



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" Aluminum Window Wall System – S.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W04-25**, titled "HP3060 Alum. Window Wall System (S.M.I.)", sheets 1 through 7 of 7, dated 03/22/04, with revision **I** 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: 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.

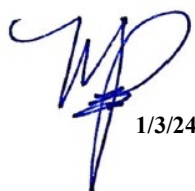
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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. **21-0317.10** and consists of this page 1, evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

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



  
1/3/24

NOA No. 23-1012.13  
Expiration Date: July 01, 2025  
Approval Date: January 11, 2024  
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. 04-0517.02)*
2. Drawing No. **W04-25**, titled "HP3060 Alum. Window Wall System (S.M.I.)", sheets 1 through 7 of 7, dated 03/22/04, with revision **H** dated 11/20/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 21-0317.10)*

**B. TESTS**

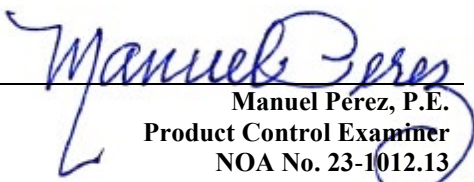
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Small Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Safety Performance Test, (class A) per ANSI Z97.1 Class A  
7) Forced Entry Test, Type "D-A" fixed window, Grade 10, Level LV 1 per ASTM F 588 and per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum window wall system, 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. 09-0812.15)*
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) Safety Performance Test, (class A) per ANSI Z97.1 Class A  
7) Forced Entry Test, Type "D-A" fixed window, Grade 10, Level LV 1 per ASTM F 588 and per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5692**, dated 08/22/08, signed and sealed by Carlos S. Rionda, P.E.  
And Test Report No. **FTL-5320**, Drop Test dated 07/05/07, signed and sealed by Michael R. Wenzel, P.E.  
*(Submitted under NOA No. 08-1119.06)*

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-1012.13  
Expiration Date: July 01, 2025  
Approval Date: January 11, 2024

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

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) Small Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Safety Performance Test, (class A) per ANSI Z97.1 Class A  
7) Forced Entry Test, Type "D-A" fixed window, Grade 10, Level LV 1 per ASTM F 588 and per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-3541** and **FTL-3542**, dated 08/19/02, both signed and sealed by Edmundo J. Largaespada, P.E.  
***(Submitted under NOA No. 04-0517.02)***
4. 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) Safety Performance Test, (class A) per ANSI Z97.1 Class A  
7) Forced Entry Test, Type "D-A" fixed window, Grade 10, Level LV 1 per ASTM F 588 and per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2993** dated 03/19/01, signed and sealed by Luis Antonio Figueredo, P.E.  
***(Submitted under NOA No. 04-0517.02)***
5. 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) Safety Performance Test, (class A) per ANSI Z97.1 Class A  
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering and Testing, Inc., Test Reports No. **HETI-02-1269** and **HETI-02-1266**, dated 11/15/02 and 11/26/02 respectively; and **HETI-02-T096**, Tensile Test dated 12/31/02, all signed and sealed by Rafael E. Droz-Seda, P.E.  
***(Submitted under NOA No. 04-0517.02)***

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-1012.13  
Expiration Date: July 01, 2025  
Approval Date: January 11, 2024

**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 5<sup>th</sup> Edition (2014), dated 04/25/16, updated on 09/21/17 to comply with FBC 6<sup>th</sup> Edition (2017) and further 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. 21-0317.10)*
2. Glazing complies with **ASTM E 1300-09**

**D. QUALITY ASSURANCE**

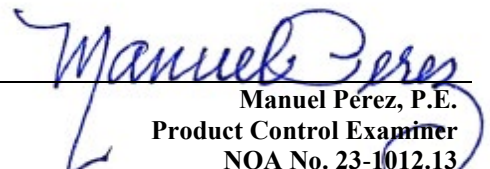
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**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.

**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. 21-0317.10)*
2. 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 NOA No. 12-0330.10):*
3. 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. **12-0330.09**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.  
*(Submitted under NOA No. 12-0330.10):*
4. 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. 12-0330.10):*

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-1012.13  
Expiration Date: July 01, 2025  
Approval Date: January 11, 2024

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**


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

**F. STATEMENTS (CONTINUED)**

5. Laboratory compliance letters prepared by Fenestration Testing Laboratory, Inc., for Test Report No. **FTL-5739** and **FTL-5692**, dated 01/20/09 and 08/22/08, both signed and sealed by Carlos S. Rionda, P.E.  
*(Submitted under NOA No. 09-0812.15 and 08-1119.06)*
6. Laboratory compliance letters prepared by Fenestration Testing Laboratory, Inc., for Test Report No. **FTL-5320**, dated 07/05/07, signed and sealed by Michael R. Wenzel  
*(Submitted under NOA No. 08-1119.06)*
7. Laboratory compliance letters prepared by Fenestration Testing Laboratory, Inc., for Test Report No. **FTL-3541** and **FTL-3542**, dated 08/19/03, both signed and sealed by Edmundo Largaespada, P.E.  
*(Submitted under NOA No. 04-0517.02)*
8. Laboratory compliance letters prepared by Fenestration Testing Laboratory, Inc., for Test Report No. **FTL-2993**, dated 03/19/01, signed and sealed by Luis Antonio Figueredo, P.E.  
*(Submitted under NOA No. 04-0517.02):*
9. Laboratory compliance letters prepared by Hurricane Engineering and Testing, Inc., for Test Reports No. **HETI-02-T096**, **HETI-02-1269** and **HETI-02-1266**, dated 12/31/02, 11/26/02 and 11/15/02, respectively, all signed and sealed by Rafael E. Droz-Seda, P.E.  
*(Submitted under NOA No. 04-0517.02)*

**G. OTHERS**

1. Notice of Acceptance No. **18-0821.07**, issued to Tecnoglass, LLC., for their Series “**HP-3060” Aluminum Window Wall System – S.M.I.**”, approved on 10/04/18 and expiring on 07/01/24.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-1012.13  
Expiration Date: July 01, 2025  
Approval Date: January 11, 2024

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W04-25**, titled “HP3060 Alum. Window Wall System (S.M.I.)”, sheets 1 through 7 of 7, dated 03/22/04, with revision **I** 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**

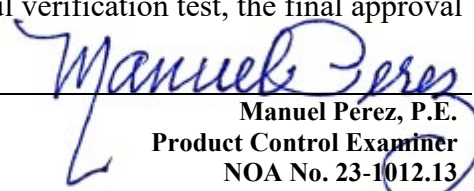
1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/15/22, expiring on 07/04/28.
2. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 11/19/20, expiring on 07/08/24.

**F. STATEMENTS**

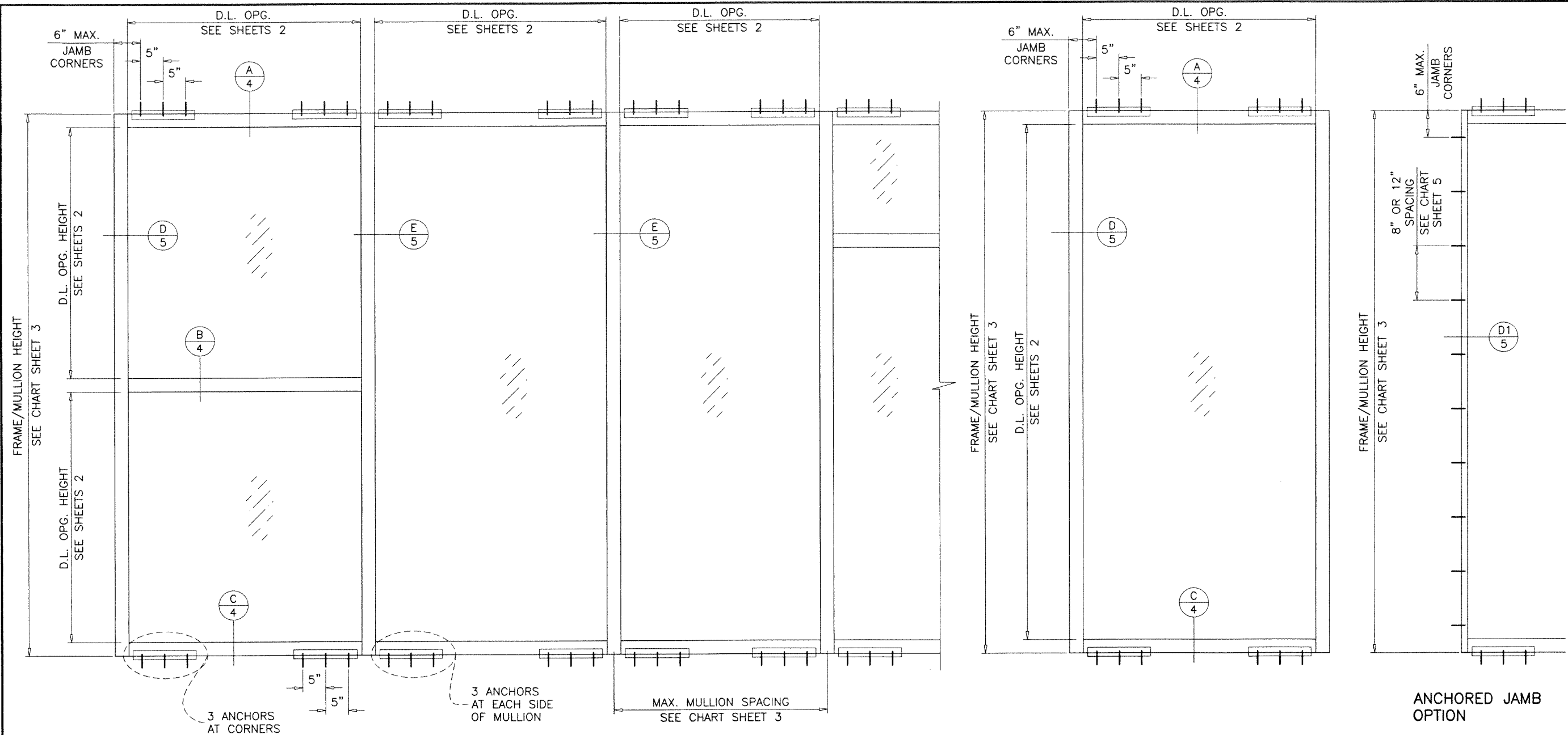
1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, with **FBC 8<sup>th</sup> Edition (2023)** and of no financial interest, dated September 26, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Letter from professional engineer requesting a 1-year extension to allow time to perform verification test, dated 09/26/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
3. Testing agreement letter, dated 09/27/23, between QAI Laboratories and Tecnoglass, LLC, issued by QAI Laboratory, Inc. and signed by Lusinda Delgado, Technical Report Writer.

