



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/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

E.S. Windows, LLC
3550 NW 49th 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 "ES-P252 Thermally Broken" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **18-05D**, titled "ES-P252 Thermal Aluminum Fixed Wdw. (L.M.I)", sheets 1, 1.1, 1.2, 2, 3, 4, 5, 5.1 and 6 of 6, dated 12/27/17, with revision **E** dated 08/21/26, 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**, model/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. 24-1101.03** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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




9/15/26

No. 26-0831.10
Expiration Date: January 16, 2030
Approval Date: September 24, 2026
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

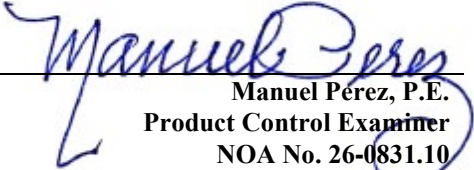
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 18-0312.02)
2. Drawing No. **18-05D**, titled "ES-P252 Thermal Aluminum Fixed Wdw. (L.M.I)", sheets 1, 1.1, 1.2, 2, 3, 4, 5, 5.1 and 6 of 6, dated 12/27/17, with revision **D** dated 10/03/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 24-1101.03)

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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of series ES-P252 thermal casement and fixed windows mock-ups 1 thru 3, prepared by Fenestration Testing Laboratory, a QAI Company, Test Report No. **FTL-12502**, dated 04/16/21, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 24-1101.03)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Drop Load Test, per CPCS 16 CFR 1201 (Cat 11) and ANSI Z97.1 (Class and A) (400 foot-pound impact)
along with marked-up drawings and installation diagram of series ES-P252 fixed window mock-ups 1 thru 10, prepared by Fenestration Testing Laboratory, a QAI Company, Test Report No. **FTL-12278**, dated 02/05/21, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 24-1101.03)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0831.10
Expiration Date: January 16, 2030
Approval Date: September 24, 2026

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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of series ES-P252 fixed windows mock-ups 1 thru 6, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-022**, dated 12/05/17, signed and sealed by Constantin Bortes, P.E.
(Submitted under NOA No. 18-0312.02)

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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

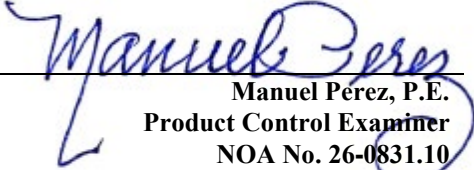
along with marked-up drawings and installation diagram of series ES-P252 fixed windows mock-ups 7 thru 9, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-022B**, dated 02/14/18, signed and sealed by Constantin Bortes, P.E.
(Submitted under NOA No. 18-0312.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 8th Edition (2023), dated 10/23/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 24-1101.03)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0831.10
Expiration Date: January 16, 2030
Approval Date: September 24, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 08/31/23, expiring on 07/04/28.
2. 0.315-inch (Length) by 0.26-inch (Height) by 0.0059-inch (Thickness) (8x6.6x0.15mm) Aluminum Low Profile Insulated-Glass spacer **Helima AH 800 N** (P/N.: USA K 001 000 000 R7) with Aluminum Alloy **AW-3000** ($F_{tu}=17$ ksi and $F_{ty}=12$ ksi) by **Helmut Lingemann GmbH & Co., KG.** (Helima).
3. Ensinger, GmbH Part No. **Tecatherm 66 GF Insulbar** complying with ASTM D638 Tensile Strength of 13,031 psi, ASTM D 1929 Self Ignition 793°F and Flash Ignition – 781°F, ASTM D 2843 Smoke Density of 1.63, ASTM D 635 Rate of Burn 0.752 in./min., ASTM D 790 Flexural Modulus of 870 ksi, ASTM D 256 Notched Izod of 1.9 ft.-lb./in.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, and of no financial interest, dated October 23, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 24-1101.03)
2. Distributor Agreement between ES Windows–Energia Solar, S.A., Barranquilla, Columbia, S.A. and ES Windows, LLC, Miami, Florida, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General Manager respectively on behalf of the companies.
(Submitted under NOA No. 18-0312.02)

G. OTHERS

1. Notice of Acceptance No. **23-0717.21**, issued to E.S. Windows, LLC, for their Series "ES-P252 Thermally Broken" Aluminum Fixed Window – L.M.I., approved on 08/24/23 and expiring on 01/16/25.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0831.10
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **18-05D**, titled “ES-P252 Thermal Aluminum Fixed Wdw. (L.M.I)”, sheets 1, 1.1, 1.2, 2, 3, 4, 5, 5.1 and 6 of 6, dated 12/27/17, with revision **E** dated 08/21/26, 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 8th Edition (2023) and FBC 9th Edition (2026), dated 08/24/26, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-16**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

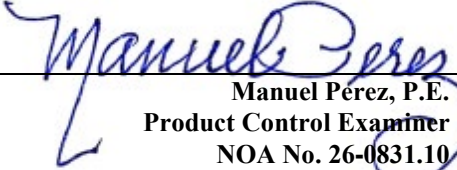
1. Notice of Acceptance No. **26-0625.02** issued to **Kuraray America, Inc.** for their “SentryGlas® (Clear and White) Glass Interlayers” dated 07/23/26, expiring on 07/04/28.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, with **FBC 9th Edition (2026)**, inclusive special limitation use of anchors for saltwater environment to comply with chapter 17; and of no financial interest, dated August 25, 2026, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **24-1101.03**, issued to E.S. Windows, LLC, for their Series “ES-P252 Thermally Broken” Aluminum Fixed Window – L.M.I., approved on 11/21/24 and expiring on 01/16/30.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0831.10
Expiration Date: January 16, 2030
Approval Date: September 24, 2026

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

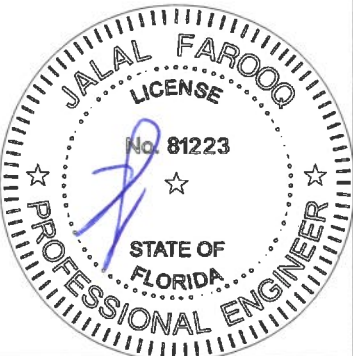
ES-P252
THERMAL ALUMINUM FIXED WINDOW

NOA APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER
WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING
MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION NOA
WILL APPLY TO ENTIRE SYSTEM.

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

WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

AUG 26 2026



date: 12-27-17		drawing no.	
scale: 3/8"=1'-0"		18-05D	
dr. by: TARIQ		sheet 1 of 6	
revisions:			
no	date	by	description
A	06.01.18		NO CHANGE THIS SHEET
B	11.09.20		UPDATED TO 2020 FBC
C	06.29.23		UPDATED TO 2023 FBC
D	10.03.24		GENERAL REVISION
E	08.21.26		UPDATED TO 2026 FBC
chk. by:			

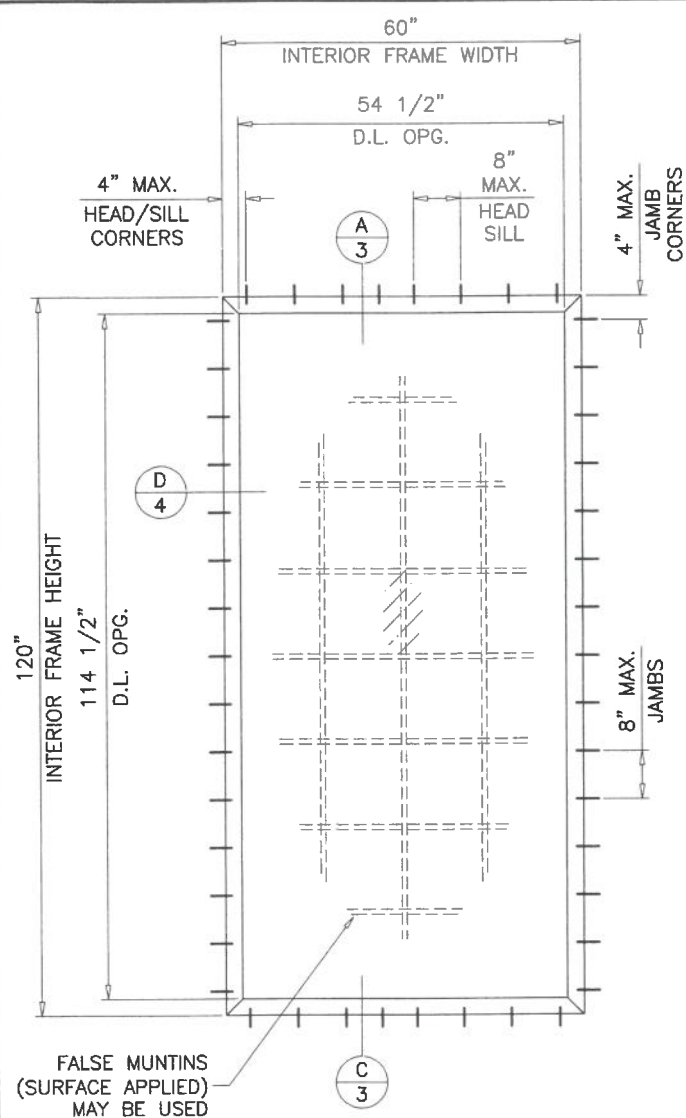
ES--P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX.

