



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-3070" Aluminum Window Wall System – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W04-26**, titled "HP 3070 Alum. Window Wall System (S.M.I.)", sheets 1 through 11, 11.1 and 12 of 12, dated 03/23/04, with revision **L** 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: 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.

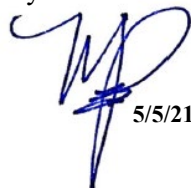
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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** NOA No. **18-0821.05** 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.**




5/5/21

NOA No. 21-0317.09
Expiration Date: July 01, 2024
Approval Date: May 13, 2021
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

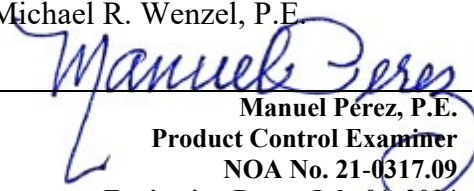
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 04-0512.02)
2. Drawing No. **W04-26**, titled "HP3070 Alum. Window Wall System (S.M.I.)", sheets 1 through 11, 11.1 and 12 of 12, dated 03/23/04, with revision **K** dated 10/03/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 17-0505.07)

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
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. 09-0812.16)
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.
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: **FTL-5189**, dated 05/04/07, **FTL-5319** and **FTL-5320**, both dated 07/05/07, all signed and sealed by Carlos S. Rionda, P.E. *(Submitted under NOA No. 07-1019.02)*
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.
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5108**, dated 07/05/07, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 07-1019.02)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0317.09
Expiration Date: July 01, 2024
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

B. TESTS (CONTINUED)

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) Large 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 Fenestration Testing Laboratory, Inc., Test Reports No.: **FTL-4981**, dated 10/31/06 and **FTL-4992**, dated 06/20/06, both signed and sealed by Edmundo Largaespada, P.E. *(Submitted under NOA No. 07-1019.02)*
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) Large 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 Fenestration Testing Laboratory, Inc., Test Reports No.: **FTL-3928**, dated 10/08/03 and **FTL-3970** dated 11/10/03, both signed and sealed by Edmundo J. Largaespada, P.E. *(Submitted under NOA No. 04-0512.02)*

C. CALCULATIONS

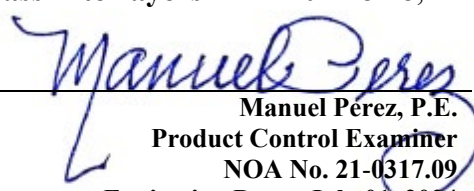
1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 04/22/16 and updated on 09/22/17 to comply with **FBC 6th Edition (2017)**, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. *(Submitted under NOA No. 17-0505.07)*
2. 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. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.
2. 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.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0317.09
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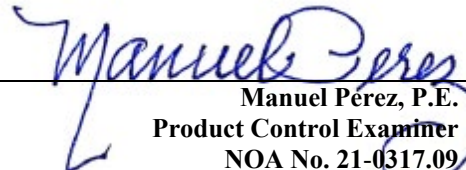
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)
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. 17-0505.07)
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. 14-0807.12)
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. **12-0330.11**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
(Submitted under NOA No. 14-0807.12)
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. 14-0807.12)
5. Laboratory compliance letters prepared by Fenestration Testing Laboratory, Inc., for the following Test Reports No.:
 - I. **FTL-5739**, dated 01/20/09, **FTL-5189**, dated 05/04/07, **FTL-5319**, dated 07/05/07 and **FTL-5320**, dated 07/05/07, all signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA's No. 09-0812.16 and 07-1019.02)
 - II. **FTL-5108**, dated 02/02/07, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 07-1019.02)
 - III. **FTL-4981**, dated 10/31/06, **FTL-4992**, dated 06/20/06, **FTL-3928**, dated 10/08/03 and **FTL-3970**, dated 11/10/03, all signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA's No. 07-1019.02 and 04-0512.02)
6. Proposal issued by Product Control, dated 10/28/08, signed by Jaime D. Gascon, P.E.
(Submitted under NOA No. 09-0812.16)

F. OTHERS

1. Notice of Acceptance No. **17-0505.07** issued to Tecnoglass, LLC, for their Series "HP-3070" Aluminum Window Wall System – S.M.I., approved on 01/25/18 and expiring on 07/01/19.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0317.09
Expiration Date: July 01, 2024
Approval Date: May 13, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W04-26**, titled “HP3070 Alum. Window Wall System (S.M.I.)”, sheets 1 through 11, 11.1 and 12 of 12, dated 03/23/04, with revision **L** dated 11/20/20, 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 5th Edition (2014)**, dated 04/22/16, updated on 09/22/17 to comply with **FBC 6th Edition (2017)** and further 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.

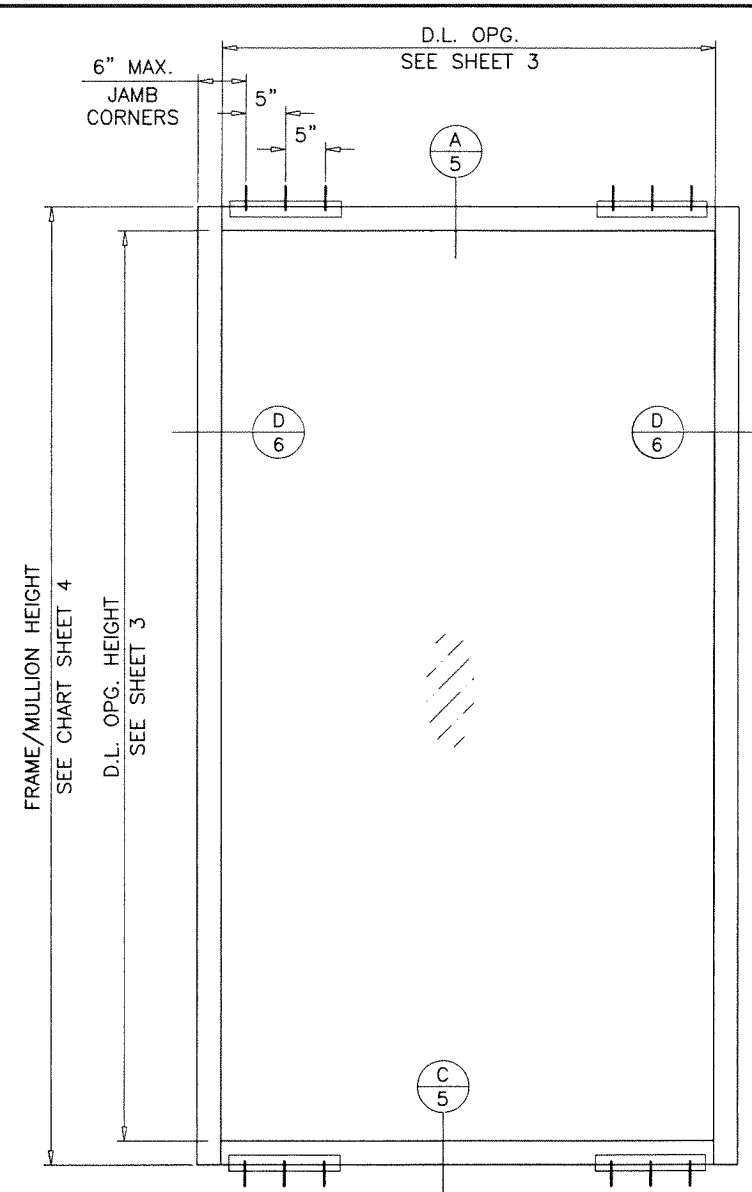
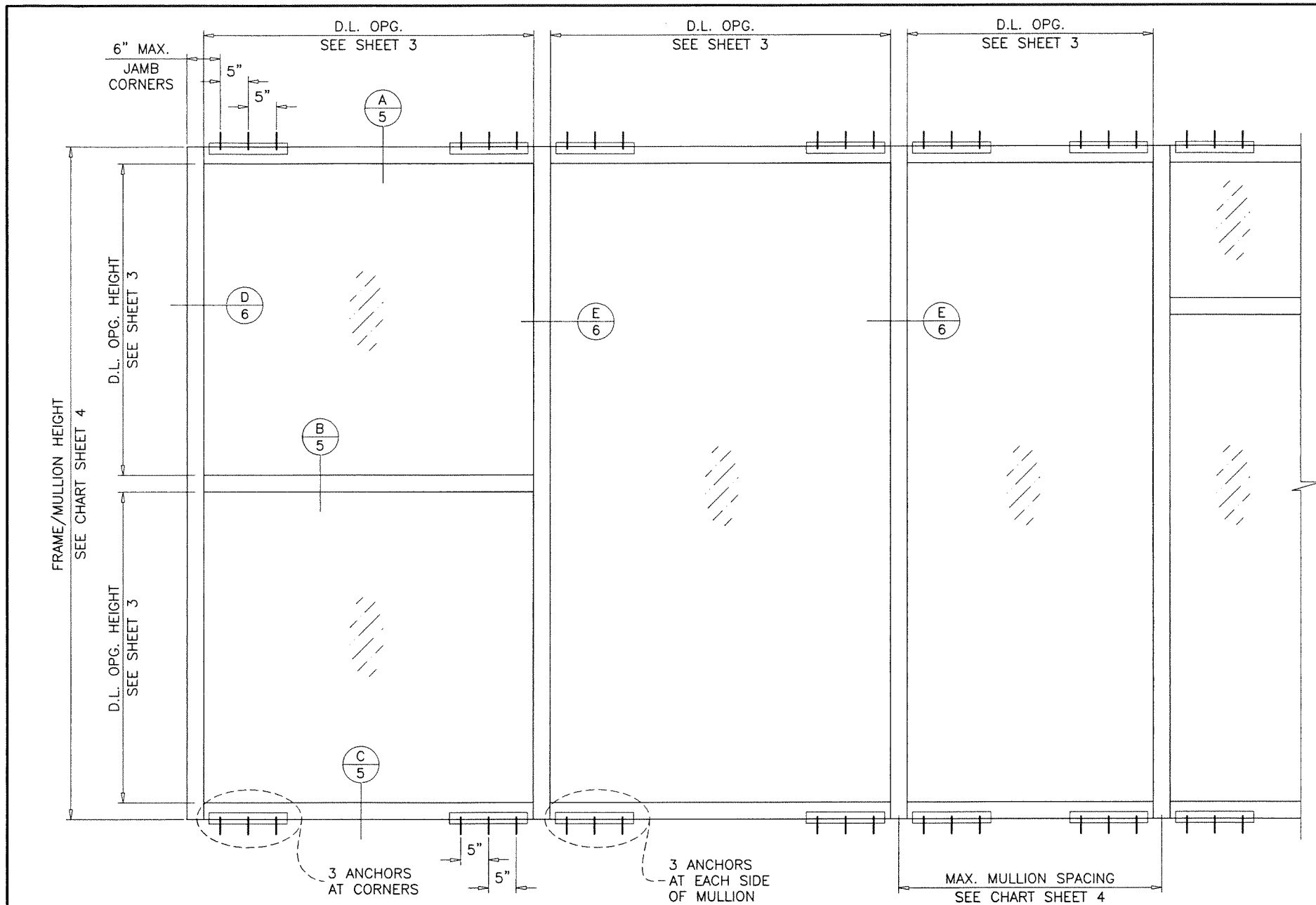
F. STATEMENTS

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. **18-0821.05**, issued to Tecnoglass, LLC., for their Series “HP-3070” Aluminum Window Wall System – S.M.I.”, approved on 09/27/18 and expiring on 07/01/24.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0317.09
Expiration Date: July 01, 2024
Approval Date: May 13, 2021



HP3070 ALUM. WINDOW WALL SYSTEM (S.M.I.)

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPR'D SMALL MISSILE IMPACT RESISTANT DOORS. FOR CONNECTION DETAILS TO MULLION SEE SEPARATE DOOR NOA. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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)'.

TYPICAL ELEVATIONS

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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

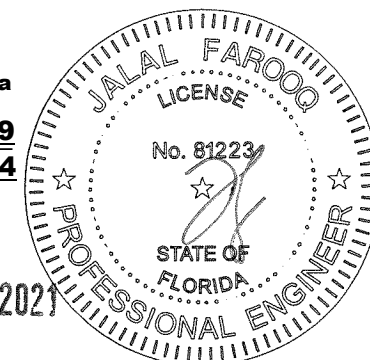
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 4. 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', 'D' & 'F' COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS
SMALL MISSILE IMPACT

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0317.09**
Expiration Date: **07/01/2024**
By: *Manuel Perez*
Miami-Dade Product Control