**G. OTHERS**

1. Notice of Acceptance No. **21-0317.10**, issued to Tecnoglass, LLC, for their Series “HP-3060” Aluminum Window Wall System – S.M.I., approved on 05/13/21 and expiring on 07/01/24.
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. 23-1012.13  
Expiration Date: July 01, 2025  
Approval Date: January 11, 2024





## HP3060 ALUM. WINDOW WALL SYSTEM (S.M.I.)

THIS SYSTEM IS 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.  
 CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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)'.

## TYPICAL ELEVATIONS

### INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

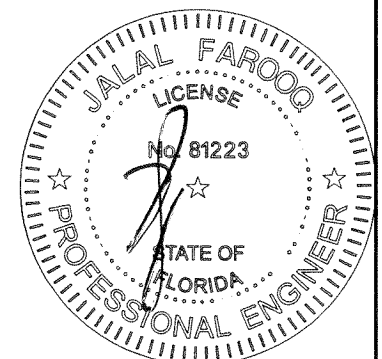
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED  
ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE  
USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEETS 2 FOR DESIGN LOAD CAPACITY  
OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND  
HEIGHT USING MULLION CHARTS ON SHEET 3  
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3  
SHALL APPLY TO ENTIRE SYSTEM.

WINDOW WALL SYSTEM WITH GLASS TYPES 'A', & 'C'  
 COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

**PRODUCT REVISED**  
 As complying with the Florida  
 Building Code  
**NOA-No. 23-1012.13**  
**Expiration Date: 07/01/2025**  
 By: *Manuel Perez*  
 Miami-Dade Product Control

SEP 22 2023

**LAMINATED GLASS**  
**SMALL MISSILE IMPACT**



**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 W04-25RC

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HP3060 ALUM. WINDOW WALL SYSTEM (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
E	08.05.14		MANUF. NAME REV.
F	05.13.16		UPDATED TO 2014 FBC
G	10.04.17		REV. PER RER COMMENTS
H	11.20.20		UPDATED TO 2020 FBC
I	09.20.23		UPDATED TO 2023 FBC

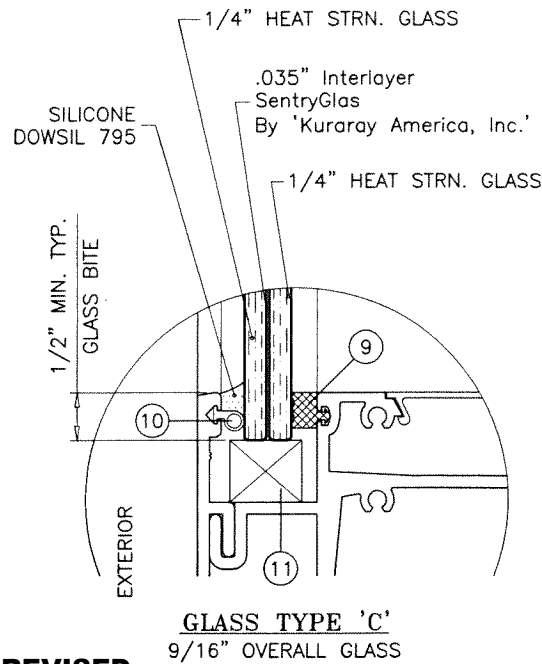
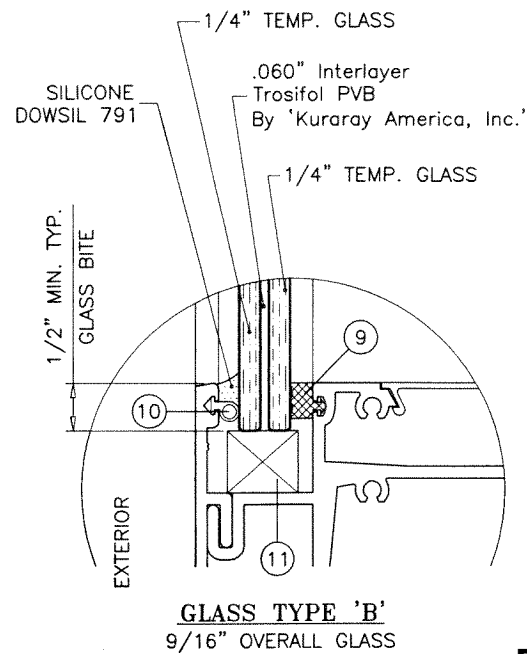
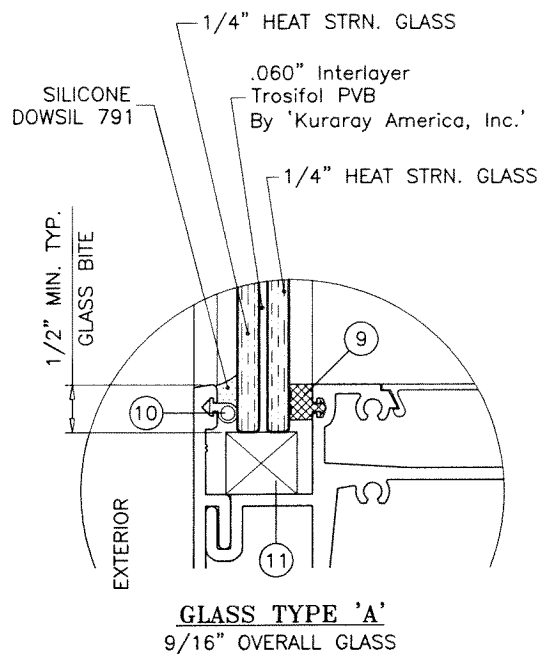
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date: 03-22-04  
 scale: 1/2" = 1'-0"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W04-25**  
 sheet 1 of 7

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS		GLASS TYPES 'A' & 'B'	GLASS TYPE 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	66"	140.0	140.0
39"		140.0	140.0
42"		140.0	140.0
45"		140.0	140.0
48"		140.0	140.0
51"		140.0	140.0
54"		140.0	140.0
57"		140.0	140.0
60"		140.0	140.0
63"		140.0	140.0
66"		140.0	140.0
69"		140.0	140.0
72"		140.0	140.0
36"	72"	140.0	140.0
39"		140.0	140.0
42"		140.0	140.0
45"		140.0	140.0
48"		140.0	140.0
51"		140.0	140.0
54"		140.0	140.0
57"		140.0	140.0
60"		140.0	140.0
63"		140.0	140.0
66"		140.0	140.0
69"		-	140.0
36"	78"	140.0	140.0
39"		140.0	140.0
42"		140.0	140.0
45"		140.0	140.0
48"		140.0	140.0
51"		140.0	140.0
54"		140.0	140.0
57"		140.0	140.0
60"		140.0	140.0
63"		-	140.0
36"	84"	140.0	140.0
39"		140.0	140.0
42"		140.0	140.0
45"		140.0	140.0
48"		140.0	140.0
51"		140.0	140.0
54"	90"	140.0	140.0
57"		140.0	140.0
60"		-	140.0
36"		140.0	140.0
39"		140.0	140.0
42"		140.0	140.0
45"		140.0	140.0
48"		140.0	140.0
51"		140.0	140.0
54"		-	140.0

