



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

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 – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W04-32**, titled "HP 3060/ 3070 Alum. Project-Out Window (S.M.I.)", sheets 1, 2, 3, 3.1, 4, 5, 5.1, 6, 6.1, 7, 7.1 and 8 of 8, dated 04/15/04, with revision **J** dated 11/20/20, 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: 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.

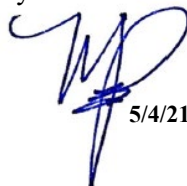
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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** NOA No. **16-0309.05** 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.**




5/4/21

NOA No. 21-0317.07
Expiration Date: **October 04, 2023**
Approval Date: **May 13, 2021**
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

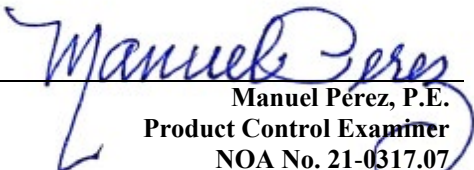
1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 05-0203.01)
2. Drawing No. **W04-32**, titled "HP 3060/ 3070 Alum. Project-Out Window (S.M.I.)", sheets 1, 2, 3, 3.1, 4, 5, 5.1, 6, 6.1, 7, 7.1 and 8 of 8, dated 04/15/04, with revision I dated 06/28/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 16-0309.05)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202--94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
7) Impact Test, per FBC, ANSI Z97.1-04/ 16 CFR 1201
along with marked-up drawings and installation diagram of an aluminum window wall system with project-out window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5739**, dated 01/20/09, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 09-0722.09)
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) Small 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 an aluminum window wall system with project-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. 05-0203.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 07/06/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 16-0309.05)
2. Glazing complies with **ASTM E 1300-09**


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0317.07
Expiration Date: October 04, 2023
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

D. QUALITY ASSURANCE


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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayer**" dated 12/28/17, expiring on 07/04/23.
2. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/18/18, expiring on 07/08/19.
3. Notice of Acceptance No. **17-0712.03** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 09/07/17, expiring on 12/11/18.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, with **FBC 6th Edition (2017)**, and of no financial interest, dated September 22, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 16-0309.05)
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. 16-0309.05)
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 (originally submitted under NOA No. **14-0807.15**).
(Submitted under NOA No. 16-0309.05)
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. **12-0410.29**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
(Submitted under NOA No. 16-0309.05)
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.
(Submitted under NOA No. 16-0309.05)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0317.07
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED


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

F. STATEMENTS (CONTINUED)

6. Laboratory compliance letter for Test Report No. **FTL-5739**, issued by Fenestration Testing Laboratory, Inc., dated 01/01/09, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 09-0722.09)
7. Laboratory compliance letter for Test Report No. **FTL-4313**, issued by Fenestration Testing Laboratory, Inc., dated 11/15/04, signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-0203.01)

G. OTHERS

1. Notice of Acceptance No. **12-0410.29**, issued to R.C. Aluminum Industries, Inc., for their Series "**HP-3060/3070**" Aluminum Project-Out Window – S.M.I.", approved on 07/05/12 and expiring on 04/28/15.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0317.07
Expiration Date: October 04, 2023
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W04-32**, titled “HP 3060/ 3070 Alum. Project-Out Window (S.M.I.)”, sheets 1, 2, 3, 3.1, 4, 5, 5.1, 6, 6.1, 7, 7.1 and 8 of 8, dated 04/15/04, with revision **J** dated 11/11/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 07/06/16 and updated on 02/12/21 to comply with **FBC 7th Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E 1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

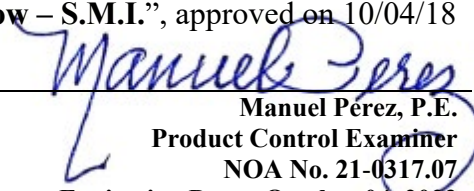
1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.
3. Notice of Acceptance No. **20-0622.03** issued to **Eastman Chemical Company (MA)** for their “**Saflex Storm - Saflex and Saflex HP Composite Glass Interlayers with PET Core**” dated 08/06/20, expiring on 12/11/23.

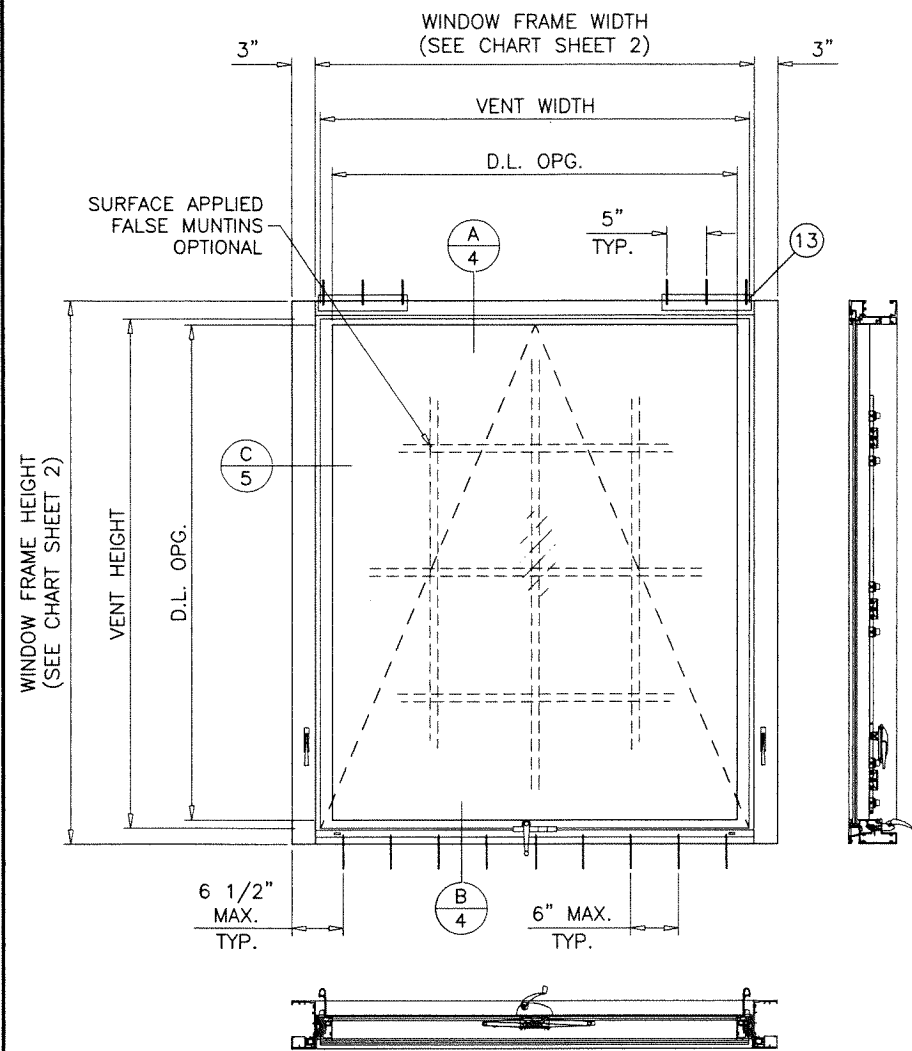
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, and of no financial interest, dated February 12, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **16-0309.05**, issued to Tecnoglass, LLC., for their Series “**HP-3060/3070**” **Aluminum Project-Out Window – S.M.I.**”, approved on 10/04/18 and expiring on 10/04/23.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0317.07
Expiration Date: October 04, 2023
Approval Date: May 13, 2021



'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 SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

HP3060/3070 ALUMINUM PROJECT-OUT WINDOW

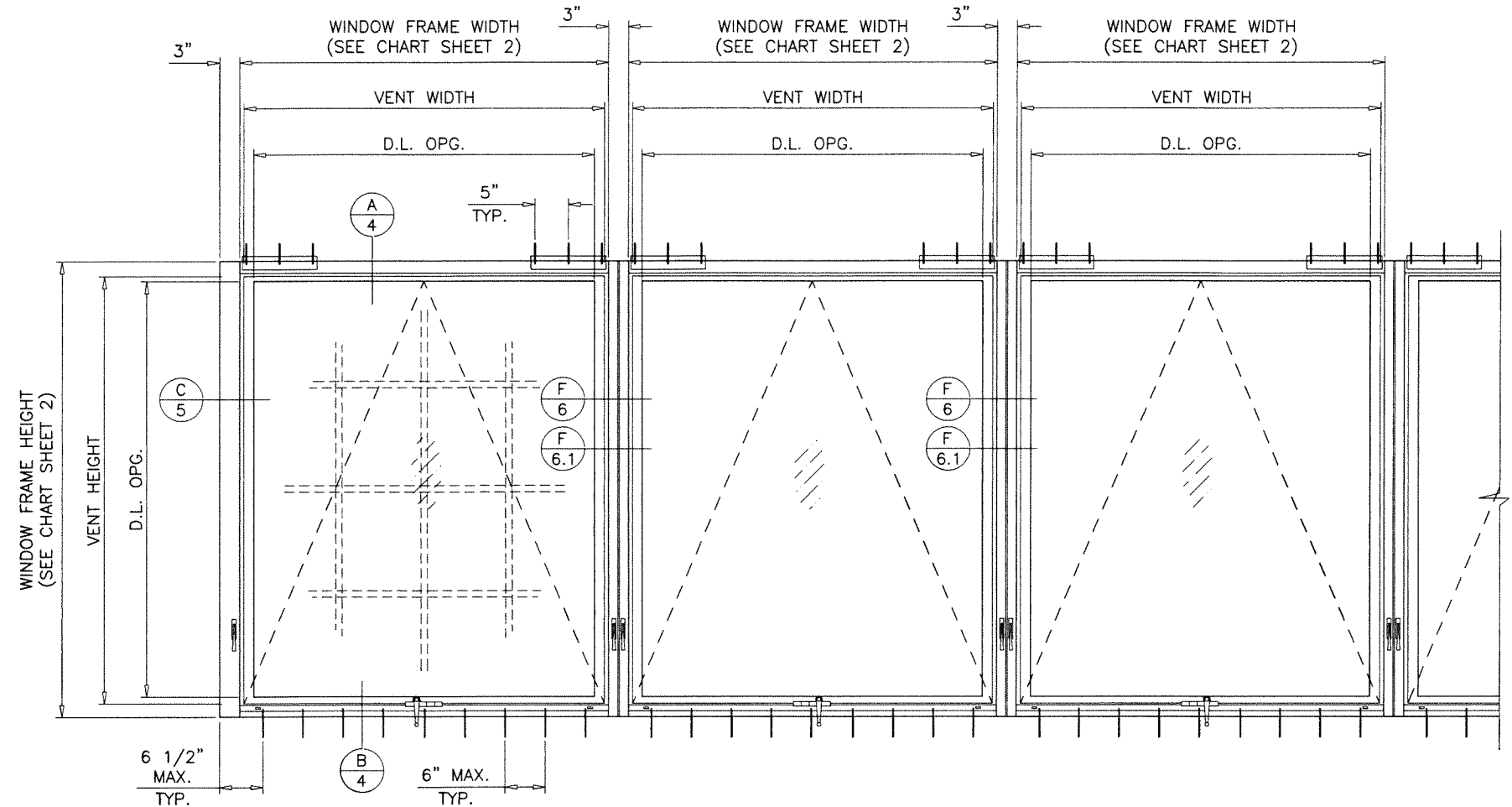
APPROVAL APPLIES TO SINGLE OR MULTIPLE UNITS USING HP3060-036
OR HP3060-044 FRAME JAMBS.