MAR 11 2021



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

STORE/W04-26RC

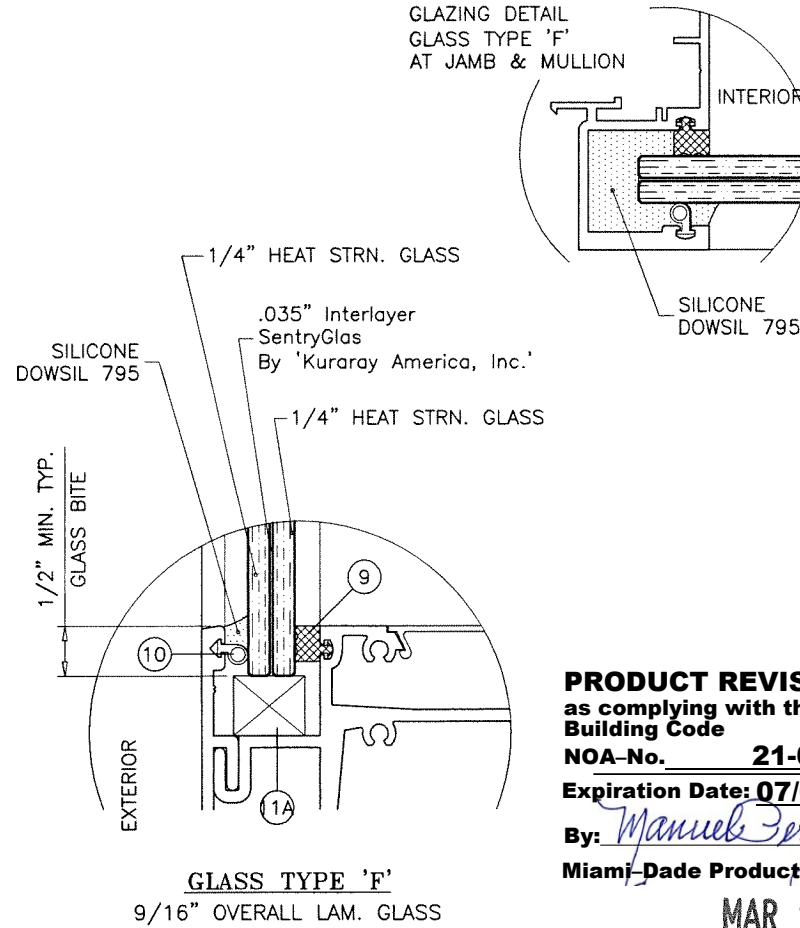
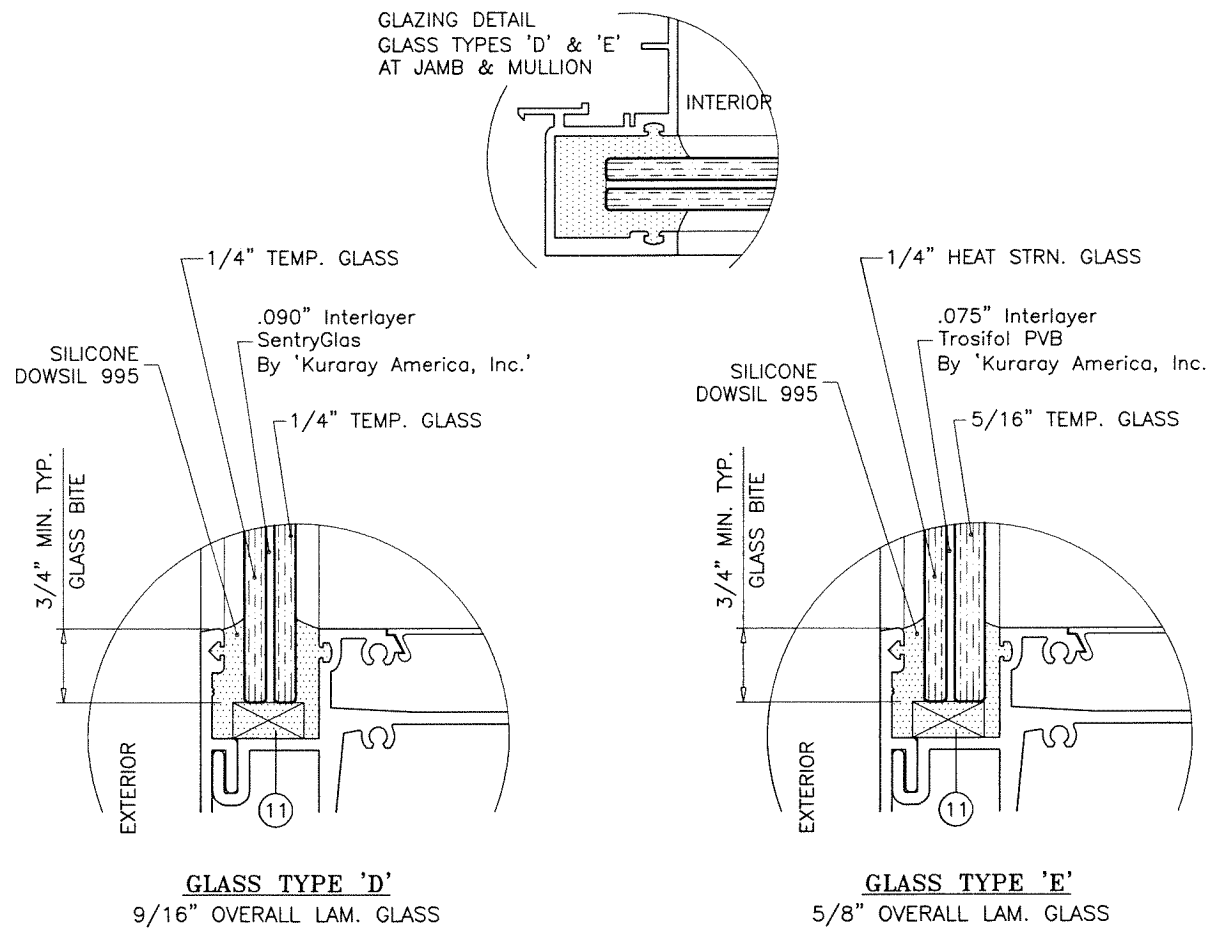
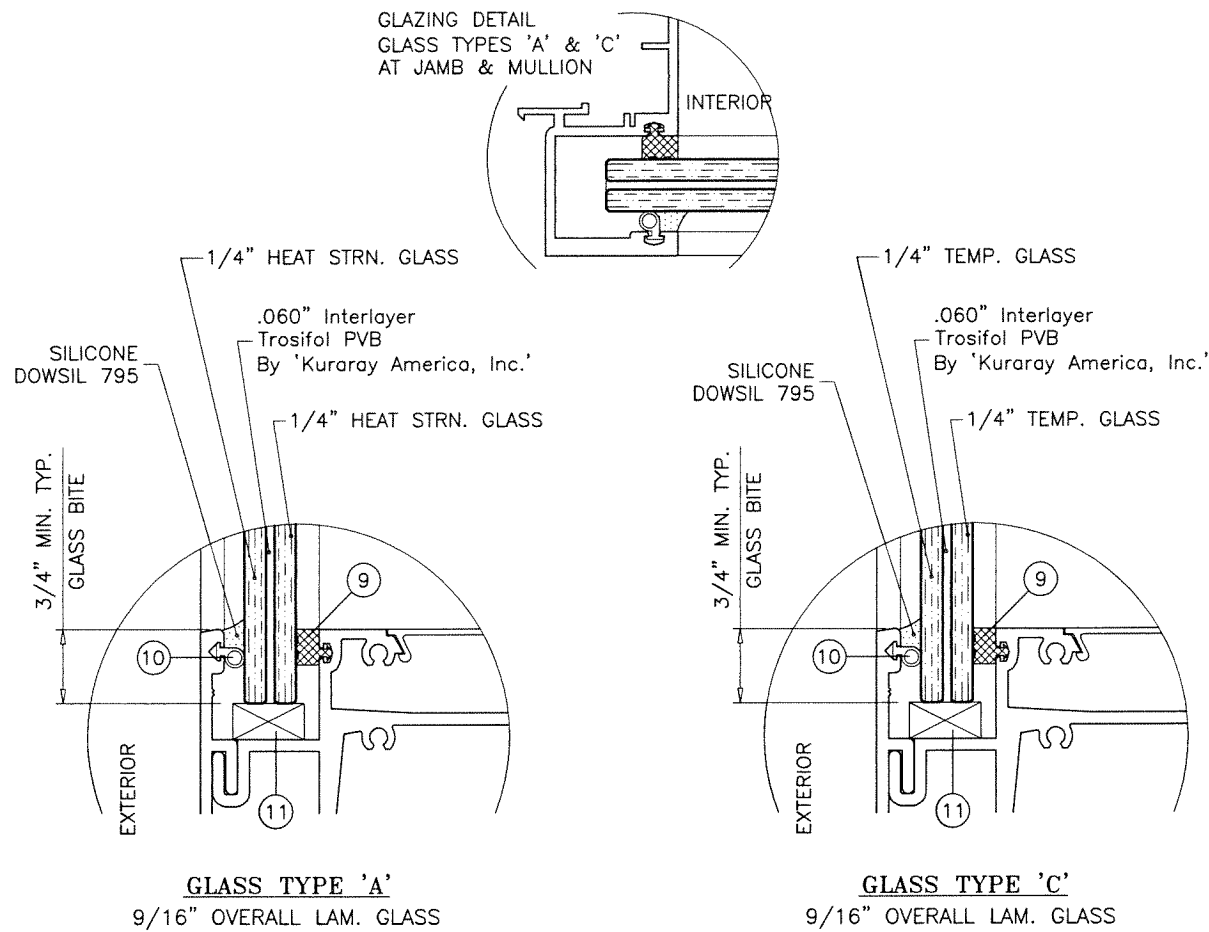
HP3070 ALUM. WINDOW WALL SYSTEM (S.M.I.)

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

revisions:	
no	date by description
I	08.01.14 MANUF. NAME REV.
J	05.13.16 UPDATED TO 2014 FBC
K	10.03.17 REV. PER PER COMMENTS
L	11.20.20 UPDATED TO 2020 FBC

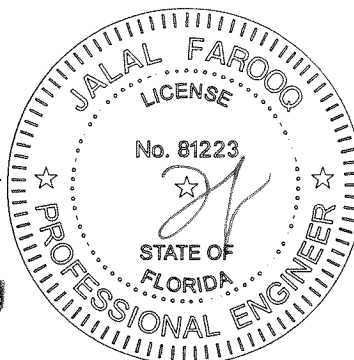
date: 03-23-04
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W04-26
sheet 1 of 12



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	HP3060-044	AS REQD.	FRAME JAMB	6063-T6	-
4A	HP3060-066	AS REQD.	CLOSED FRAME JAMB	6005-T6	-
5	HP3060-041	AS REQD.	HORIZONTAL	6063-T6	-
6	HP3060-042	AS REQD.	FEMALE MULLION	6063-T6	-
7	HP3060-043	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 3/8" X 4")	EPDM	LOWE, DUROMETER 80±5 SHORE A
11A	-	2/ LITE	SETTING BLOCKS (3/4" X 5/8" X 4")	EPDM	LOWE, DUROMETER 80±5 SHORE A
12	-	-	SEALANT DOW CORNING 795	SILICONE	-
13	-	-	-	-	-
14	-	AS REQD.	REINFORCING BAR (1/2" X 5")	STEEL	SILICONED IN PLACE
15	-	AS REQD.	FRAME ASSEMBLY SCREWS	-	#12 X 1-1/4" PH SMS ST/ST
16	-	AS REQD.	LEVELING SCREWS	-	1/4-20 X 3/4" HH MS ST/ST
17	-	AS REQD.	ANCHOR TUBE (2 X 3 X 1/8")	6063-T6	14" LONG
18	-	AS REQD.	FILLER TUBE	ALUMINUM	-
19	-	AS REQD.	ALUM PLATE (3 X 7 X 3/8")	ALUMINUM	-
20	-	3/ PLATE	ALUM PLATE FASTENERS	-	#14 X 1" FH SELF DRILLING SCREWS
21	HP3060-065	AS REQD.	GLAZING POCKET COVER	6063-T6	-

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0317.09**
Expiration Date: **07/01/2024**
By: *Manuel Perez*
Miami-Dade Product Control
MAR 11 2021



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

HP3070 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
1	08.01.14	MANUF.	NAME REV.
J	05.13.16	UPDATED TO 2014 FBC	
K	10.03.17	REV. PER PER COMMENTS	
L	11.20.20	UPDATED TO 2020 FBC	

date: 03-23-04	scale: 1/2" = 1"
dr. by: TARIQ	chk. by:

drawing no.
W04-26
sheet 2 of 12

GLASS DESIGN LOAD CAPACITY – PSF							GLASS DESIGN LOAD CAPACITY – PSF							GLASS DESIGN LOAD CAPACITY – PSF						
NOMINAL DIMS		GLASS TYPE 'A'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'	GLASS TYPE 'F'	NOMINAL DIMS		GLASS TYPE 'A'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'	GLASS TYPE 'F'	NOMINAL DIMS		GLASS TYPE 'A'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'	GLASS TYPE 'F'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	60"	160.0	162.0	162.0	162.0	160.0	24"	78"	160.0	162.0	162.0	162.0	160.0	24"	102"	160.0	162.0	162.0	162.0	160.0
27"		160.0	162.0	162.0	162.0	160.0	27"		160.0	162.0	162.0	162.0	160.0	27"		160.0	162.0	162.0	162.0	160.0
30"		160.0	162.0	162.0	162.0	160.0	30"		160.0	162.0	162.0	162.0	160.0	30"		160.0	162.0	162.0	162.0	160.0
33"		160.0	162.0	162.0	162.0	160.0	33"		160.0	162.0	162.0	162.0	160.0	33"		160.0	162.0	162.0	162.0	160.0
36"		160.0	162.0	162.0	162.0	160.0	36"		160.0	162.0	162.0	162.0	160.0	36"		150.0	162.0	162.0	162.0	160.0
39"		160.0	162.0	162.0	162.0	160.0	39"		160.0	162.0	162.0	162.0	160.0	39"		150.0	–	162.0	162.0	160.0
42"		160.0	162.0	162.0	162.0	160.0	42"		160.0	162.0	162.0	162.0	160.0	42"		150.0	–	162.0	162.0	150.0
45"		160.0	162.0	162.0	162.0	160.0	45"		160.0	162.0	162.0	162.0	160.0	45"		143.0	–	162.0	–	150.0
48"		160.0	162.0	162.0	162.0	160.0	48"		150.0	162.0	162.0	162.0	160.0	48"		134.0	–	–	–	141.8
51"		160.0	162.0	162.0	162.0	160.0	51"		150.0	–	162.0	162.0	160.0	24"	108"	160.0	162.0	162.0	162.0	160.0
54"		160.0	162.0	162.0	162.0	160.0	54"		150.0	–	162.0	162.0	150.0	27"		160.0	162.0	162.0	162.0	160.0
57"		160.0	162.0	162.0	162.0	160.0	57"		150.0	–	162.0	162.0	150.0	30"		160.0	162.0	162.0	162.0	160.0
60"		160.0	162.0	162.0	162.0	160.0	60"		145.0	–	–	–	150.0	33"		160.0	162.0	162.0	162.0	160.0
63"		150.0	162.0	162.0	162.0	160.0	63"		141.0	–	–	–	150.0	36"		150.0	162.0	162.0	162.0	160.0
66"		150.0	–	162.0	162.0	160.0	24"	84"	160.0	162.0	162.0	162.0	160.0	39"		150.0	–	162.0	162.0	150.0
69"		150.0	–	162.0	162.0	150.0	27"		160.0	162.0	162.0	162.0	160.0	42"		147.0	–	162.0	162.0	150.0
72"		150.0	–	162.0	162.0	150.0	30"		160.0	162.0	162.0	162.0	160.0	45"		136.0	–	–	–	143.6
24"	66"	160.0	162.0	162.0	162.0	160.0	33"		160.0	162.0	162.0	162.0	160.0	24"	114"	160.0	–	162.0	162.0	160.0
27"		160.0	162.0	162.0	162.0	160.0	36"		160.0	162.0	162.0	162.0	160.0	27"		160.0	–	162.0	162.0	160.0
30"		160.0	162.0	162.0	162.0	160.0	39"		160.0	162.0	162.0	162.0	160.0	30"		160.0	–	162.0	162.0	160.0
33"		160.0	162.0	162.0	162.0	160.0	42"		160.0	162.0	162.0	162.0	160.0	33"		150.0	–	162.0	162.0	160.0
36"		160.0	162.0	162.0	162.0	160.0	45"		160.0	162.0	162.0	162.0	160.0	36"		150.0	–	162.0	162.0	160.0
39"		160.0	162.0	162.0	162.0	160.0	48"		150.0	–	162.0	162.0	160.0	39"		150.0	–	162.0	162.0	150.0
42"		160.0	162.0	162.0	162.0	160.0	51"		150.0	–	162.0	162.0	150.0	42"		141.0	–	–	–	148.2
45"		160.0	162.0	162.0	162.0	160.0	54"		147.0	–	162.0	162.0	150.0	24"	120"	160.0	–	162.0	162.0	160.0
48"		160.0	162.0	162.0	162.0	160.0	57"		141.0	–	–	–	150.0	27"		160.0	–	162.0	162.0	160.0
51"		160.0	162.0	162.0	162.0	160.0	24"	90"	160.0	162.0	162.0	162.0	160.0	30"		160.0	–	162.0	162.0	160.0
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57"		150.0	162.0	162.0	162.0	160.0	30"		160.0	162.0	162.0	162.0	160.0	36"		150.0	–	162.0	162.0	150.0
60"		150.0	–	162.0	162.0	160.0	33"		160.0	162.0	162.0	162.0	160.0	39"		150.0	–	–	–	150.0
63"		150.0	–	162.0	162.0	150.0	36"		160.0	162.0	162.0	162.0	160.0	42"		–	–	–	–	142.9
66"		150.0	–	162.0	162.0	150.0	39"		160.0	162.0	162.0	162.0	160.0	24"	126"	–	–	162.0	162.0	160.0
69"		150.0	–	162.0	–	150.0	42"		150.0	162.0	162.0	162.0	160.0	27"		–	–	162.0	162.0	160.0
72"		147.0	–	–	–	150.0	45"		150.0	–	162.0	162.0	160.0	30"		–	–	162.0	162.0	160.0
24"	72"	160.0	162.0	162.0	162.0	160.0	48"		150.0	–	162.0	162.0	150.0	33"		–	–	162.0	162.0	150.0
27"		160.0	162.0	162.0	162.0	160.0	51"		143.0	–	162.0	–	150.0	36"		–	–	162.0	162.0	150.0
30"		160.0	162.0	162.0	162.0	160.0	54"		137.0	–	–	–	146.4	39"		–	–	–	–	150.0
33"		160.0	162.0	162.0	162.0	160.0	24"	96"	160.0	162.0	162.0	162.0	160.0	24"	96"	160.0	162.0	162.0	162.0	160.0
36"		160.0	162.0	162.0	162.0	160.0	27"		160.0	162.0	162.0	162.0	160.0	27"		160.0	162.0	162.0	162.0	160.0
39"		160.0	162.0	162.0	162.0	160.0	30"		160.0	162.0	162.0	162.0	160.0	30"		160.0	162.0	162.0	162.0	160.0
42"		160.0	162.0	162.0	162.0	160.0	33"		160.0	162.0	162.0	162.0	160.0	33"		160.0	162.0	162.0	162.0	160.0
45"		160.0	162.0	162.0	162.0	160.0	36"		160.0	162.0	162.0	162.0	160.0	36"		160.0	162.0	162.0	162.0	160.0
48"		160.0	162.0	162.0	162.0	160.0	39"		150.0	162.0	162.0	162.0	160.0	39"		150.0	162.0	162.0	162.0	160.0
51"		150.0	162.0	162.0	162.0	160.0	42"		150.0	–	162.0	162.0	160.0	42"		150.0	–	162.0	162.0	150.0
54"		150.0	162.0	162.0	162.0	160.0	45"		142.0	–	–	–	150.0	45"		142.0	–	–	–	150.0
57"		150.0	–	162.0	162.0	160.0	48"		135.0	–	–	–	142.8	48"		135.0	–	–	–	142.8
60"		150.0	–	162.0	162.0	150.0	24"	96"	160.0	162.0	162.0	162.0	160.0	24"	96"	160.0	162.0	162.0	162.0	160.0
63"		150.0	–	162.0	162.0	150.0	27"		160.0	162.0	162.0	162.0	160.0	27"		160.0	162.0	162.0	162.0	160.0
66"		147.0	–	–	–	150.0	30"		160.0	162.0	162.0	162.0	160.0	30"		160.0	162.0	162.0	162.0	160.0
69"		143.0	–	–	–	150.0	33"		160.0	162.0	162.0	162.0	160.0	33"		160.0	162.0	162.0	162.0	160.0
							36"		160.0	162.0	162.0	162.0	160.0	36"		160.0	162.0	162.0	162.0	160.0
							39"		150.0	162.0	162.0	162.0	160.0	39"		150.0	162.0	162.0	162.0	160.0
							42"		150.0	–	162.0	162.0	160.0	42"		150.0	–	162.0	162.0	150.0
							45"		142.0	–	–	–	150.0	45"		142.0	–	–	–	150.0
							48"		135.0	–	–	–	142.8	48"		135.0	–	–	–	142.8
							51"							51"						

