



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)

E.S. Windows, LLC  
3550 NW 49<sup>th</sup> 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 through 6 of 6, dated 12/27/17, with revision **C** dated 06/29/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, 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.

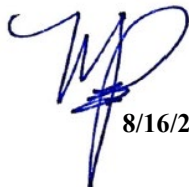
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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. 20-1116.02** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



  
8/16/23

NOA No. 23-0717.21  
Expiration Date: January 16, 2025  
Approval Date: August 24, 2023  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 18-0312.02)*
2. Drawing No. **18-05D**, titled "ES-P252 Thermal Aluminum Fixed Wdw. (L.M.I)", sheets 1 through 6 of 6, dated 12/27/17, with revision **B** dated 11/09/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-1116.02)*

**B. TESTS**

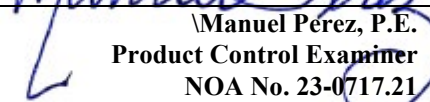
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up 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)*
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  
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 6<sup>th</sup> Edition (2017)**, dated 01/05/18, updated on 11/16/20 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. 20-1116.02)*
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. 23-0717.21  
Expiration Date: January 16, 2025  
Approval Date: August 24, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**E. MATERIAL CERTIFICATIONS**

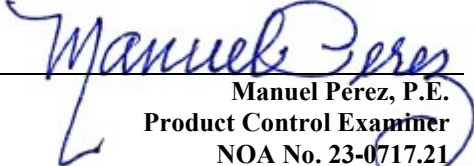
1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. 0.315-inch (Length) by 0.26-inch (Height) by 0.0059-inch (Thickness) (8x6.6x0.15mm) Aluminum Low Profile Insulated-Glass spacer **Helima AH 800 N** (P/N.: USA K 001 000 000 R7) with Aluminum Alloy **AW-3000** (F<sub>t</sub><sub>u</sub>=17 ksi and F<sub>t</sub><sub>y</sub>=12ksi) 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 6<sup>th</sup> Edition (2017)**, with **FBC 7<sup>th</sup> Edition (2020)**, and of no financial interest, dated November 16, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
**(Submitted under NOA No. 20-1116.02)**
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. **18-0312.02**, issued to E.S. Windows, LLC, for their Series “ES-P252 Thermally Broken” Aluminum Fixed Window – L.M.I., approved on 01/16/20 and expiring on 01/16/25.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0717.21

Expiration Date: January 16, 2025  
Approval Date: August 24, 2023

**E.S. Windows, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **18-05D**, titled “ES-P252 Thermal Aluminum Fixed Wdw. (L.M.I)”, sheets 1 through 6 of 6, dated 12/27/17, with revision **C** dated 06/29/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

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

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, with **FBC 8<sup>th</sup> Edition (2023)**, and of no financial interest, dated July 14, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **20-1116.02**, issued to E.S. Windows, LLC, for their Series “ES-P252 Thermally Broken” Aluminum Fixed Window – L.M.I., approved on 02/25/21 and expiring on 01/16/25.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0717.21

Expiration Date: January 16, 2025  
Approval Date: August 24, 2023

**ES-P252**  
**THERMAL ALUMINUM FIXED WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.  
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

APPROVAL 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 APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