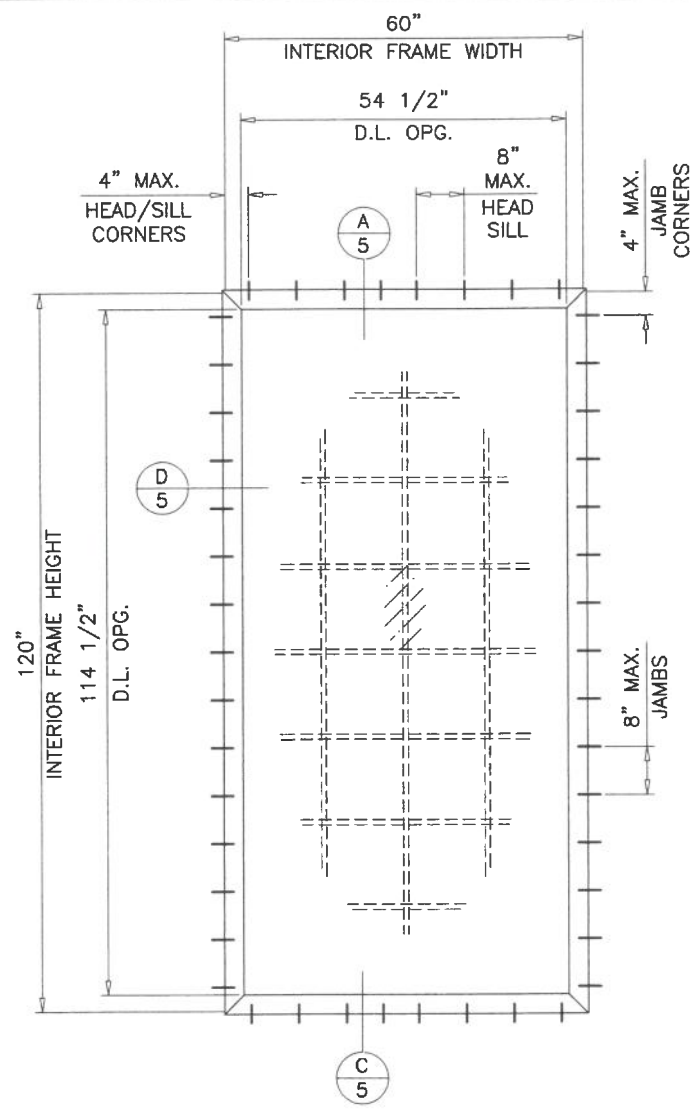
FAX. (305) 638-5158

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

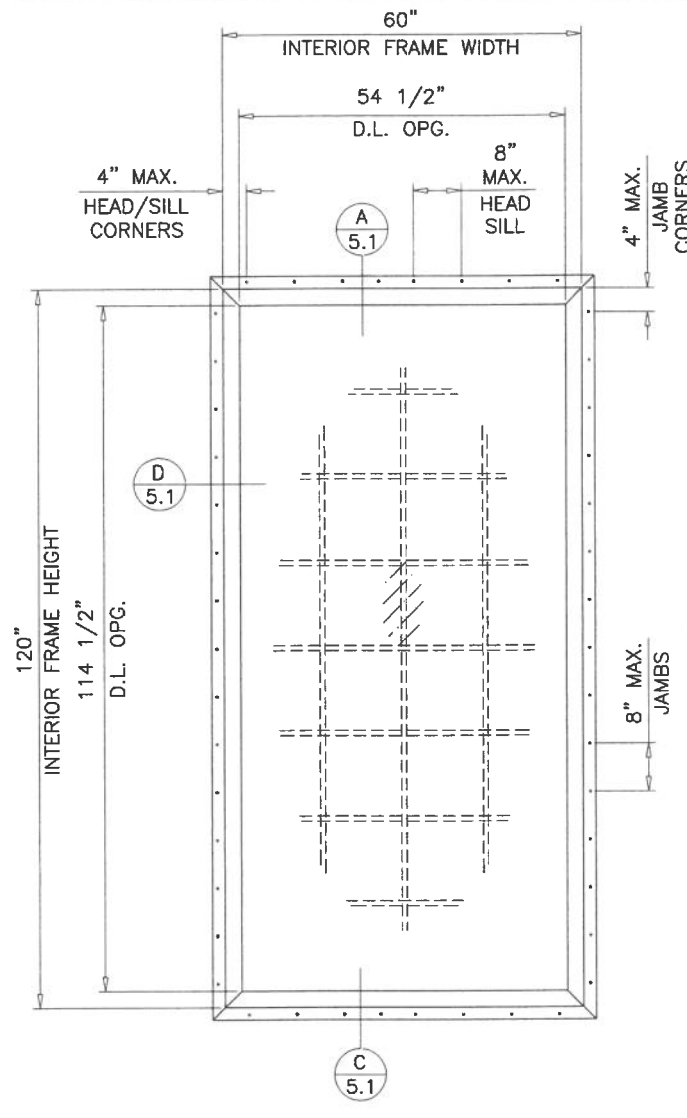
COMP-ANL\18-05D-ES



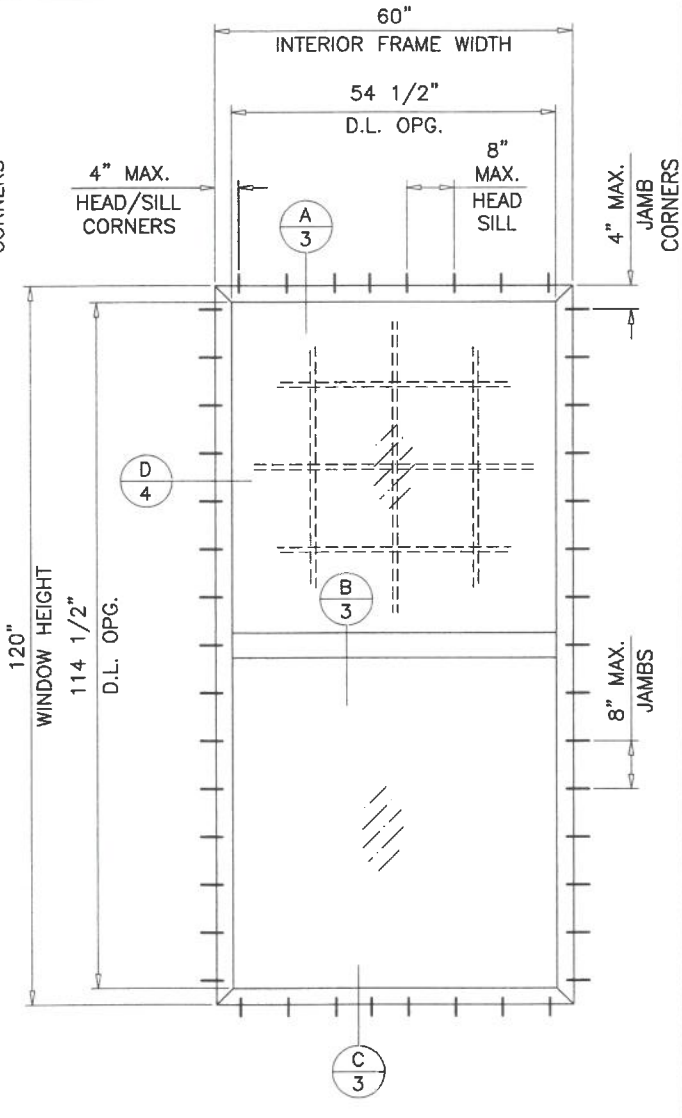
TYPICAL ELEVATION
FLUSH FRAMES



TYPICAL ELEVATION
FLANGE FRAMES

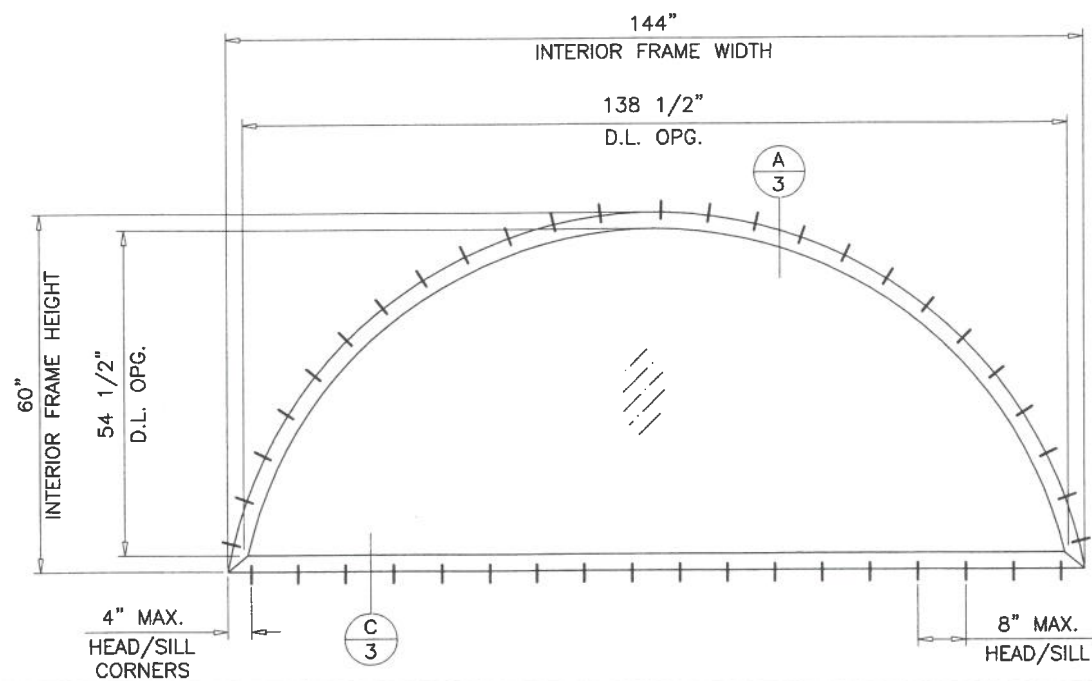


TYPICAL ELEVATION
FLUSH FRAMES WITH FINS



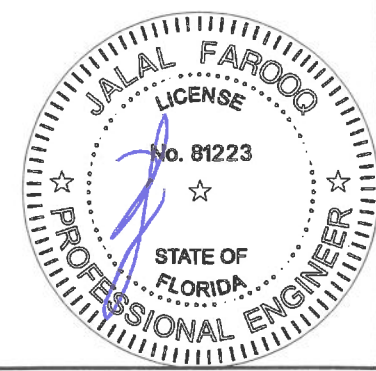
NOTE:
FOR FLUSH FRAME WINDOWS WITH NAIL FINS LIMIT
MAX. DESIGN LOADS TO +70.0, -75.0 PSF
MAX. SIZE TO 60" W X 120" HT.
MAX. INTERIOR FRAME WINDOW AREA TO 50 SQ. FT.