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0317.09**
Expiration Date: **07/01/2024**
By: *Manuel Perez*
Miami-Dade Product Control

MAR 11 2021

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

revisions:

no	date	by	description
I	06.01.14	MANUF.	NAME REV.
J	05.13.16		UPDATED TO 2014 FBC
K	10.03.17		NO CHANGE THIS SHEET
L	11.20.20		UPDATED TO 2020 FBC

date: 03–23–04
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W04–26
sheet 3 of 12

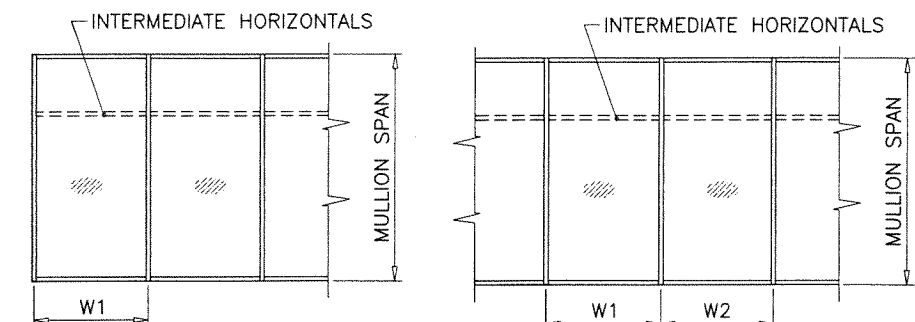
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

HP3070 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

STORE W04–26RC

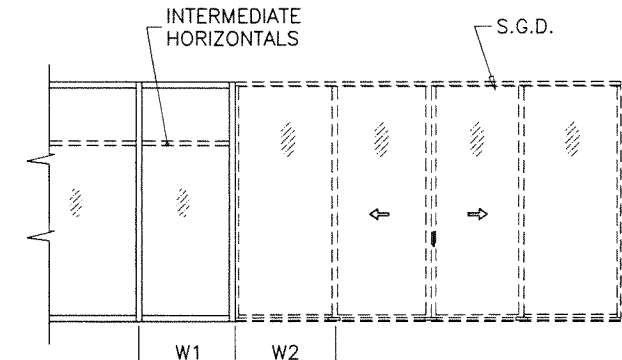
MULLION/JAMB DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		JAMB 'J1'		JAMB 'J2' JAMB 'CJ1'	JAMB 'J3' JAMB 'CJ2'	JAMB 'J3' JAMB 'CJ2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	66"	150.0	160.0	150.0	162.0	150.0	162.0
36"		150.0	160.0	150.0	162.0	150.0	162.0
42"		150.0	160.0	150.0	162.0	150.0	162.0
45"		150.0	160.0	150.0	162.0	150.0	162.0
48"		150.0	160.0	150.0	162.0	150.0	162.0
54"		150.0	160.0	150.0	162.0	150.0	162.0
60"		150.0	160.0	150.0	162.0	150.0	162.0
66"		150.0	160.0	150.0	162.0	150.0	162.0
72"		150.0	160.0	150.0	160.0	150.0	162.0
30"	72"	150.0	160.0	150.0	162.0	150.0	162.0
36"		150.0	160.0	150.0	162.0	150.0	162.0
42"		150.0	160.0	150.0	162.0	150.0	162.0
45"		150.0	160.0	150.0	162.0	150.0	162.0
48"		150.0	160.0	150.0	162.0	150.0	162.0
54"		150.0	160.0	150.0	162.0	150.0	162.0
60"		150.0	160.0	150.0	162.0	150.0	162.0
66"		150.0	160.0	150.0	160.0	150.0	162.0
72"		150.0	160.0	150.0	160.0	150.0	162.0
30"	78"	150.0	160.0	150.0	162.0	150.0	162.0
36"		150.0	160.0	150.0	162.0	150.0	162.0
42"		150.0	160.0	150.0	162.0	150.0	162.0
45"		150.0	160.0	150.0	162.0	150.0	162.0
48"		150.0	160.0	150.0	162.0	150.0	162.0
54"		150.0	160.0	150.0	162.0	150.0	162.0
60"		150.0	160.0	150.0	160.0	150.0	162.0
66"		150.0	160.0	150.0	160.0	150.0	162.0
72"		150.0	150.0	150.0	150.0	150.0	160.0
30"	84"	150.0	160.0	150.0	162.0	150.0	162.0
36"		150.0	160.0	150.0	162.0	150.0	162.0
42"		150.0	160.0	150.0	162.0	150.0	162.0
45"		150.0	160.0	150.0	162.0	150.0	162.0
48"		150.0	160.0	150.0	162.0	150.0	162.0
54"		150.0	160.0	150.0	160.0	150.0	162.0
60"		150.0	160.0	150.0	160.0	150.0	162.0
66"		150.0	150.0	150.0	150.0	150.0	160.0
72"		-	-	-	-	100.0	138.0
30"	90"	150.0	160.0	150.0	162.0	150.0	162.0
36"		150.0	160.0	150.0	162.0	150.0	162.0
42"		150.0	160.0	150.0	162.0	150.0	162.0
45"		150.0	160.0	150.0	162.0	150.0	162.0
48"		150.0	160.0	150.0	162.0	150.0	162.0
54"		150.0	160.0	150.0	160.0	150.0	162.0
60"		150.0	150.0	150.0	150.0	150.0	160.0
66"		-	-	-	-	120.0	160.0
72"		-	-	-	-	90.0	110.0
30"	96"	150.0	160.0	150.0	162.0	150.0	162.0
36"		150.0	160.0	150.0	162.0	150.0	162.0
42"		150.0	160.0	150.0	162.0	150.0	162.0
45"		150.0	160.0	150.0	162.0	150.0	162.0
48"		150.0	160.0	150.0	160.0	150.0	162.0
54"		150.0	160.0	150.0	155.9	150.0	162.0
60"		-	-	-	-	150.0	160.0
66"		-	-	-	-	90.0	110.0
72"		-	-	-	-	90.0	110.0

MULLION/JAMB DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		JAMB 'J1'		JAMB 'J2' JAMB 'CJ1'	JAMB 'J3' JAMB 'CJ2'	JAMB 'J3' JAMB 'CJ2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	102"	150.0	160.0	150.0	162.0	150.0	162.0
36"		150.0	160.0	150.0	162.0	150.0	162.0
42"		150.0	160.0	150.0	162.0	150.0	162.0
45"		150.0	160.0	150.0	160.0	150.0	162.0
48"		150.0	160.0	150.0	153.6	150.0	162.0
54"		150.0	150.0	136.5	136.5	150.0	160.0
60"		-	-	-	-	90.0	110.0
66"		-	-	-	-	90.0	110.0
30"	108"	150.0	160.0	150.0	160.0	150.0	162.0
36"		150.0	160.0	150.0	160.0	150.0	162.0
42"		150.0	160.0	150.0	154.9	150.0	162.0
45"		150.0	160.0	144.5	144.5	150.0	162.0
48"		150.0	160.0	135.5	135.5	150.0	162.0
54"		-	-	-	-	120.0	160.0
60"		-	-	-	-	90.0	110.0
66"		-	-	-	-	90.0	110.0
30"	114"	150.0	160.0	150.0	160.0	150.0	162.0
36"		150.0	160.0	150.0	160.0	150.0	162.0
42"		150.0	160.0	137.5	137.5	150.0	162.0
45"		150.0	160.0	128.3	128.3	150.0	162.0
48"		150.0	150.0	120.3	120.3	150.0	160.0
54"		-	-	-	-	90.0	110.0
60"		-	-	-	-	90.0	110.0
66"		-	-	-	-	90.0	110.0
30"	120"	150.0	160.0	150.0	160.0	150.0	162.0
36"		150.0	160.0	143.3	143.3	150.0	162.0
42"		150.0	160.0	122.8	122.8	150.0	162.0
45"		150.0	150.0	114.6	114.6	150.0	160.0
48"		-	-	-	-	150.0	160.0
54"		-	-	-	-	90.0	110.0
60"		-	-	-	-	90.0	110.0
66"		-	-	-	-	90.0	110.0
30"	126"	-	-	-	-	120.0	162.0
36"		-	-	-	-	120.0	162.0
42"		-	-	-	-	120.0	160.0
45"		-	-	-	-	120.0	160.0
48"		-	-	-	-	100.0	138.0
54"		-	-	-	-	90.0	110.0
60"		-	-	-	-	90.0	110.0
66"		-	-	-	-	90.0	110.0
30"	132"	-	-	-	-	120.0	162.0
36"		-	-	-	-	120.0	162.0
42"		-	-	-	-	120.0	160.0
45"		-	-	-	-	120.0	160.0
48"		-	-	-	-	90.0	110.0
54"		-	-	-	-	90.0	110.0
60"		-	-	-	-	100.0	138.0
66"		-	-	-	-	90.0	110.0
30"	138"	-	-	-	-	100.0	138.0
36"		-	-	-	-	100.0	138.0
42"		-	-	-	-	100.0	138.0
45"		-	-	-	-	90.0	110.0
48"		-	-	-	-	90.0	110.0
54"		-	-	-	-	90.0	110.0
60"		-	-	-	-	90.0	110.0
66"		-	-	-	-	90.0	110.0
30"	144"	-	-	-	-	100.0	138.0
36"		-	-	-	-	100.0	138.0
42"		-	-	-	-	100.0	138.0
45"		-	-	-	-	90.0	110.0
48"		-	-	-	-	90.0	110.0
54"		-	-	-	-	90.0	110.0
60"		-	-	-	-	90.0	110.0
66"		-	-	-	-	90.0	110.0
30"	147"	-	-	-	-	90.0	110.0
36"		-	-	-	-	90.0	110.0
42"		-	-	-	-	90.0	110.0
45"		-	-	-	-	90.0	110.0
48"		-	-	-	-	90.0	110.0
54"		-	-	-	-	90.0	110.0
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66"		-	-	-	-	90.0	110.0

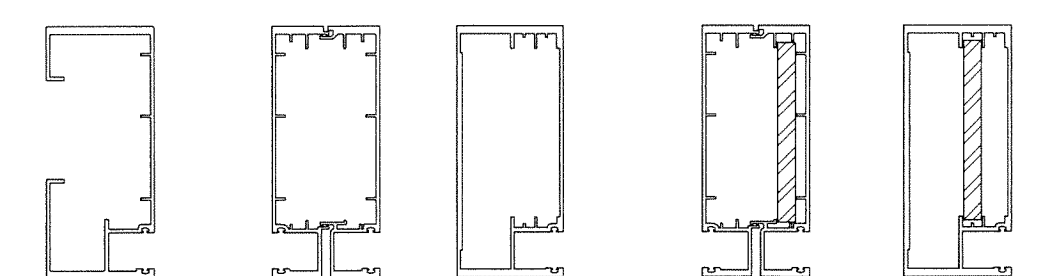


WIDTH (W) = W1
AT FRAME JAMB

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

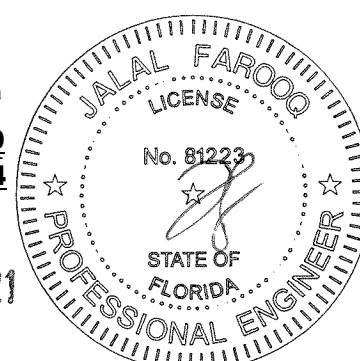


WIDTH (W) = $\frac{W1 + W2}{2}$
AT CLOSED JAMB



J1	ALUM	J2/CJ1/M1	ALUM	J3/CJ2/M2	Ix IN^4	Sx IN^3
Ix IN^4	19.9014	Ix IN^4	21.4964	ALUMINUM	21.4964	6.0498
Sx IN^3	5.5626	Sx IN^3	6.0405	STEEL	5.2083	2.0833
				TOTAL		
				Ix ALUM + Ix STL X 2.9	36.5996	

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0317.09**
Expiration Date: **07/01/2024**
By: *Manuel Perez*
Miami-Dade Product Control
MAR 11 2021



