

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

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

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" Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W15-27**, titled "ES-P252 Thermal Alum Casement Wdw. (L.M.I)", sheets 1 through 8 of 8, dated 06/26/15, with revision **D** dated 07/31/20, 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**, 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 and renews NOA No. 19-0528.06 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.

MIAMI-DADE COUNTY
APPROVED

2/4/21

NOA No. 20-1118.04 Expiration Date: August 25, 2026 Approval Date: February 11, 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. 15-0305.03)
- 2. Drawing No. W15-27, titled "ES-P252 Thermal Alum Casement Wdw. (L.M.I)", sheets 1 through 8 of 8, dated 06/26/15, with revision C dated 05/09/19, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. (Submitted under NOA No. 19-0528.06)

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) Small Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, per ASTM F 588-04/07 and per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum casement window samples A-1, A-2, A-3, B-1, B-2 and B-3, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7798**, dated 10/09/15, signed and sealed by Idalmis Ortega, P.E.

(Submitted under NOA No. 15-0305.03)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 5th **Edition** (2014), dated 04/20/16, revised on 07/20/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. (Submitted under NOA No. 15-0305.03)
- 2. Glazing complies with ASTM E1300-09

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.

Manuel Perez, P.E. Product Control Examiner NOA No. 20-1118.04

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- E. MATERIAL CERTIFICATIONS (CONTINUED)
 - 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** (Ft_u=17 ksi and Ft_v=12ksi) by **He**lmut **Lingema**nn GmbH & Co., KG. (Helima).
 - 3. Ensinger, GmbH Part No. **Tecatherm 66 GF <u>Insulbar</u>** 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.
 - 4. Test Report No. ATI-60520.02-106-18, prepared by Architectural Testing, Inc., dated 11/09/06, with revision date 11/29/06, issued to Ensinger, Inc., for their Tecatherm® 66GF Insulbar material comprised of Polyamide 66 with 25% glass fibers, per ASTM G 155-00ae1, "Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of /Non-Metallic Materials", per ASTM D638-03 "Standard Test Methods for Tensile Properties of Plastics", for exposed & unexposed sample per Xenon Arc after 4500 Hours, ASTM D635-98 "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position", ASTM D1929-96 (2000)e01 "Standard Test Method for Determining Ignition Properties of Plastics" and ASTM D2843-99 "Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics" and ASTM D2843-99 "Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics", signed and sealed by Joseph A. Reed, P.E.
 - 5. Standard Material Values Data Sheet from **Ensinger for** "*Tecatherm 66 GF* Polyamide 66 with 25% glass fibers, black—Mechanical Properties and Thermal Properties.

F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC** 6th **Edition (2017)**, dated May 15, 2019, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. (Submitted under NOA No. 19-0528.06)
- 2. Distributor Agreement between ES Windows-Energia Solar, S.A., Barranquilla, Columbia, S.A. and E.S. 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. 15-0305.03)

Manuel Perez, P.E. Product Control Examiner NOA No. 20-1118.04

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

F. STATEMENTS (CONTINUED)

- 3. Laboratory compliance letter for Test Report No. FTL-7798, issued by Fenestration Testing Laboratory, Inc., dated 04/14/16, signed and sealed by Idalmis Ortega, P.E. (Submitted under NOA No. 15-0305.03)
- **4.** Proposal issued by Product Control, dated 10/18/12, signed by Jaime D. Gascon, P.E. (Submitted under NOA No. 15-0305.03)

G. OTHERS

1. Notice of Acceptance No. **18-0221.06**, issued to E.S. Windows, LLC for their Series "ES-P252 Thermal Broken" Outswing Aluminum Casement Window – L.M.I., approved on 05/10/18 and expiring on 08/25/21.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W14-38**, titled "ES-8000T Alum. Window Wall System (L.M.I.)", sheets 1, 1.1, 2, 3, 4, 5, 6, 7, 7.1, 8, 9, 10, 11, 11.1, 12 and 13 of 13, dated 10/01/14, with revision **F** dated 11/12/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

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) Small Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, per ASTM F 588-04/07 and per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of a series ES-P252 aluminum casement window samples A-1, B-1, C-1, D-1, E-1, F-1, G-1, H-1, I-1, J-1, K-1, K-2, K-3 and L-1, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-12064**, dated 07/16/20, signed and sealed by Idalmis Ortega, P.E.

Manuel Perez, P.E. Product Control Examiner NOA No. 20-1118.04

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 5th **Edition (2014)**, dated 04/20/16, revised on 07/20/16, and further updated on 11/16/20 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 E1300-09

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® XtraTM (SGXTM) Clear Glass Interlayer" dated 05/23/19, expiring on 05/23/24.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC 6th Edition (2017), with FBC 7th Edition (2020), and of no financial interest, dated August 7, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