SEE CHART ON SHEET 2 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 6 AND
6.1 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) 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 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)'.

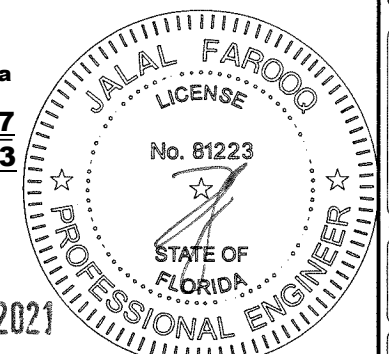
LAMINATED GLASS
SMALL MISSILE IMPACT

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. **21-0317.07**

Expiration Date: **10/04/2023**

By: *Manuel Perez*
Miami-Dade Product Control



MAR 11 2021

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 W04-32RC

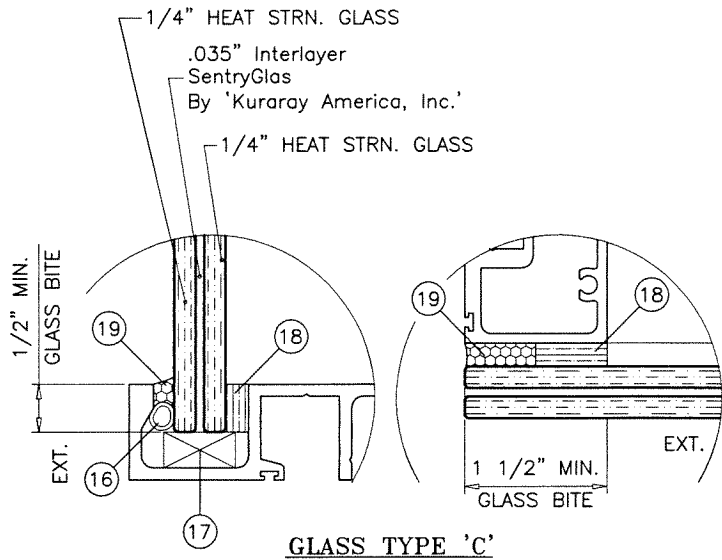
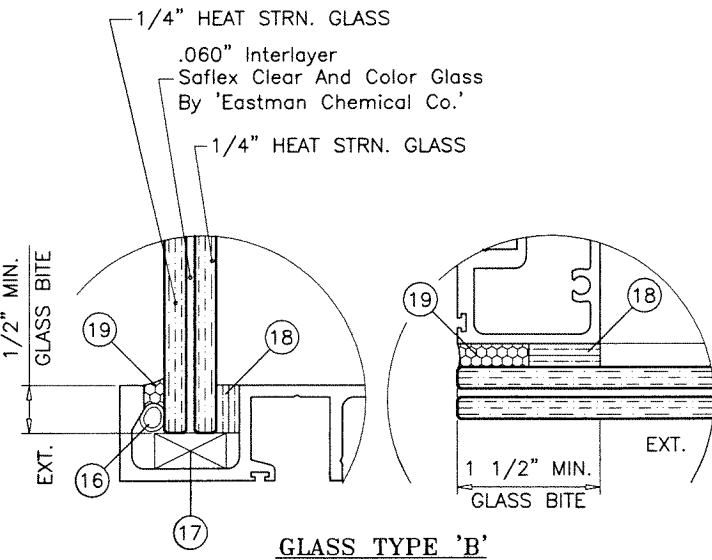
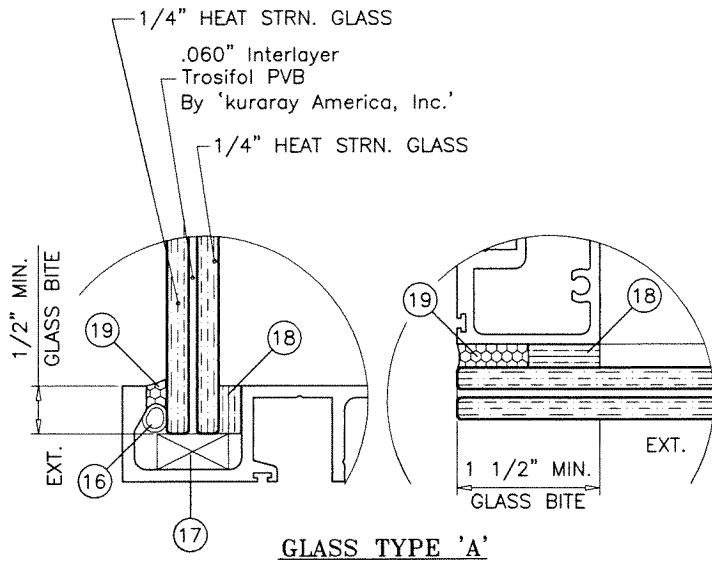
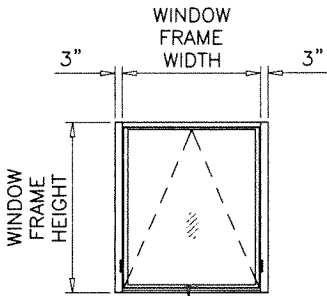
HP3060/3070 ALUM. PROJECT-OUT WINDOW (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
G	02.08.16		GENERAL REVISION
H	07.19.16		REV. PER RER COMMENTS
I	06.28.18		REV. PER RER COMMENTS
J	11.20.20		UPDATED TO 2020 FBC

date:	04-15-04
scale:	1/2"=1'-0"
dr. by:	TARIQ
chk. by:	

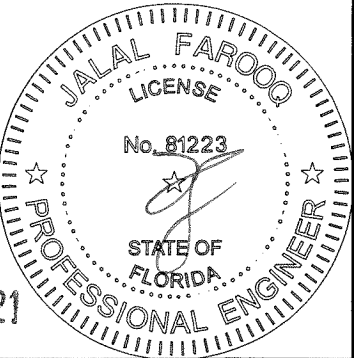
drawing no.	W04-32
sheet	1 of 8

DESIGN LOAD CAPACITY - PSF SINGLE VENT PROJECT-OUT WINDOW									
FRAME SIZES		VENT SIZES		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
31-1/4"	27-1/4"	24"	24"	110.0	120.0	120.0	160.0	110.0	110.0
37-1/4"		30"		110.0	120.0	120.0	160.0	110.0	110.0
43-1/4"		36"		110.0	120.0	120.0	160.0	110.0	110.0
48"		40-3/4"		110.0	120.0	120.0	160.0	110.0	110.0
31-1/4"	33-1/4"	24"	30"	110.0	120.0	120.0	160.0	110.0	110.0
37-1/4"		30"		110.0	120.0	120.0	160.0	110.0	110.0
43-1/4"		36"		110.0	120.0	120.0	160.0	110.0	110.0
48"		40-3/4"		110.0	120.0	117.2	156.3	110.0	110.0
31-1/4"	39-1/4"	24"	36"	110.0	120.0	120.0	160.0	110.0	110.0
37-1/4"		30"		110.0	120.0	120.0	160.0	110.0	110.0
43-1/4"		36"		110.0	120.0	120.0	160.0	110.0	110.0
48"		40-3/4"		110.0	120.0	108.3	144.4	110.0	110.0
31-1/4"	45-1/4"	24"	42"	100.0	120.0	98.3	131.1	110.0	110.0
37-1/4"		30"		100.0	120.0	-	-	110.0	110.0
43-1/4"		36"		100.0	120.0	-	-	110.0	110.0
48"		40-3/4"		100.0	120.0	-	-	110.0	110.0
31-1/4"	51-1/4"	24"	48"	100.0	120.0	-	-	110.0	110.0
37-1/4"		30"		100.0	120.0	-	-	110.0	110.0
43-1/4"		36"		100.0	120.0	-	-	110.0	110.0
48"		40-3/4"		100.0	120.0	-	-	110.0	110.0
31-1/4"	57-1/4"	24"	54"	100.0	120.0	-	-	110.0	110.0
37-1/4"		30"		100.0	120.0	-	-	110.0	110.0
43-1/4"		36"		100.0	120.0	-	-	110.0	110.0
48"		40-3/4"		100.0	120.0	-	-	110.0	110.0
31-1/4"	63-1/4"	24"	60"	100.0	120.0	-	-	110.0	110.0
37-1/4"		30"		100.0	120.0	-	-	110.0	110.0
43-1/4"		36"		100.0	120.0	-	-	110.0	110.0
48"		40-3/4"		100.0	120.0	-	-	110.0	110.0
31-1/4"	69-1/4"	24"	66"	100.0	120.0	-	-	110.0	110.0
37-1/4"		30"		100.0	120.0	-	-	110.0	110.0
43-1/4"		36"		100.0	120.0	-	-	110.0	110.0
48"		40-3/4"		100.0	120.0	-	-	110.0	110.0
31-1/4"	75-1/4"	24"	72"	100.0	120.0	-	-	110.0	110.0
37-1/4"		30"		100.0	120.0	-	-	110.0	110.0
43-1/4"		36"		100.0	110.0	-	-	110.0	110.0
48"		40-3/4"		100.0	110.0	-	-	110.0	110.0
31-1/4"	81-1/4"	24"	78"	100.0	118.4	-	-	110.0	110.0
37-1/4"		30"		100.0	110.0	-	-	110.0	110.0
43-1/4"		36"		100.0	110.0	-	-	110.0	110.0
48"		40-3/4"		100.0	110.0	-	-	110.0	110.0



GLAZING OPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0317.07
Expiration Date: 10/04/2023
By: Manuel Perez
Miami-Dade Product Control



