

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 "5100 Fixed Casement" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. W11-15, titled "Series 5100 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/22/11, with revision H dated 07/14/23, 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. 20-1116.01 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.



NOA No. 23-0724.08 **Expiration Date: September 22, 2026** Approval Date: September 21, 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. 11-0531.09)*
- Drawing No. W11-15, titled "Series 5100 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/22/11, with revision G dated 11/05/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (Submitted under NOA No. 20-1116.01)

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 an aluminum fixed casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-6294** and **FTL-6295**, dated 02/25/11 and 03/16/11 respectively, both signed and sealed by Marlin D. Brinson, P.E. *(Submitted under NOA No. 11-0531.09)*

C. CALCULATIONS

 Anchor verification calculations and structural analysis, complying with FBC 5th Edition (2014) and FBC 6th Edition (2017), dated 10/28/14 and 10/06/17, and further updated on 07/24/20 to comply with FBC 7th Edition (2020), prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (Submitted under NOA No. 20-1116.01)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. 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.
- 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.

Manuel Perez, P.F

Product Control Examiner NOA No. 23-0724.08 Expiration Date: September 22, 2026 Approval Date: September 21, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

F. STATEMENTS

- Statement letter of conformance, complying with FBC 6th Edition (2017), with FBC 7th 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. 20-1116.01)
- Laboratory compliance letter for Test Reports No. FTL-6294 and FTL-6295, issued by Fenestration Testing Laboratory, Inc., dated 02/25/11 and 03/16/11 respectively, both signed and sealed by Marlin D. Brinson, P.E. (Submitted under NOA No. 11-0531.09)
- **3.** Proposal No. **10-0505** issued by Product Control, dated 06/29/10, signed by Manuel Perez, P.E.

(Submitted under NOA No. 11-0531.09)

Distributor Agreement between, E.S. Windows – Energia Solar S.A., Barranquilla, Colombia and E.S. Windows, LLC, Miami, Florida, U.S.A., dated 10/20/10, signed by Carla Garcia Torrente and by Andres Chamorro, respectively. (Submitted under NOA No. 11-0531.09)

G. OTHERS

1. Notice of Acceptance No. **18-0116.05**, issued to E.S. Windows, LLC for their Series "5100 Fixed Casement" Aluminum Fixed Window – L.M.I., approved on 02/22/18 and expiring on 09/22/21.

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Manuel Pérez, P.E. Product Control Examiner NOA No. 23-0724.08 Expiration Date: September 22, 2026 Approval Date: September 21, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. W11-15, titled "Series 5100 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/22/11, with revision H dated 07/14/23, 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. 20-0915.22 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 11/19/20, expiring on 07/08/24.
- 2. 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

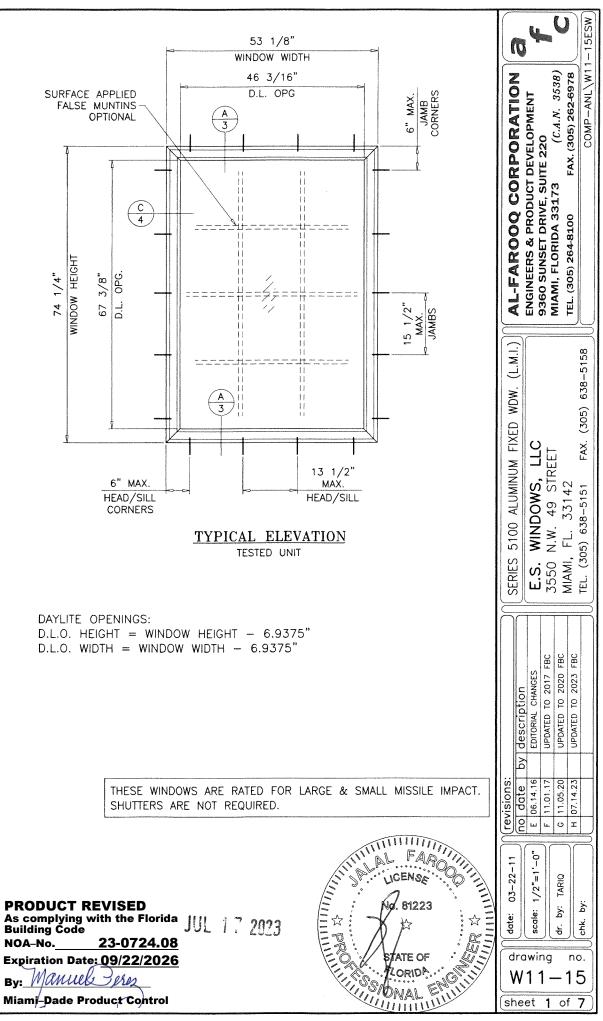
Statement letter of conformance, complying with FBC 7th Edition (2020), with FBC 8th Edition (2023), and of no financial interest, dated July 14, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. 20-1116.01, issued to E.S. Windows, LLC for their Series "5100 Fixed Casement" Aluminum Fixed Window – L.M.I., approved on 02/04/21 and expiring on 09/22/26.