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

HP3070 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
I	08.01.14	MANUF.	NAME REV.
J	05.13.16		UPDATED TO 2014 FBC
K	10.03.17		REV. PER PER COMMENTS
L	11.20.20		UPDATED TO 2020 FBC

date: 03-23-04

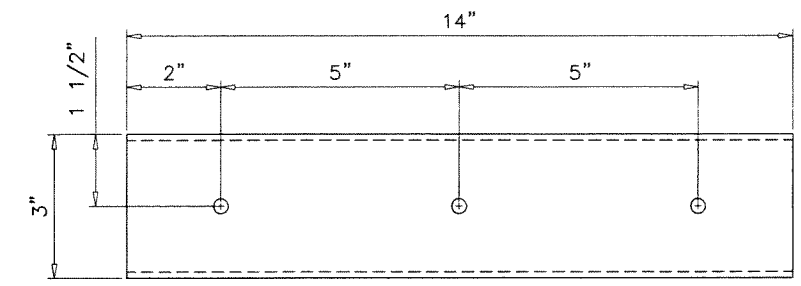
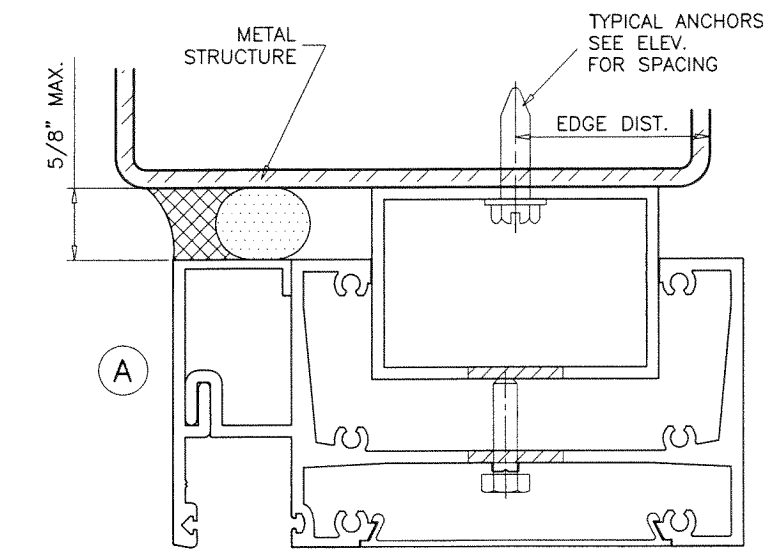
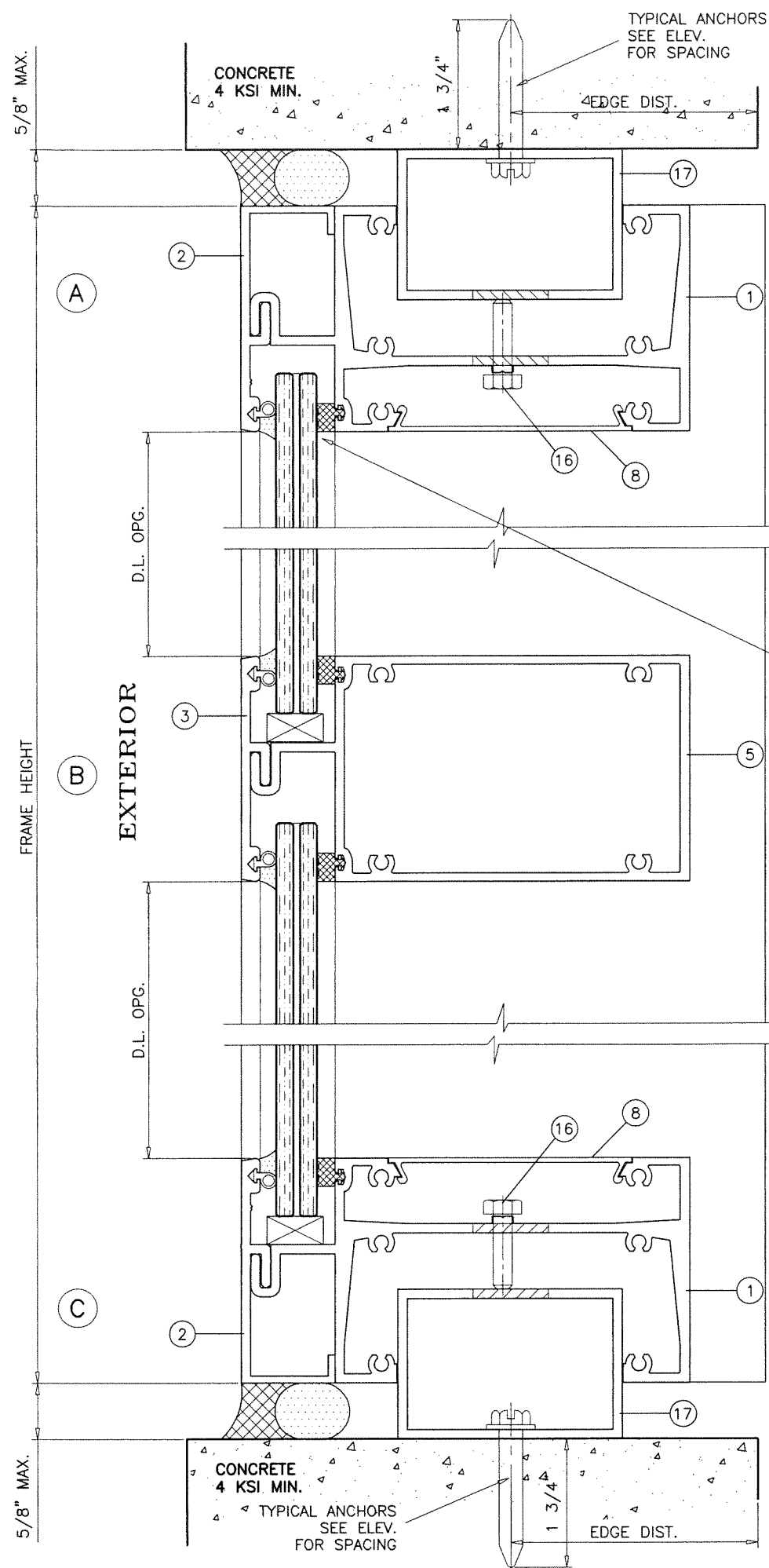
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dr. by: TARIQ

chk. by:

drawing no.
W04-26

sheet **4** of **12**



ANCHOR TUBE HOLES PATTERN

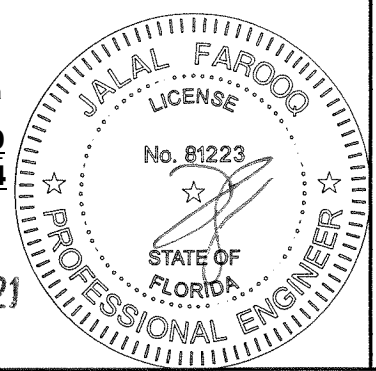
METAL STRUCTURES NOT BY 'TECNOGLASS'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
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/SILL)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 3/16" THK. MIN. (6063-T6 MIN.)
 STEEL: 3/16" 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
 as complying with the Florida
 Building Code
 NOA-No. **21-0317.09**
 Expiration Date: **07/01/2024**
 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 W04-26RC

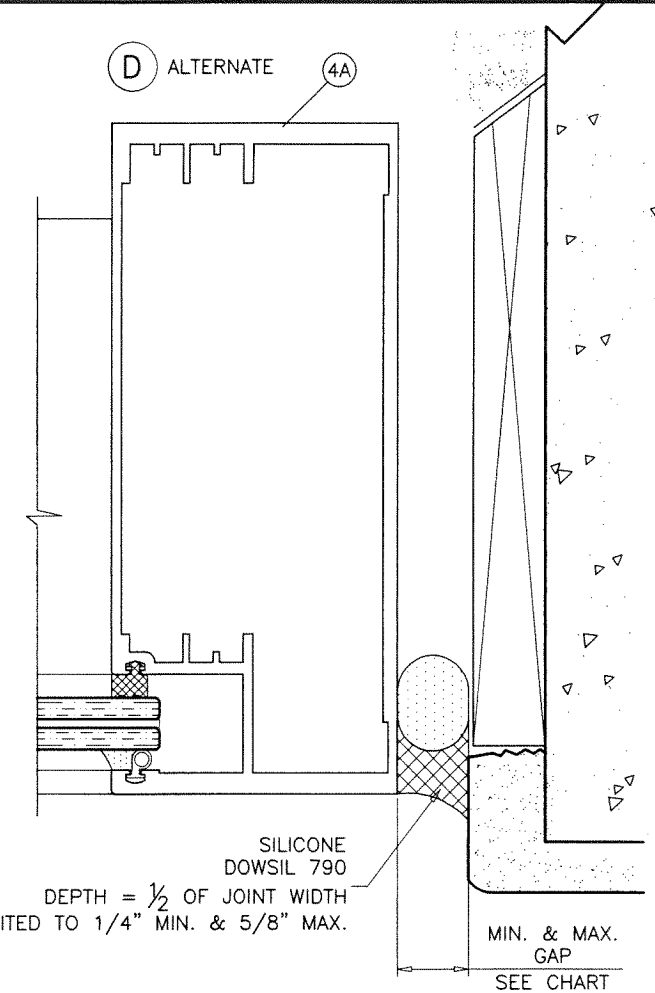
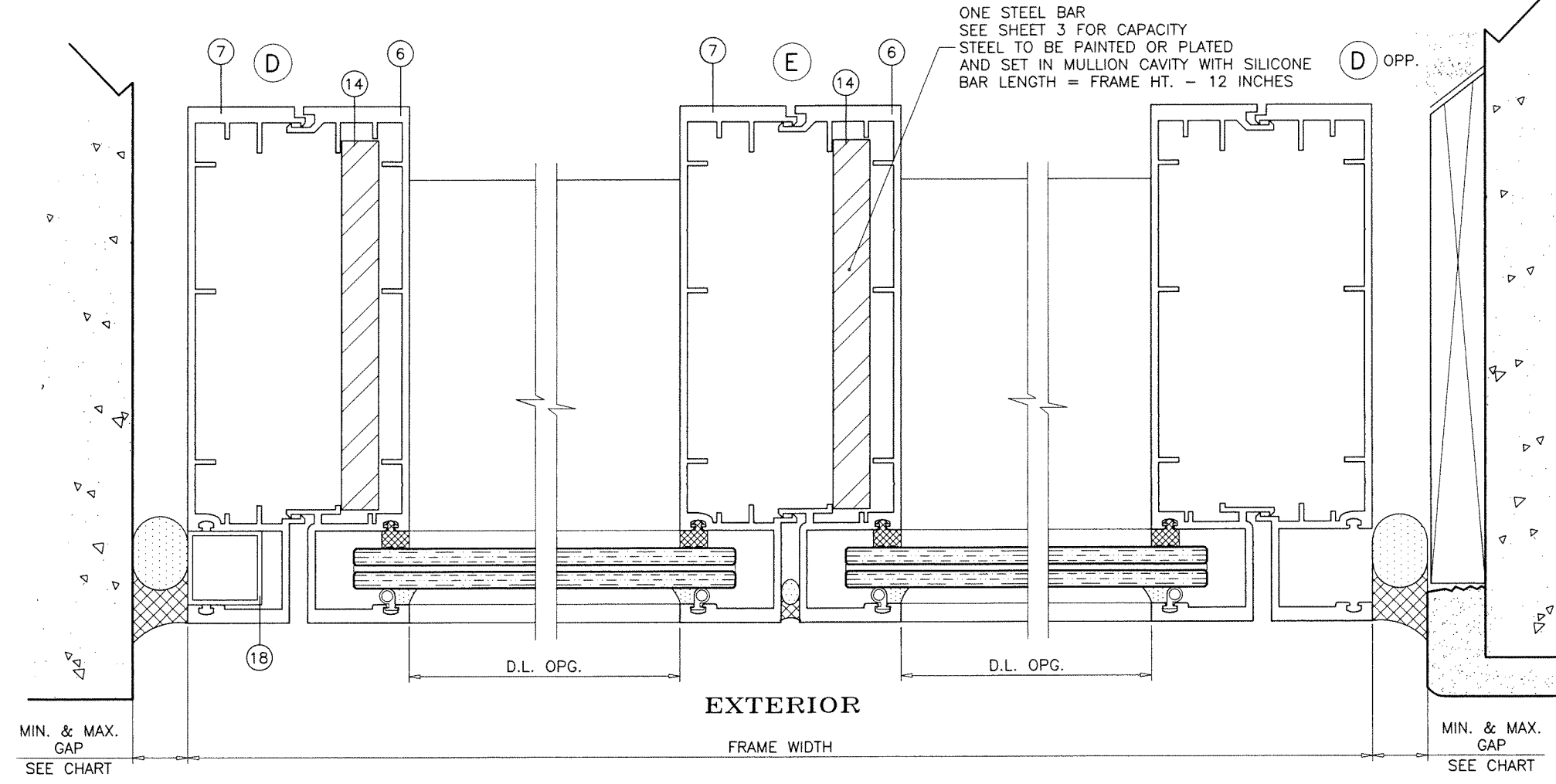
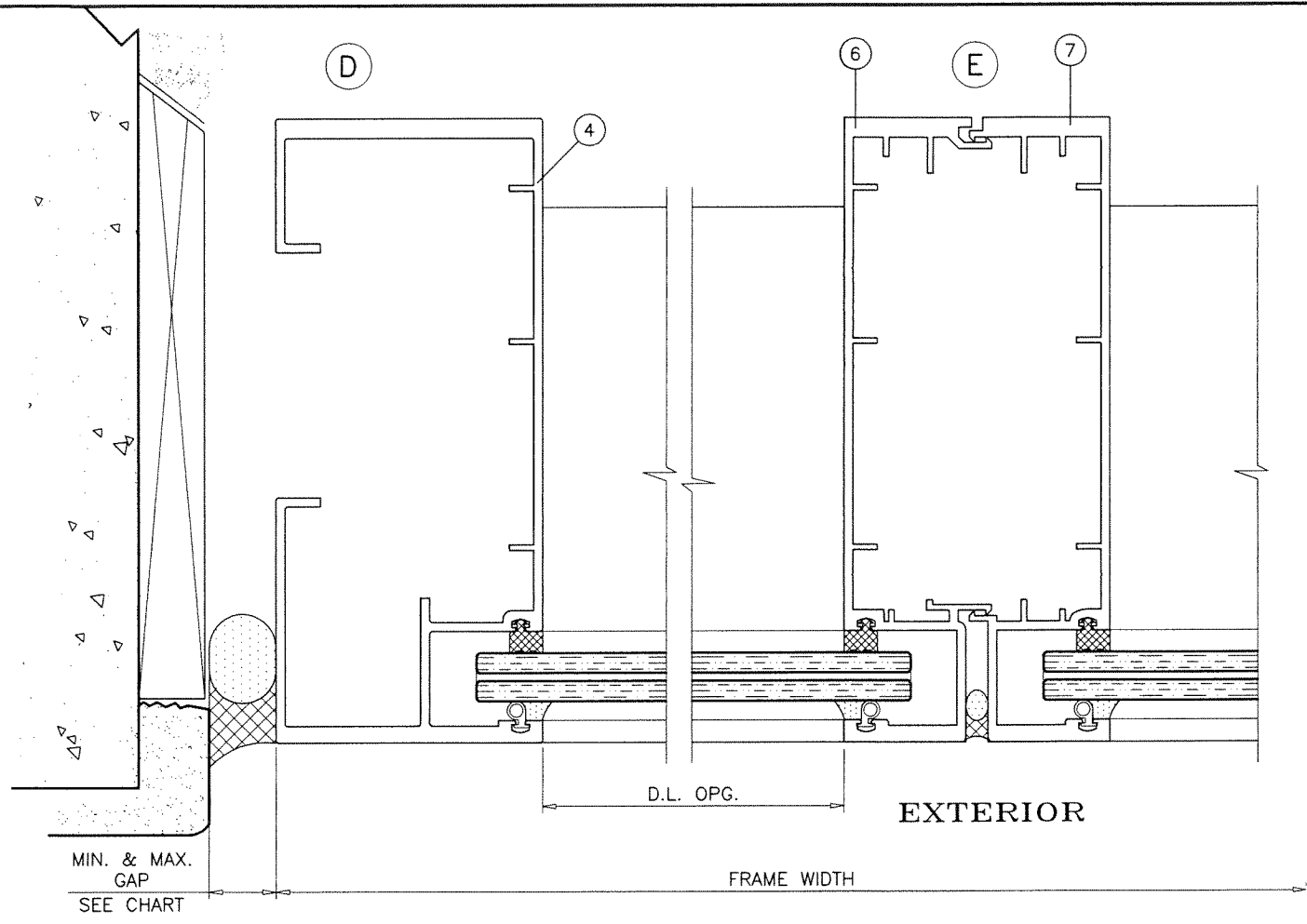
HP3070 ALUM. WINDOW WALL SYSTEM (S.M.I.)

