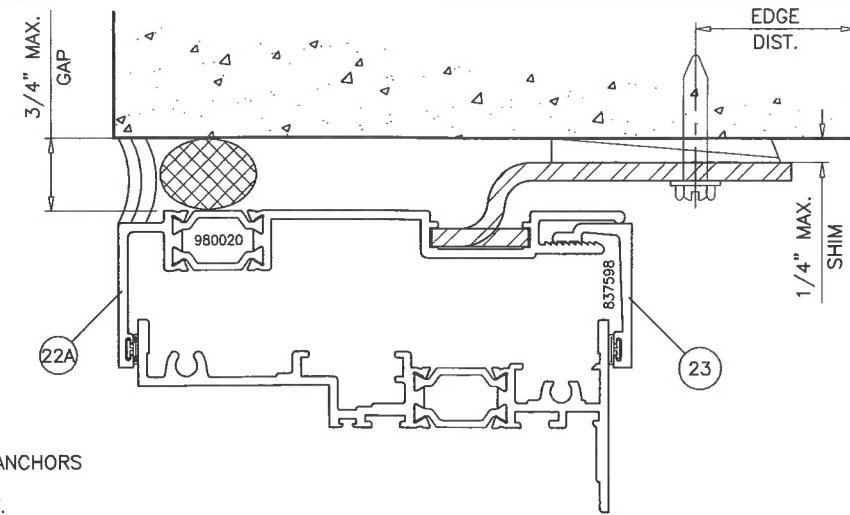
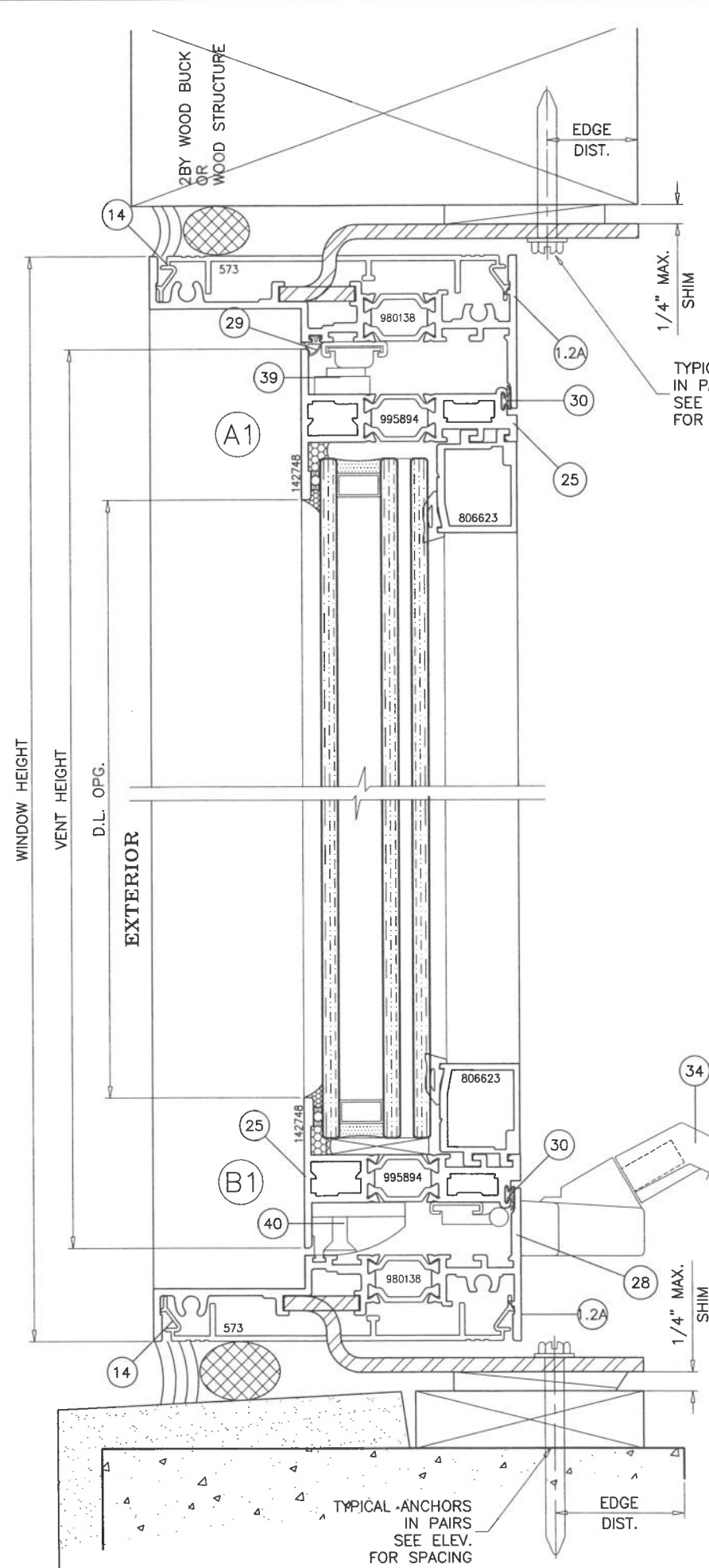