DAYLITE OPENINGS:
D.L.O. HEIGHT = WINDOW HEIGHT - 5.50"
D.L.O. WIDTH = WINDOW WIDTH - 5.50"



PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **26-0831.10**
Expiration Date: **01/16/2030**
By: *Manuel Perez*
Miami-Dade Product Control

AUG 26 2026



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

COMP-ANL\18-05D-ES

ES-P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)

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

18-05D

revisions:	no.	date	by	description
	A	06.01.18		NO CHANGE THIS SHEET
	B	11.09.20		UPDATED TO 2020 FBC
	C	06.29.23		UPDATED TO 2023 FBC
	D	10.03.24		GENERAL REVISION
	E	06.21.26		NO CHANGE THIS SHEET

date: 12-27-17

scale: 3/8"=1'-0"

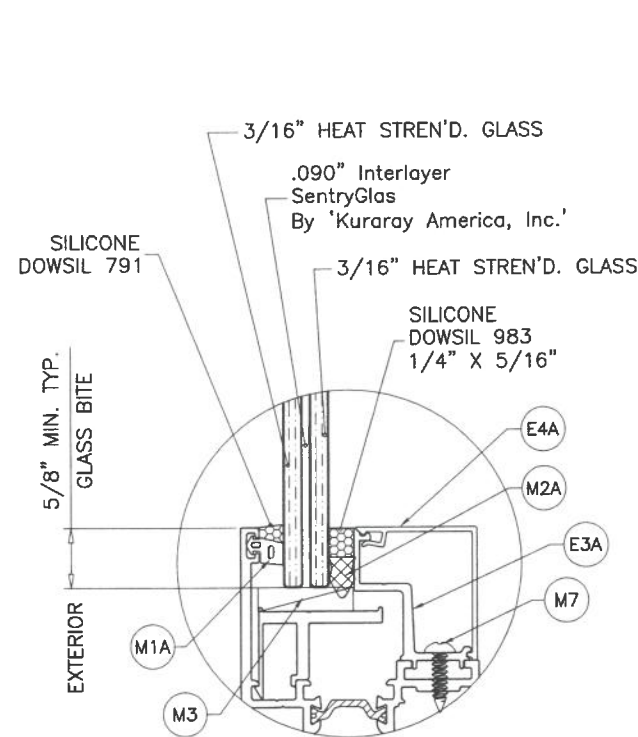
dr. by: TARIQ

chk. by:

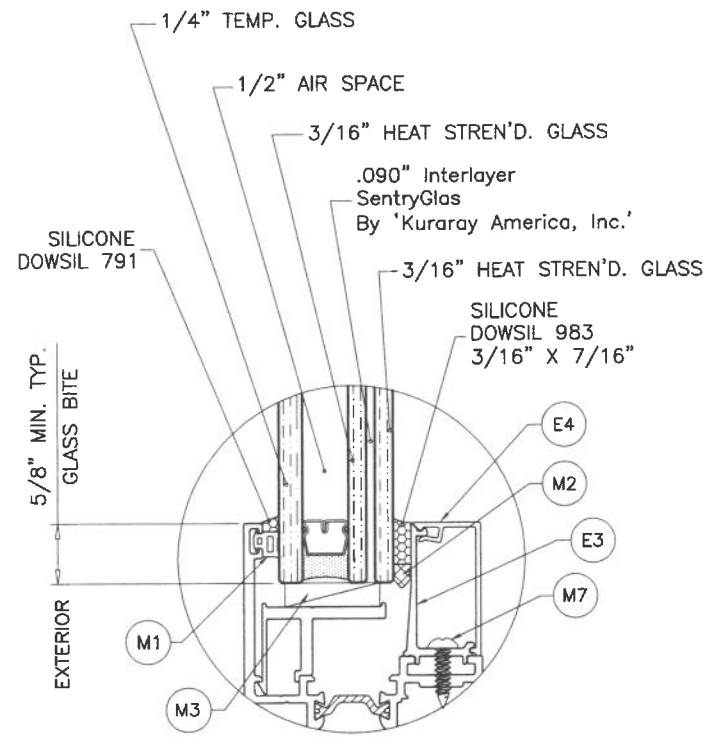
drawing no.

18-05D

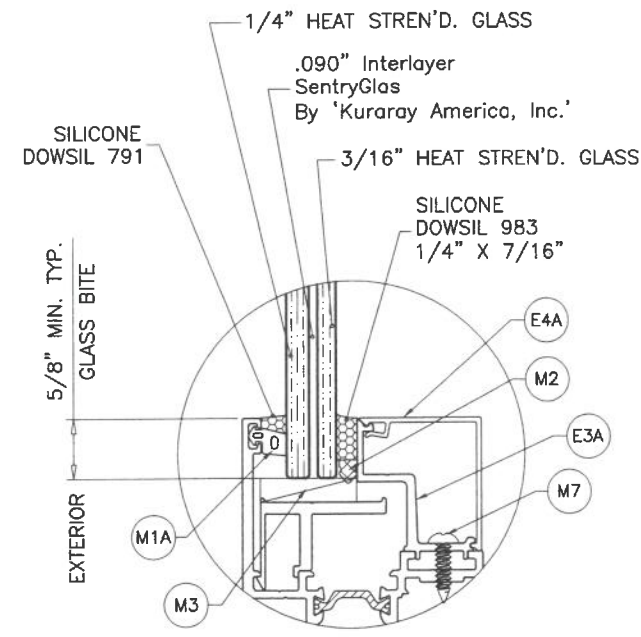
sheet 1.1 of 6



GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS



GLASS TYPE 'Ai'
1-3/16" OVERALL INSUL. LAM. GLASS



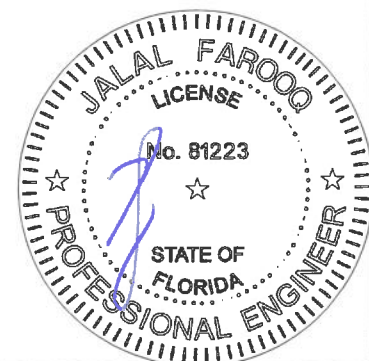
GLASS TYPE 'B'
1/2" OVERALL LAM. GLASS

GLAZING OPTIONS

1/2" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **26-0831.10**
Expiration Date: **01/16/2030**
By: *Manuel Bern*
Miami-Dade Product Control

AUG 26 2026



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-05D-ES

ES-P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)

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

revisions:		no	date	by	description
	A	06.01.18			NO CHANGE THIS SHEET
	B	11.09.20			UPDATED TO 2020 FBC
	C	06.29.23			UPDATED TO 2023 FBC
	D	10.03.24			GENERAL REVISION
	E	08.21.26			NO CHANGE THIS SHEET

date: 12-27-17

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.