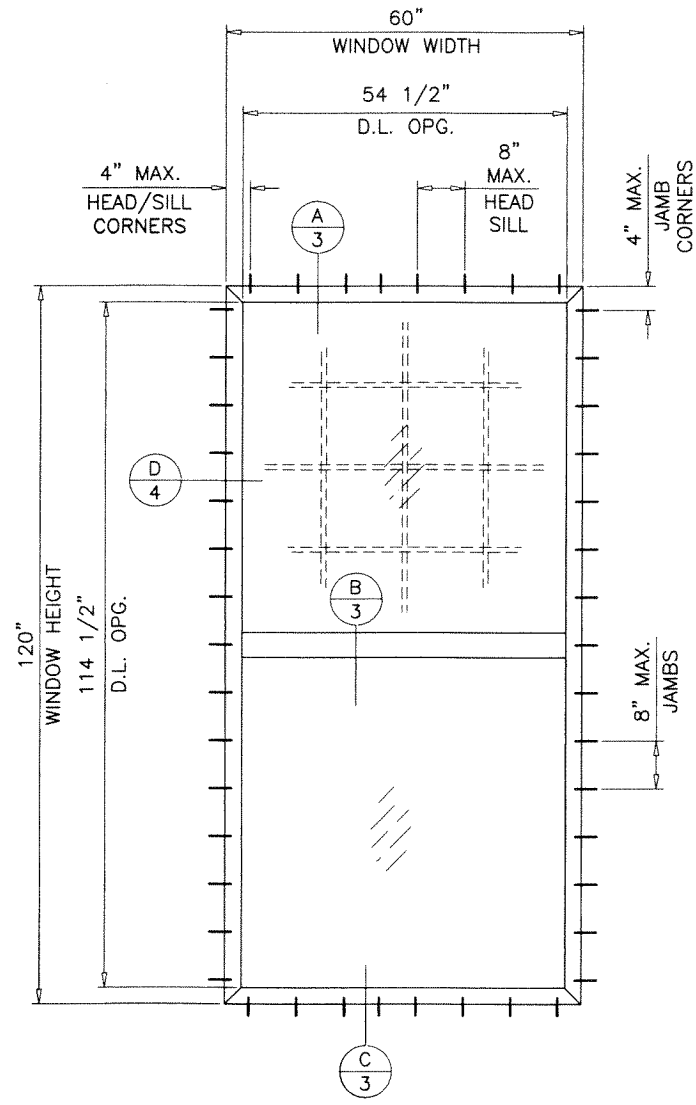
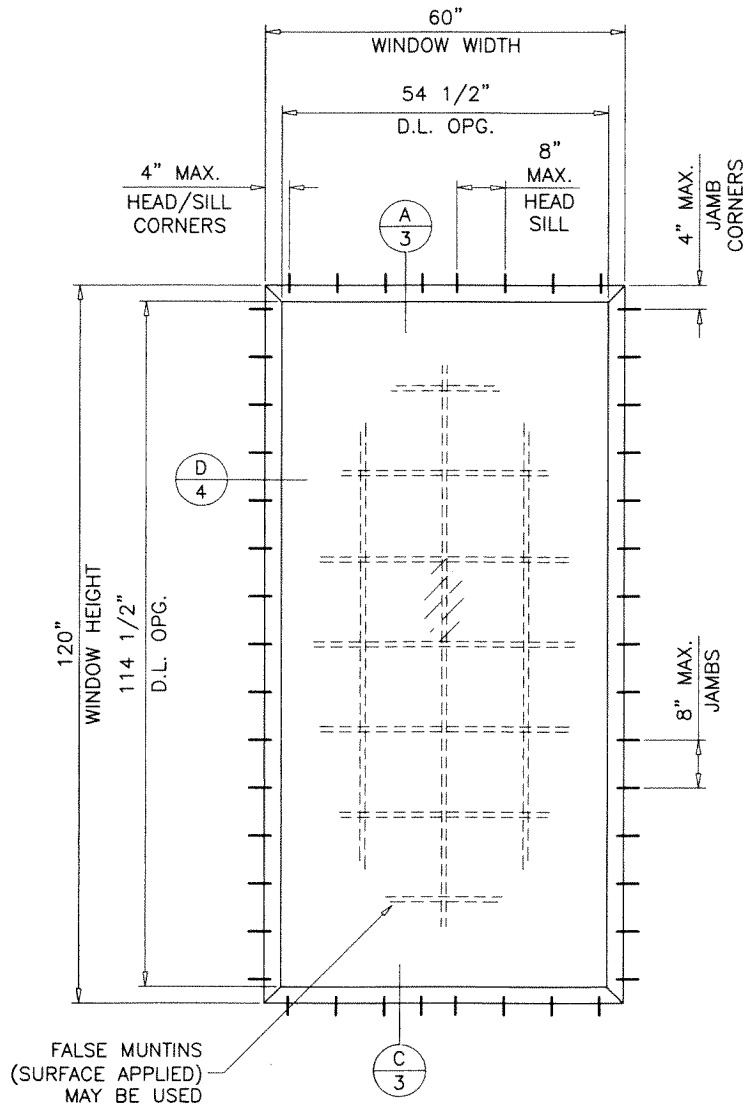
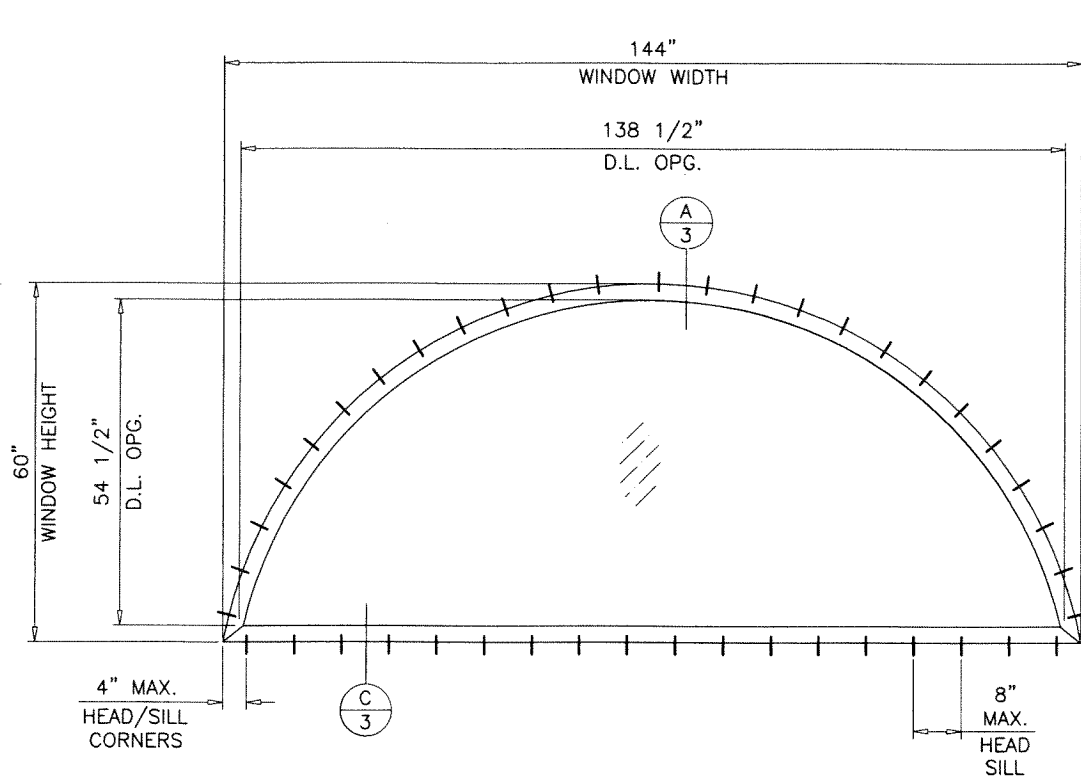
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

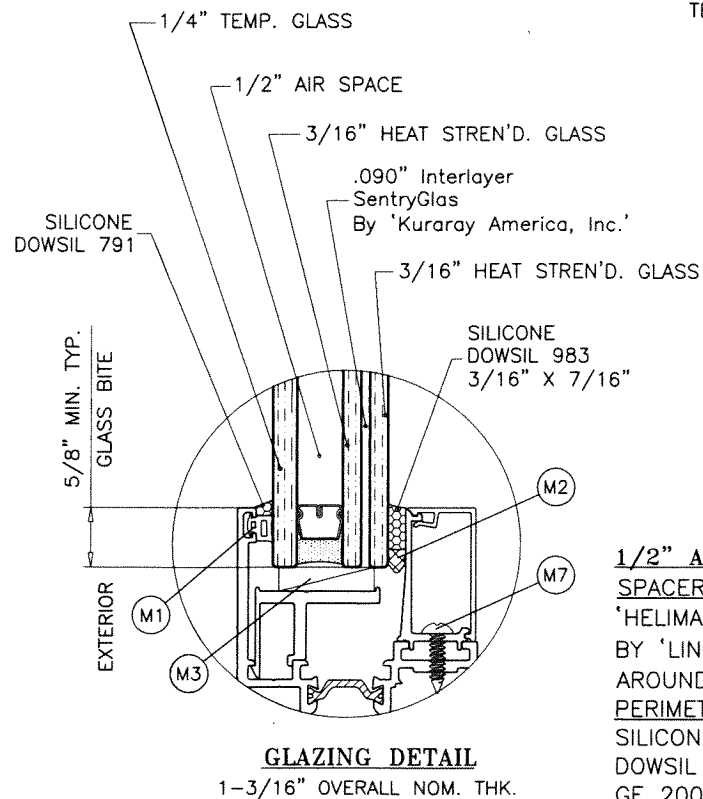
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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**  
TESTED UNITS



**GLAZING DETAIL**

1-3/16" OVERALL NOM. THK.

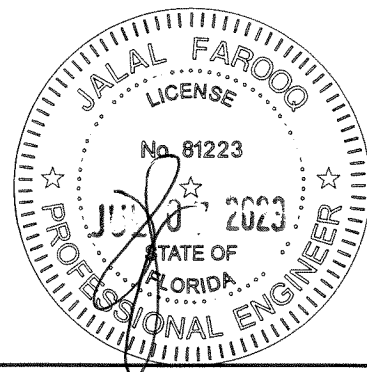
DAYLITE OPENINGS:  
D.L.O. HEIGHT = WINDOW HEIGHT - 5.50"  
D.L.O. WIDTH = WINDOW WIDTH - 5.50"

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

**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. 23-0717.21**  
**Expiration Date: 01/16/2025**  
By: *Manuel Perez*  
Miami-Dade Product Control



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

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

date: 12-27-17

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

dr. by: TARIQ

chk. by:

drawing no.

