



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

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 "1500" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W03-57**, titled "Series-1500 Aluminum Fixed Window (L.M.I.)", sheets 1 through 7 and 7, dated 07/31/03, with revision **I** dated 11/12/20, 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.

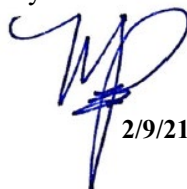
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 NOA No. 17-1114.10** 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.**




2/9/21

NOA No. 20-1208.09
Expiration Date: November 06, 2023
Approval Date: February 18, 2021

Page
1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

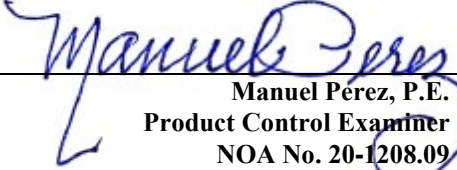
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 13-0910.01)
2. Drawing No. **W03-57**, titled "Series-1500 Aluminum Fixed Window (L.M.I.)", sheets 1 through 7 of 7, dated 07/31/03, with revision **H** dated 09/27/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 17-1114.10)

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 window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5339**, dated 02/11/08, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 08-0417.06)
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 an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5054**, dated 10/03/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 06-0308.05)
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 an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-3810**, **FTL-3819** and **FTL-3808**, dated 05/16/03, 06/09/03 and 05/14/03 respectively, all signed and sealed by Joseph C. Chan, P.E.
(Submitted under NOA No. 03-0910.01)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1208.09
Expiration Date: November 06, 2023
Approval Date: February 18, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

C. CALCULATIONS

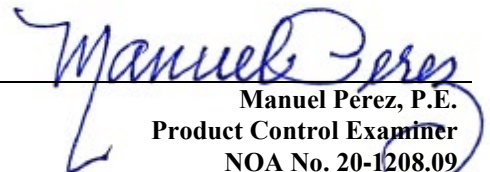
1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, and with **FBC 5th Edition (2014)**, dated 09/10/14 and 02/09/15, and updated on 09/27/17 to comply with **FBC 6th Edition (2017)**, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 17-1114.10)
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.
2. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/19/17, expiring on 07/08/19.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1208.09

Expiration Date: November 06, 2023
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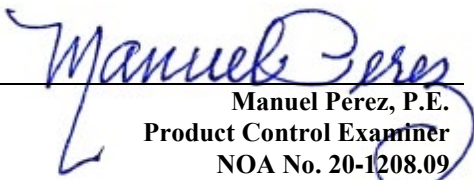
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

1. Statement letter of conformance, complying to **FBC 5th Edition (2014)** and **FBC 6th Edition (2017)** and of no financial interest dated September 27, 2017, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 17-1114.10)
2. Distributor Agreement, dated 10/20/10, signed by Carla Garcia Torrente and by Andres Chamorro. *(Submitted under NOA No. 12-0223.41)*
3. Laboratory compliance letter for Test Report No. **FTL-6236**, issued by Fenestration Testing Laboratory, Inc., dated 06/15/10, signed and sealed by Jorge A. Causo, P.E.
(Submitted under NOA No. 12-0223.41)
4. Proposal No. **09-1583** issued by Product Control, dated 11/23/09, signed by Jaime D. Gascon, P.E. *(Submitted under NOA No. 08-0417.06)*
5. Laboratory compliance letter for Test Report No. **FTL-5339**, issued by Fenestration Testing Laboratory, Inc., dated 02/11/08, signed and sealed by Michael R. Wenzel, P.E. *(Submitted under NOA No.08-0417.06)*
6. Laboratory compliance letter for Test Report No. **FTL-5054**, issued by Fenestration Testing Laboratory, Inc., dated 10/03/06, signed and sealed by Edmundo Largaespada, P. E. *(Submitted under NOA No.06-0308.05)*
7. Laboratory compliance letter for Test Reports No. **FTL-3810**, **FTL-3819** and **FTL-3808**, issued by Fenestration Testing Laboratory, Inc., dated 05/16/03, 06/09/03 and 05/14/03, all signed and sealed by Joseph C. Chan, P.E.
(Submitted under NOA No. 03-0910.01)

G. OTHERS

1. Notice of Acceptance No. **14-0923.08**, issued to ES Windows, LLC, for their Series "1500" Aluminum Fixed Window – L.M.I., approved on 02/12/15 and expiring on 11/06/18.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1208.09
Expiration Date: November 06, 2023
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W03-57**, titled “Series-1500 Aluminum Fixed Window (L.M.I.)”, sheets 1 through 7 of 7, dated 07/31/03, with revision **I** dated 11/12/20, 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-2010, FBC 5th Edition (2014)** and **FBC 6th Edition (2017)**, dated 09/10/14, 02/09/15 and 09/27/17, 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

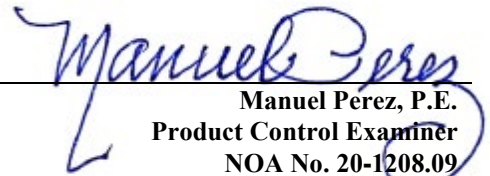
1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.

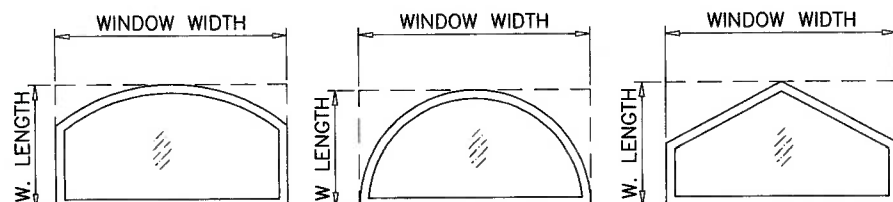
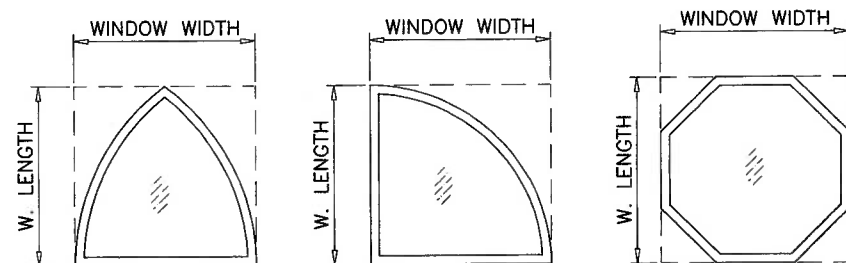
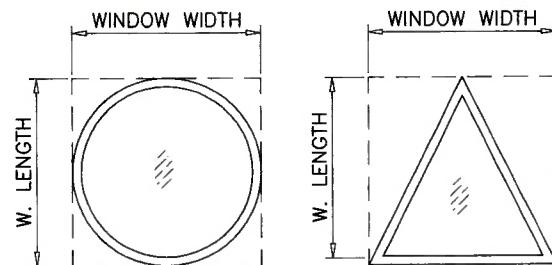
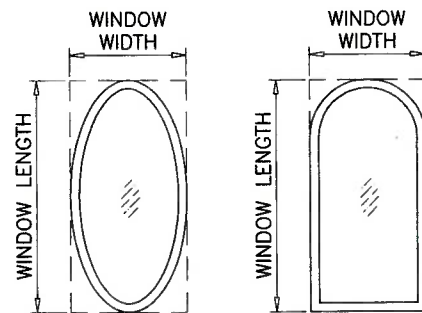
F. STATEMENTS

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. **17-1114.10**, issued to ES Windows, LLC, for their Series “1500” Aluminum Fixed Window – L.M.I., approved on 02/01/18 and expiring on 11/06/23.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1208.09
Expiration Date: November 06, 2023
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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.