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

afC

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 W04-32RC

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

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

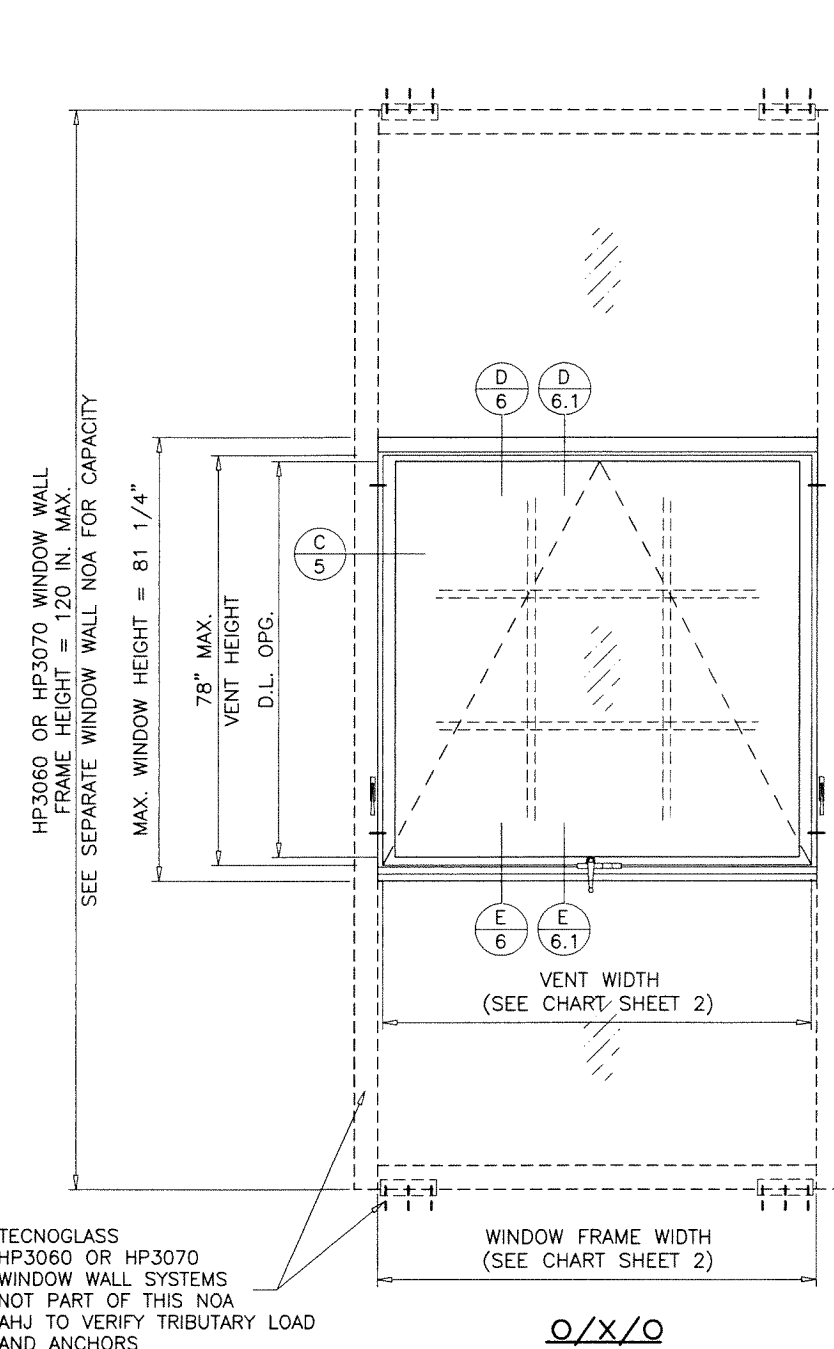
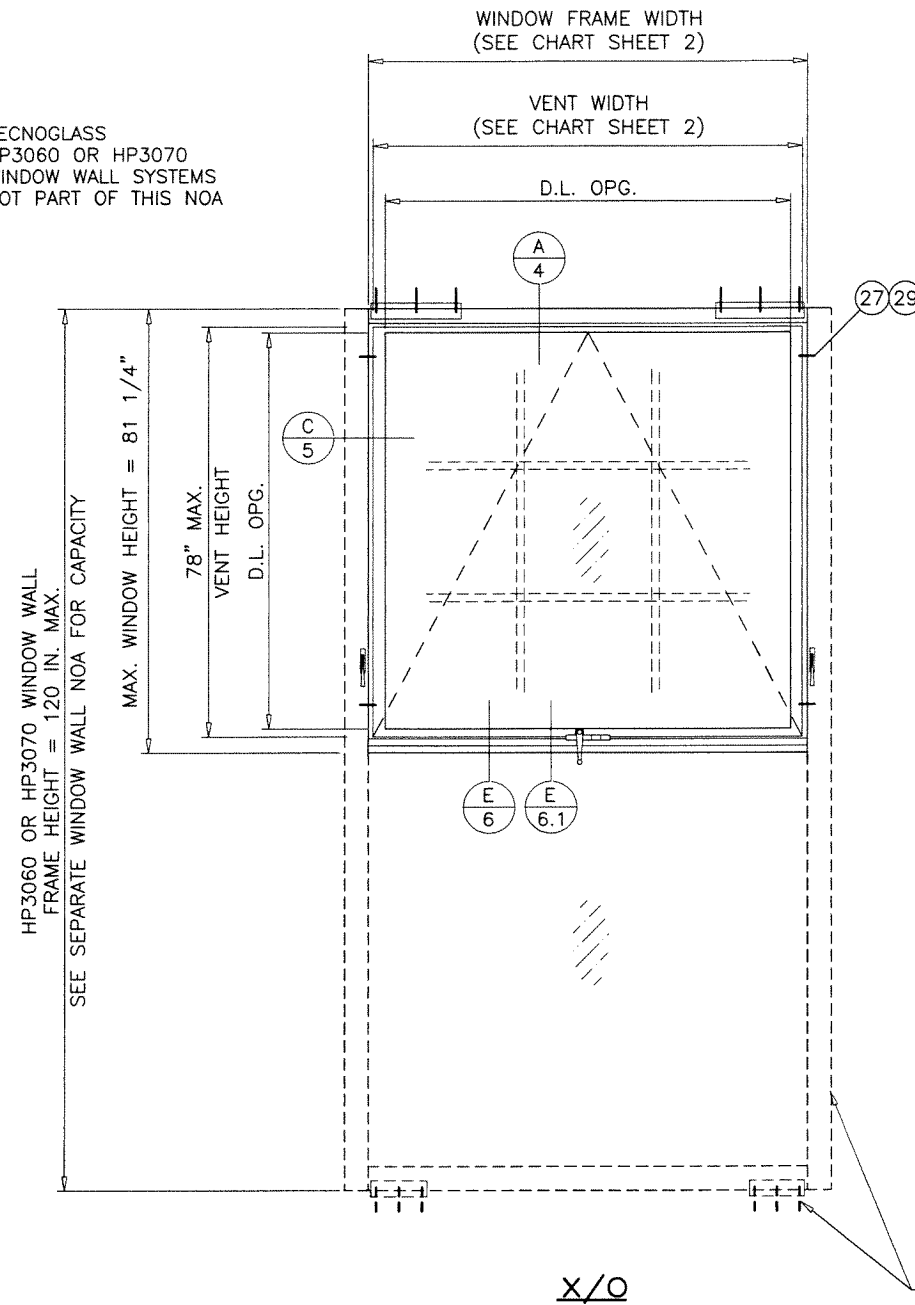
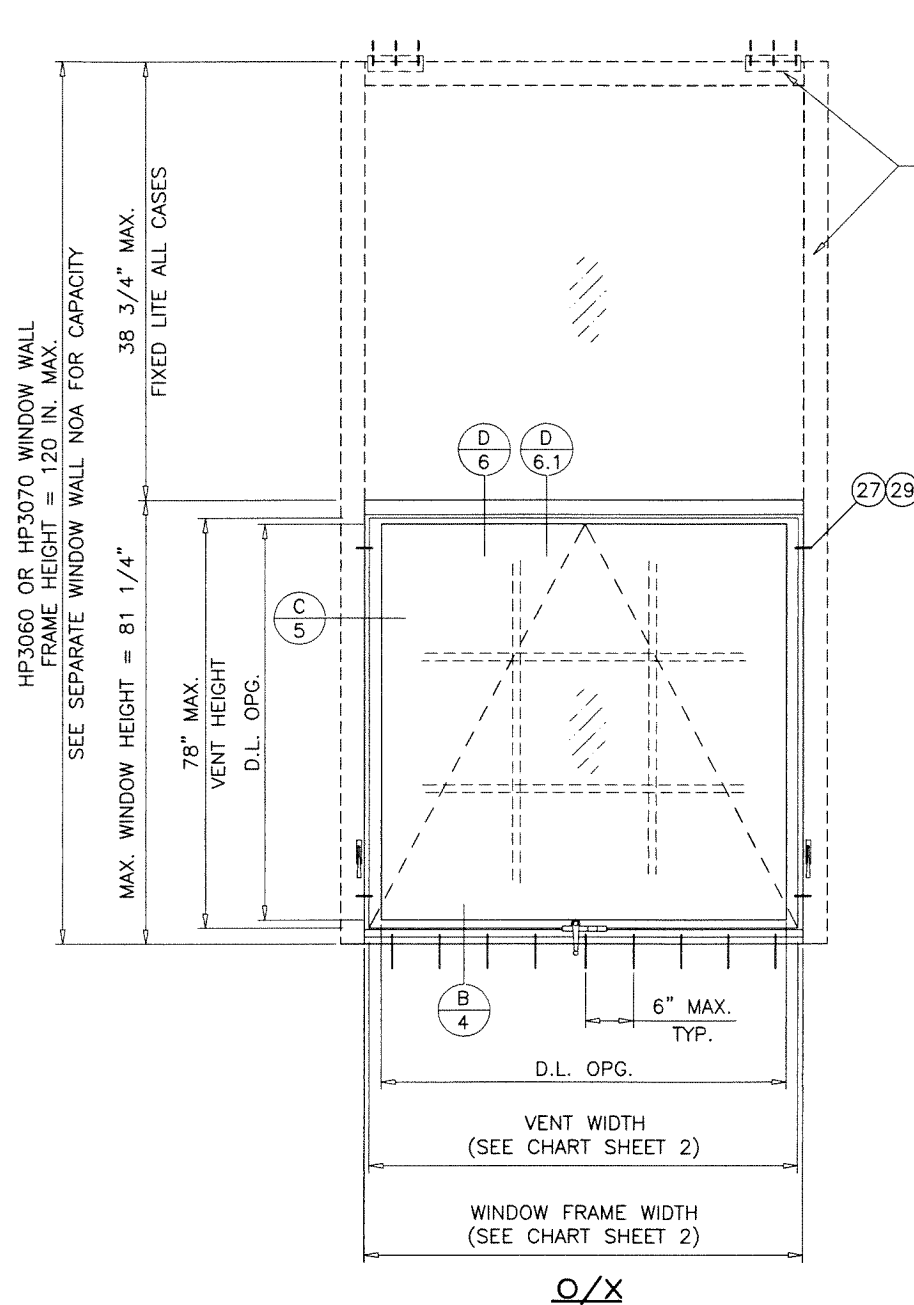
revisions:

no	date	by	description
G	02.08.16		GENERAL REVISION
H	07.19.16		REV. PER PER COMMENTS
I	06.28.18		REV. PER PER COMMENTS
J	11.20.20		UPDATED TO 2020 FBC

date: 04-15-04
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W04-32

sheet 2 of 8

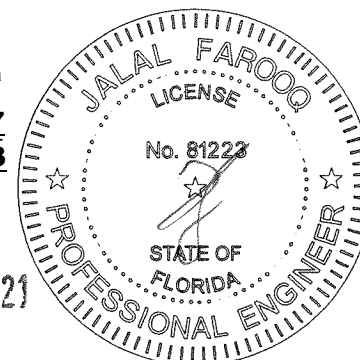


APPROVED CONFIGURATIONS

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.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0317.07**
Expiration Date: **10/04/2023**
By: *Manuel Perez*
Miami-Dade Product Control