**18-05D**

sheet 1 of 6

**af c**

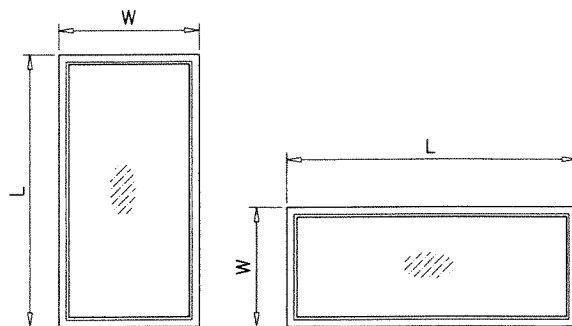
COMP-ANL\18-05D-ES



DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		1-3/16" OVERALL INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
30"	60"	110.0	135.0
36"		110.0	135.0
42"		110.0	125.7
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		110.0	110.0
72"		110.0	110.0
78"		110.0	110.0
84"		110.0	110.0
30"	66"	110.0	135.0
36"		110.0	135.0
42"		110.0	125.7
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		100.0	100.0
72"		100.0	100.0
78"		100.0	100.0
84"		100.0	100.0
30"	72"	110.0	135.0
36"		110.0	135.0
42"		110.0	125.7
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		100.0	100.0
72"		91.7	91.7
78"		91.7	91.7
84"		91.7	91.7
30"	78"	110.0	135.0
36"		110.0	135.0
42"		110.0	125.7
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		100.0	100.0
72"		91.7	91.7
78"		84.6	84.6
84"		84.6	84.6
30"	84"	110.0	135.0
36"		110.0	135.0
42"		110.0	125.7
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		100.0	100.0
72"		91.7	91.7
78"		84.6	84.6
84"		78.6	78.6

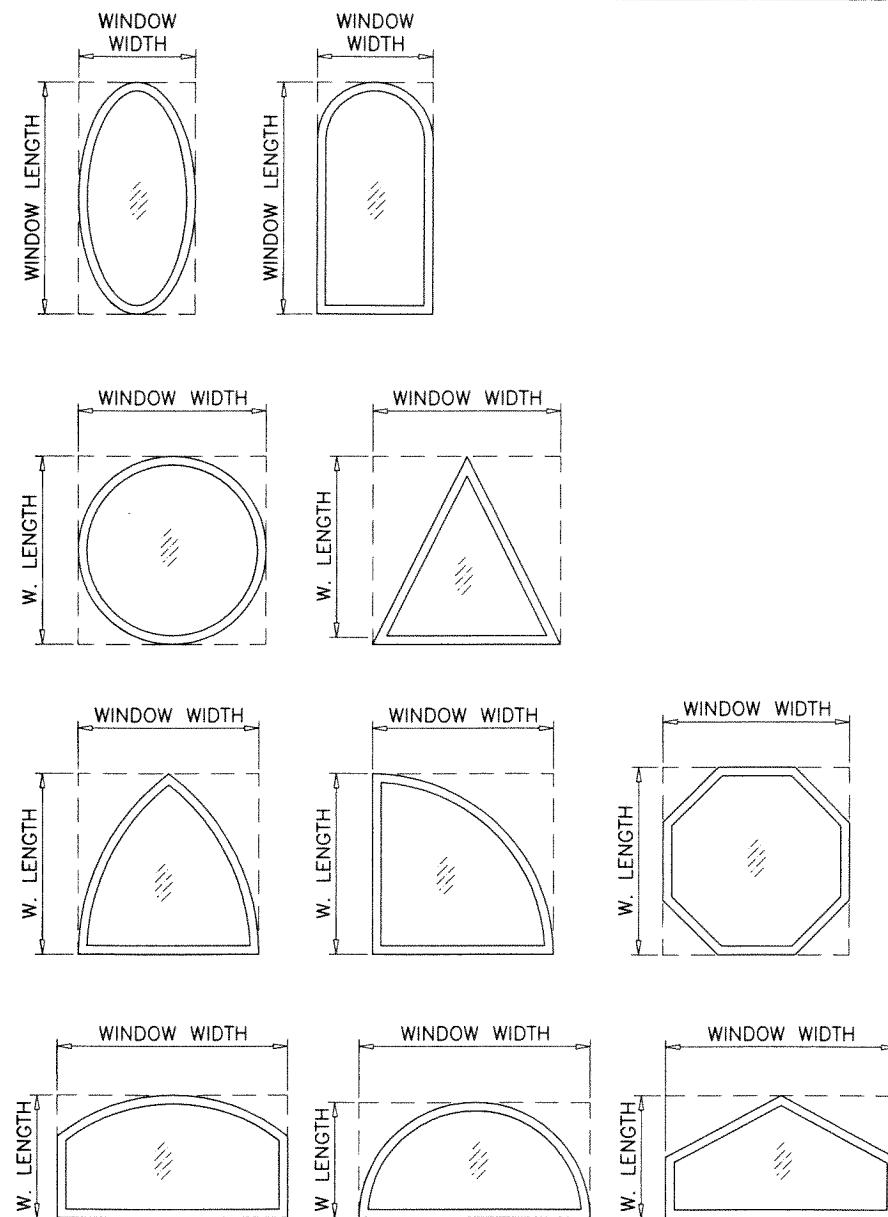
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		1-3/16" OVERALL INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
30"	90"	110.0	135.0
36"		110.0	135.0
42"		110.0	123.0
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		100.0	100.0
72"		91.7	91.7
78"		84.6	84.6
84"		67.9	67.9
30"	96"	110.0	135.0
36"		110.0	135.0
42"		110.0	120.7
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		100.0	100.0
72"		91.7	91.7
78"		73.1	73.1
84"		67.9	67.9
30"	102"	110.0	135.0
36"		110.0	133.6
42"		110.0	118.7
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		100.0	100.0
72"		79.2	79.2
78"		73.1	73.1
84"		67.9	67.9
30"	108"	110.0	135.0
36"		110.0	132.0
42"		110.0	117.0
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		100.0	100.0
72"		79.2	79.2
78"		73.1	73.1
30"	114"	110.0	135.0
36"		110.0	130.6
42"		110.0	110.0
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		86.4	86.4
72"		79.2	79.2

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		1-3/16" OVERALL INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
30"	120"	110.0	135.0
36"		110.0	129.4
42"		110.0	110.0
48"		110.0	110.0
54"		110.0	110.0
60"		110.0	110.0
66"		86.4	86.4
72"		79.2	79.2
30"	126"	95.0	95.0
36"		95.0	95.0
42"		95.0	95.0
48"		95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
66"		86.4	86.4
30"	132"	95.0	95.0
36"		95.0	95.0
42"		95.0	95.0
48"		95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
30"	138"	95.0	95.0
36"		95.0	95.0
42"		95.0	95.0
48"		95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
30"	144"	95.0	95.0
36"		95.0	95.0
42"		95.0	95.0
48"		95.0	95.0
54"		95.0	95.0
60"		95.0	95.0



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

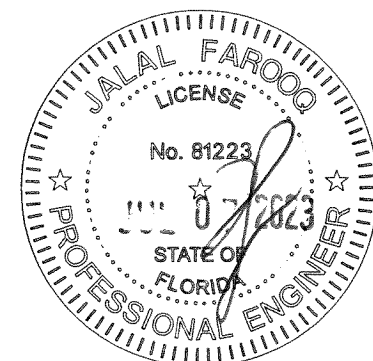
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



