



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/economy

ECO Windows Systems, LLC
9114 N. W. 106th Street,
Medley, FL 33178

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 650 Aluminum Outswing Doors w/wo Sidelite-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W17-74 Rev D**, titled "Series 650 Alum Outswing Door (L.M.I.)", sheets 1 through 10 of 10, prepared by AL-Farooq Corporation, dated 11/23/16 and last revised on Nov 10, 2020, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Renewal 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

Limitation:

1. See Single or Double Door Design Pressure (DP) ratings in sheet **2**. See Single or Double Door DP ratings with sidelites (w/ Reinforcement) and Standalone Single sidelite rating in sheets **4**. The max door leaf width shall not to exceed 36-7/8".
2. Doors are not rated for water infiltration resistance, unless protected by overhang/canopy complying w/FBC requirements.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 **renews #20-1119.17** 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 **Ishaq I. Chanda, P.E.**



Ishaq I. Chanda

NOA No. 21-1208.01
Expiration Date: March 23, 2027
Approval Date: January 13, 2022
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE

1. Evidence submitted under previous approval

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **W17-74 Rev A**, titled "Series 950 Alum Outswing Door (L.M.I.)", sheets 1 through 10 of 10, prepared by AL-Farooq Corporation, dated 11/23/16 and last revised on MAR 17, 2017, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on:
 - 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Water Resistance Test, per FBC, TAS 202-94 (not conducted)
 - 3) Large Missile Impact Test per FBC, TAS 201-94
 - 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum Outswing French door w/sidelite, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL-9067** dated 12/07/16, signed and sealed by Idalmis Ortega, P. E.

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, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum Outswing French door w/sidelite, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-12-3357, HETI-12-3358, HETI-12-4003 and HETI-12-4027** dated 03/16-26/12, all signed and sealed by Rafael E. Droz-Seda, P. E.

Note: The above referenced test report has been revised by an addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014 (**5th Edition**), prepared by Al Farooq Corporation, dated 01/17/17 and last revised on March 07, 2017, signed, and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc. for the "**Trofosil ® ultra clear, clear & color glass interlayer**", expiring on 07/08/19.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-1208.01
Expiration Date: March 23, 2027
Approval Date: January 13, 2022

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (**5th Edition**) and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/07/17, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. Test report #**16-0841**, dated 07/08/16 approved by RER.
2. Reference NOA(s) #**15-0603.13** /#**12-0402.03**.

2. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **W17-74 Rev C**, titled “Series 950 Alum Outswing Door (L.M.I.)”, sheets 1 through 10 of 10, prepared by AL-Farooq Corporation, dated 11/23/16 and last revised on MAR 20, 2018, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. Eco Windows Reference test reports# HETI-11-3357 (TAS 202) and HETI-11-3357(LMI).

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (**6th Edition**), prepared by Al Farooq Corporation, dated 10/31/17, signed and sealed by Jalal Farooq, P.E.

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**”, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (**6th Edition**) and letter of no financial interest, prepared by Al Farooq Corporation, dated 10/16/17, signed and sealed by Jalal Farooq, P.E.

G. OTHER

1. This NOA revises #17-0118.04., expiring 03/23/22.
2. Test report #**16-0841**, dated 07/08/16 approved by RER.
3. Reference NOA(s) #**15-0603.13** /#**12-0402.03**.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-1208.01
Expiration Date: March 23, 2027
Approval Date: January 13, 2022

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **W17-74 Rev D**, titled “Series 950 Alum Outswing Door (L.M.I.)”, sheets 1 through 10 of 10, prepared by AL-Farooq Corporation, dated 11/23/16 and last revised on Nov 10, 2020, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2020 (**7th Edition**), prepared by Al Farooq Corporation, dated 11/10/20, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with ASTM E 1300-09 & -16.

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**”, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (**7th Edition**) and letter of no financial interest, prepared by Al Farooq Corporation, dated 11/10/20, signed and sealed by Jalal Farooq, P.E.

G. OTHER

1. This NOA **revises #20-1119.07**, expiring 03/23/22.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-1208.01
Expiration Date: March 23, 2027
Approval Date: January 13, 2022

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **W17-74 Rev D**, titled “Series 950 Alum Outswing Door (L.M.I.)”, sheets 1 through 10 of 10, prepared by AL-Farooq Corporation, dated 11/23/16 and last revised on Nov 10, 2020, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS (submitted under file #20-1119.17)

1. Anchor verification calculations and structural analysis, complying with FBC-2020 (7th Edition), prepared by Al Farooq Corporation, dated 11/10/20, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with ASTM E 1300-09 & -16.

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**”, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (7th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 11/30/21, signed and sealed by Jalal Farooq, P.E.

G. OTHER

1. This NOA **revises #20-1119.17**, expiring 03/23/27.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-1208.01
Expiration Date: March 23, 2027
Approval Date: January 13, 2022

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

SERIES 650
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEETS 2.
SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE SHEETS 3 & 4.
LOWER VALUES FROM SIDELITE CAPACITY CHART OR DOOR CAPACITY
WILL APPLY TO ENTIRE SYSTEM.

DOORS NOT APPROVED FOR INSTALLATION WHERE WATER INFILTRATION
RESISTANCE IS REQUIRED.

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.

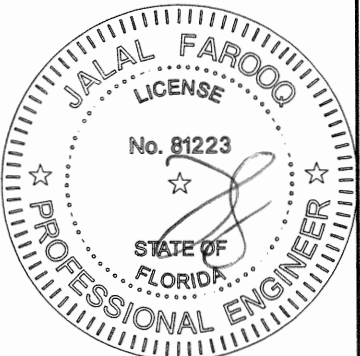
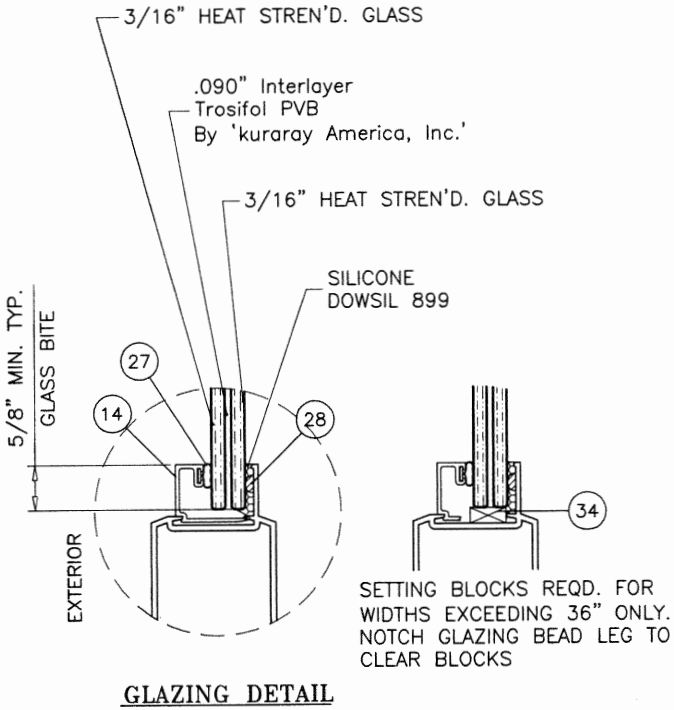
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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)'.

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 21-1208.01
Expiration Date 03/23/2027
By *Ishaq I. Chande*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1119.17
Expiration Date 03/23/2022
By *Ishaq I. Chande*
Miami-Dade Product Control