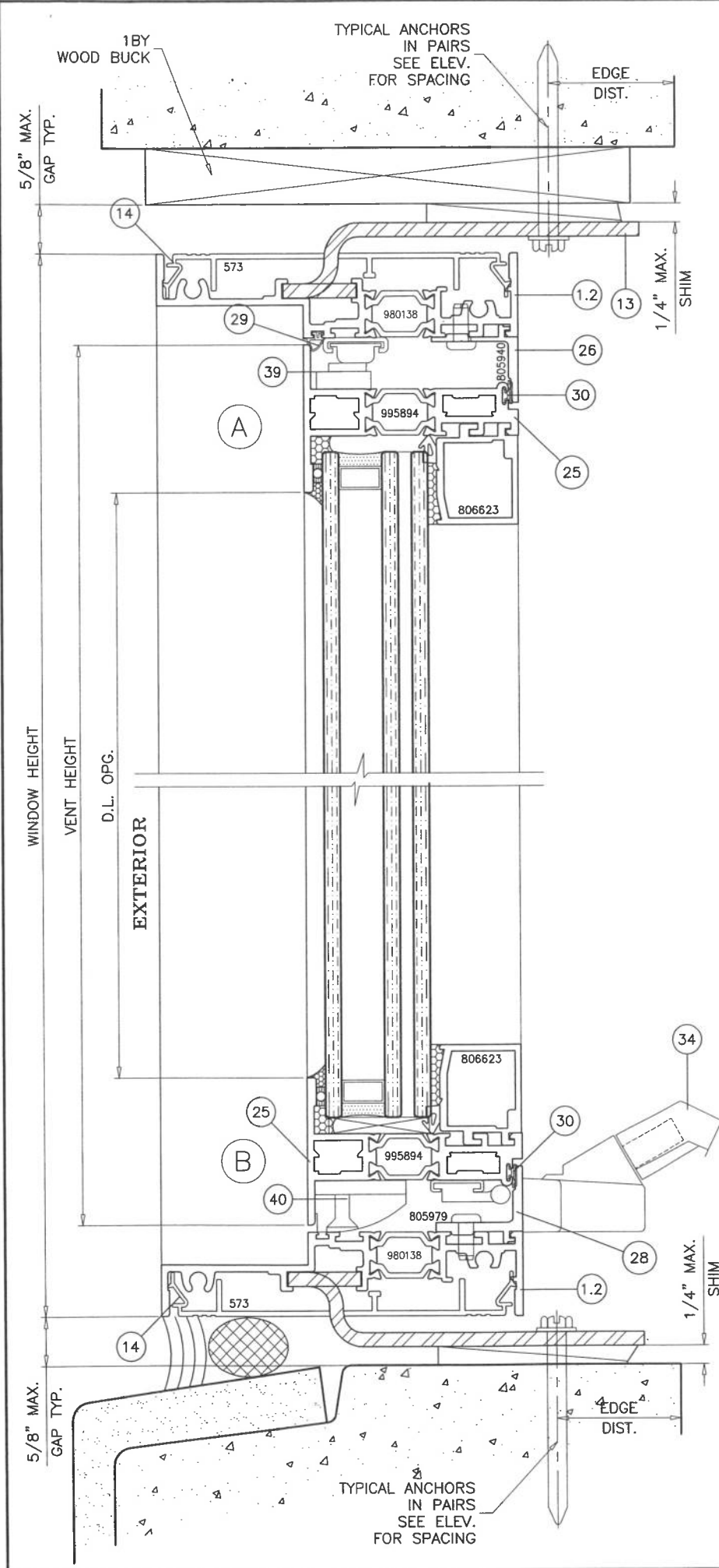
  