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Manuel Perez, P.E. Product Control Examiner NOA No. 23-0724.08 Expiration Date: September 22, 2026 Approval Date: September 21, 2023



SERIES 5100 ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH SERIES 5000 CASEMENT WINDOWS USING MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM CASEMENT WINDOW, FIXED WINDOW OR MULLION CHART 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.

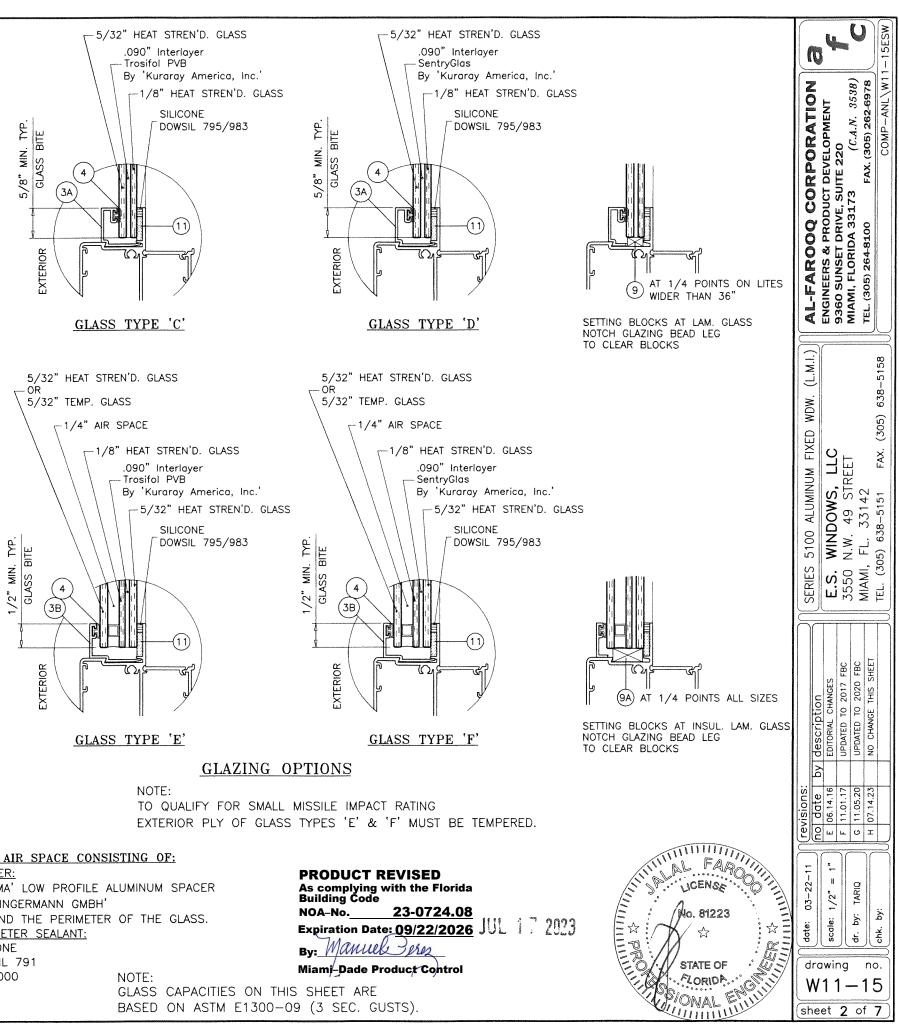
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