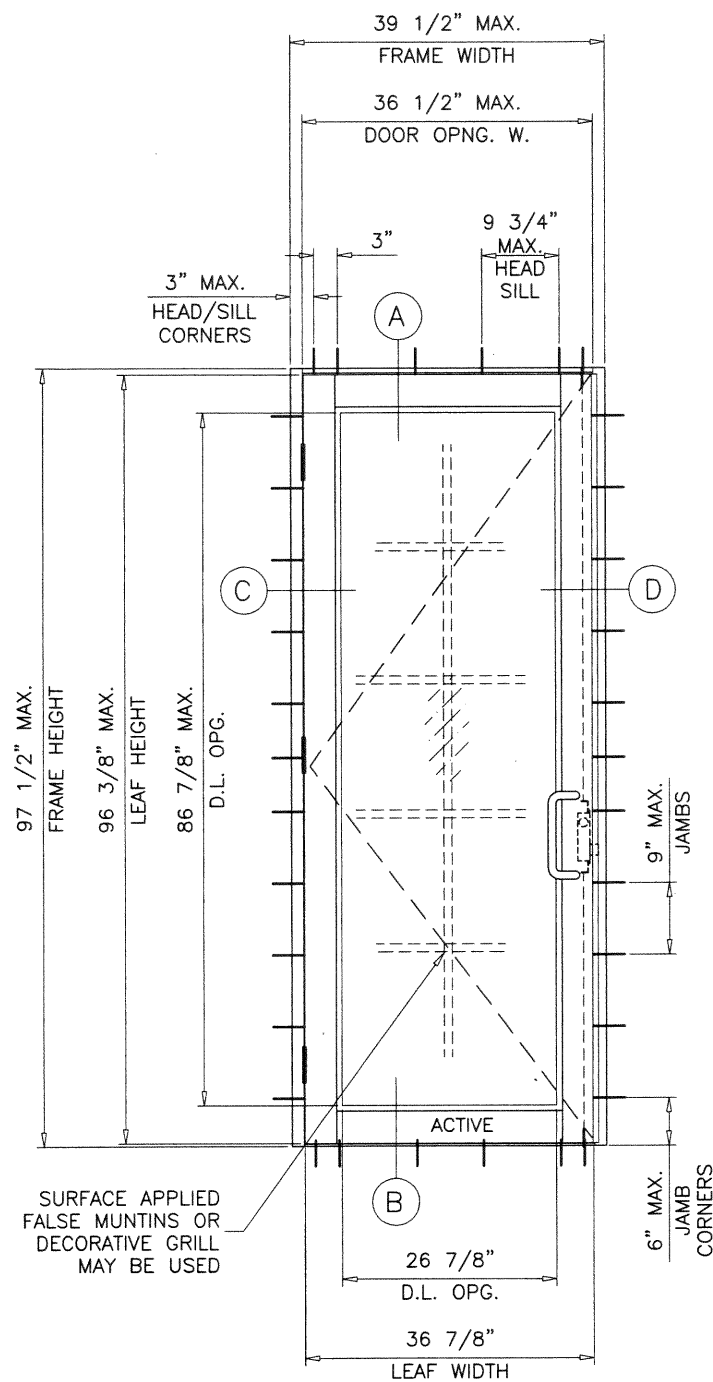


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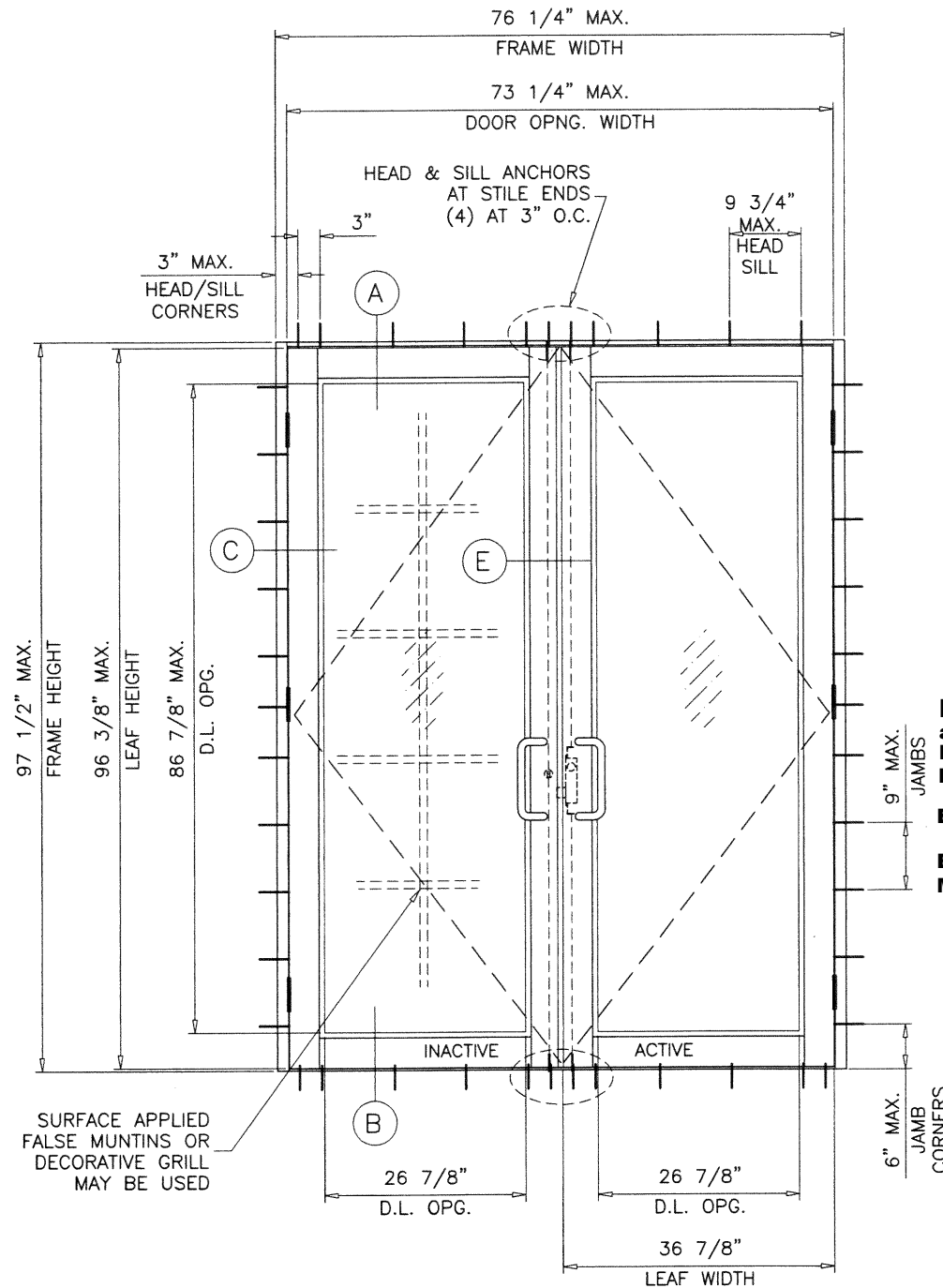
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W16-74ECO

SERIES 650 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL (305) 885-5299 FAX (305) 885-5902

revisions:		description	
no	date	by	
A	03.07.17		REV. PER RER COMMENTS
B	10.24.17		UPDATED TO 2017 FBC
C	03.16.18		JAMB ANCHORS REV.
D	11.05.20		UPDATED TO 2020 FBC
date:	11-23-16	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	W16-74	sheet	1 of 10



TYPICAL ELEVATION
(X)



TYPICAL ELEVATION
(XX)

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH - 12.625" (X DOORS)
= (FRAME WIDTH - 22.50")/2 (XX DOORS)
D.L.O. HEIGHT = FRAME HEIGHT - 10.625"

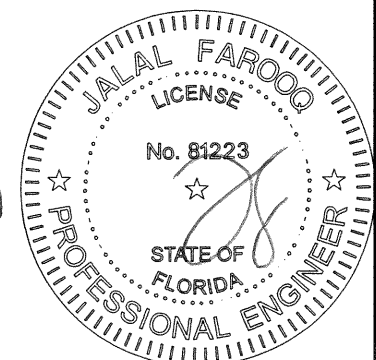
DOORS LOAD CAPACITY - PSF					
DOOR DIMS.				LAMINATED GLASS	
FRAME WIDTH SINGLE (X)	FRAME WIDTH DOUBLE (XX)	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
35-1/2"	72-1/4"	32-7/8"	82"	70.0	75.0
37-1/2"	74-1/4"	34-7/8"		70.0	75.0
39-1/2"	76-1/4"	36-7/8"		70.0	75.0
35-1/2"	72-1/4"	32-7/8"	86"	70.0	75.0
37-1/2"	74-1/4"	34-7/8"		70.0	75.0
39-1/2"	76-1/4"	36-7/8"		70.0	75.0
35-1/2"	72-1/4"	32-7/8"	92"	70.0	75.0
37-1/2"	74-1/4"	34-7/8"		70.0	75.0
39-1/2"	76-1/4"	36-7/8"		70.0	74.4
35-1/2"	72-1/4"	32-7/8"	96"	70.0	75.0
37-1/2"	74-1/4"	34-7/8"		70.0	73.3
39-1/2"	76-1/4"	36-7/8"		70.0	71.3
35-1/2"	72-1/4"	32-7/8"	97-1/2"	70.0	73.6
37-1/2"	74-1/4"	34-7/8"		70.0	71.9
39-1/2"	76-1/4"	36-7/8"		70.0	70.2

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 21-1208.01
Expiration Date 03/23/2027
By Ishag I. Chank
Miami-Dade Product Control

NOTE:
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
NOA-No. 20-1119.17
Expiration Date 03/23/2022
By Ishag I. Chank
Miami-Dade Product Control

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED
BY BUILDING OFFICIAL.



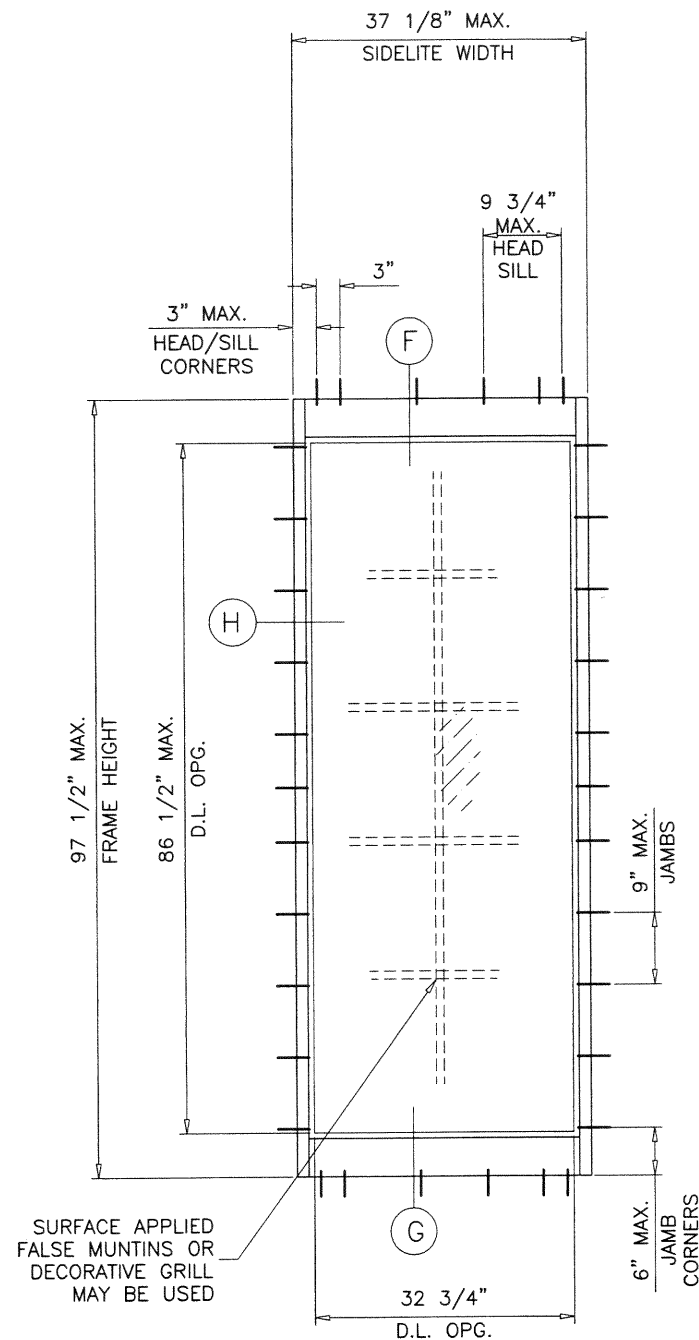
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL W16-74ECO

SERIES 650 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
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revisions:	no	date	description	by
	A	03.07.17	REV. PER RER COMMENTS	
	B	10.24.17	NO CHANGE THIS SHEET	
	C	03.16.18	NO CHANGE THIS SHEET	
	D	11.05.20	UPDATED TO 2020 FBC	