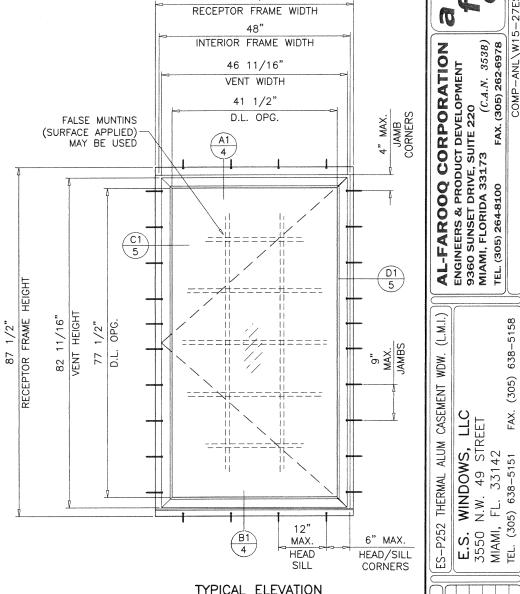
G. OTHERS

1. Notice of Acceptance No. **19-0528.06**, issued to E.S. Windows, LLC for their Series "ES-P252 Thermal Broken" Outswing Aluminum Casement Window – L.M.I., approved on 06/27/19 and expiring on 08/25/21.

Manuel Perez, P.E. Product Control Examiner NOA No. 20-1118.04

INTERIOR FRAME WIDTH 46 11/16" VENT WIDTH 41 1/2" D.L. OPG. FALSE MUNTINS (SURFACE APPLIED) $\frac{A}{2}$ MAY BE USED 82 11/16" VENT HEIGHT 1/2" OPG. 77 D.L. MAX. 6" MAX 2 HEAD HEAD/SILL SILL CORNERS

TYPICAL ELEVATION ANCHORS THRU WDW. FRAMES



49 13/16"

TYPICAL ELEVATION ANCHORS THRU RECEPTOR FRAMES

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR CASEMENT WITH OTHER

THERMAL ALUMINUM CASEMENT WINDOW

ES-P252 (L.M.I.)

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 2017 (6TH EDITION)/2020 (7TH 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 2017/2020 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.

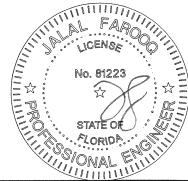
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-1118.04

Expiration Date: <u>08/25/2026</u>

Miami-Dade Product Control NOV 1 7 2020



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by description

CHANGE THIS

UPDATED TO 201

ALT. VENT ADDED

GENERAL REVISIO

(C.A.N. 3538) FAX. (305) 262-6978

AL-FAROOQ (
ENGINEERS & PROD
9360 SUNSET DRIVE
MIAMI, FLORIDA 333
TEL. (305) 264-8100

CORPORATION

WDW.

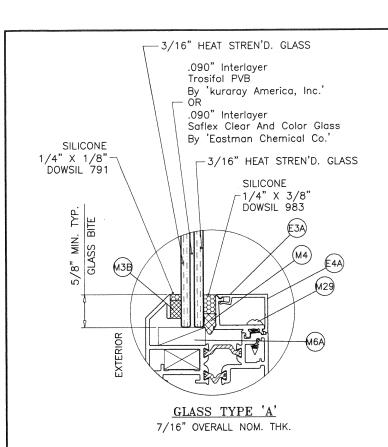
ES-P252 THERMAL ALUM CASEMENT

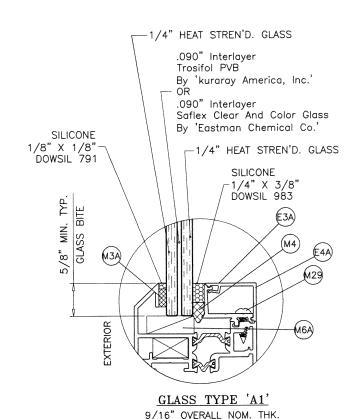
WINDOWS, LLC N.W. 49 STREET FL. 33142 305) 638–5151 FAX. (

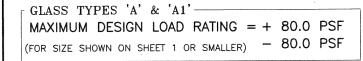
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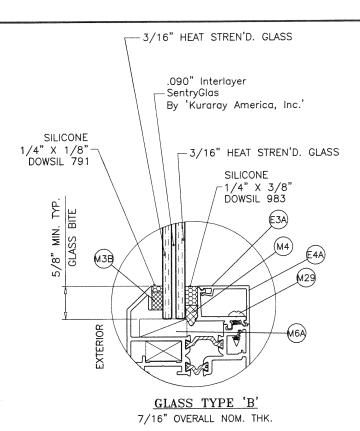
drawing no. W15 - 27

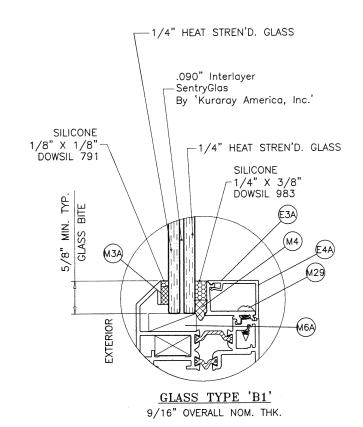
sheet 1 of 8



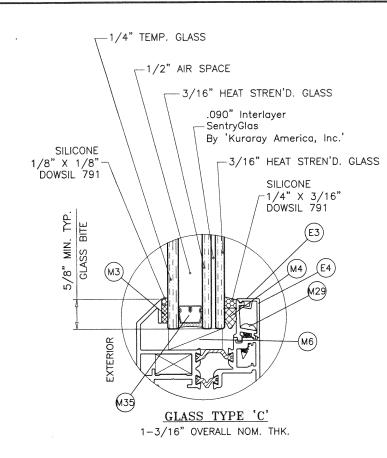








GLASS TYPES 'B' & 'B1'-MAXIMUM DESIGN LOAD RATING = + 85.0 PSF (FOR SIZE SHOWN ON SHEET 1 OR SMALLER) - 105.0 PSF



GLASS TYPE 'C'-MAXIMUM DESIGN LOAD RATING = + 95.0 PSF (FOR SIZE SHOWN ON SHEET 1 OR SMALLER)

