



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  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/building](http://www.miamidade.gov/building)

**Tecnoglass, LLC**  
3550 NW 49 Street  
Miami, FL 33142

**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 "HP-3060/ 3070" Aluminum Project-Out Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W04-99**, titled "HP 3060/ 3070 Alum. Project-Out Window (L.M.I.)", sheets 1, 1.1, 2, 2.1, 3, 4, 4.1, 5, 5.1, 6, 6.1 and 7 of 7, dated 11/26/04, with revision **K** dated 09/20/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control 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, **Barranquilla, Colombia S.A.**, 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 and renews** NOA No. **21-0317.06** and consists of this page 1, evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



  
10/16/23

NOA No. **23-0928.06**  
Expiration Date: **October 04, 2024**  
Approval Date: **October 26, 2023**  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**


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

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 05-0120.04)*
2. Drawing No. **W04-99**, titled "HP3060/ 3070 Alum. Project-Out Window (L.M.I.)", sheets 1, 1.1, 2, 2.1, 3, 4, 4.1, 5, 5.1, 6, 6.1 and 7 of 7, dated 11/26/04, with revision J dated 11/20/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 21-0317.06)*

**B. TESTS**

1. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of aluminum projected-out window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4309**, dated 09/28/04, signed and sealed by Edmundo J. Largaespada, P.E.  
*(Submitted under NOA No. 05-0120.04)*
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 aluminum window wall system with projected-out window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3945**, dated 10/20/03, signed and sealed by Edmundo J. Largaespada, P.E.  
*(Submitted under NOA No. 05-0120.04)*
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, Per FBC 2411.3.2.1 (b) TAS 202-94  
5) Small Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of aluminum window wall system with projected-out window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4313**, dated 09/28/04, signed and sealed by Edmundo J. Largaespada, P.E.  
*(Submitted under NOA No. 05-0120.04)*  
**(Reference Only!)**

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0928.06  
Expiration Date: October 04, 2024  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, dated 07/06/16, revised on 08/09/18 and updated on 02/12/21 to comply with **FBC 7<sup>th</sup> Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 21-0317.06)*
2. Glazing complies with **ASTM E 1300-09**

**D. QUALITY ASSURANCE**

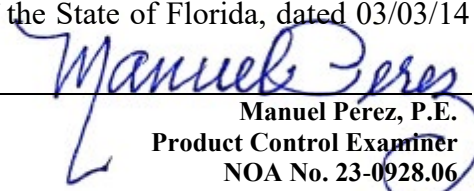
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**" dated 05/23/19, expiring on 05/23/24.
2. TREMCO Part No. **TR-14271E** EPDM exterior glazing gasket complying with ASTM C 864 Option II exceptions, ASTM D412 passed 1600 psi, D395-03 Test Method B passed 22 hrs. at 158°F.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, and of no financial interest, dated February 12, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 21-0317.06)*
2. Distribution agreement dated 02/17/17 between Energia Solar, SA, Columbia and Tecnoglass, LLC (USA), signed by MS. Carla Garcia, Int'l Sales Manager and MS. Evelyn Daes, General Manager on behalf of their respective companies.  
*(Submitted under NOA No. 16-0309.04)*
3. Asset purchase agreement dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC (submitted under file #**14-0807.15**).  
*(Submitted under NOA No. 16-0309.04)*
4. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. **12-0410.28**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.  
*(Submitted under NOA No. 16-0309.04)*
5. Department of State Certification of **TECNOGLASS, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/03/14 and signed by Ken Detzner, Secretary of State.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0928.06  
Expiration Date: October 04, 2024  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**F. STATEMENTS (CONTINUED)**

6. Approval letter for change of extrusion, dated 04/27/05, signed by Manuel Perez, P.E.  
*(Submitted under NOA No. 05-0817.12)*
7. Proposal issued by Product Control, dated 04/27/05, signed by Manuel Perez, P.E.  
*(Submitted under NOA No. 05-0120.04)*
8. Laboratory compliance letter for Test Reports No. **FTL-4309** and **FTL-3945**, issued by Fenestration Testing Laboratory, Inc., dated 09/28/04 and 10/20/03 respectively, both signed and sealed by Edmundo J. Largaespada, P.E.  
*(Submitted under NOA No. 05-0120.04)*

**G. OTHERS**

1. Notice of Acceptance No. **16-0309.04**, issued to Tecnoglass, LLC., for their Series **"HP-3060/3070" Aluminum Project-Out Window – L.M.I.**, approved on 10/04/18 and expiring on 10/04/23.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0928.06

Expiration Date: October 04, 2024  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W04-99**, titled “HP3060/ 3070 Alum. Project-Out Window (L.M.I.)”, sheets 1, 1.1, 2, 2.1, 3, 4, 4.1, 5, 5.1, 6, 6.1 and 7 of 7, dated 11/26/04, with revision **K** dated 09/20/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

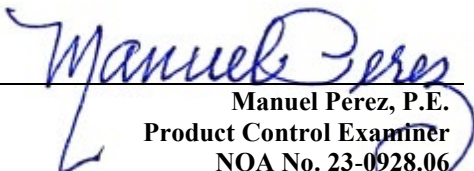
1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/15/22, expiring on 07/04/28.

**F. STATEMENTS**

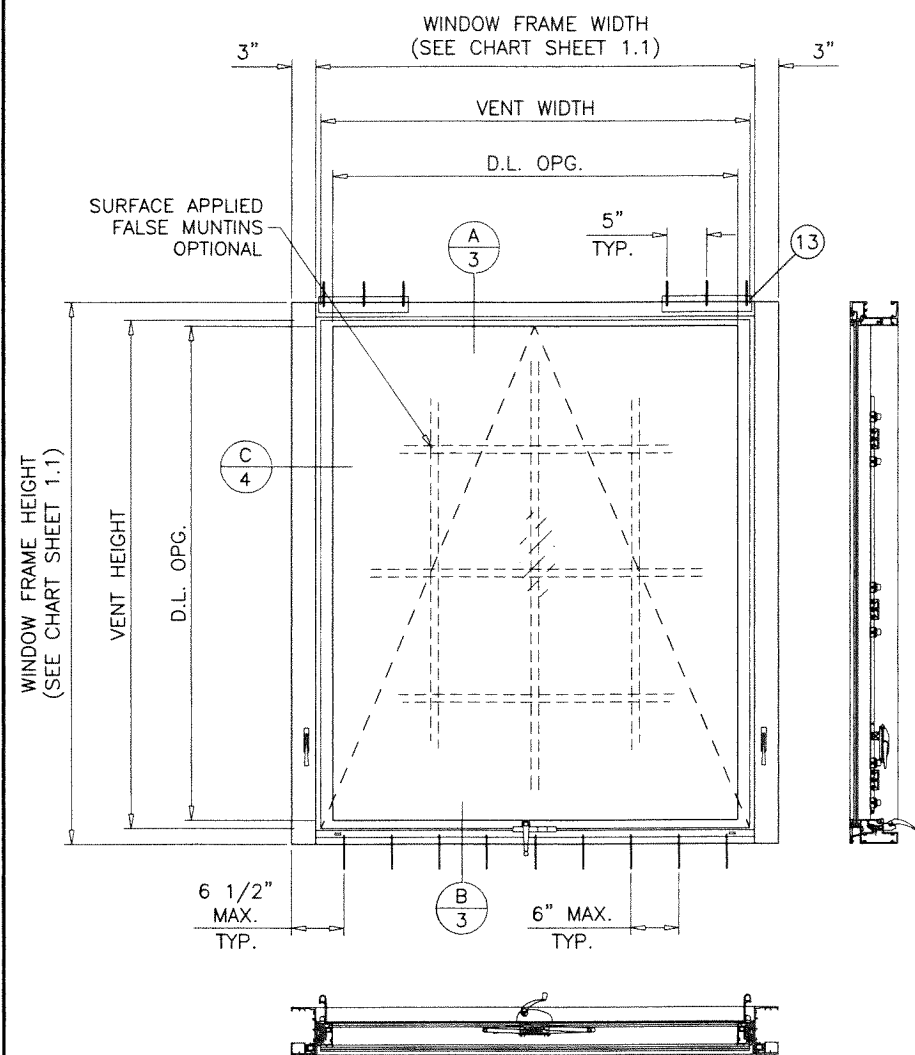
1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, with **FBC 8<sup>th</sup> Edition (2023)** and of no financial interest, dated September 22, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Letter from Professional Engineer requesting a 1-year extension to allow time to perform verification test, dated September 22, 2023, signed by Jalal Farooq, P.E.
3. Testing agreement letter dated September 27, 2023, between QAI Laboratories, Inc. (QAI) and E.S. Windows, LLC, issued by QAI and signed by Lusinda Delgado, Technical Report Writer.

**G. OTHERS**

1. Notice of Acceptance No. **21-0317.06**, issued to Tecnoglass, LLC., for their Series “**HP-3060/3070**” **Aluminum Project-Out Window – L.M.I.**”, approved on 05/13/21 and expiring on 10/04/23.
2. This is a one-year approval, subjected to successful verification test, the final approval will be issued for a total of 5 years.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0928.06  
Expiration Date: October 04, 2024  
Approval Date: October 26, 2023





### 'X' SIZES (PROJECT OUT)

VENT WIDTH = WINDOW FRAME WIDTH - 7.250"  
 GLASS D.L.O. WIDTH = VENT WIDTH - 3.0"  
 VENT HEIGHT = WINDOW FRAME HEIGHT - 3.250"  
 GLASS D.L.O. HEIGHT = VENT HEIGHT - 2.750"

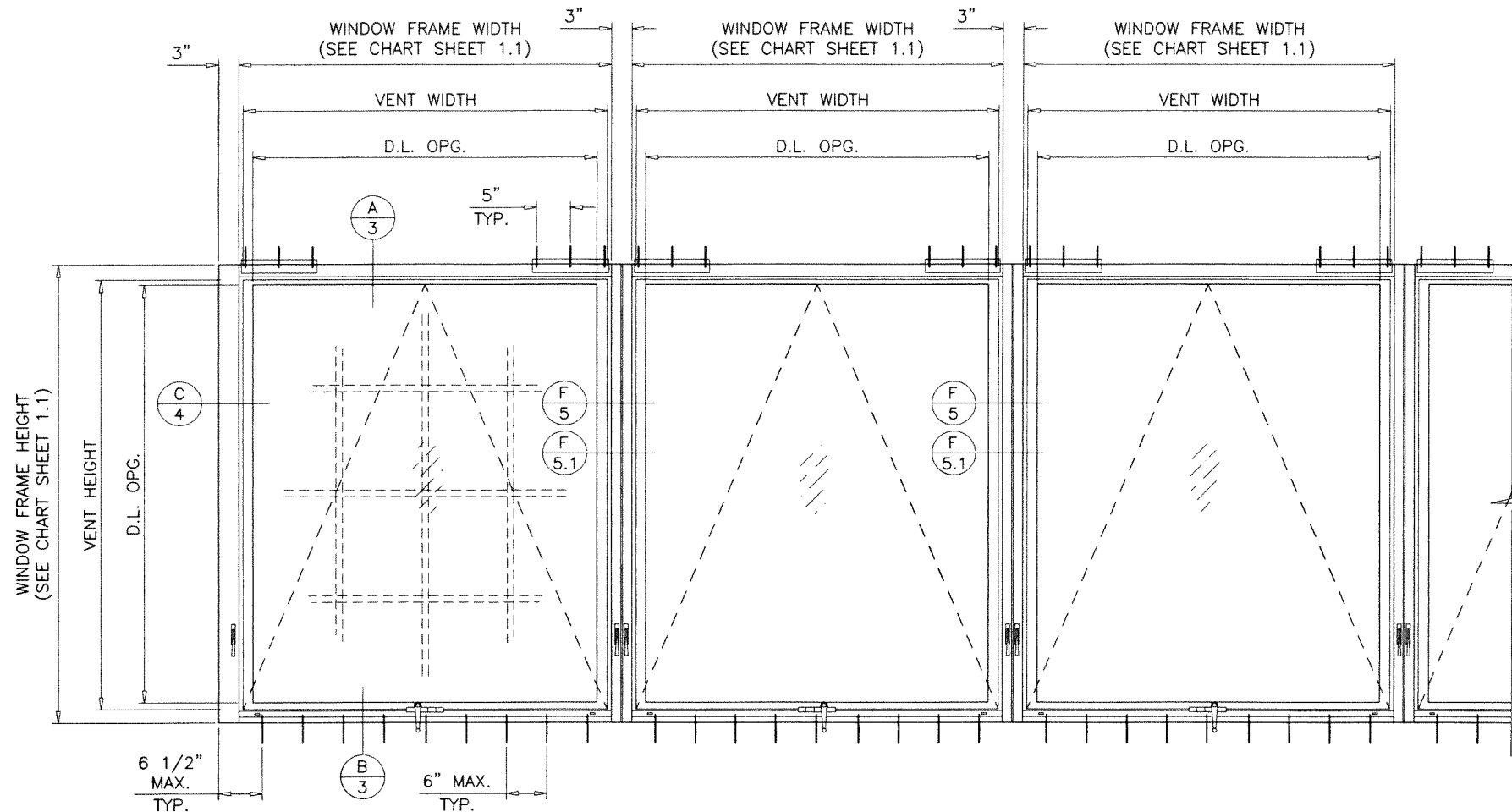
THESE WINDOWS ARE RATED FOR LARGE AND SMALL MISSILE IMPACT.  
 SHUTTERS ARE NOT REQUIRED.