MAR 11 2021



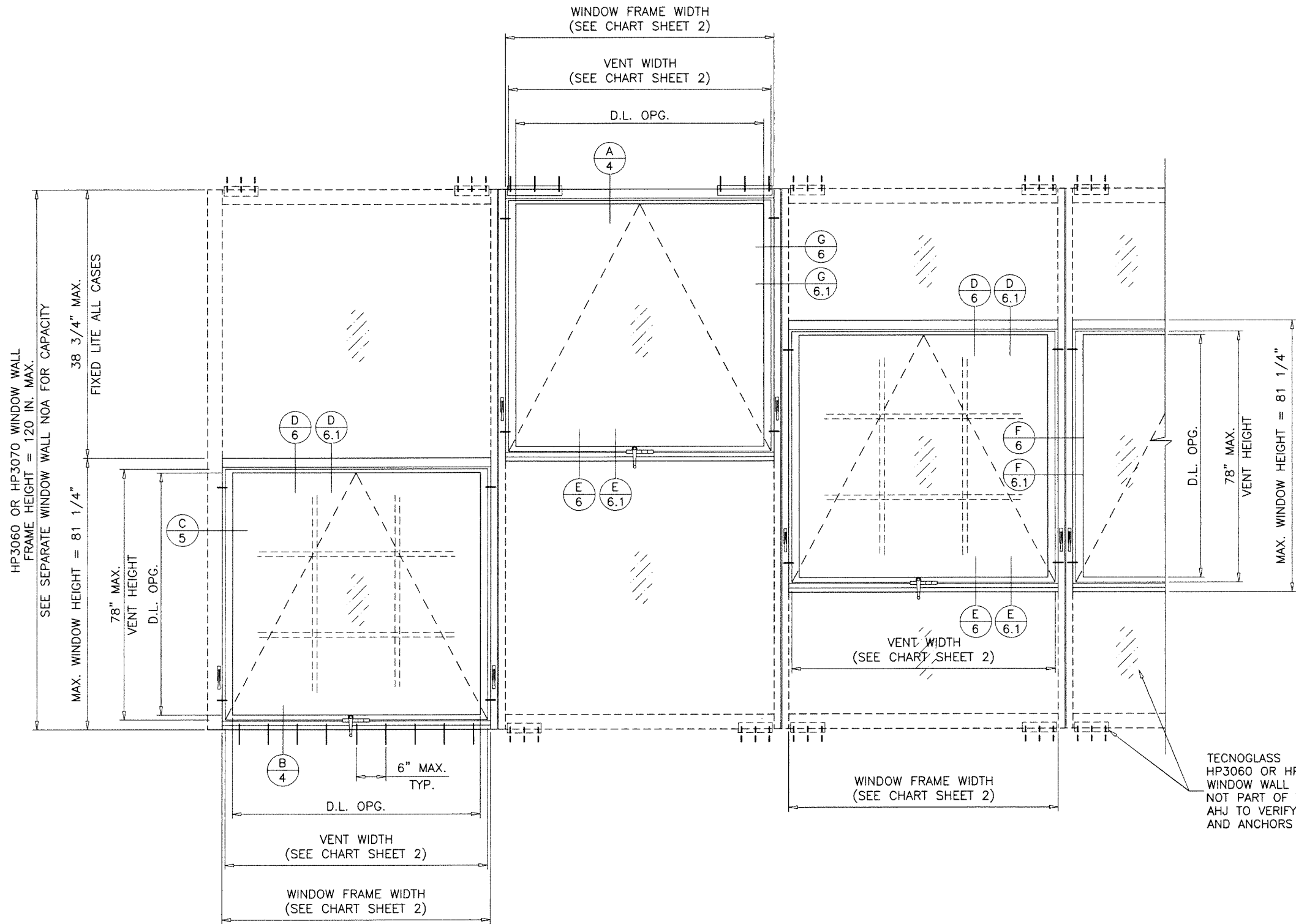
HP3060/3070 ALUM. PROJECT-OUT WINDOW (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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 W04-32RC

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chk. by:

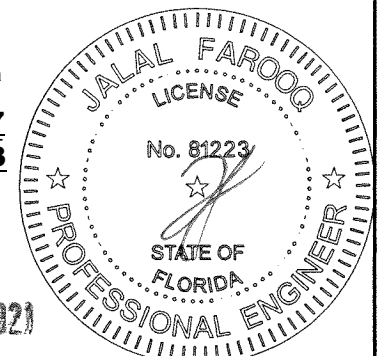
drawing no.
W04-32
sheet 3 of 8



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.

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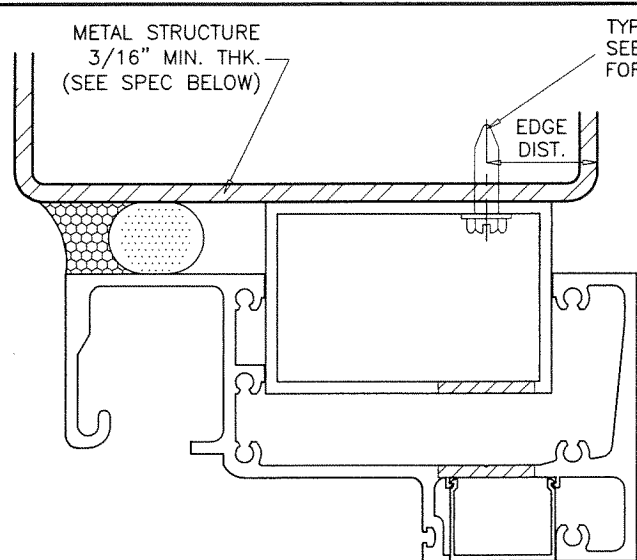
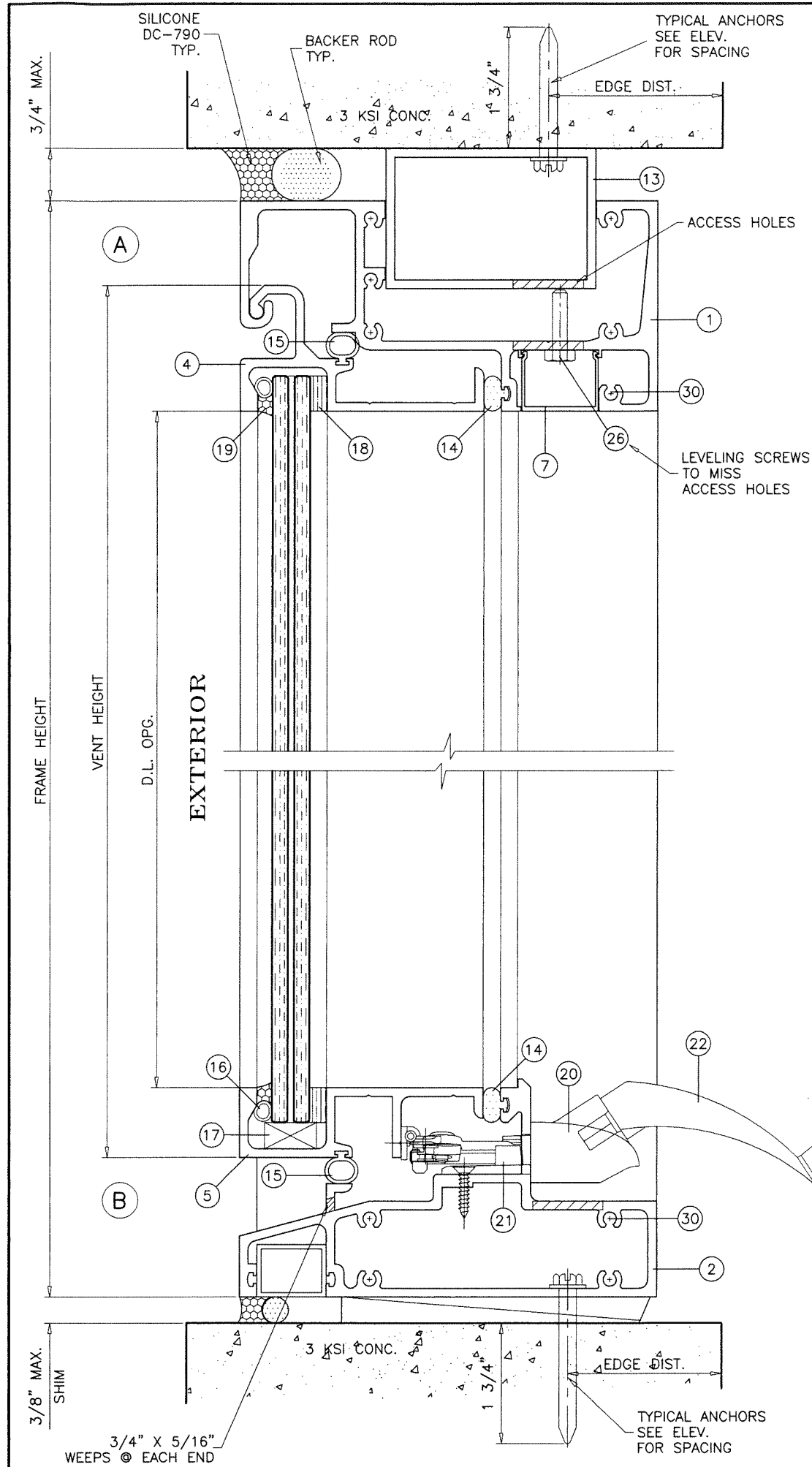


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		chk. by:			
drawing no.	W04-32				
sheet	3.1 of 8				



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' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

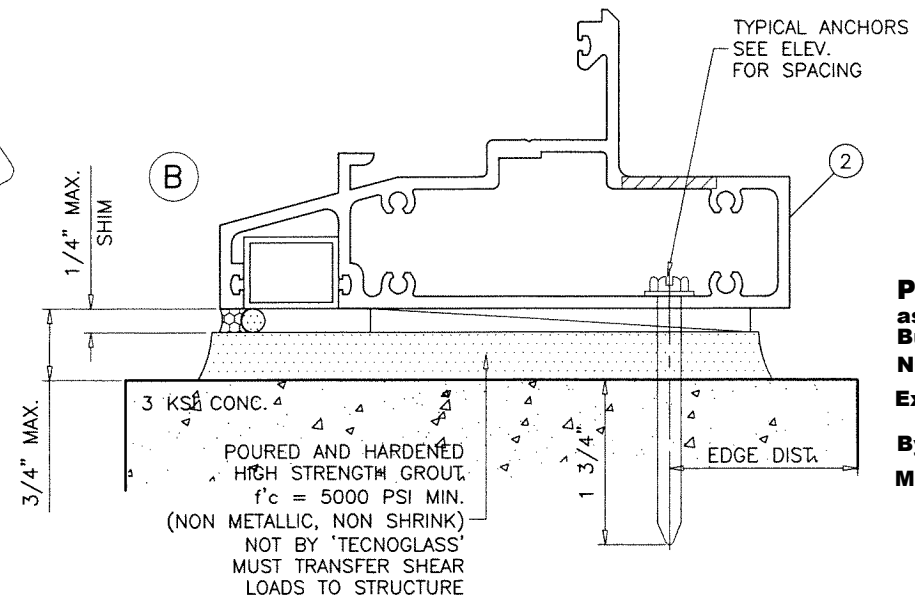
5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO METAL STRUCTURES (HEAD)
STEEL : 3/16" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS
ALUMINUM : 3/16" THK. MIN. (6063-T5 MIN.) (NO SHIM SPACE)

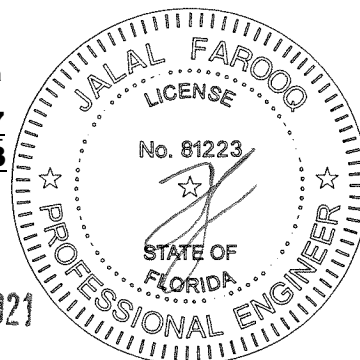
TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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

SEALANTS:
ALL FRAME CORNERS AND MULLION SEAMS SEALED
WITH SILICONE.