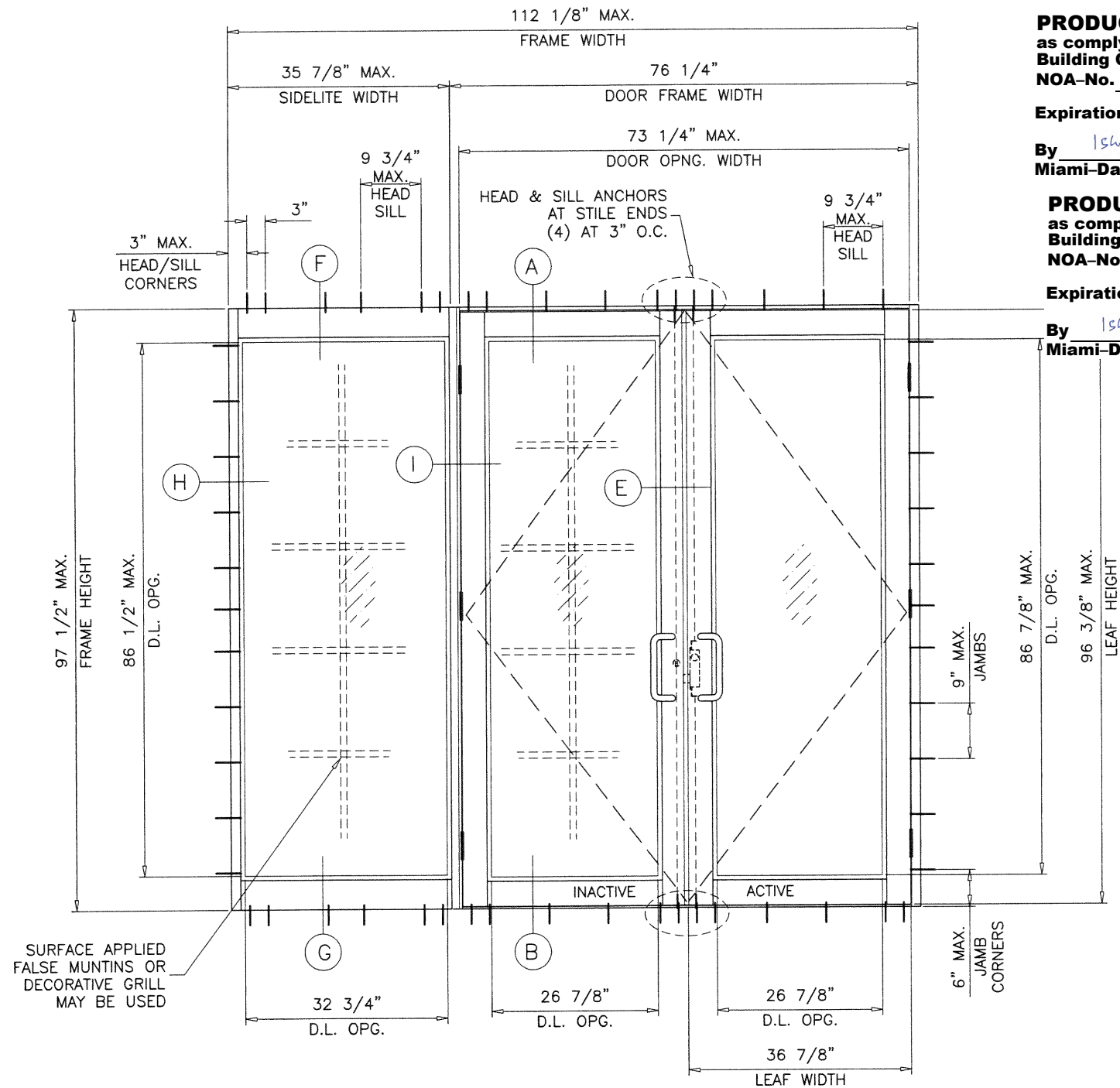
date: 11-23-16	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
drawing no. W16-74	sheet 2 of 10		



TYPICAL ELEVATION
(O)
STAND ALONE SIDELITE

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT - 11.000"
D.L.O. WIDTH (SIDELITE) = FRAME WIDTH - 4.375"



TYPICAL ELEVATION
(O-XX)
TESTED UNIT

NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SIDELITE CAPACITIES SEE SHEET 4.
LOWER VALUES FROM DOOR OR SIDELITE CHART
WILL APPLY TO ENTIRE SYSTEM.

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 21-1208.01

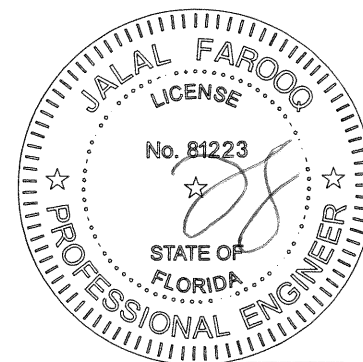
Expiration Date 03/23/2027

By Ishag I. Chank
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
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NOA-No. 20-1119.17

Expiration Date 03/23/2022

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NOV 10 2020

af c
AL-FAROOQ CORPORATION
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revisions:		description
no	date	by
A	03.07.17	REV. PER RER COMMENTS
B	10.24.17	NO CHANGE THIS SHEET
C	03.16.18	NO CHANGE THIS SHEET
D	11.05.20	UPDATED TO 2020 FBC

date: 11-23-16
scale: 1/2" = 1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W16-74
sheet 3 of 10

DESIGN LOAD CAPACITY - PSF STAND ALONE SINGLE SIDELITES			
SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	WITHOUT REINFORCING	
		EXT.(+)	INT.(-)
24	82	70.0	75.0
30		70.0	75.0
36		70.0	75.0
37		70.0	75.0
40		63.3	63.3
42		60.2	60.2
24	86	70.0	75.0
30		70.0	75.0
36		70.0	75.0
37		70.0	75.0
40		63.3	63.3
24	92	70.0	75.0
30		70.0	75.0
36		70.0	72.5
37		70.0	71.5
24	96	70.0	75.0
30		69.4	69.4
36		63.8	63.8
24	97-1/2	70.0	72.7
30		66.3	66.3
36		60.9	60.9

DESIGN LOAD CAPACITY - PSF SIDELITES WITH SINGLE OR DOUBLE LEAF DOORS (SEE NOTE BELOW)					
SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	WITHOUT REINFORCING		WITH REINFORCING	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24	82	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
40		63.3	63.3	63.3	63.3
42		60.2	60.2	60.2	60.2
24	86	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
40		63.3	63.3	63.3	63.3
24	92	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	72.5	70.0	75.0
37		70.0	71.5	70.0	75.0
24	96	70.0	75.0	70.0	75.0
30		69.4	69.4	70.0	75.0
36		63.8	63.8	70.0	75.0
24	97-1/2	70.0	72.7	70.0	75.0
30		66.3	66.3	70.0	75.0
36		60.9	60.9	70.0	75.0

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 21-1208.01

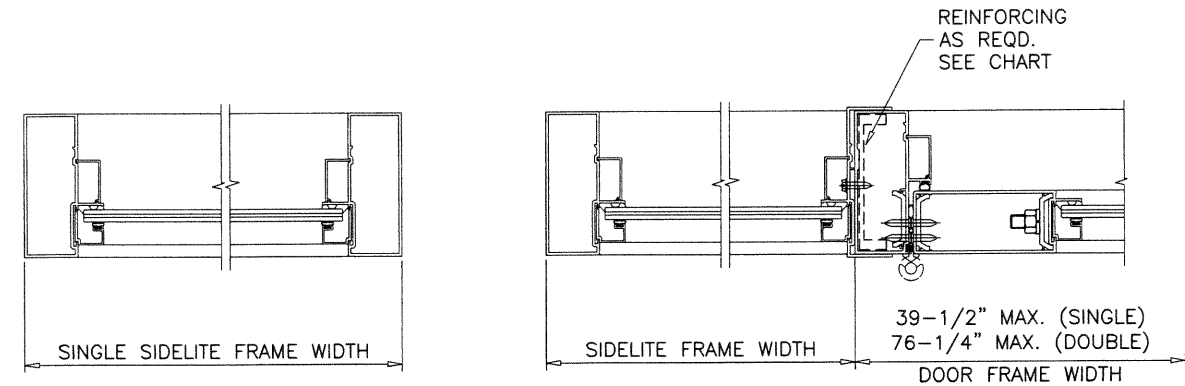
Expiration Date 03/23/2027

By Ishaq I. Chande
Miami-Dade Product Control

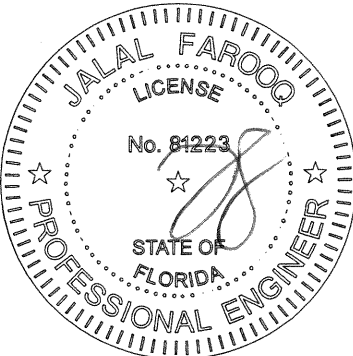
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1119.17

Expiration Date 03/23/2022

By Ishaq I. Chande
Miami-Dade Product Control



NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SIDELITE CAPACITIES SEE CHART ABOVE.
LOWER VALUES FROM DOOR OR SIDELITE CHART
WILL APPLY TO ENTIRE SYSTEM.



