

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

BOARD AND CODE ADMINISTRATION DIVISION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

PRODUCT CONTROL SECTION

www.miamidade.gov/building

MIAMI-DADE COUNTY

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 "9500" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. W10-25, titled "Series 9500 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 9 of 9, dated 04/20/10, with revision E dated 01/09/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Faroog, 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. 19-0516.02 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.

MIAMI-DADE COUNTY APPROVED

NOA No. 21-0127.07 **Expiration Date: October 28, 2024** Approval Date: April 29, 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. 09-0623.01)
- 2. Drawing No. W10-25, titled "Series 9500 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 9 of 9, dated 04/20/10, with revision **D** dated 01/25/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. (Submitted under NOA No. 18-0212.03)

В. **TESTS**

- Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94 1.
 - 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 window, both prepared by Fenestration Testing Laboratory, Inc., Test Reports No. FTL-6129, dated 03/10/10, and FTL-5991, dated 10/02/09, both signed and sealed by Jorge A. Causo, P.E.

(Submitted under NOA No. 09-0623.01)

- 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) Forced Entry Test, FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-5546, dated 01/09/09, signed and sealed by Michael R. Wenzel, P.E.

(Submitted under NOA No. 09-0623.01)

C. **CALCULATIONS**

Anchor verification calculations and structural analysis, complying with FBC 6th 1. Edition (2017), dated 09/29/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

(Submitted under NOA No. 18-0212.03)

2. Glazing complies with ASTM E1300-09

> Manuel Perez, P.E **Product Control Examiner**

> > NOA No. 21-0127.07

Expiration Date: October 28, 2024

Approval Date: April 29, 2021

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- D. QUALITY ASSURANCE
 - 1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/28/17, expiring on 07/04/23.
- 2. Notice of Acceptance No. 17-1114.14 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC** 6th **Edition (2017)**, dated May 13, 2019, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. (Submitted under NOA No. 19-0516.02)
- 2. Laboratory compliance letter for Test Reports No. FTL-6129, dated 03/10/10, and FTL-5991, dated 10/02/09, both issued by Fenestration Testing Laboratory, Inc., both signed and sealed by Jorge A. Causo, P.E. (Submitted under NOA No. 09-0623.01)
- 3. Laboratory compliance letter for Test Report No. FTL-5546, dated 01/09/09, issued by Fenestration Testing Laboratory, Inc., signed and sealed by Michael R. Wenzel, P.E.

(Submitted under NOA No. 09-0623.01)

G. OTHERS

1. Notice of Acceptance No. **18-0212.03**, issued to E.S. Windows, LLC for their Series "9500" Aluminum Fixed Window - L.M.I., approved on 05/03/18 and expiring on 10/28/19.

Manuel Perez, P.E. Product Control Examiner NOA No. 21-0127.07

Expiration Date: October 28, 2024 Approval Date: April 29, 2021

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. W10-25, titled "Series 9500 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 9 of 9, dated 04/20/10, with revision E dated 01/19/21, 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** 6th **Edition (2017)**, dated 09/29/17, and 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® Xtra™ (SGX™) Clear Glass Interlayer" dated 05/23/19, expiring on 05/23/24.
- 2. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC 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.

G. OTHERS

1. Notice of Acceptance No. **19-0526.02**, issued to E.S. Windows, LLC, for their Series "9500" Aluminum Fixed Window – L.M.I., approved on 06/20/19 and expiring on 10/28/24.

Manuel Perez, P.E. Product Control Examiner NOA No. 21-0127.07/

Expiration Date: October 28, 2024 Approval Date: April 29, 2021

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

SERIES 9500 ALUMINUM FIXED WINDOWS

DESIGN LOAD CAPACITY FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

SEE GLASS LOAD CAPACITY CHART FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

SEE ANCHOR LOAD CAPACITY CHART FOR NUMBER OF ANCHORS REQUIRED AT EACH CORNER.

LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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

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.