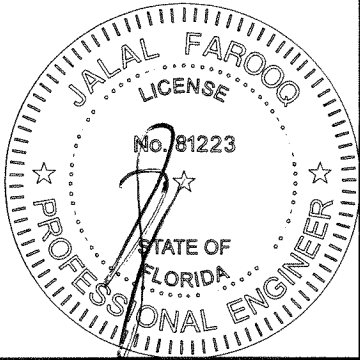
GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS		GLASS TYPES 'A' & 'B'	GLASS TYPE 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	96"	140.0	140.0
39"		140.0	140.0
42"		140.0	140.0
45"		140.0	140.0
48"		140.0	140.0
51"		-	140.0
36"	102"	140.0	140.0
39"		140.0	140.0
42"		140.0	140.0
45"		140.0	140.0
48"		-	140.0
36"	108"	140.0	140.0
39"		140.0	140.0
42"		140.0	140.0
45"		-	140.0
36"	114"	140.0	140.0
39"		140.0	140.0
42"		-	140.0
45"		-	140.0
36"	120"	140.0	140.0
39"		140.0	140.0
42"		-	140.0
36"	126"	140.0	140.0
39"		-	140.0



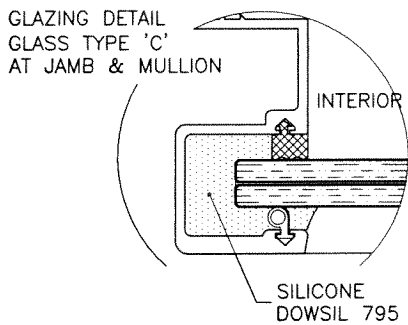
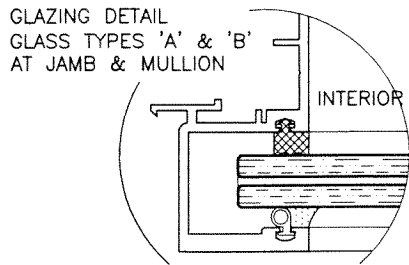
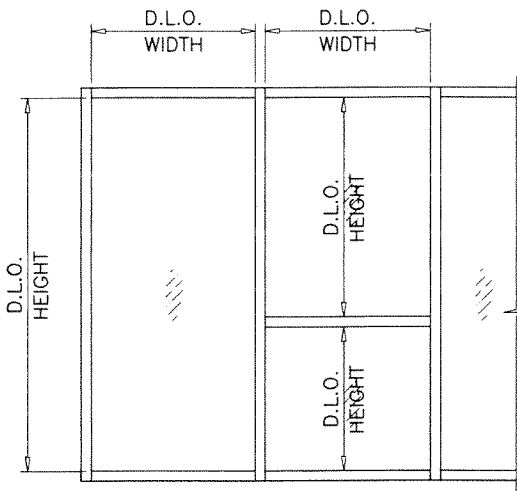
GLAZING OPTIONS

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-1012.13**  
Expiration Date: **07/01/2025**  
By: *Manuel Perez*  
Miami-Dade Product Control

SEP 22 2023



NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



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

HP3060 ALUM. WINDOW WALL SYSTEM (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
E	08.05.14	MANUF.	NAME REV.
F	05.13.16		UPDATED TO 2014 FBC
G	10.04.17	REV.	PER PER COMMENTS
H	11.20.20		UPDATED TO 2020 FBC
I	09.20.23		NO CHANGE THIS SHEET

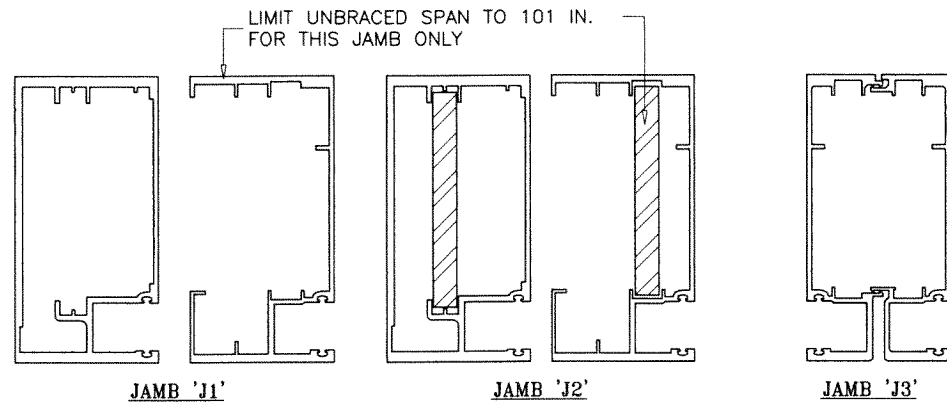
date: 03-22-04  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W04-25**  
sheet 2 of 7

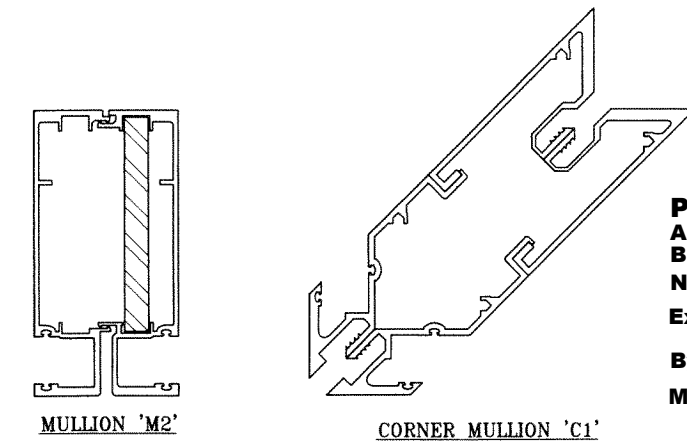


MULLION/JAMB DESIGN LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J1'		JAMBS 'J2'/'J3'		MULLION 'M1'		MULLION 'M2'		CORNER MULL 'C1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	84"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
36"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
42"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
48"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
54"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
60"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
66"		140.0	140.0	140.0	140.0	131.2	131.2	140.0	140.0	120.0	120.0
72"		140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
30"	90"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
36"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
42"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
48"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
54"		140.0	140.0	140.0	140.0	138.3	138.3	140.0	140.0	120.0	120.0
60"		140.0	140.0	140.0	140.0	124.5	124.5	140.0	140.0	120.0	120.0
63"		140.0	140.0	140.0	140.0	118.6	118.6	140.0	140.0	120.0	120.0
66"		140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
72"		140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
30"	96"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
36"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
42"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
48"		140.0	140.0	140.0	140.0	135.5	135.5	140.0	140.0	120.0	120.0
54"		140.0	140.0	140.0	140.0	120.4	120.4	140.0	140.0	120.0	120.0
57"		140.0	140.0	140.0	140.0	114.1	114.1	140.0	140.0	120.0	120.0
60"		140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
66"		140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
69"		140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
30"	102"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
36"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
42"		140.0	140.0	140.0	140.0	135.9	135.9	140.0	140.0	120.0	120.0
48"		140.0	140.0	140.0	140.0	118.9	118.9	140.0	140.0	120.0	120.0
54"		140.0	140.0	140.0	140.0	105.7	105.7	140.0	140.0	120.0	120.0
60"		140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
66"		140.0	140.0	140.0	140.0	-	-	139.4	139.4	-	-
30"	108"	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
36"		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	120.0	120.0
42"		140.0	140.0	140.0	140.0	120.1	120.1	140.0	140.0	120.0	120.0
48"		140.0	140.0	140.0	140.0	105.1	105.1	140.0	140.0	120.0	120.0
51"		140.0	140.0	140.0	140.0	98.9	98.9	140.0	140.0	120.0	120.0
54"		140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
60"		140.0	140.0	140.0	140.0	-	-	136.7	136.7	-	-
63"		140.0	140.0	140.0	140.0	-	-	130.2	130.2	-	-
30"	114"	140.0	140.0	140.0	140.0	-	-	140.0	140.0	-	-
36"		140.0	140.0	140.0	140.0	-	-	110.0	110.0	-	-
42"		140.0	140.0	140.0	140.0	-	-	110.0	110.0	-	-
48"		140.0	140.0	140.0	140.0	-	-	110.0	110.0	-	-
54"		140.0	140.0	140.0	140.0	-	-	110.0	110.0	-	-
60"		138.8	138.8	140.0	140.0	-	-	110.0	110.0	-	-
30"	120"	-	-	90.0	90.0	-	-	110.0	110.0	-	-
36"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
42"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
48"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
54"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
60"		-	-	90.0	90.0	-	-	110.0	110.0	-	-