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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W16-74ECO

SERIES 650 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

no	date	by	description
A	03.07.17	REV.	PER RER COMMENTS
B	10.24.17	NO	CHANGE THIS SHEET
C	03.16.18	NO	CHANGE THIS SHEET
D	11.05.20	UPDATED	TO 2020 FBC

date: 11-23-16

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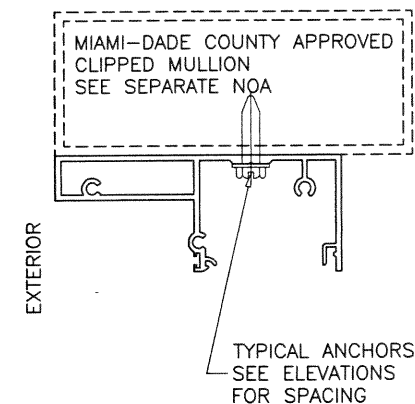
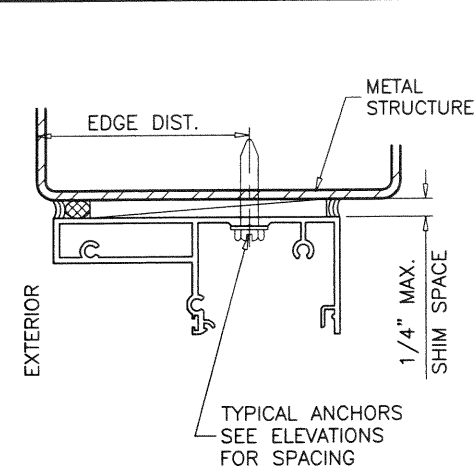
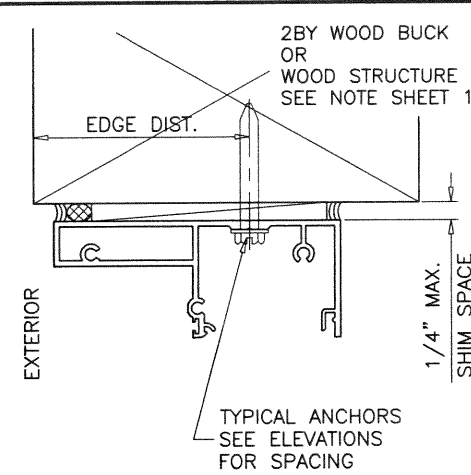
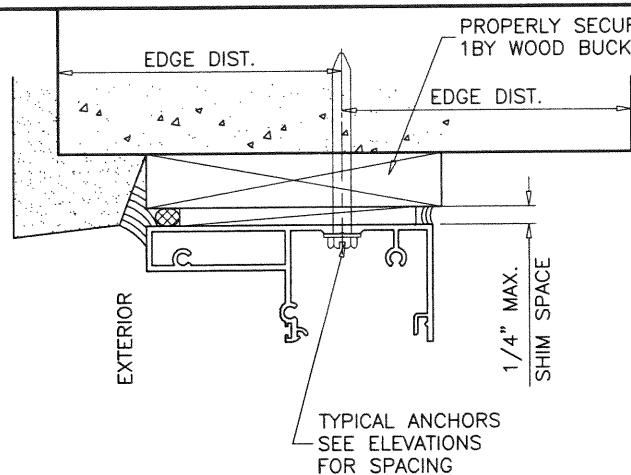
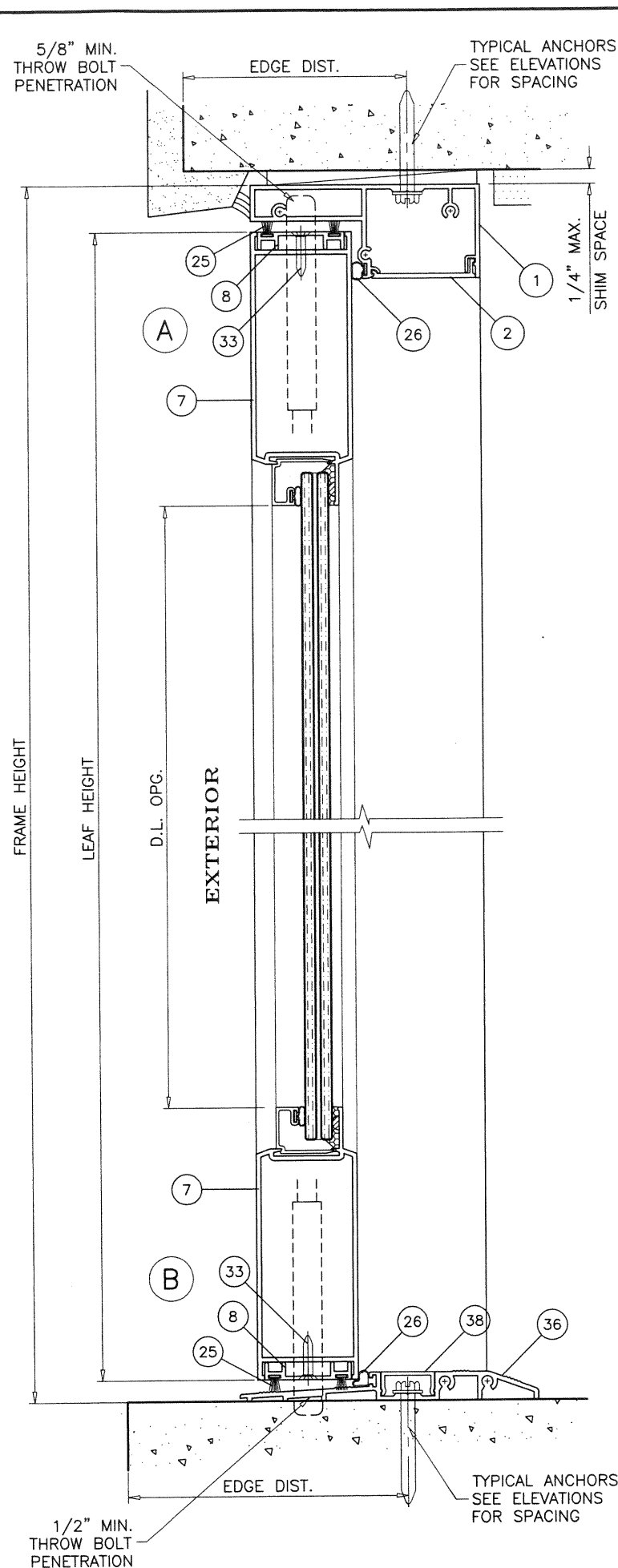
dr. by: TARIQ

chk. by:

drawing no.

W16-74

sheet 4 of 10



NOTE:
ANCHORS MUST GO THRU ANCHOR PADS
AS SHOWN ON FRAME MEMBERS.

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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/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 MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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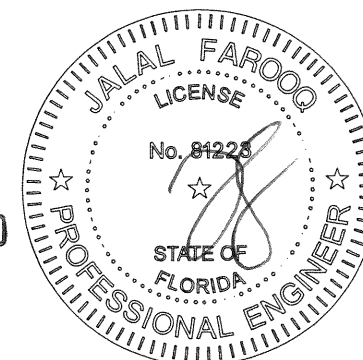
By Ishaq I. Chande
Miami-Dade Product Control

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Expiration Date 03/23/2022

By Ishaq I. Chande
Miami-Dade Product Control

DOOR DETAILS



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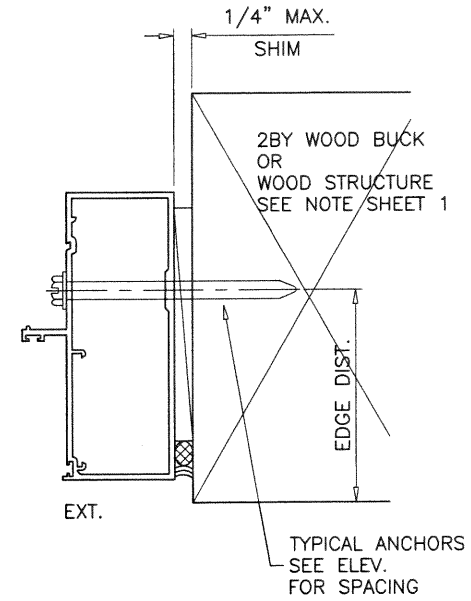
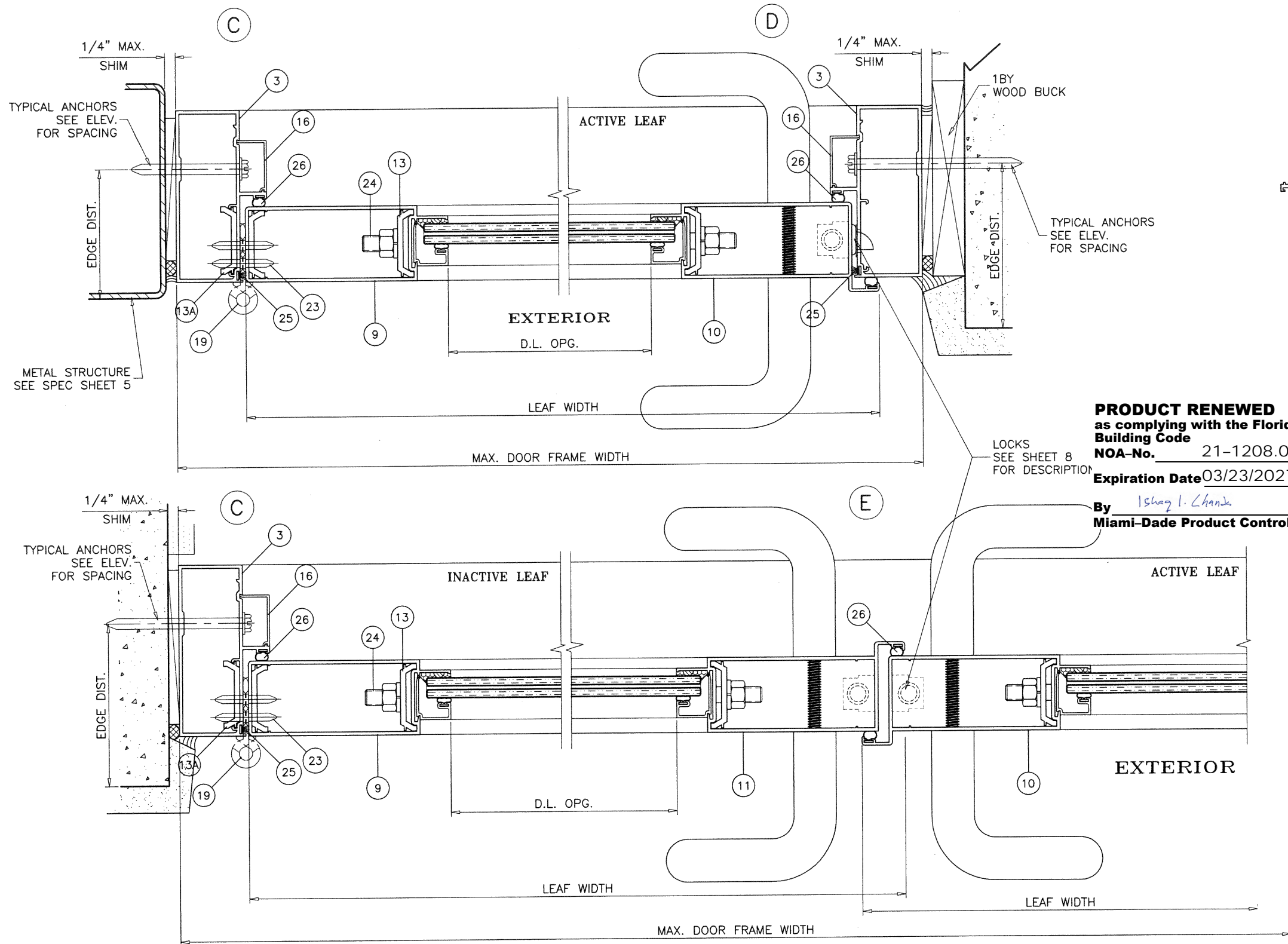
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chk. by:

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W16-74
sheet 5 of 10

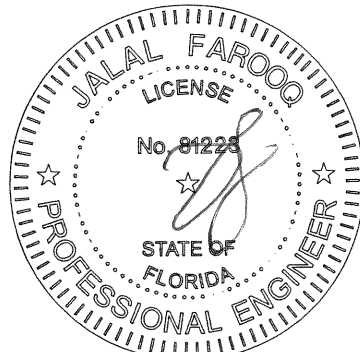


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Miami-Dade Product Control

NOTE:
ANCHORS MUST GO THRU ANCHOR PADS
AS SHOWN ON FRAME MEMBERS.

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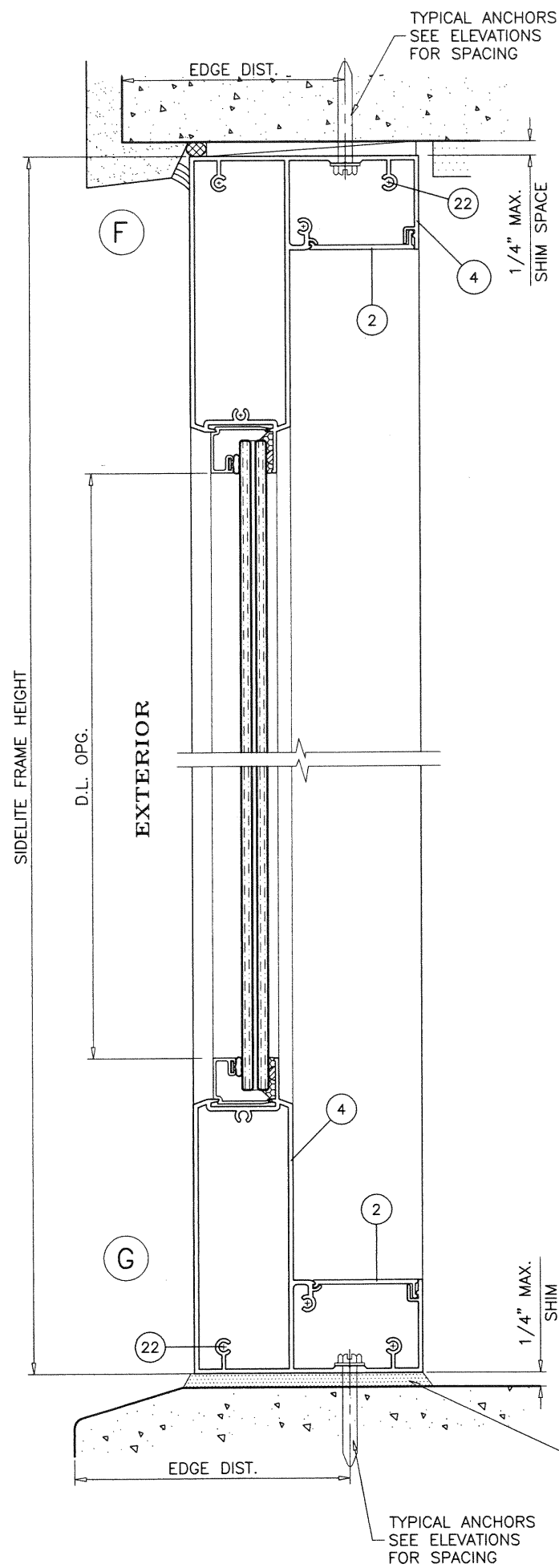
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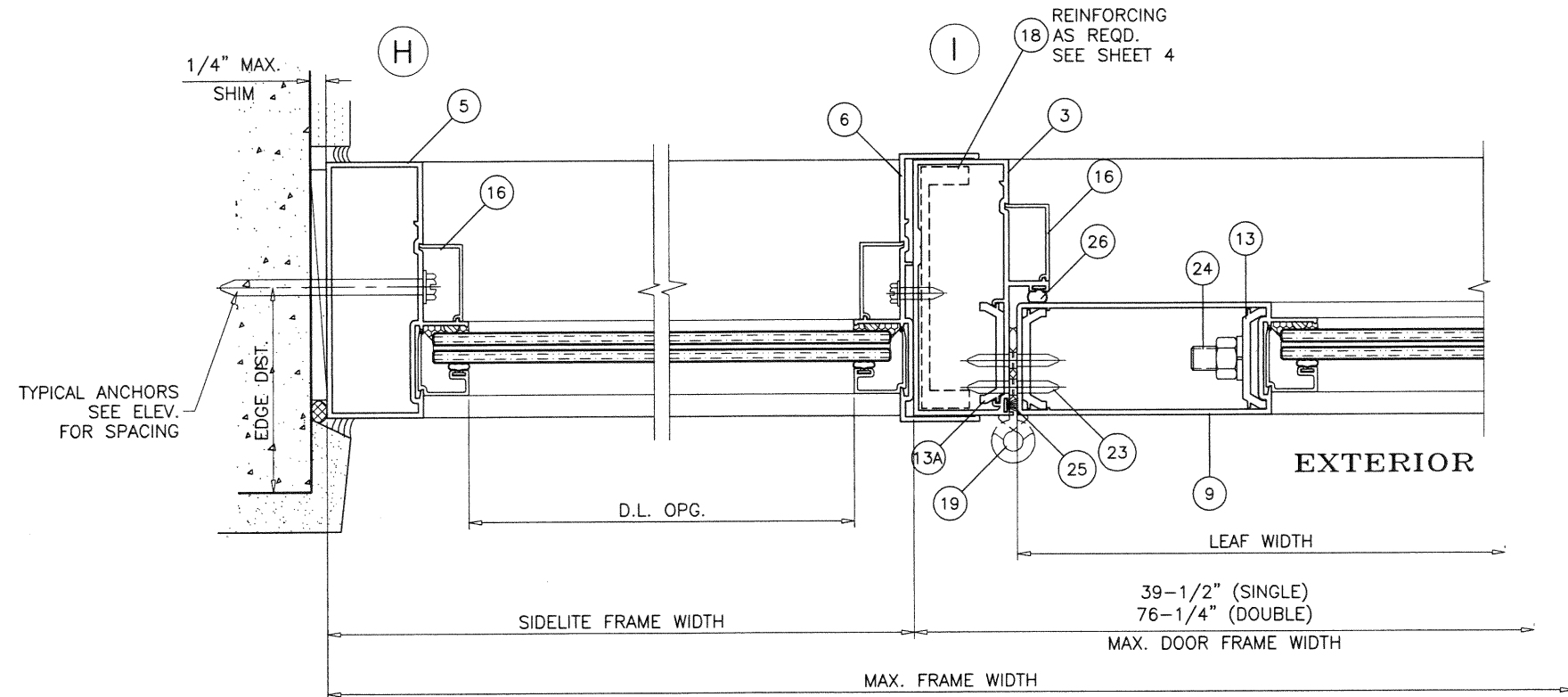
sheet 6 of 10



POURED & HARDENED
HIGH STRENGTH GROUT
f'c = 5000 PSI MIN.
NOT BY 'ECO WINDOWS'
MUST TRANSFER SHEAR
LOADS TO STRUCTURE

LOAD BEARING
(SOLID SHIMS
OPTIONAL TO GROUT)

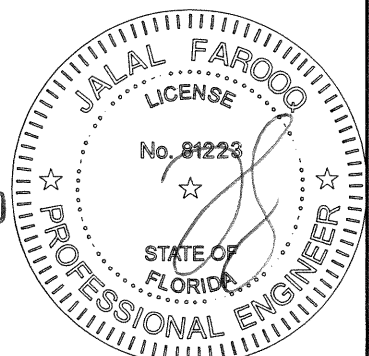
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SIDELITE DETAILS



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drawing no.	W16-74				
sheet	7 of 10				

LOCKS:

ACTIVE LEAF:

3 POINT LOCK SYSTEM BY 'REGENT' AT 40-1/2" FROM BOTTOM WITH CONCEALED VERTICAL RODS
6 PLY BOLT ENGAGING AT LOCK STILE OR FRAME JAMB AND SHOOT BOLTS ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR FASTENED TO ACTIVE LEAF LOCK STILE WITH
(2) #8 X 1/2" FH SMS

INACTIVE LEAF:

2 POINT LOCK SYSTEM SERIES MS1880, MS1881 BY 'ADAMS RITE' AT 42-1/2" FROM BOTTOM
WITH CONCEALED VERTICAL RODS
AND SHOOT BOLTS ENGAGING AT HEAD AND SILL
THUMB TURN ON INTERIOR
FASTENED TO INACTIVE LEAF LOCK STILE WITH
(2) 6-32 X 5/16" PH MACHINE SCREWS

DOOR HANDLES:

SURFACE MOUNT METALLIC HANDLES AT 42-1/2" FROM BOTTOM FASTENED TO ACTIVE AND INACTIVE LEAF LOCK STILES WITH
(2) 1/4-20 X 1-13/16" CONE HEAD MS
(4) 1/4-20 X 5/16" SET SCREWS

HINGES:

7-1/2" LONG ALUMINUM BUTT HINGES BY 'SULLIVAN & ASSOC.' AT 11" FROM TOP AND BOTTOM AND ONE AT MIDSPAN OF LEAF FASTENED TO FRAME WITH
(6) #10 X 3/4" FH SELF DRILLING SCREWS
FASTENED TO LEAF WITH
(5) #10 X 3/4" PH SELF DRILLING SCREWS

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT.