> 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

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

PRODUCT REVISED as complying with the Florida Building Code 20-1118.04 NOA-No. **Expiration Date: 08/25/2026**

By: Manuel Peres Miami-Dade Product Control

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drawing no.

W15 - 27

sheet 1.1 of 8

(C.A.N. 3538) FAX. (305) 262-6978 COMP—ANL\W15

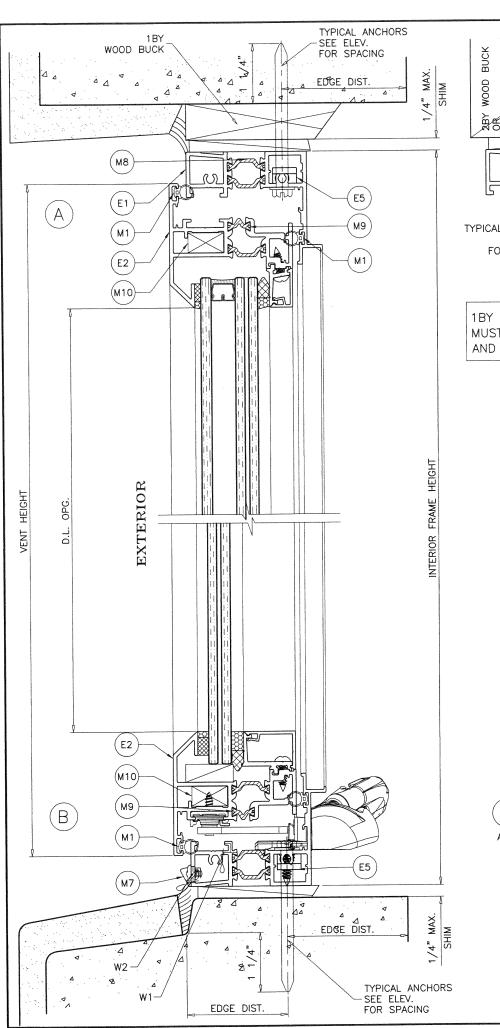
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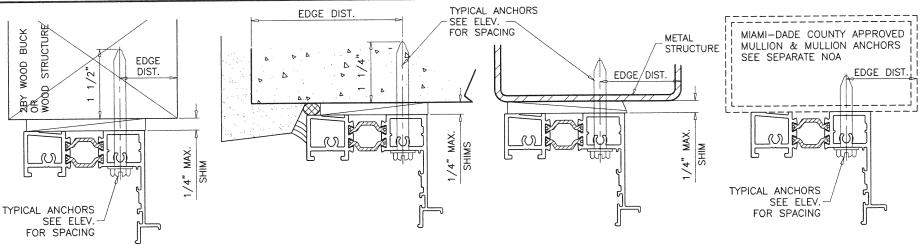
AL-FAROOQ CORPORATIONENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

(L.M.I.)

WDW.

S-P252 THERMAL ALUM CASEMENT



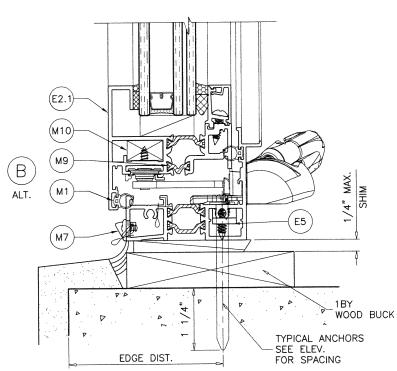


1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WDW. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

WEEPHOLES:

W1 = $2" \times 5/16"$ WEEPHOLES AT 3-1/4" FROM EACH END AND AT MIDSPAN

W2 = 1-1/2" X 1/4" WEEPHOLES AT 6" FROM EACH END WITH NYLON BAFFLE



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. CRETE-FLEX SS4 BY 'DEWALT' (Fu=190 KSI, Fy=127 KSI)

1/4" DIA. ULTRACON SS4 410 BY 'DEWALT' (Fu=190 KSI, Fy=164 KSI)

1/4" DIA. AGGRE-GATOR 300 BY 'DEWALT' (Fu=96 KSI, Fy=57 KSI)

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=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

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

1/4" DIA. BI-FLEX 300 SELF DRILLING SCREWS BY 'DEWALT'

1/4" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT' (GRADE 5 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. (Fy = 36 KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

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 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

NOV 1 7 2029

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1118.04

Expiration Date: 08/25/2026

By: Manuel Peres

Miami-Dade Product Control



2 CORPORATION CODUCT DEVELOPMENT INVE, SUITE 220

AL-FAROOQ (
ENGINEERS & PROD
9360 SUNSET DRIVE
MIAMI, FLORIDA 333

(L.M.I.)