### HP3060/3070 ALUMINUM PROJECT-OUT WINDOW

APPROVAL APPLIES TO SINGLE OR MULTIPLE UNITS USING HP3060-036 OR HP3060-044 FRAME JAMBS.  
 SEE CHART ON SHEET 1.1 FOR PROJECT-OUT WINDOW CAPACITY.

ALSO PROJECT-OUT WINDOWS INSTALLED WITHIN MIAMI-DADE COUNTY APPROVED TECNOGLASS HP3060 OR HP3070 WINDOW WALL SYSTEMS.  
 SEE SHEET 2 FOR APPROVED CONFIGURATIONS AND SHEETS 5 AND 5.1 FOR DETAILS.

FOR TECNOGLASS HP3060 & HP3070 WINDOW WALL SYSTEM MULLION, GLASS AND ANCHOR CAPACITIES SEE SEPARATE NOA.  
 LOWER DESIGN PRESSURES FROM WINDOW CAPACITY CHART OR WINDOW WALL NOA WILL APPLY TO ENTIRE SYSTEM.



THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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.

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

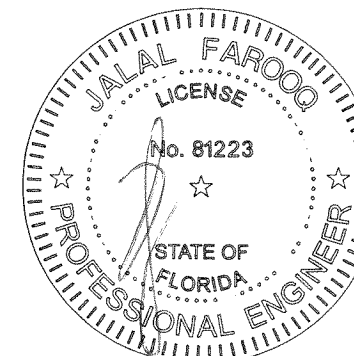
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

**PRODUCT REVISED**  
 As complying with the Florida Building Code  
 NOA-No. **23-0928.06**  
 Expiration Date: **10/04/2024**  
 By: *Manuel Lopez*  
 Miami-Dade Product Control

**LAMINATED GLASS**  
**LARGE MISSILE IMPACT**



SEP 22 2023

**af c**

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

HP3060/3070 ALUM. PROJECT-OUT WINDOW (L.M.I.)

**TECNOGLASS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	by	description
		G	02.08.16		GENERAL REVISION
		H	07.18.16		REV. PER RER COMMENTS
		I	06.07.18		REV. PER RER COMMENTS
		J	11.20.20		UPDATED TO 2020 FBC
		K	09.20.23		UPDATED TO 2023 FBC

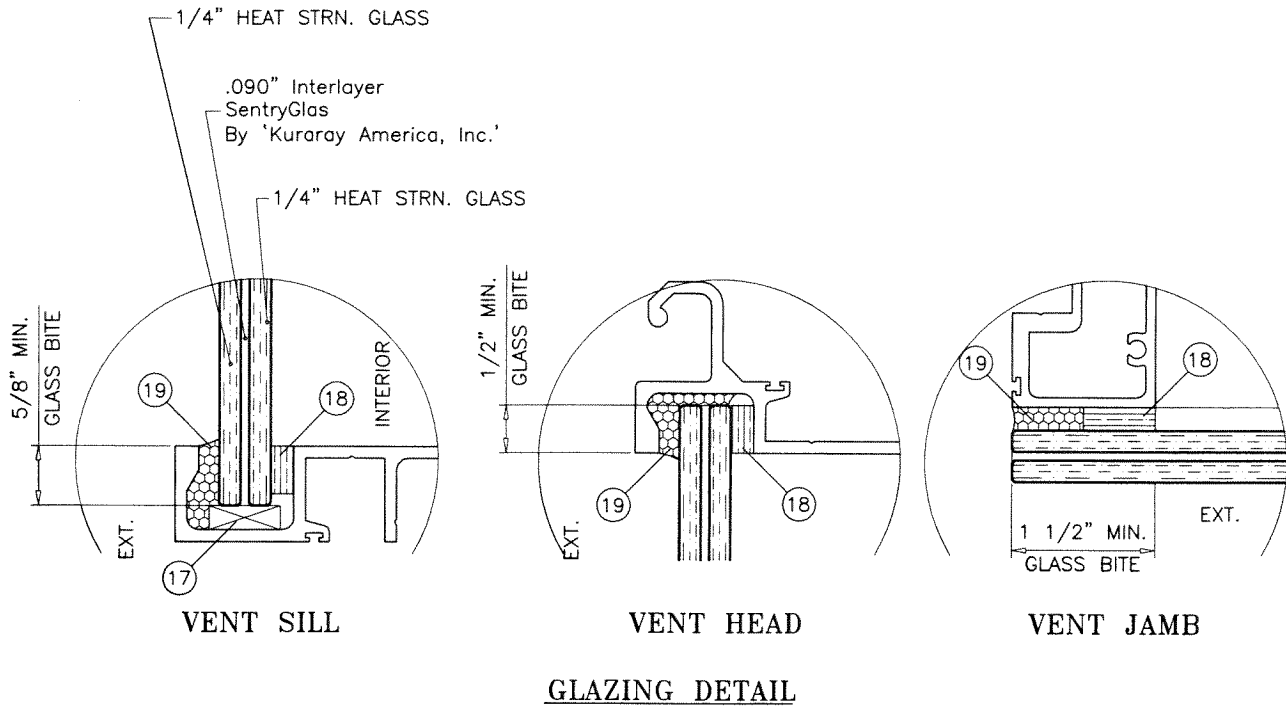
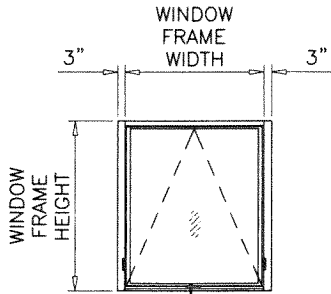
  

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dr. by:	TARIQ
chk. by:	

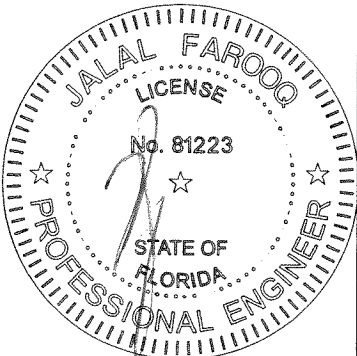
  

drawing no.	W04-99
sheet	1 of 7

DESIGN LOAD CAPACITY – PSF SINGLE VENT PROJECT-OUT WINDOW					
FRAME SIZES		VENT SIZES		9/16" LAM. GLASS	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT. (+)	INT. (–)
31-1/4"	27-1/4"	24"	24"	120.0	120.0
37-1/4"		30"		120.0	120.0
40-1/4"		33"		120.0	120.0
43-1/4"		36"		120.0	120.0
48"		40-3/4"		120.0	120.0
31-1/4"	33-1/4"	24"	30"	120.0	120.0
37-1/4"		30"		120.0	120.0
40-1/4"		33"		120.0	120.0
43-1/4"		36"		120.0	120.0
48"		40-3/4"		120.0	120.0
31-1/4"	39-1/4"	24"	36"	120.0	120.0
37-1/4"		30"		120.0	120.0
40-1/4"		33"		120.0	120.0
43-1/4"		36"		120.0	120.0
48"		40-3/4"		120.0	120.0
31-1/4"	45-1/4"	24"	42"	100.0	110.0
37-1/4"		30"		100.0	110.0
40-1/4"		33"		100.0	110.0
43-1/4"		36"		79.4	79.4
48"		40-3/4"		43.0	47.3
31-1/4"	51-1/4"	24"	48"	100.0	110.0
37-1/4"		30"		100.0	110.0
40-1/4"		33"		100.0	110.0
43-1/4"		36"		70.6	77.7
48"		40-3/4"		43.0	47.3
31-1/4"	57-1/4"	24"	54"	100.0	110.0
37-1/4"		30"		100.0	110.0
40-1/4"		33"		100.0	110.0
43-1/4"		36"		70.6	77.7
48"		40-3/4"		43.0	47.3
31-1/4"	63-1/4"	24"	60"	100.0	110.0
37-1/4"		30"		100.0	110.0
40-1/4"		33"		100.0	110.0
43-1/4"		36"		70.6	77.7
48"		40-3/4"		43.0	47.3
31-1/4"	69-1/4"	24"	66"	100.0	110.0
37-1/4"		30"		100.0	110.0
40-1/4"		33"		100.0	110.0
43-1/4"		36"		70.6	77.7
48"		40-3/4"		43.0	47.3
31-1/4"	75-1/4"	24"	72"	100.0	110.0
37-1/4"		30"		100.0	110.0
40-1/4"		33"		100.0	110.0
43-1/4"		36"		70.6	77.7
48"		40-3/4"		43.0	47.3
31-1/4"	81-1/4"	24"	78"	100.0	110.0
37-1/4"		30"		100.0	110.0
40-1/4"		33"		100.0	110.0
43-1/4"		36"		70.6	77.7
48"		40-3/4"		43.0	47.3



**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-0928.06**  
Expiration Date: **10/04/2024**  
By: *Manuel Fern*  
Miami-Dade Product Control



SEP 22 2023

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

**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  
STORE\W04-99RC

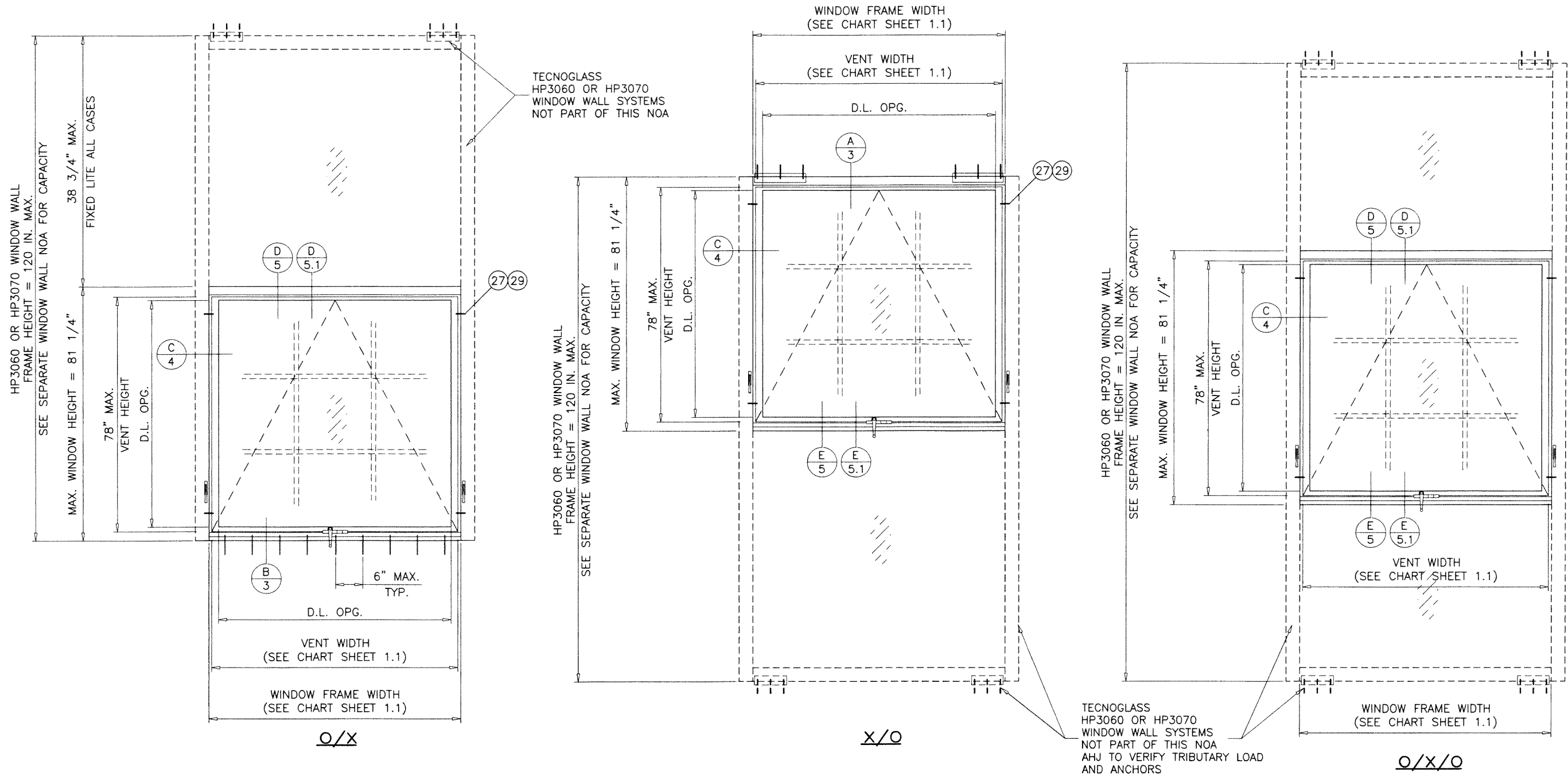
HP3060/3070 ALUM. PROJECT-OUT WINDOW (L.M.I.)  
**TECNOGLASS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
G	02.08.16		GENERAL REVISION
H	07.18.16		REV. PER RER COMMENTS
I	06.07.18		REV. PER RER COMMENTS
J	11.20.20		UPDATED TO 2020 FBC
K	09.20.23		NO CHANGE THIS SHEET

date: 11-26-04  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W04-99**  
sheet 1.1 of 7