SERIES-1500 ALUMINUM FIXED WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER MIAMI-DADE COUNTY APPR'D WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

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.

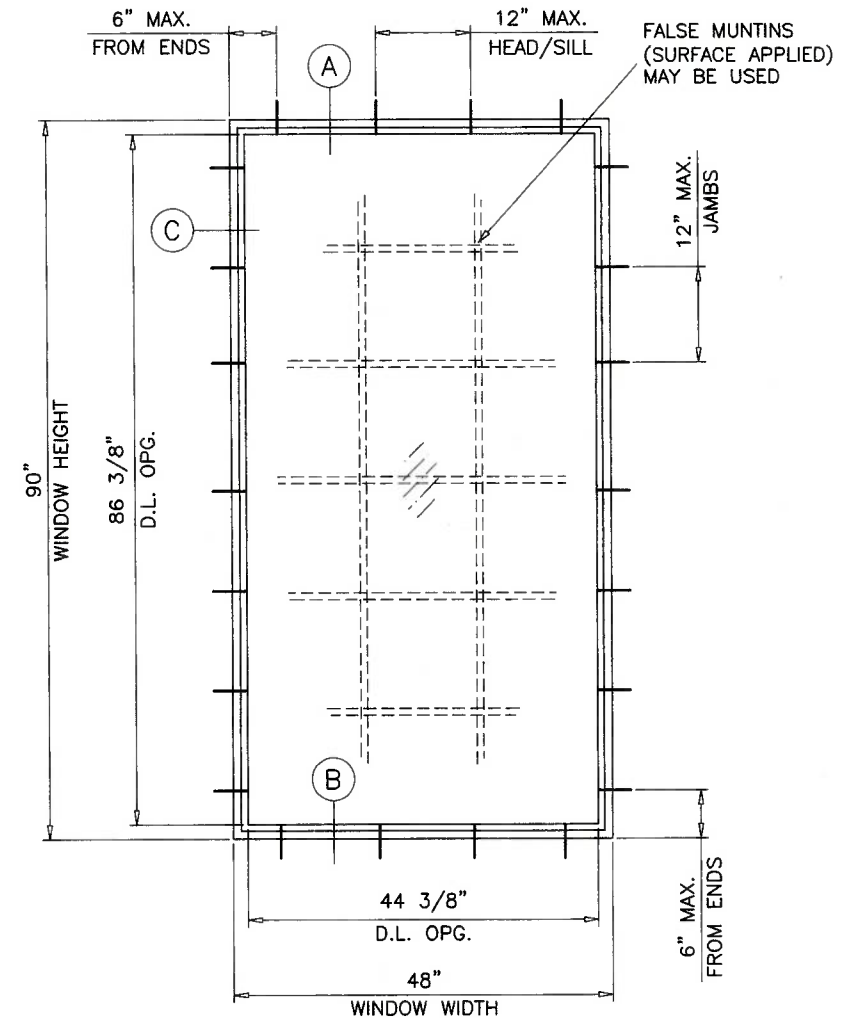
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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)'.



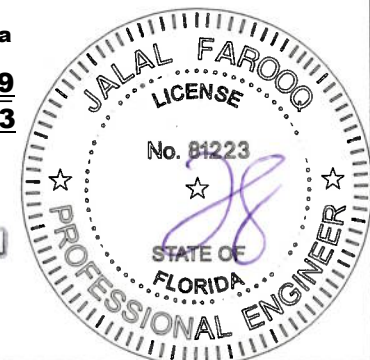
TYPICAL ELEVATION

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **20-1208.09**
Expiration Date: **11/06/2023**