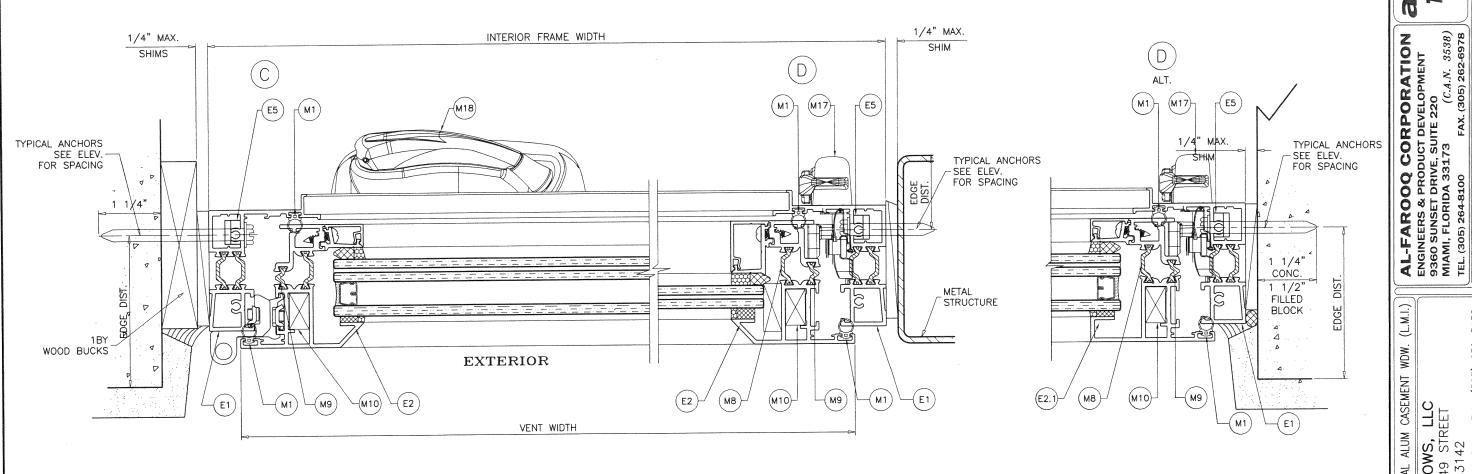
ES-P252 THERMAL ALUM CASEMENT

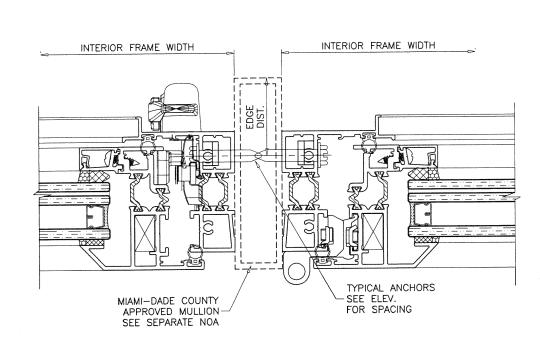
WINDOWS, LLC N.W. 49 STREET FL. 33142 305) 638–5151 FAX. (

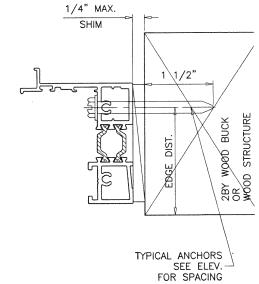
E.S. 3550 MIAMI, TEL. (30)

drawing no. W15-27

sheet 2 of 8



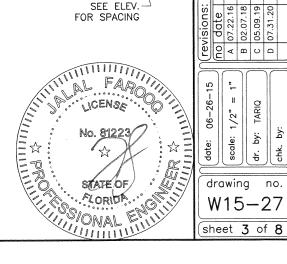




PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1118.04
Expiration Date: 08/25/2026