DAYLITE OPENINGS:

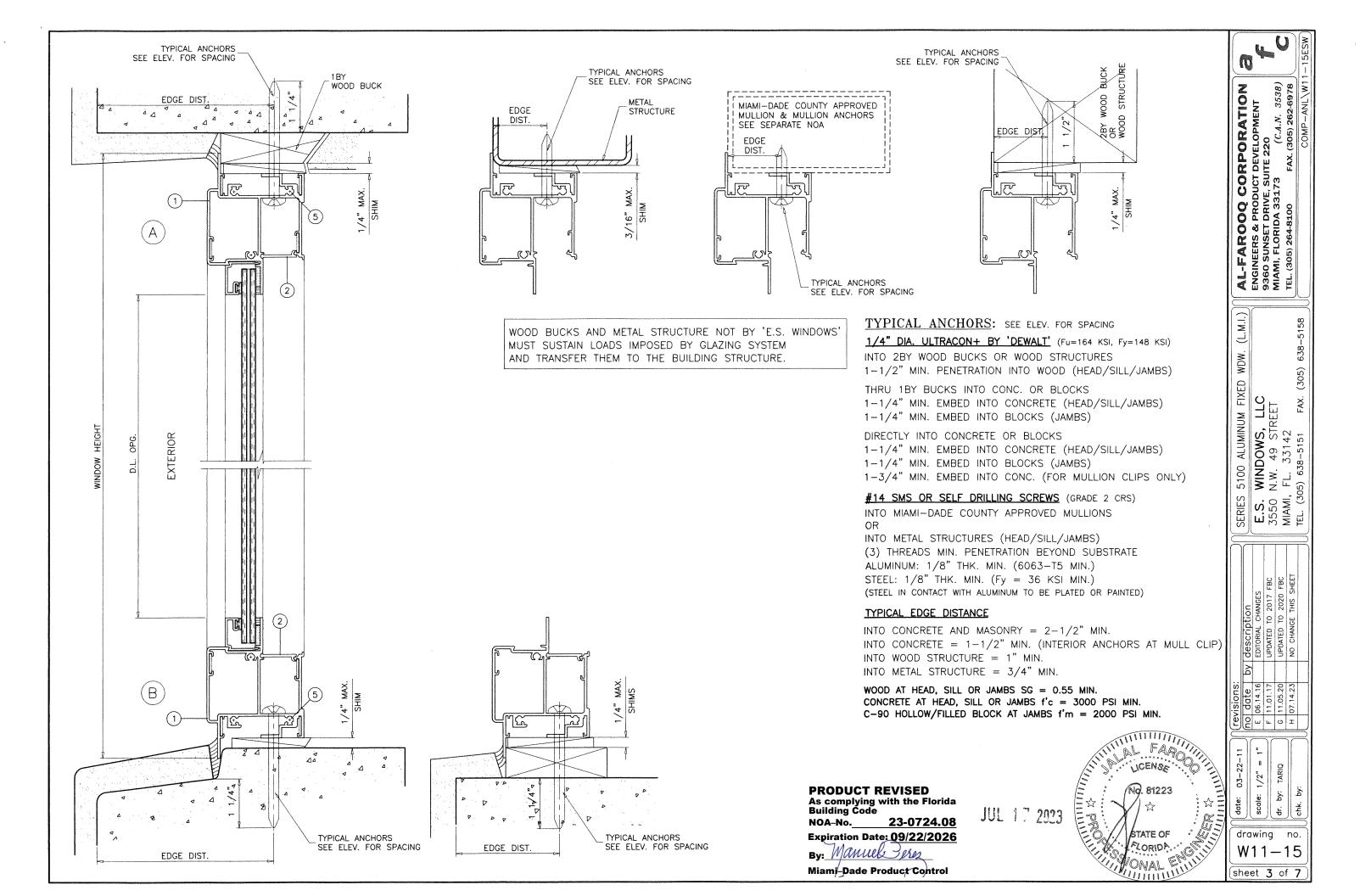
PRODUCT REVISED NOA-No. Expiration Date: 09/22/2026 By: Manuel Peres