18-05D

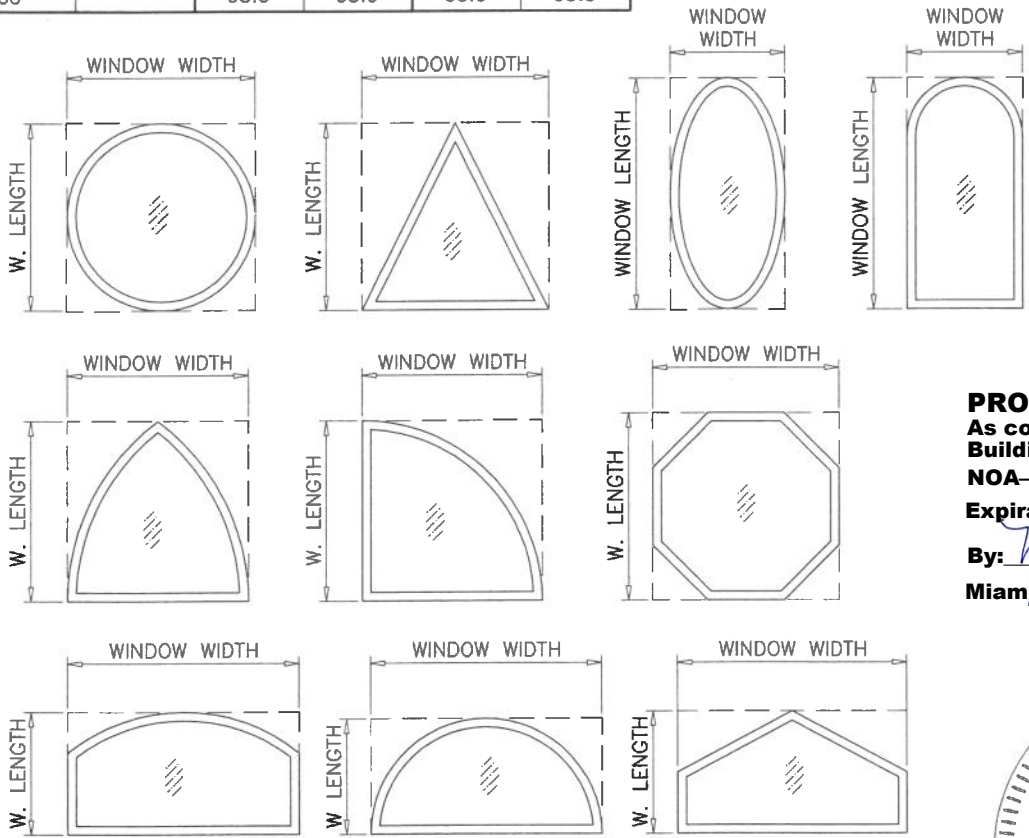
sheet 1.2 of 6

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	60"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	150.0	110.0	150.0
48"		110.0	137.5	110.0	137.5
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		110.0	110.0	110.0	110.0
72"		110.0	110.0	110.0	110.0
78"		110.0	110.0	110.0	110.0
84"		110.0	110.0	110.0	110.0
30"	66"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	150.0	110.0	150.0
48"		110.0	137.5	110.0	137.5
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0
78"		100.0	100.0	100.0	100.0
84"		100.0	100.0	100.0	100.0
30"	72"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	150.0	110.0	150.0
48"		110.0	137.5	110.0	137.5
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		91.7	91.7	91.7	91.7
84"		91.7	91.7	91.7	91.7
30"	78"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	150.0	110.0	150.0
48"		110.0	135.0	110.0	135.0
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		84.6	84.6	84.6	84.6
84"		84.6	84.6	84.6	84.6
30"	84"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	135.0	110.0	135.0
48"		110.0	135.0	110.0	135.0
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		84.6	84.6	84.6	84.6
84"		78.6	78.6	78.6	78.6

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).

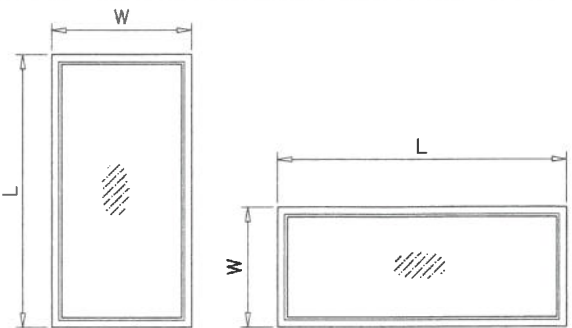
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	90"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	135.0	110.0	135.0
48"		110.0	135.0	110.0	135.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		84.6	84.6	84.6	84.6
84"		67.9	67.9	67.9	67.9
30"	96"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	135.0	110.0	135.0
48"		110.0	135.0	110.0	135.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		73.1	73.1	73.1	73.1
84"		67.9	67.9	67.9	67.9
30"	102"	110.0	150.0	110.0	150.0
36"		110.0	135.0	110.0	135.0
42"		110.0	135.0	110.0	135.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		79.2	79.2	79.2	79.2
78"		73.1	73.1	73.1	73.1
84"		67.9	67.9	67.9	67.9
30"	108"	110.0	150.0	110.0	150.0
36"		110.0	135.0	110.0	135.0
42"		110.0	135.0	110.0	135.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		79.2	79.2	79.2	79.2
78"		73.1	73.1	73.1	73.1
30"	114"	110.0	150.0	110.0	150.0
36"		110.0	135.0	110.0	135.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		86.4	86.4	86.4	86.4
72"		79.2	79.2	79.2	79.2
30"	120"	110.0	135.0	110.0	135.0
36"		110.0	135.0	110.0	135.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		86.4	86.4	86.4	86.4
72"		79.2	79.2	79.2	79.2

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	126"	110.0	135.0	110.0	135.0
36"		110.0	135.0	110.0	135.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		95.0	95.0	95.0	95.0
66"		86.4	86.4	86.4	86.4
30"	132"	110.0	135.0	110.0	135.0
36"		110.0	110.0	110.0	110.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"	138"	110.0	110.0	110.0	110.0
36"		110.0	110.0	110.0	110.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"	144"	95.0	95.0	95.0	103.9
30"		110.0	135.0	110.0	135.0
36"		110.0	110.0	110.0	110.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		95.0	95.0	95.0	102.8
60"		95.0	95.0	95.0	95.0



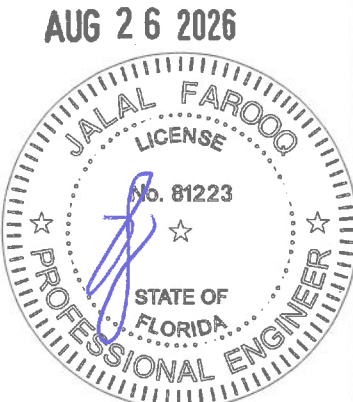
ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

LIMIT MAX. LOADS FOR ALTERNATE SHAPES TO ±95.0 PSF



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

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Miami-Dade Product Control

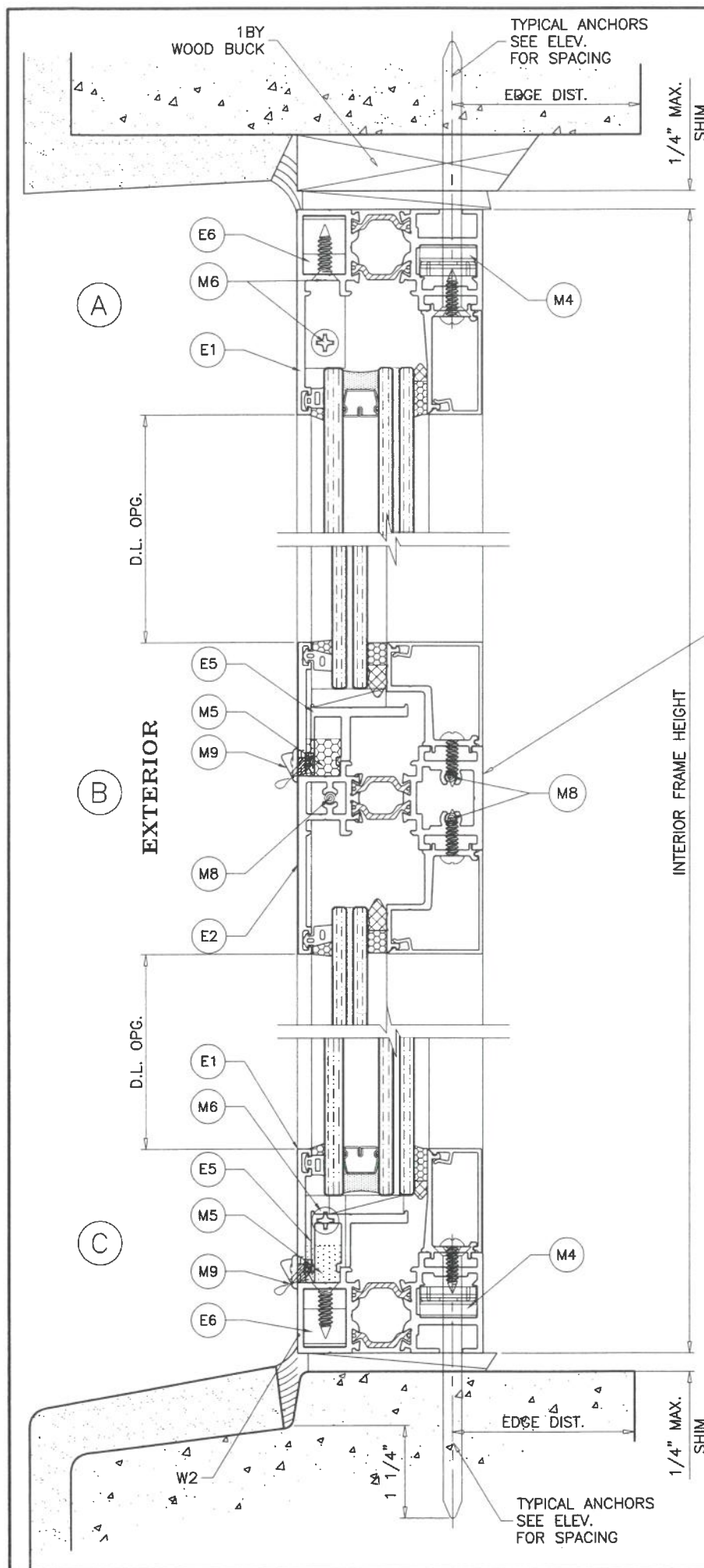


AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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TEL. (305) 262-6978
FAX. (305) 262-6978
(C.A.N. 3538)