By: *Manuel Torres*
Miami-Dade Product Control

DEC 0 1 2020



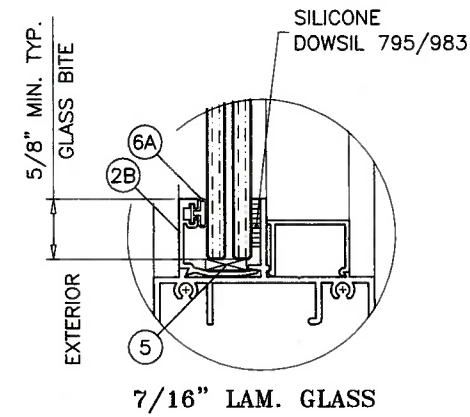
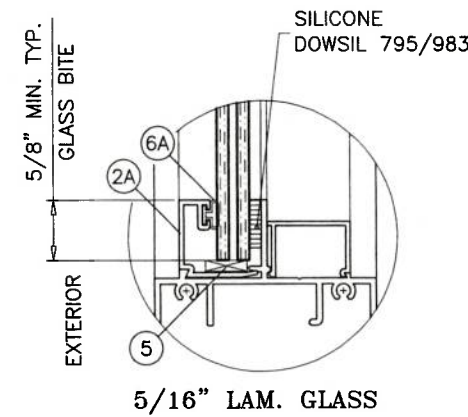
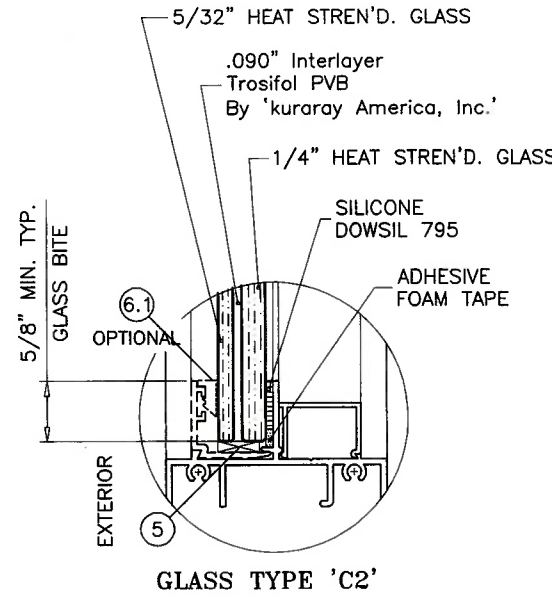
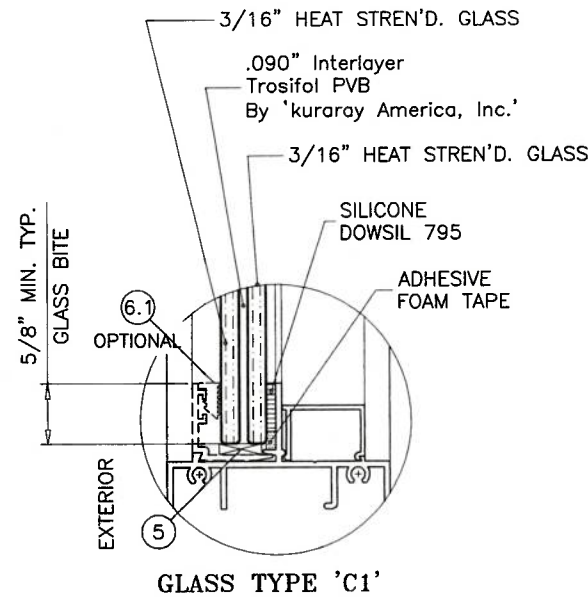
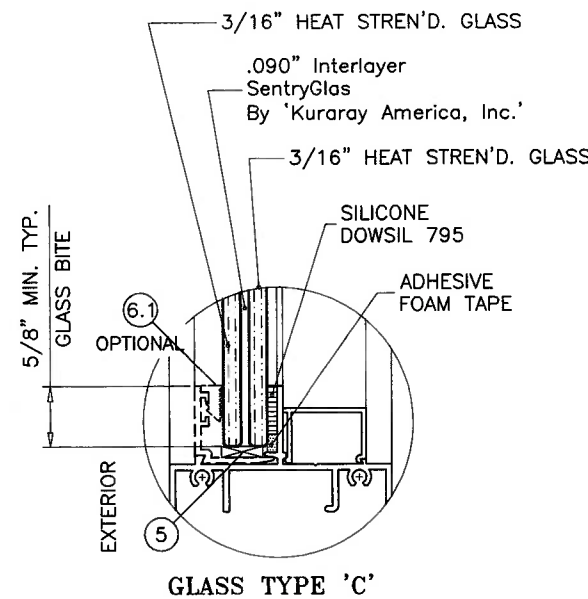
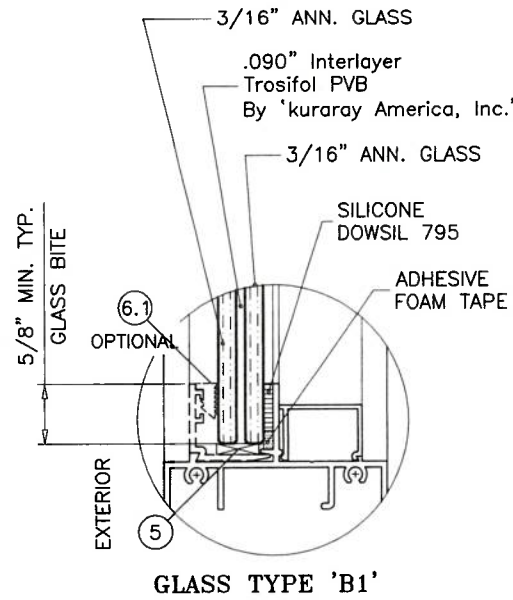
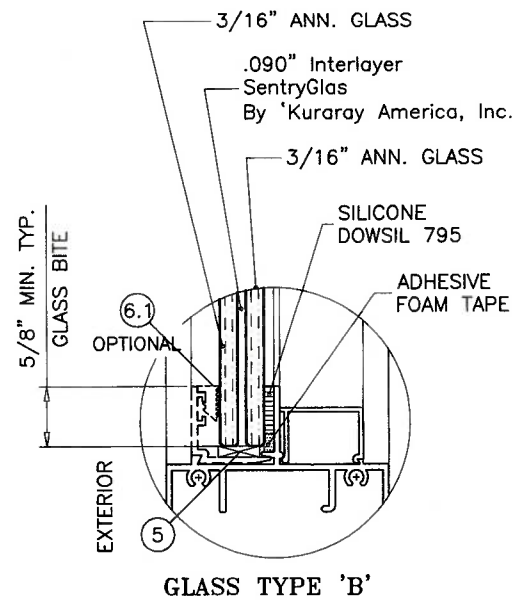
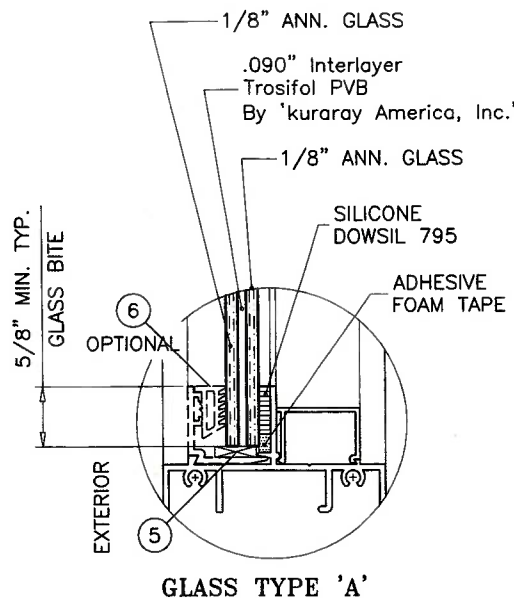
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-57ESW

SERIES-1500 ALUMINUM FIXED WINDOW (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
F	08.22.14	1	08.22.14	by	UPDATED TO 2014 FBC
G	01.30.15	2	01.30.15	by	NO CHANGE THIS SHEET
H	09.27.17	3	09.27.17	by	UPDATED TO 2017 FBC
I	11.12.20	4	11.12.20	by	UPDATED TO 2020 FBC

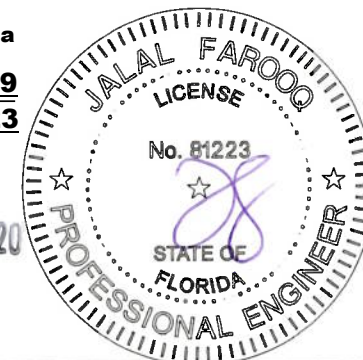
date:	07-31-03
scale:	1/2" = 1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.	W03-57
sheet	1 of 7



ALT. GLAZING OPTIONS
SQUARE GLAZING STOP CAN BE USED WITH ALL GLASS TYPES SHOWN ON THIS SHEET.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-1208.09**
Expiration Date: **11/06/2023**
By: *Manuel Torres*
Miami-Dade Product Control
DEC 0 1 2020



SERIES-1500 ALUMINUM FIXED WINDOW (L.M.I.)
E.S. WINDOWS, LLC
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-57ESW

Revisions:		date	description
no	date	description	
F	08.22.14	NO CHANGE THIS SHEET	
G	01.30.15	NO CHANGE THIS SHEET	
H	09.27.17	UPDATED TO 2017 FBC	
I	11.12.20	UPDATED TO 2020 FBC	

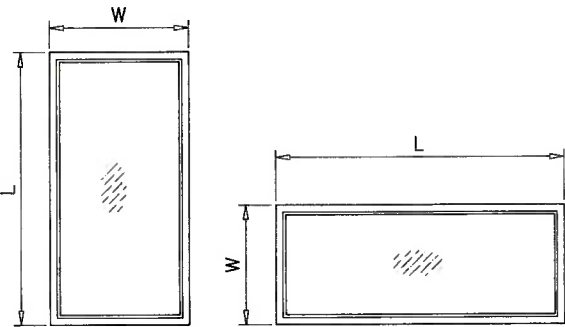
date:	07-31-03
scale:	1/2" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.	W03-57
sheet	2 of 7