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

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-0717.21**  
Expiration Date: **01/16/2025**  
By: *Manuel Perez*  
Miami-Dade Product Control



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

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

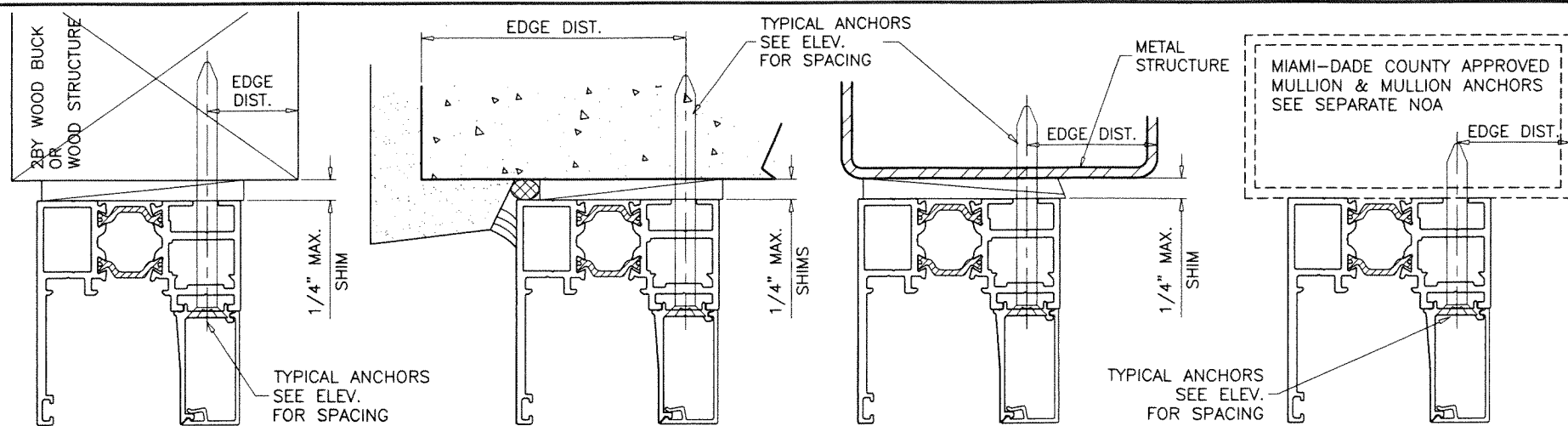
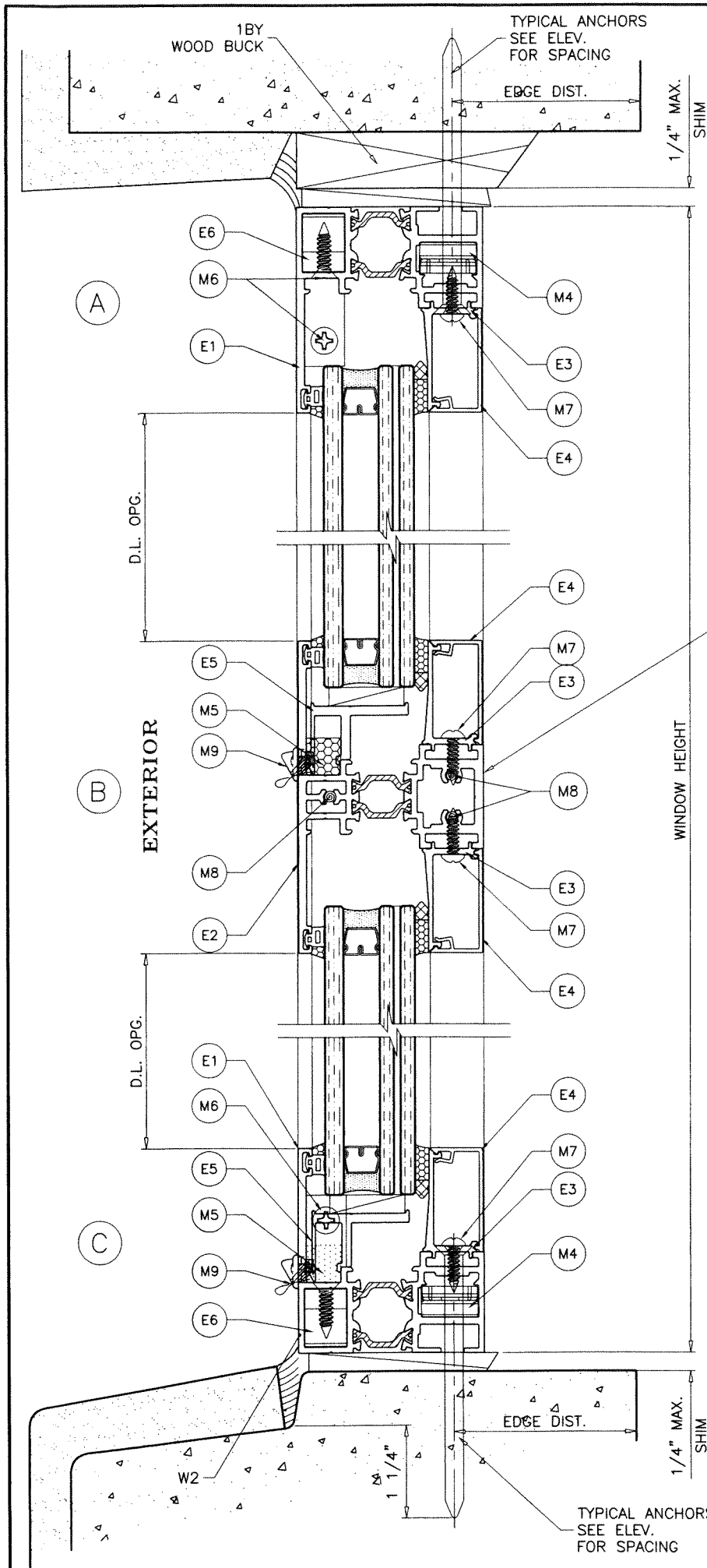
revisions:

no	date	description
A	06.01.18	NO CHANGE THIS SHEET
B	11.09.20	UPDATED TO 2020 FBC
C	06.29.23	NO CHANGE THIS SHEET

