



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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

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

www.miamidade.gov/economy

ECO Windows Systems, LLC
8502 NW 80th 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 900 Aluminum Bi-fold Door-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W17-103** titled "Series 900 Bi- fold Door (L.M.I.)", sheets 1 through 11 of 11, prepared by Al-Farooq Corporation, dated 11/15/17, with revision "**B**" on 11/05/2020, 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

Limitations:

1. See sheet **6** for max frame size (frame height x frame width) to arrange various out folding qualified configurations. The max panel size **not** to exceed tested 40" wide and 105 1/4" high, nor max 108" tested frame height, in any configuration per charts in sheet 6.
2. Std. Bottom Track (detail **B/5**) is approved for water resistance limited to **+60.0 PSF**. Low Profile Bottom Track (detail **B1/5**) is **not** approved for water resistant unless complies 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 **revises** NOA#17-1218.13 and consists of this page 1 and evidence page E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S. Zhao

03/18/2021

NOA No. 20-1208.06
Expiration Date: November 08, 2023
Approval Date: March 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# 17-1218.13*)
2. Drawing No. Drawing No. **W17-103** titled "Series 900 Bi- fold Door (L.M.I.)", sheets 1 through 11 of 11, prepared by Al-Farooq Corporation, dated 11/15/17, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94 (See applicable bottom track)
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 aluminum out folding Bi-fold doors, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL-16056**, dated 03/22/2017, signed and sealed by Idalmis Ortega, P. E. (*Submitted under NOA# 17-1218.13*)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC -2017 (6th Edition), prepared by Al-Farooq Corporation, dated 08/31/17, signed and sealed by Javad Ahmad, P.E. (*Submitted under NOA# 17-1218.13*)
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. **17-1114.14** issued to Kuraray America, Inc. for "Trosifol: Ultra clear, clear & color PVB glass interlayer" expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance FBC 2017 and letter of no financial interest, prepared by Al-Farooq Corporation, dated 11/15/17, signed and sealed by Javad Ahmad, P.E.
2. Test proposal # **16-1439** dated 12/22/2016 approved by RER.
3. Lab compliance as part of the above referenced test report.

G. OTHER

1. None.



Sifang Zhao, P.E.

Product Control Examiner

NOA No. 20-1208.06

Expiration Date: November 08, 2023

Approval Date: March 18, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W17-103** titled “Series 900 Bi- fold Door (L.M.I.)”, sheets 1 through 11 of 11, prepared by Al-Farooq Corporation, dated 11/15/17 with revision “**B**” on 11/05/2020, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)** and **7th Edition (2020)**, dated 10/29/2020, 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. NOA No. **20-0915.22** 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, complying with **FBC 6th Edition (2017)**, with **FBC 7th Edition (2020)**, and of no financial interest, dated 10/29/2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. NOA No. **17-1218.13** issued to ECO Windows Systems, LLC for their “Series 900 Aluminum Bi-fold Door-L.M.I.” approved on 11/08/2018 and expiring on 11/08/2023.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-1208.06
Expiration Date: November 08, 2023
Approval Date: March 18, 2021

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

SERIES 900
ALUMINUM OUTFOLDING BI-FOLD DOOR

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.

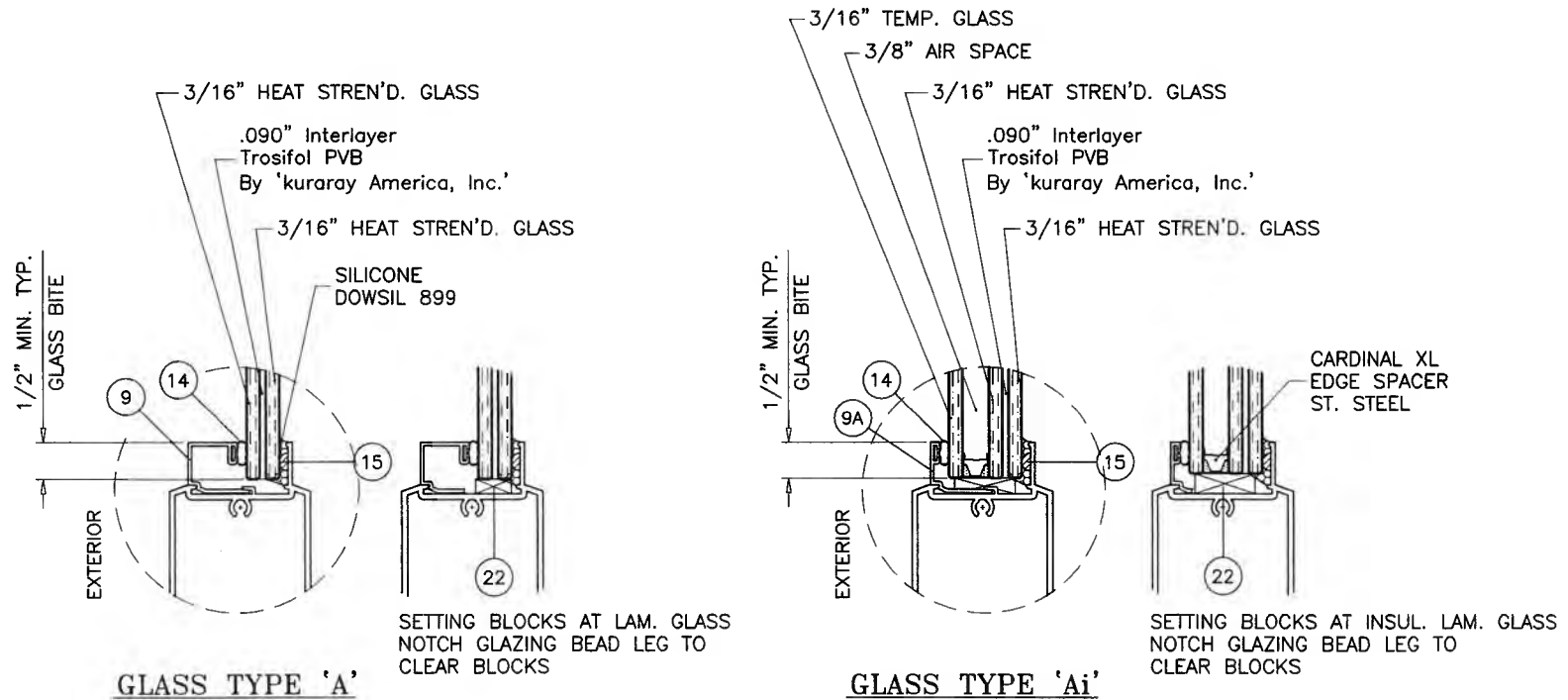
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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)'.

DOORS WITH STANDARD BOTTOM TRACK (E902) APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

DOORS WITH LOW PROFILE BOTTOM TRACK (E903) NOT APPROVED FOR WATER RESISTANCE.



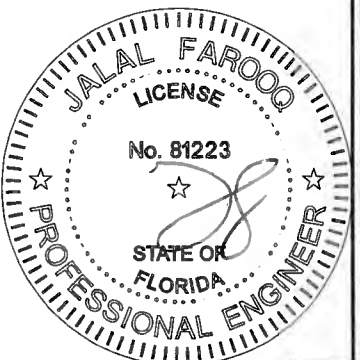
GLAZING OPTIONS

NOTE:
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06

Expiration Date 11/08/2023

By 
Miami-Dade Product Control



DEC 01 2020



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 262-6978
FAX. (305) 262-6978
COMP-ANL W17-103ECO