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chk. by:	


drawing no.	W13-29
sheet	25 of 30

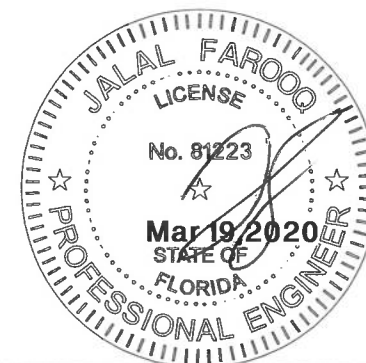




### SDH FRAME OPTION:

THESE WINDOWS MAY BE INSTALLED WITH SDH FRAMES IN LIEU OF STANDARD FRAMES AS SHOWN IN THIS SHEET. WINDOW CAPACITIES, GLAZING METHODS AND ANCHORING DETAILS SHOWN FOR STANDARD FRAMES ALSO APPLIES TO SDH FRAMES.

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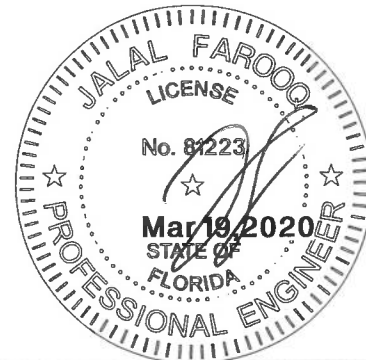
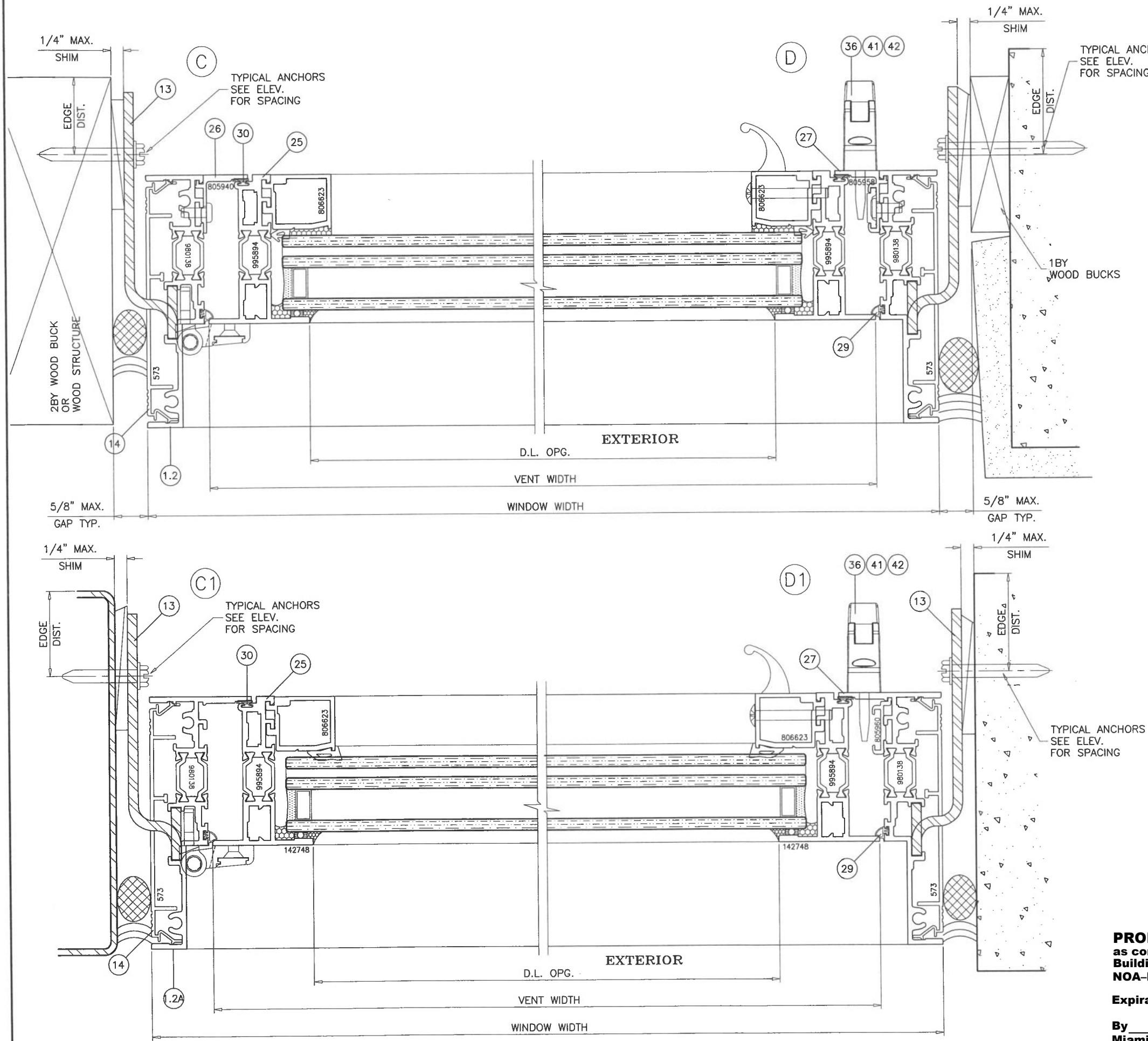


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COMP-ANL W13-29WW

3250I-4250I-HP-XLT P.O. Casement Wdw. (L.M.I.)  
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W13-29		chk. by:	
sheet 26 of 30			





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**SDH FRAME OPTION:**  
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STANDARD FRAMES AS SHOWN IN THIS SHEET.  
WINDOW CAPACITIES, GLAZING METHODS AND ANCHORING DETAILS  
SHOWN FOR STANDARD FRAMES ALSO APPLIES TO SDH FRAMES.