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

no	date	by	description
I	08.01.14	MANUF. NAME	REV.
J	05.13.16	UPDATED TO 2014 FBC	
K	10.03.17	REV. PER PER COMMENTS	
L	11.20.20	UPDATED TO 2020 FBC	

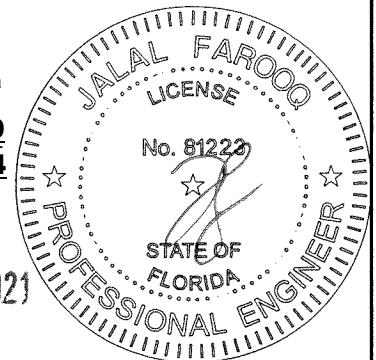
date: 03-23-04
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W04-26
 sheet 5 of 12



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
72"	1/4"	5/8"
84"	3/8"	5/8"
96"	3/8"	5/8"
108"	3/8"	5/8"
120"	1/2"	5/8"
132"	1/2"	5/8"
148"	1/2"	5/8"

PRODUCT REVISED
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MAR 11 2021



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revisions:

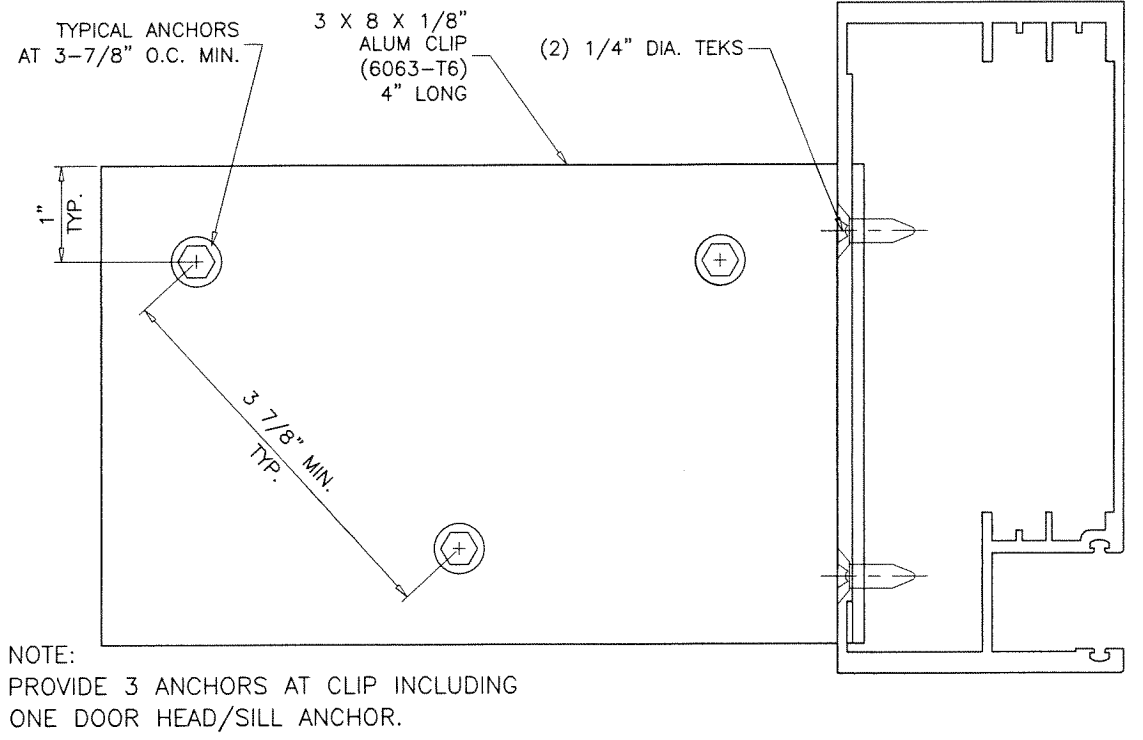
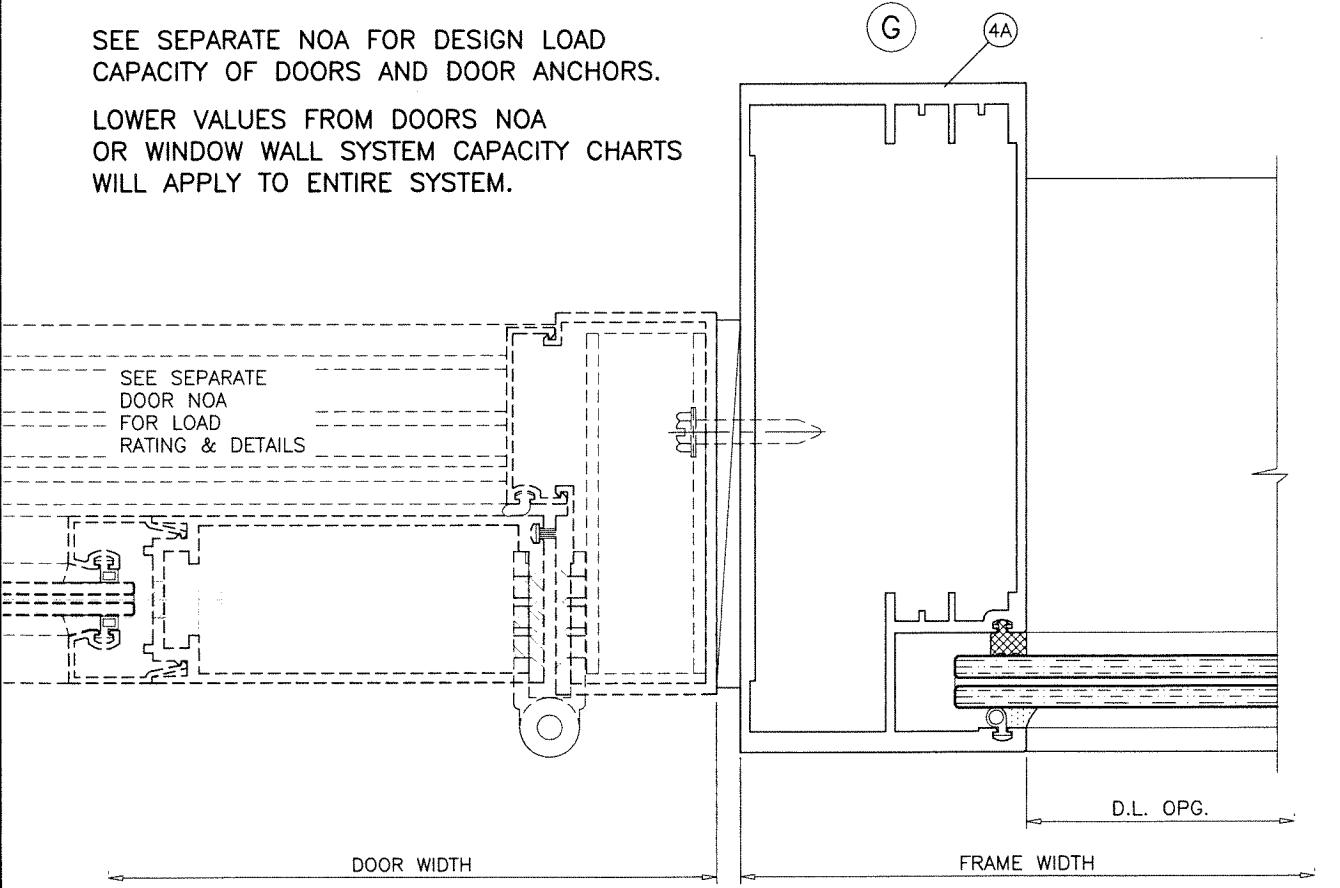
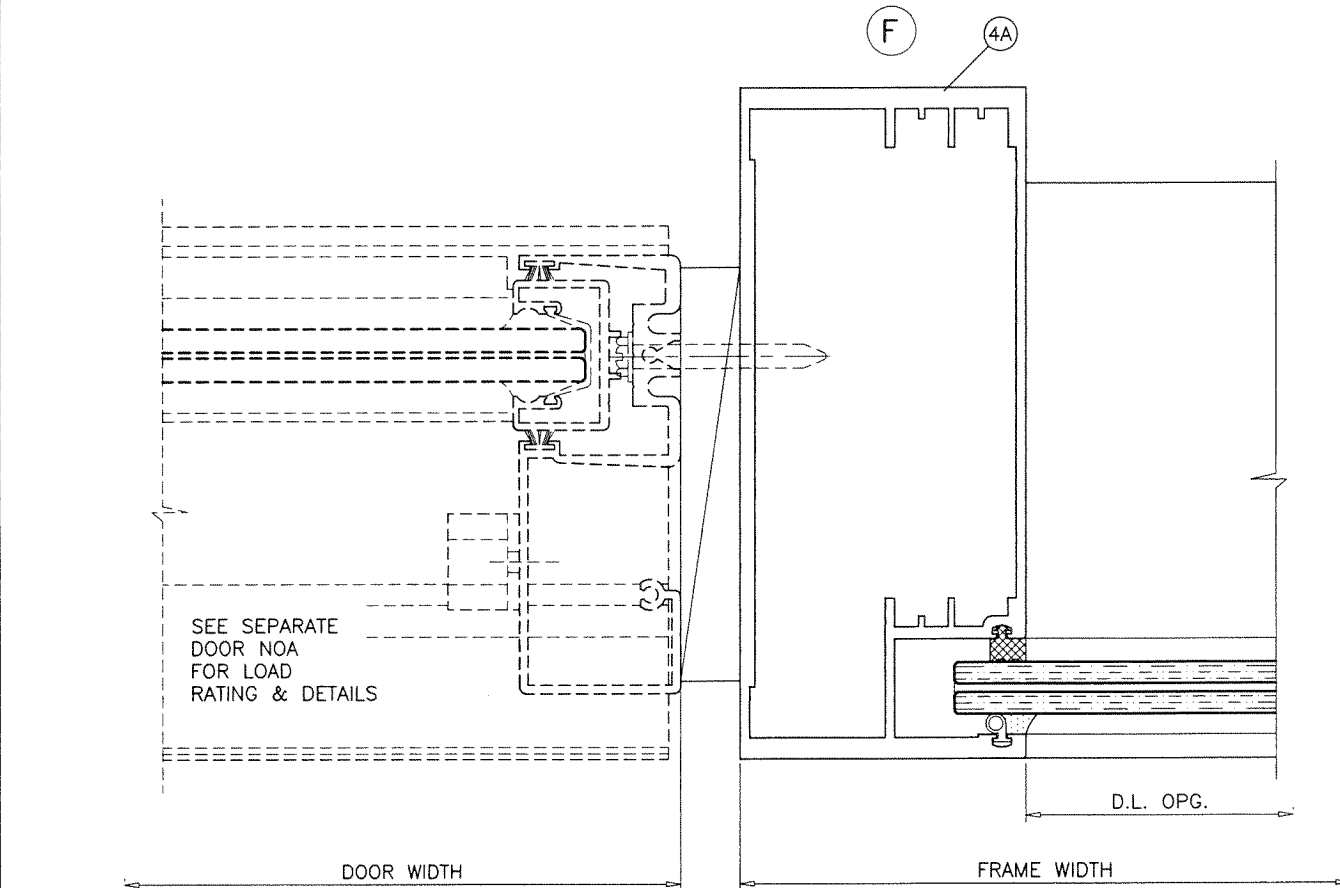
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L	11.20.20		UPDATED TO 2020 FBC

date: 03-23-04
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

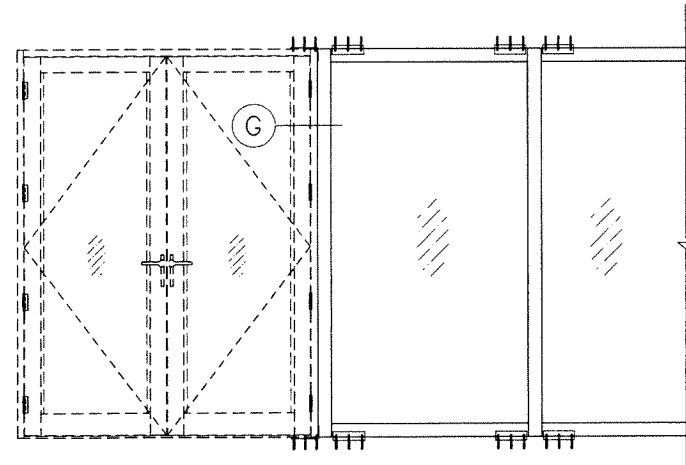
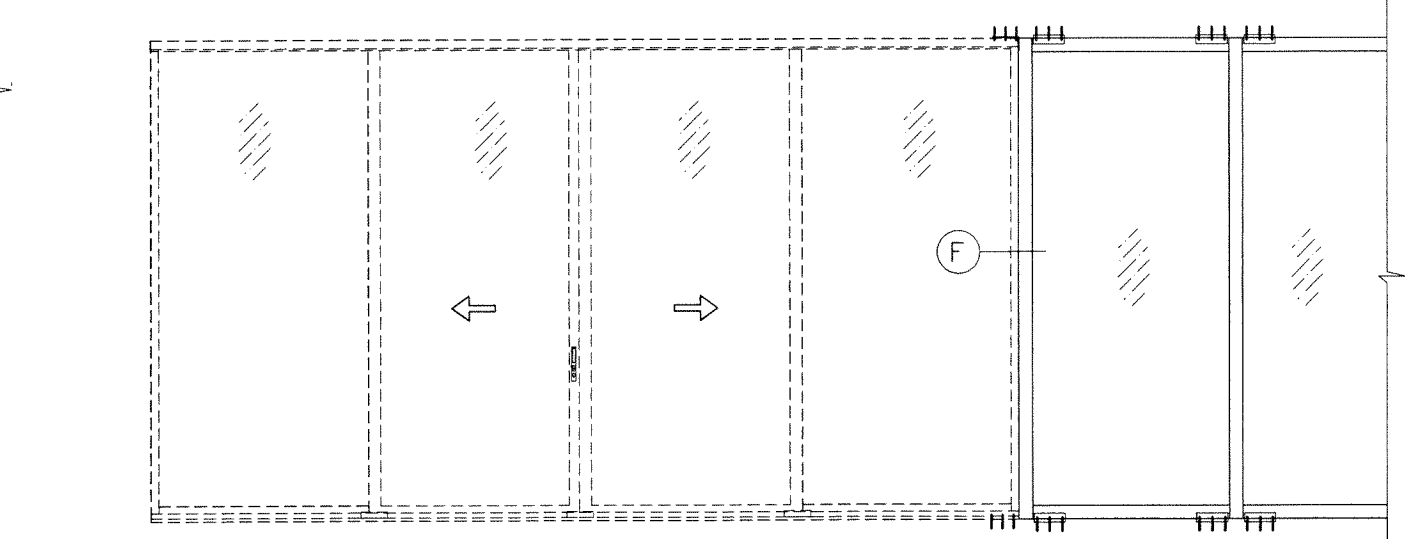
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W04-26
sheet 6 of 12

no	date	by	description
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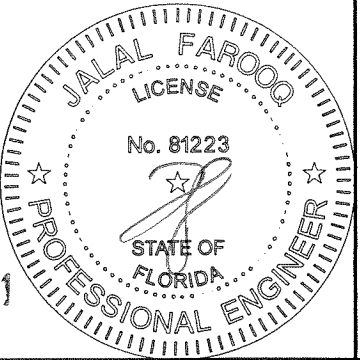
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 chk. by:
 drawing no.
W04-26
 sheet 7 of 12