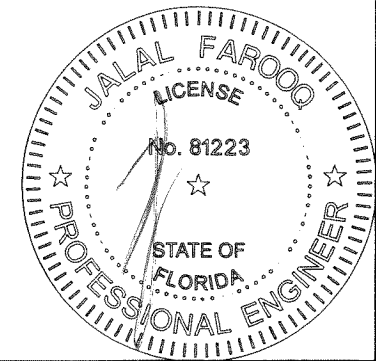




**APPROVED CONFIGURATIONS**

SEE SEPARATE TECNOGLASS NOA FOR HP3060 & HP3070 WINDOW WALL SYSTEMS  
 MULLION, GLASS AND ANCHOR CAPACITIES.  
 LOWER DESIGN PRESSURES FROM WINDOW CAPACITY, HP3060 WINDOW WALL OR  
 HP3070 WINDOW WALL NOA WILL APPLY TO ENTIRE SYSTEM.  
 TO BE REVIEWED BY AUTHORITY HAVING JURISDICTION.

SEP 22 2023



**PRODUCT REVISED**  
 As complying with the Florida  
 Building Code  
 NOA-No. **23-0928.06**  
 Expiration Date: **10/04/2024**  
 By: *Manuel Fern*  
 Miami-Dade Product Control

**AL-FAROOQ CORPORATION**  
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STORE W04-99RC

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HP3060/3070 ALUM. PROJECT-OUT WINDOW (L.M.I.)  
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 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

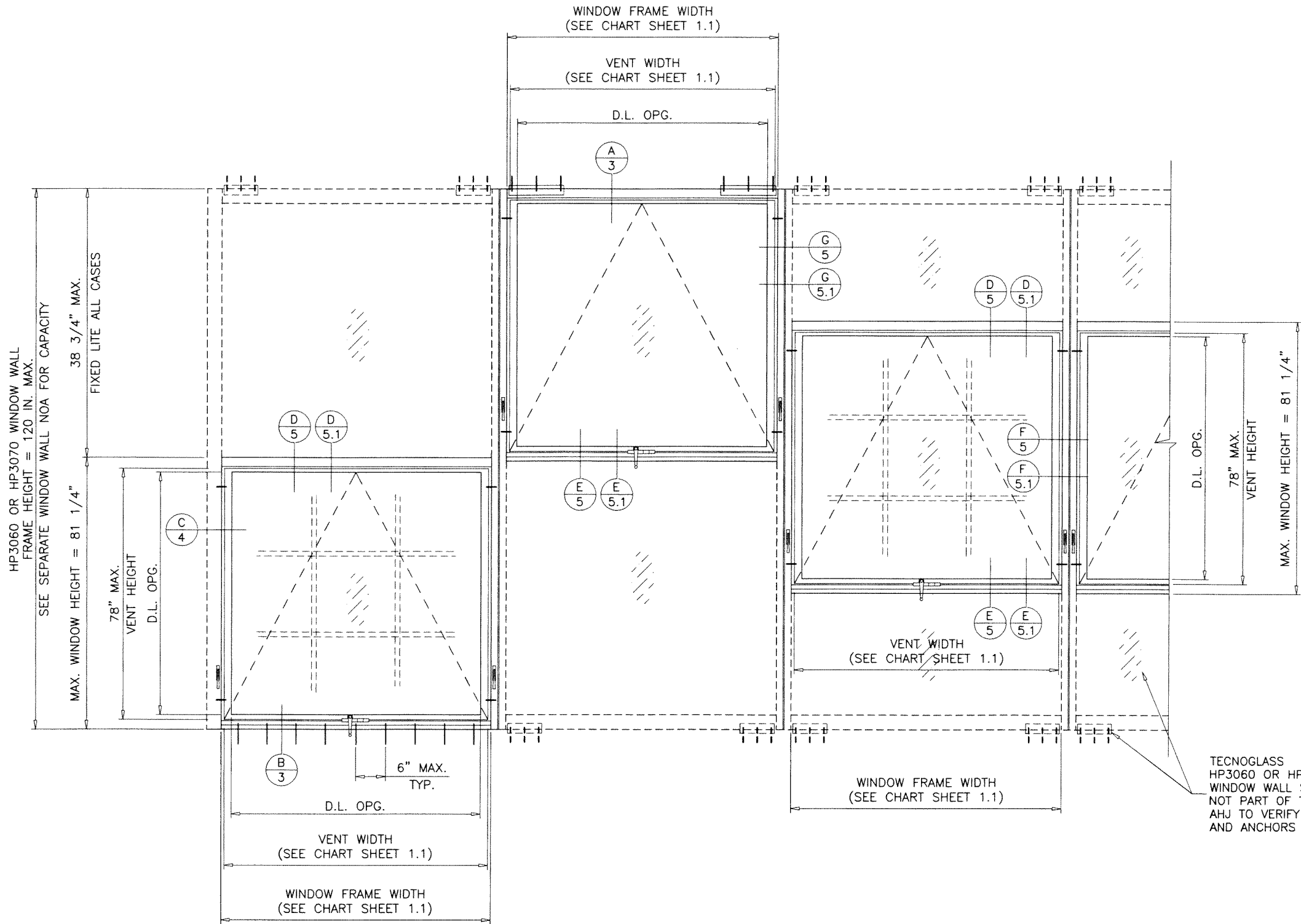
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G	02.08.16		GENERAL REVISION
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J	11.20.20		UPDATED TO 2020 FBC
K	09.20.23		NO CHANGE THIS SHEET

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date: 11-26-04  
 scale: 1/2"=1'-0"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W04-99**  
 sheet **2** of **7**



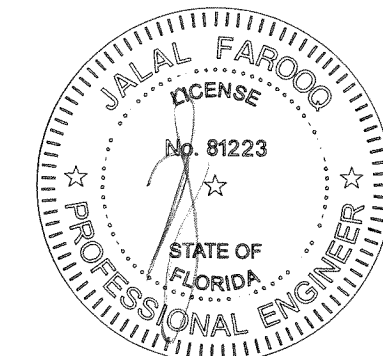


TECNOGLASS  
HP3060 OR HP3070  
WINDOW WALL SYSTEMS  
NOT PART OF THIS NOA  
AHJ TO VERIFY TRIBUTARY LOAD  
AND ANCHORS

#### APPROVED CONFIGURATIONS

SEE SEPARATE TECNOGLASS NOA FOR HP3060 & HP3070 WINDOW WALL SYSTEMS  
MULLION, GLASS AND ANCHOR CAPACITIES.  
LOWER DESIGN PRESSURES FROM WINDOW CAPACITY, HP3060 WINDOW WALL OR  
HP3070 WINDOW WALL NOA WILL APPLY TO ENTIRE SYSTEM.  
TO BE REVIEWED BY AUTHORITY HAVING JURISDICTION.

SEP 22 2023



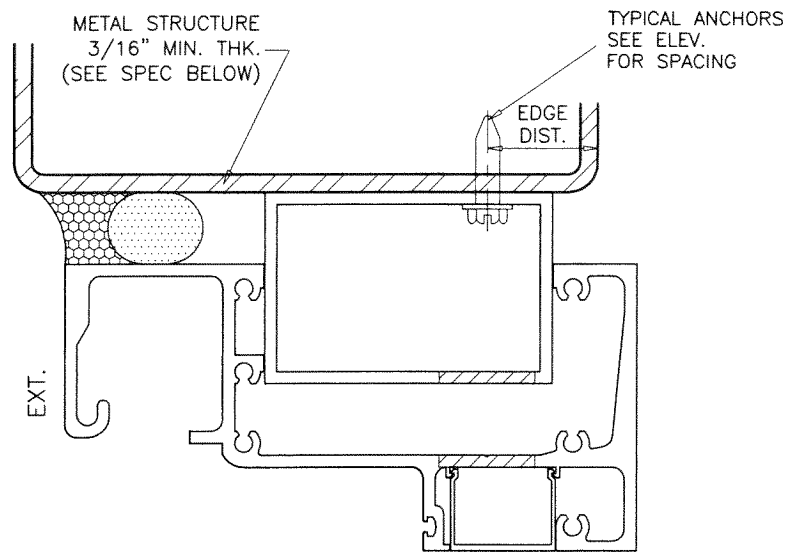
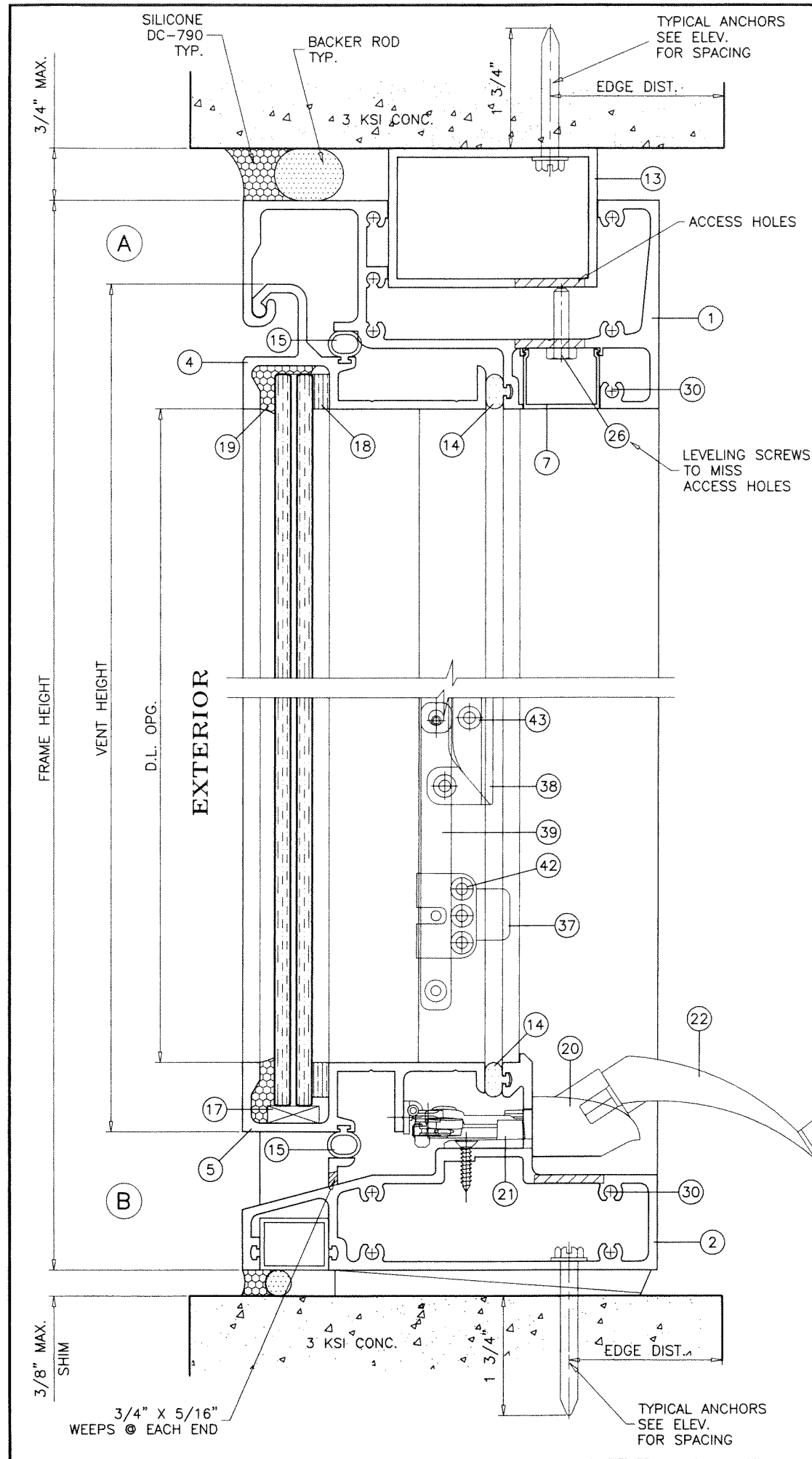
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NOA-No. **23-0928.06**  
Expiration Date: **10/04/2024**  
By: *Manuel Fern*  
Miami-Dade Product Control