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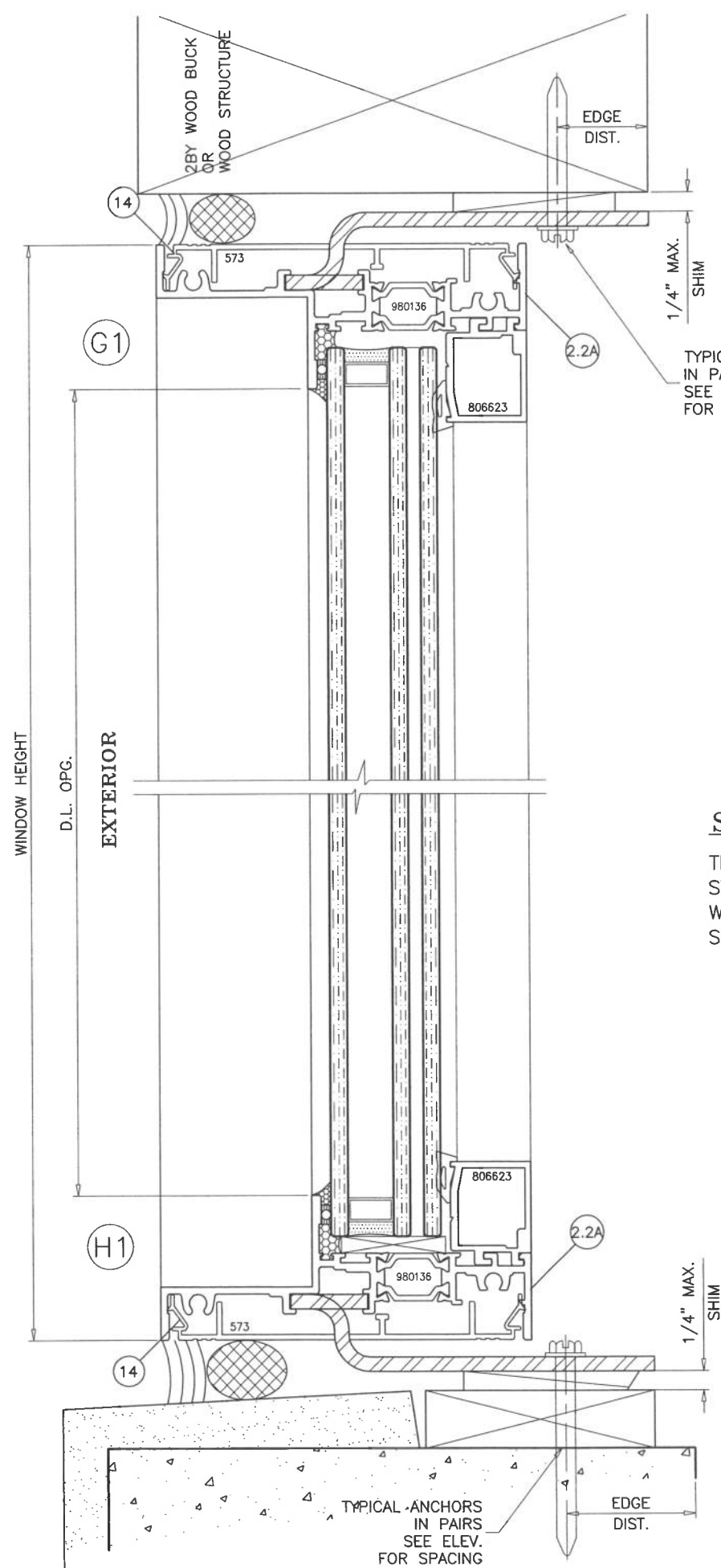
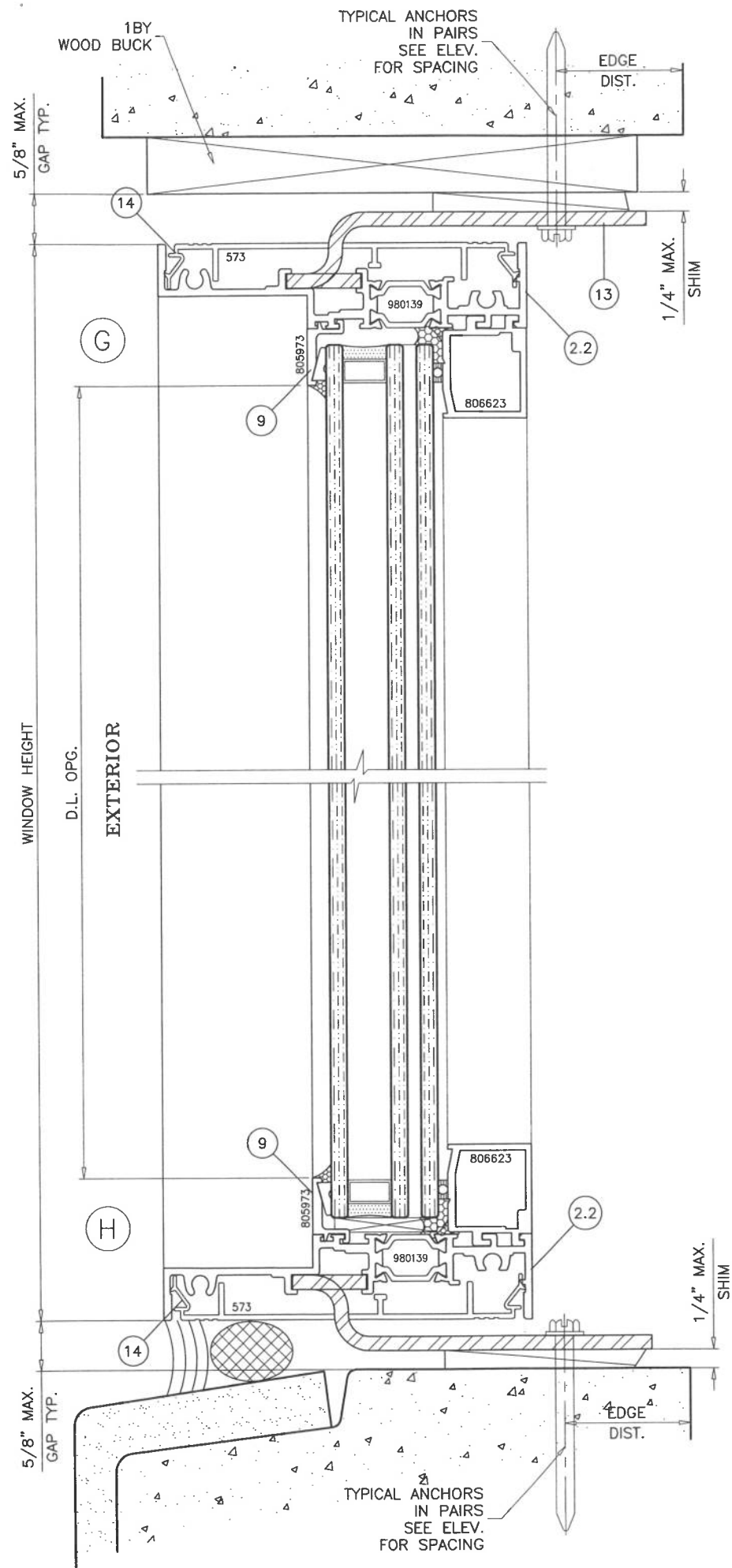
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date:	06-04-13
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dr. by:	TARIQ
chk. by:	

drawing no.  
**W13-29**  
sheet 27 of 30

3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems,**  
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7800 INTERNATIONAL DRIVE  
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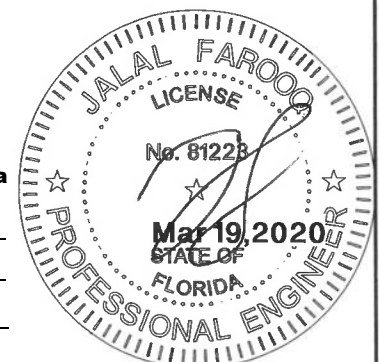
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
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### SDH FRAME OPTION:

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9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W13-29WW

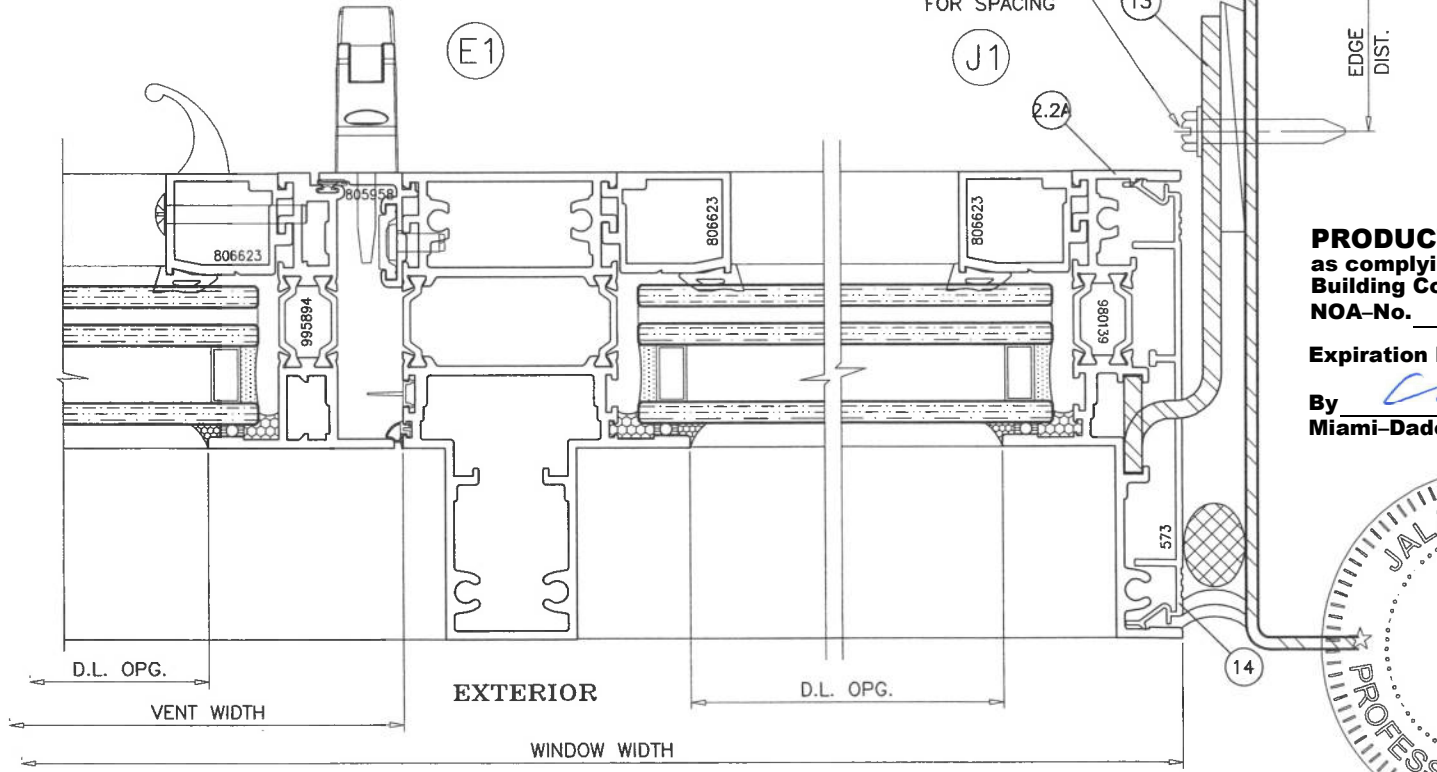
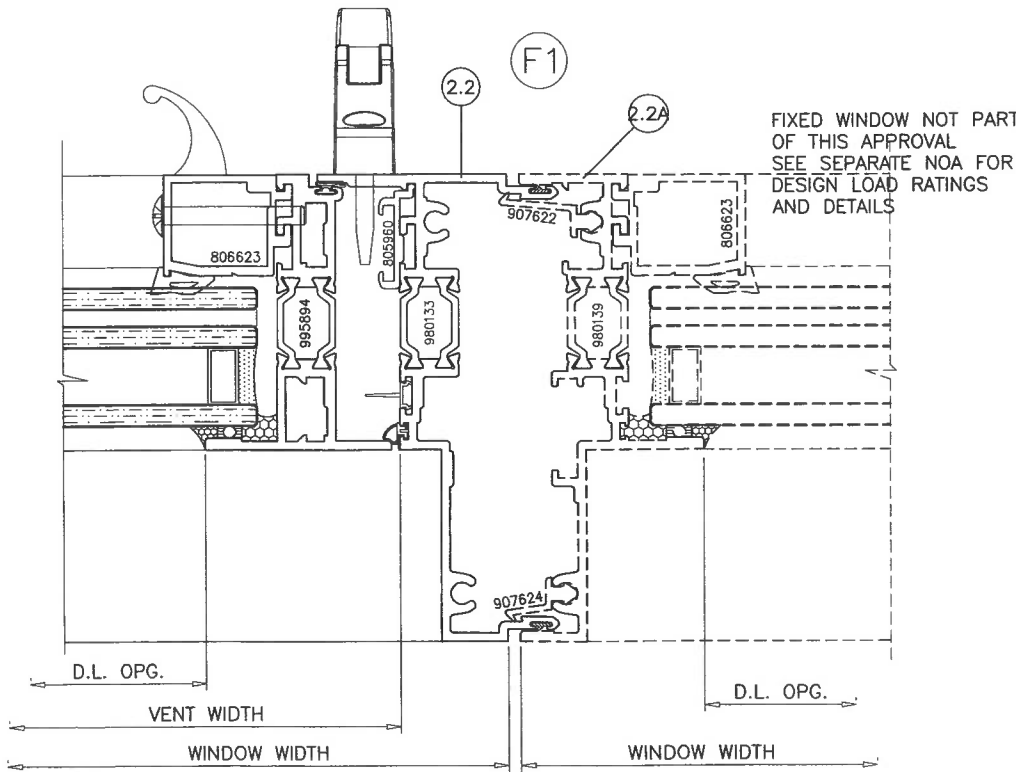
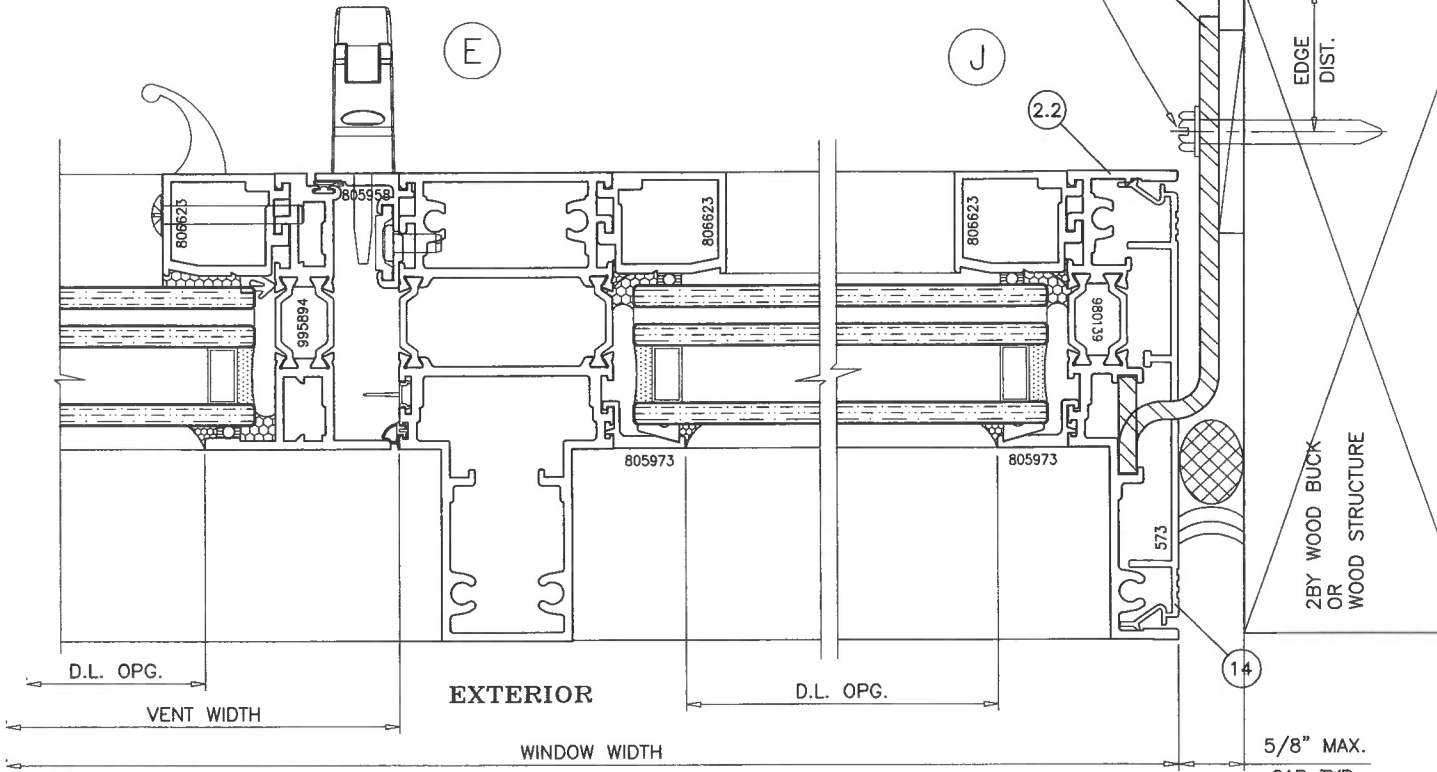