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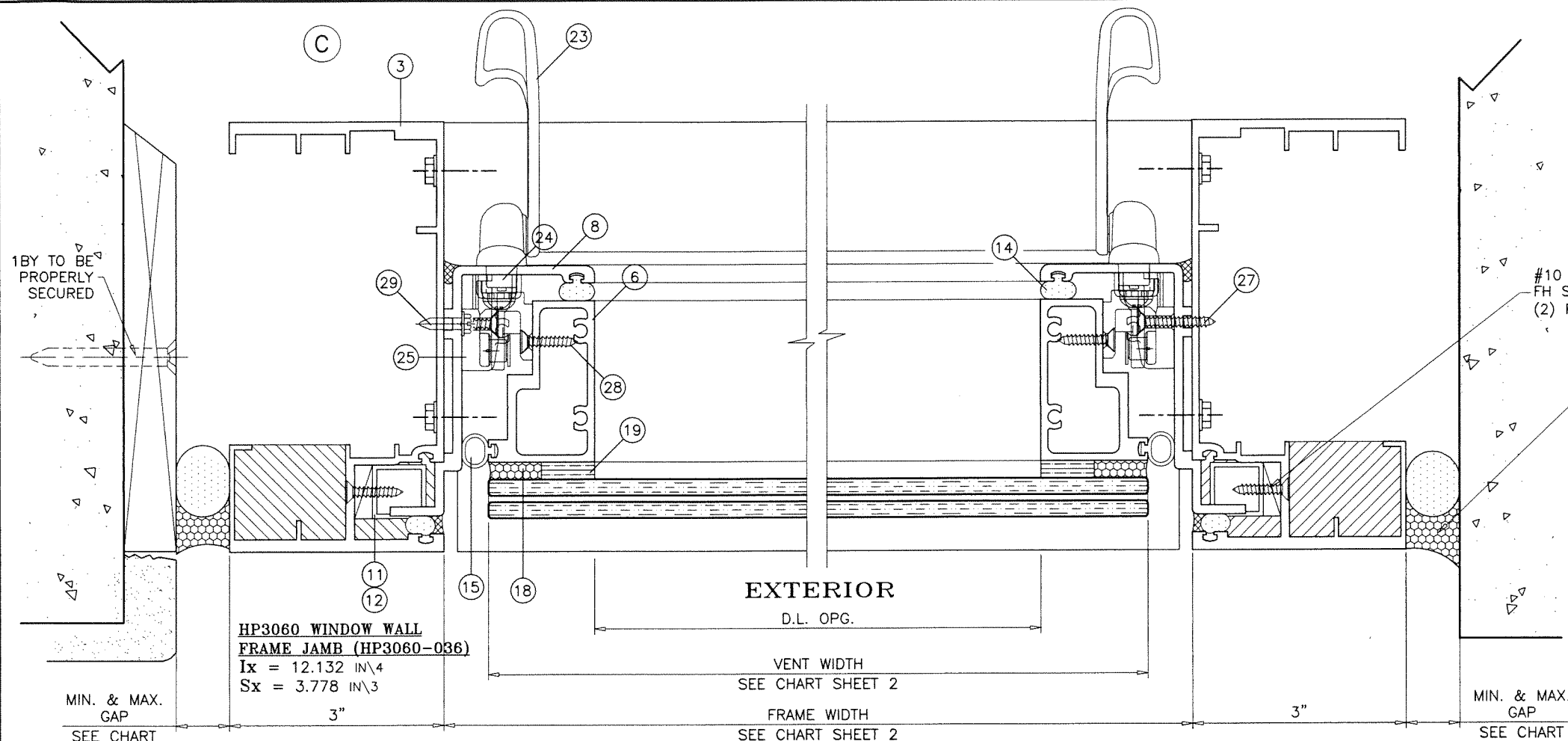
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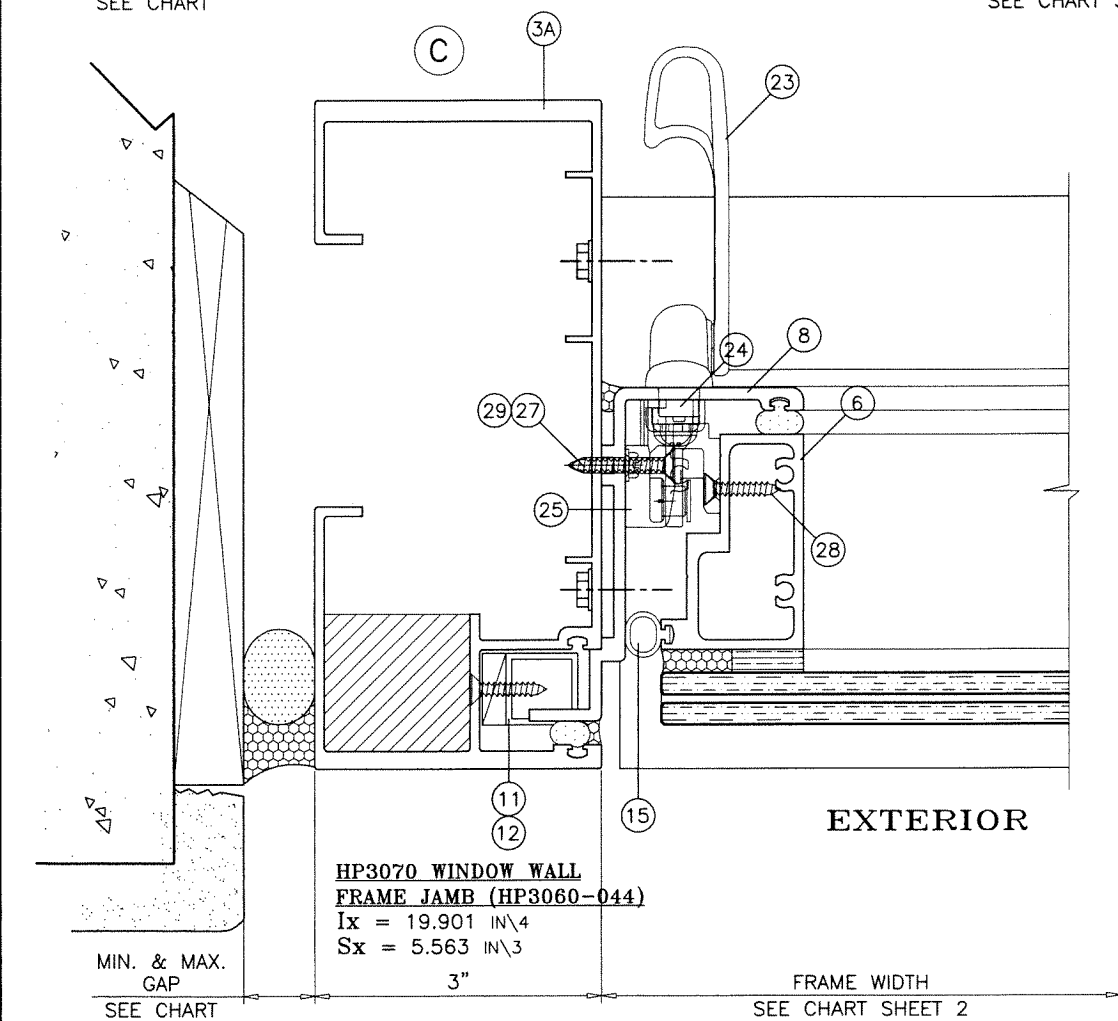
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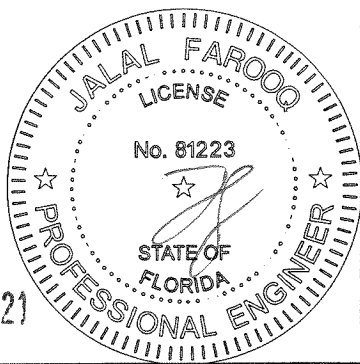
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MAX. UNIT FRAME HEIGHT	GAP	
	MIN.	MAX.
UPTO 120"	3/8"	1/2"



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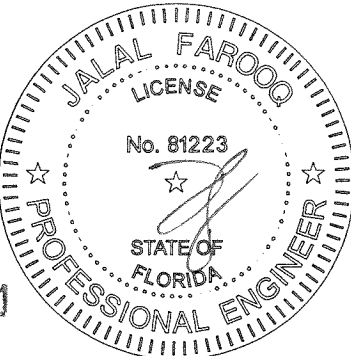
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ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	HP3060-049	1	FRAME HEAD	6063-T6	-
2	HP3060-050	1	FRAME SILL/ INTERMEDIATE SILL	6063-T6	-
3	HP3060-036	2	WINDOW JAMB (HP3060 WONDOW WALL)	6063-T6	-
3A	HP3060-044	2	WINDOW JAMB (HP3070 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	-
16	-	-	5/16" DIA. SPLINE	-	-
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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chk. by:

drawing no.

W04-32

sheet **5.1** of **8**

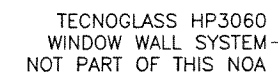
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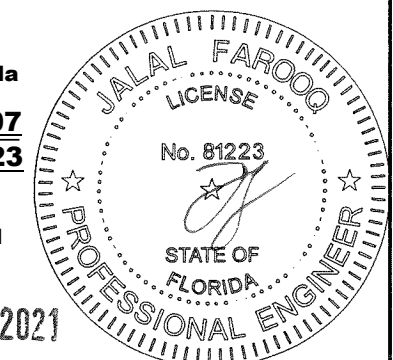


MULLION (HP3060 SYSTEM)
 $I_x = 14.0810 \text{ IN}^4$
 $S_x = 4.4617 \text{ IN}^3$