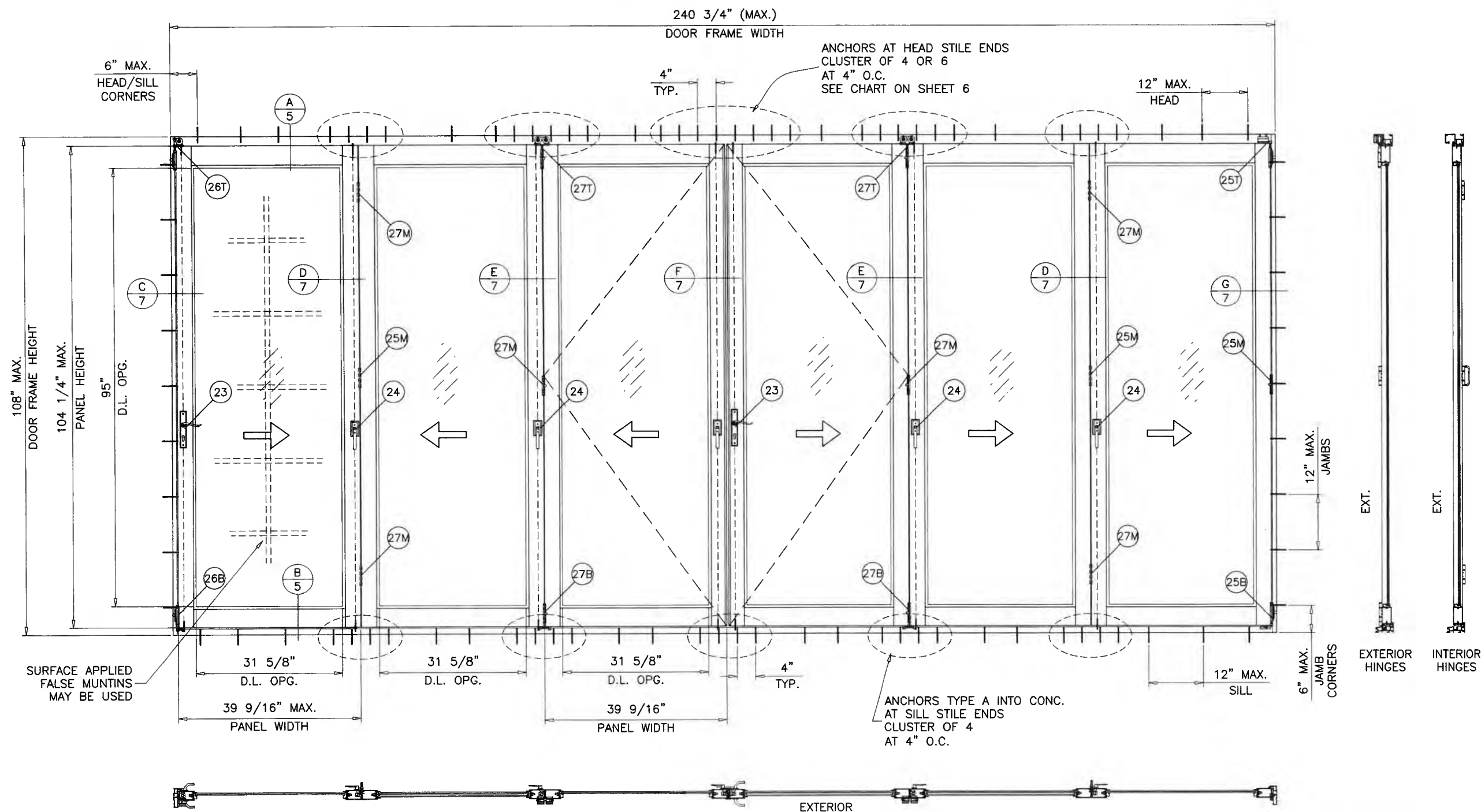
SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)

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	05.17.18		REV. PER PER COMMENTS
	B	11.05.20		UPDATED TO 2020 FBC

date:	11-15-17
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.	W17-103
sheet	1 of 11



TYPICAL ELEVATION (6 PANELS TESTED CONFIGURATION)
BI-FOLD DOOR WITH OUT-SWING LEAFS

PANEL SIZE:

NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.375")/6
PANEL HEIGHT = DOOR FRAME HEIGHT - 3.750"

DAYLITE OPENINGS:

DLO WIDTH = NOM. PANEL WIDTH - 7.875"
DLO HEIGHT = PANEL HEIGHT - 9.250"

SIX PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN.
DOOR MAY HAVE 9 OR 10 PANELS AS SHOWN ON CHARTS ON SHEET 8
USING THE STILE CONFIGURATIONS SHOWN HEREIN.

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

WITH STD. BOTTOM TRACK

MAXIMUM DESIGN LOAD RATING = + 60.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 60.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06
Expiration Date 11/08/2023
By *[Signature]*
Miami-Dade Product Control

DEC 01 2020



SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.

8502 N.W. 80th STREET
MEDLEY, FL. 33166

TEL. (305) 885-5299 FAX (305) 885-5902

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\W17-103ECO

revisions:
no. date by description

A	05.17.18	REV. PER PER COMMENTS
B	11.05.20	UPDATED TO 2020 FBC

date: 11-15-17

scale: 1/2"=1'-0"

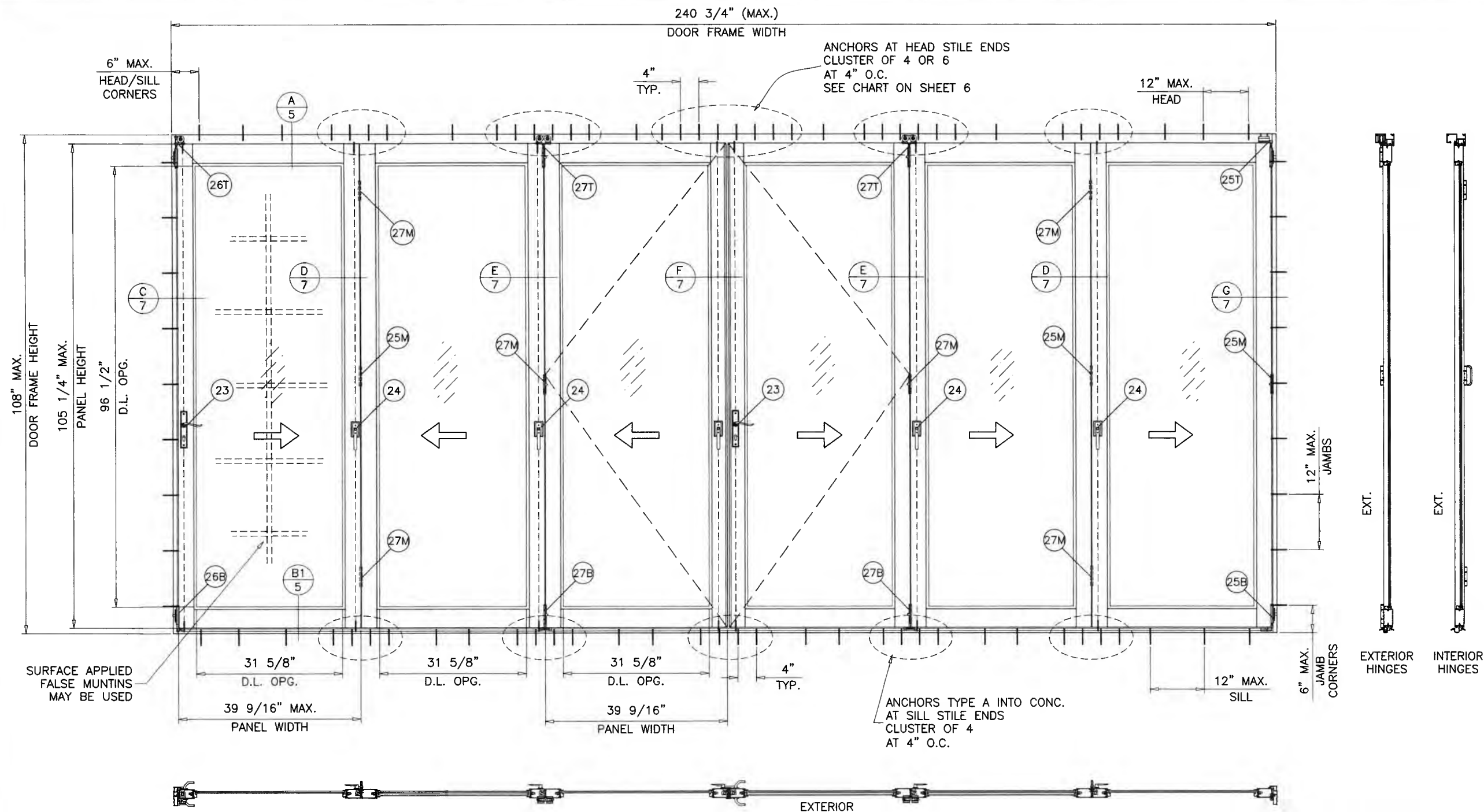
dr. by: TARIQ

chk. by:

drawing no.

W17-103

sheet 2 of 11



TYPICAL ELEVATION (6 PANELS TESTED CONFIGURATION)
BI-FOLD DOOR WITH OUT-SWING LEAFS

PANEL SIZE:

NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.375")/6
PANEL HEIGHT = DOOR FRAME HEIGHT - 2.750"

DAYLITE OPENINGS:

DLO WIDTH = NOM. PANEL WIDTH - 7.875"
DLO HEIGHT = PANEL HEIGHT - 8.750"

SIX PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN.
DOOR MAY HAVE 9 OR 10 PANELS AS SHOWN ON CHARTS ON SHEET 8
USING THE STILE CONFIGURATIONS SHOWN HEREIN.

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

WITH LOW PROFILE BOTTOM TRACK

MAXIMUM DESIGN LOAD RATING = + 60.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 60.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06
Expiration Date 11/08/2023
By *[Signature]*
Miami-Dade Product Control

DEC 01 2020



SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.