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	AS REQD.	DOOR FRAME HEAD	6063-T6	-
2	E602	AS REQD.	FRAME COVER	6063-T6	-
3	E603	AS REQD.	DOOR FRAME JAMB	6063-T6	-
4	E604	AS REQD.	SIDELITE TOP & BOTTOM FRAME	6063-T6	-
4A	E626	AS REQD.	SIDELITE 9" BOTTOM FRAME	6063-T6	-
5	E605	AS REQD.	SIDELITE FRAME JAMB	6063-T6	-
6	E606	AS REQD.	SIDELITE SLIP ON JAMB	6063-T6	-
7	E607	AS REQD.	LEAF TOP & BOTTOM RAIL	6063-T6	-
7A	E625	AS REQD.	LEAF 9" BOTTOM RAIL	6063-T6	-
8	E608	AS REQD.	LEAF W'STRIP ADAPTER	6063-T6	-
9	E609	AS REQD.	LEAF HINGE STILE	6063-T6	-
10	E610	AS REQD.	LEAF LOCK STILE	6063-T6	-
11	E611	AS REQD.	LEAF ASTRAGAL STILE	6063-T6	-
12	E612	AS REQD.	LEAF ALIGNMENT BRACKET	6063-T6	-
13	E613	AS REQD.	LEAF CLAMP	6063-T6	4-1/4" LONG
13A	E613	2/ HINGE	HINGE BACK-UP PLATE	6063-T6	10-1/2" LONG
14	E109	AS REQD.	GLAZING BEAD	6063-T6	-
16	E616	AS REQD.	SNAP COVER	6063-T6	-
18	-	1	SIDELITE MULLION REINFORCING	6063-T6	-
19	FD-107	3/ LEAF	BUTT HINGES	ALUMINUM	SULLIVAN & ASSOC.
22	#10 X 1-1/2"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	HWH SMS
23	#10 X 3/4"	-	HINGE INSTALLATION FASTENERS	ST. STEEL	FH SMS
24	-	2/ LEAF	3/8" DIA. THREADED ROD	STEEL	-
25	W11323	AS REQD.	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20618-KN-3020	AS REQD.	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
33	#10 X 3/4"	2/ ADAPTER	ADAPTER FASTENERS, AT 5" FROM ENDS	ST. STEEL	FH SELF DRILLING
34	-	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5
36	E804	1	ADA THRESHOLD	6063-T6	-
38	E816	AS REQD.	ADA THRESHOLD COVER	6063-T5	-

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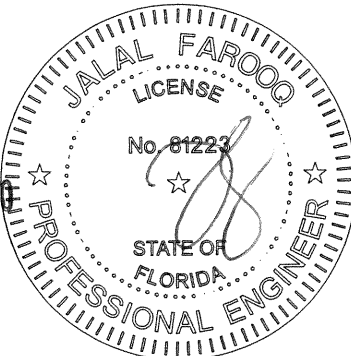
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By Ishag I. Chank
Miami-Dade Product Control