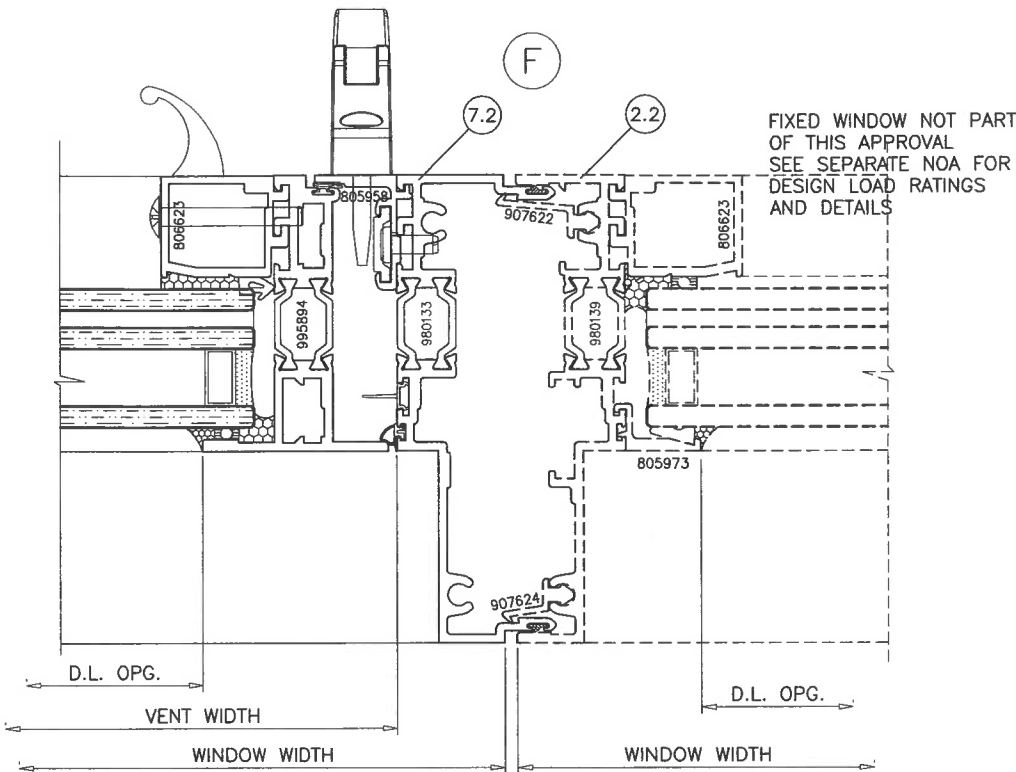
3250i-4250i-HP-XLT P.O. Casement Wdw. (L.M.I.)  
**Wausau Window & Wall Systems,**  
Division Of Apogee Wausau Group, Inc.  
7800 INTERNATIONAL DRIVE  
WAUSAU, WI 54401  
TEL. (715) 845-2161 FAX. (715) 843-4055