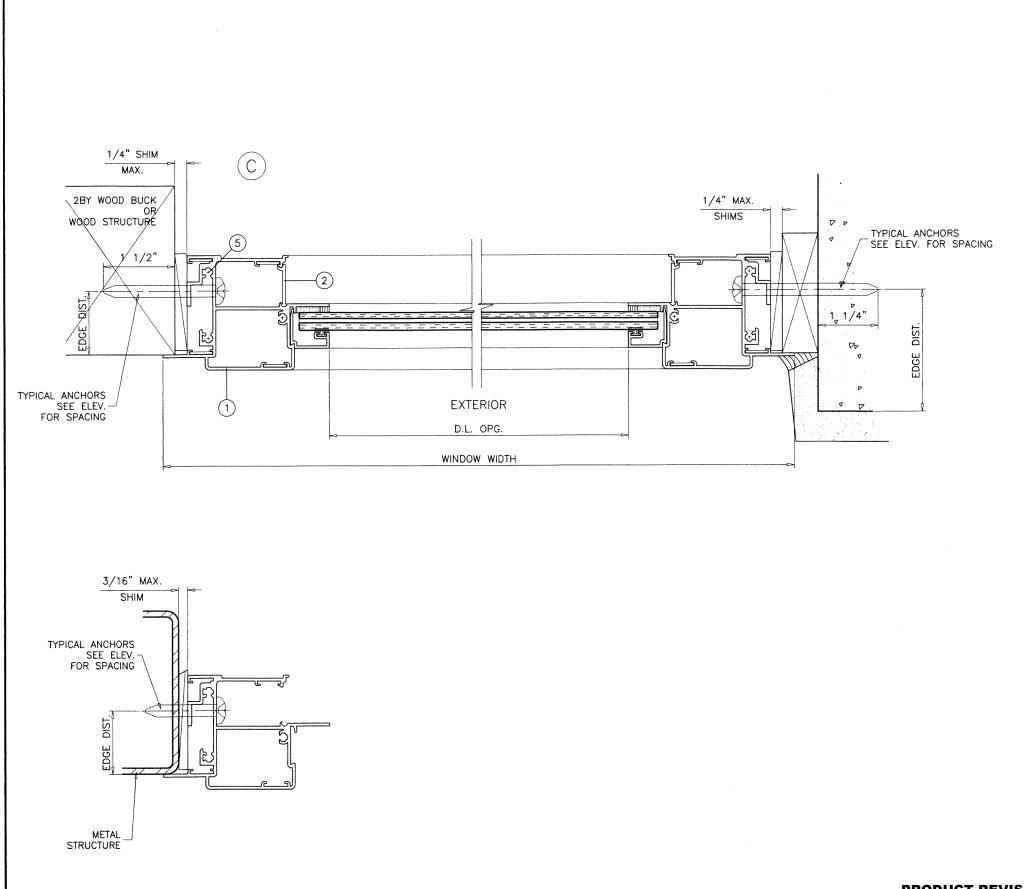
	GIV LOAD CA	APACITY -		DESI		APACITY -		
WINDOW DIMS.		GLASS TYPES 'C', 'D', 'E' & 'F'		WINDO	WINDOW DIMS.		GLASS TYPES 'C', 'D', 'E' & '	
IDTH (W)	LENGTH (L)	EXT.(+)	1NT.(-)	WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(
24"		90.0	90.0	19-1/8"		90.0	90.	
30"		90.0	90.0	26-1/2"	26"	90.0	90.	
36"		90.0	90.0	37"		90.0	90.	
42"	42"	90.0	90.0	48"		90.0	90.	
48"	12	90.0	90.0	53-1/8"		90.0	90.	
54"		90.0	90.0	62"		90.0	90.	
60"		90.0	90.0	19-1/8"		90.0	90.	
62"		90.0	90.0	26-1/2"		90.0	90.	
24"		90.0	90.0	37"	38-3/8"	90.0	90.	
24 30"		90.0	90.0	48"		90.0	90.	
						90.0	90.	
36"	40 ⁷	90.0	90.0	53-1/8"		90.0	90.	
42"	48"	90.0	90.0	62"				
48"		90.0	90.0	19-1/8"		90.0	90.	
54"		90.0	90.0	26-1/2"		90.0	90.0	
60"		90.0	90.0	37"	50-5/8"	90.0	90.	
62"		90.0	90.0	48"		90.0	90.	
24"		90.0	90.0	53-1/8"		90.0	90.	
30"		90.0	90.0	62"		90.0	90.	
36"		90.0	90.0	19-1/8"	63"	90.0	90.	