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C', 'C1' & 'C2'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
18"	36"	70.0	70.0	70.0	90.0	70.0	80.0
24"		70.0	70.0	70.0	90.0	70.0	80.0
30"		70.0	70.0	70.0	90.0	70.0	80.0
36"		70.0	70.0	70.0	90.0	70.0	80.0
42"		70.0	70.0	70.0	90.0	70.0	80.0
48"		70.0	70.0	70.0	90.0	70.0	80.0
54"		70.0	70.0	70.0	90.0	70.0	80.0
60"		67.3	67.3	70.0	90.0	70.0	80.0
18"	48"	70.0	70.0	70.0	90.0	70.0	80.0
24"		70.0	70.0	70.0	90.0	70.0	80.0
30"		70.0	70.0	70.0	90.0	70.0	80.0
36"		70.0	70.0	70.0	90.0	70.0	80.0
42"		60.0	60.0	70.0	90.0	70.0	80.0
48"		-	-	70.0	90.0	70.0	80.0
54"		-	-	70.0	90.0	70.0	80.0
60"		-	-	70.0	90.0	70.0	80.0
18"	60"	70.0	70.0	70.0	90.0	70.0	80.0
24"		70.0	70.0	70.0	90.0	70.0	80.0
30"		70.0	70.0	70.0	90.0	70.0	80.0
36"		67.3	67.3	70.0	90.0	70.0	80.0
42"		-	-	70.0	90.0	70.0	80.0
48"		-	-	70.0	90.0	70.0	80.0
54"		-	-	-	-	62.2	71.1
60"		-	-	-	-	56.0	64.0
18"	72"	70.0	70.0	70.0	90.0	70.0	80.0
24"		70.0	70.0	70.0	90.0	70.0	80.0
30"		64.2	64.2	70.0	90.0	70.0	80.0
36"		-	-	70.0	90.0	70.0	80.0
42"		-	-	-	-	70.0	80.0
48"		-	-	-	-	70.0	80.0
54"		-	-	-	-	62.2	71.1
60"		-	-	-	-	56.0	64.0
18"	84"	70.0	70.0	70.0	90.0	70.0	80.0
24"		70.0	70.0	70.0	90.0	70.0	80.0
30"		-	-	70.0	90.0	70.0	80.0
36"		-	-	-	-	70.0	80.0
42"		-	-	-	-	70.0	80.0
48"		-	-	-	-	70.0	80.0
18"	90"	70.0	70.0	70.0	90.0	70.0	80.0
24"		70.0	70.0	70.0	90.0	70.0	80.0
30"		-	-	70.0	90.0	70.0	80.0
36"		-	-	-	-	70.0	80.0
42"		-	-	-	-	70.0	80.0
48"		-	-	-	-	70.0	80.0
18"	96"	70.0	70.0	70.0	90.0	70.0	80.0
24"		-	-	70.0	90.0	70.0	80.0
30"		-	-	70.0	90.0	70.0	80.0
36"		-	-	-	-	70.0	80.0
42"		-	-	-	-	70.0	80.0

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

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C', 'C1' & 'C2'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
18"	108"	70.0	70.0	70.0	90.0	70.0	80.0
24"		-	-	70.0	90.0	70.0	80.0
30"		-	-	-	-	70.0	80.0
36"		-	-	-	-	70.0	80.0
18"	120"	56.2	56.2	70.0	90.0	70.0	80.0
24"		-	-	70.0	90.0	70.0	80.0
30"		-	-	-	-	70.0	80.0
36"		-	-	-	-	70.0	80.0



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

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C', 'C1' & 'C2'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
19-1/8"	26"	70.0	70.0	70.0	90.0	70.0	80.0
26-1/2"		70.0	70.0	70.0	90.0	70.0	80.0
37"		70.0	70.0	70.0	90.0	70.0	80.0
48"		70.0	70.0	70.0	90.0	70.0	80.0
53-1/8"		70.0	70.0	70.0	90.0	70.0	80.0
19-1/8"	38-3/8"	70.0	70.0	70.0	90.0	70.0	80.0
26-1/2"		70.0	70.0	70.0	90.0	70.0	80.0
37"		68.1	68.1	70.0	90.0	70.0	80.0
48"		65.7	65.7	70.0	90.0	70.0	80.0
53-1/8"		65.7	65.7	70.0	90.0	70.0	80.0
19-1/8"	50-5/8"	70.0	70.0	70.0	90.0	70.0	80.0
26-1/2"		70.0	70.0	70.0	90.0	70.0	80.0
37"		68.1	68.1	70.0	90.0	70.0	80.0
48"		-	-	70.0	90.0	70.0	80.0
53-1/8"		-	-	66.4	85.3	66.4	75.9
19-1/8"	58"	70.0	70.0	70.0	90.0	70.0	80.0
26-1/2"		70.0	70.0	70.0	90.0	70.0	80.0
37"		68.1	68.1	70.0	90.0	70.0	80.0
48"		-	-	70.0	90.0	70.0	80.0
53-1/8"		-	-	-	-	63.2	72.3
19-1/8"	63"	70.0	70.0	70.0	90.0	70.0	80.0
26-1/2"		70.0	70.0	70.0	90.0	70.0	80.0
37"		-	-	70.0	90.0	70.0	80.0
48"		-	-	-	-	70.0	80.0
53-1/8"		-	-	-	-	63.2	72.3
19-1/8"	74-1/4"	70.0	70.0	70.0	90.0	70.0	80.0
26-1/2"		70.0	70.0	70.0	90.0	70.0	80.0
37"		-	-	70.0	90.0	70.0	80.0
48"		-	-	-	-	70.0	80.0
53-1/8"		-	-	-	-	63.2	72.3

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.09
Expiration Date: 11/06/2023
By: Manuel Perez
Miami-Dade Product Control



afC

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

SERIES-1500 ALUMINUM FIXED WINDOW (L.M.I.)