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE\W04-99RC

HP3060/3070 ALUM. PROJECT-OUT WINDOW (L.M.I.)  
**TECNOGLASS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:  
drawing no.  
**W04-99**  
sheet **2.1** of **7**



METAL STRUCTURE NOT BY 'TECNOGLASS'  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**5/16" DIA. ULTRACON BY 'DEWALT'** ( $F_u=177$  KSI,  $F_y=155$  KSI)

DIRECTLY INTO CONCRETE

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

**5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)

INTO METAL STRUCTURES (HEAD)

STEEL : 3/16" THK. MIN. ( $F_y = 36$  KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS

ALUMINUM : 3/16" THK. MIN. (6063-T5 MIN.) (NO SHIM SPACE)

**TYPICAL EDGE DISTANCE**

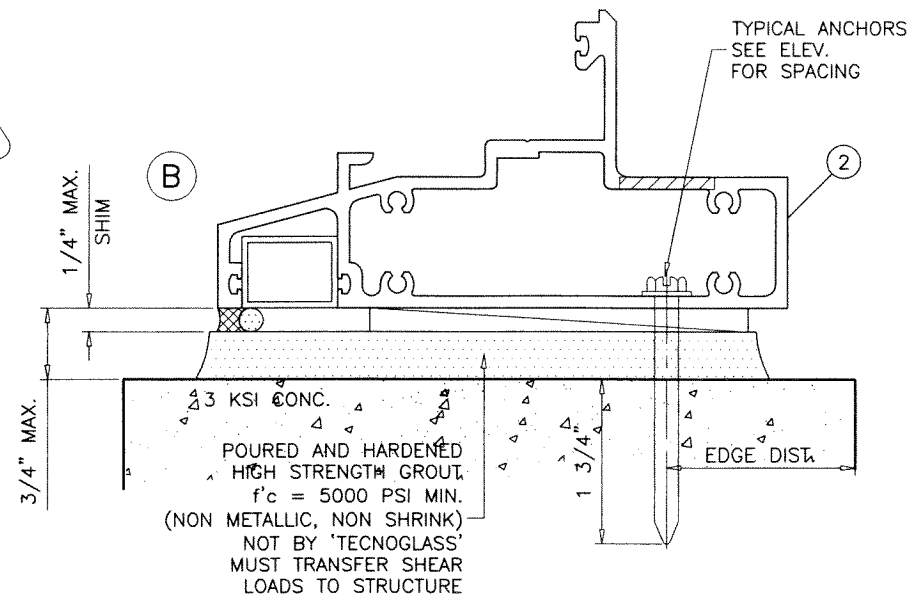
INTO CONCRETE AND MASONRY = 2-1/2" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD OR SILL  $f'_c = 3000$  PSI MIN.

**SEALANTS:**

ALL FRAME CORNERS AND MULLION SEAMS SEALED  
WITH SILICONE.

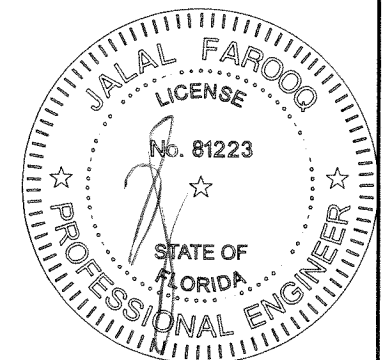


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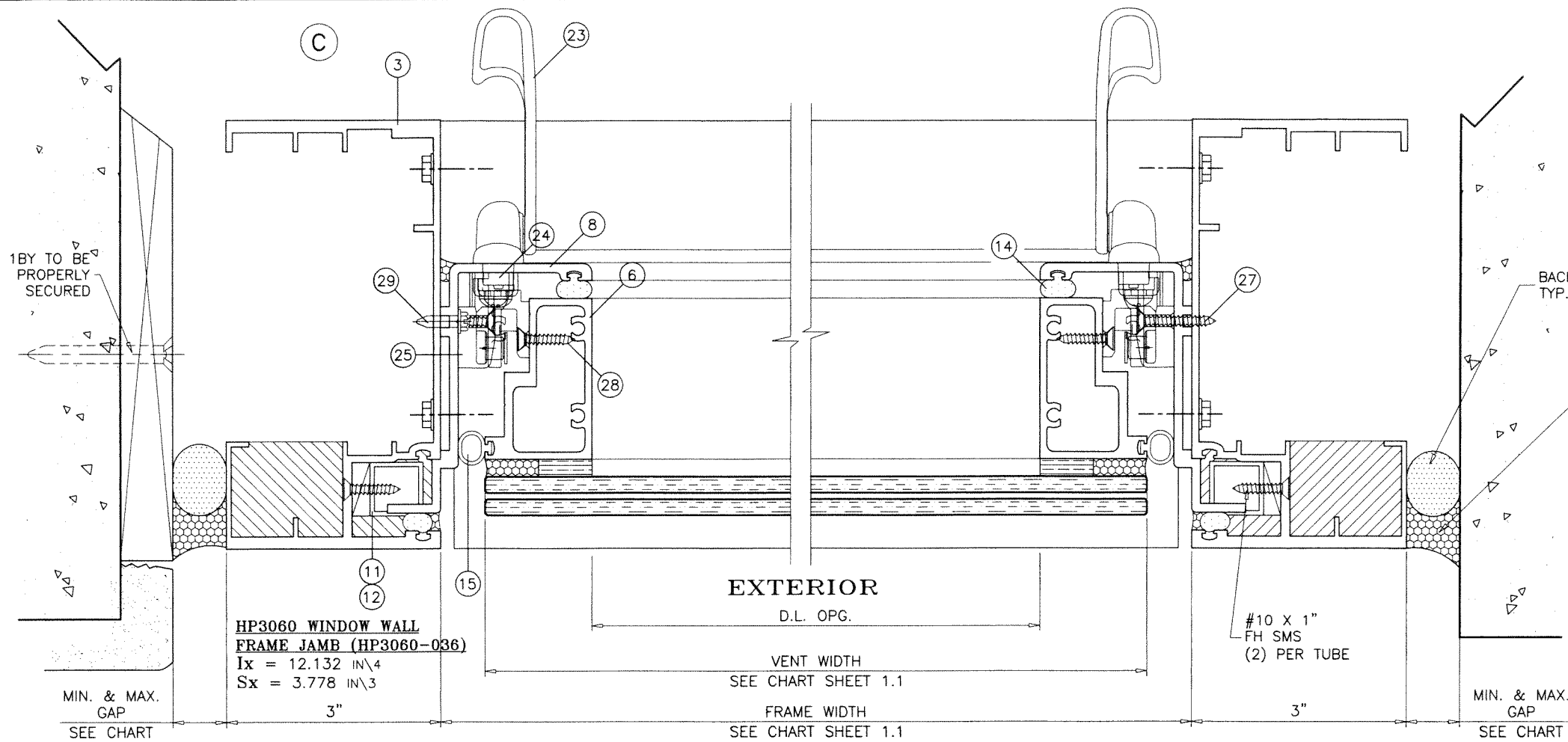


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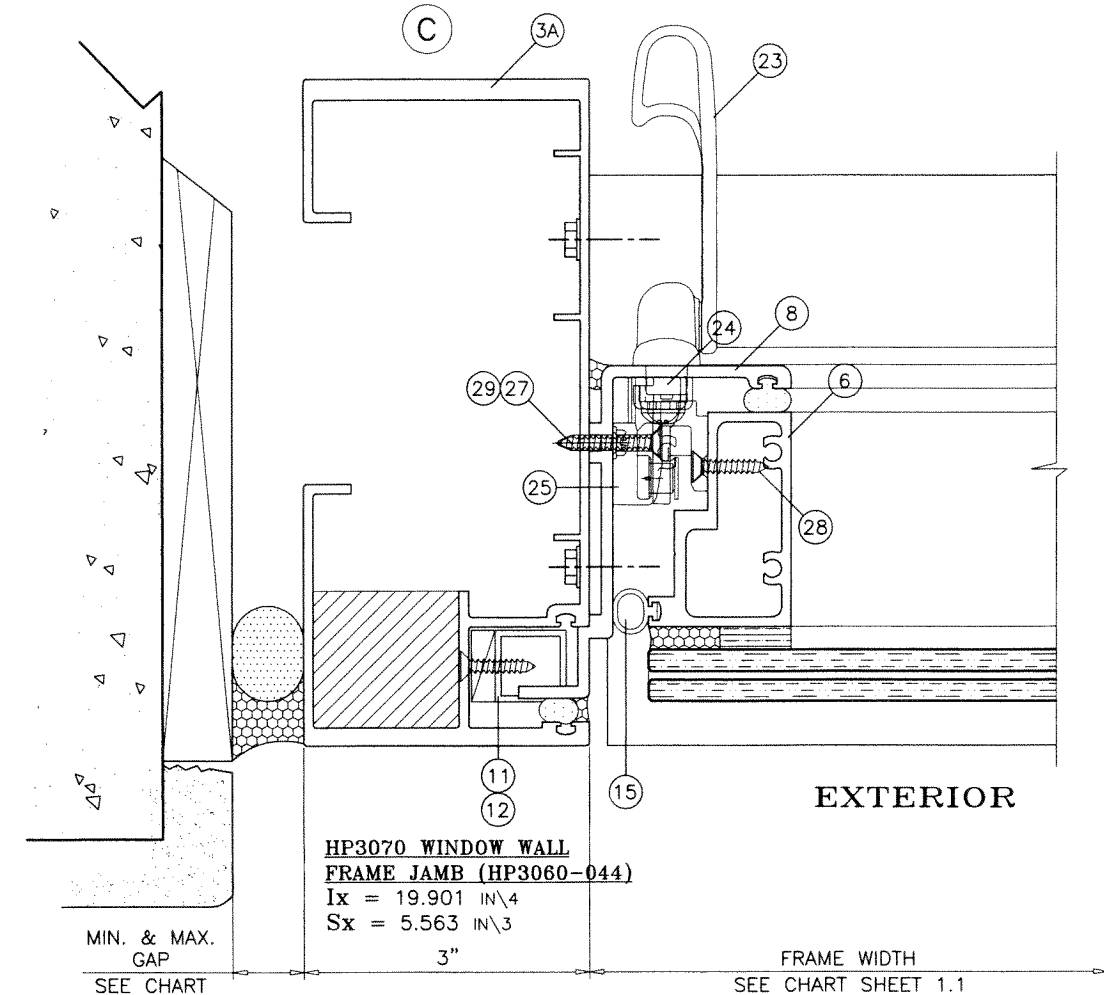
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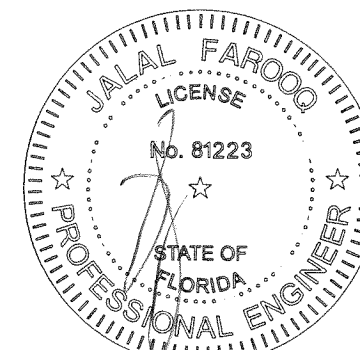
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	dr. by: TARIQ	I	06.07.18	REV. PER	REVISIONS
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		K	09.20.23	NO CHANGE	THIS SHEET
drawing no.		W04-99			
sheet		3 of 7			



MAX. UNIT FRAME HEIGHT	GAP	
	MIN.	MAX.
UPTO 120"	3/8"	1/2"