42"	54"	90.0	90.0	26-1/2"		90.0	90.	
48"		90.0	90.0	37"		90.0	90.	
54"		88.5	88.5	48"		90.0	90.	
60"		88.5	88.5	53-1/8"		90.0	90.	
62"		88.5	88.5	62"		77.1	77.	
24"		90.0	90.0	19-1/8"	74-1/4"	90.0	90.	
30"		90.0	90.0	26-1/2"		90.0	90.	
36"		90.0	90.0	37"		90.0	90.	
42"	60"	90.0	90.0	48"		90.0	90.	
42 48"	00	90.0	90.0	53-1/8"		90.0	90.	
				19-1/8"	76"	90.0	90.	
54"		88.5	88.5					
60"		79.7	79.7	26-1/2"		90.0	90.	
62"		79.7	79.7	37"		90.0	90.	
24" 79"		90.0	90.0	48"		90.0	90.	
30"		90.0	90.0	51"		90.0	90.	
36"	*	90.0	90.0				-	
42"	66"	90.0	90.0					
48"		90.0	90.0				TF	
54"		88.5	88.5					
59"		81.0	81.0		L			
24"		90.0	90.0					
30"		90.0	90.0	₹			-	
36"	72"	90.0	90.0		1150			
42"		90.0	90.0	3	11/11			
48"		90.0	90.0					
54"		88.5	88.5					
24"		90.0	90.0	NOTE				
30"		90.0	90.0	NOTE: WIDTH AND	LENGTH DIM	IENSIONS (AN RE	
36"	76"	90.0	90.0		OR HORIZOI			
		90.0	90.0					
42"								
42" 48"		90.0	90.0					