EXTERIOR
D. L. OPG.
VENT WIDTH
SEE CHART SHEET 2
WDW. FRAME WIDTH
SEE CHART SHEET 2

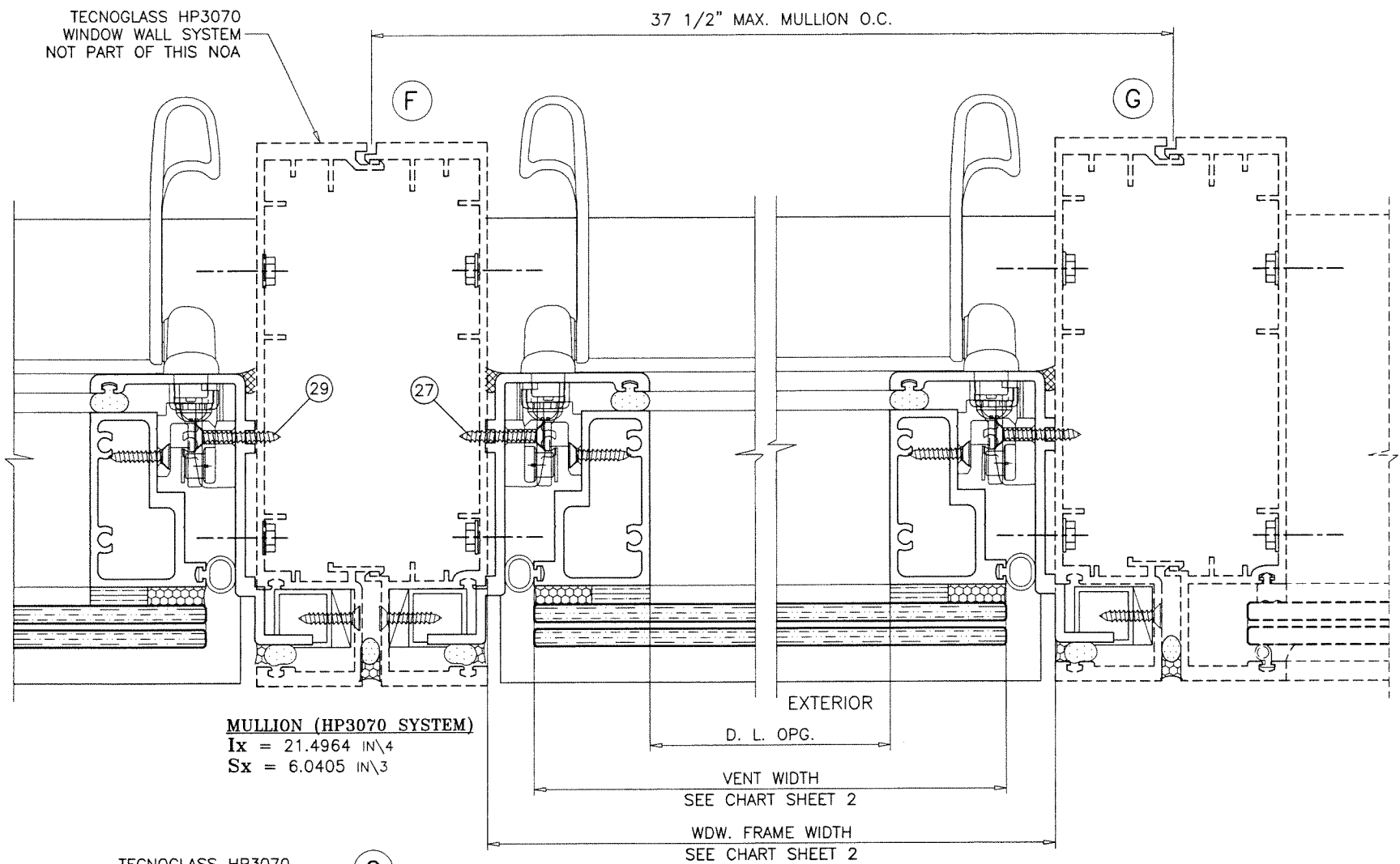
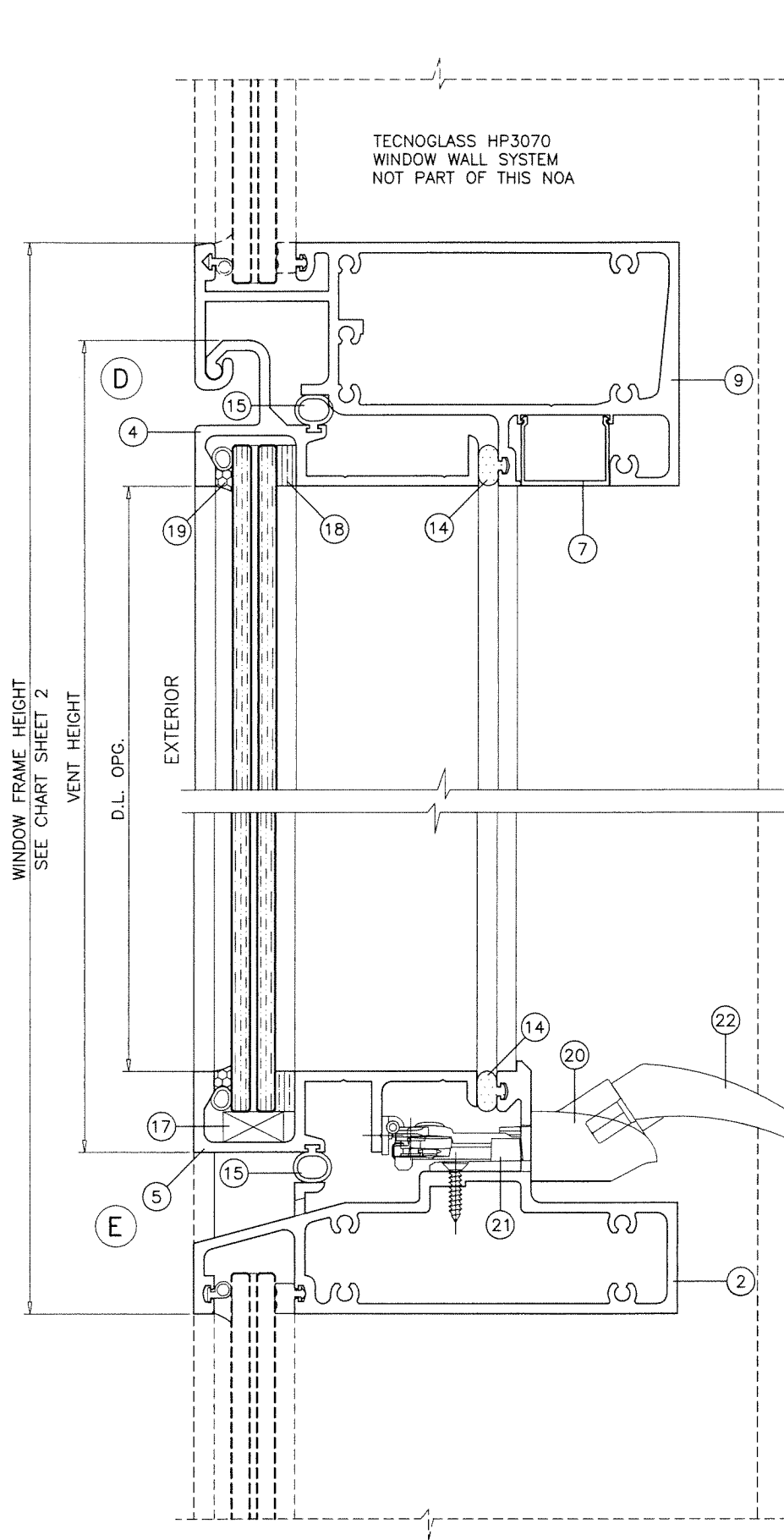
$$\begin{aligned} I_x &= 12.132 \text{ IN}^4 \\ S_x &= 3.778 \text{ IN}^3 \end{aligned}$$

By: [Signature]
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INSTALLATION DETAILS WITHIN HP3070 WINDOW WALL SYSTEM



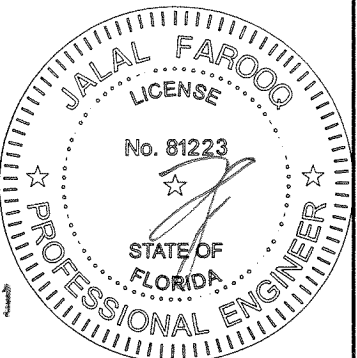
TECNOGLASS HP3070
WINDOW WALL SYSTEM
NOT PART OF THIS NOA

**HP3070 WINDOW WALL
FRAME JAMB (HP3060-044)**
Ix = 19.901 IN⁴
Sx = 5.563 IN³

MULLION (HP3070 SYSTEM)
Ix = 21.4964 IN⁴
Sx = 6.0405 IN³

SEE SEPARATE NOA FOR HP3070 WINDOW WALL SYSTEM
MULLION, GLASS AND ANCHOR CAPACITIES.
LOWER DESIGN PRESSURES FROM WINDOW CAPACITY CHART
ON SHEET 2 OR WINDOW WALL NOA WILL APPLY TO
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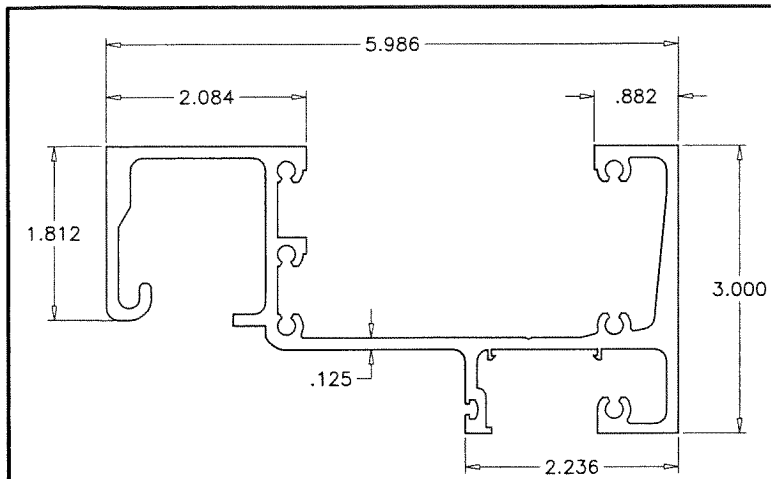
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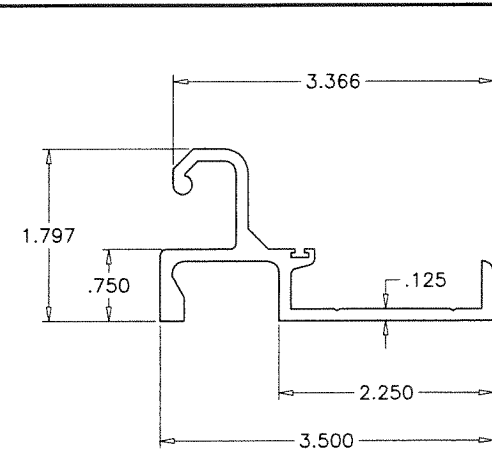
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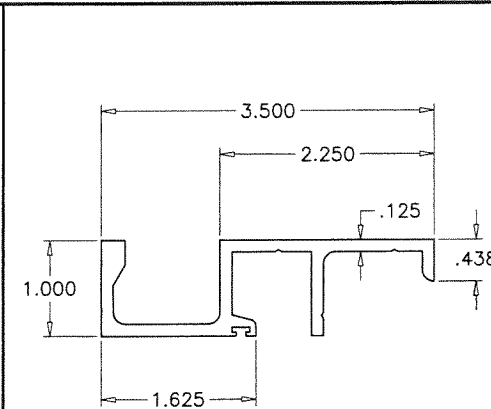
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sheet	6.1 of 8