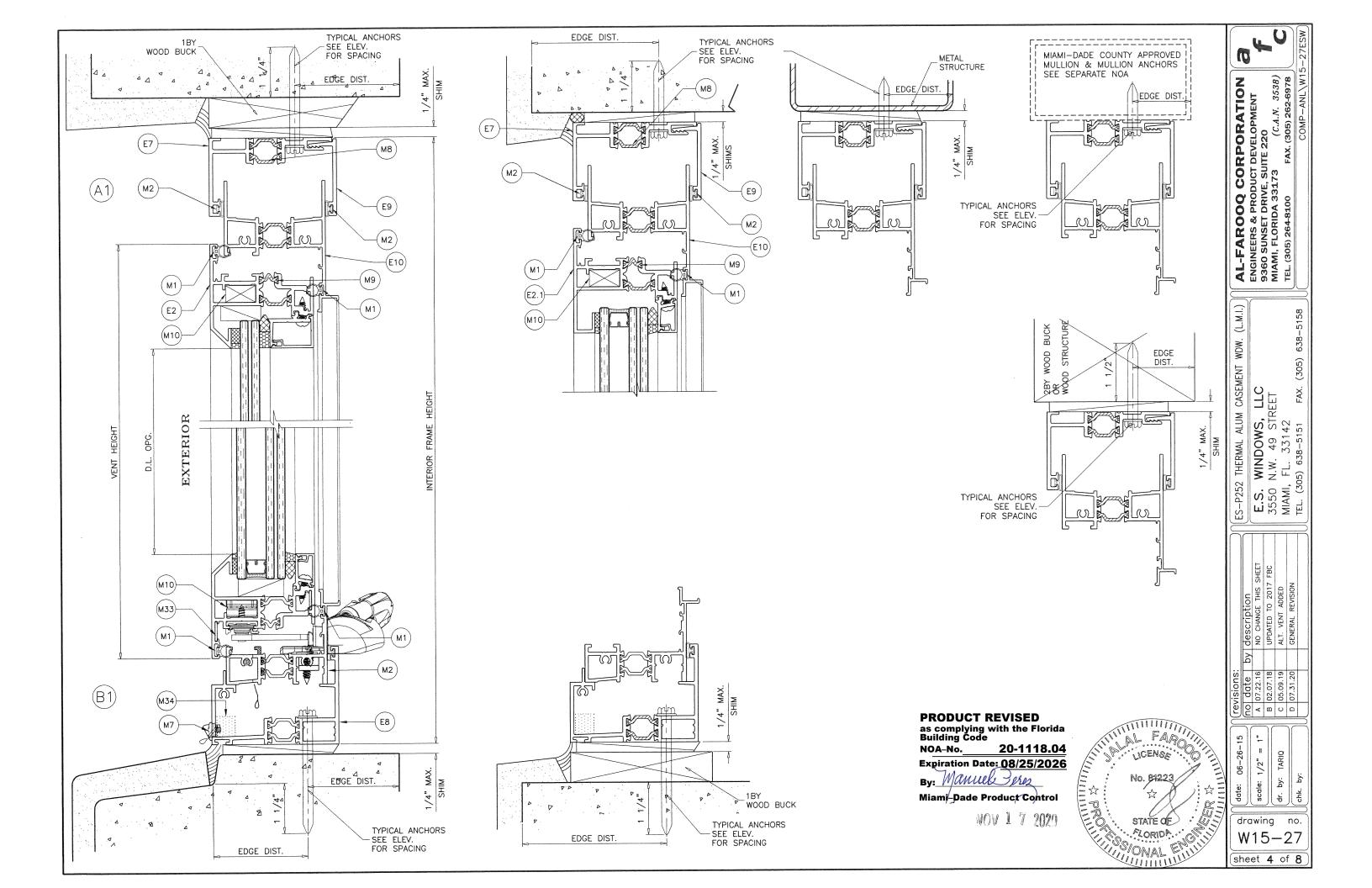
By: Manuel Product Control

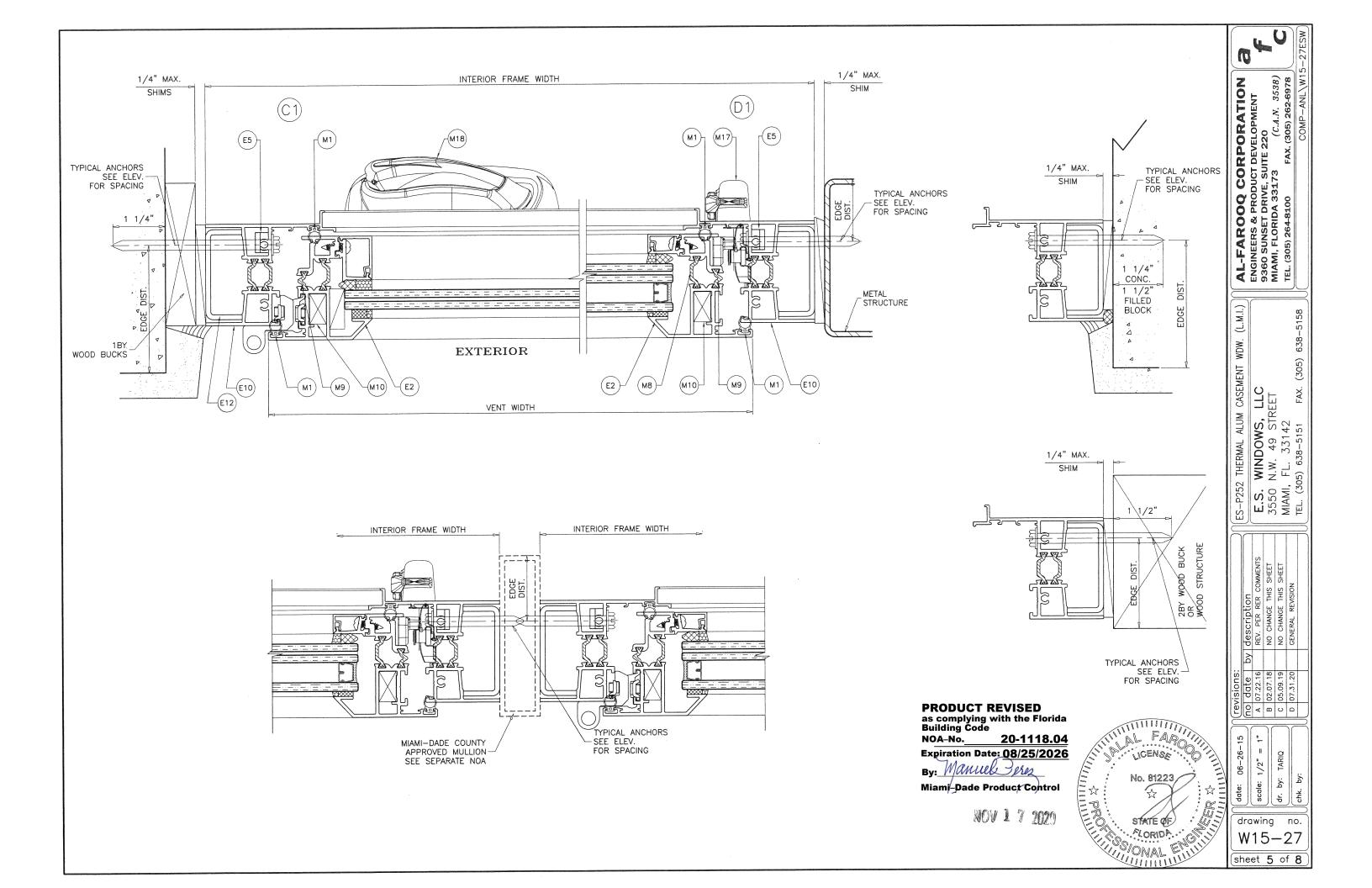
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		MIAMI, FL. 33142			
	\equiv	TEL. (305) 638-5151	FAX.	FAX. (305) 6	9