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

drawing no.  
**18-05D**

sheet 2 of 6



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

LIMIT MAX. DESIGN LOADS FOR WINDOWS WITH IMPOST AS FOLLOWS

WINDOW WIDTH MAX.	LOAD CAPACITY - PSF
54"	90.0
60"	83.6

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

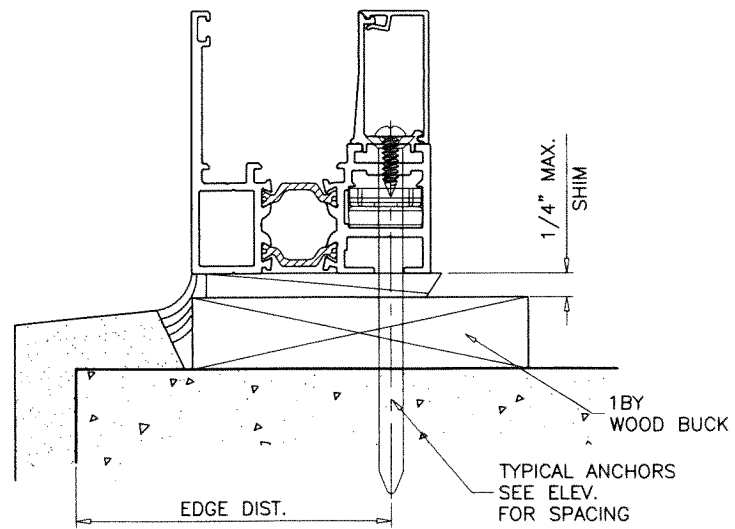
**1/4" DIA. ULTRACON+ BY 'DEWALT'** ( $F_u=164$  KSI,  $F_y=148$  KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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)

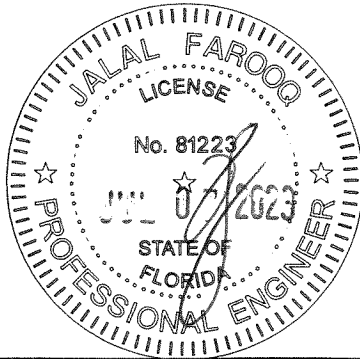