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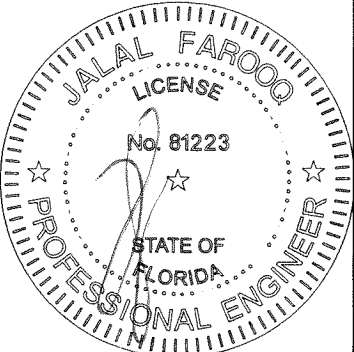
drawing no. **W04-99**

sheet 4 of 7




ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	HP3060-049	1	FRAME HEAD	6063-T6	-
2	HP3060-050	1	FRAME SILL/ INTERMEDIATE SILL	6063-T6	-
3	HP3060-036	2	WINDOW JAMB (HP3060 WONDOW WALL)	6063-T6	-
3A	HP3060-044	2	WINDOW JAMB (HP3070 WINDOW WALL)	6063-T6	-
4	HP3060-053	1	VENT HEAD	6063-T6	-
5	HP3060-054	1	VENT SILL	6063-T6	-
6	HP3060-069	2	VENT JAMB	6063-T6	-
7	HP3060-055	1	SNAP COVER HEAD	6063-T6	-
8	HP3060-056	2	VENT JAMB ADAPTER	6063-T6	-
9	HP3060-063	1	INTERMEDIATE HEAD	6063-T6	-
11	-	-	ALUM TUBE SHIM	-	3/4 X 3/4 X 1/16" X 2-1/4" LONG
12	-	-	ALUM TUBE SHIM	-	3/4 X 3/4 X 1/16" X 2-7/8" LONG
13	-	-	ALUM TUBE	6063-T6	2 X 3 X 1/8" X 12" LONG
14	V-045	AS REQD.	FOAM FILLED BULB W'STRIPPING	NEOPRENE	DUROMETER 50±5 SHORE A
15	V-046	AS REQD.	BULB W'STRIPPING	VINYL	-
17	-	AS REQD.	SETTING BLOCKS AT 6" FROM ENDS	EPDM	1/4 X 3/4 X 4" LONG, DUROMETER 80±5 SHORE A
18	V2100	AS REQD.	GLAZING TAPE	FOAM	1/4 X 1/2" SINGLE FACE, NORTON THERMALBOND
19	DOWSIL 995	AS REQD.	GLAZING COMPOUND	SILICONE	-
20	OP05-7540	1	AWNING OPERATOR	-	-
21	OP05-8021	1	OPERATOR SURFACE MOUNT BRACKET	-	-
22	OP05-7800	1	CRANK HANDLE	-	-
23	LU08-7510	2	2 POINT CAM LOCKING HANDLE	-	-
24	G2-HNDPLT-02	-	LOCKING HANDLE PLATE	-	-
25	GT-555	-	GUIDE HOUSING	-	-
26	-	AS REQD.	LEVELING SCREWS	-	1/4-20 X 3/4" HH MS
27	#8 X 1-1/4"	-	F.H. SMS	ST. STEEL	AT 6" FROM EACH END
28	#8 X 3/4"	-	F.H. SMS	ST. STEEL	-
29	#10 X 3/4"	2/ JAMB	JAMB ADAPTER SCREWS	ST. STEEL	HEX H. SMS, AT 6" FROM EACH END
30	#12 X 1-1/4"	-	FRAME/VENT ASSEMBLY SCREWS	ST. STEEL	HEX H. SMS
44	HP3060-041	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
45	HP3060-042	AS REQD.	HP3070 FEMALE MULLION	6063-T6	-
46	HP3060-043	AS REQD.	HP3070 MALE MULLION	6063-T6	-
47	HP3060-037	AS REQD.	HP3060 FEMALE MULLION	6063-T6	-
48	HP3060-038	AS REQD.	HP3060 MALE MULLION	6063-T6	-

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**Miami-Dade Product Control**



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(C.A.N. 3538)

HP3060/3070 ALUM. PROJECT-OUT WINDOW (L.M.I.)

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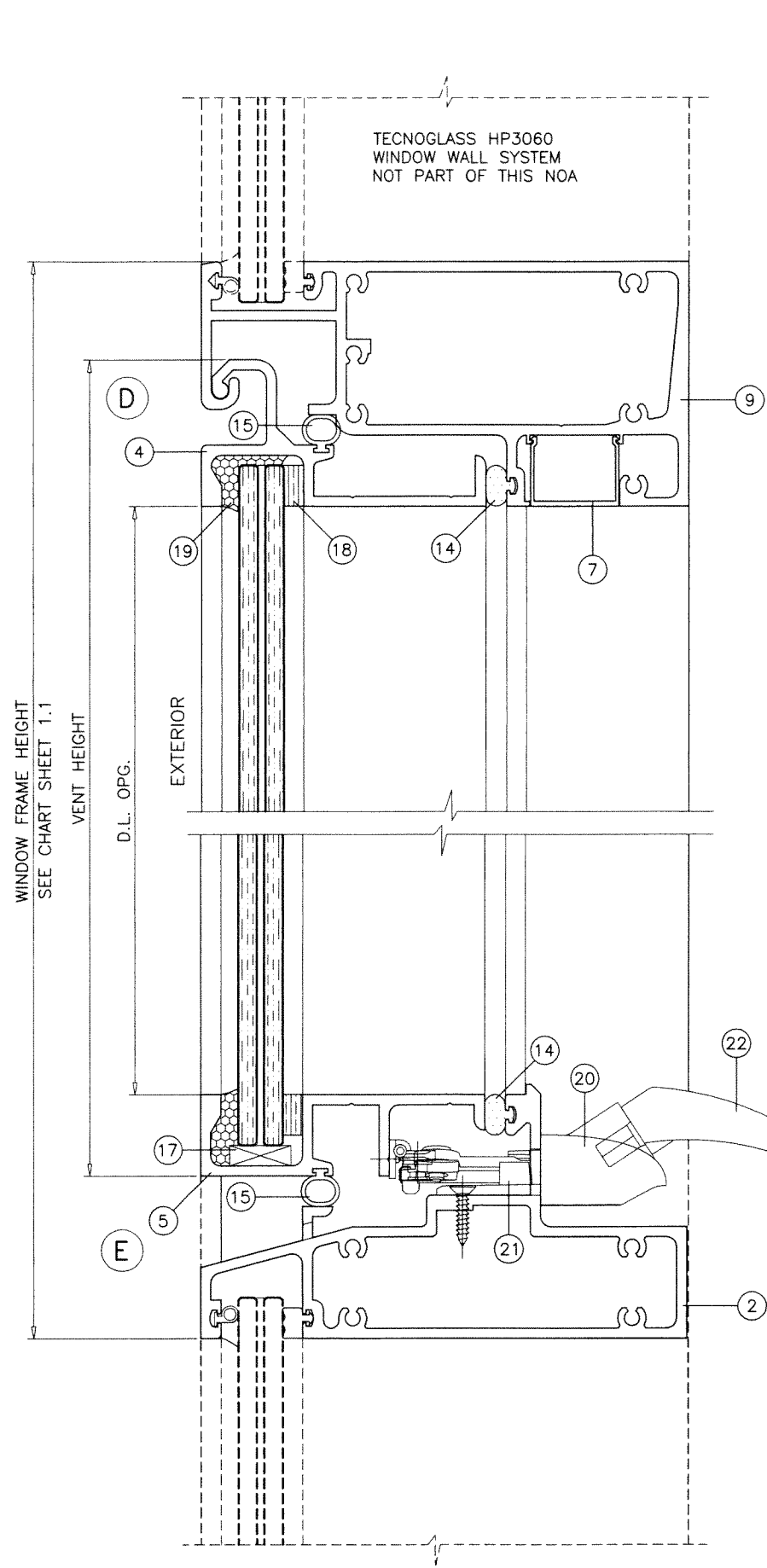
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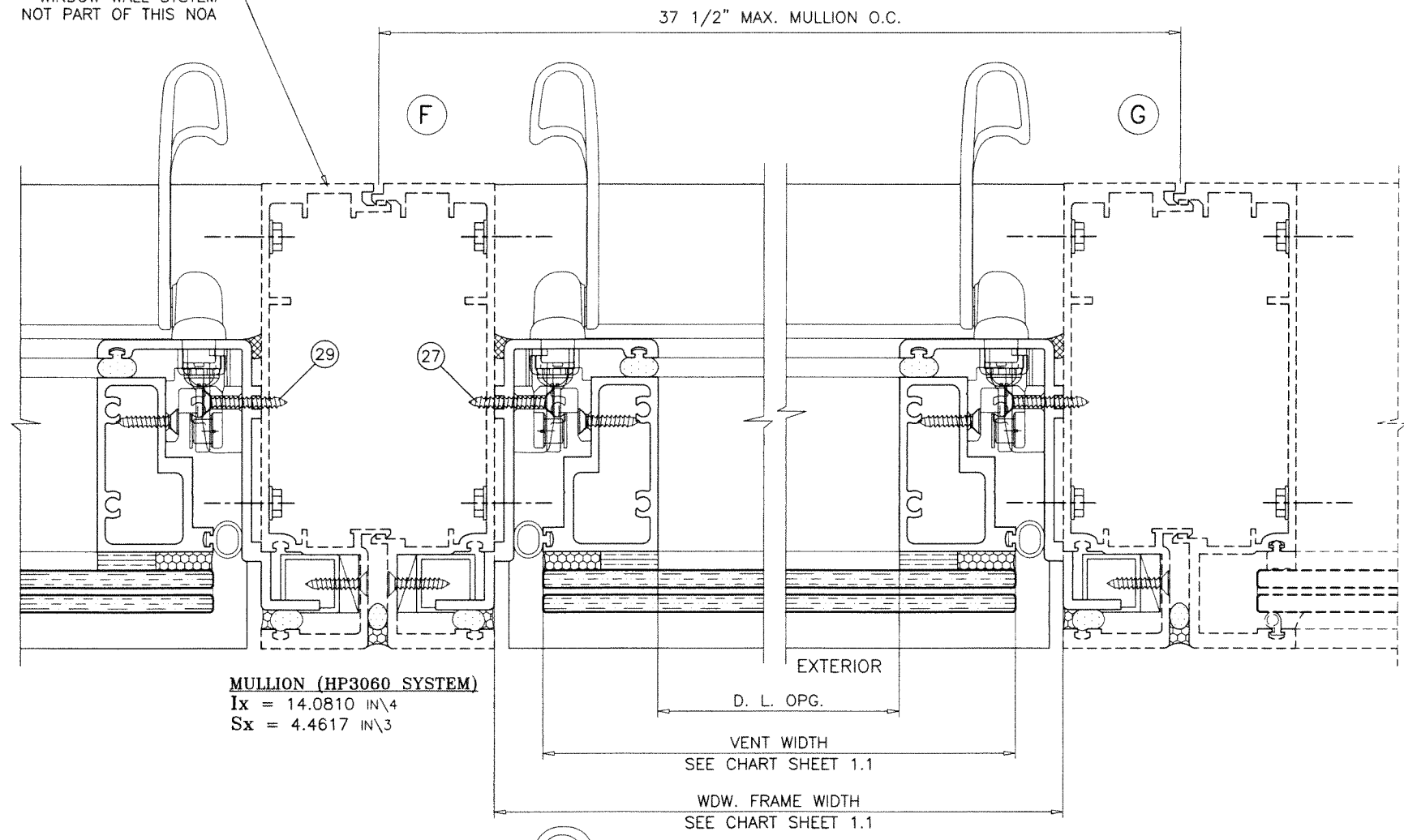
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INSTALLATION DETAILS WITHIN HP3060 WINDOW WALL SYSTEM



TECNOGLASS HP3060  
WINDOW WALL SYSTEM  
NOT PART OF THIS NOA



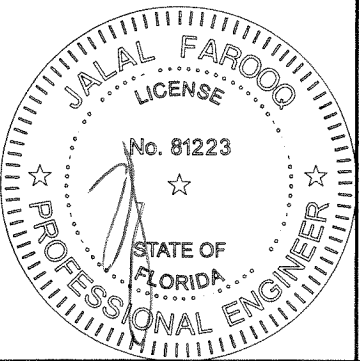
**MULLION (HP3060 SYSTEM)**  
 $I_x = 14.0810 \text{ IN}^4$   
 $S_x = 4.4617 \text{ IN}^3$

TECNOGLASS HP3060  
WINDOW WALL SYSTEM  
NOT PART OF THIS NOA

**HP3060 WINDOW WALL  
FRAME JAMB (HP3060-036)**  
 $I_x = 12.132 \text{ IN}^4$   
 $S_x = 3.778 \text{ IN}^3$

SEE SEPARATE NOA FOR HP3060 WINDOW WALL SYSTEM  
MULLION, GLASS AND ANCHOR CAPACITIES.  
LOWER DESIGN PRESSURES FROM WINDOW CAPACITY CHART  
ON SHEET 1.1 OR WINDOW WALL NOA WILL APPLY TO  
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Miami-Dade Product Control