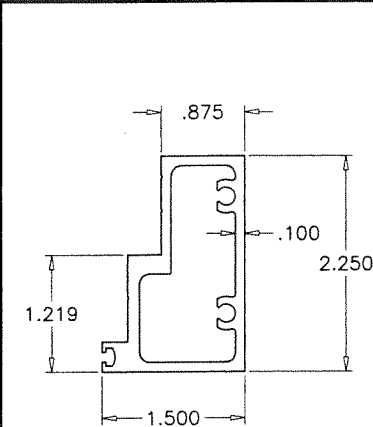
① FRAME HEAD



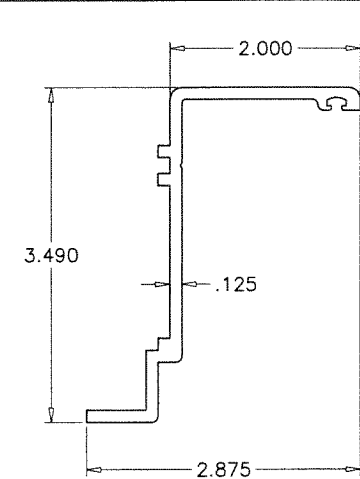
④ VENT HEAD



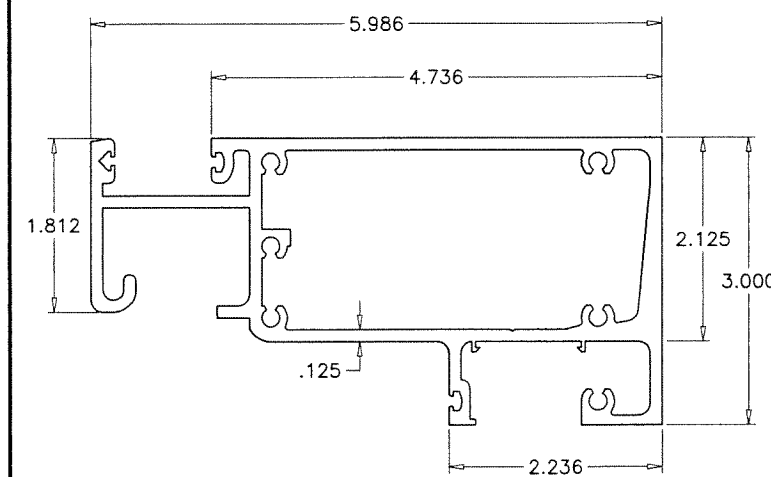
⑤ VENT SILL



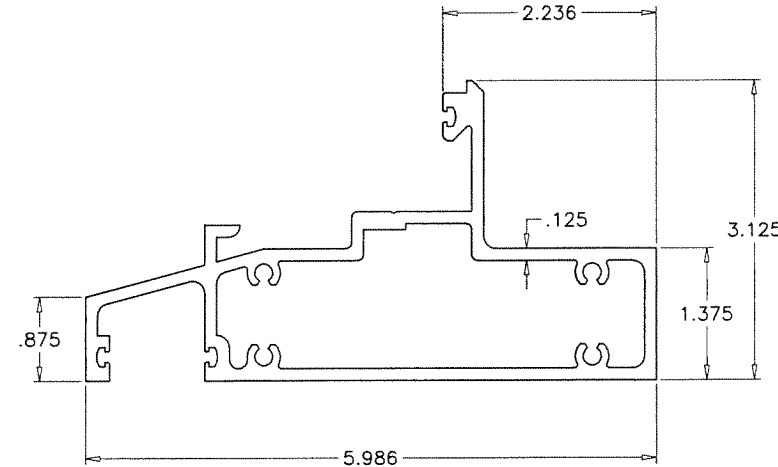
⑥ VENT JAMB



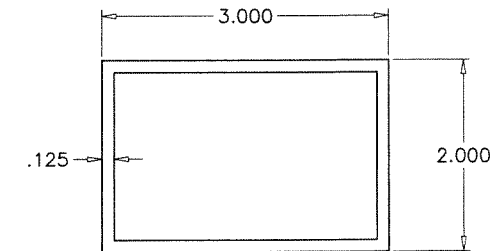
⑧ VENT JAMB ADAPTER



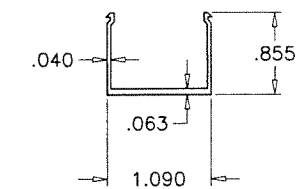
⑨ INTERMEDIATE HEAD



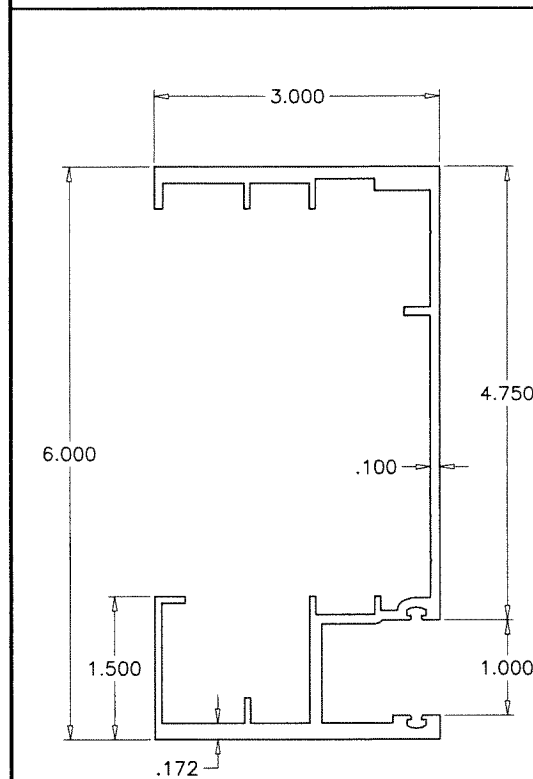
② FRAME SILL/INTERMEDIATE SILL



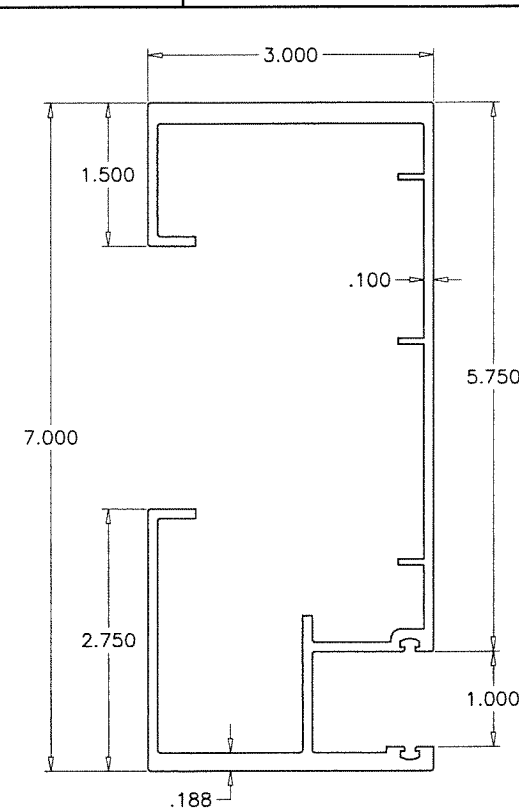
⑬ ALUMINUM TUBE



⑦ SNAP-IN COVER

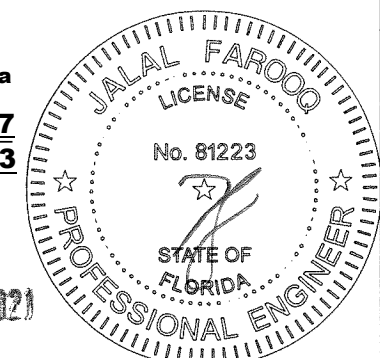


③ FRAME JAMB (3060 SYSTEM)



③A FRAME JAMB (3070 SYSTEM)

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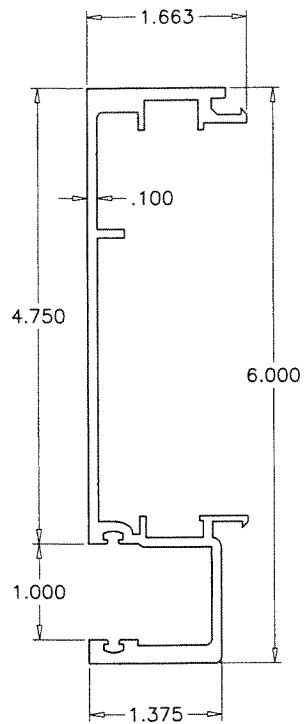
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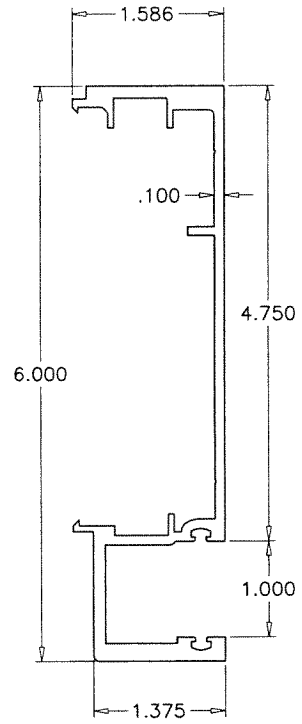
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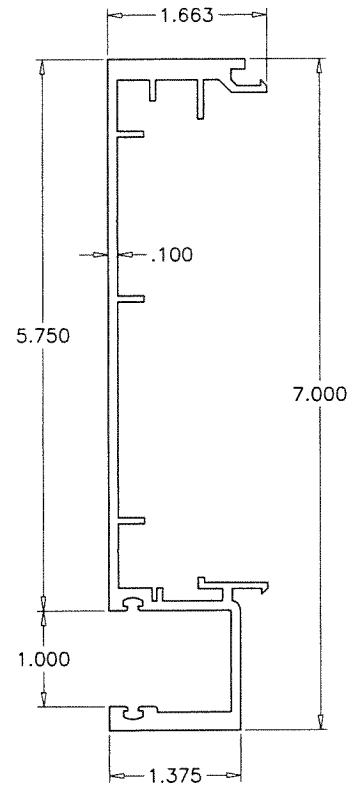
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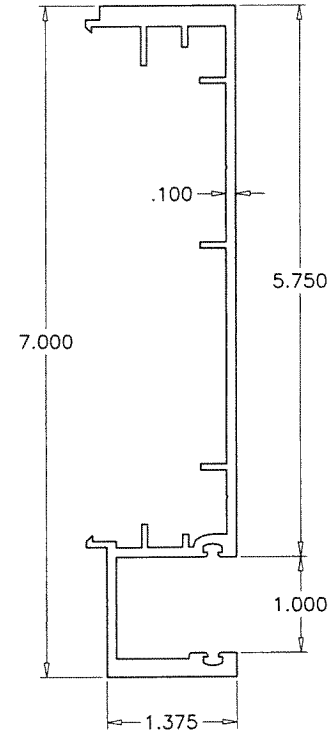
④⑧ HP3060 MALE MULLION