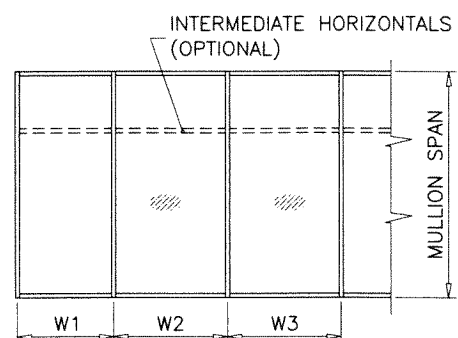
MULLION/JAMB DESIGN LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J1'		JAMBS 'J2'/'J3'		MULLION 'M1'		MULLION 'M2'		CORNER MULL 'C1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	126"	-	-	90.0	90.0	-	-	110.0	110.0	-	-
36"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
42"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
48"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
54"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
57"		-	-	90.0	90.0	-	-	105.7	105.7	-	-
30"	132"	-	-	90.0	90.0	-	-	110.0	110.0	-	-
36"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
42"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
48"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
54"	138"	-	-	90.0	90.0	-	-	101.7	101.7	-	-
30"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
36"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
42"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
48"	145-3/4"	-	-	90.0	90.0	-	-	104.7	104.7	-	-
51"		-	-	90.0	90.0	-	-	98.5	98.5	-	-
30"		-	-	90.0	90.0	-	-	110.0	110.0	-	-
36"	145-3/4"	-	-	90.0	90.0	-	-	110.0	110.0	-	-
42"		-	-	90.0	90.0	-	-	107.2	107.2	-	-
48"	145-3/4"	-	-	90.0	90.0	-	-	93.8	93.8	-	-



Ix IN^4	Sx IN^3		Ix IN^4	Sx IN^3
121.121	3.776		12.121	3.776
		ALUMINUM	3.7969	1.6875
		STEEL		
		TOTAL	23.132	
		Ix ALUM + Ix STL X 2.9		

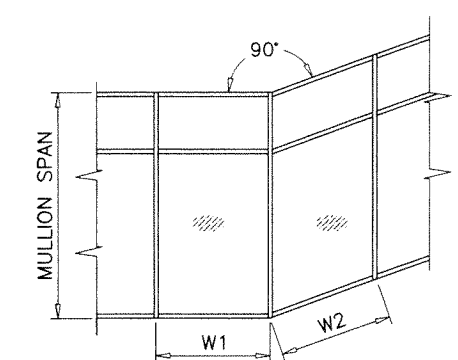


Ix IN^4	Sx IN^3		Ix IN^4	Sx IN^3
14.081	4.4616		27.654	6.8265
3.7969	1.6875			
		ALUMINUM		
		STEEL		
		TOTAL	25.092	
		Ix ALUM + Ix STL X 2.9		



WIDTH (W) = W1  
AT FRAME JAMB

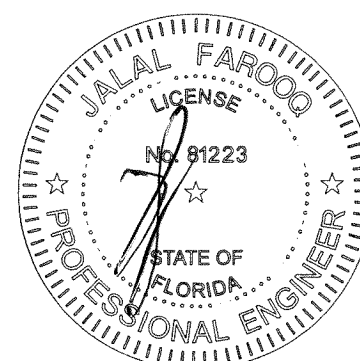
WIDTH (W) =  $\frac{W2 + W3}{2}$   
AT FRAME MULLION



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

**PRODUCT REVISED**  
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By: *Manuel Perez*  
Miami-Dade Product Control

SEP 22 2023



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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HP3060 ALUM. WINDOW WALL SYSTEM (S.M.I.)

**TECNOGLASS, LLC**  
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revisions:

no	date	by	description
E	08.05.14		MANUF. NAME REV.
F	05.13.16		UPDATED TO 2014 FBC
G	10.04.17		REV. PER RER COMMENTS
H	11.20.20		UPDATED TO 2020 FBC
I	09.20.23		NO CHANGE THIS SHEET

date: 03-22-04

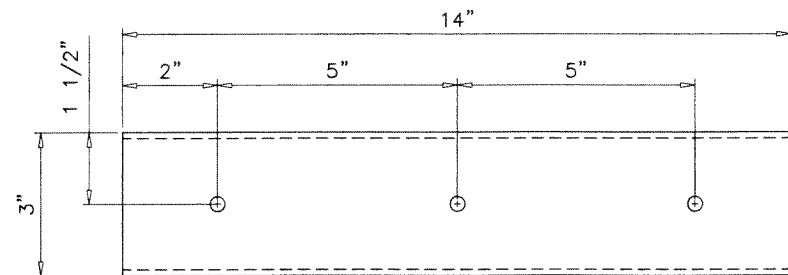
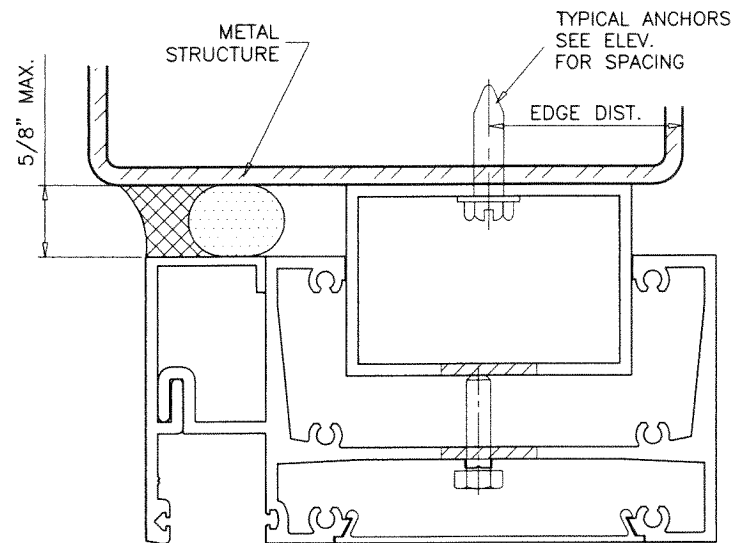
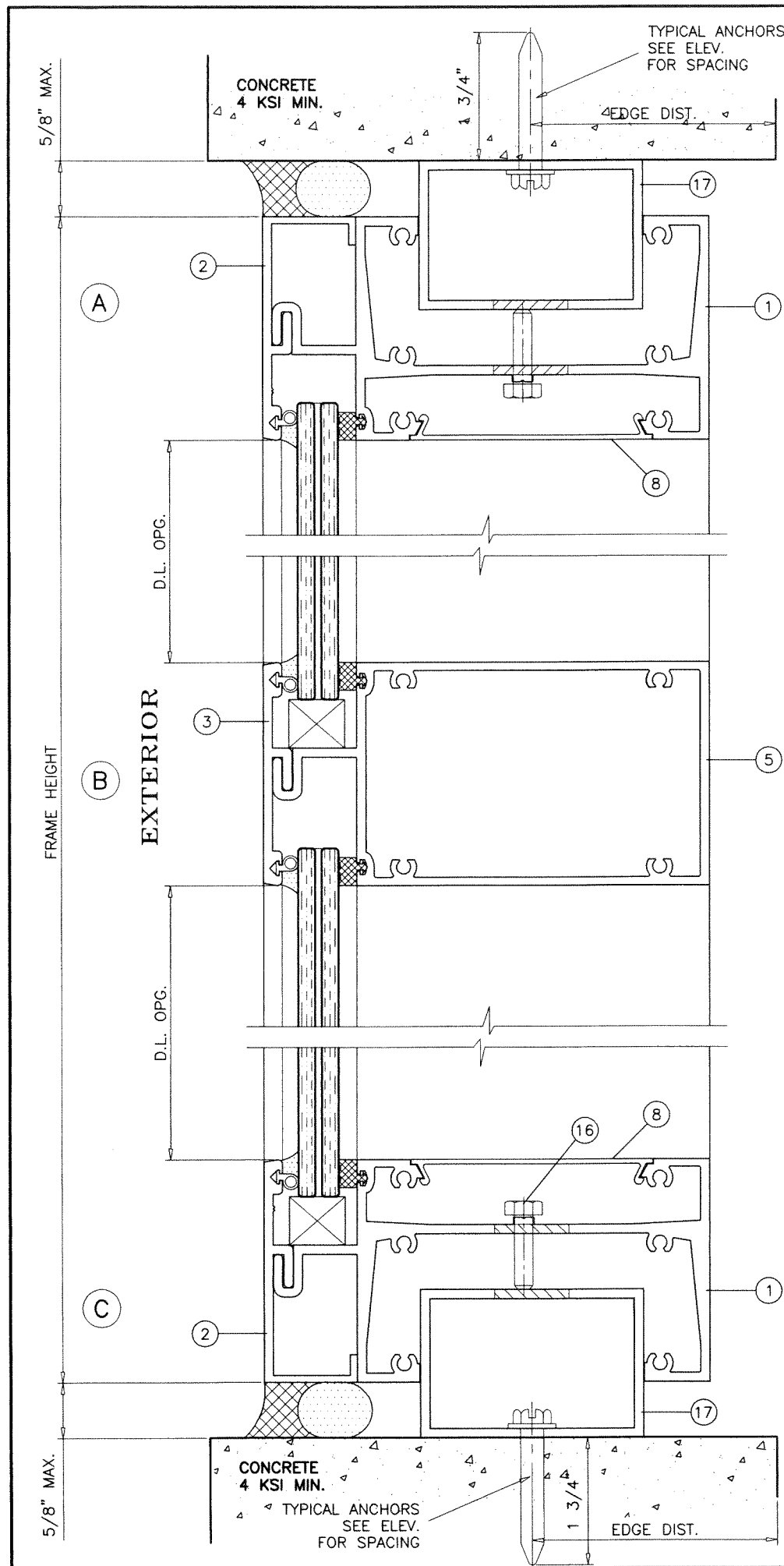
scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no. **W04-25**

sheet **3** of **7**



ANCHOR TUBE HOLES PATTERN

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

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

**TYPE 'A'—** 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

**TYPE 'B'—** 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)  
INTO METAL STRUCTURES (HEAD/SILL)  
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**TYPICAL EDGE DISTANCE**