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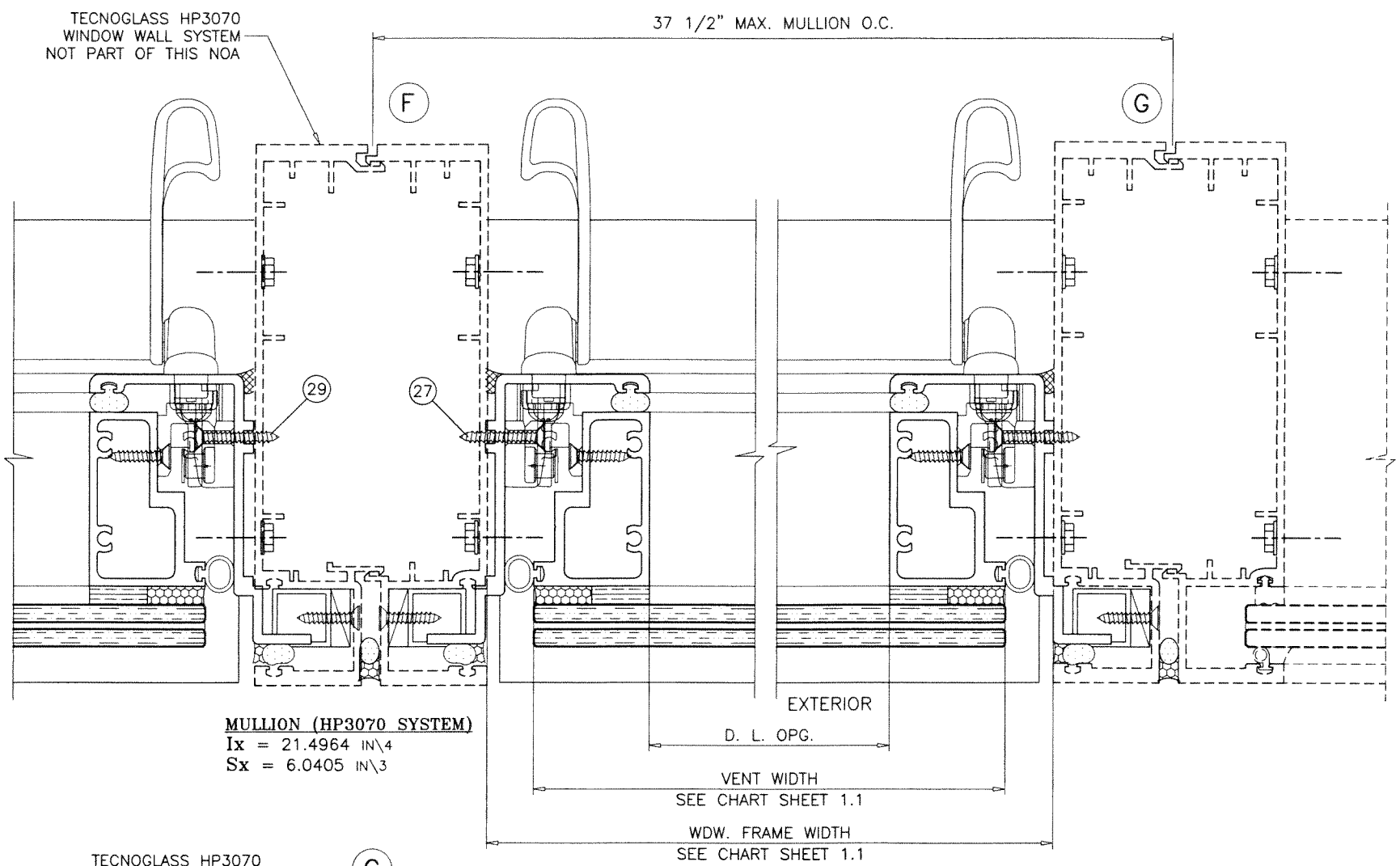
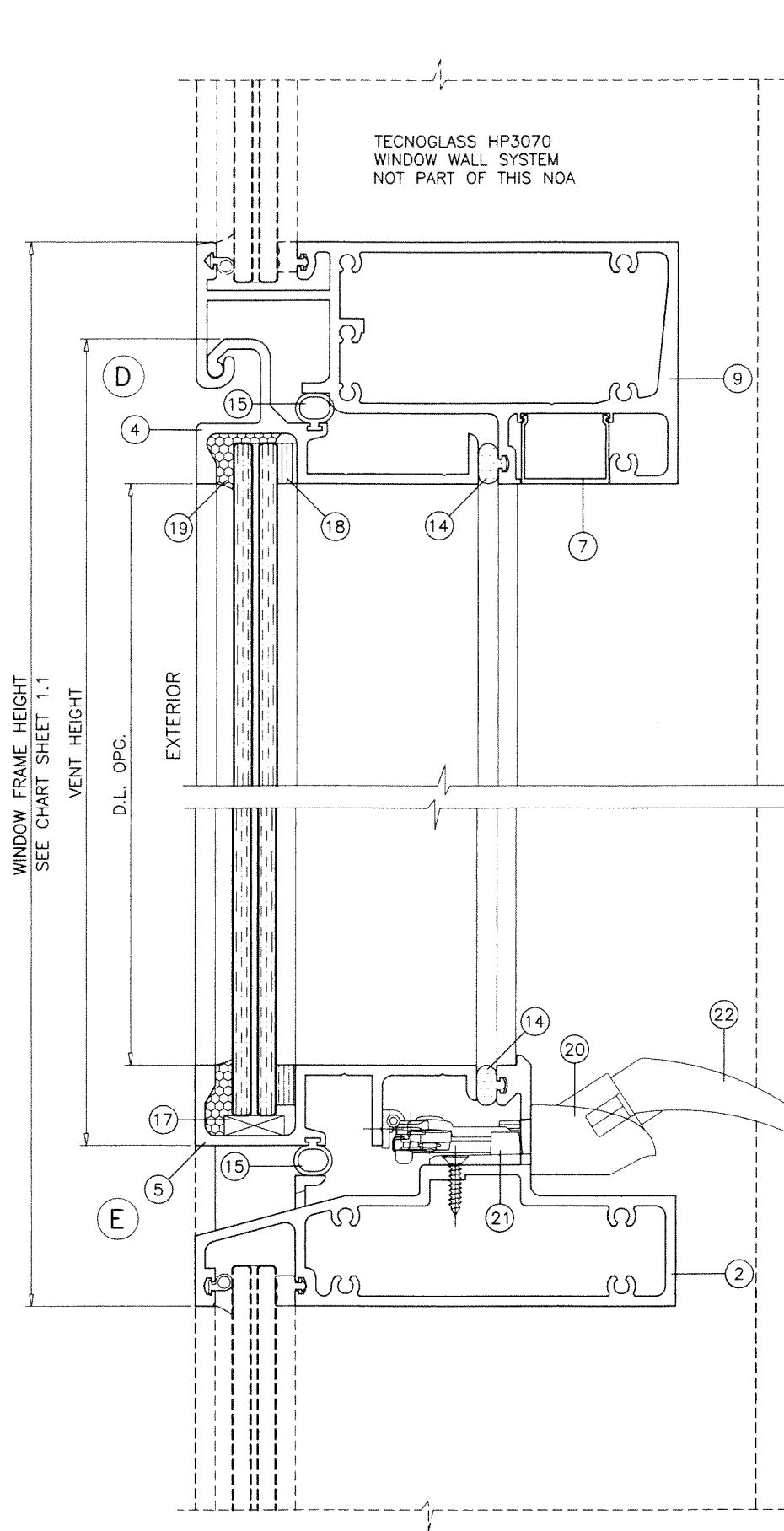
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**W04-99**

sheet 5 of 7

HP3060/3070 ALUM. PROJECT-OUT WINDOW (L.M.I.)

STORE W04-99RC

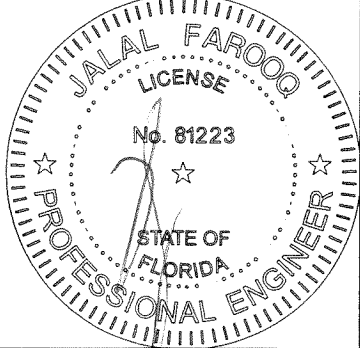
INSTALLATION DETAILS WITHIN HP3070 WINDOW WALL SYSTEM



HP3070 WINDOW WALL  
FRAME JAMB (HP3080-044)  
Ix = 19.901 IN<sup>4</sup>  
Sx = 5.563 IN<sup>3</sup>

SEE SEPARATE NOA FOR HP3070 WINDOW WALL SYSTEM  
MULLION, GLASS AND ANCHOR CAPACITIES.  
LOWER DESIGN PRESSURES FROM WINDOW CAPACITY CHART  
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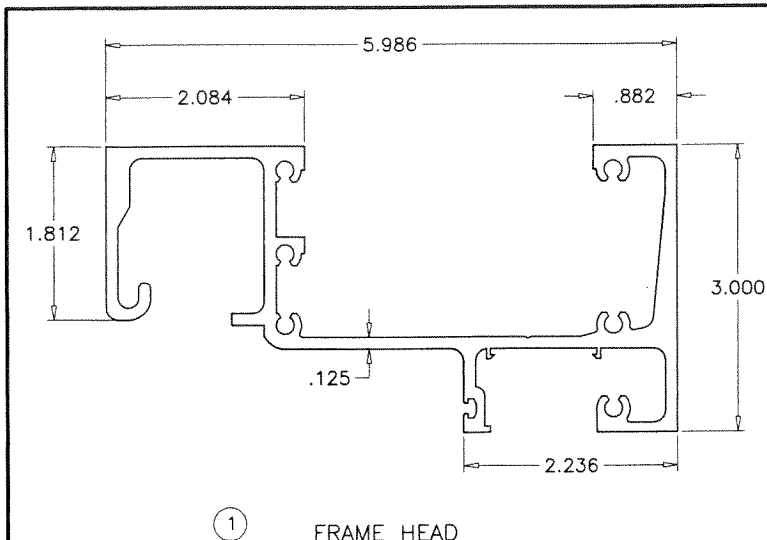
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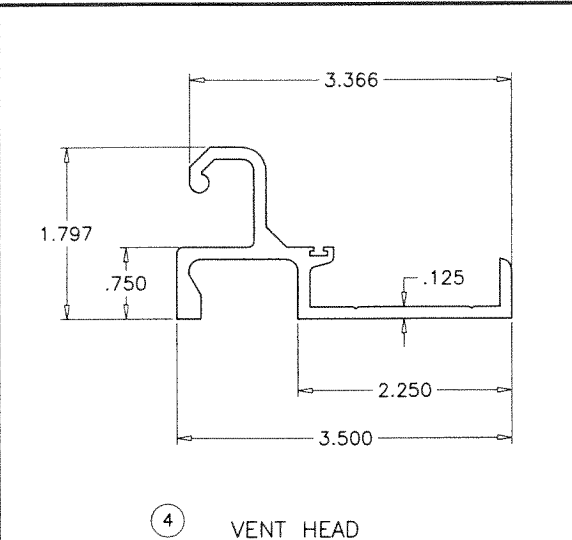
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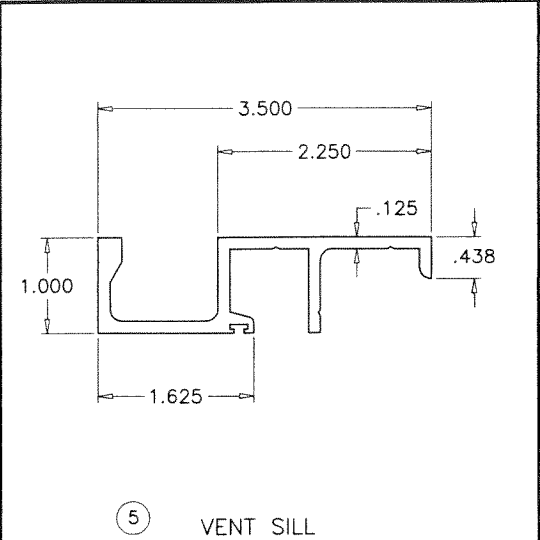