8502 N.W. 80th STREET
MEDLEY, FL. 33166

TEL. (305) 885-5299 FAX (305) 885-5902

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

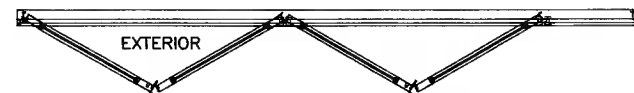
COMP-ANL W17-103ECO

revisions:		date	description
no.	date	description	rev. per FBC
A	05.17.18	1/2" = 1'-0"	REV. PER FBC
B	11.05.20	1/2" = 1'-0"	UPDATED TO 2020 FBC
date:		11-15-17	
scale:		1/2" = 1'-0"	
dr. by:		TARIQ	
chk. by:			
drawing no.		W17-103	
sheet		3 of 11	



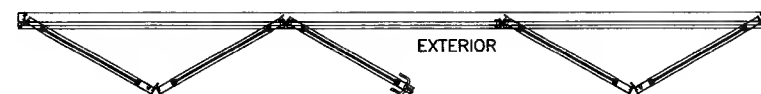
APPROVED CONFIGURATIONS

TWO (2) PANELS



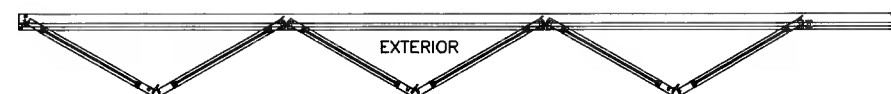
APPROVED CONFIGURATIONS

FOUR (4) PANELS



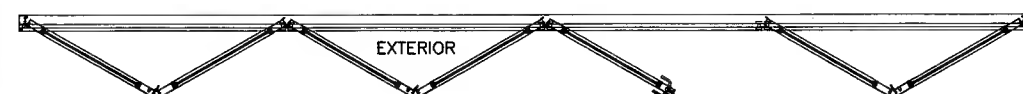
APPROVED CONFIGURATIONS

FIVE (5) PANELS



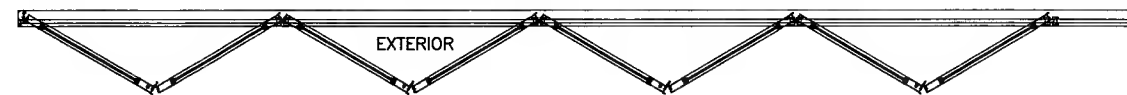
APPROVED CONFIGURATIONS

SIX (6) PANELS



APPROVED CONFIGURATIONS

SEVEN (7) PANELS



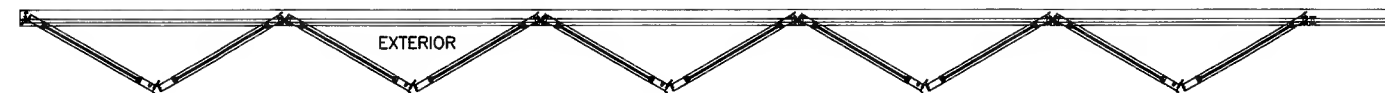
APPROVED CONFIGURATIONS

EIGHT (8) PANELS



APPROVED CONFIGURATIONS

NINE (9) PANELS



APPROVED CONFIGURATIONS

TEN (10) PANELS

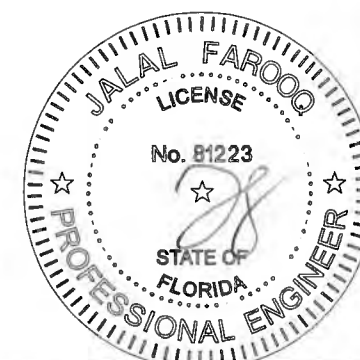
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06


Expiration Date 11/08/2023

By 
Miami-Dade Product Control

MAXIMUM FRAME AREA:
FRAME WIDTH X FRAME HEIGHT = 270 SQ. FT.
ADJUST BY REDUCING PANEL WIDTH OR HEIGHT IF REQUIRED.

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\W17-103ECO

SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)

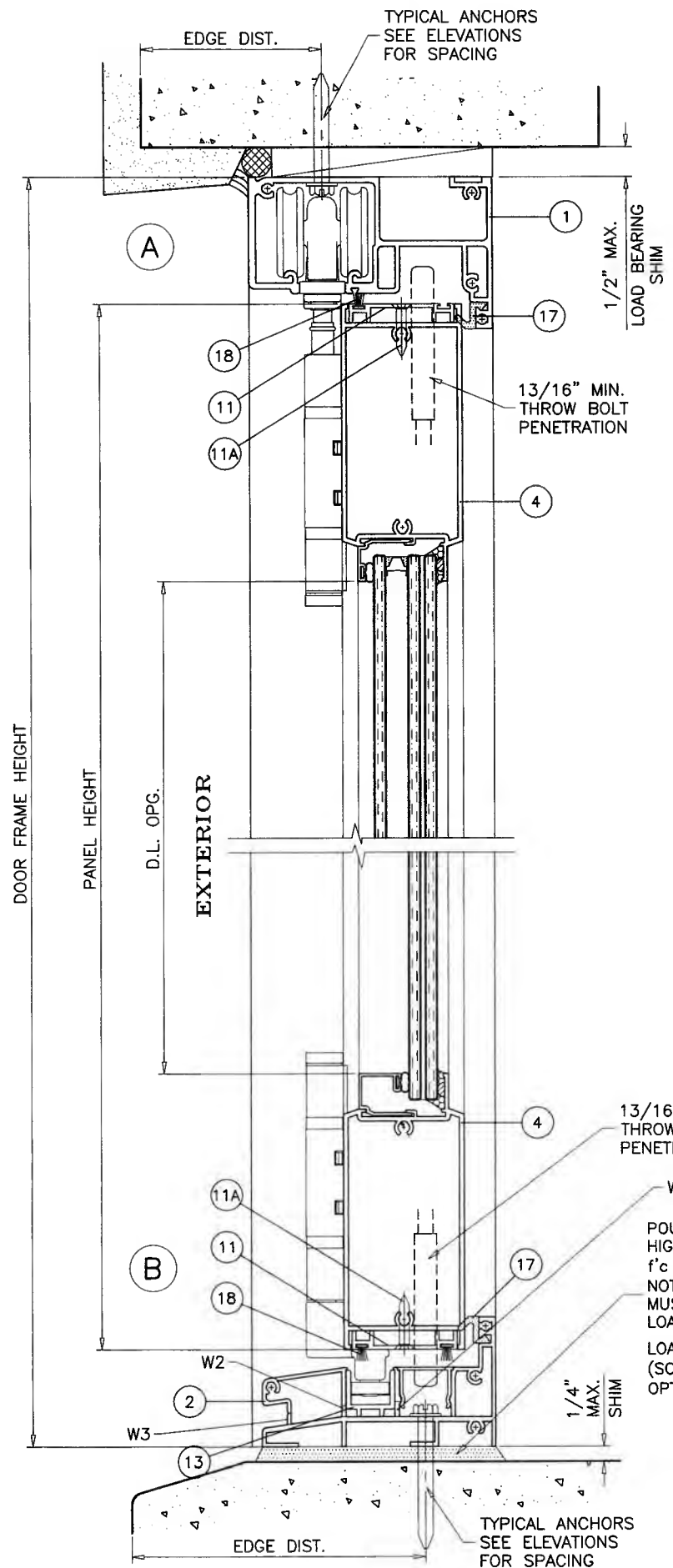
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:		date:		11-15-17	
no	date	by	description	no	date
A	05.17.18		NO CHANGE THIS SHEET		
B	11.05.20		UPDATED TO 2020 FBC		

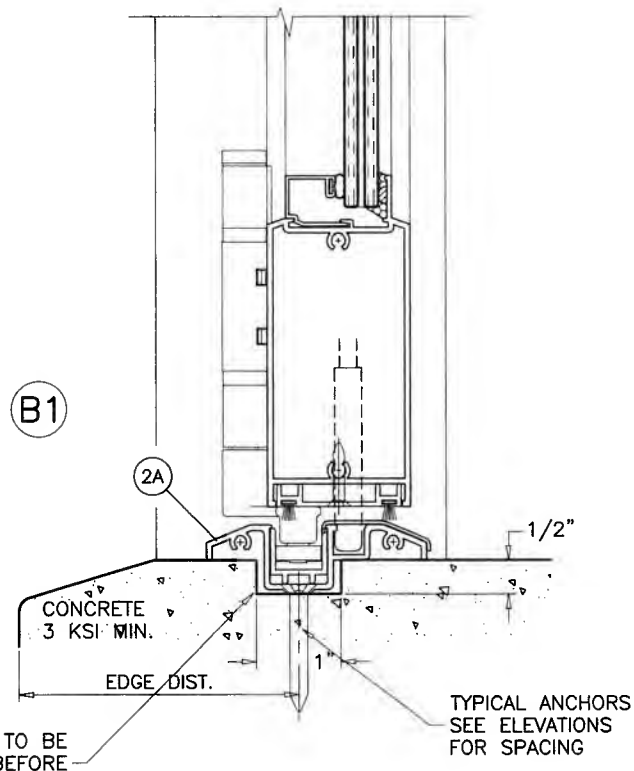
scale:	1" = 1'
dr. by:	TARIQ
chk. by:	

drawing no.
W17-103

sheet 4 of 11



STD. BOTTOM TRACK
APPR'D FOR WATER RESISTANCE



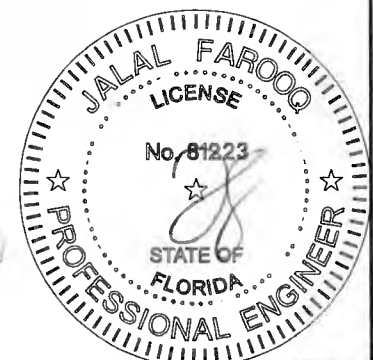
LOW PROFILE BOTTOM TRACK
NOT APPR'D FOR WATER RESISTANCE

WEEPHOLES:

- W1 = 1/4" X 1-1/2" LONG WEEP SLOTS
AT 5" FROM EACH END AND 42" O.C.
- W2 = 3/16" DIA. WEEP HOLES
AT 6", 6-1/2" AND 7" FROM EACH END
- W3 = (6) 3/16" DIA. WEEP HOLES
AT 21", 21-1/2" & 22" FROM CENTER OF
THRESHOLD IN EACH DIRECTION.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06
Expiration Date 11/08/2023
By *[Signature]*
Miami-Dade Product Control

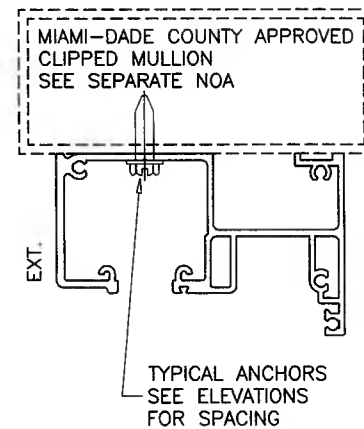
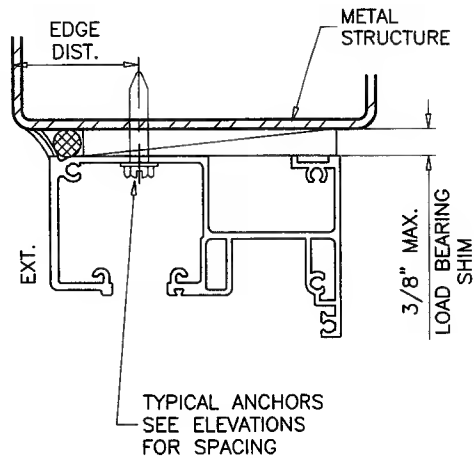
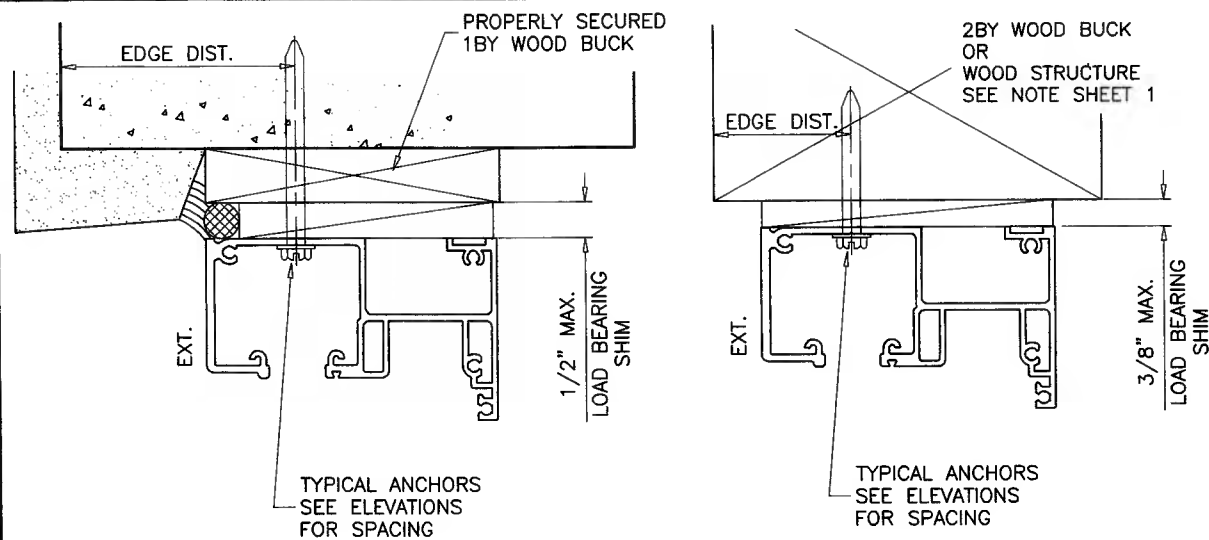
DEC 01 2023



SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W17-103ECO

revisions:					
no		date		by description	
A	05.17.18			REV. PER RER COMMENTS	
B	11.05.20			UPDATED TO 2020 FBC	
date: 11-15-17		scale: 3/8" = 1"			
drawing no.		dr. by: TARIQ			
W17-103		chk. by:			
sheet 5 of 11					



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

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONC. OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'A1' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'B' - #14 SMS (GRADE 2 CRS)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

TYPE 'C' - 1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS BY 'HILTI' (Fu=120 KSI, Fy=92 KSI)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM AT HEAD: 1/4" THK. MIN. (6063-T5 MIN.)
ALUMINUM AT JAMBS: 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 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 GROUT FILLED FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

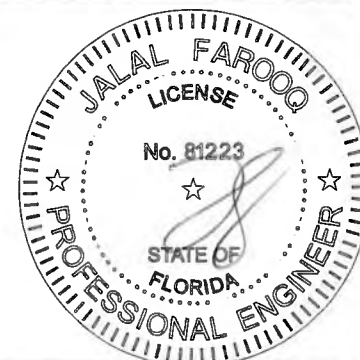
NOTES:
FOR DOOR CAPACITY SEE SHEETS 2 & 3
FOR ANCHOR CAPCITY SEE CHART ABOVE
LOWER VALUES FROM DOOR CAPACITY OR ANCHOR CAPACITY
CHART WILL APPLY TO ENTIRE SYSTEM.

HEAD ANCHORS LOAD CAPACITY - PSF									
ANCHOR TYPE			ANCHOR TYPE 'A'		ANCHOR TYPE 'A1'		ANCHOR TYPE 'B'		ANCHOR 'C'
MAXIMUM PANEL WIDTH INCHES	MAXIMUM PANEL HEIGHT INCHES	MAXIMUM NUMBER OF PANELS ALLOWED	4 ANCHORS AT MTG. STILE ENDS EXT. (+) INT. (-)	6 ANCHORS AT MTG. STILE ENDS EXT. (+) INT. (-)	4 ANCHORS AT MTG. STILE ENDS EXT. (+) INT. (-)	6 ANCHORS AT MTG. STILE ENDS EXT. (+) INT. (-)	4 ANCHORS AT MTG. STILE ENDS EXT. (+) INT. (-)	6 ANCHORS AT MTG. STILE ENDS EXT. (+) INT. (-)	4 ANCHORS AT MTG. STILE ENDS EXT. (+) INT. (-)
24	84	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
32		10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36		10	60.0	60.0	60.0	60.0	54.8	60.0	60.0
40		9	60.0	60.0	57.2	60.0	49.3	60.0	60.0
24	90	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
32		10	60.0	60.0	60.0	60.0	57.5	60.0	60.0
36		10	60.0	60.0	59.5	60.0	51.1	60.0	60.0
40		9	57.0	60.0	53.1	60.0	46.0	60.0	60.0
24	96	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
32		10	60.0	60.0	60.0	60.0	53.9	60.0	60.0
36		10	59.4	60.0	55.5	60.0	47.9	60.0	60.0
40		9	53.5	60.0	49.5	60.0	43.1	60.0	60.0
24	102	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	58.0	60.0	60.0
32		10	60.0	60.0	59.0	60.0	50.7	60.0	60.0
36		10	55.9	60.0	52.0	60.0	45.1	60.0	60.0
40		9	50.3	60.0	46.4	60.0	40.6	56.8	60.0
24	108	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	54.8	60.0	60.0
32		10	59.4	60.0	55.5	60.0	47.9	60.0	60.0
36		10	52.8	60.0	48.9	60.0	42.6	59.6	60.0
40		9	47.5	60.0	43.5	60.0	38.3	53.7	60.0