ES-P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

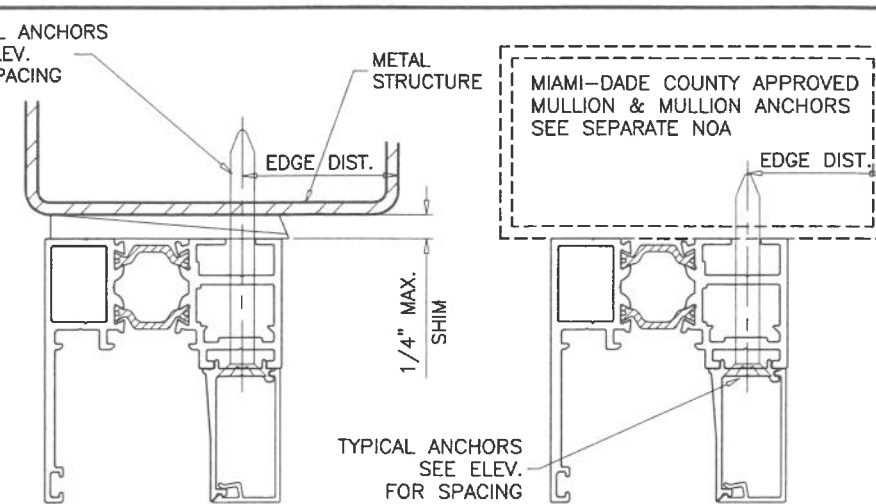
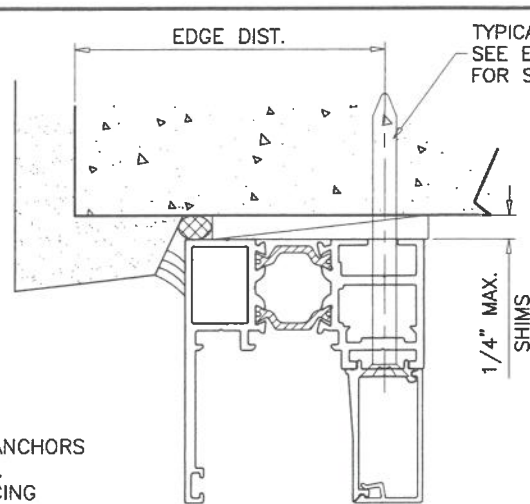
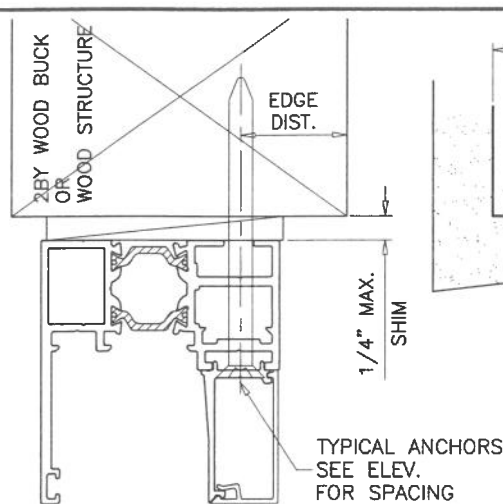
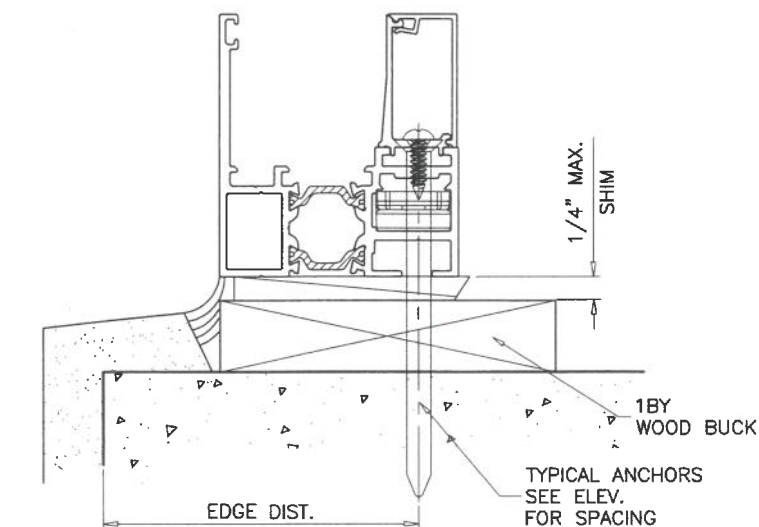
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	B	11.09.20		UPDATED TO 2020 FBC
	C	05.29.23		NO CHANGE THIS SHEET
	D	10.03.24		GENERAL REVISION
	E	08.21.26		UPDATED TO 2026 FBC
date:	12-27-17			
scale:	1/2" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	18-05D			
sheet	2 of 6			

COMP-ANL 18-05D-ES



LIMIT MAX. DESIGN LOADS
FOR WINDOWS WITH IMPOST AS FOLLOWS

WINDOW WIDTH MAX.	LOAD CAPACITY - PSF
54"	90.0
60"	75.0



WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR

INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

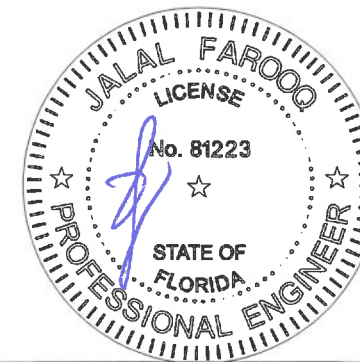
CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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Miami-Dade Product Control

AUG 26 2026



ES-P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)

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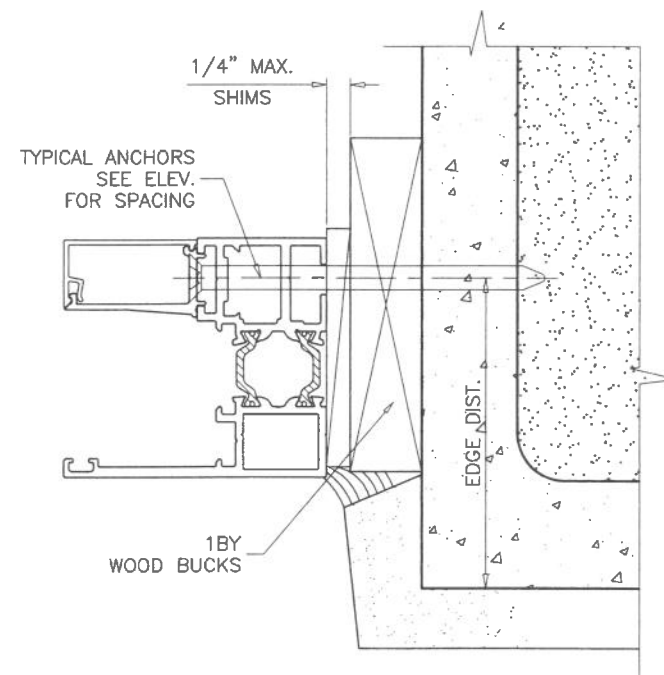
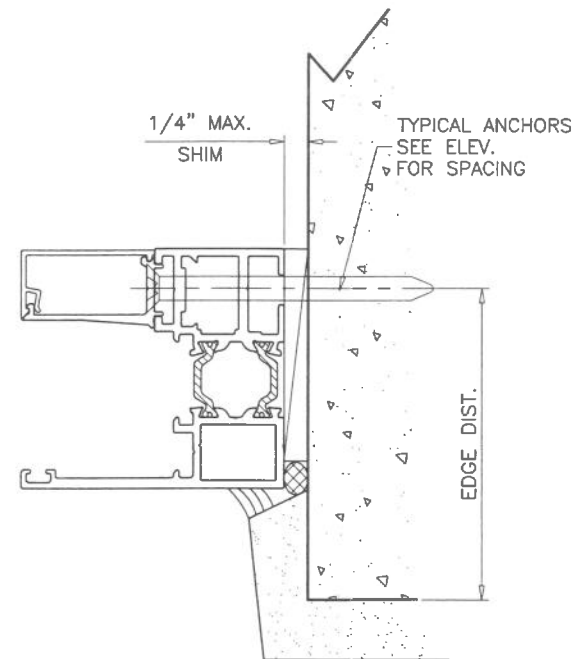
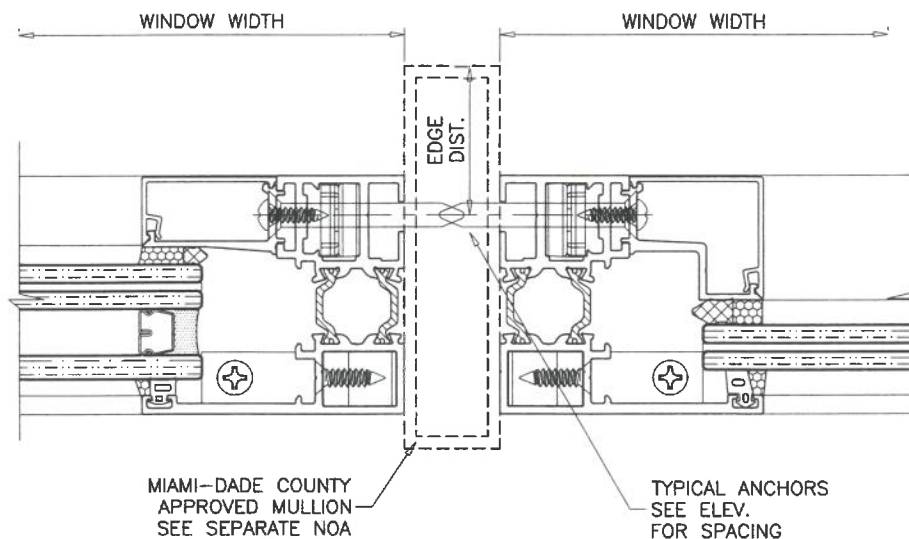
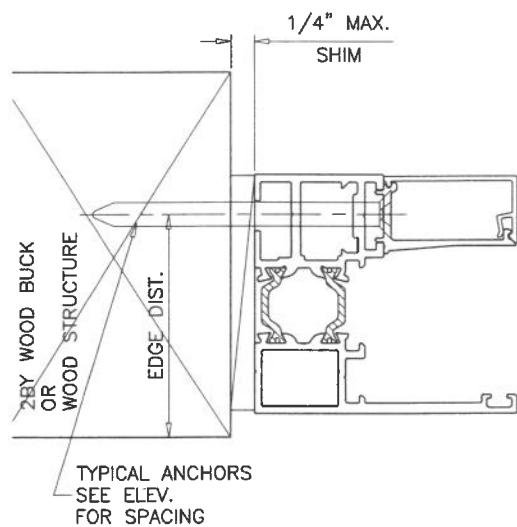
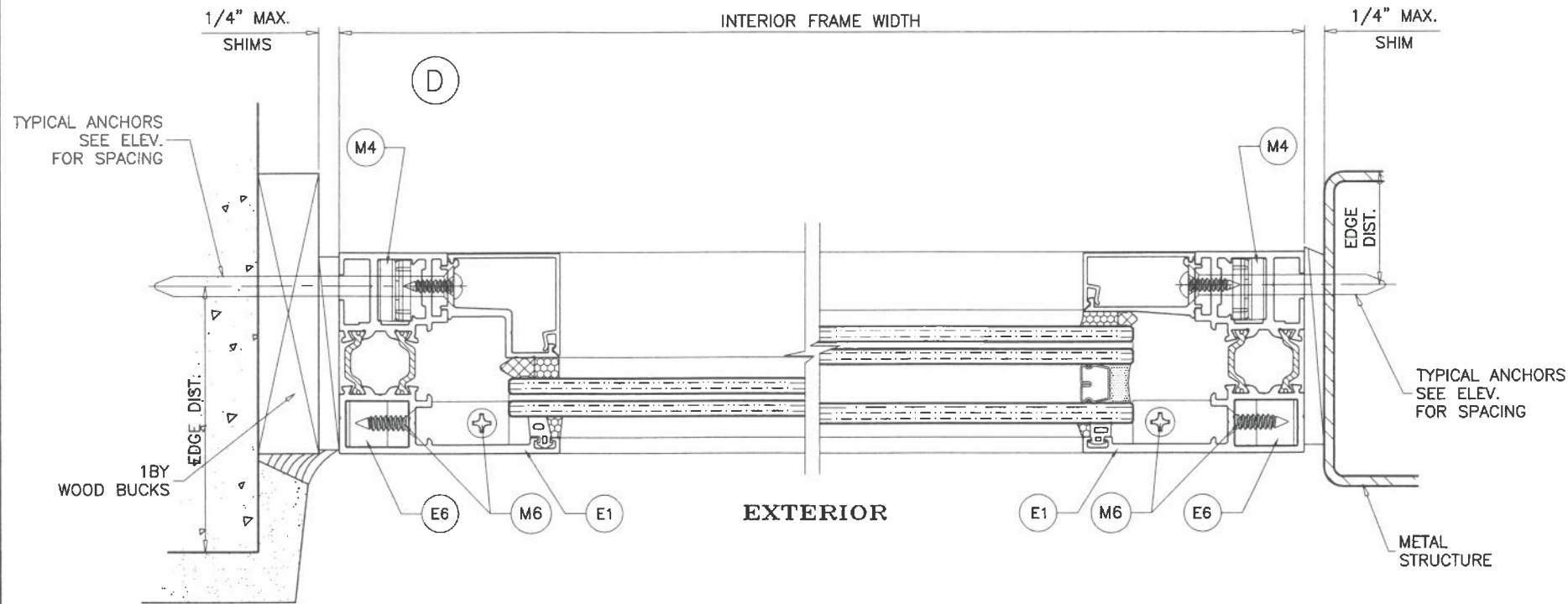
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:	no	date	description	by
	A	06.01.18	REV. PER PER COMMENTS	
	B	11.09.20	UPDATED TO 2020 FBC	
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	D	10.03.24	GENERAL REVISION	
	E	08.21.26	NO CHANGE THIS SHEET	