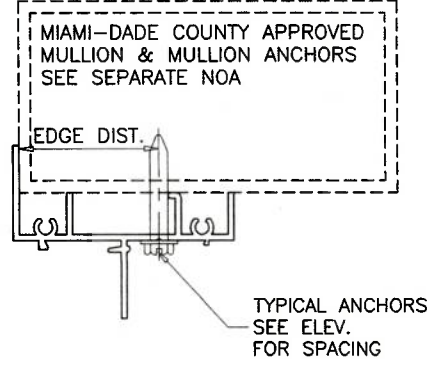
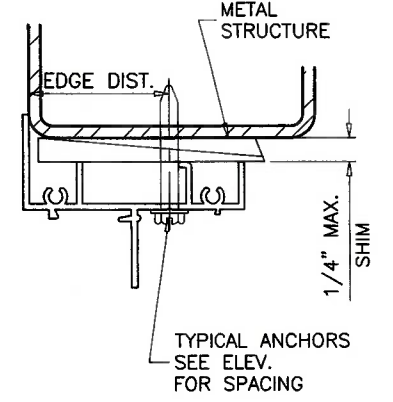
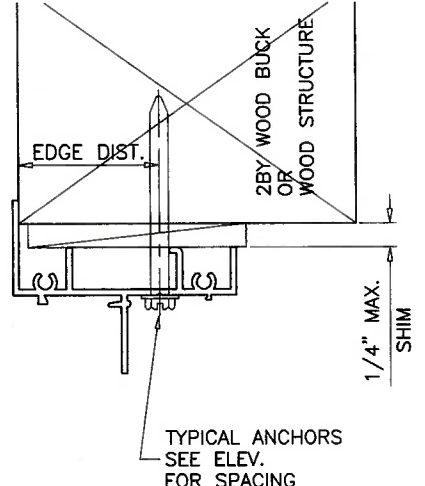
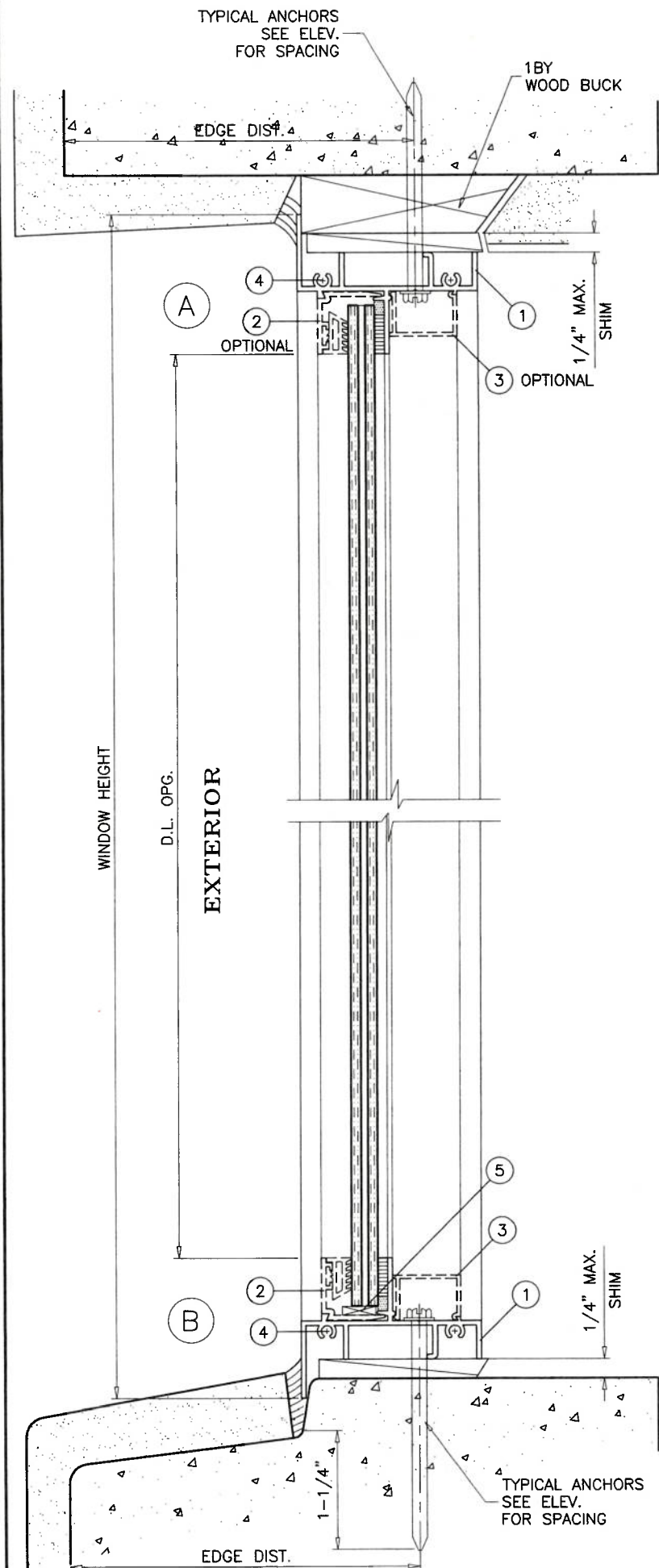
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
FAX. (305) 638-5158

revisions:
no. date by description
F 08.22.14 NO CHANGE THIS SHEET
G 01.30.15 REV. PER PER COMMENTS
H 09.27.17 UPDATED TO 2017 FBC
I 11.12.20 UPDATED TO 2020 FBC

date: 07-31-03
scale: -
dr. by: TARIQ
chk. by:

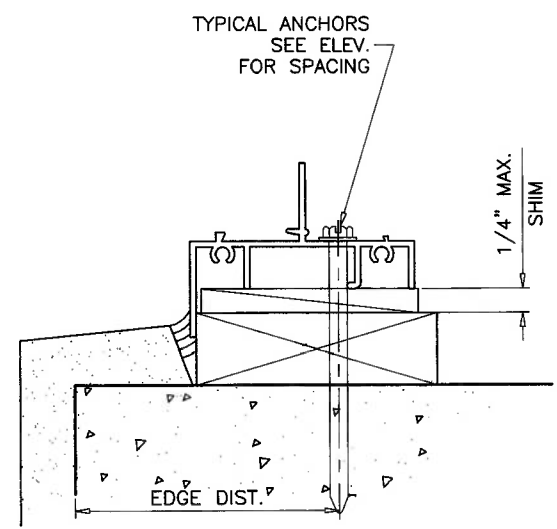
drawing no.
W03-57
sheet 3 of 7

COMP-ANL W03-57ESW



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

SEALANT:
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUM COLOR SILICONE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
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/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

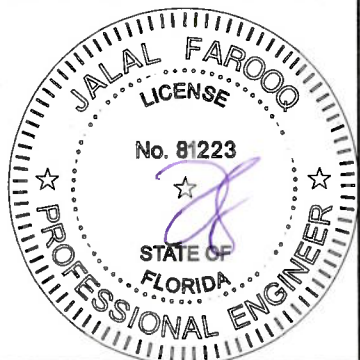
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE (NO SHIM SPACE)
 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)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 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.

PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. **20-1208.09**
 Expiration Date: **11/06/2023**
 By: *Manuel Perez*
 Miami-Dade Product Control
DEC 01 2020



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

COMP-ANL\W03-57ESW

SERIES-1500 ALUMINUM FIXED WINDOW (L.M.I.)

E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
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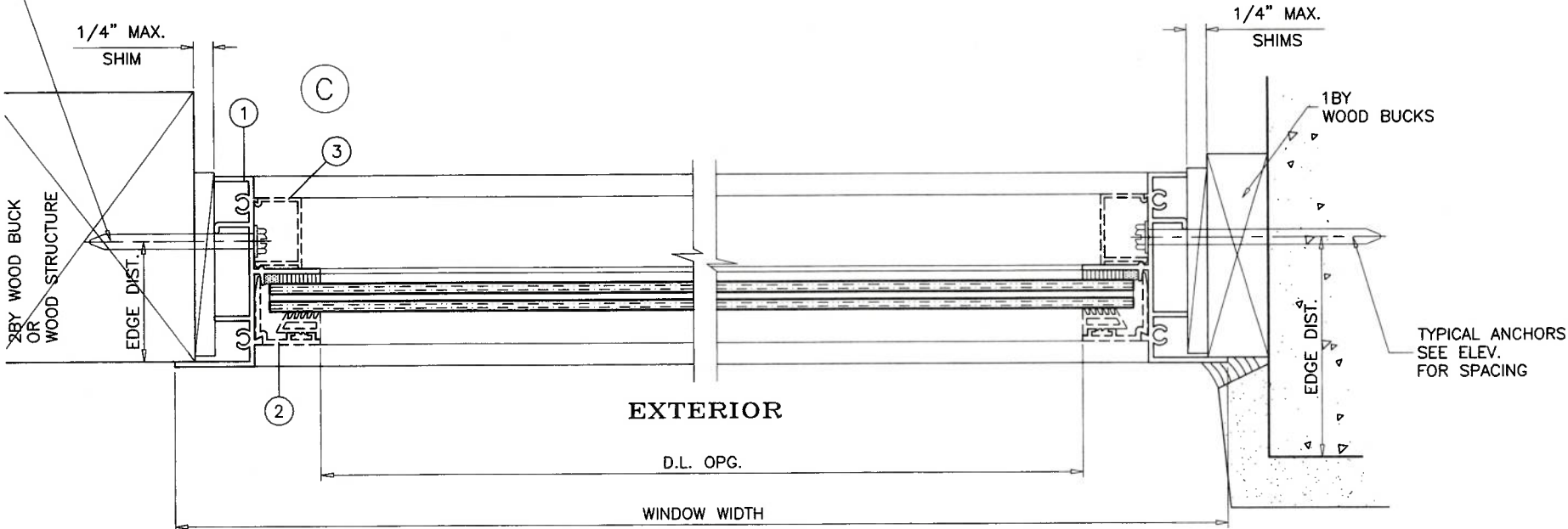
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 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