**#14 SMS OR SELF-DRILLING SCREWS** (GRADE 2 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. ( $F_y = 36$  KSI MIN.)  
 (STEEL IN CONTACT WITH 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



**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

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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

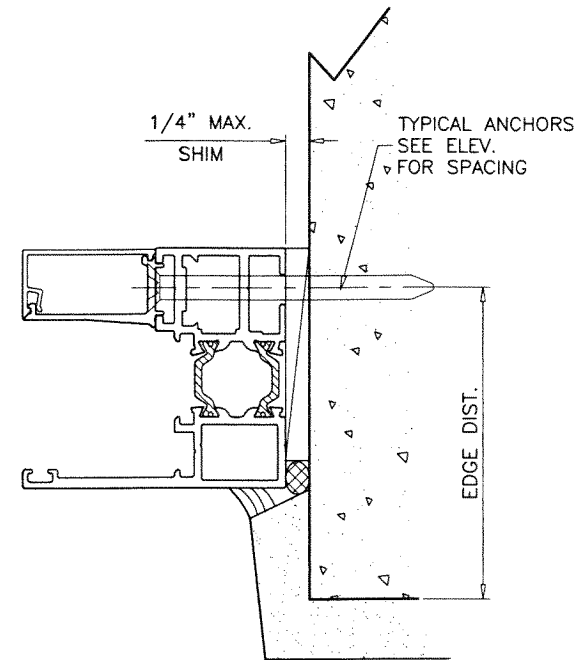
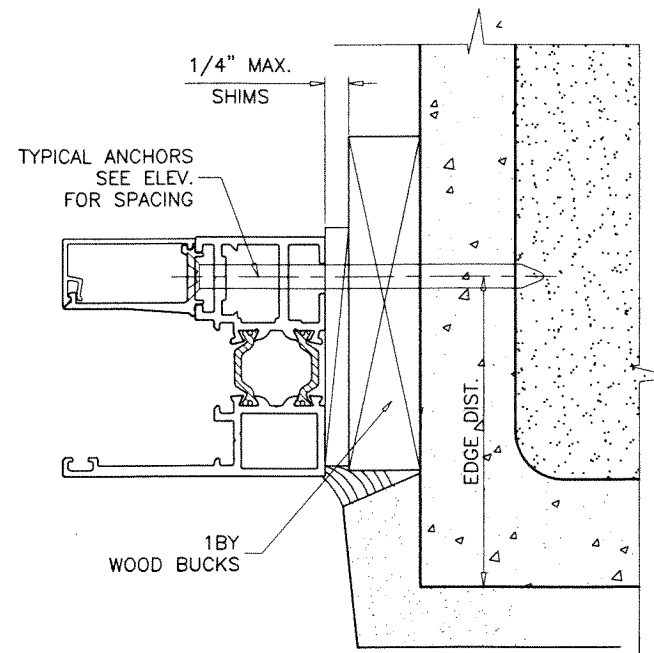
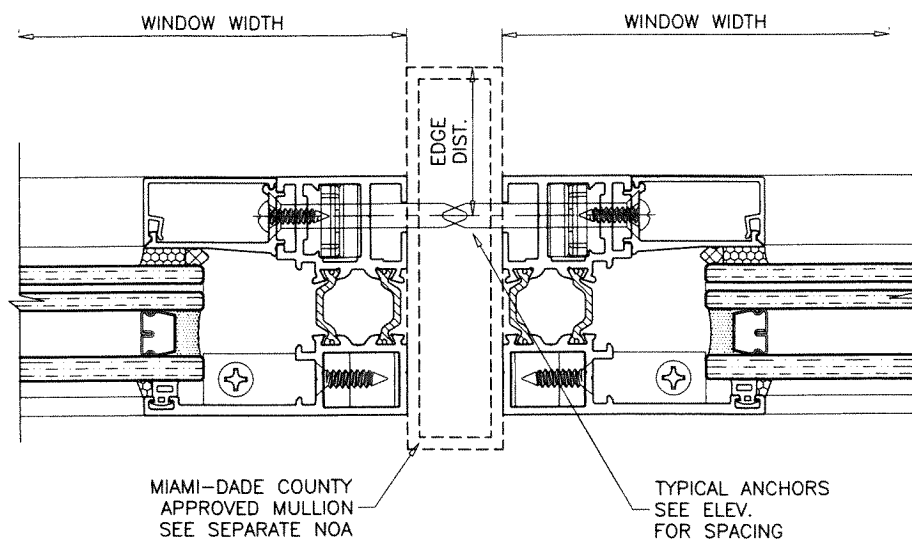
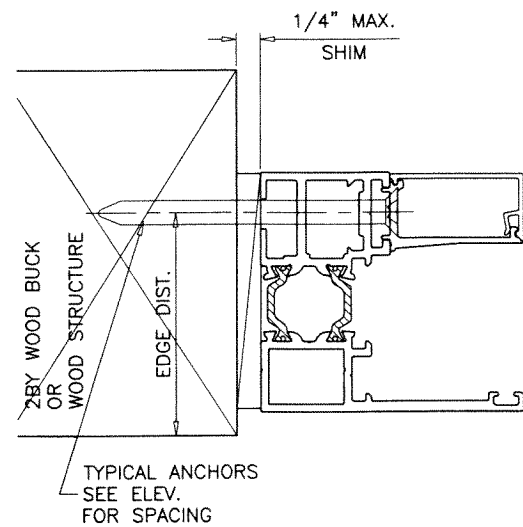
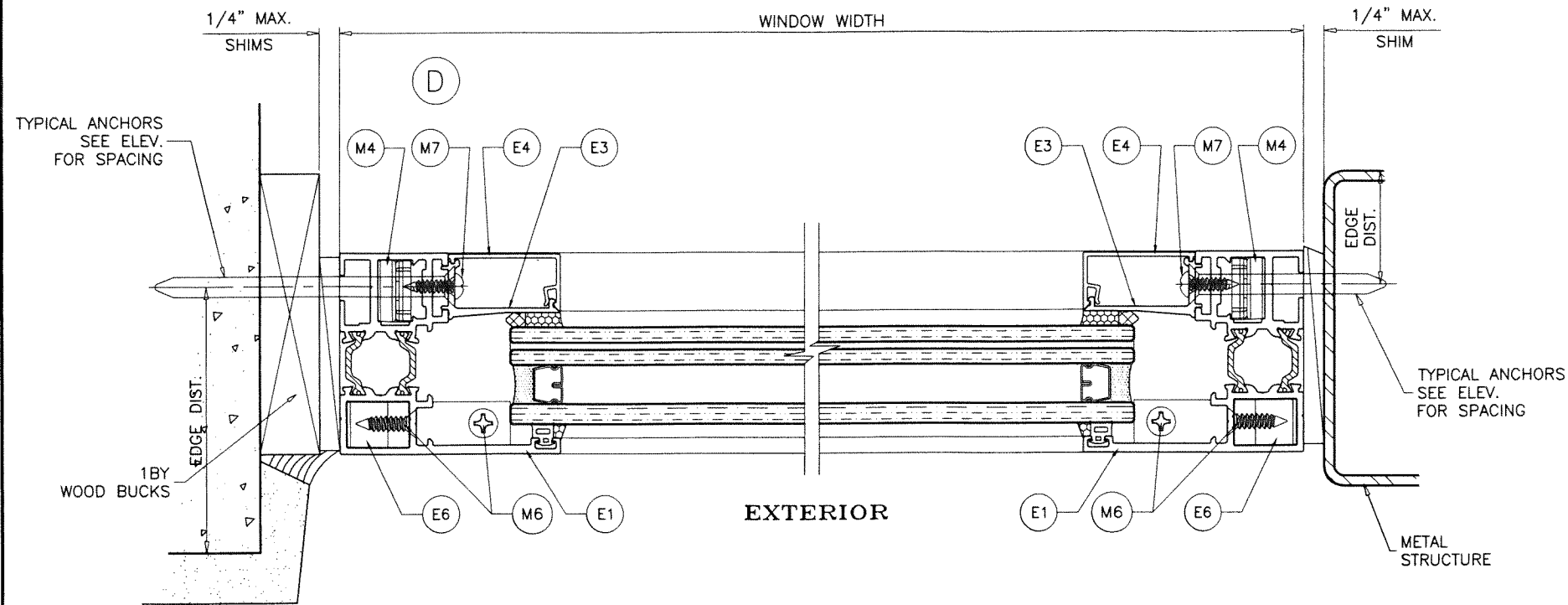
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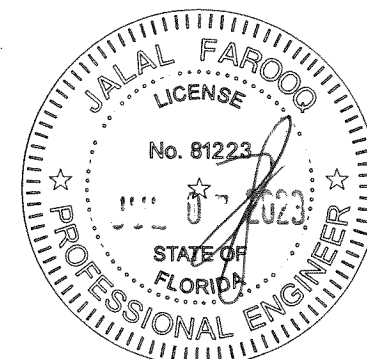
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 chk. by:

drawing no.  
**18-05D**  
 sheet 3 of 6





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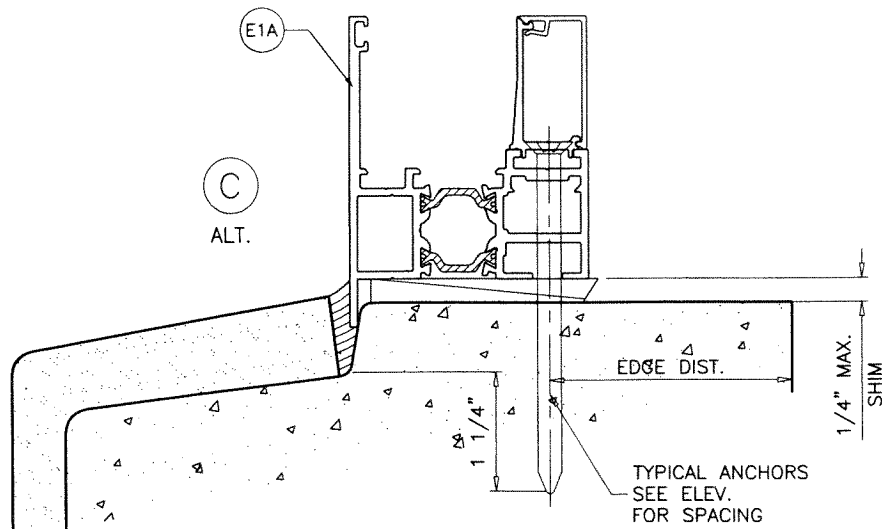
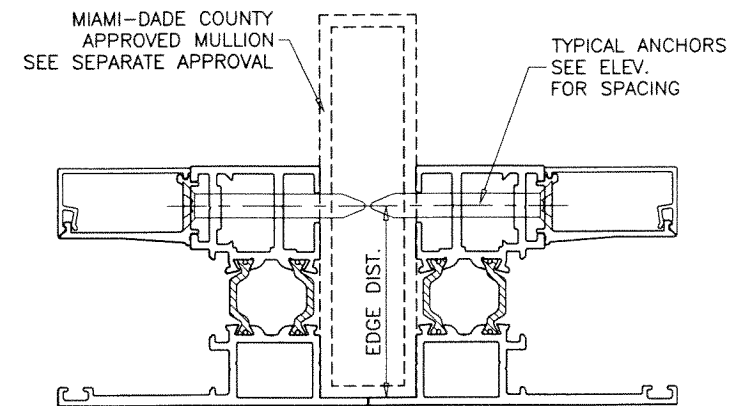
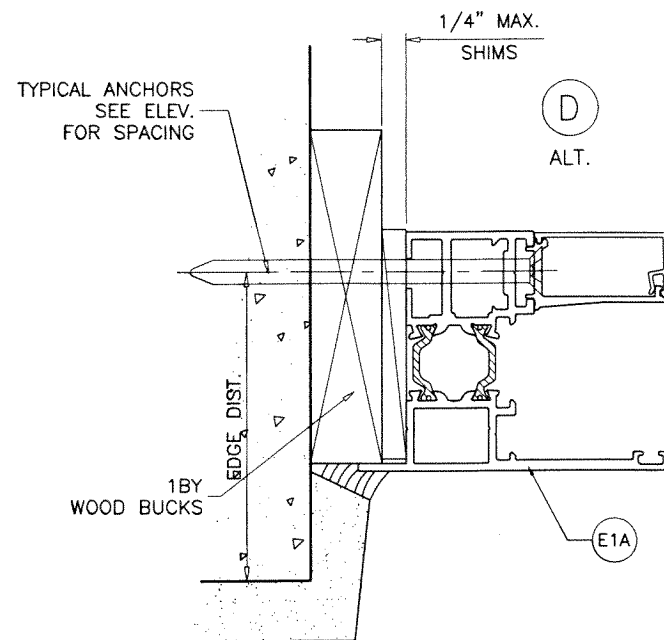
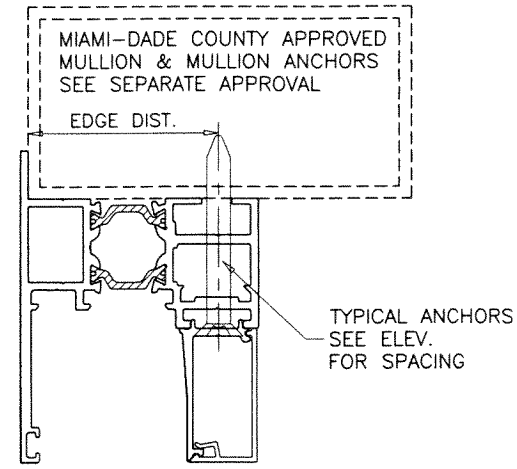
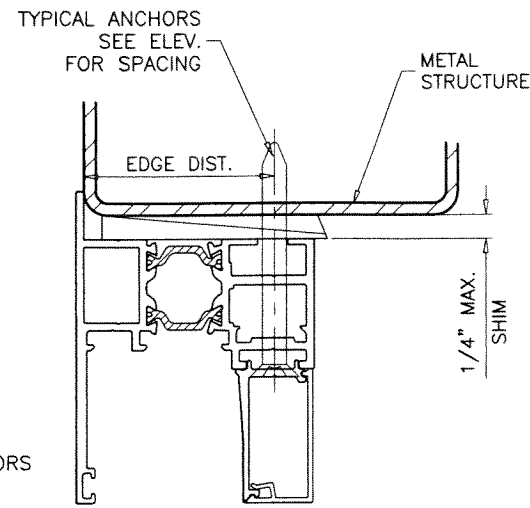
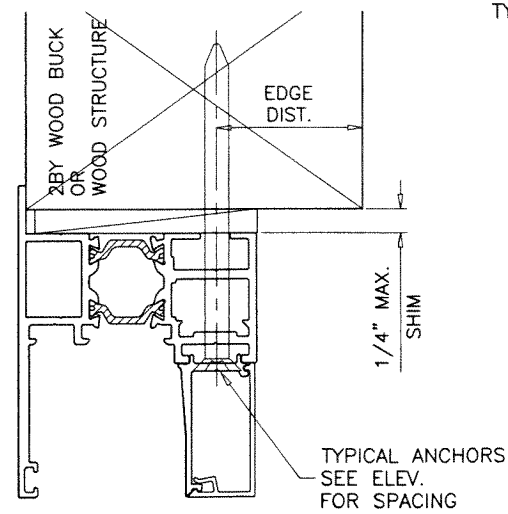
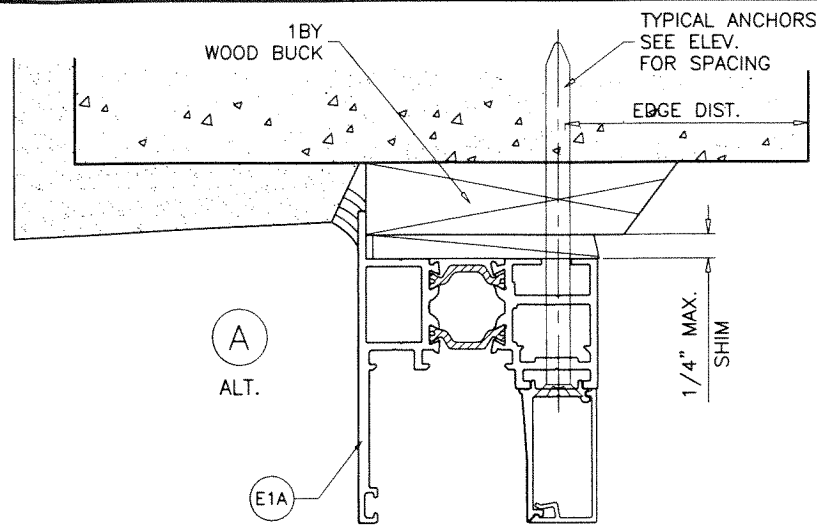
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revisions:	no	date	by	description
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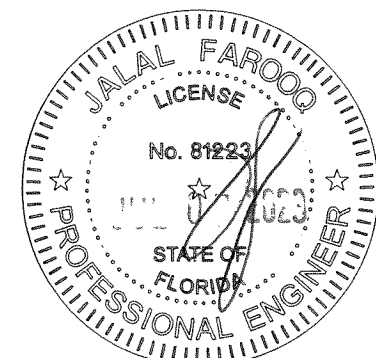
drawing no.  
**18-05D**  
 sheet 4 of 6





**INSTALLATION DETAILS WITH FLANGE FRAMES**  
 FLANGE FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN ON SHEETS 3 THRU 5  
 SEE SHEETS 3 & 4 FOR WINDOW DETAILS