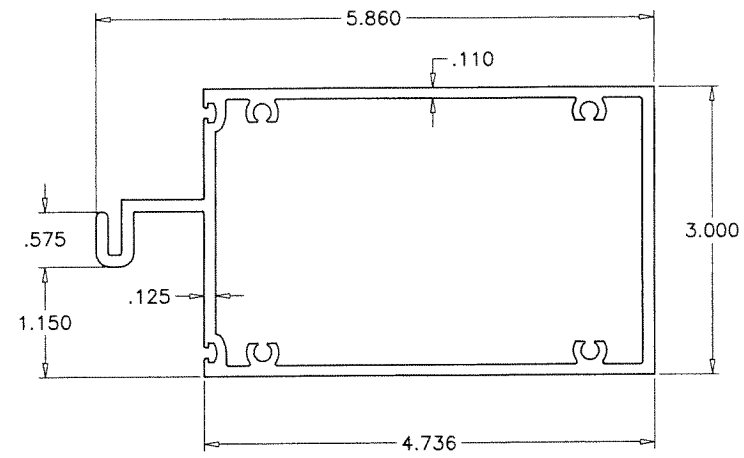
④⑦ HP3060 FEMALE MULLION



④⑥ HP3070 MALE MULLION



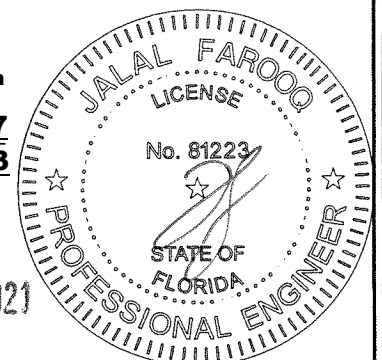
④⑤ HP3070 FEMALE MULLION



④④ INTERMEDIATE HORIZONTAL

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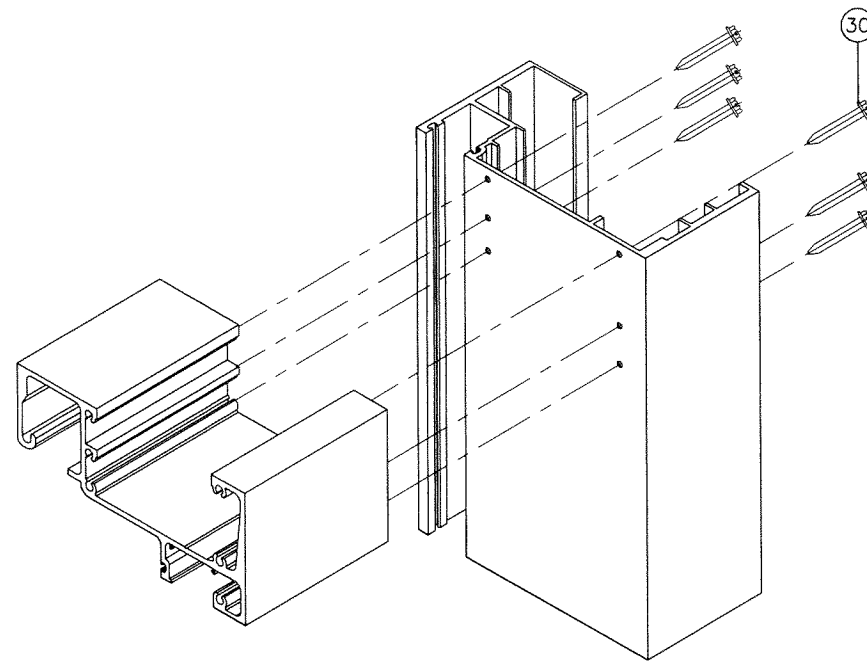
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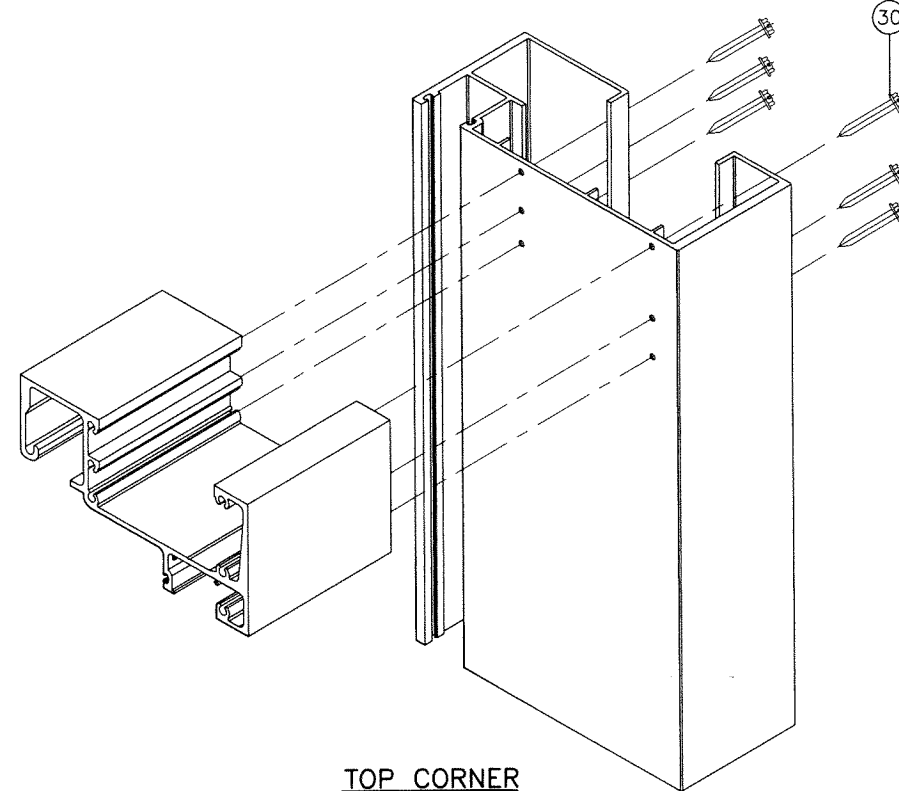
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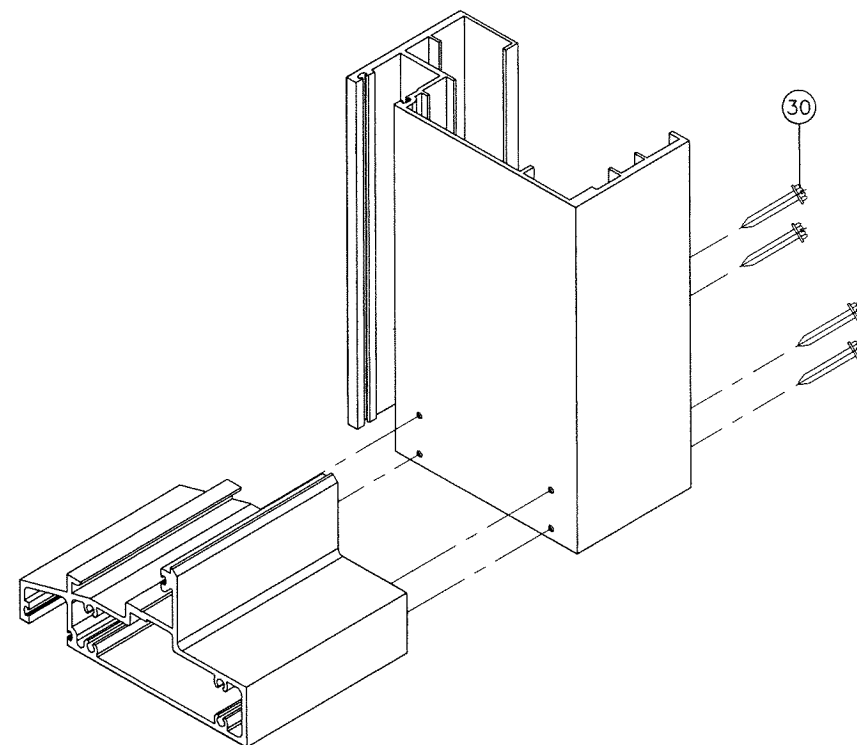
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W04-32RC



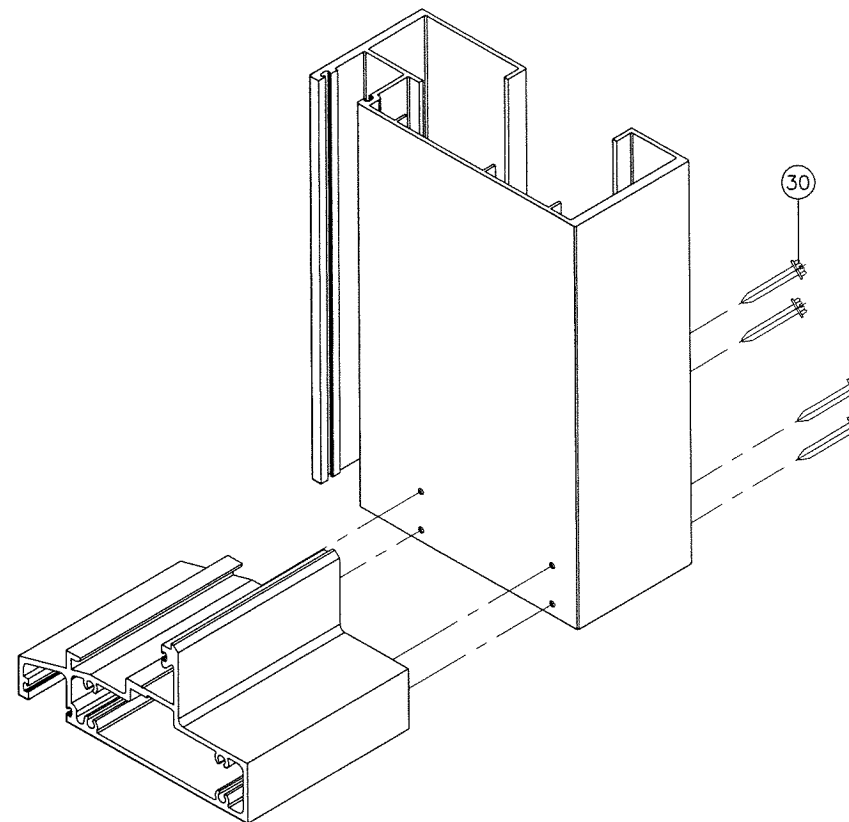
TOP CORNER
HP3060 WINDOW WALL SYSTEM



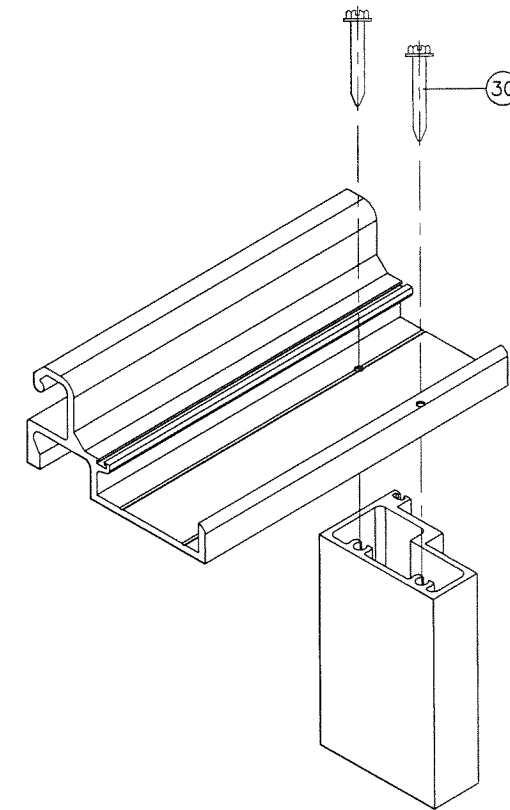
TOP CORNER
HP3070 WINDOW WALL SYSTEM



BOTTOM CORNER
HP3060 WINDOW WALL SYSTEM

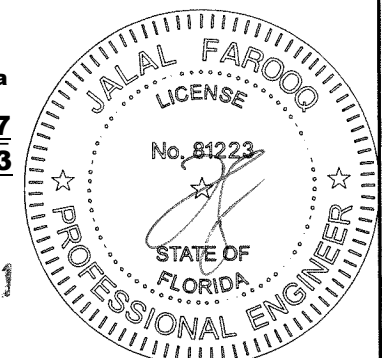


BOTTOM CORNER
HP3070 WINDOW WALL SYSTEM



VENT CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0317.07**
Expiration Date: **10/04/2023**
By: *Manuel Perez*
Miami-Dade Product Control
MAR 11 2021



HP3060/3070 ALUM. PROJECT-OUT WINDOW (S.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	07.19.16		REV. PER PER COMMENTS
I	06.28.18		REV. PER PER COMMENTS
J	11.20.20		UPDATED TO 2020 FBC

date: 04-15-04	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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drawing no.
W04-32
sheet **8** of **8**

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
af c
STORE W04-32RC