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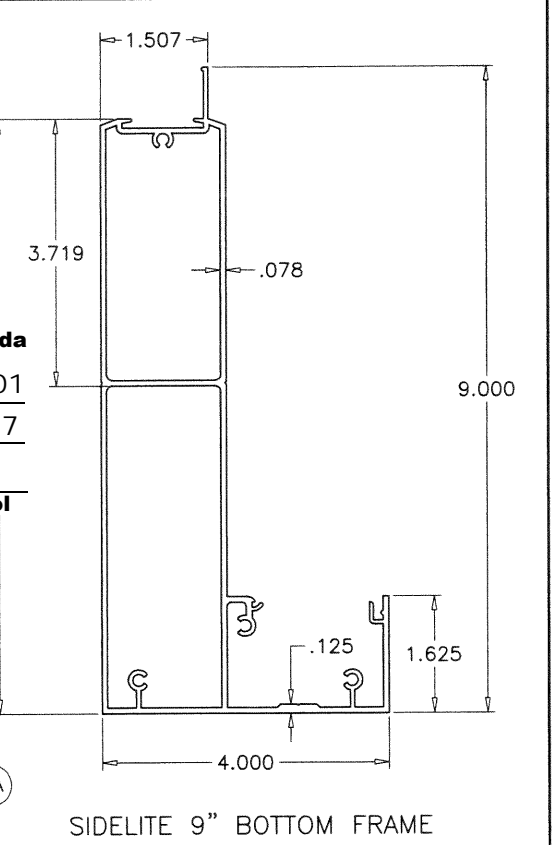
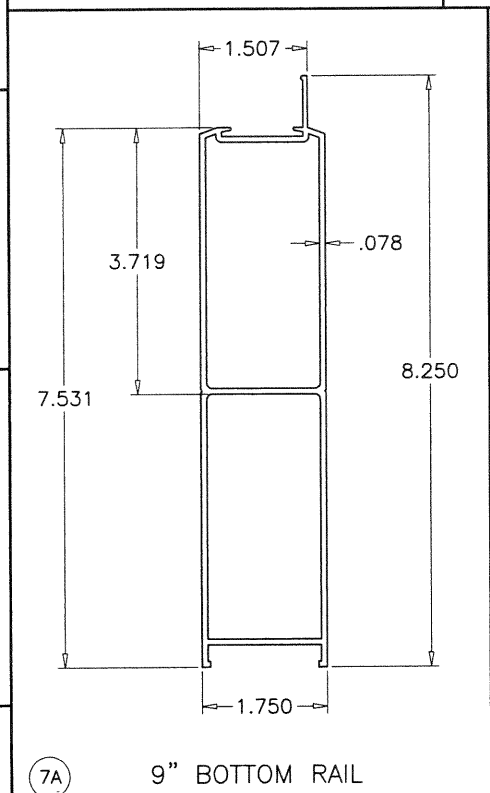
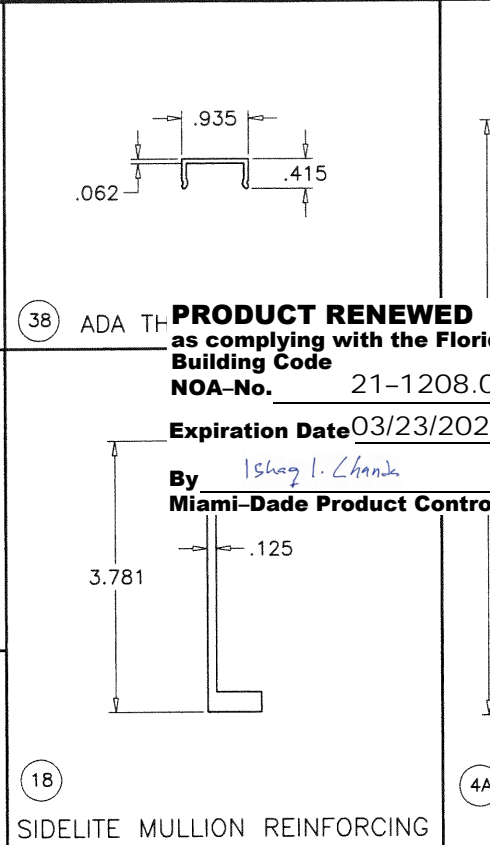
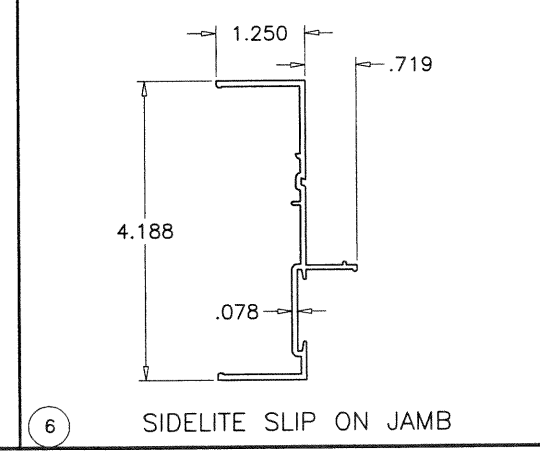
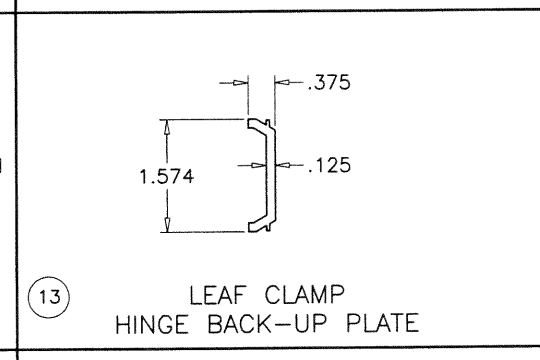
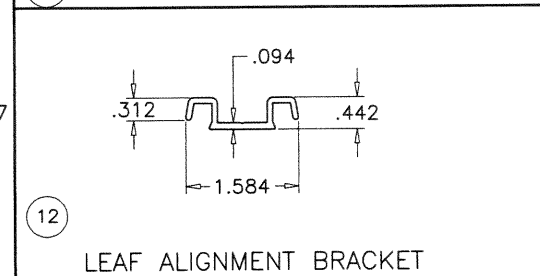
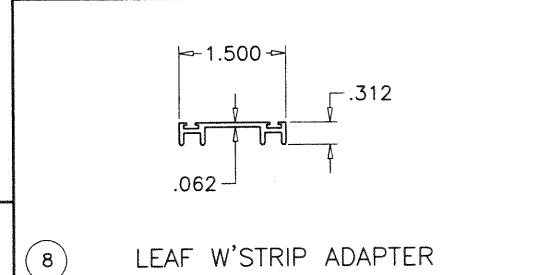
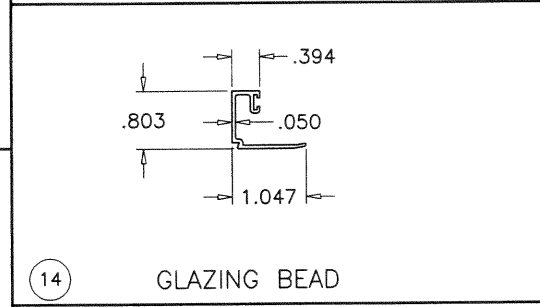
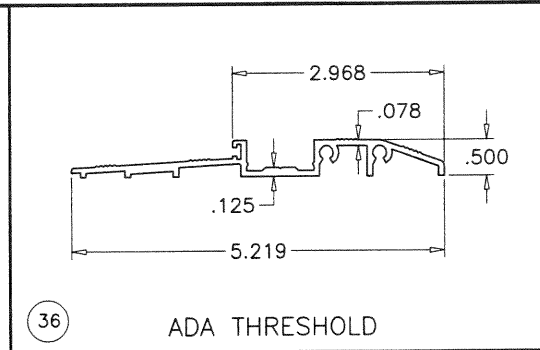
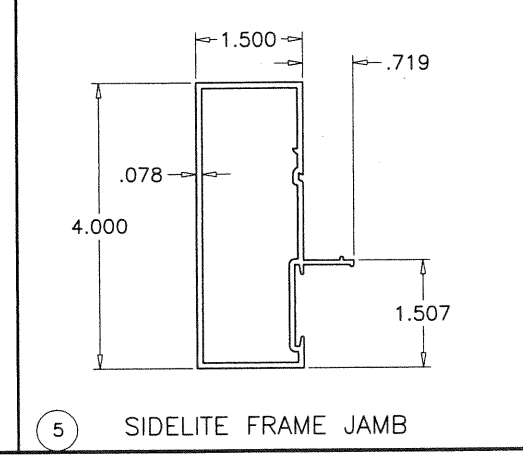
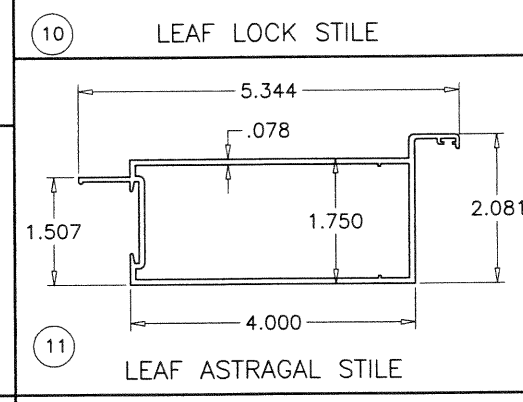
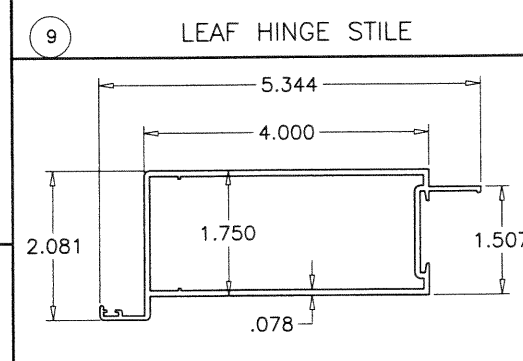
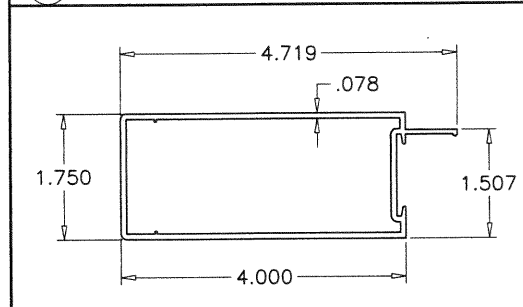
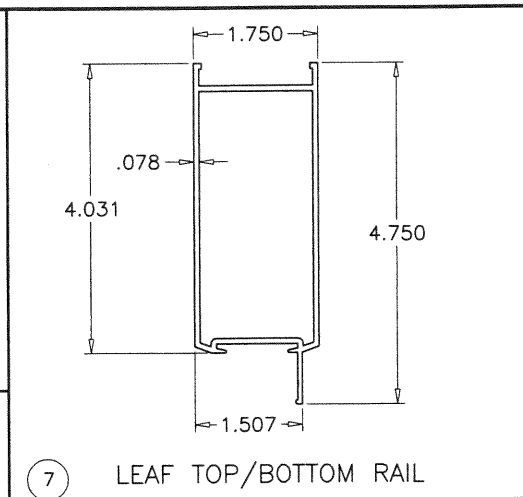
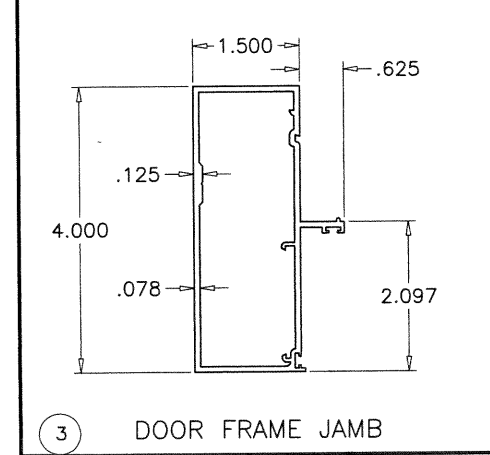
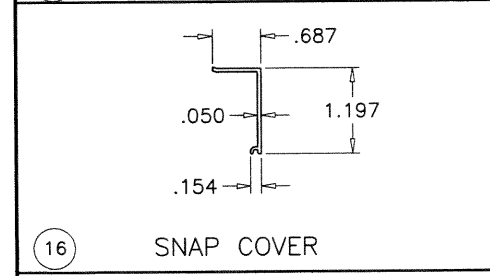
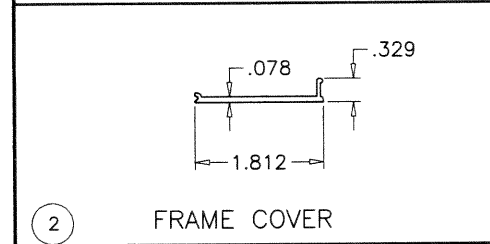
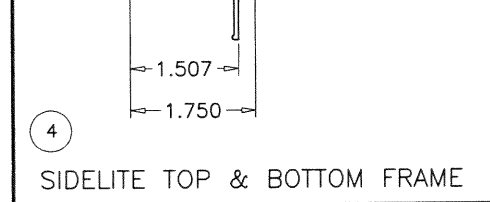
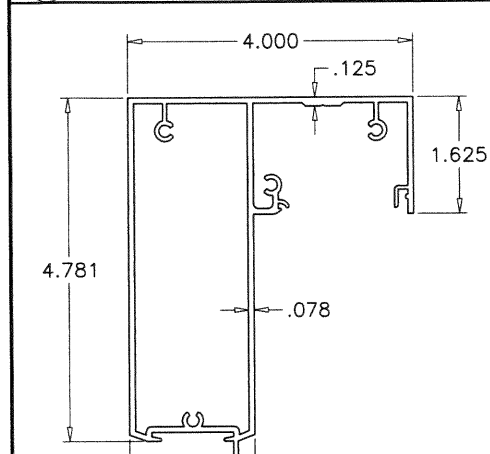
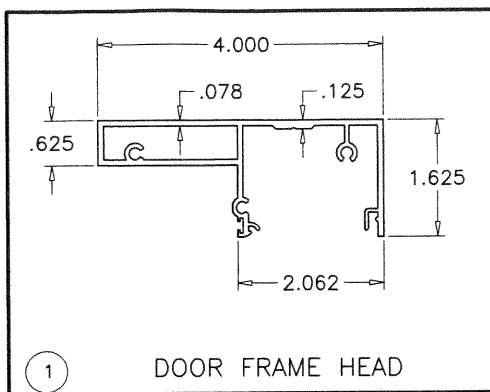
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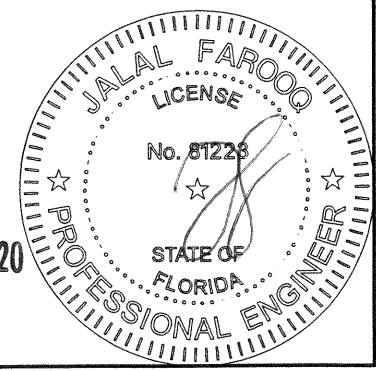
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sheet 8 of 10

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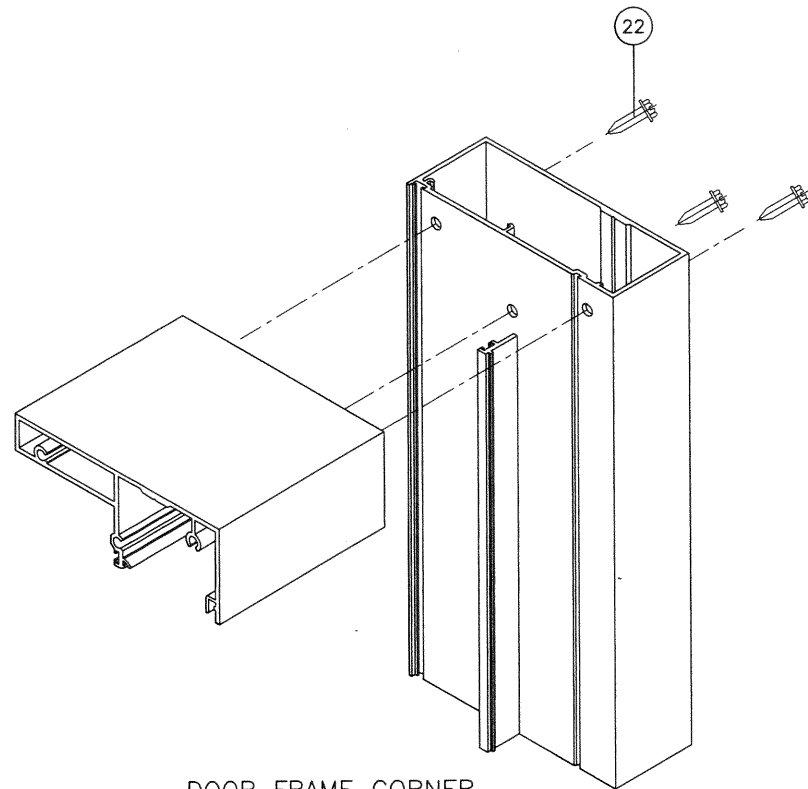