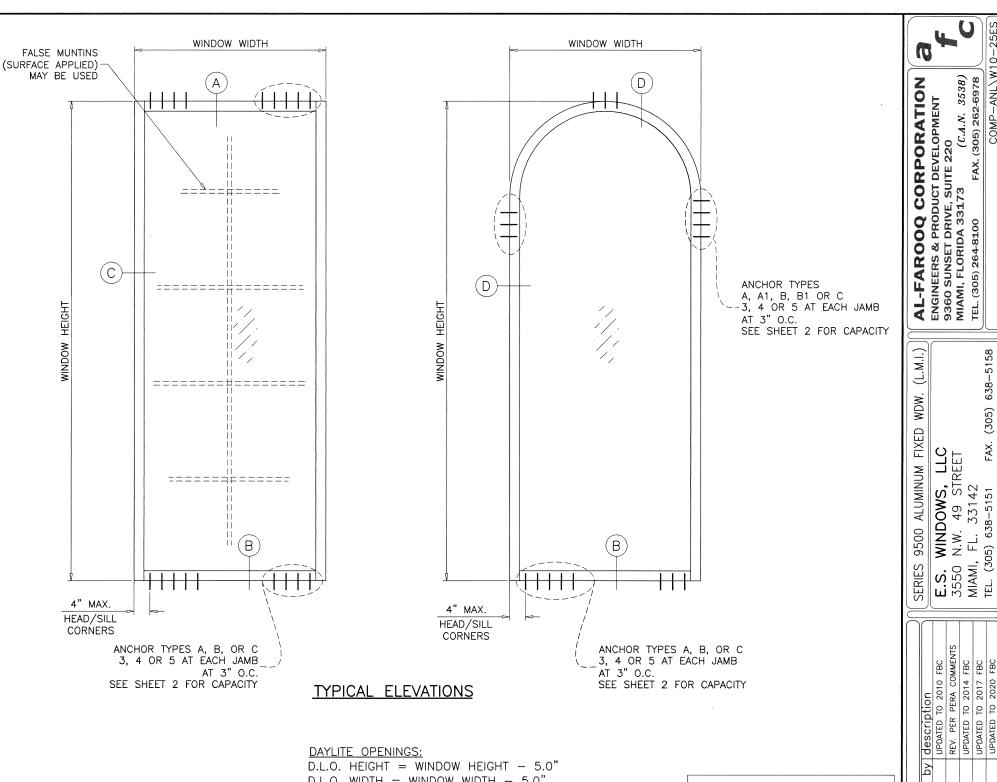
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 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:

WINDOWS WITH GLASS TYPES 'A' & 'B' COMPLIES

WITH REQUIREMENTS OF ANSI Z97.1.

D.L.O. HEIGHT = WINDOW HEIGHT - 5.0" D.L.O. WIDTH = WINDOW WIDTH -5.0"