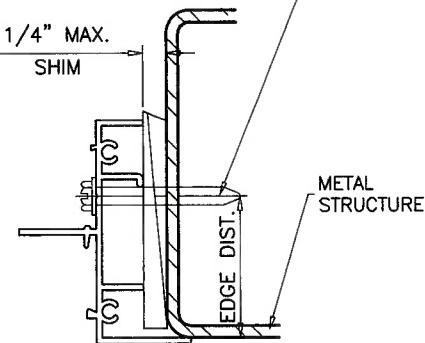
drawing no.
W03-57
 sheet 4 of 7

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES5001	4	WINDOW FRAME	6063-T6	-
2	ES1008	OPTIONAL	GLAZING STOP	6063-T6	-
2A	ES1103	4/ WDW.	GLAZING STOP (5/16" GLASS)	6063-T5	-
2B	ES1017	4/ WDW.	GLAZING STOP (7/16" GLASS)	6063-T5	-
3	ES5002	4	FRAME COVER (OPTIONAL)	6063-T5	-
4	#8 X 1"	AS REQD.	ASSEMBLY SCREWS	CRS	PH SMS
4A	#8 X 1/2"	AS REQD.	ASSEMBLY SCREWS	CRS	FH SMS
5	27-372	2/ LITE	SETTING BLOCK, 7/16" X 3/16" X 3-1/2" LONG	EPDM	DUROMETER 75±5 SHORE A
6	ES1010	OPTIONAL	GLAZING WEDGE	SOFT PVC	DUROMETER 70 SHORE 'A'
6.1	ES4013	OPTIONAL	GLAZING WEDGE	SOFT PVC	DUROMETER 70 SHORE 'A'
6A	27-425	4/ WDW.	GLAZING GASKET	EPDM	DUROMETER 60 SHORE 'A'
7	ES1505	-	FLUSH FRAME ADAPTER	6063-T5	OPTIONAL

TYPICAL ANCHORS
SEE ELEV. FOR SPACING

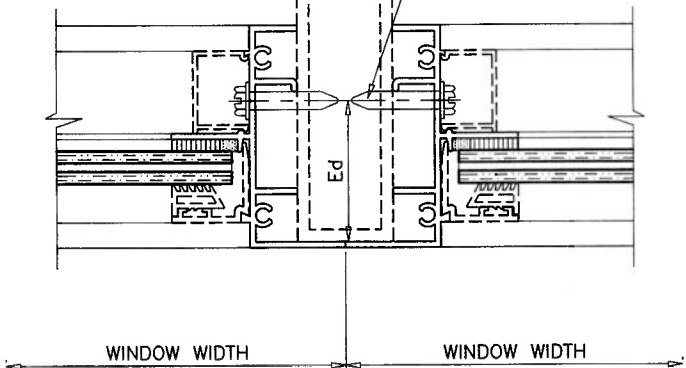


TYPICAL ANCHORS
SEE ELEV. FOR SPACING



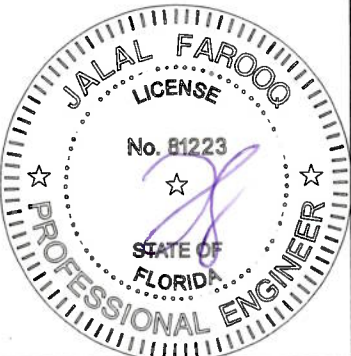
MIAMI-DADE COUNTY
APPR.D MULLION
SEE SEPARATE NOA

TYPICAL ANCHORS
SEE ELEV. FOR SPACING



PRODUCT REVISED
as complying with the Florida
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Miami-Dade Product Control

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scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W03-57
sheet 5 of 7