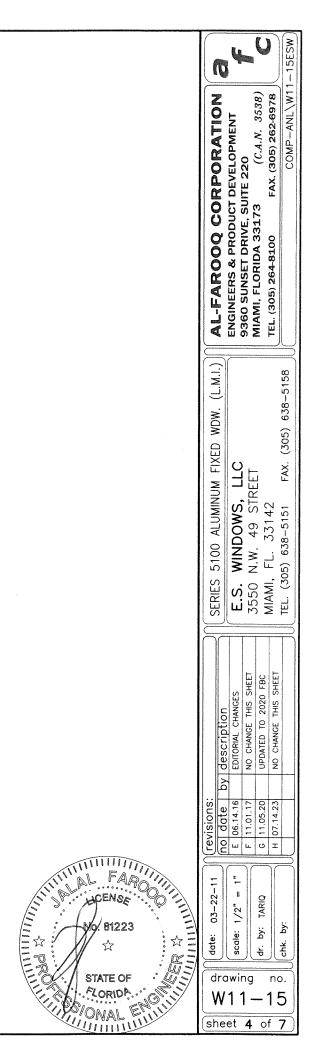
1/4" AIR SPACE CONSISTING OF:

SPACER: 'HELIMA' LOW PROFILE ALUMINUM SPACER BY 'LINGERMANN GMBH' AROUND THE PERIMETER OF THE GLASS. PERIMETER SEALANT: SILICONE DOWSIL 791 GE 2000

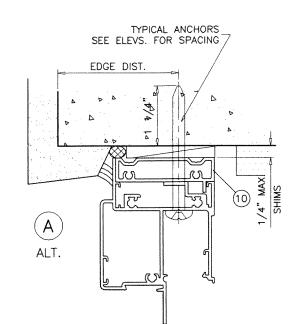


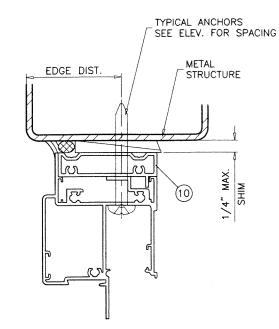


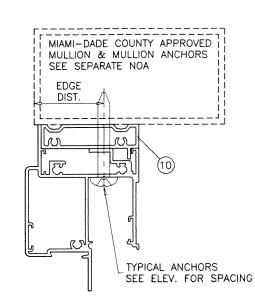
PRODUCT REVISED As complying with the Florida Building Code NOA-No. 23-0724.08 Expiration Date: 09/22/2026 By: Manue Sura Miami-Dade Product Control

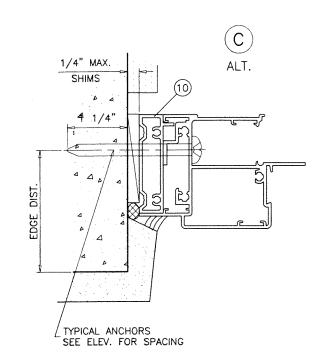


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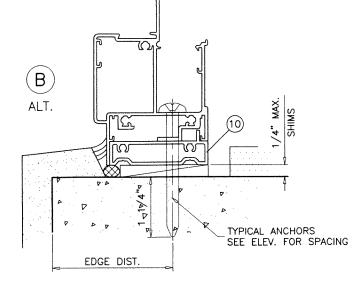