description
REV. PER RER O
NO CHANGE THIS
ALT. VENT ADDEC





ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-P250-001/P252-001	4	FLUSH FRAME HEAD/SILL/JAMB	6063-T6	
E2	ES-P252-002/P250-003	4	VENT	6063-T6	_
E2.1	ES-P252-026/P250-003	4	ALT. VENT	6063-T6	_
E3	ES-P252-004	4/ VENT	GLASS STOP (INSUL. LAM. GLASS)	6063-T6	_
E3A	ES-P252-029	4/ VENT	GLASS STOP (LAM. GLASS)	6063-T6	_
E4	ES-P252-003		COVER IMPACT (INSUL. LAM. GLASS)	6063-T6	_
E4A	ES-P252-030	-	COVER IMPACT (LAM. GLASS)	6063-T6	_
E5	AAC-A-027	1/ CORNER	FRAME ATTACHMENT ANGLE	6063-T6	_
E7	ES-P250-010/P251-013	AS REQD.	RECEPTOR HEAD	6063-T6	_
E8	ES-P251-016/032	1	RECEPTOR SILL	6063-T6	_
E9	ES-P251-014	1	RECEPTOR STOP	6063-T6	_
E10	ES-P250-017/P252-012	_	EQUAL LEG FRAME HEAD/JAMB	6063-T6	_
E12		AS REQD.	JAMB REINF. CHANNEL	6063-T6	_
М1	ES-P251-G05	AS REQD.	INTERIOR VENT GASKET	EPDM	TREMCO #TX-20003E, DUROMETER 70±5 SHORE A
M2	27-245	AS REQD.	FRAME RECEPTOR	EPDM	CANALVIDRIOS, DUROMETER 65±5 SHORE A
М3		-	GLAZING TAPE (1/8" X 3/8")	POLYURETHANE	_
мза	-	AS REQD.	GLAZING TAPE (3/16" X 3/8")	POLYURETHANE	-
мзв		AS REQD.	GLAZING TAPE (1/4" X 3/8")	POLYURETHANE	-
M4	ES-H340-G02	_	GLAZING WEDGE	EPDM	DUROMETER 60±5 SHORE A
М6	ES-6025-B01	_	SETTING BLOCK AT VENT	EPDM	TREMCO TR-1870E, DUROMETER 85±5 SHORE A
M6A	NS-25-B03A	_	SETTING BLOCK AT VENT	EPDM	DUROMETER 85±5 SHORE A
M7	WA2L	_	WEEP HOLE COVER	union .	PREFERRED
M8	2479	AS REQD.	INSULBAR 20MM OFFSET	POLYAMIDE	ENSINGER
M9	2531	AS REQD.	INSULBAR 12MM OFFSET	POLAMIDE	ENSINGER
M10	0337	_	CORNER JOINT	DIECAST ALUM	MASTER
M11	CL02-002X	_	LOCK POINT BAR	ST. STEEL	INTERLOCK
M12	CL02-2059-00B	_	STRIKER	_	INTERLOCK
M13	CL02-2060-00B	_	LOCKING BAR GUIDE	_	INTERLOCK
M14	C011-0151-085	_	13,5" SA OPERATOR LOW PROFILE RH	ST. STEEL	INTERLOCK
M15	C011-0152	_	13,5" SA OPERATOR LOW PROFILE LH	ST. STEEL	INTERLOCK
M16	C011-0704	_	TRACK	ST. STEEL	INTERLOCK
M17	CL01-0475	_	MULTIPOINT HANDLE	DIE CAST ZINC	INTERLOCK
M18	C011-0605-XXX	_	COVER OPERATOR HANDLE LEFT	_	INTERLOCK
M19	C011-0606-XXX	_	COVER OPERATOR HANDLE RIGHT	_	INTERLOCK
M20	CL01-2250-XXX	MARKS.	SNAP ON COVER	DIE CAST ZINC	INTERLOCK
M21	CL01-1050-XXX		SNAP ON HANDLE	COPOLYMER	INTERLOCK
M22	C001-4001	_	CLAMP WASHER	ST. STEEL	INTERLOCK
M23	A1199X0003	-	EURO HINGE	ST. STEEL	AMC
M24	#10 X 2" FH	_	FRAME CORNER FASTENER	ST. STEEL	-
M26	#10 X 3/4" PH	_	FRAME CORNER ANGLE FASTENER	ST. STEEL	_
M27	#8 X 1" FH	_	STRIKER FASTENER	ST. STEEL	-
M28 ·	. #8 X 1/2" FH	-	GUIDE, OPERATOR, TRACK FASTENER	ST. STEEL	
M29	#8 X 5/8" PH SMS	_	GLASS STOP FASTENER	ST. STEEL	AT 4" FROM ENDS & 8-1/4" O.C.
M30	#8-32 X 1/2" PH	_	LOCKING HANDLE CLAMP WASHER FASTENER	ST. STEEL	
M31	#8 X 1/2" PH	_	END DAM FASTENER	ST. STEEL	
M32	C001-4000	_	CLAMP WASHER .	ROH	INTERLOCK
M33	PJS43-SS	_	CORNER LOCK	ST. STEEL	-
1		_	3/4" X 3/4" X 2" RETICALATED FOAM	OPEN CELL FOAM	30 PP1
M34	WPSA-N1	1	1 = / /		