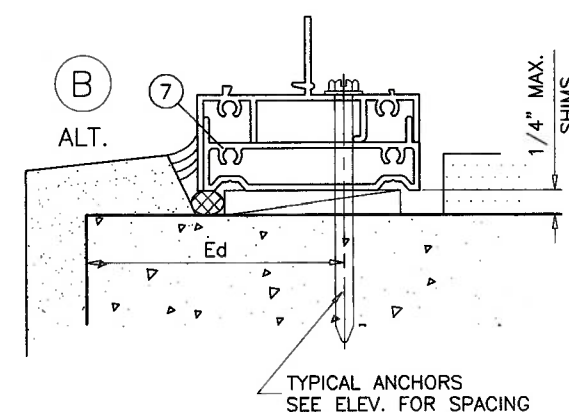
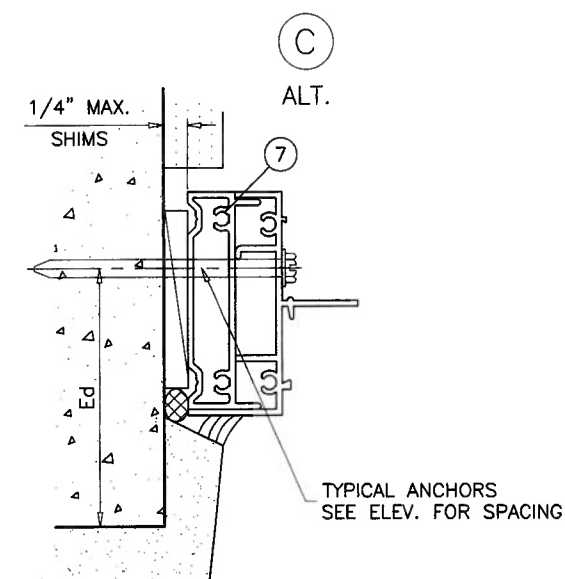
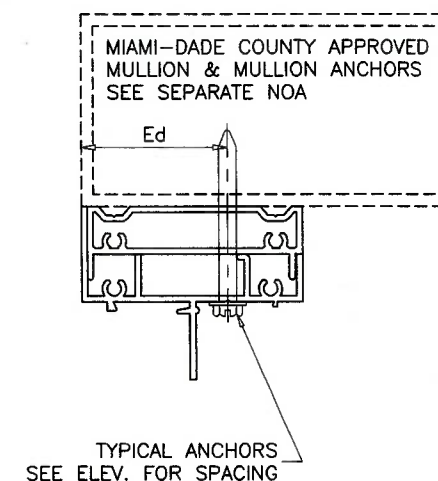
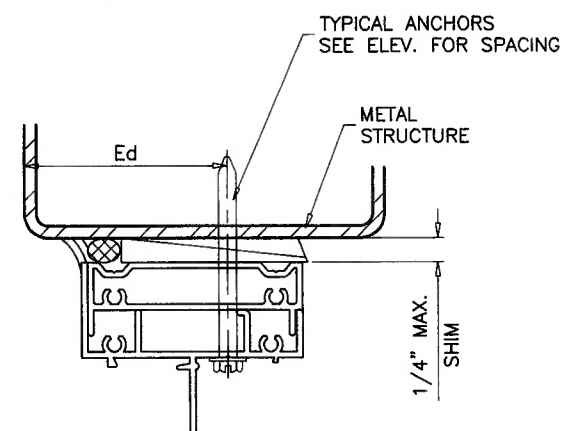
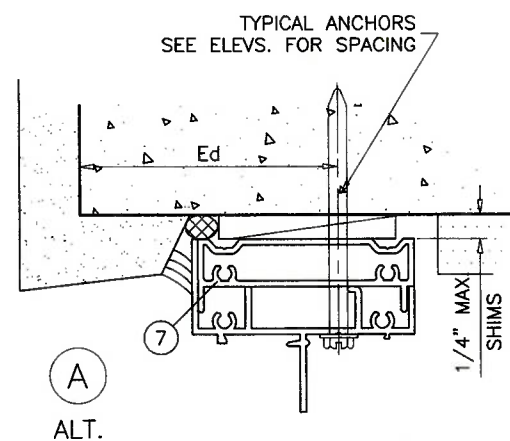
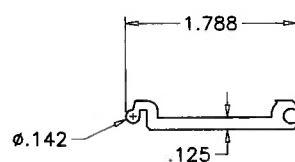
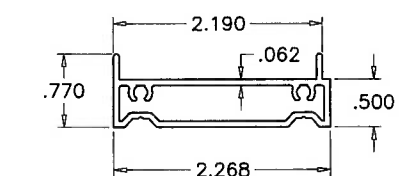
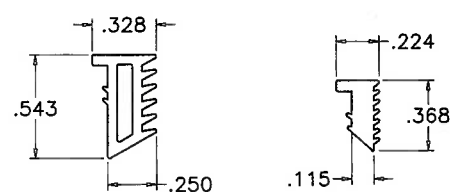
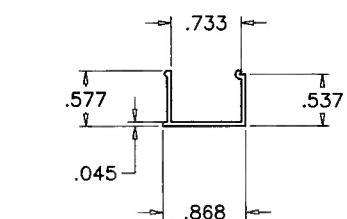
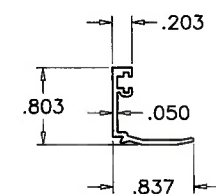
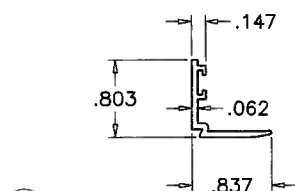
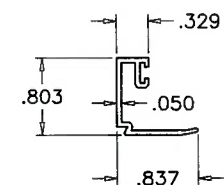
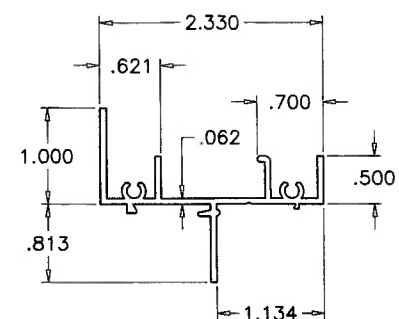
AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173

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

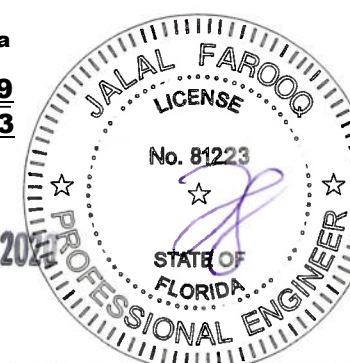
(C.A.N. 3538)

COMP-ANL\W03-57ESW



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.09
Expiration Date: 11/06/2023
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Miami-Dade Product Control



revisions:			no	date	by	description
	F	08.22.14				NO CHANGE THIS SHEET
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date: 07-31-03
scale: 1/2" = 1"
dr. by: TARIQ

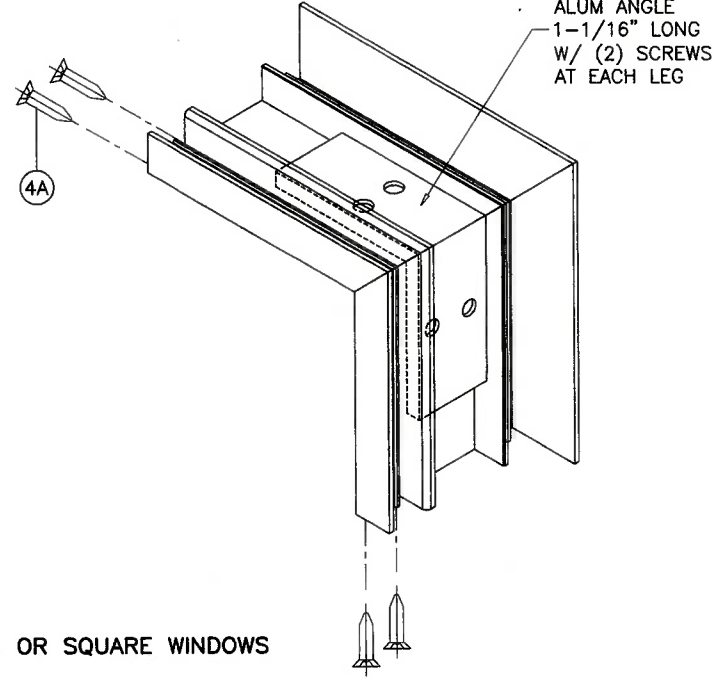
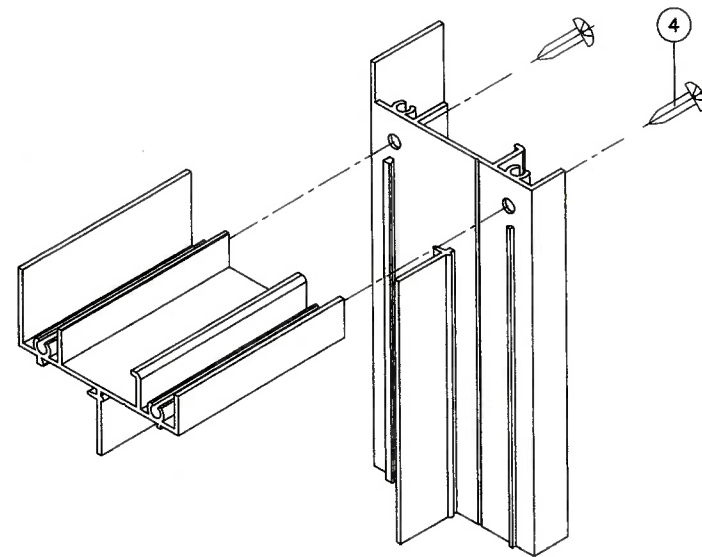
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W03-5
sheet 6 of