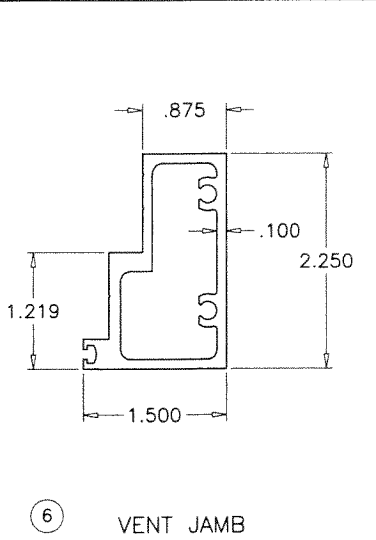
① FRAME HEAD



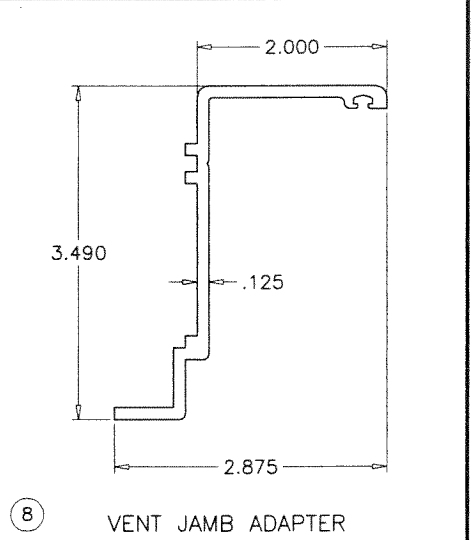
④ VENT HEAD



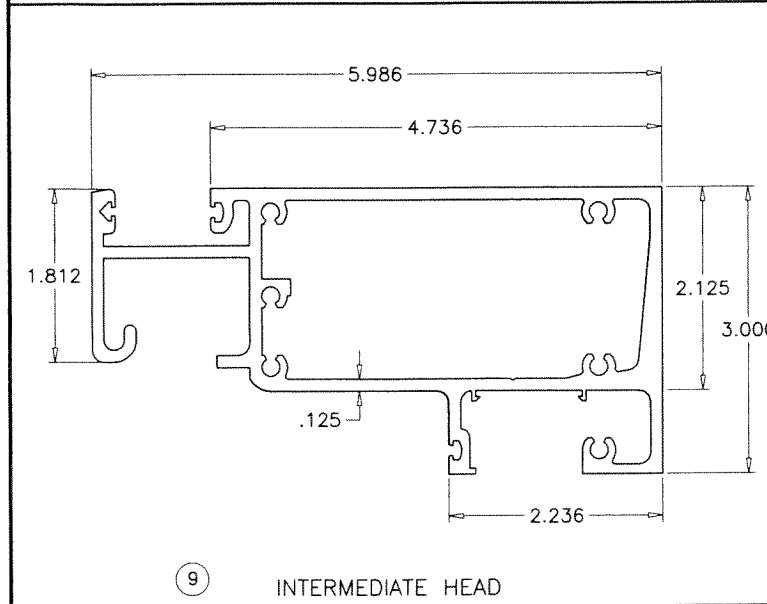
⑤ VENT SILL



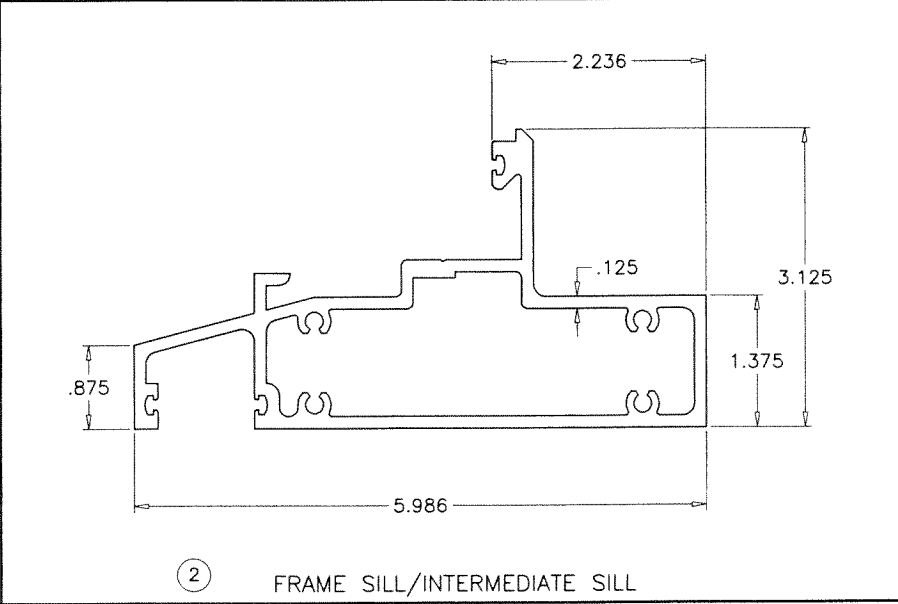
⑥ VENT JAMB



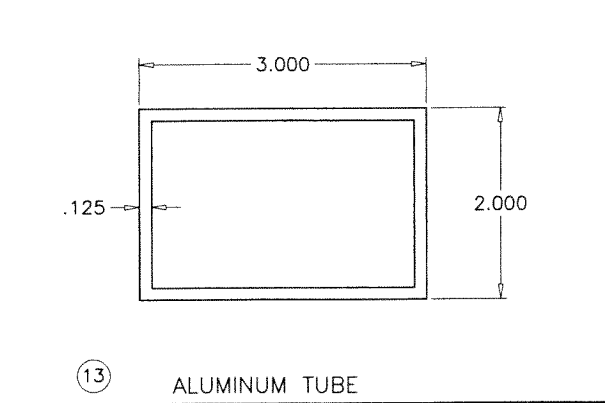
⑧ VENT JAMB ADAPTER



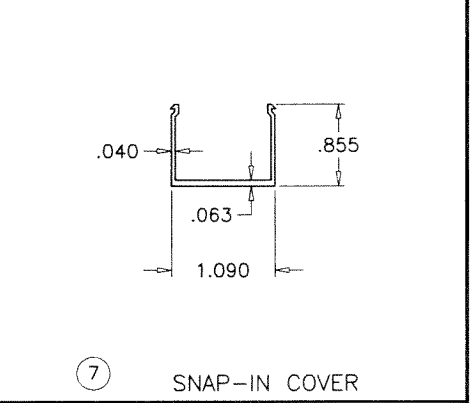
⑨ INTERMEDIATE HEAD



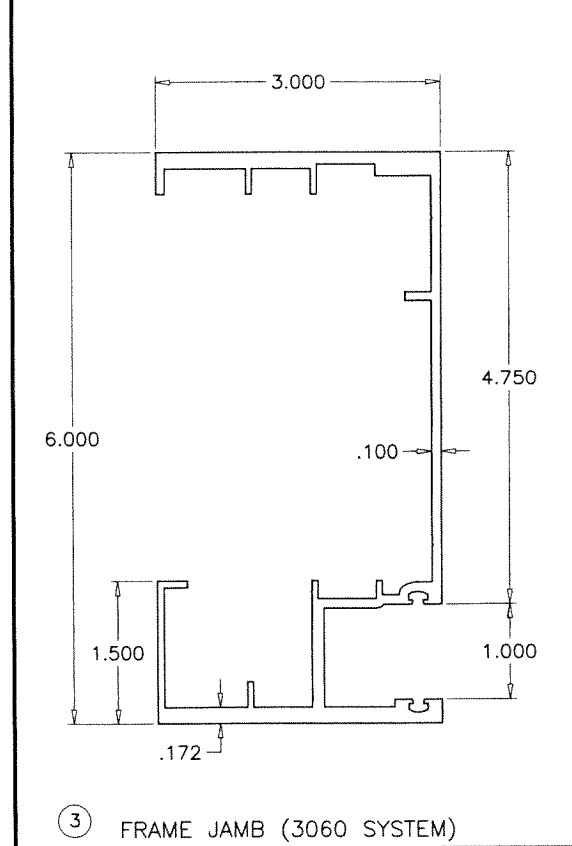
② FRAME SILL/INTERMEDIATE SILL



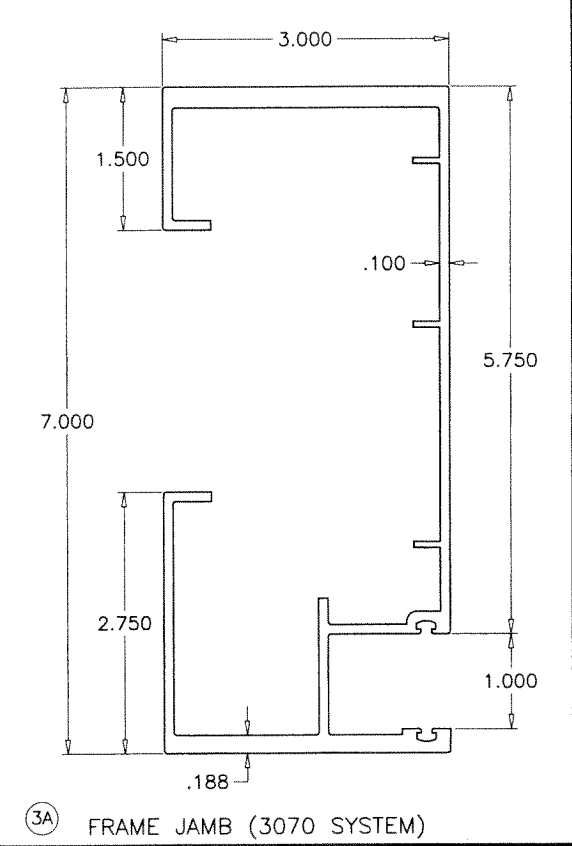
⑬ ALUMINUM TUBE



⑦ SNAP-IN COVER

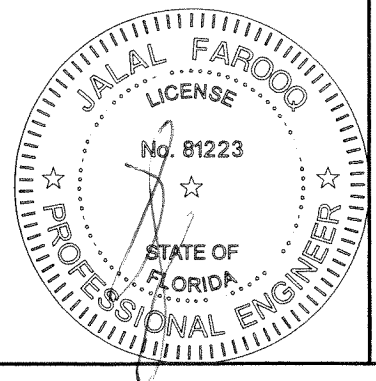


③ FRAME JAMB (3060 SYSTEM)



③A FRAME JAMB (3070 SYSTEM)

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HP3060/3070 ALUM. PROJECT-OUT WINDOW (L.M.I.)