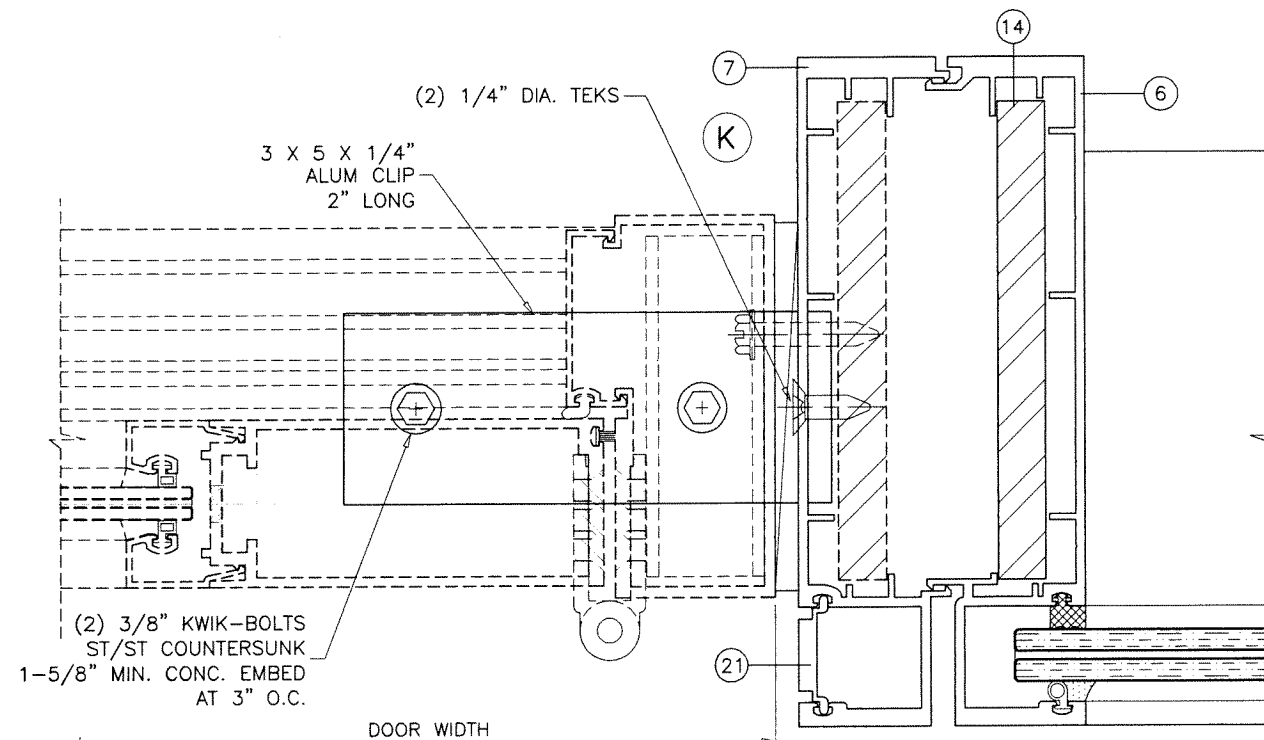
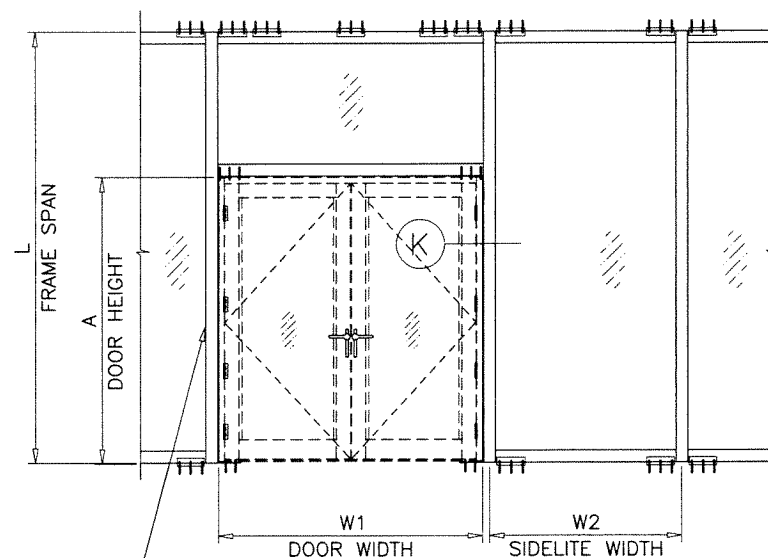
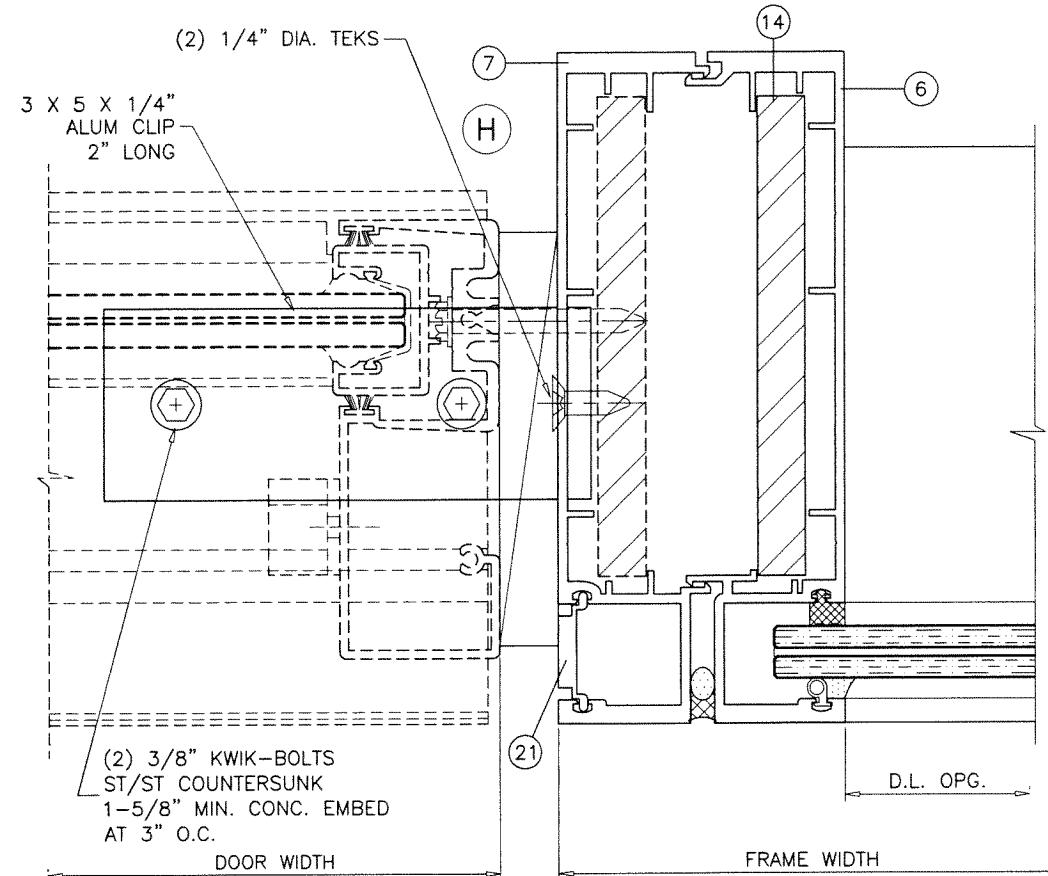
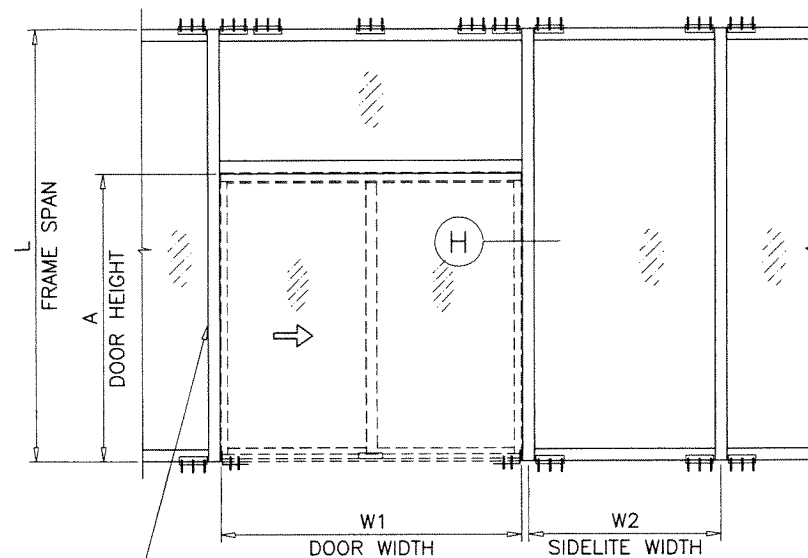


CLOSED JAMB INSTALLATION AT HEAD & SILL



PRODUCT REVISED
 as complying with the Florida Building Code
NOA-No. 21-0317.09
Expiration Date: 07/01/2024
 By: *Manuel Perez*
 Miami-Dade Product Control
MAR 11 2021

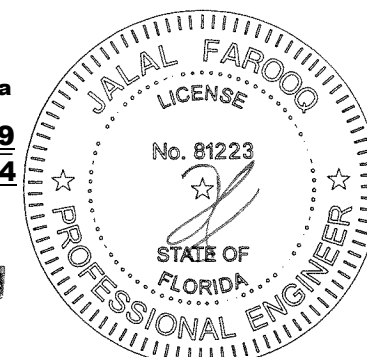




DOOR MULLION INSTALLATION AT SILL

SEE SEPARATE NOA FOR DESIGN LOAD
CAPACITY OF DOORS AND DOOR ANCHORS.
LOWER VALUES FROM DOORS NOA
OR WINDOW WALL SYSTEM CAPACITY CHARTS
WILL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED
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Building Code
NOA-No. **21-0317.09**
Expiration Date: **07/01/2024**
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Miami-Dade Product Control
MAR 11 2021



HP3070 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

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 W04-26RC

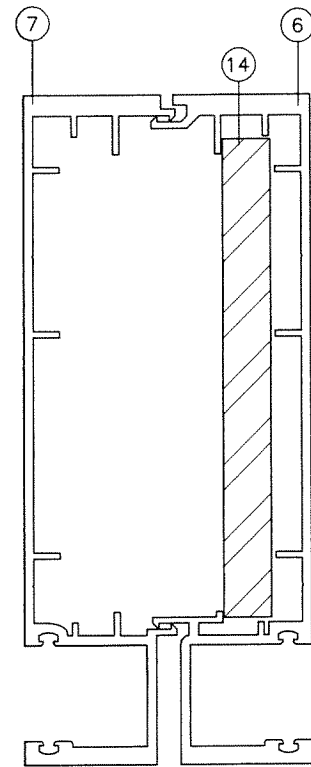
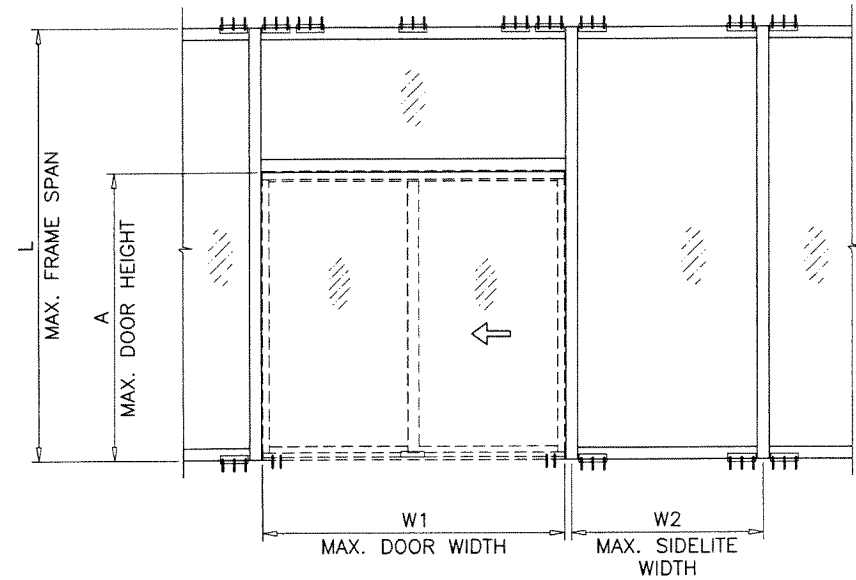
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K	10.03.17	REV. PER PER COMMENTS	
L	11.20.20	UPDATED TO 2020 FBC	

date: 03-23-04	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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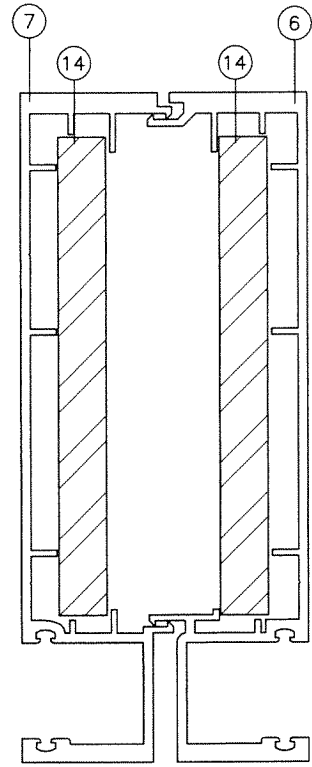
drawing no.
W04-26
sheet **8** of **12**

DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				1 STL. BAR	2 STL. BARS
DOOR WIDTH W1	SIDELITE WIDTH W2	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
96"	30"	96"	108"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
72"	30"	96"	120"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
84"	30"	96"	120"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			125.8	131.0
96"	30"	96"	120"	115.7	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			125.8	131.0
72"	30"	96"	132"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			130.4	131.0
	48"			128.1	131.0
	54"			121.6	131.0
	60"			115.7	131.0
84"	30"	96"	132"	105.6	131.0
	36"			131.0	131.0
	42"			129.5	131.0
	46"			122.9	131.0
	48"			118.8	131.0
	54"			116.9	131.0
	60"			111.5	131.0
96"	30"	96"	132"	106.5	131.0
	36"			124.2	131.0
	42"			118.1	131.0
	46"			112.6	131.0
	48"			109.2	131.0
	54"			107.5	131.0
	60"			102.9	131.0

DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				1 STL. BAR	2 STL. BARS
DOOR WIDTH W1	SIDELITE WIDTH W2	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
72"	30"	96"	144"	123.6	131.0
	36"			116.5	131.0
	42"			110.1	131.0
	46"			106.3	131.0
	48"			104.4	131.0
	54"			99.3	131.0
	60"			94.6	131.0
84"	30"	96"	144"	110.8	131.0
	36"			105.0	131.0
	42"			99.8	131.0
	46"			96.7	131.0
	48"			95.1	131.0
	54"			90.9	128.4
	60"			100.4	131.0
96"	30"	96"	144"	95.6	131.0
	42"			91.3	129.0
	46"			88.6	125.2

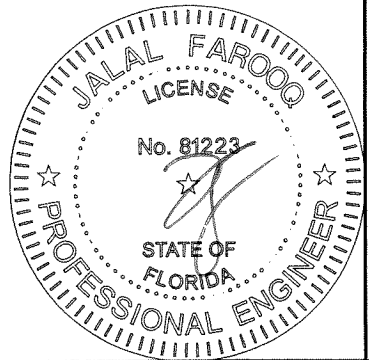


	Ix IN^4	Sx IN^3
ALUMINUM	21.4964	6.04
STEEL	5.208	2.083
TOTAL Ix ALUM + Ix STL X 2.9	36.5996	



	Ix IN^4	Sx IN^3
ALUMINUM	21.4964	6.04
STEEL	10.416	4.166
TOTAL Ix ALUM + Ix STL X 2.9	51.7028	

PRODUCT REVISED
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Miami-Dade Product Control
MAR 11 2021