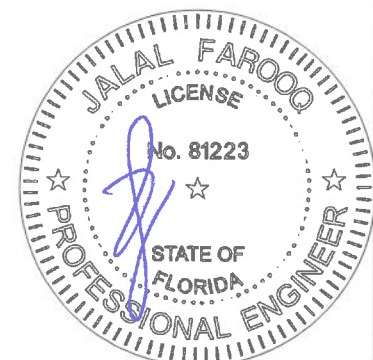
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dr. by: TARIQ
chk. by:

drawing no.
18-05D
sheet 3 of 6

COMP-ANL\18-05D-ES



PRODUCT REVISED
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 Miami-Dade Product Control
AUG 26 2026

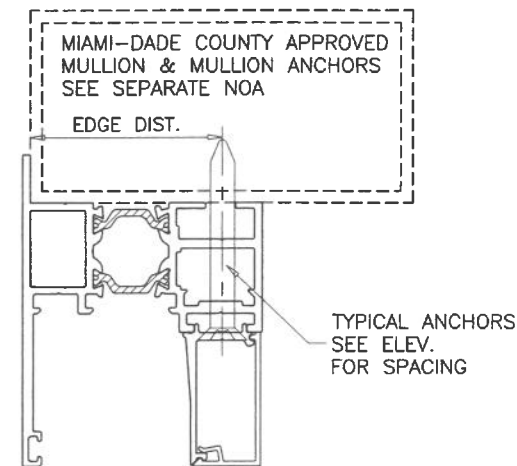
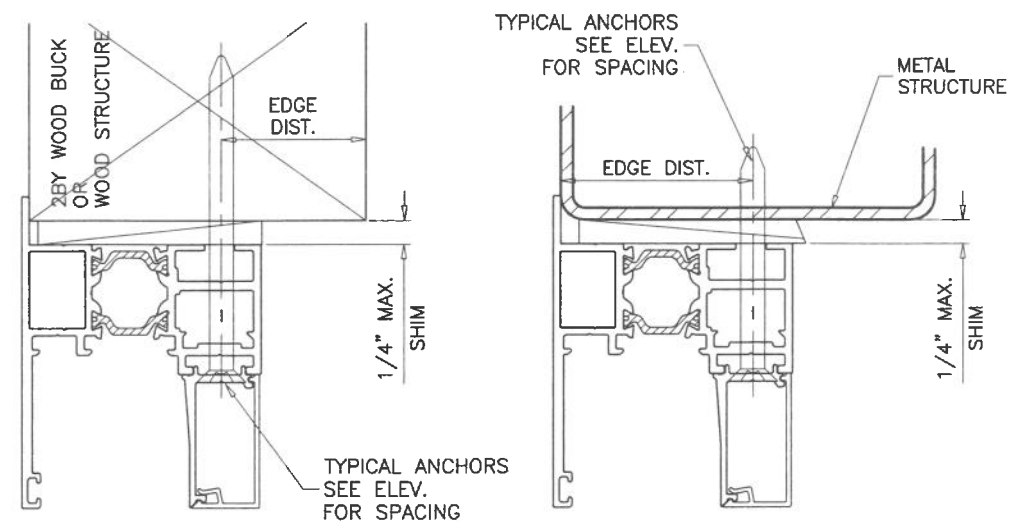
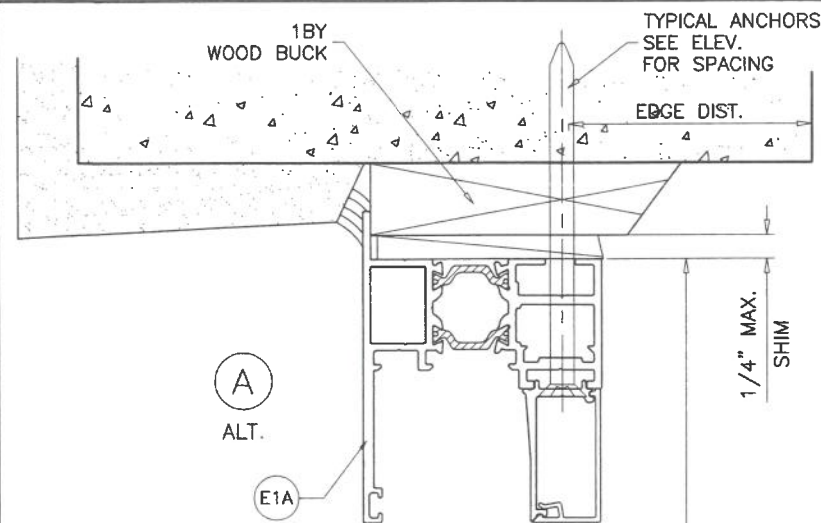


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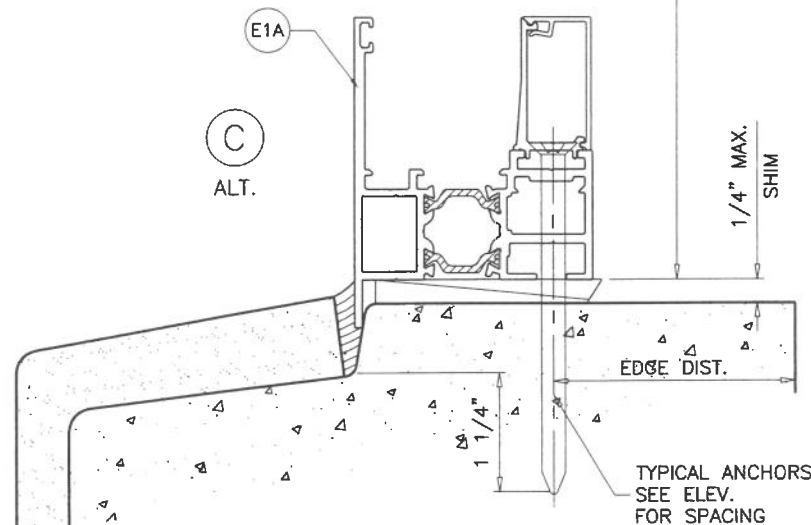
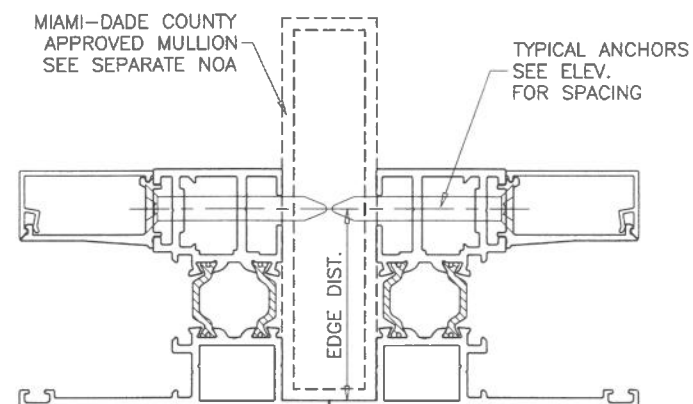
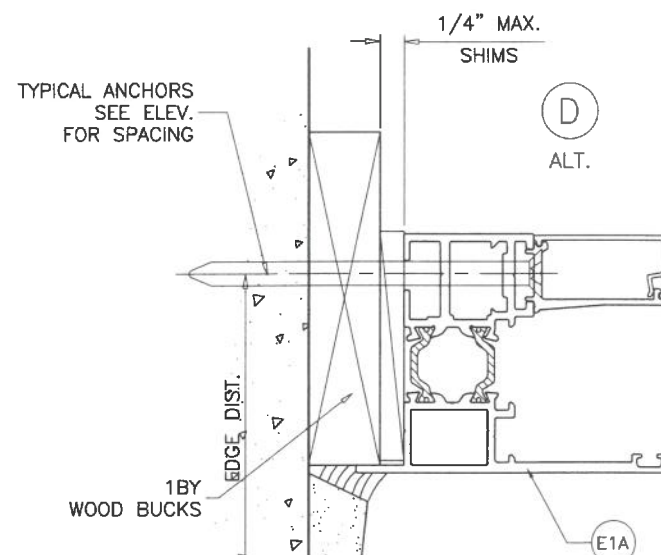
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 dr. by: TARIQ
 chk. by:
 drawing no. **18-05D**
 sheet 4 of 6