Revisions:		by	description
no.	date		
A	12.24.13	REV. PER COMMENTS	
B	03.13.14	NO CHANGE THIS SHEET	
C	03.19.19	EDITORIAL CHANGES ONLY	
date: 06-04-13		scale: 1/2" = 1"	
drawing no.		dr. by: TARIQ	
W13-29		chk. by:	
sheet 28 of 30			



SDH FRAME OPTION:

THESE WINDOWS MAY BE INSTALLED WITH SDH FRAMES IN LIEU OF STANDARD FRAMES AS SHOWN IN THIS SHEET. WINDOW CAPACITIES, GLAZING METHODS AND ANCHORING DETAILS SHOWN FOR STANDARD FRAMES ALSO APPLIES TO SDH FRAMES.



**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0429.01  
Expiration Date May 21, 2025  
By   
Miami-Dade Product Control



**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-29WW

32501-42501-HP-XLT P.O. Casement Wdw. (L.M.I.)

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dr. by: TARIQ

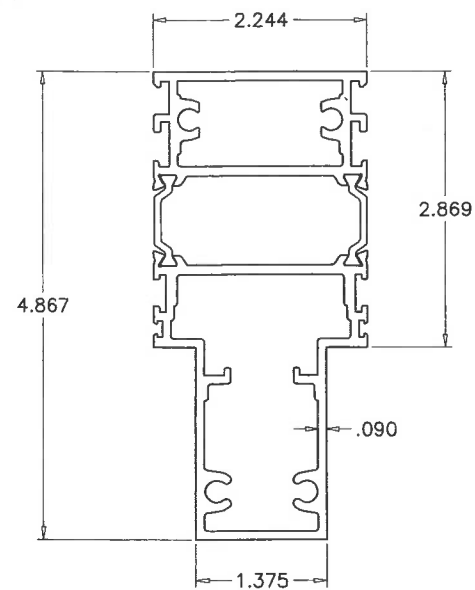
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drawing no.

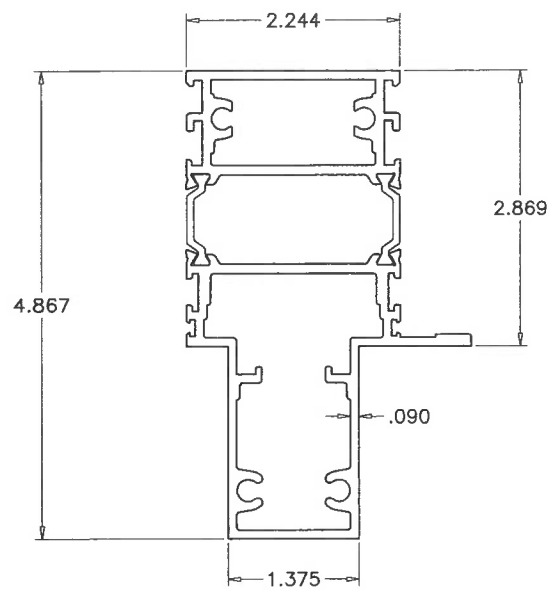
**W13-29**

sheet 29 of 30

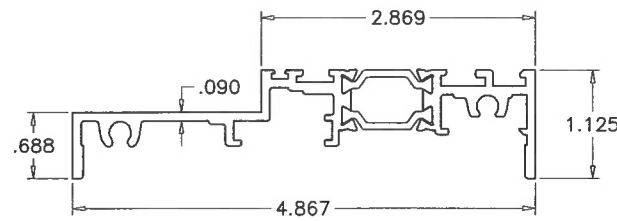




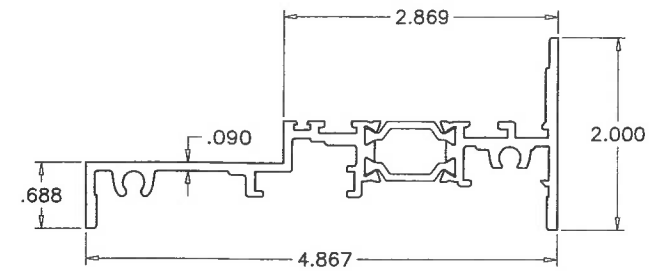
SERIES 4250i-SDH  
IMPOST



SERIES 4250i-SDH  
ALT. IMPOST



SERIES 4250i-SDH  
FRAME HEAD/SILL/JAMB  
980138 (TRIMMED)