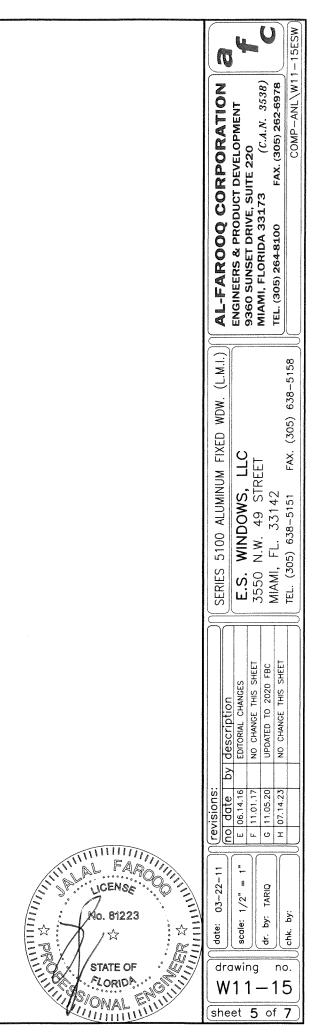


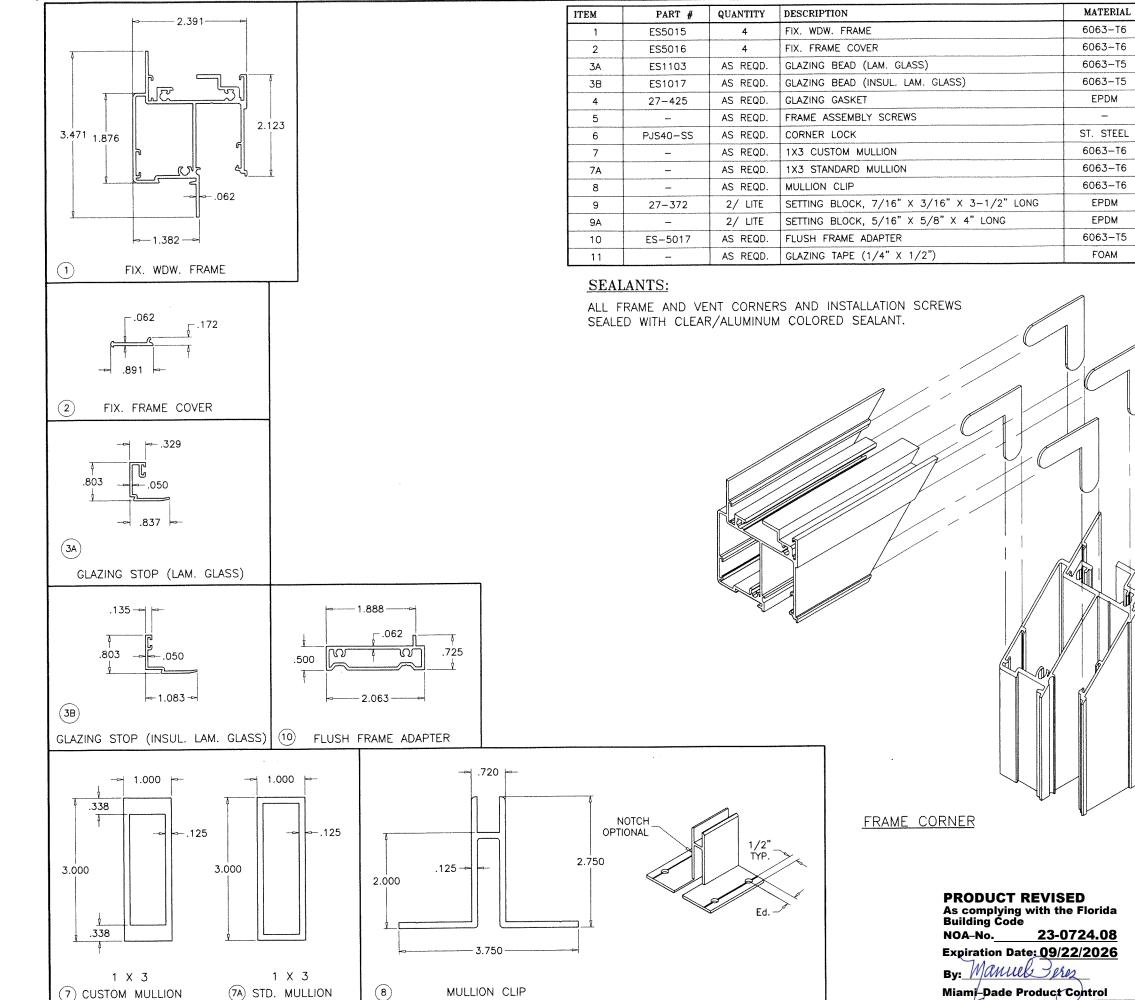


PRODUCT REVISED As complying with the Florida Building Code 23-0724.08 NOA-No. Expiration Date: 09/22/2026 JUL 17 2023 By: Manuel Jeres Miamj_Dade Product Control