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06

Expiration Date 11/08/2023

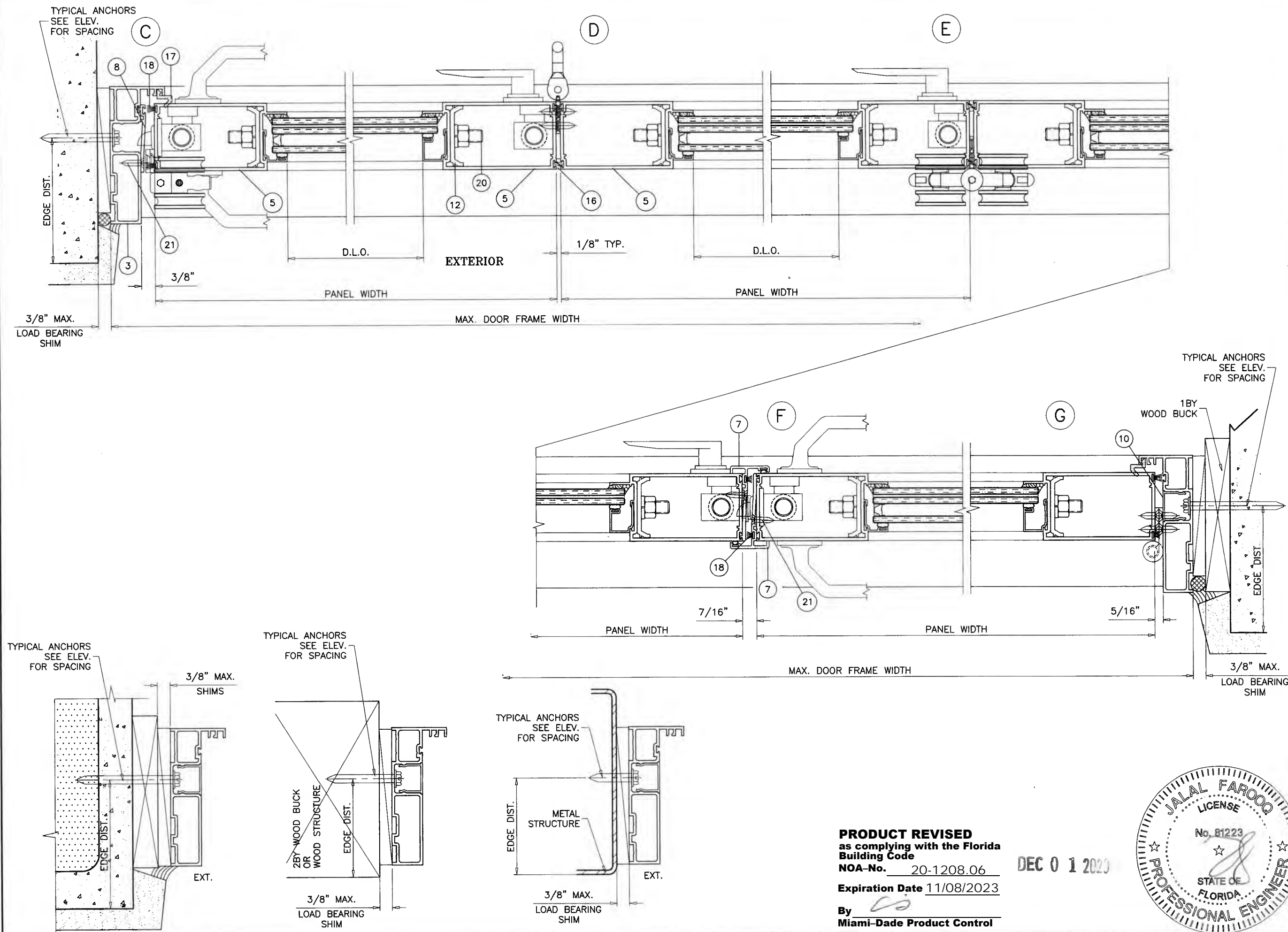
By 
Miami-Dade Product Control



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
COMP-ANL W17-103ECO

SERIES 900 ALUMINUM BI-FOLD 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:		date:	11-15-17	scale:	3/8" = 1"	dr. by:	TARIQ	chk. by:	
no.	description	date	by	rev.	per	comments			
A		05.17.18							
B		11.05.20				UPDATED TO 2020 FBC			
drawing no.		W17-103							
sheet		6 of 11							



af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W17-103ECO

SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
 8502 N.W. 80th STREET
 MEDLEY, FL. 33166
 TEL. (305) 885-5299 FAX (305) 885-5902

date: 11-15-17		revisions:			
scale: 3/8" = 1"		no	date	by	description
drawing no. W17-103		A	05.17.18		REV. PER RER COMMENTS
		B	11.05.20		UPDATED TO 2020 FBC
dr. by: TARIQ					
chk. by:					
sheet 7 of 11					

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 20-1208.06
 Expiration Date 11/08/2023
 By *[Signature]*
 Miami-Dade Product Control

DEC 0 1 2020



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E901	1	TOP TRACK	6063-T6	-
2	E902	1	STD. BOTTOM TRACK	6063-T6	-
2A	E903	1	LOW PROFILE BOTTOM TRACK	6063-T6	-
3	E904	2	FRAME JAMB	6063-T6	-
4	E907	2/ PANEL	PANEL TOP/BOTTOM RAIL	6063-T6	-
5	E908	2/ PANEL	PANEL STILE	6063-T6	-
6	E909	AS REQD.	PANEL ALIGNMENT CLIP	6063-T6	-
7	E910	AS REQD.	ASTRAGAL ADAPTER	6063-T6	-
8	E911	AS REQD.	JAMB ADAPTER	6063-T6	-
9	E913	AS REQD.	GLASS STOP (LAM. GLASS)	6063-T6	-
9A	E912	AS REQD.	GLASS STOP (INSUL. LAM. GLASS)	6063-T6	-
10	E905	AS REQD.	POCKET COVER	6063-T6	-
11	E915	AS REQD.	PANEL W'STRIP ADAPTER	6063-T6	-
11A	#10 X 3/4"	2/ PANEL	W'STRIP ADAPTER FASTENERS	ST. STEEL	AT 6" FROM EACH END
12	E613	AS REQD.	PANEL CLAMP WITH WASHER & NUT	6063-T6	-
13	E906	AS REQD.	BOTTOM TRACK LINER	POLYPROPYLENE	DUROMETER 62 SHORE D
14	E206	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
15	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
16	E914	AS REQD.	BULB W'STRIPPING	SOFT PVC	CENTRAL PLASTICS, DUROMETER 67±5 SHRE A
17	QW521	AS REQD.	COMPRESSION W'STRIPPING	Q-LON	-
18	W11323	AS REQD.	PILE W'STRIPPING	WOOL	ULTRAFAB
19	#10 X 2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SMS
20	-	2/ PANEL	3/8" DIA. THREADED ROD	STEEL	-
21	#10 X 3/4"	AS REQD.	ADAPTER FASTENERS	ST. STEEL	AT 6" FROM ENDS & 24" O.C.
22	-	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 85±5 SHORE A
23	-	AS REQD.	FOUR POINT LOCK	-	INTERLOCK, USA
24	-	AS REQD.	TWO POINT LOCK	-	INTERLOCK, USA
25T, 25B, 25M	-	AS REQD.	PIVOT SET, SURFACE MOUNT	ST. STEEL	HENDERSON
26T, 26B	-	AS REQD.	END HANGER SET, SURFACE MOUNT	ST. STEEL	HENDERSON
27T, 27B, 27M	-	AS REQD.	INTERMEDIATE HANGER SET, SURFACE MOUNT	ST. STEEL	HENDERSON

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SMALL JOINT SEALER.

LOCKS:

ACTIVE LEAF:

4 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.' WITH LEVER TYPE HANDLE AT 42" FROM BOTTOM KEY OPERATOR ON EXTERIOR AND THUMB TURN ON INTARIOIR (2) LOCKING POINTS ENGAGING AT INACTIVE LEAF AT STRIKE PLATE 1/2" DIA. THROW BOLT (1) AT TOP ENGAGING FRAME HEAD AND (1) AT BOTTOM ENGAGING FRAME SILL THROW BOLTS ATTACHED TO LOCK BY 3/8" CONCEALED VERTICAL RODS FASTENED TO ACTIVE LEAF LOCK STILE WITH (2) 10-24 X 1-7/8" FH MACHINE SCREWS

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.' WITH LEVER TYPE HANDLE AT 42" FROM BOTTOM 1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME HEAD AND FRAME SILL THROW BOLTS ATTACHED TO LOCK BY 3/8" CONCEALED VERTICAL RODS FASTENED TO STILES WITH (2) 8-32 X 1-1/8" FH MACHINE SCREWS

STRIKE PLATE FOR 4 POINT LOCK:

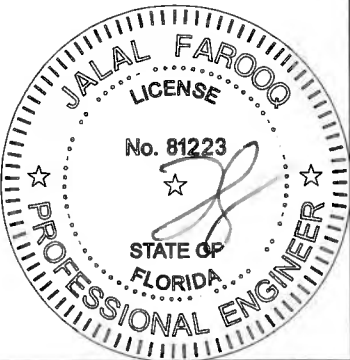
SURFACE MOUNT METALLIC STRIKE PLATE AT 47" FROM BOTTOM FACING LOCKING POINTS FASTENED TO INACTIVE LEAF WITH (8) #8 X 3/4" FH SELF DRILLING SCREWS

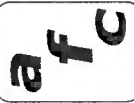
KEEPERS FOR THROW BOLT AT SILL:

SURFACE MOUNT ST. STEEL KEEPERS EACH FASTENED TO FRAME SILL WITH (2) #8 X 2" FH SMS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06
Expiration Date 11/08/2023
By 
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