SERIES 4250i-SDH  
ALT. FRAME HEAD/SILL/JAMB  
980138

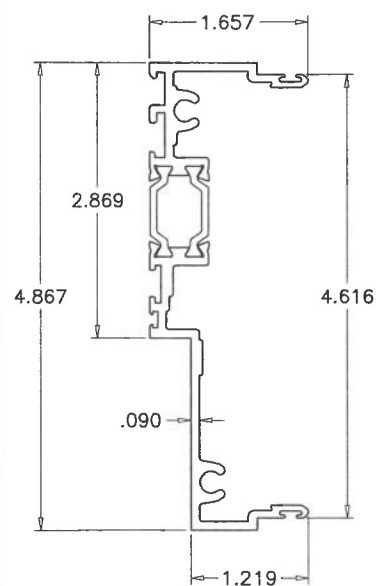
1.2

1.2A

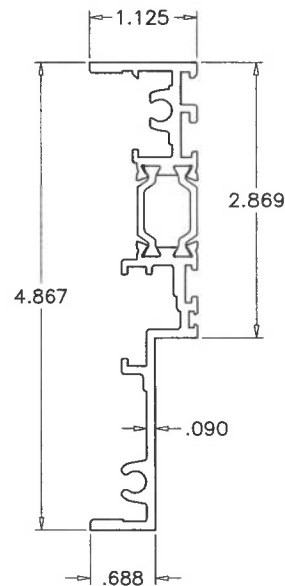


CONTINUOUS POLYAMIDE NYLON THERMAL BARRIER  
MECHANICALLY CRIMPED INTO CROSS KNURLED CAVITIES  
BY 'TECHNOFORM BAUTEC'  
DUROMETR 82±4 SHORE D  
TYPICAL ALL FRAMES

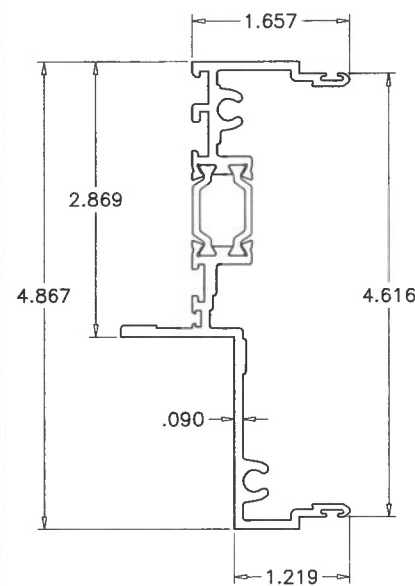
## SDH FRAMES



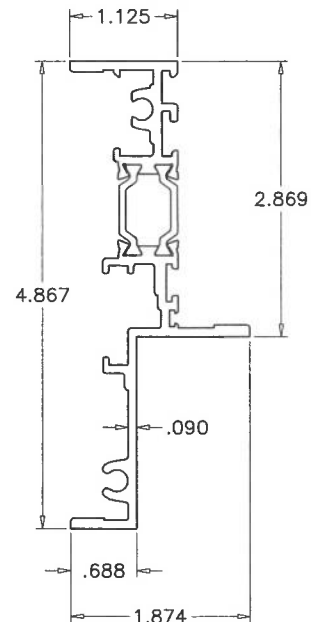
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MALE MULLION  
980134



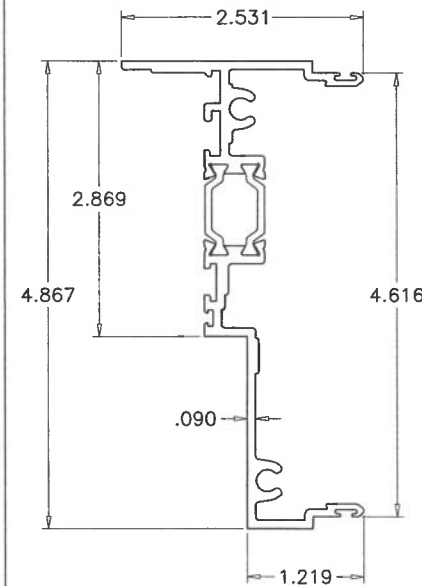
2.2 SERIES 4250i-SDH  
FEMALE MULLION  
980139



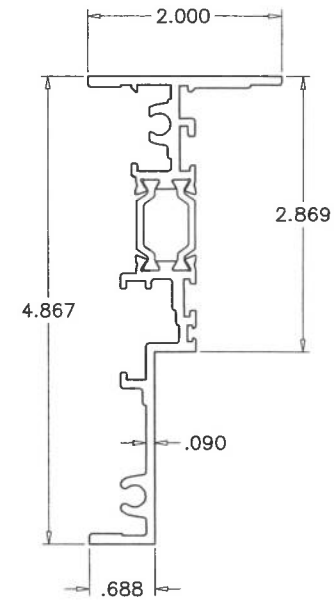
7.2A SERIES 4250i-SDH  
ALT. MALE MULLION  
980137



2.2A SERIES 4250i-SDH  
ALT. FEMALE MULLION  
980136



7.2A SERIES 4250i-SDH  
MALE MULLION  
980133



7.2A SERIES 4250i-SDH  
FEMALE MULLION  
980138

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**af**

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chk. by:	

drawing no.  
**W13-29**

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