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W04-26RC

HP3070 ALUM. WINDOW WALL SYSTEM (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
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revisions:

no	date	by	description
I	08.01.14		MANUF. NAME REV.
J	05.13.16		UPDATED TO 2014 FBC
K	10.03.17		REV. PER RER COMMENTS
L	11.20.20		UPDATED TO 2020 FBC

date: 03-23-04
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

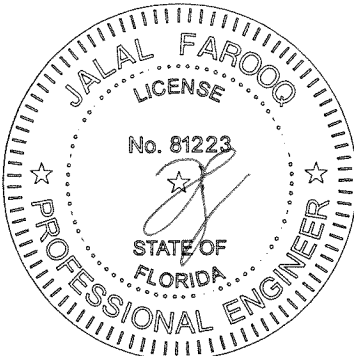
drawing no.
W04-26


sheet 9 of 12

DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				1 STL. BAR	2 STL. BARS
DOOR WIDTH W1	SIDELITE WIDTH W2	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
96"	30"	102"	108"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
	72"			131.0	131.0
72"	30"	102"	120"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
	72"			131.0	131.0
84"	30"			131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
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	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
	72"			120.7	131.0
72"	30"	102"	132"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			125.1	131.0
	60"			118.9	131.0
	72"			108.2	131.0
84"	30"			131.0	131.0
	36"			131.0	131.0
	42"			127.0	131.0
	46"			122.7	131.0
	48"			120.6	131.0
	54"			114.9	131.0
	60"			109.6	131.0
96"	30"			129.0	131.0
	36"			122.5	131.0
	42"			116.5	131.0
	46"			112.9	131.0
	48"			111.1	131.0
	54"			106.2	131.0

DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				1 STL. BAR	2 STL. BARS
DOOR WIDTH W1	SIDELITE WIDTH W2	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
72"	30"	102"	144"	126.5	131.0
	36"			119.1	131.0
	42"			112.4	131.0
	46"			108.4	131.0
	48"			106.5	131.0
	54"			101.2	131.0
	60"			96.3	131.0
84"	30"			113.5	131.0
	36"			107.8	131.0
	42"			102.1	131.0
	46"			98.7	131.0
	48"			97.1	131.0
	54"			92.7	130.9
96"	30"			103.0	131.0
	36"			98.0	131.0
	42"			93.4	131.0
	46"			90.6	128.0

PRODUCT REVISED
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Building Code
NOA-No. **21-0317.09**
Expiration Date: **07/01/2024**
By: *Manuel Perez*
Miami-Dade Product Control
MAR 11 2021



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no	date	by	description
I	08.01.14		MANUF. NAME REV.
J	05.13.16		UPDATED TO 2014 FBC
K	10.03.17		REV. PER RER COMMENTS
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scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W04-26

sheet 10 of 12

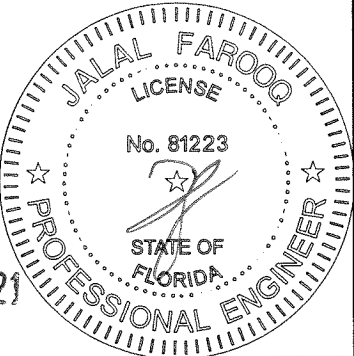
STORE\W04-26RC

DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				1 STL. BAR	2 STL. BARS
DOOR WIDTH W1	SIDELITE WIDTH W2	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
84"	30"	108"	120"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
	72"			131.0	131.0
96"	30"		120"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
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72"	30"	108"	132"	131.0	131.0
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	42"			117.6	131.0
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	60"			122.4	131.0
	72"			115.4	131.0
72"	30"	108"	144"	111.1	131.0
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	42"			103.5	131.0
	46"			98.5	131.0
	48"			117.0	131.0
	54"			110.6	131.0
	60"			104.9	131.0
	72"			101.4	131.0
84"	30"		144"	99.7	131.0
	36"			95.0	131.0
	42"			106.3	131.0
	46"			101.0	131.0
	48"			96.1	131.0
	54"			93.2	131.0
	60"				
	72"				
96"	30"				
	36"				
	42"				
	46"				

DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				1 STL. BAR	2 STL. BARS
DOOR WIDTH W1	SIDELITE WIDTH W2	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
96"	30"	114"	120"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
	72"			131.0	131.0
72"	30"		132"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			127.6	131.0
	60"			115.4	131.0
	72"			131.0	131.0
84"	30"		132"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			124.5	131.0
	60"			118.4	131.0
	72"			131.0	131.0
96"	30"		132"	131.0	131.0
	36"			131.0	131.0
	42"			128.0	131.0
	46"			123.6	131.0
	48"			121.6	131.0
	54"			115.7	131.0
	60"			131.0	131.0
	72"			126.5	131.0
72"	30"	114"	144"	119.1	131.0
	36"			114.6	131.0
	42"			112.4	131.0
	46"			106.5	131.0
	48"			101.2	131.0
	54"			121.5	131.0
	60"			114.6	131.0
	72"			108.4	131.0
84"	30"		144"	104.7	131.0
	36"			102.9	131.0
	42"			97.9	131.0
	46"			110.5	131.0
	48"			104.7	131.0
	54"			99.6	131.0
	60"			96.4	131.0
	72"				
96"	30"				
	36"				
	42"				
	46"				

DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				1 STL. BAR	2 STL. BARS
DOOR WIDTH W1	SIDELITE WIDTH W2	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
72"	30"	120"	132"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			131.0	131.0
	72"			120.2	131.0
84"	30"		132"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			131.0	131.0
	60"			124.4	131.0
	72"			131.0	131.0
96"	30"		132"	131.0	131.0
	36"			131.0	131.0
	42"			131.0	131.0
	46"			131.0	131.0
	48"			131.0	131.0
	54"			128.9	131.0
	60"			122.3	131.0
	72"			131.0	131.0
72"	30"	120"	144"	131.0	131.0
	36"			131.0	131.0
	42"			123.6	131.0
	46"			118.8	131.0
	48"			116.5	131.0
	54"			110.1	131.0
	60"			104.4	131.0
	72"			127.1	131.0
84"	30"		144"	119.6	131.0
	36"			112.9	131.0
	42"			108.8	131.0
	46"			106.9	131.0
	48"			101.5	131.0
	54"			115.7	131.0
	60"			109.5	131.0
	72"			103.8	131.0
96"	30"			100.4	131.0
	36"				
	42"				
	46"				

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0317.09**
Expiration Date: **07/01/2024**
By: *Manuel Perez*
Miami-Dade Product Control
MAR 11 2021



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

HP3070 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
I	08.01.14	MANUF.	NAME REV.
J	05.13.16		UPDATED TO 2014 FBC
K	10.03.17	REV.	PER PER COMMENTS
L	11.20.20		UPDATED TO 2020 FBC

date: 03-23-04

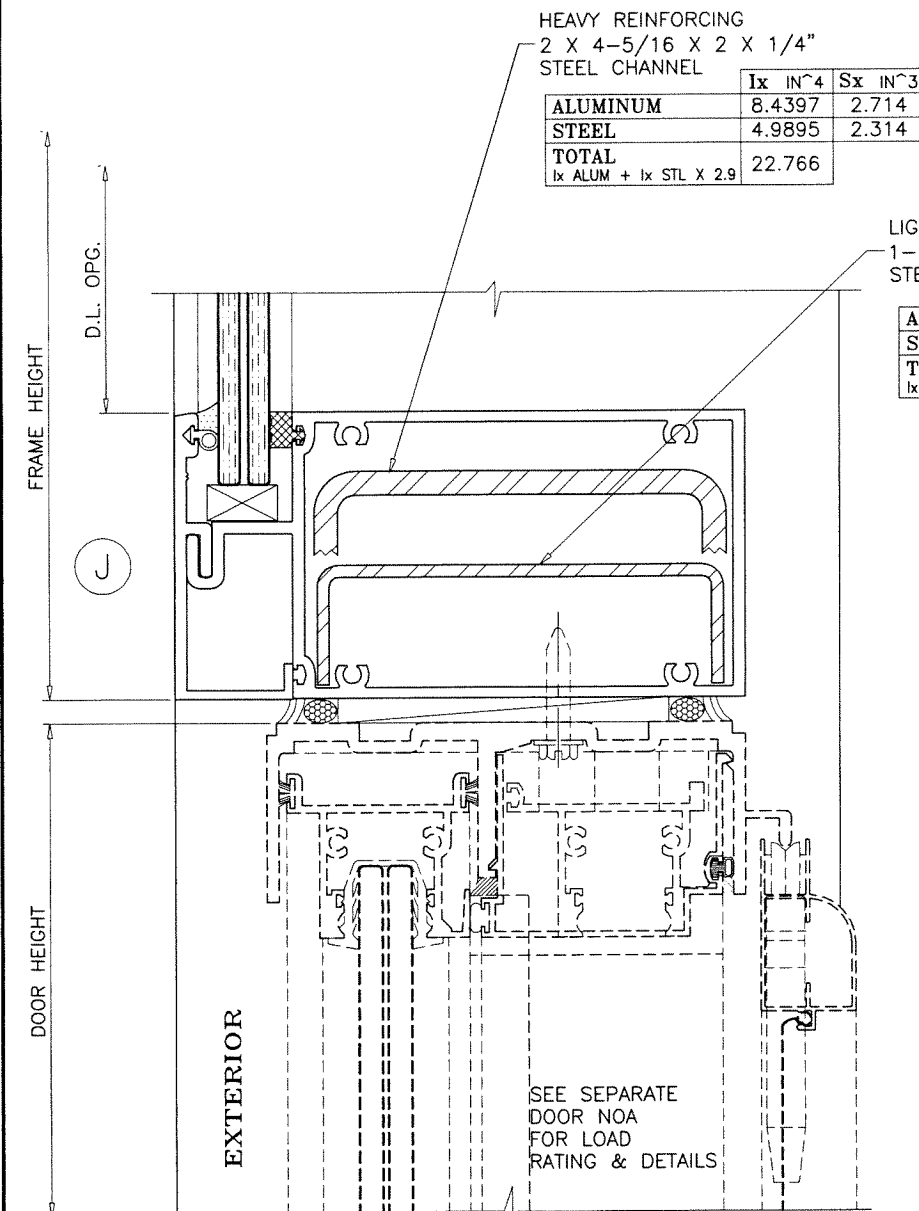
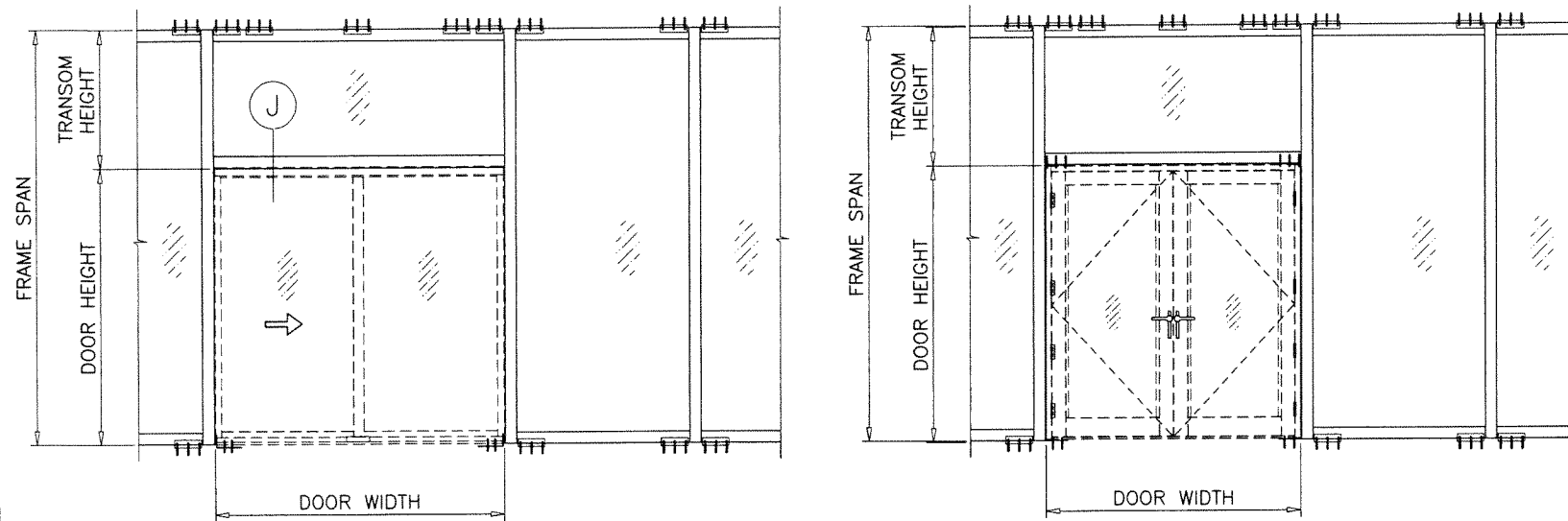
scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W04-26

sheet 11 of 12



HEAVY REINFORCING
2 X 4-5/16 X 2 X 1/4"
STEEL CHANNEL

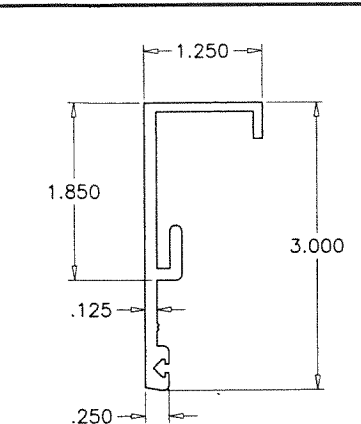
	Ix IN ⁴	Sx IN ³
ALUMINUM	8.4397	2.714
STEEL	4.9895	2.314
TOTAL Ix ALUM + Ix STL X 2.9	22.766	

LIGHT REINFORCING
1-1/4 X 4-1/4 X 1-1/4 X 1/8"
STEEL CHANNEL

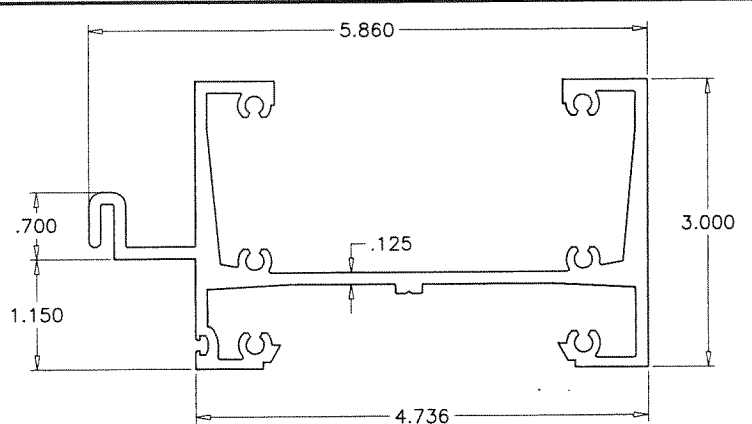
	Ix IN ⁴	Sx IN ³
ALUMINUM	8.4397	2.714
STEEL	1.9196	.903
TOTAL Ix ALUM + Ix STL X 2.9	13.9514	

SEE SEPARATE NOA FOR DESIGN LOAD
CAPACITY OF DOORS AND DOOR ANCHORS.
LOWER VALUES FROM DOORS NOA
OR WINDOW WALL SYSTEM CAPACITY CHARTS
WILL APPLY TO ENTIRE SYSTEM.