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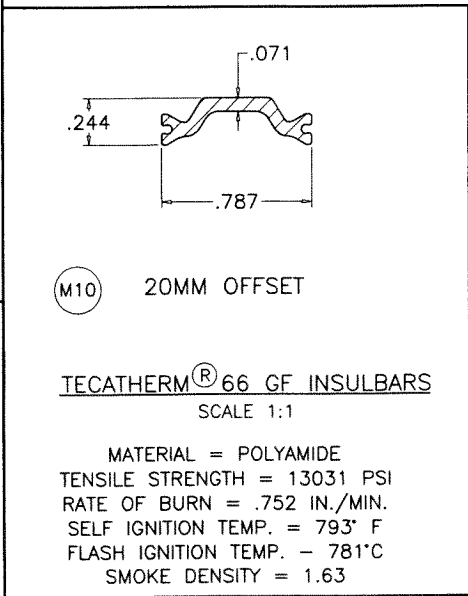
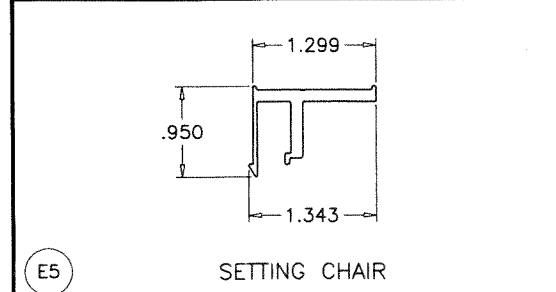
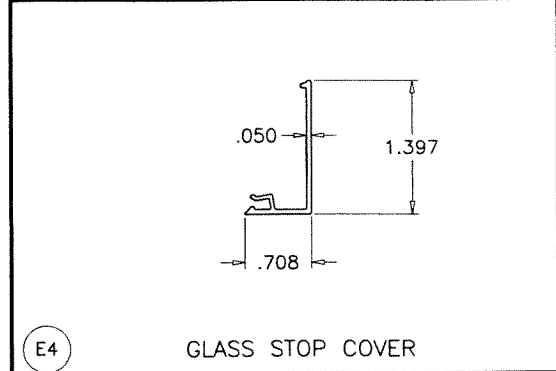
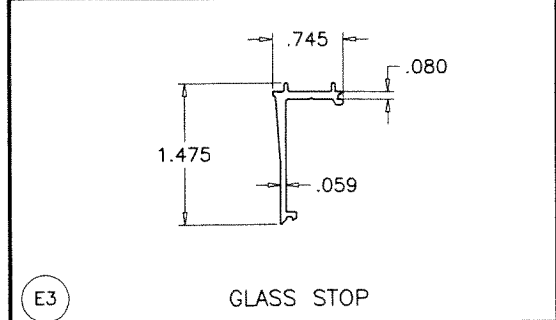
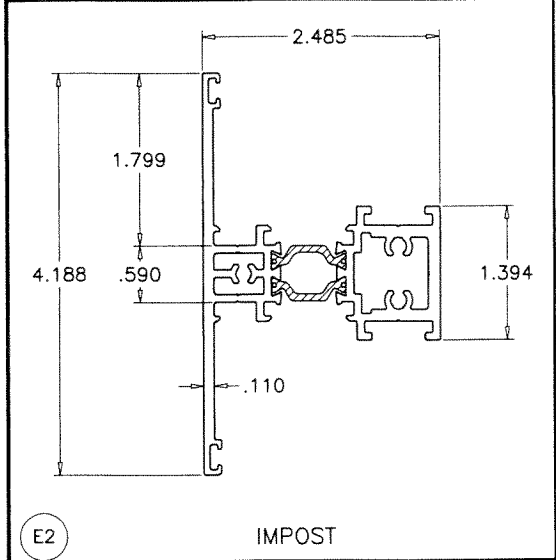
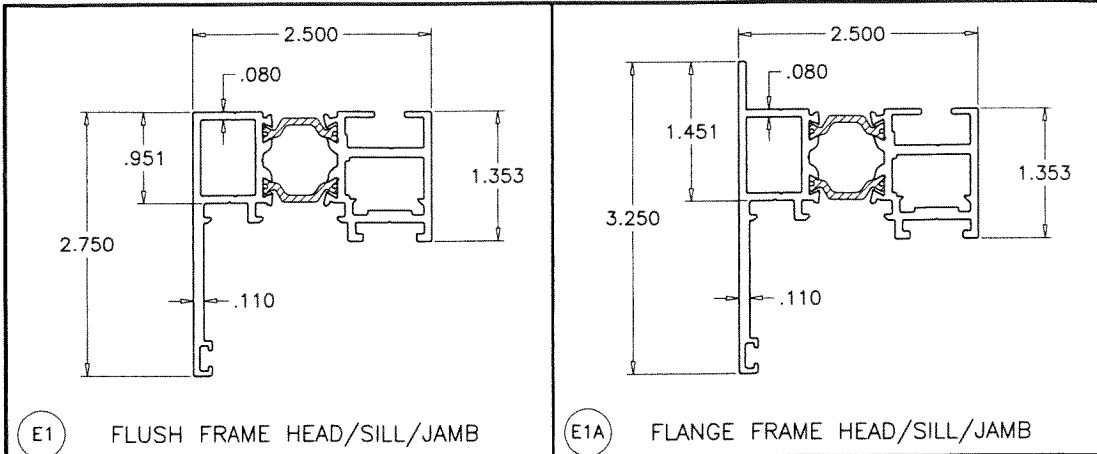


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dr. by:	TARIQ			
chk. by:				
drawing no.	18-05D			
sheet	5 of 6			

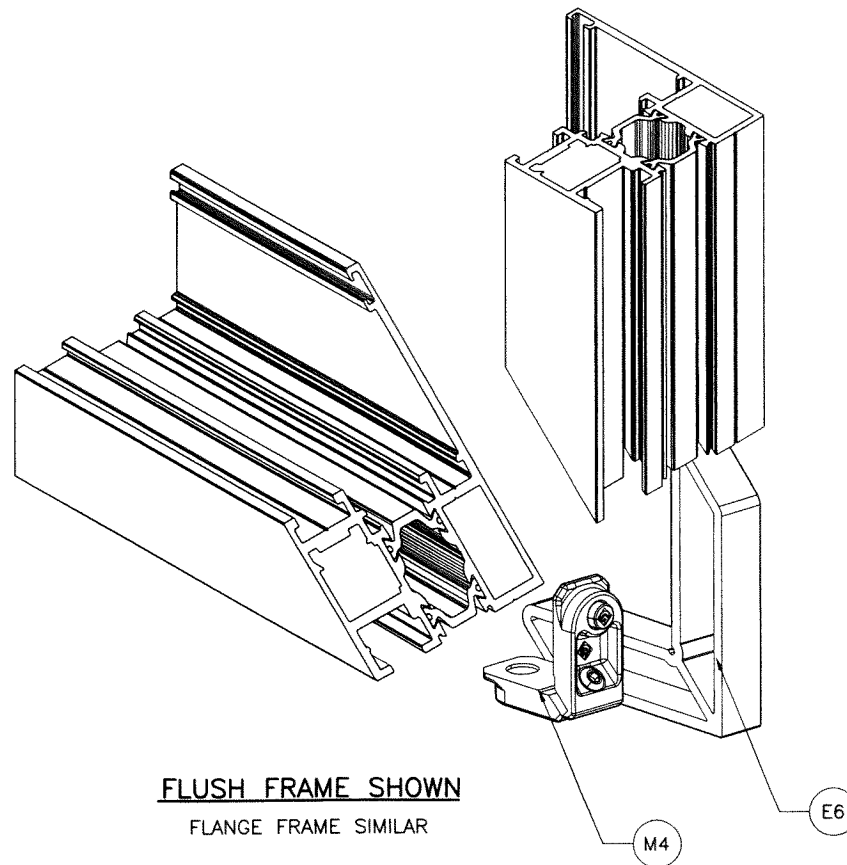
COMP-ANL\18-05D-ES



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-P251-502	AS REQD.	IMPOST	6063-T6	-
E3	ES-P252-005	4	GLASS STOP	6063-T5	-
E4	ES-P252-006	1	GLASS STOP COVER	6063-T5	-
E5	ES-P251-007	2/ LITE	SETTING CHAIR, 4" LONG	6063-T5	-
E6	ES-P251-018	AS REQD.	CORNER KEY	6005-T5	-
M1	ES-P251-G02	AS REQD.	GLAZING GASKET (EXTERIOR)	EPDM	TREMCO TR-19619SW, DUROMETER 70±5 SHORE A
M2	ES-SD451-G04	AS REQD.	GLAZING GASKET (INTERIOR)	EPDM	TREMCO TR-3234E, DUROMETER 70±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

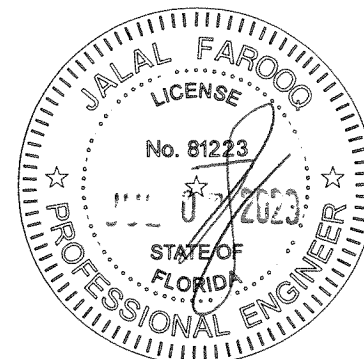
#### SEALANT:

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



FLUSH FRAME SHOWN  
FLANGE FRAME SIMILAR

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sheet 6 of 6