SEALANTS:

FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH WHITE/ALUMINUM COLORED GENERAL PURPOSE SILICONE SEALANT BY MACKLANBURG-DUNCAN.

LOCKS:

SEVEN POINT LOCK SYSTEM BY 'INTERLOCK' LOCATED AT FRAME JAMB AT 10" FROM BOTTOM FASTENED WITH (2) $\#8-32 \times 1/2$ " PH MS

(10) SLIDE BAR NYLON GUIDES, EACH FASTENED TO FRAME JAMB WITH (2) #8 X 1" FH SMS

SURFACE MOUNT NYLON KEEPERS AT VENT FACING LOCKING POINTS EACH FASTENED WITH (2) #10 X 3/4" FH SDS

HINGES:

SURFACE MOUNT METALLIC PIVOT HINGE LOCATED AT FRAME JAMB AT 8" FROM TOP & BOTTOM FASTENED WITH (2) $\#12-28 \times 1/2$ " FH MS (2) 1/4-20 X 1/4" SET SCREW

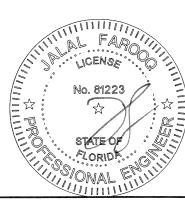
OPERATOR:

ROTO OPERATOR BY 'INTERLOCK' LOCATED AT SILL END FASTENED WITH (6) #8 X 3/4" FH SMS (2) #8-32 X 7/16" FH MS

> **PRODUCT REVISED** as complying with the Florida Building Code 20-1118.04 NOA-No. Expiration Date: 08/25/2026

Miami-Dade Product Control

NOV 1 7 2020



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

(L.M.I.)