LAMINATED GLASS INSUL. LAM. GLASS LARGE MISSILE IMPACT

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0127.07

Expiration Date: 10/28/2024

Miami-Dade Product Control

JAN 2 1 2021

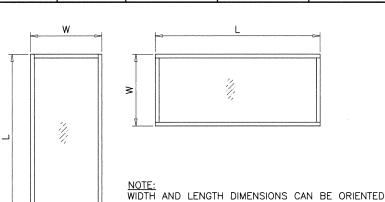


D C B P O G ь Э å. drawing

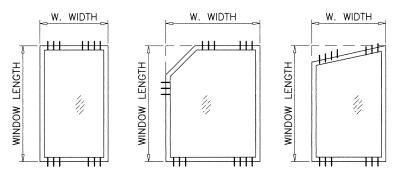
W10 - 25

sheet 1 of 9

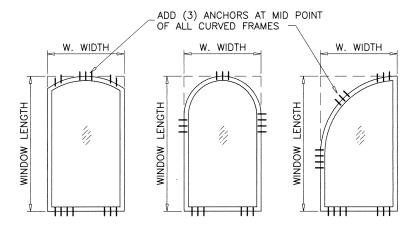
GLASS LOAD CAPACITY - PSF							
WINDO	W DIMS.	GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPES 'A1' & 'B1'			
WIDTH (W)	LENGTH (L)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)			
30"		65.0	120.0	90.0			
36"		65.0	120.0	90.0			
42"	90"	65.0	120.0	90.0			
48"	90	65.0	120.0	90.0			
54"		65.0	120.0	90.0			
60"		65.0	120.0	90.0			
30"		65.0	120.0	90.0			
36"		65.0	120.0	90.0			
42"	96"	65.0	120.0	90.0			
48"	96	65.0	120.0	90.0			
54"		65.0	120.0	90.0			
60"		65.0	120.0	90.0			
30"		65.0	120.0	90.0			
36"		65.0	120.0	90.0			
42"	102"	65.0	120.0	90.0			
48"		65.0	120.0	90.0			
54"		65.0	120.0	90.0			
30"		65.0	120.0	90.0			
36"	108"	65.0	120.0	90.0			
42"	100	65.0	120.0	90.0			
48"		65.0	120.0	90.0			
30"		65.0	120.0	90.0			
36"	114" 65.0 120.0		90.0				
42"	114	65.0	120.0	90.0			
48"		65.0	120.0	90.0			
30"		65.0	120.0	90.0			
36"	120"	65.0	5.0 120.0 90.0				
42"	120	65.0	120.0	90.0			
48"		65.0	120.0	90.0			



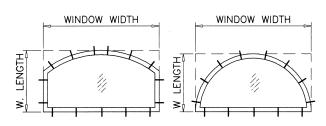
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



SEE CHART AT RIGHT FOR NUMBER OF ANCHORS REQUIRED AT EACH CORNER OF THESE SHAPES.



SEE CHART AT RIGHT FOR NUMBER OF ANCHORS REQUIRED AT EACH CIRCULAR OR SQUARE CORNER JOINT.
USE (3) ADDL. ANCHORS AT MID POINT OF CIRCULAR FRAMES.



ALTERNATE ANCHORING AT CIRCULAR SHAPES
USE ANCHORS AT 4" FROM EACH END AND 16" O.C. MAX.

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.

NOTE:
SEE GLASS LOAD CAPACITY CHART FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.
SEE ANCHOR LOAD CAPACITY CHART FOR NUMBER OF ANCHORS
REQUIRED AT EACH CORNER.
LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS WILL
APPLY TO ENTIRE SYSTEM.

ANCHORS LOAD CAPACITY - PSF								
		ANCHOR TYPES			ANCHOR TYPES			
		'A', 'B' & 'C' 3 ANCHORS 4 ANCHORS 5 ANCHORS		'A1' & 'B1'				
WINDOW DIMS.								
WIDTH (W)	LENGTH (L)	EXT. (+) INT. (–)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (–)	EXT. (+) INT. (-)	
30"		120.0	120.0	120.0	120.0	120.0	120.0	
36"	90"	120.0	120.0	120.0	120.0	120.0	120.0	
42"		115.7	120.0	120.0	106.8	120.0	120.0	
48"	90	101.2	120.0	120.0	94.2	120.0	120.0	
54"		90.0	119.9	120.0	84.4	112.5	120.0	
60"		81.0	107.9	120.0	76.5	102.0	120.0	
30"	96"	120.0	120.0	120.0	120.0	120.0	120.0	
36"		120.0	120.0	120.0	115.7	120.0	120.0	
42"		108.4	120.0	120.0	99.8	120.0	120.0	
48"		94.9	120.0	120.0	88.0	117.3	120.0	
54"		84.3	112.4	120.0	78.8	105.0	120.0	
60"		75.9	101.2	120.0	71.4	95.2	120.0	
30"		120.0	120.0	120.0	120.0	120.0	120.0	
36"		119.1	120.0	120.0	108.6	120.0	120.0	
42"	102"	102.1	120.0	120.0	93.7	120.0	120.0	
48"		89.3	119.1	120.0	82.5	110.0	120.0	
54"		79.4	105.8	120.0	73.8	98.5	120.0	
30"		120.0	120.0	120.0	120.0	120.0	120.0	
36"	108"	112.4	120.0	120.0	102.3	120.0	120.0	
42"	100	96.4	120.0	120.0	88.3	117.7	120.0	
48"		84.3	112.4	120.0	77.7	103.6	120.0	
30"	114"	120.0	120.0	120.0	115.4	120.0	120.0	
36"		106.5	120.0	120.0	96.8	120.0	120.0	
42"		91.3	120.0	120.0	83.4	111.2	120.0	
48"		79.9	106.5	120.0	73.4	97.9	120.0	
30"	120"	120.0	120.0	120.0	109.5	120.0	120.0	
36"		101.2	120.0	120.0	91.8	120.0	120.0	
42"		86.7	115.7	120.0	79.1	105.4	120.0	
48"		75.9	101.2	120.0	69.6	92.8	116.0	