INTO CONCRETE = 3-1/8" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

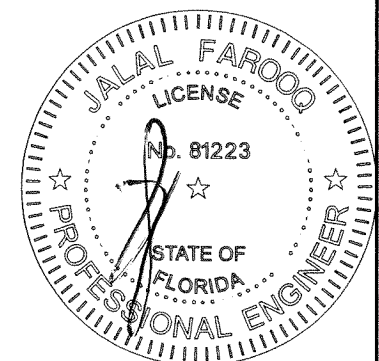
CONCRETE AT HEAD OR SILL f'c = 4000 PSI MIN.

**SEALANTS:**

ALL FRAME CORNERS AND MULLION SEAMS SEALED  
WITH SILICONE.

**PRODUCT REVISED**  
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**By: Manuel Perez**  
**Miami-Dade Product Control**

SEP 22 2023



HP3060 ALUM. WINDOW WALL SYSTEM (S.M.I.)

**TECNOGLASS, LLC**

3550 N.W. 49 STREET  
MIAMI, FL. 33142

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revisions:	no	date	by	description
	E	08.05.14		MANUF. NAME REV.
	F	05.13.16		UPDATED TO 2014 FBC
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date: 03-22-04

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

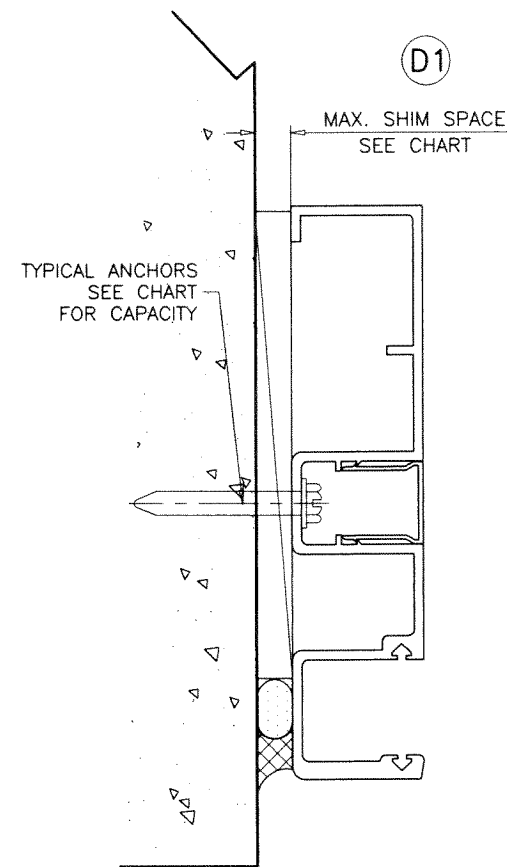
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W04-25

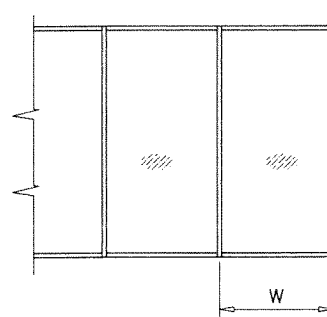
sheet 4 of 7

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W04-25RC

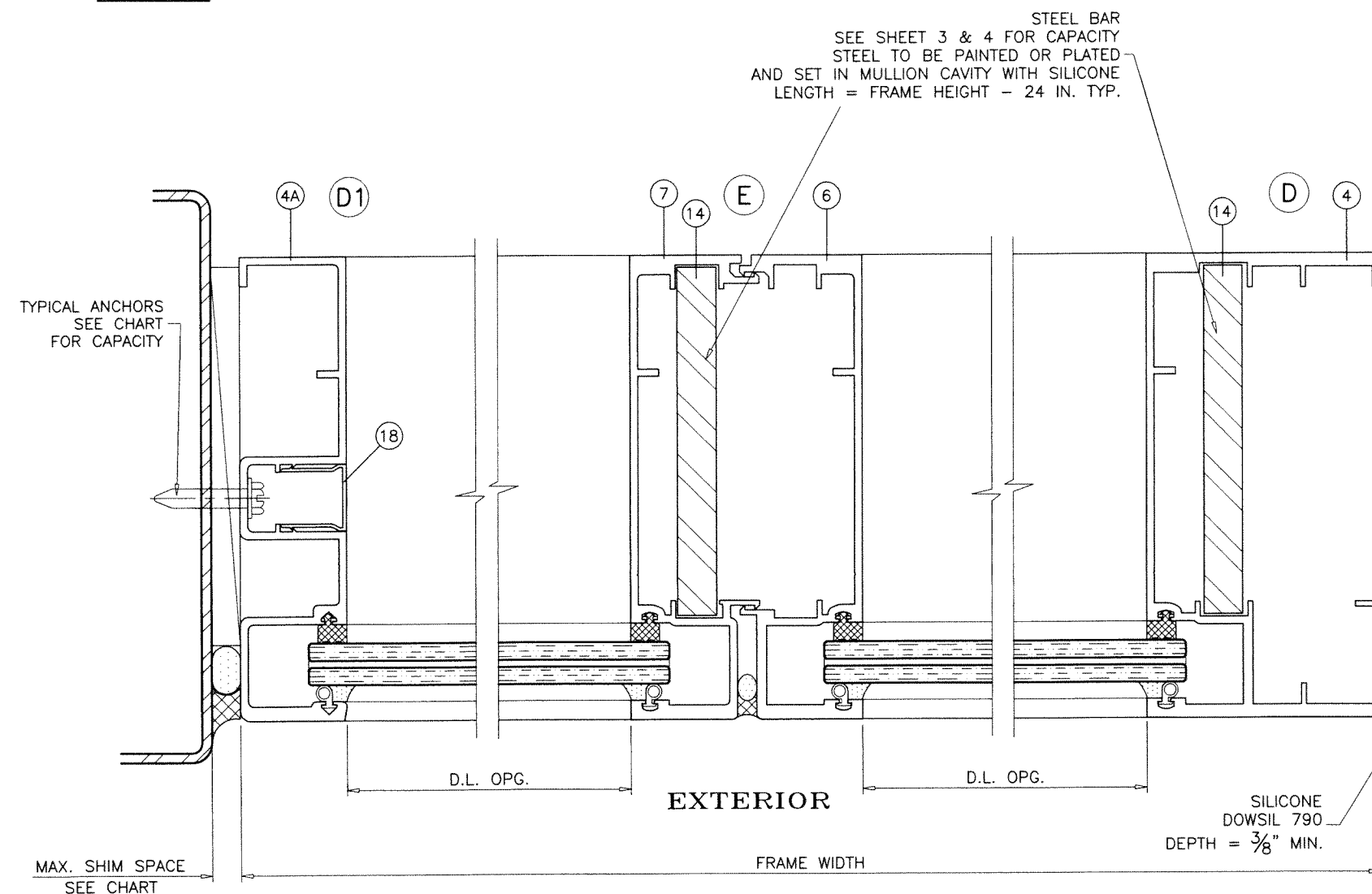
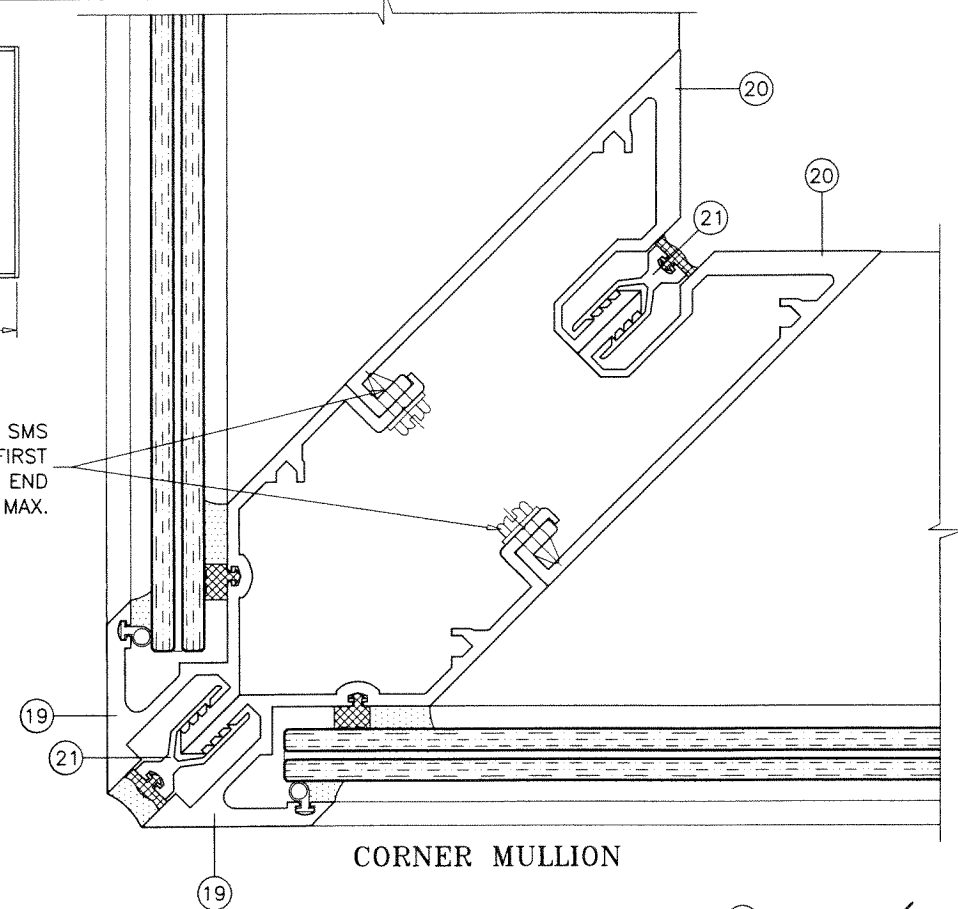