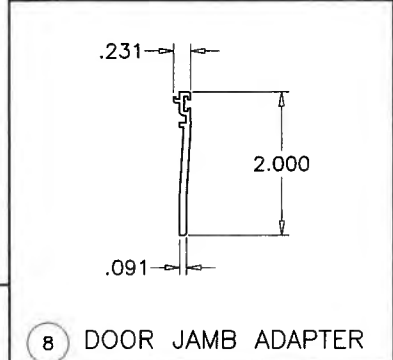
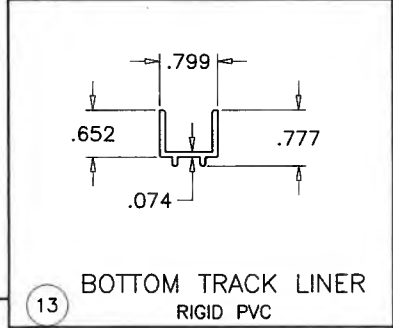
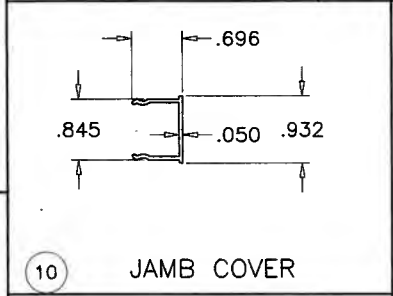
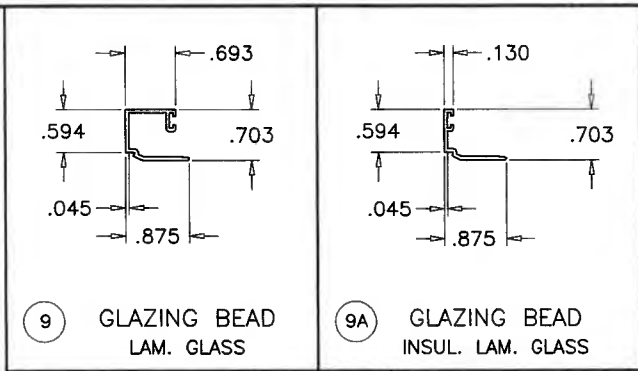
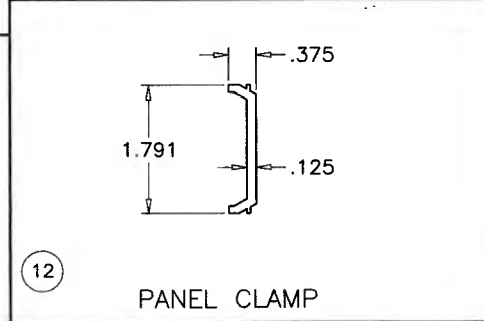
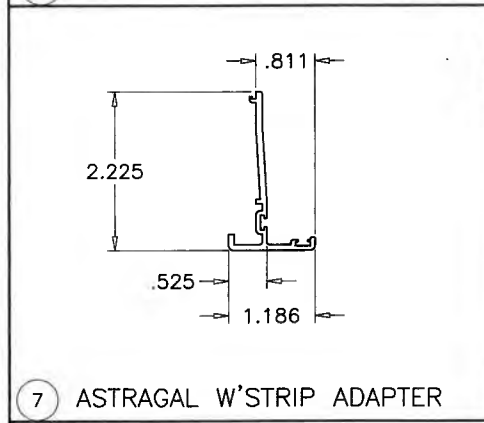
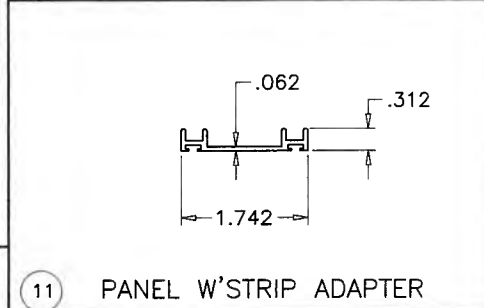
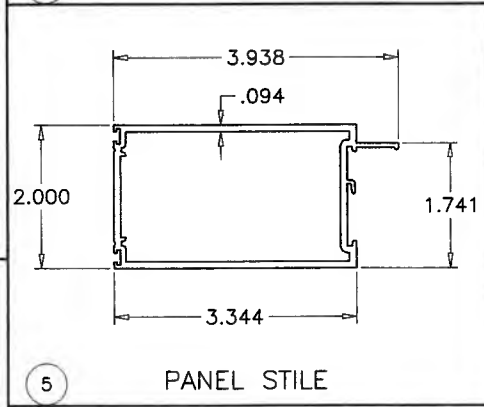
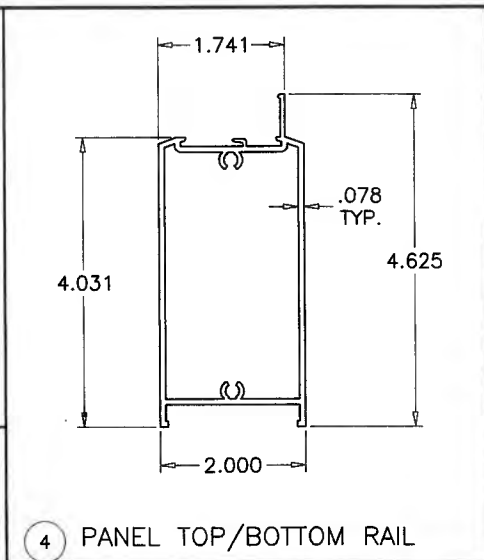
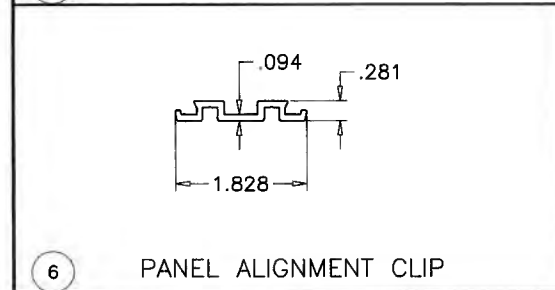
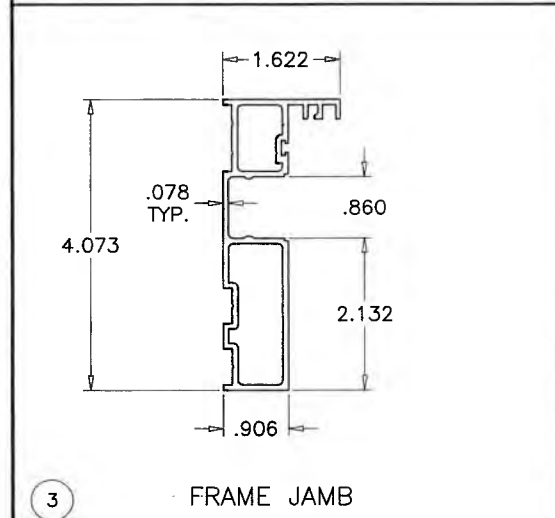
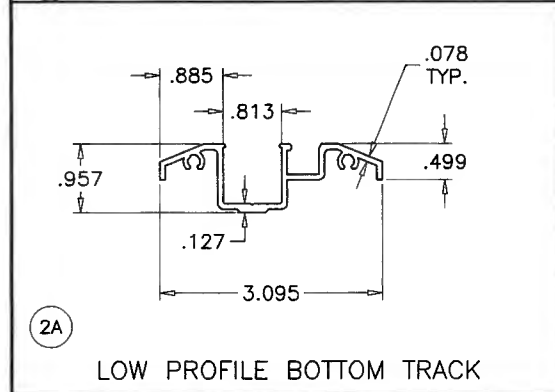
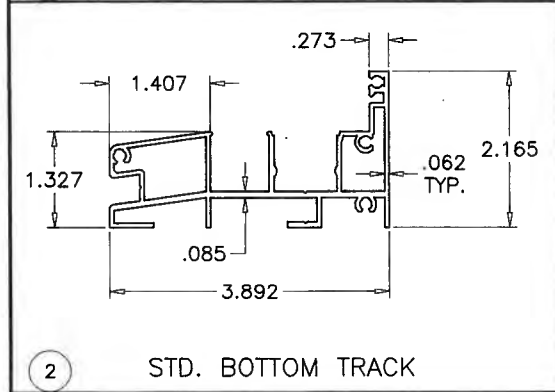
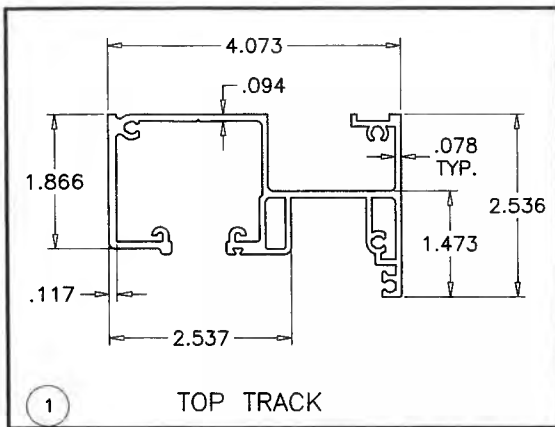
SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)

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	05.17.18		REV. PER RER COMMENTS
	B	11.05.20		UPDATED TO 2020 FBC

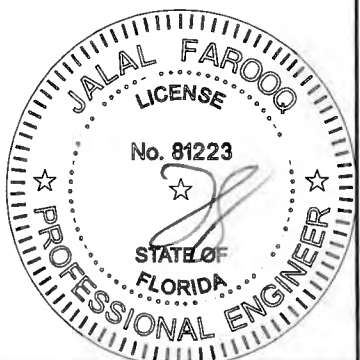
date:	11-15-17
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.	W17-103
sheet	8 of 11



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06
Expiration Date 11/08/2023
By *[Signature]*
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 W17-103ECO

SERIES 900 ALUMINUM BI-FOLD 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:		date:	11-15-17	by:	description
A	05.17.18	NO CHANGE	THIS SHEET		
B	11.05.20	UPDATED TO	2020 FBC		