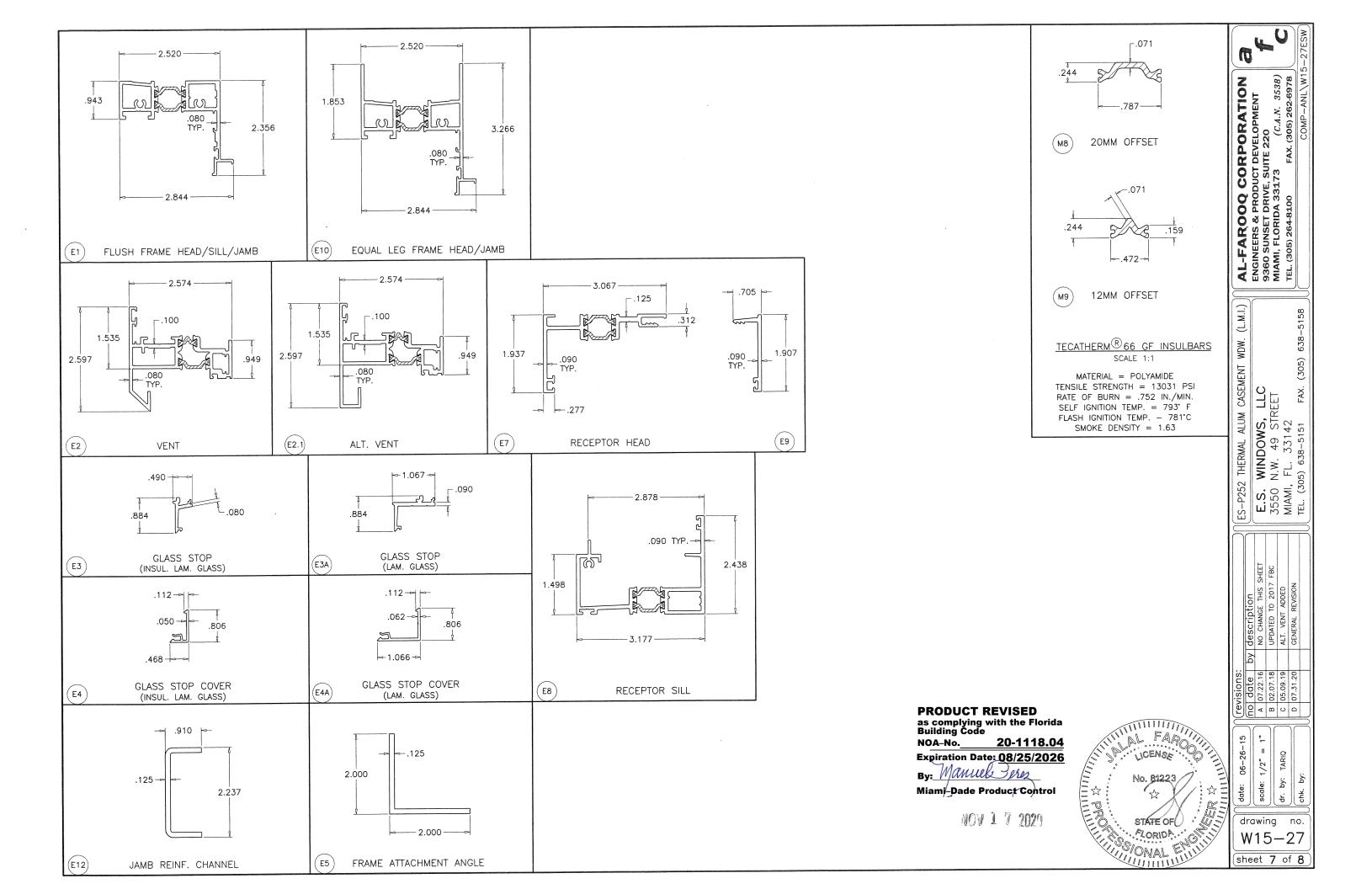
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (

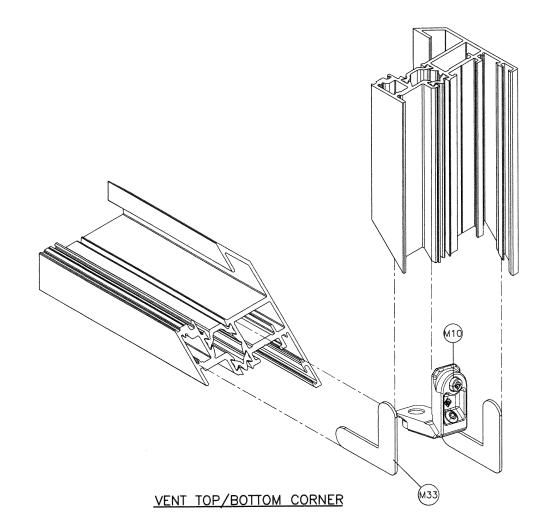
ES-P252 THERMAL ALUM CASEMENT WDW.

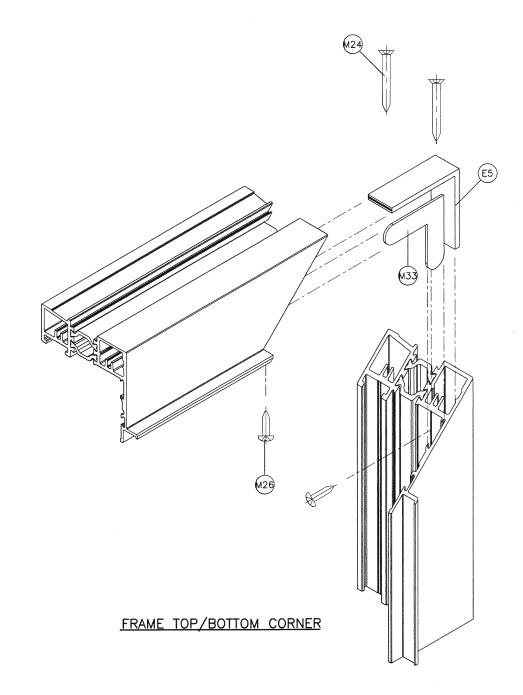
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drawing no. W15 - 27

sheet 6 of 8





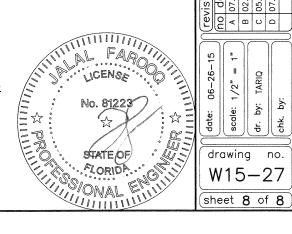


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1118.04

Expiration Date: 08/25/2026

By: Manuel Pres Miami-Dade Product Control

NOV 1 7 2020



ES-P2 B:S56 MIAN MIAN TEL.	ES-P252 THERMAL ALUM CASEMENT WDW. (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	SEMENT C	CASEMENT WDW. (L.M.I.) LC ET FAX. (305) 638-5158		AL-FAROOQ CORPOR ENGINEERS & PRODUCT DEVELOF 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C. TEL. (305) 264-8100 FAX. (305
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GENERAL REVISION		D 07.31.20	۵	
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