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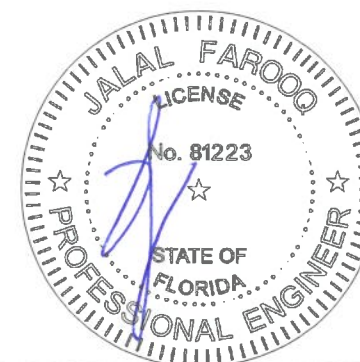


INTERIOR FRAME HEIGHT



INSTALLATION DETAILS WITH FLANGE FRAMES SEE SHEETS 3 & 4 FOR WINDOW DETAILS

PRODUCT REVISED
As complying with the Florida Building Code
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Miami-Dade Product Control
AUG 26 2026



ES-P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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dr. by: TARIQ
chk. by:
drawing no.
18-05D
sheet 5 of 6

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C.A.N. 3538

COMP-ANL 18-05D-ES

ILLUSTRATIVE DTLS. ONLY
EXT. OR INT. FINISHES
NOT BY 'E.S. WDW.'

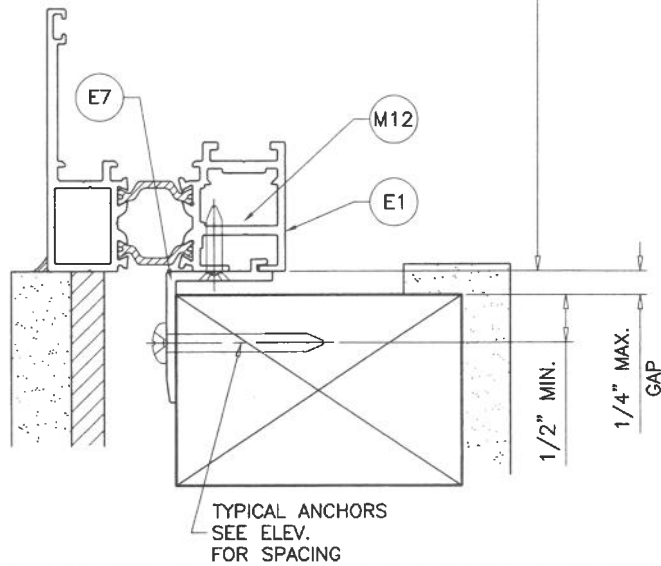
TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

A
ALT.

EXTERIOR

INTERIOR FRAME HEIGHT

1/2" MIN.
1/4" MAX.
GAP

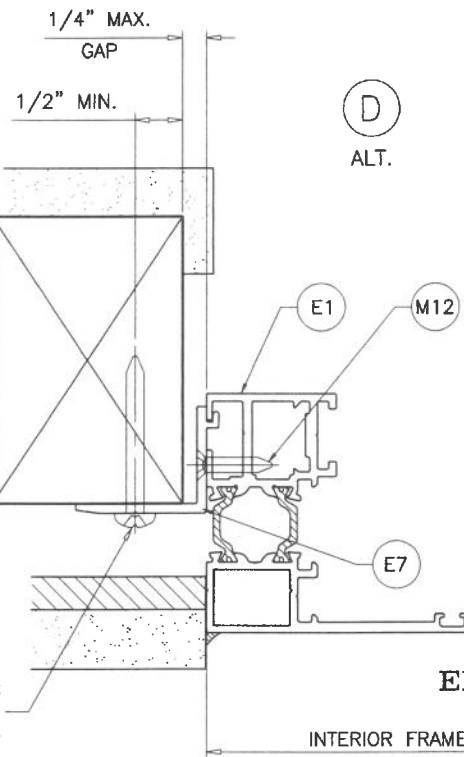


TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#10 SMS OR WOOD SCREWS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/4" MIN. PENETRATION INTO WOOD

TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



D
ALT.

EXTERIOR

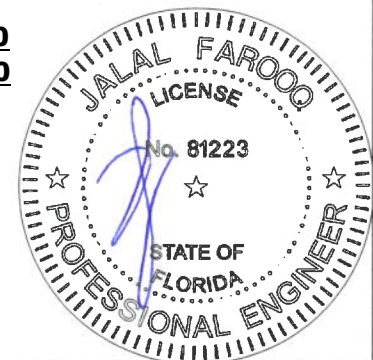
INTERIOR FRAME WIDTH

INSTALLATION DETAILS FLUSH FRAMES WITH NAIL FINS

SEE SHEETS 3 & 4 FOR WINDOW DETAILS

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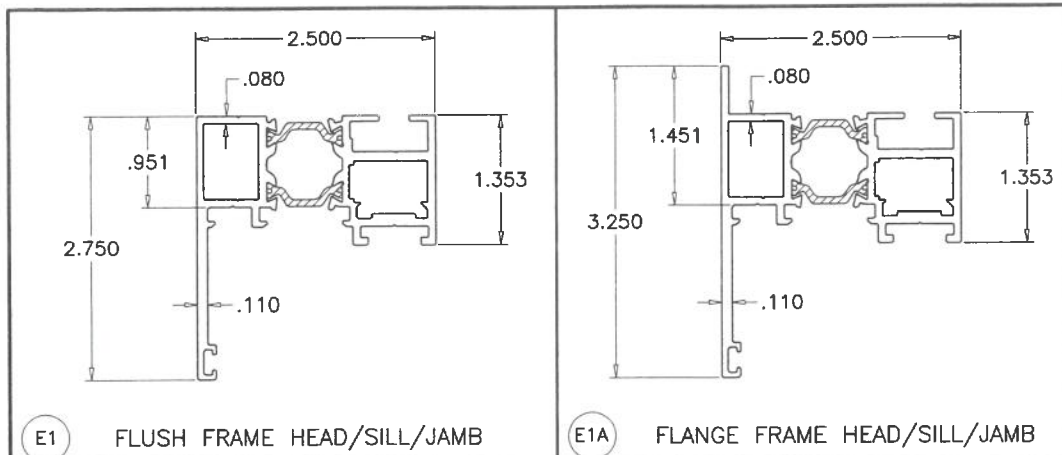
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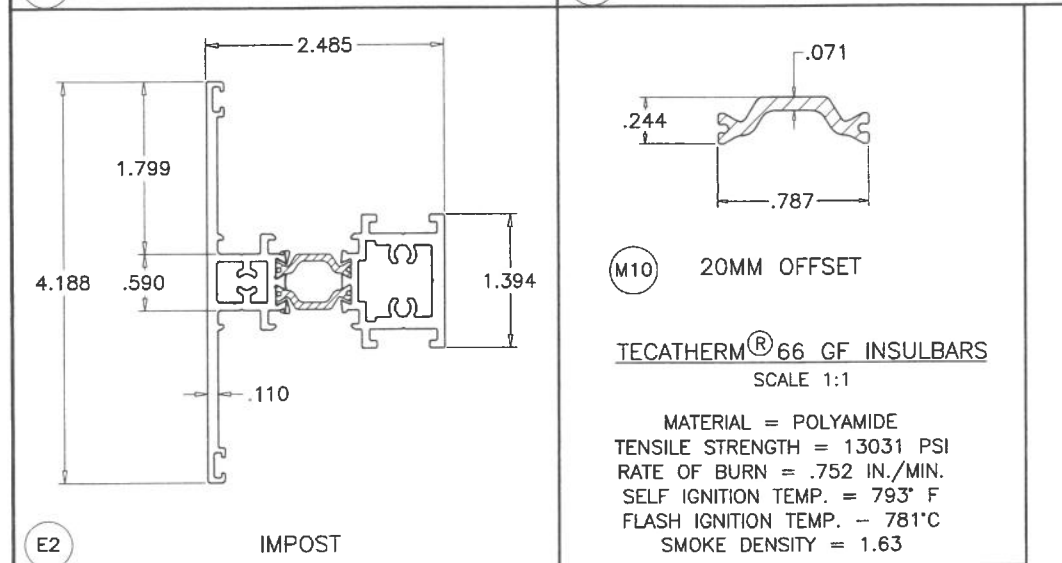
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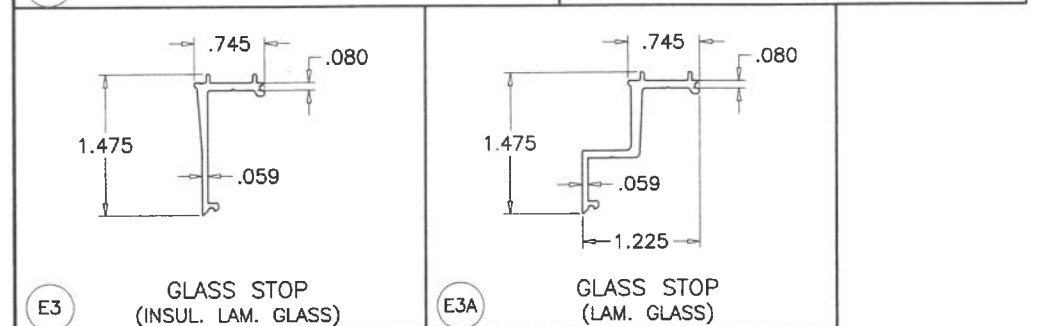
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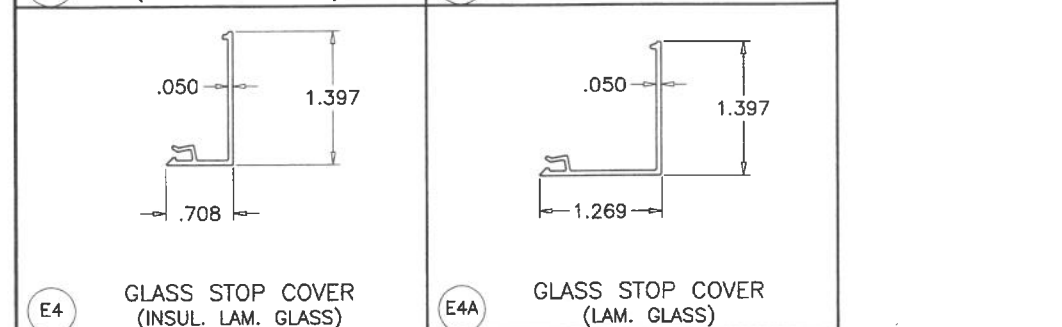
E1 FLUSH FRAME HEAD/SILL/JAMB