WIDTH (W)	3/8" MAX. SHIM SPACE				1/4" MAX. SHIM SPACE		
	12" O.C.		8" O.C.		12" O.C.		8" O.C.
	TYPE 'A'	TYPE 'B'	TYPE 'A'	TYPE 'B'	TYPE 'A'	TYPE 'B'	TYPE 'A'
	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
42"	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48"	130.6	140.0	140.0	140.0	140.0	140.0	140.0
54"	116.0	140.0	140.0	140.0	140.0	140.0	140.0
57"	109.9	140.0	140.0	140.0	140.0	140.0	140.0
60"	104.4	140.0	140.0	140.0	140.0	140.0	140.0
63"	99.5	140.0	140.0	140.0	140.0	140.0	140.0
66"	94.9	135.1	140.0	140.0	134.5	140.0	140.0
69"	90.8	129.3	140.0	140.0	128.7	140.0	140.0
72"	87.0	123.9	130.6	140.0	123.3	140.0	140.0



#14 X 1/2" SMS  
AT 3" O.C. FOR FIRST  
24" FROM EACH END  
REST AT 6" O.C. MAX.

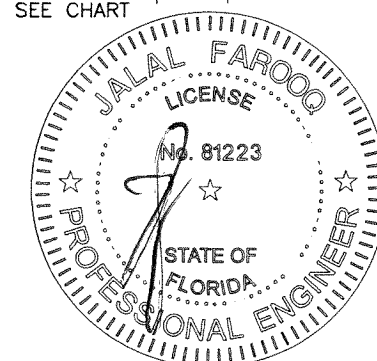


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
UPTO 120"	3/8"	3/4"
145-3/4"	1/2"	3/4"