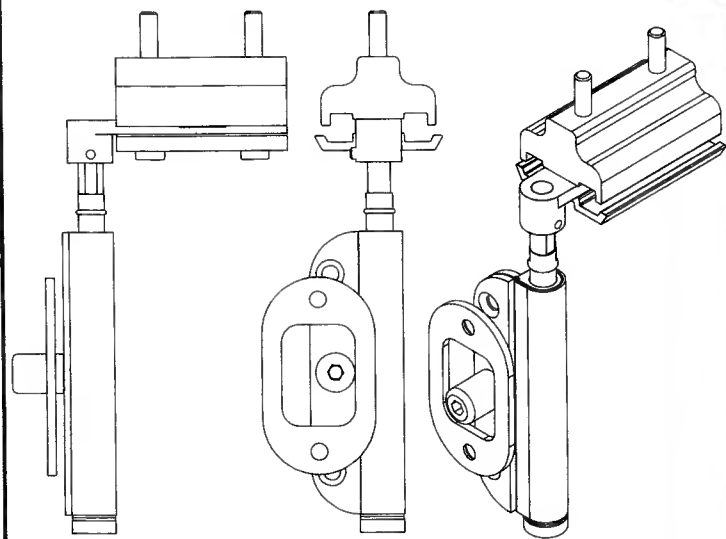
scale: 3/8" = 1"

dr. by: TARIQ

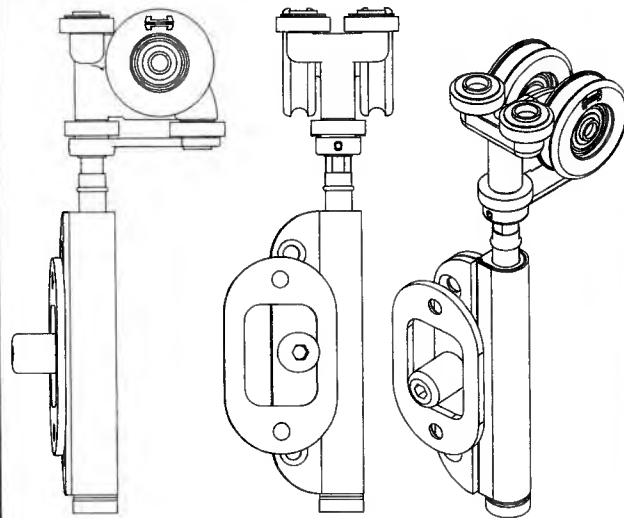
chk. by:

drawing no. **W17-103**

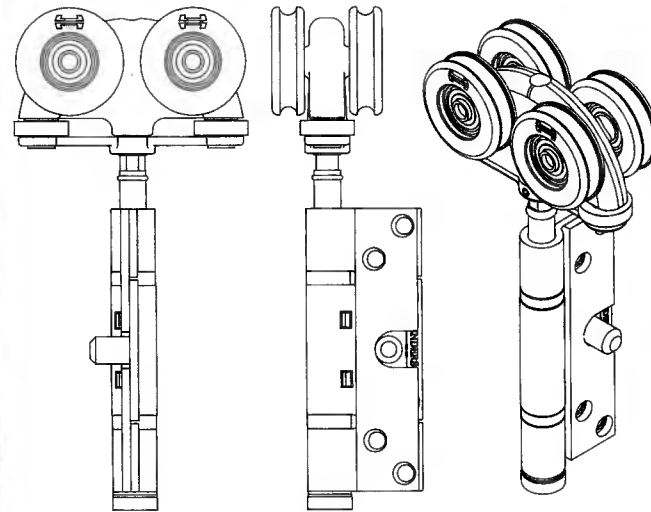
sheet **9** of **11**



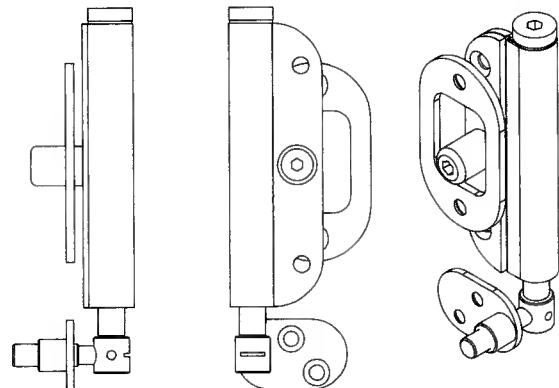
(25T) TOP PIVOT
ATTACHED WITH (6) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



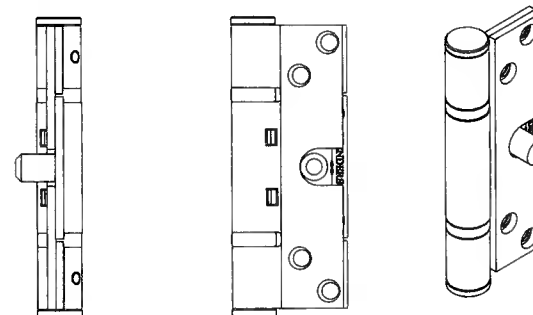
(26T) TOP END HANGER
SEE ELEVS. FOR LOCATIONS



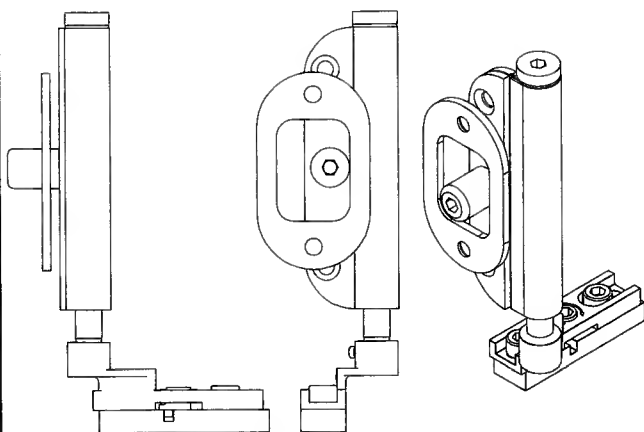
(27T) TOP INTERMEDIATE HANGER
ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



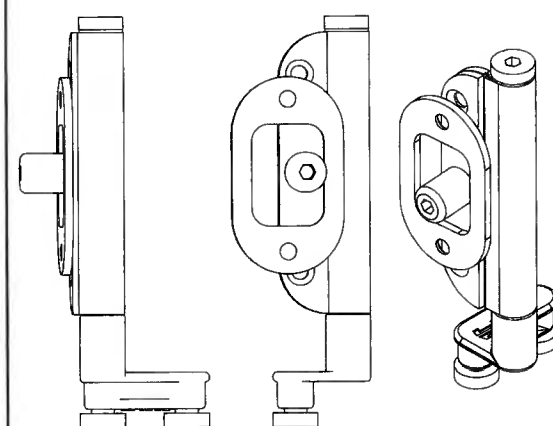
(25M) HINGE WITH HANDLE
4-1/8" LONG 3 PIECE BUTT HINGE
ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



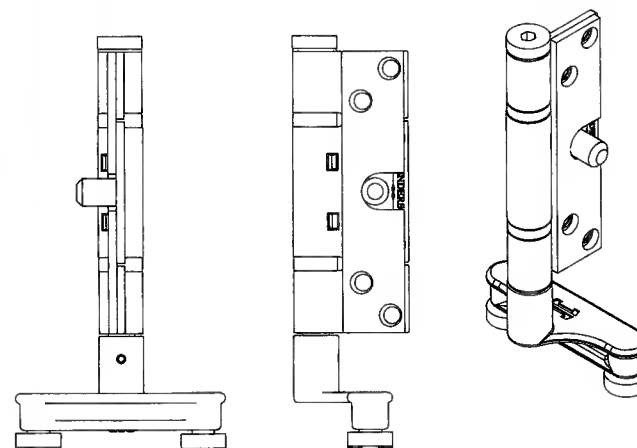
(27M) HINGE WITHOUT HANDLE
4-1/8" LONG 3 PIECE BUTT HINGE
ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



(25B) BOTTOM PIVOT
ATTACHED WITH (6) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS




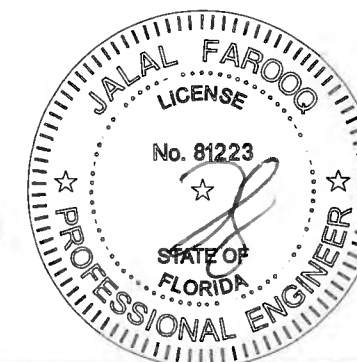
(26B) BOTTOM END PIVOT
SEE ELEVS. FOR LOCATIONS



(27B) BOTTOM SLIDING HINGE
5-1/2" LONG HINGE
ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS

DEC 01 2020

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06
Expiration Date 11/08/2023
By 
Miami-Dade Product Control