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

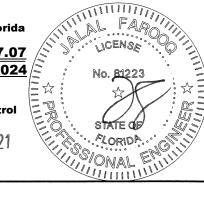
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0127.07

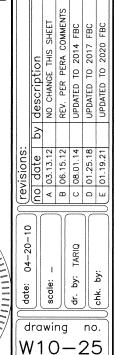
Expiration Date: 10/28/2024

Bu: Manuel Peres

Miami-Dade Product Control

JAN 2 1 2021





sheet 2 of 9

 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

 9360 SUNSET DRIVE, SUITE 220

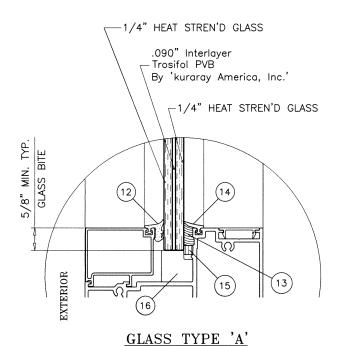
 MIAMI, FLORIDA 33173
 (C.A.N. 3538)

 TEL. (305) 264-8100
 FAX. (305) 262-6978

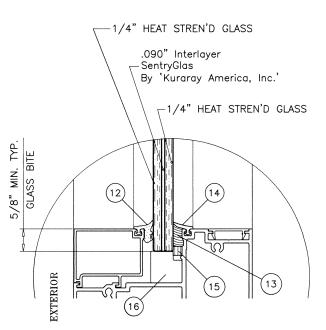
(L.M.I.)

SERIES 9500 ALUMINUM FIXED WDW.

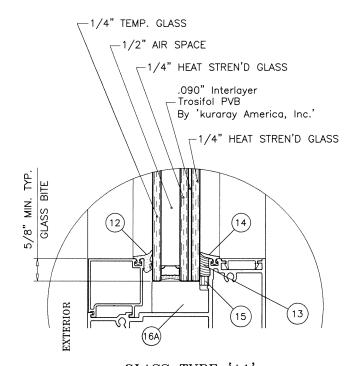
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638–5151 FAX.

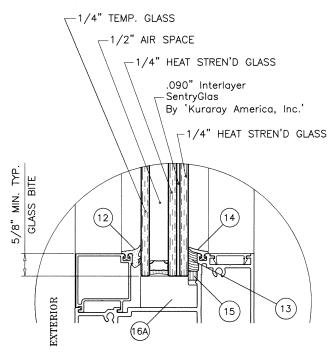


9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'B' 9/16" OVERALL LAMINATED GLASS





GLASS TYPE 'A1' 1-5/16" OVERALL INSUL. LAM. GLASS

GLASS TYPE 'B1' 1-5/16" OVERALL INSUL. 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. 21-0127.07

Expiration Date: 10/28/2024

Miami-Dade Product Control



\vdash					<u>ー</u> '	\equiv
CERIES 9500 ALLIMINIMI EIXEN WOW	CENTED SOOD VICTURIAGE TIMES (C.M.)	E.S. WINDOWS, LLC	3550 NW 49 STREET	MINM 51 22140		
	date by description	UPDATED TO 2010 FBC	REV. PER PERA COMMENTS	UPDATED TO 2014 FBC	UPDATED TO 2017 FBC	UPDATED TO 2020 FBC
revisions:	o U	A 03.13.12	B 06.15.12	C 08.01.14	D 01.25.18	E 01.19.21
date: 04-20-10		scale: 3/8" = 1"		dr. by: TARIQ		chk. by:
M M	ra / 1	wii	ng) –	- 2	nc 25	,. 5
sh	iee	et	3	0	f (<u>9</u>

 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