**PRODUCT REVISED**  
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Miami-Dade Product Control

SEP 22 2023

MIN. & MAX. GAP  
SEE CHART



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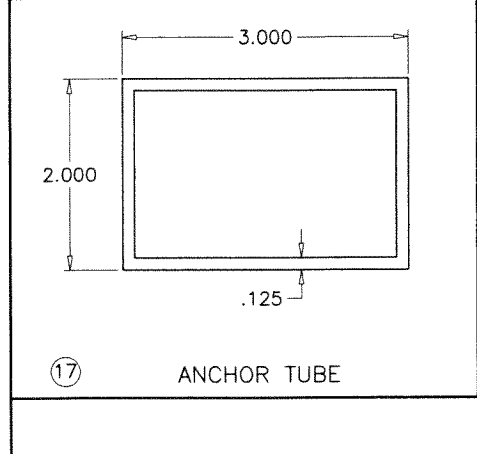
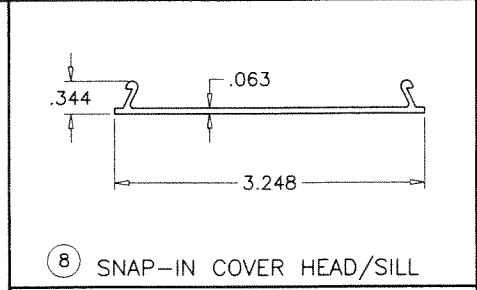
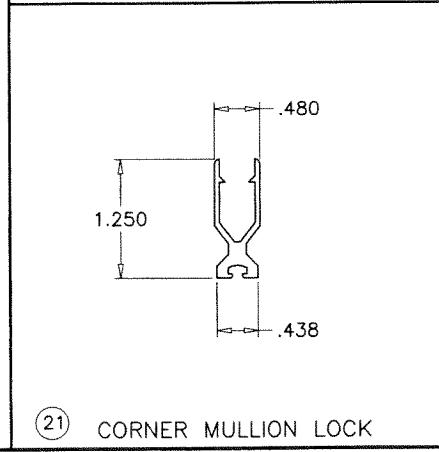
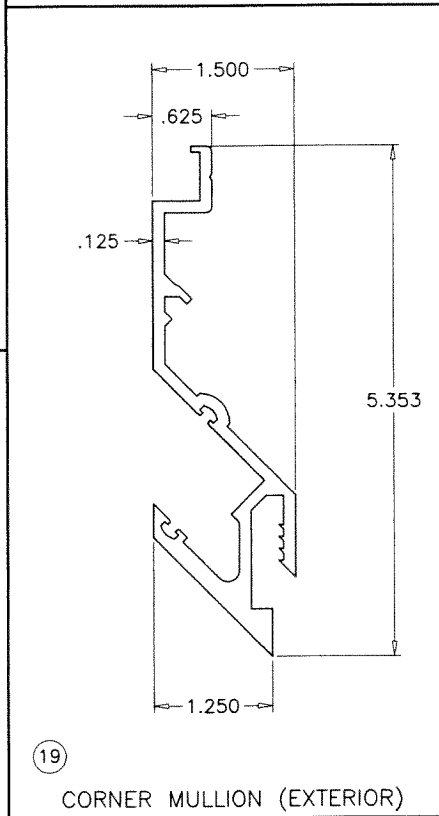
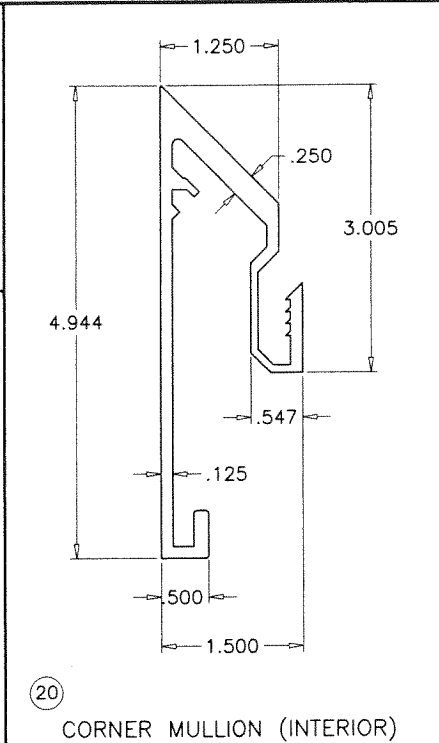
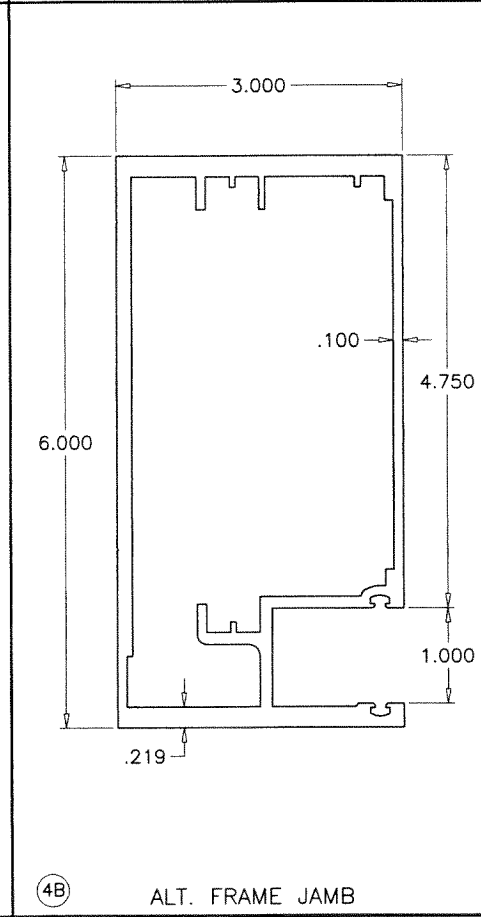
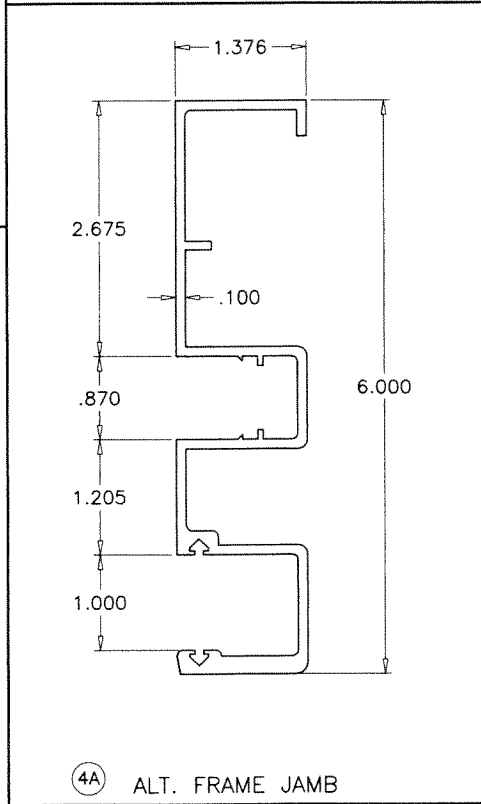
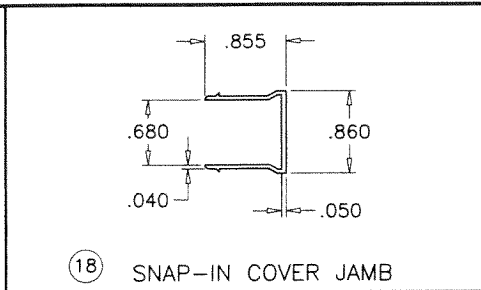
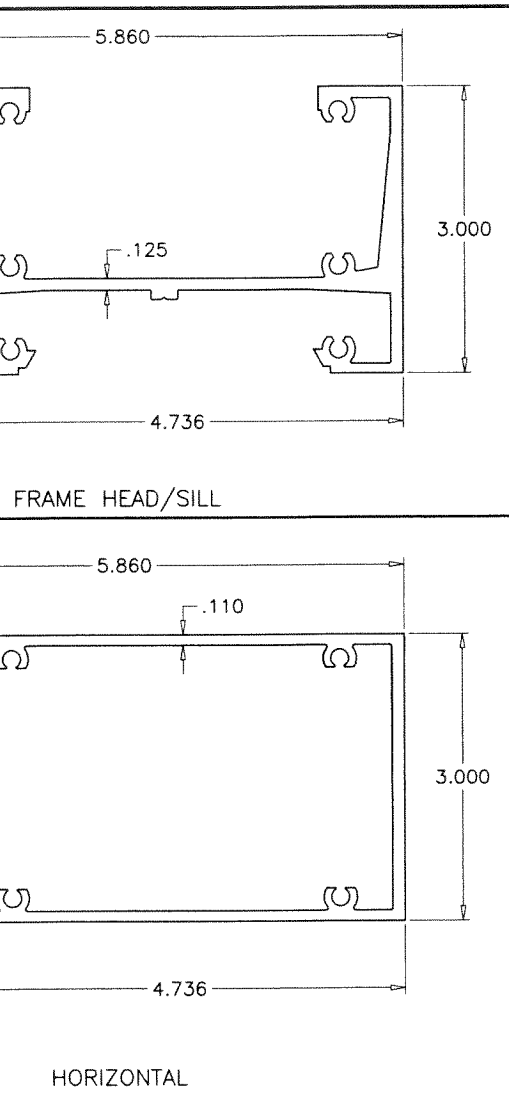
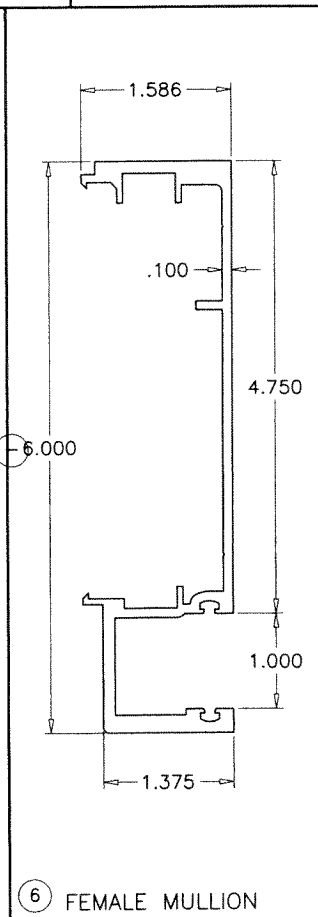
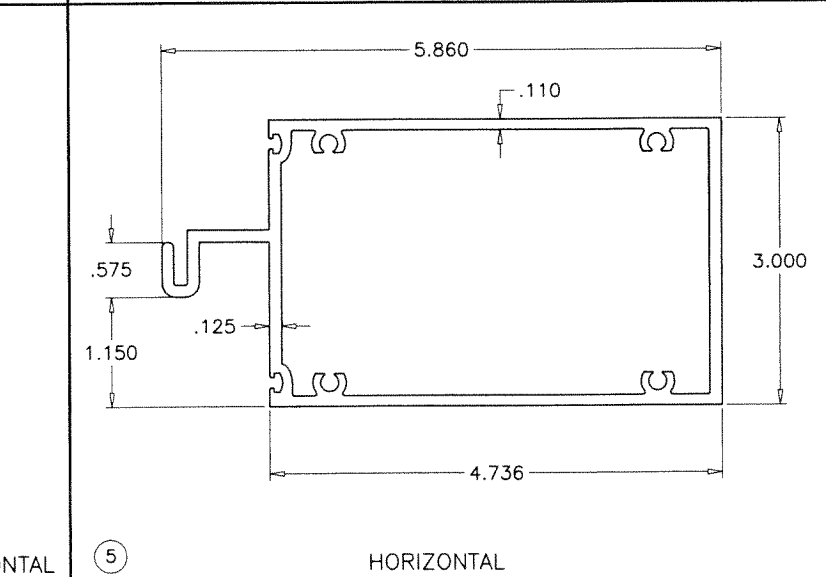
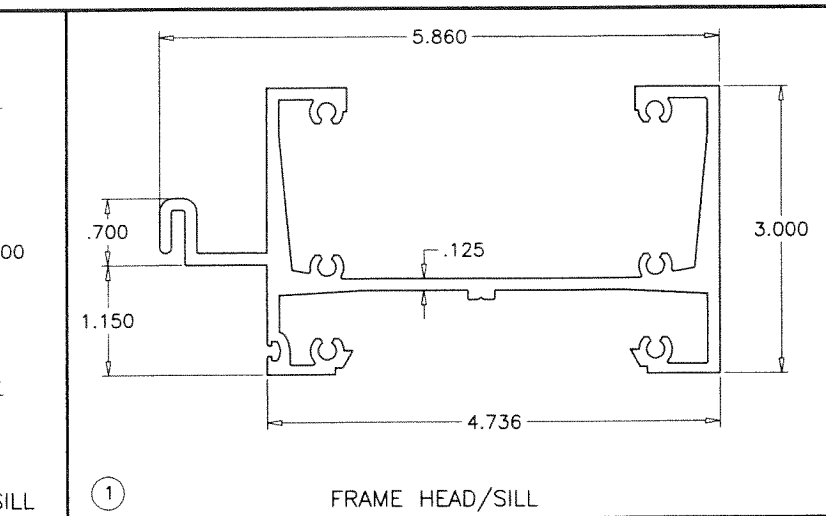
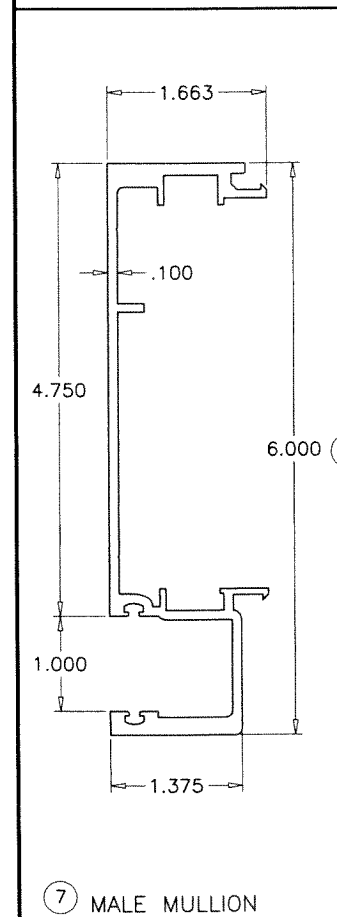
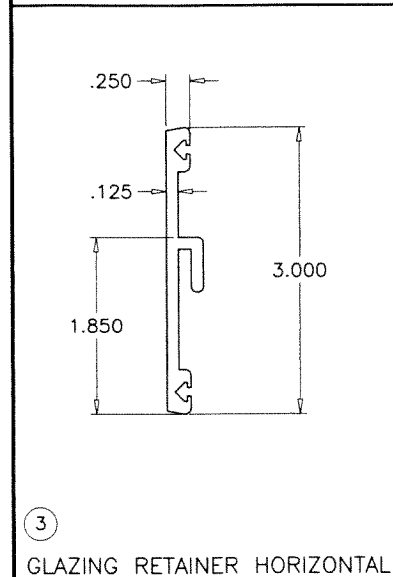
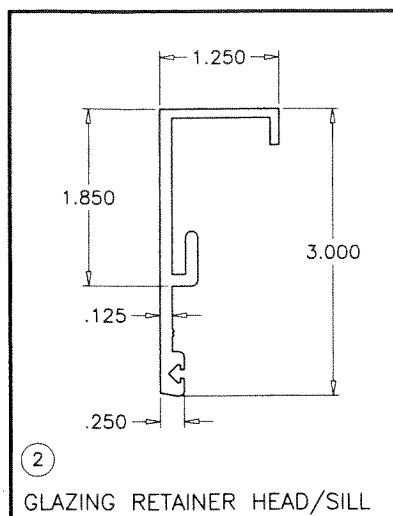
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	F	05.13.16		UPDATED TO 2014 FBC
	G	10.04.17		NO CHANGE THIS SHEET
	H	11.20.20		UPDATED TO 2020 FBC
	I	09.20.23		NO CHANGE THIS SHEET