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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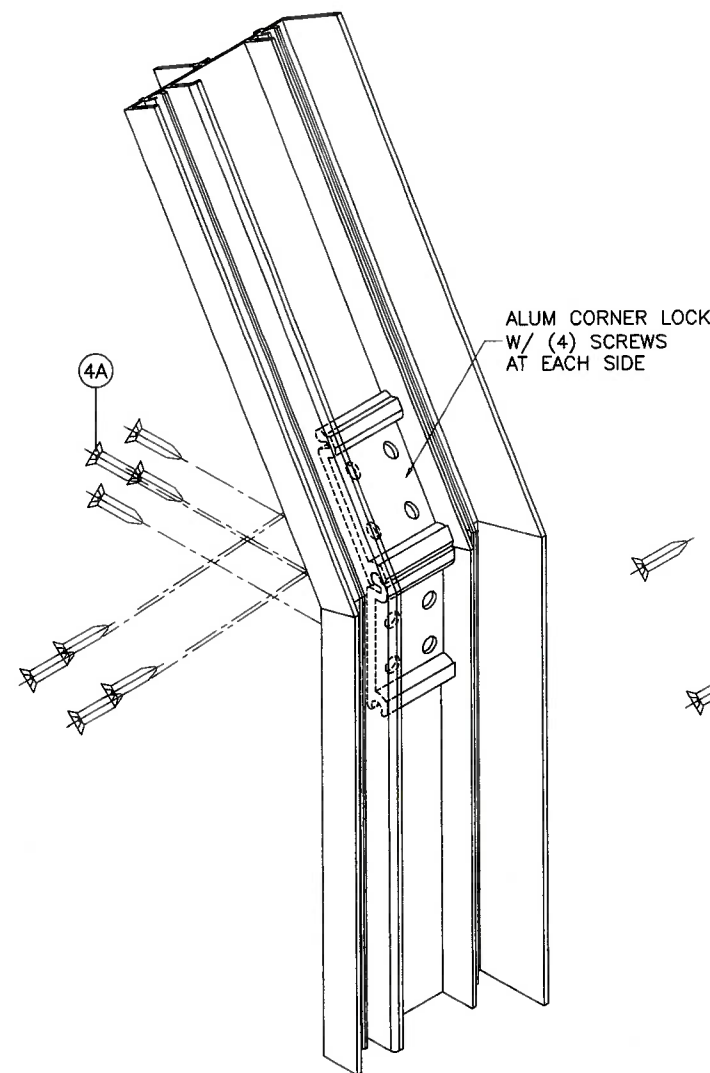
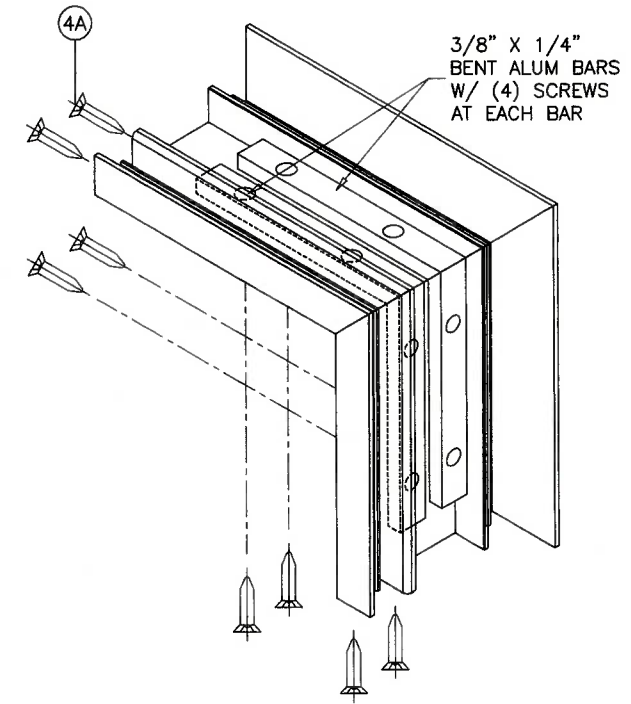
SERIES-1500 ALUMINUM FIXED WINDOW (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

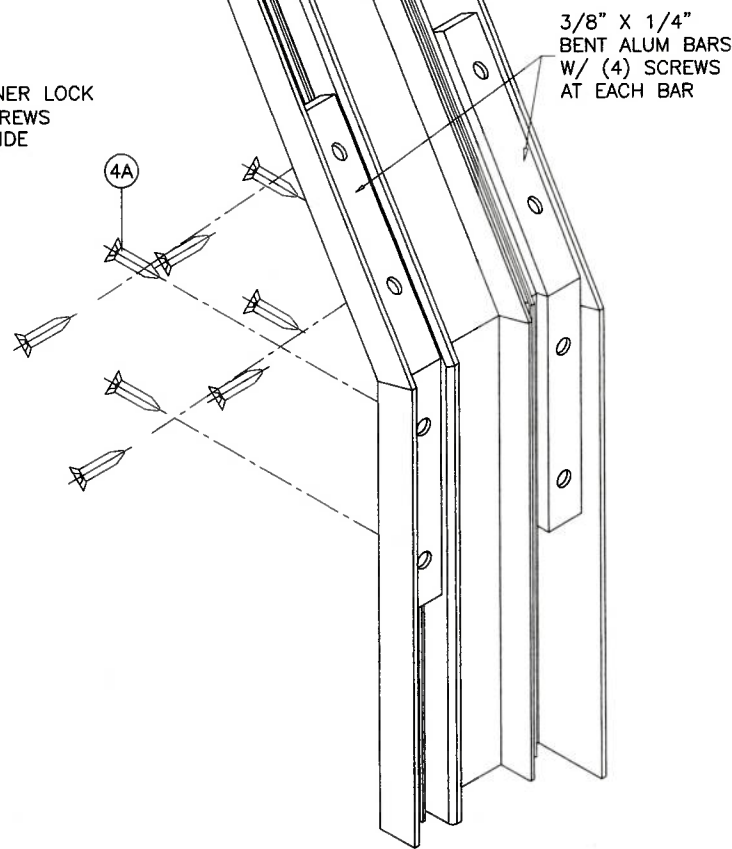
8168 707 (500)



RECT. OR SQUARE WINDOWS



ALUM CORNER LOCK
W/ (4) SCREWS
AT EACH SIDE

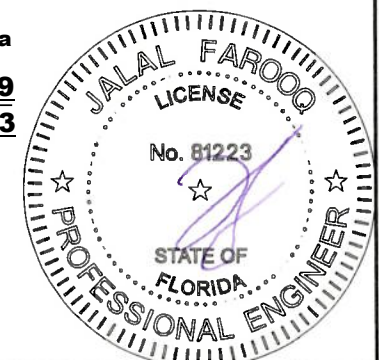


3/8" X 1/4"
BENT ALUM BARS
W/ (4) SCREWS
AT EACH BAR

CIRCULAR OR ANGULAR WINDOWS

TYPICAL CORNER DETAILS

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Miami-Dade Product Control
DEC 01 2020



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drawing no.
W03-57
sheet 7 of 7

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