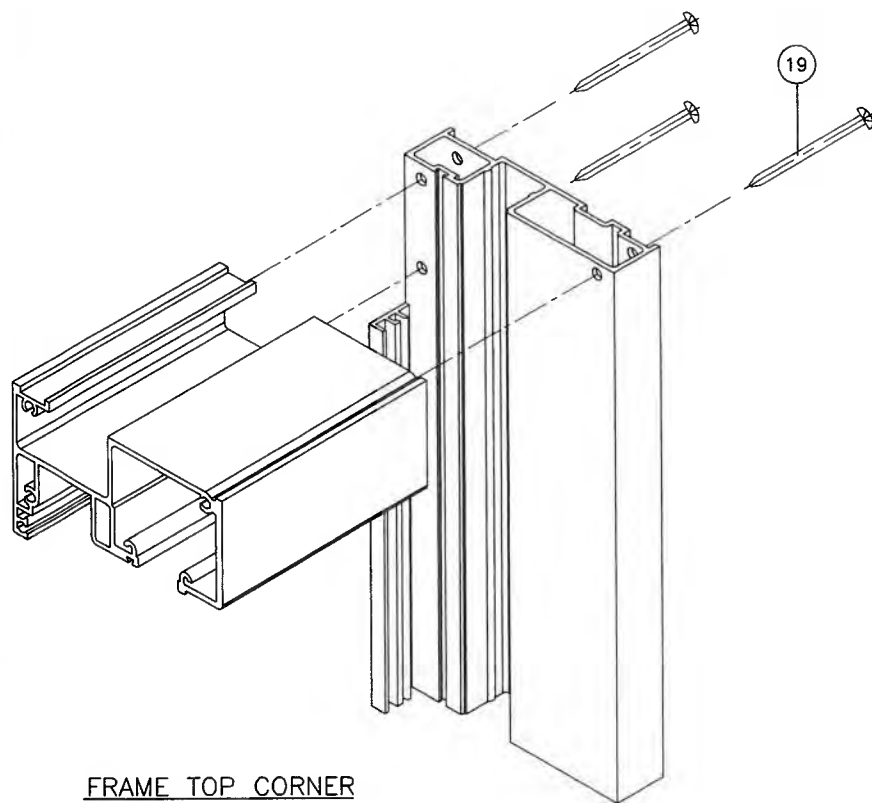


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

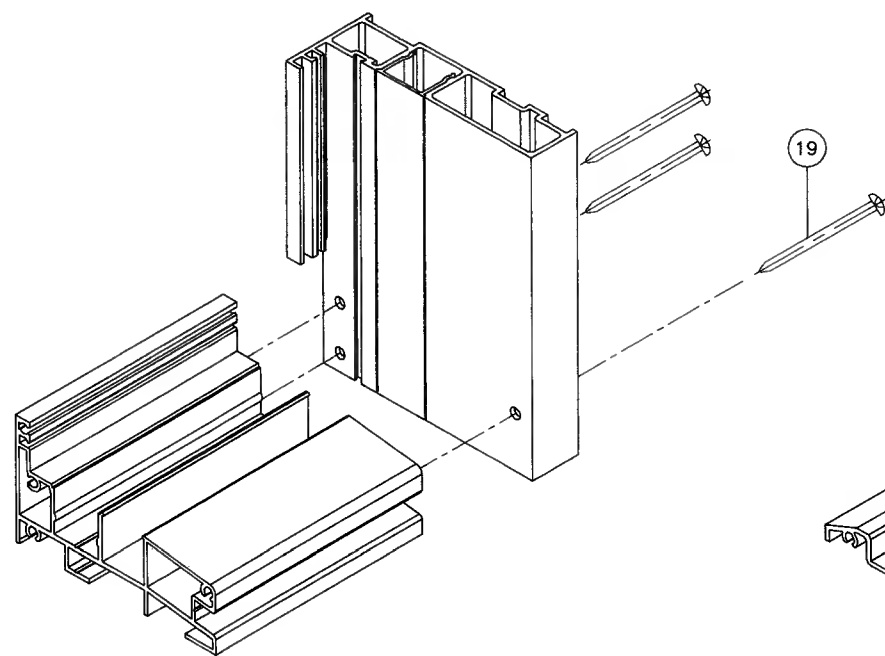
SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:		no	date	by	description
A	05.17.18	REV. PER RER COMMENTS			
B	11.05.20	UPDATED TO 2020 FBC			
date: 11-15-17		scale: 3/8" = 1"	dr. by: TARIQ	chk. by:	
drawing no.		W17-103			
sheet 10 of 11					

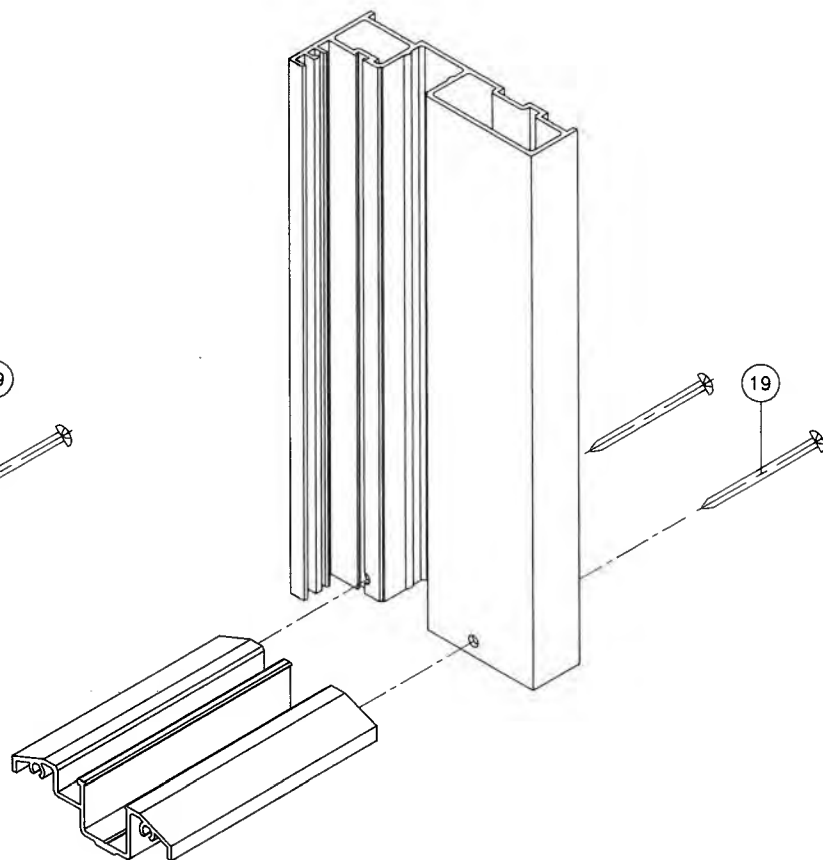
COMP-ANL\W17-103ECO



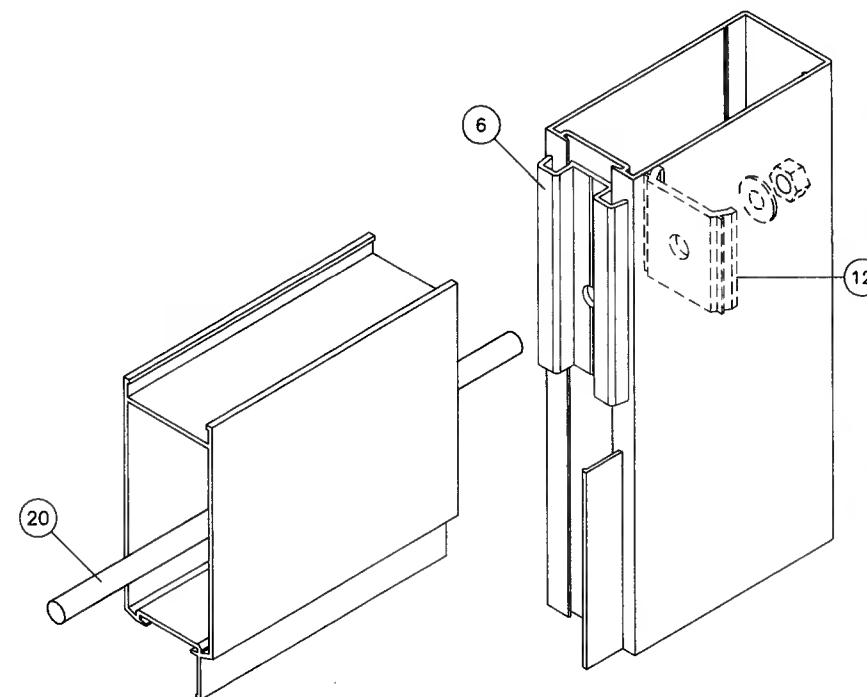
FRAME TOP CORNER




FRAME BOTTOM CORNER
STANDARD TRACK



FRAME BOTTOM CORNER
LOW PROFILE TRACK



PANEL CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1208.06
Expiration Date 11/08/2023
By 
Miami-Dade Product Control

DEC 01 2023



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)

SERIES 900 ALUMINUM BI-FOLD 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	B	05.17.18	NO CHANGE THIS SHEET		
		11.05.20	UPDATED TO 2020 FBC		
date:	11-15-17	scale:	3/8" = 1"	dr. by:	TARIQ
				chk. by:	
drawing no.	W17-103				
sheet	11 of 11				

COMP-ANL\W17-103ECO