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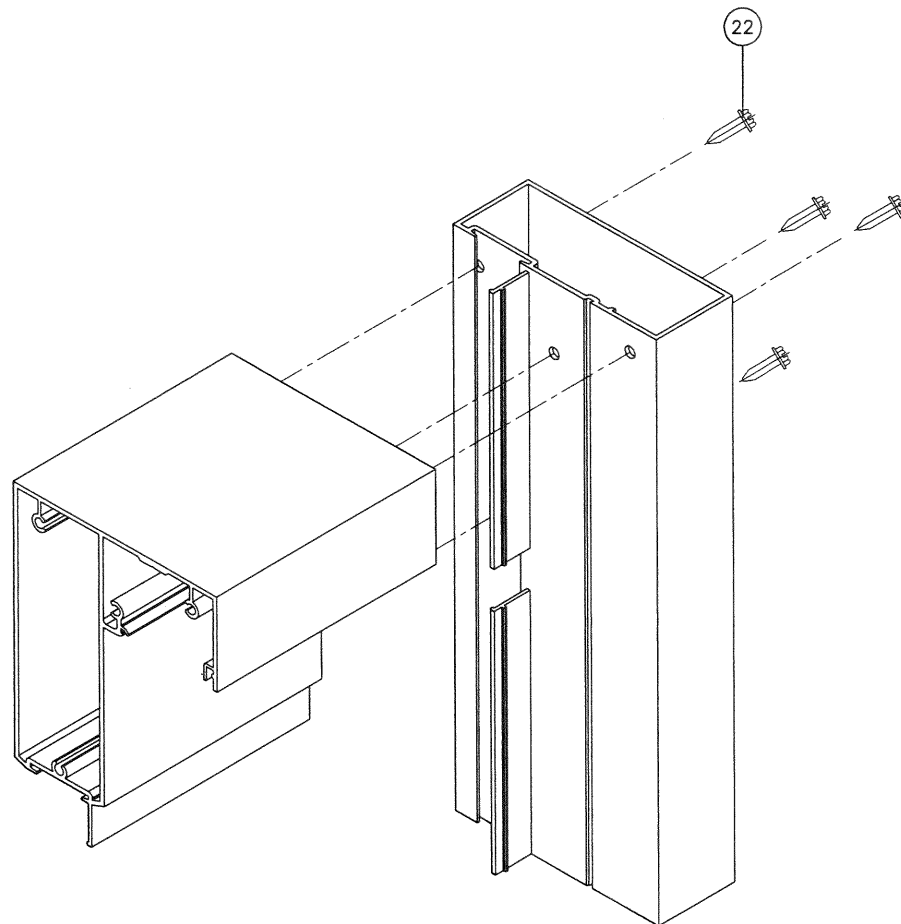
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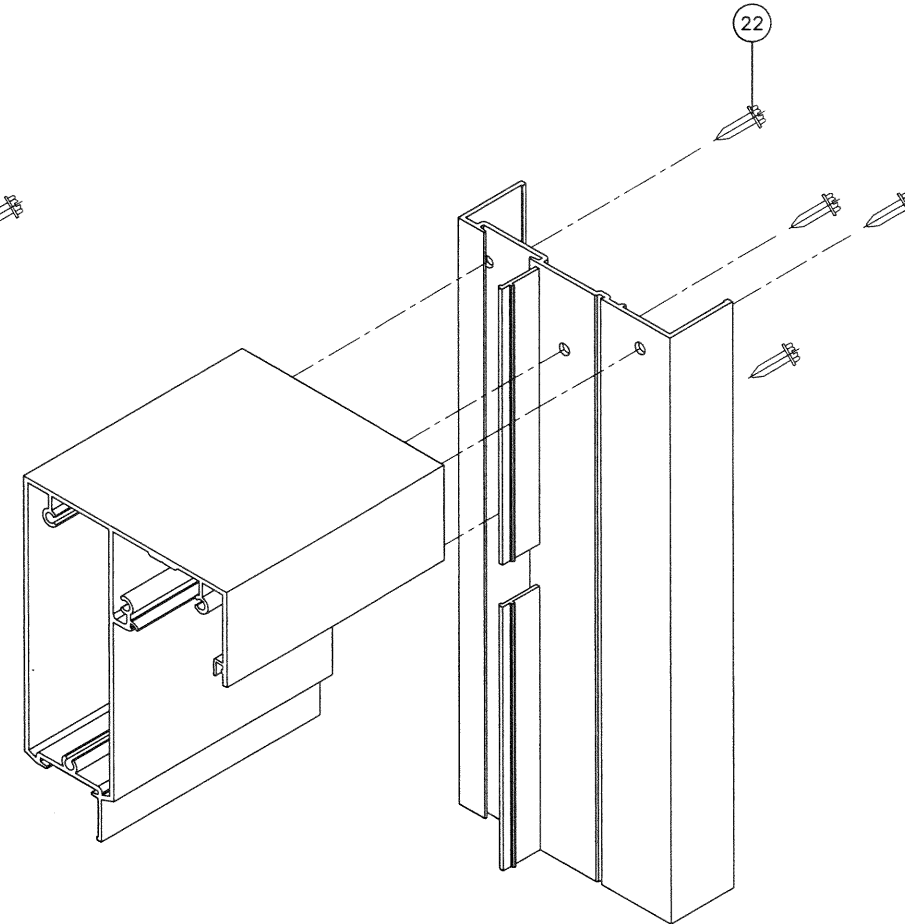
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sheet **9** of 10



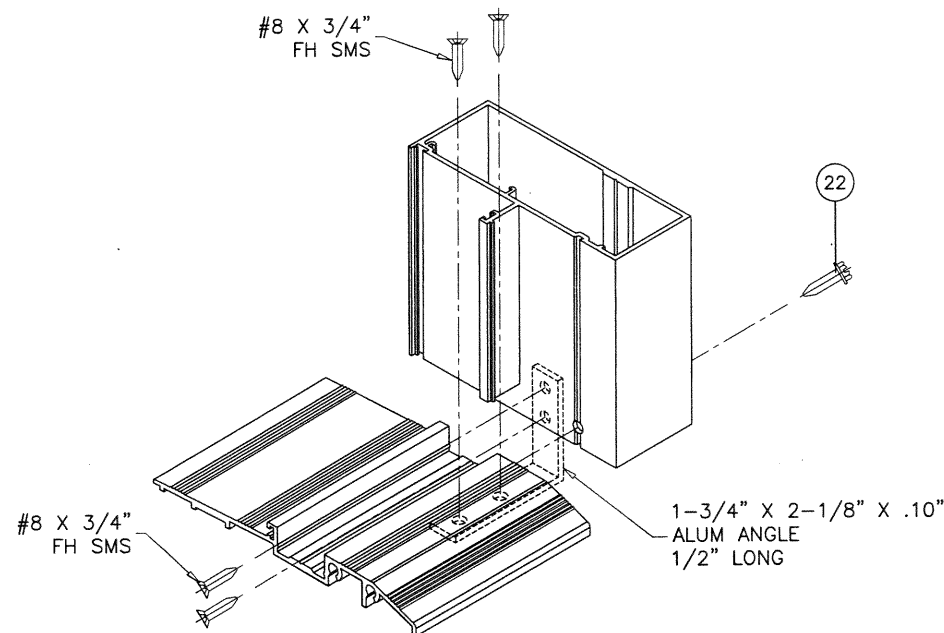
DOOR FRAME CORNER



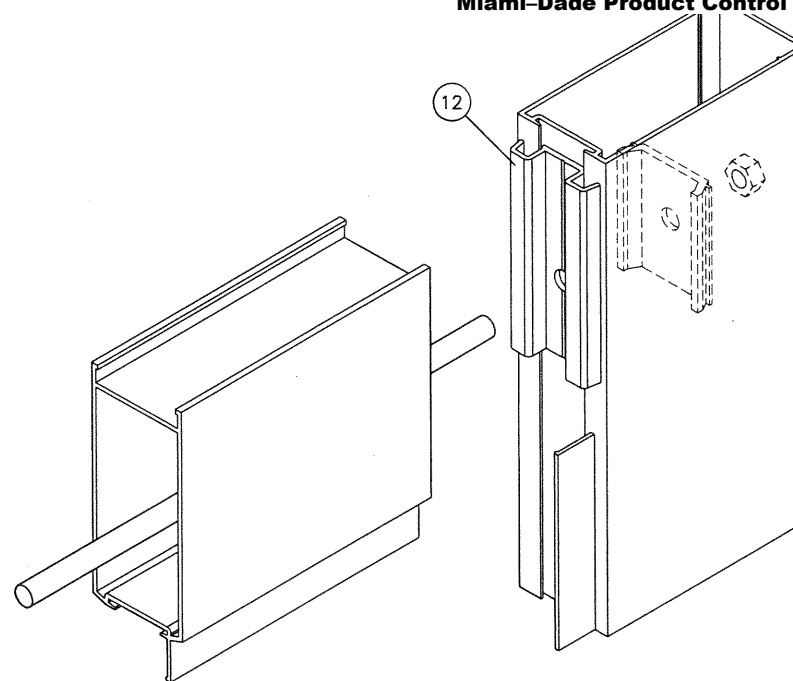
SIDELITE FRAME CORNER



SIDELITE MULLION SLIP ON JAMB CORNER



FRAME SILL CORNER

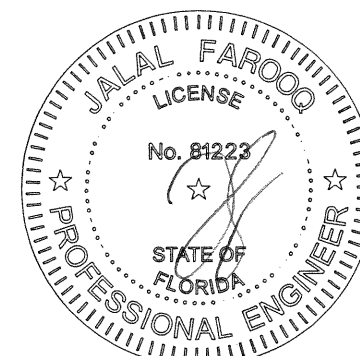


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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL W16-74ECO

SERIES 650 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

no	date	by	description
A	03.07.17		REV. PER PER COMMENTS
B	10.24.17		NO CHANGE THIS SHEET
C	03.16.18		NO CHANGE THIS SHEET
D	11.05.20		UPDATED TO 2020 FBC

date: 11-23-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W16-74
sheet 10 of 10