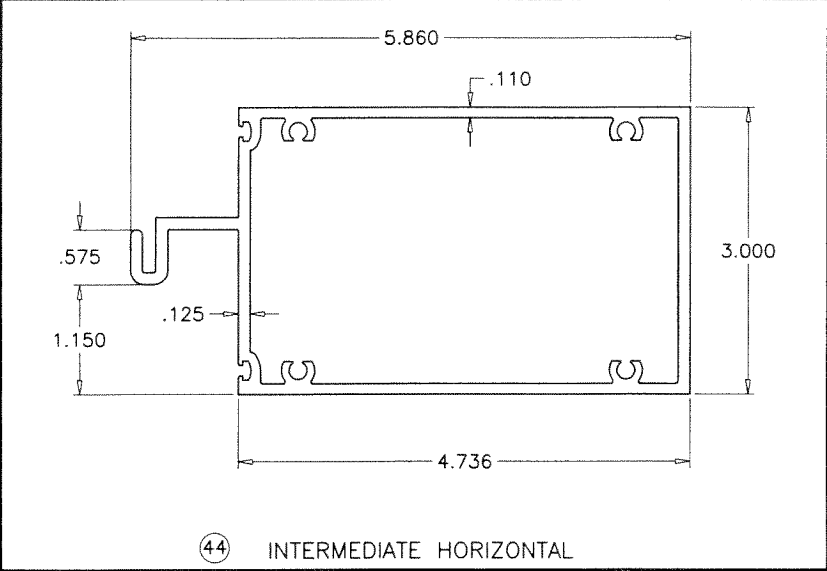
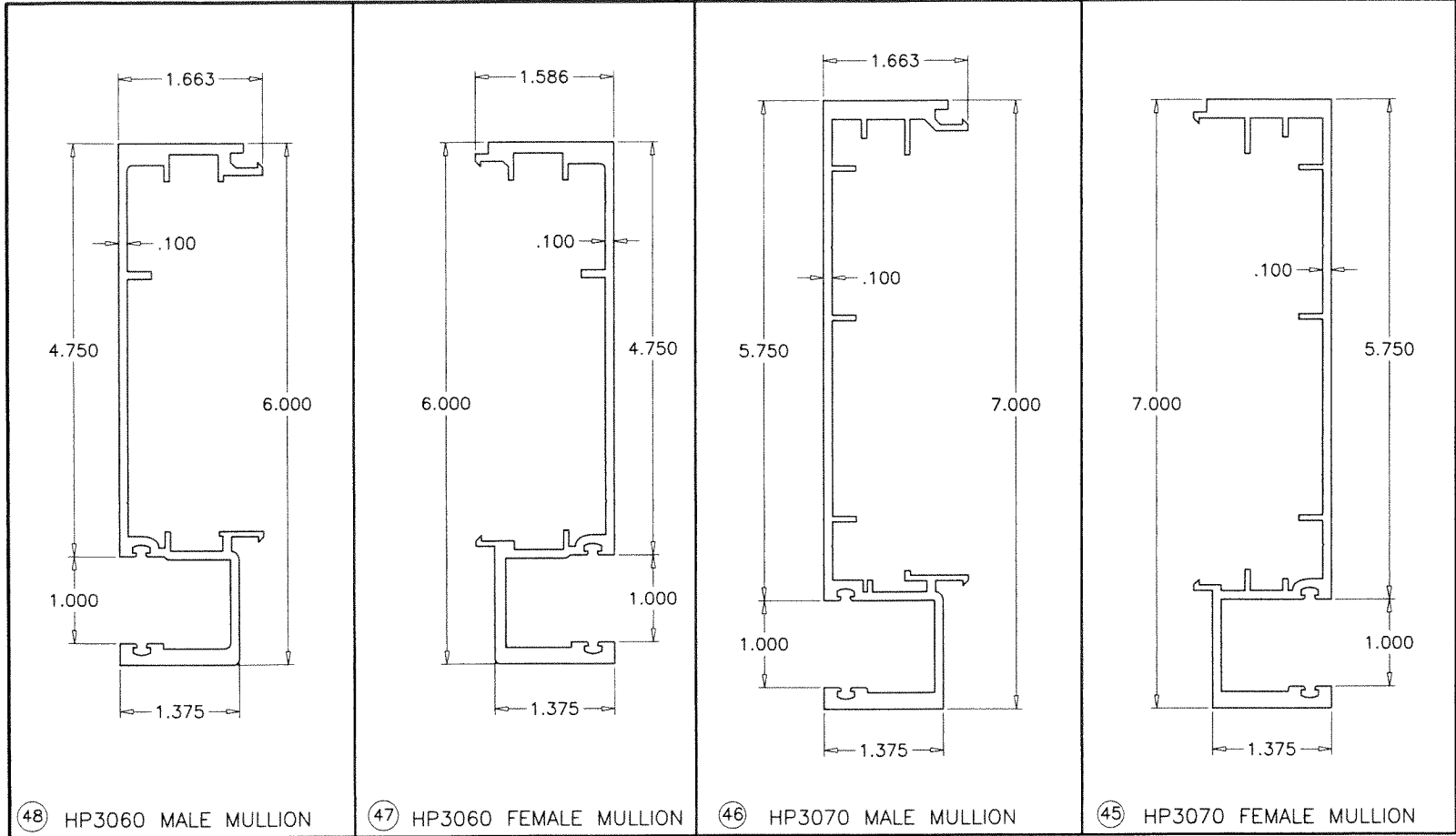
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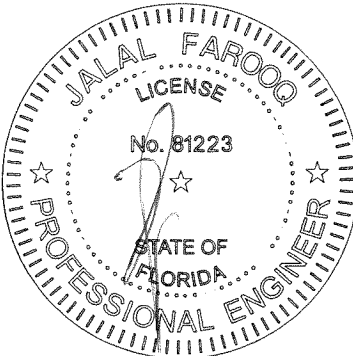
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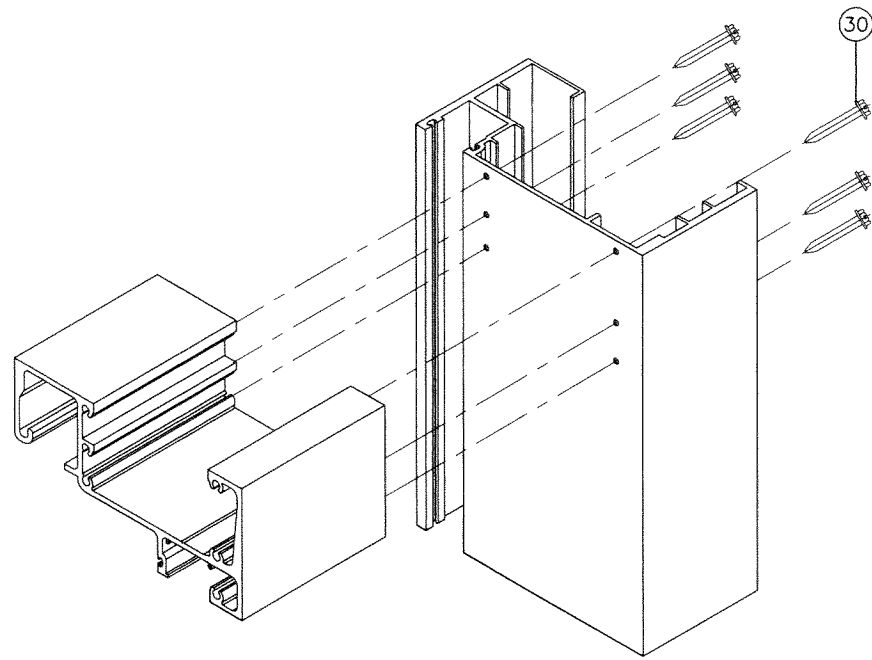
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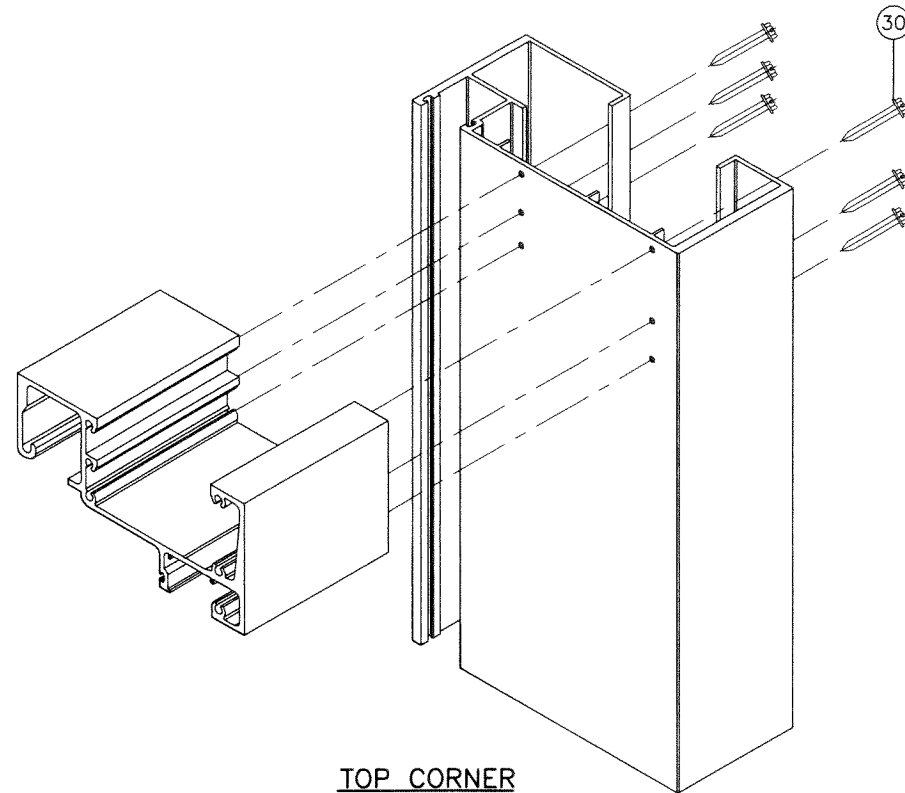
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 sheet 6.1 of 7

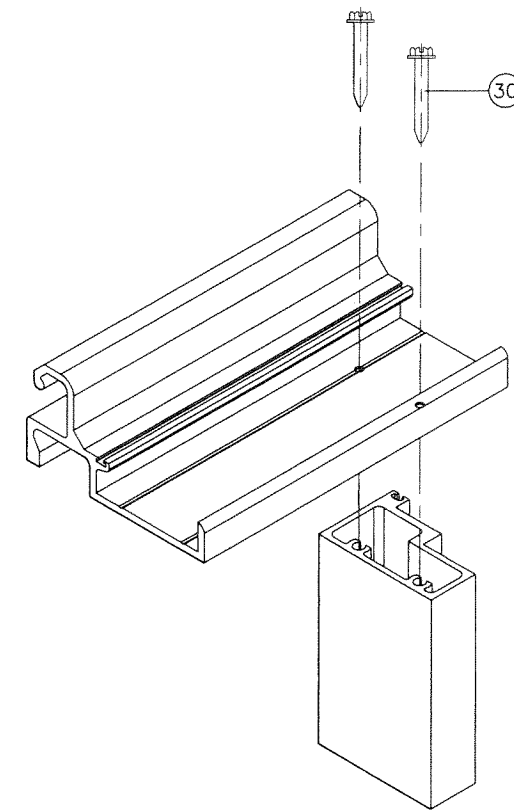




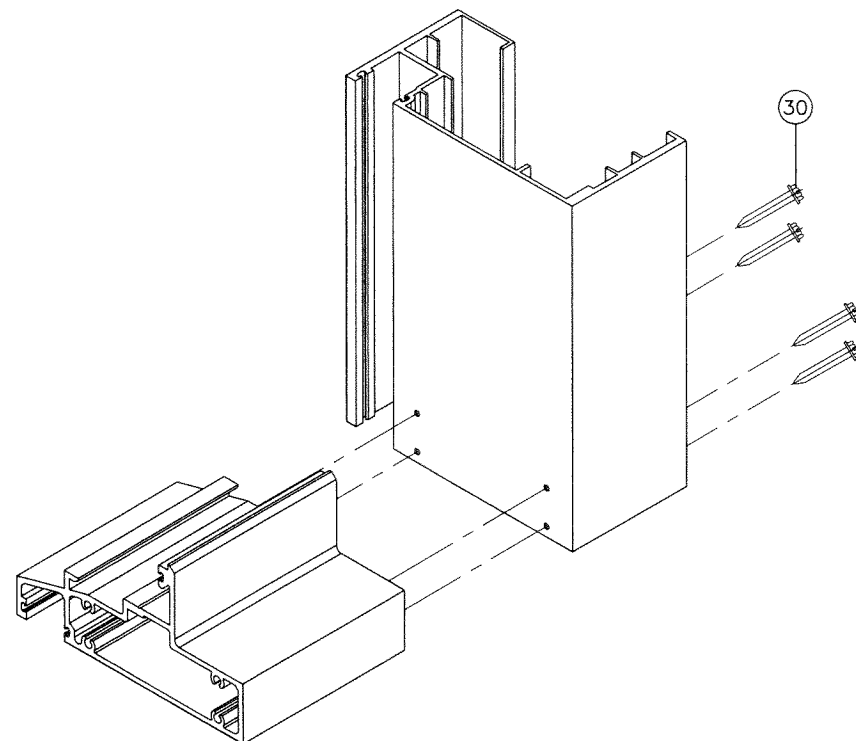
TOP CORNER  
HP3060 WINDOW WALL SYSTEM



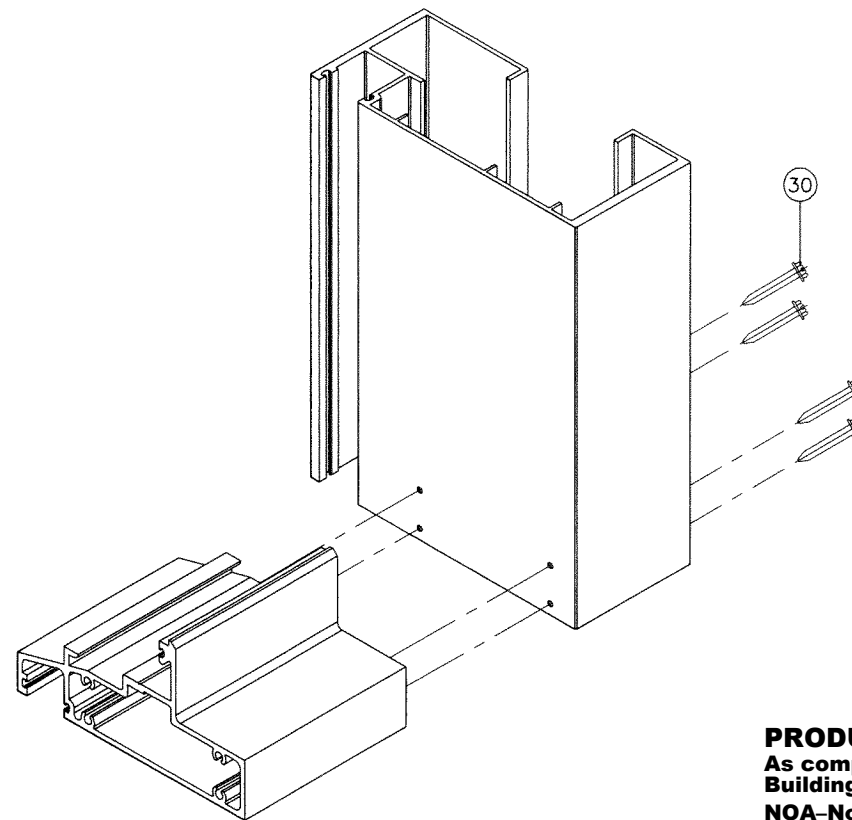
TOP CORNER  
HP3070 WINDOW WALL SYSTEM



VENT CORNER



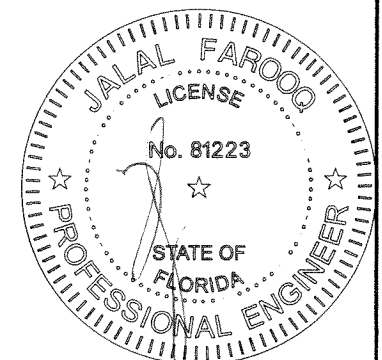
BOTTOM CORNER  
HP3060 WINDOW WALL SYSTEM



BOTTOM CORNER  
HP3070 WINDOW WALL SYSTEM

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. 23-0928.06  
Expiration Date: 10/04/2024  
By: Manuel Perez  
Miami-Dade Product Control

**SEP 22 2023**



**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  
STORE W04-99RC

HP3060/3070 ALUM. PROJECT-OUT WINDOW (L.M.I.)  
**TECNOGLASS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
G	02.08.16		GENERAL REVISION
H	07.18.16		REV. PER RER COMMENTS
I	06.07.18		REV. PER RER COMMENTS
J	11.20.20		UPDATED TO 2020 FBC
K	09.20.23		NO CHANGE THIS SHEET

date: 11-26-04  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W04-99**  
sheet 7 of 7