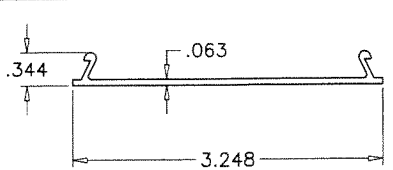
TRANSOM HORIZONTAL LOAD CAPACITY					
NOMINAL DIMS.				LIGHT REINF.	HEAVY REINF.
DOOR WIDTH	TRANSOM HT.	DOOR HEIGHT	FRAME SPAN	EXT. (+) INT. (-)	EXT. (+) INT. (-)
72"	12"	96"	108"	131.0	131.0
	24"		120"	131.0	131.0
	36"		132"	131.0	131.0
	48"		144"	131.0	131.0
	6"	102"	108"	131.0	131.0
	18"		120"	131.0	131.0
	30"		132"	131.0	131.0
	42"		144"	131.0	131.0
	12"	108"	120"	131.0	131.0
	24"		132"	131.0	131.0
	36"		144"	131.0	131.0
	6"	114"	120"	131.0	131.0
	18"		132"	131.0	131.0
	30"		144"	131.0	131.0
	12"	120"	132"	131.0	131.0
	24"		144"	131.0	131.0
84"	12"	96"	108"	131.0	131.0
	24"		120"	131.0	131.0
	36"		132"	122.1	131.0
	48"		144"	112.0	131.0
	6"	102"	108"	131.0	131.0
	18"		120"	131.0	131.0
	30"		132"	122.1	131.0
	42"		144"	112.0	131.0
	12"	108"	120"	131.0	131.0
	24"		132"	122.1	131.0
	36"		144"	112.0	131.0
	6"	114"	120"	131.0	131.0
	18"		132"	122.1	131.0
	30"		144"	110.4	131.0
	12"	120"	132"	122.1	131.0
	24"		144"	112.0	131.0
96"	12"	96"	108"	114.3	131.0
	24"		120"	102.9	131.0
	36"		132"	93.5	131.0
	48"		144"	85.7	131.0
	6"	102"	108"	114.3	131.0
	18"		120"	102.9	131.0
	30"		132"	93.5	131.0
	42"		144"	85.7	131.0
	12"	108"	120"	102.9	131.0
	24"		132"	93.5	131.0
	36"		144"	85.7	131.0
	6"	114"	120"	102.9	131.0
	18"		132"	93.5	131.0
	30"		144"	84.5	131.0
	12"	120"	132"	93.5	131.0
	24"		144"	85.7	131.0



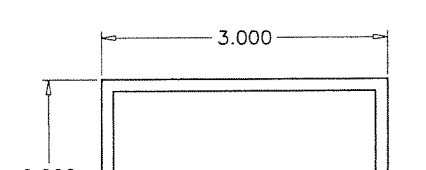
② GLAZING RETAINER HEAD/SILL



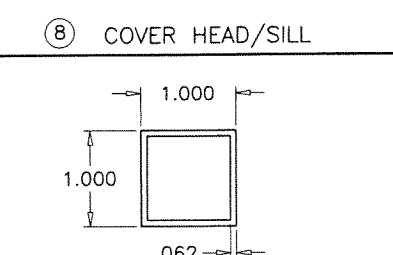
① FRAME HEAD/SILL



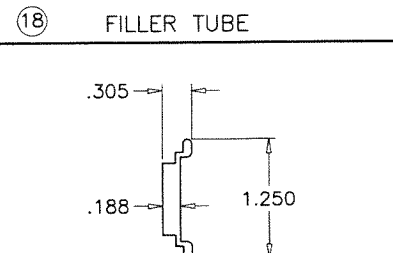
⑧ COVER HEAD/SILL



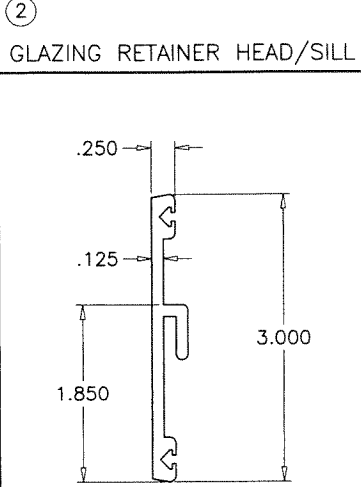
⑰ ANCHOR TUBE



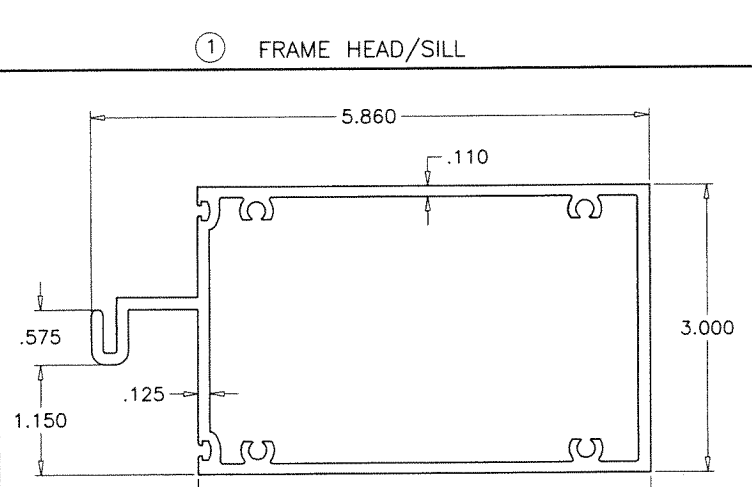
⑱ FILLER TUBE



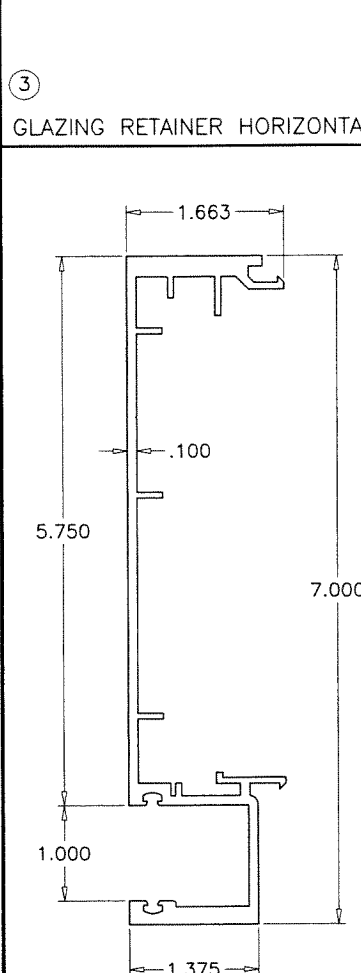
②① GLAZING POCKET COVER



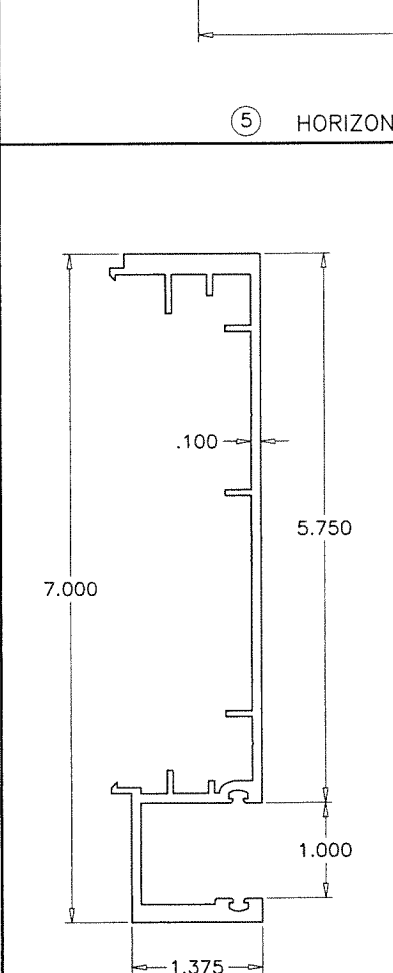
③ GLAZING RETAINER HORIZONTAL



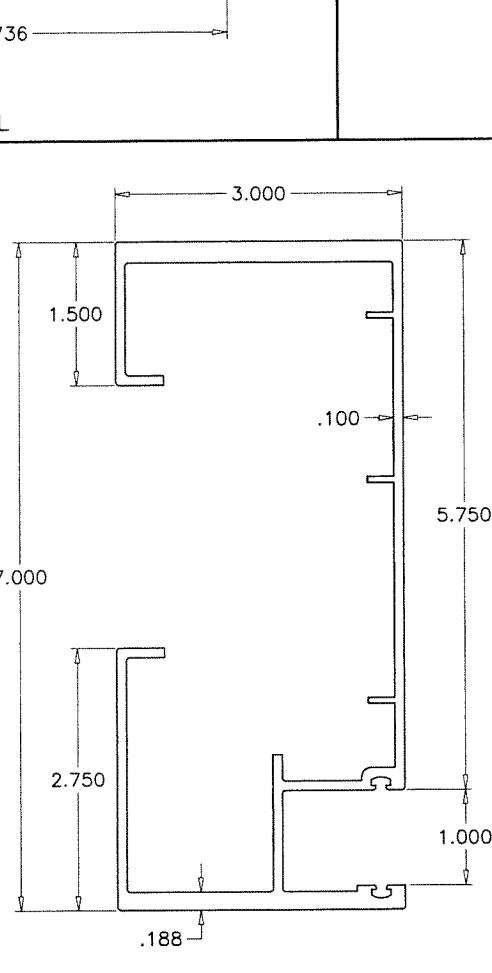
⑤ HORIZONTAL



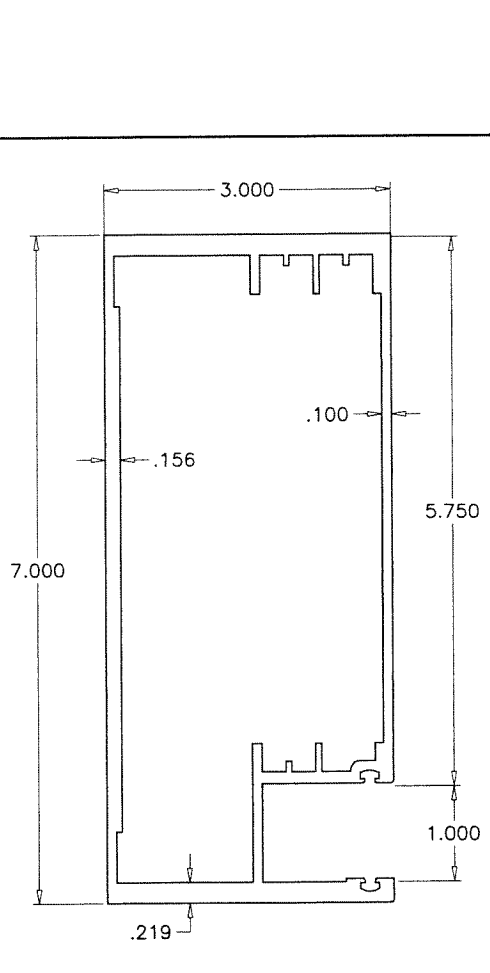
⑦ MALE MULLION



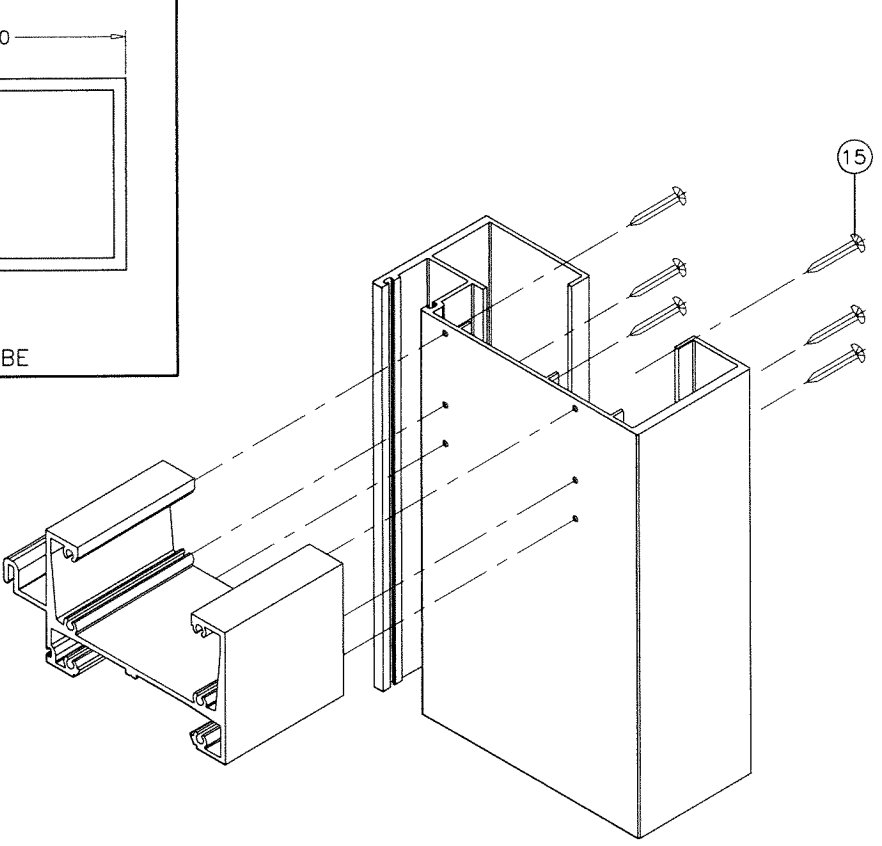
⑥ FEMALE MULLION



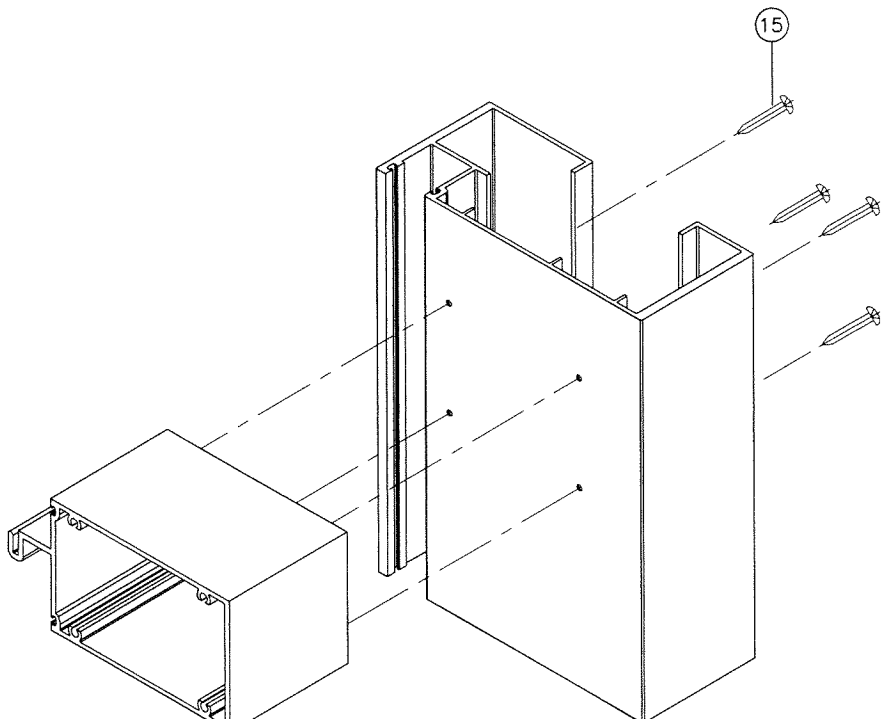
④ FRAME JAMB



④A CLOSED FRAME JAMB



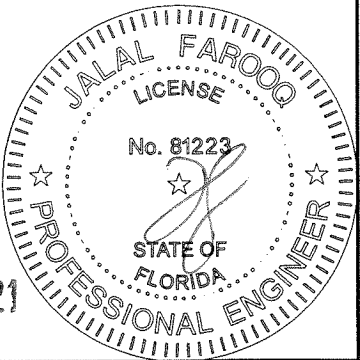
FRAME CORNER



FRAME CORNER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **21-0317.09**
Expiration Date: **07/01/2024**
By: *Manuel Perez*
Miami-Dade Product Control

MAR 11 2021



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no	date	by	description
I	08.01.14	MANUF	NAME REV.
J	05.13.16		UPDATED TO 2014 FBC
K	10.03.17		NO CHANGE THIS SHEET
L	11.20.20		UPDATED TO 2020 FBC

date: 03-23-04
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no. **W04-26**
sheet 12 of 12