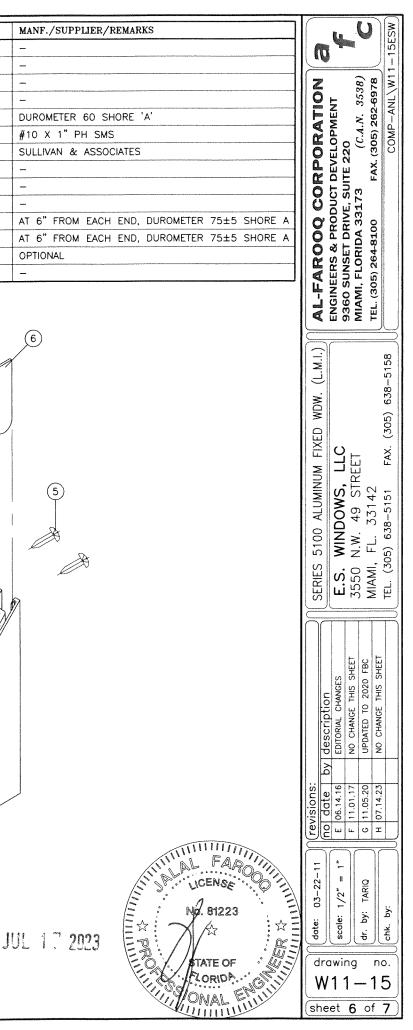


INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER





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	MULLION LC	DAD CAPACITY	- PSF	MULLION LOAD CAPACITY - PSF					
WINDOW DIMS.		1 X 3 STD. MULL	1 X 3 CUSTOM MULL	WINDOW DIMS.		1 X 3 STD. MULL	1 X 3 CUSTOM MULL		
		EXT.(+)	EXT.(+)			EXT.(+)	EXT.(+)		
WIDTH (W)	LENGTH (L)	INT.(-)	INT.(-)		LENGTH (L)	INT.(-)	INT.(-)		
26-1/2"		90.0	90.0	30"	54"	90.0	90.0		
37"		90.0	90.0	36"		90.0	90.0		
42"		90.0	90.0	42"		90.0	90.0		
45"	58"	90.0	90.0	48"		90.0	90.0		
48"	1	90.0	90.0	54"		90.0	90.0		
53-1/8"		90.0	90.0	60"		90.0	90.0		
62"		90.0	90.0	62"		90.0	90.0		
26-1/2"		90.0	90.0	30"	60"	90.0	90.0		
37"		90.0	90.0	36"		90.0	90.0		
42"		90.0	90.0	42"		90.0	90.0		
45"	63"	90.0	90.0	48"		90.0	90.0		
48"		90.0	90.0	54"		90.0	90.0		
53-1/8"		90.0	90.0	60"		90.0	90.0		
62"		90.0	90.0	62"		90.0	90.0		
26-1/2"	74-1/4"	90.0	90.0	30"		90.0	90.0		
37"		90.0	90.0	36"		90.0	90.0		
42"		82.5	90.0	42"		90.0	90.0		
45"		78.6	90.0	48"	66"	90.0	90.0		
48"		75.4	87.4	54"		90.0	90.0		
53-1/8"		71.0	83.2	59"		90.0	90.0		
26-1/2"	76"	90.0	90.0	30"		90.0	90.0		
37"		84.2	90.0	36"		90.0	90.0		
42"		76.4	90.0	42"	72"	90.0	90.0		
45"		72.8	87.6	48"		83.6	90.0		
48"		69.7	84.5	54"		78.4	86.8		
51"		67.1	81.9	30"		90.0	90.0		
		1	لى بى	36"		86.1	90.0		
				42"	76"	76.4	90.0		
				48"		69.7	84.5		
				I			1		

51"

67.1

NOTES:

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1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.

2. FOR FIXED WINDOW CAPACITY SEE SHEET 2 OF 7.

3. LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

CLIPPED MULLIONS