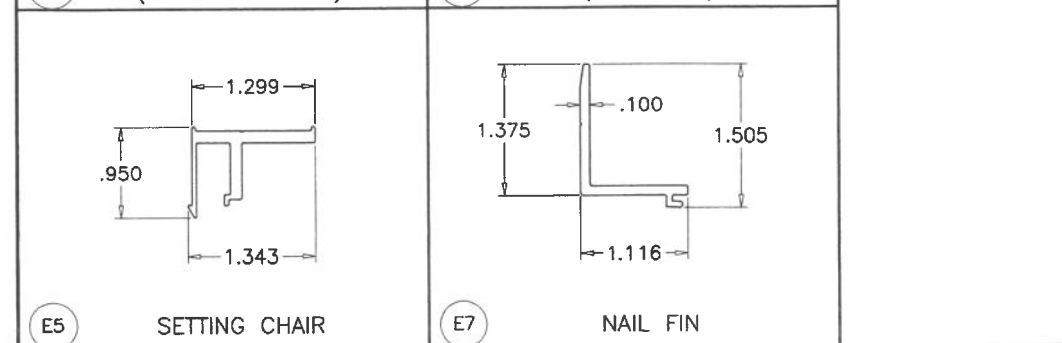
E2 IMPOST



E3A GLASS STOP (LAM. GLASS)

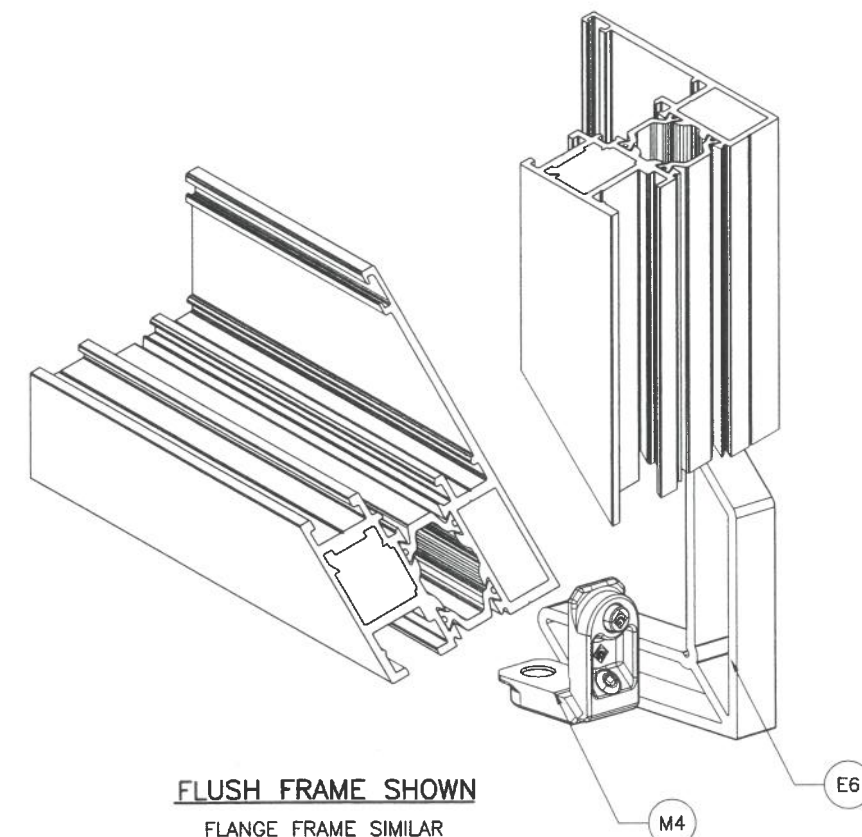


E4A GLASS STOP COVER (LAM. GLASS)



E7 NAIL FIN

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-P252-501	4	FLUSH FRAME HEAD/SILL/JAMB	6063-T6	-
E1A	-	4	FLANGE FRAME HEAD/SILL/JAMB	6063-T6	-
E2	ES-P251-513	AS REQD.	IMPOST	6063-T6	-
E3	ES-P252-005	4	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
E3A	ES-P252-031	4	GLASS STOP (LAM. GLASS)	6063-T5	-
E4	ES-P252-006	1	GLASS STOP COVER (INSUL. LAM. GLASS)	6063-T6	-
E4A	ES-P252-032	1	GLASS STOP COVER (LAM. GLASS)	6063-T6	-
E5	ES-P251-007	2/ LITE	SETTING CHAIR, 4" LONG	6063-T5	-
E6	ES-P251-018	AS REQD.	CORNER KEY	6005-T5	-
E7	TBA-002	AS REQD.	NAIL FIN	6063-T6	-
M1	ES-P251-G02	AS REQD.	GLAZING GASKET (EXTERIOR)	EPDM	TREMCO TR-19619SW, DUROMETER 70±5 SHORE A
M1A	ES-UN625-G02	AS REQD.	GLAZING GASKET (EXTERIOR)	SILICONE	DUROMETER 70±5 SHORE A
M2	ES-SD451-G04	AS REQD.	GLAZING GASKET (INTERIOR)	EPDM	TREMCO TR-3234E, DUROMETER 70±5 SHORE A
M2A	ES-H340-G02	AS REQD.	GLAZING GASKET (INTERIOR)	SILICONE	DUROMETER 60±5 SHORE A
M3	ES-21-B04A	2/ LITE	SETTING BLOCK, 4" LONG, AT 1/4 POINTS	EPDM	SOLUCIONESENCAUCHO, DUROMETER 80±5 SHORE A
M4	0337	1/ CORNER	CORNER JOINT	CAST ALUMINUM	MASTER
M5	WPSA-N1	-	3/4" X 3/4" X 2" RETICULATED FOAM 30PPI	-	-
M6	#10 X 3/4"	AS REQD.	ANGLE FASTENERS	ST. STEEL	FH SMS
M7	#8 X 5/8"	AS REQD.	GLASS STOP FASTENERS	ST. STEEL	PH SMS
M8	#10 X 1-1/4"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M9	WA2L	2	WEEP COVER	PLASTIC	-
M10	2479	AS REQD.	INSULBAR 20MM OFFSET	POLYAMIDE	ENSINGER
M11	791	-	GLAZING COMPOUND	SILICONE	DOWSIL
M12	#12 X 3/4"	-	NAIL FIN FASTENERS AT 3" FROM ENDS & 12" O.C.	ST. STEEL	FH SMS

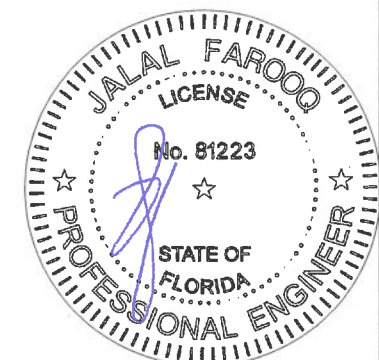


FLUSH FRAME SHOWN
FLANGE FRAME SIMILAR

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

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	A	06.01.18	NO CHANGE THIS SHEET
	B	11.09.20	UPDATED TO 2020 FBC
	C	06.29.23	NO CHANGE THIS SHEET
	D	10.03.24	GENERAL REVISION
	E	08.21.26	NO CHANGE THIS SHEET

date: 12-27-17
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-05D
sheet 6 of 6