date: 03-22-04  
scale: 1/2" = 1"  
dr. by: TARIO  
chk. by:

drawing no.  
**W04-25**

sheet 5 of 7

STORE\W04-25RC



**PRODUCT REVISED**  
 As complying with the Florida Building Code  
 NOA-No. **23-1012.13**  
 Expiration Date: **07/01/2025**  
 By: *Manuel Perez*  
 Miami-Dade Product Control

SEP 22 2023

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

HP3060 ALUM. WINDOW WALL SYSTEM (S.M.I.)

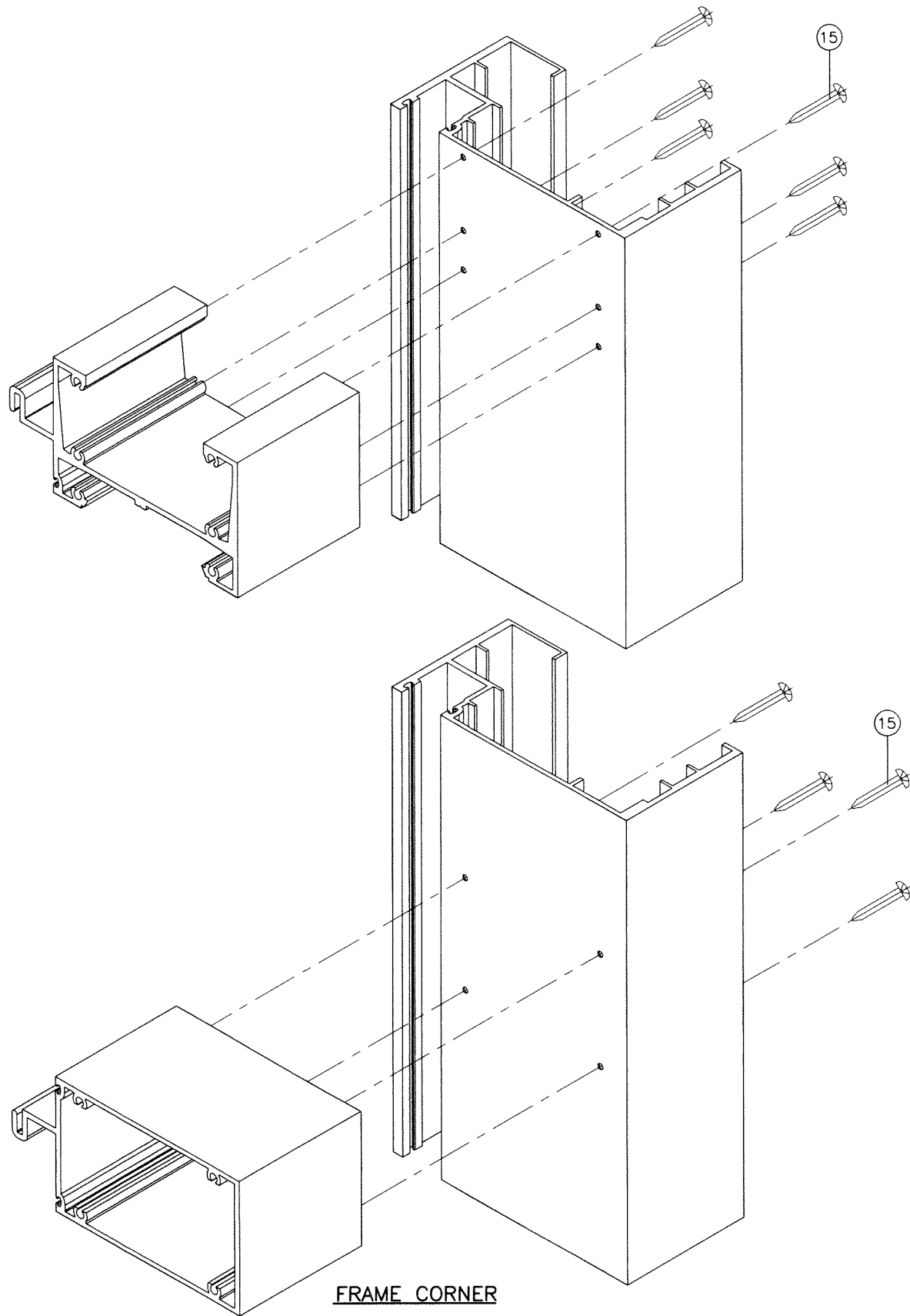
**TECNOGLASS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
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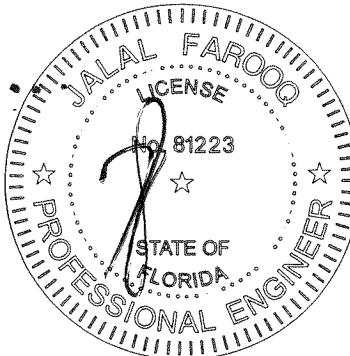
drawing no. **W04-25**  
 sheet 6 of 7





ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	HP3060-051	AS REQD.	FRAME HEAD/SILL	6005-T5	-
2	FX345-006	AS REQD.	GLAZING RETAINER (HEAD/SILL)	6063-T6	-
3	FX345-005	AS REQD.	GLAZING RETAINER (HORIZONTAL)	6063-T6	-
4	HP3060-036	AS REQD.	FRAME JAMB	6063-T6	-
4A	HP3060-022	AS REQD.	ALT. FRAME JAMB	6063-T6	-
4B	HP3060-068	AS REQD.	ALT. FRAME JAMB	6063-T6	-
5	HP3060-041	AS REQD.	HORIZONTAL	6063-T6	-
6	HP3060-037	AS REQD.	FEMALE MULLION	6063-T6	-
7	HP3060-038	AS REQD.	MALE MULLION	6063-T6	-
8	HP3060-011	AS REQD.	SNAP-IN COVER HEAD/SILL	6063-T6	-
9	V-003	AS REQD.	GLAZING GASKET	TPE	MELTPPOINT, DUROMETER 75±5 SHORE A
10	V-009	AS REQD.	BULB WEATHERSTRIPPING	TPE	MELTPPOINT, DUROMETER 75±5 SHORE A
11	-	2/ LITE	SETTING BLOCKS (3/4" X 5/8" X 4")	EPDM	LOWE, DUROMETER 80±5 SHORE A
12	-	-	SEALANT DOW CORNING 791	SILICONE	-
13	-	-	SEALANT DOW CORNING 795	SILICONE	-
14	-	AS REQD.	REINFORCING BAR (1/2" X 4-1/2")	STEEL	SILICONED IN PLACE
15	-	AS REQD.	FRAME ASSEMBLY SCREWS	-	# 12 X 1-1/4" PH SMS
16	-	AS REQD.	LEVELING SCREWS	-	1/4-20 X 3/4" HH MS
17	-	AS REQD.	ANCHOR TUBE (2 X 3 X 1/8")	-	14" LONG
18	245FX-011	AS REQD.	SNAP-IN COVER JAMB	6063-T5	-
19	HP3060-057	AS REQD.	CORNER MULLION (EXTERIOR)	6063-T6	-
20	HP3060-058	AS REQD.	CORNER MULLION (INTERIOR)	6063-T6	-
21	HP3060-059	AS REQD.	CORNER MULLION LOCK	6063-T6	-

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HP3060 ALUM. WINDOW WALL SYSTEM (S.M.I.)

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drawing no.  
**W04-25**  
sheet 7 of 7