



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

**ECO Windows Systems, LLC**  
**9114 N. W. 106<sup>th</sup> 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 "A" on 05/17/18, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Sifang Zhao, P.E.**

*S.Z.*  
*11/08/2018*



NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under file referenced below).
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.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC -2017 (6<sup>th</sup> Edition), prepared by Al-Farooq Corporation, dated 08/31/17, signed and sealed by Javad Ahmad, 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. **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.

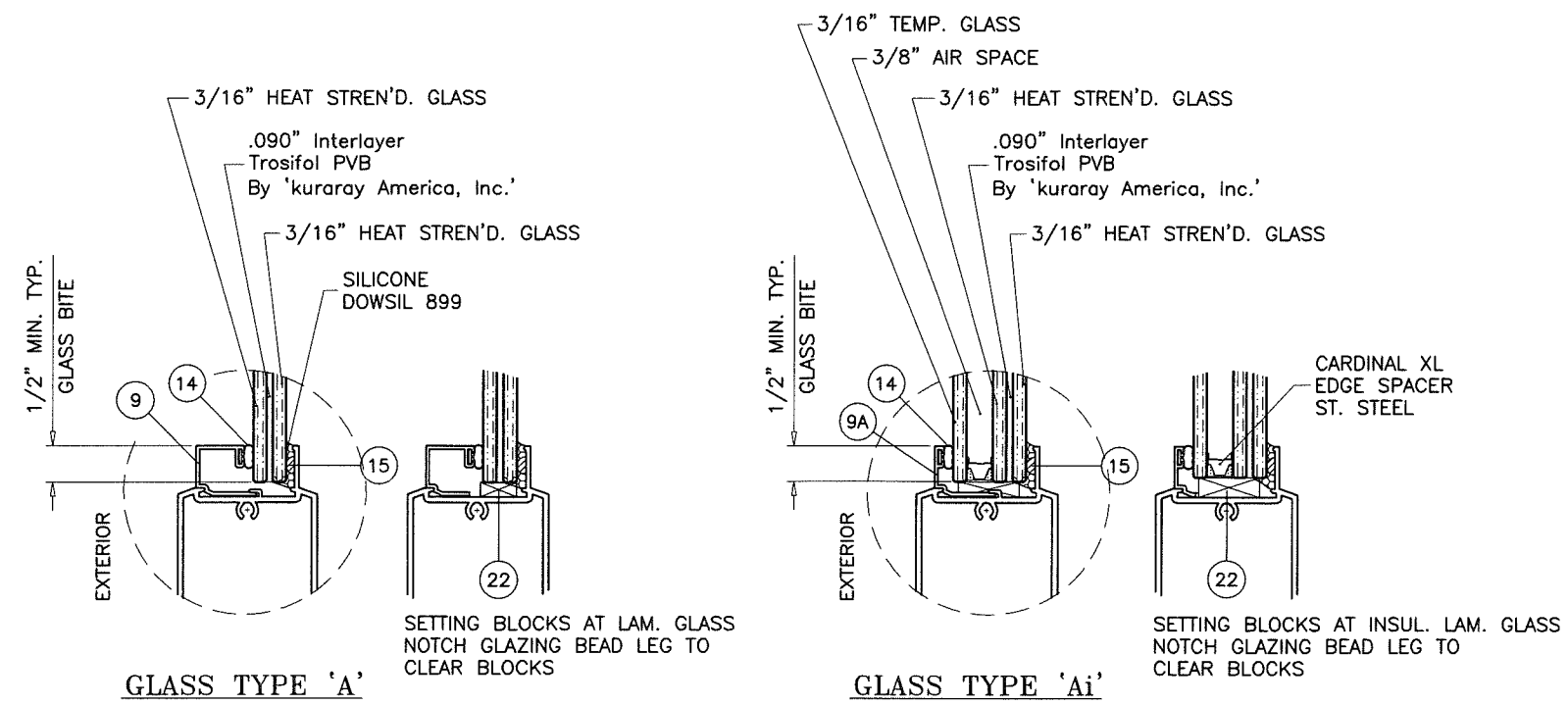
**G. OTHER**

1. None.



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 17-1218.13  
Expiration Date: November 08, 2023  
Approval Date: November 08, 2018



**GLAZING OPTIONS**

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

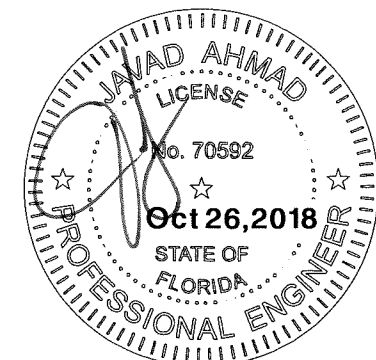
**SERIES 900 ALUMINUM OUTFOLDING BI-FOLD DOOR**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) 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 FLORIDA BLDG. CODE & ADOPTED STANDARDS.  
 THIS PRODUCT NOA 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.

NOTE:  
 VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

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.

Approved as complying with the Florida Building Code  
 Date 11/08/2018  
 NOA# 17-1218-13  
 Miami Dade Product Control  
 By *[Signature]*



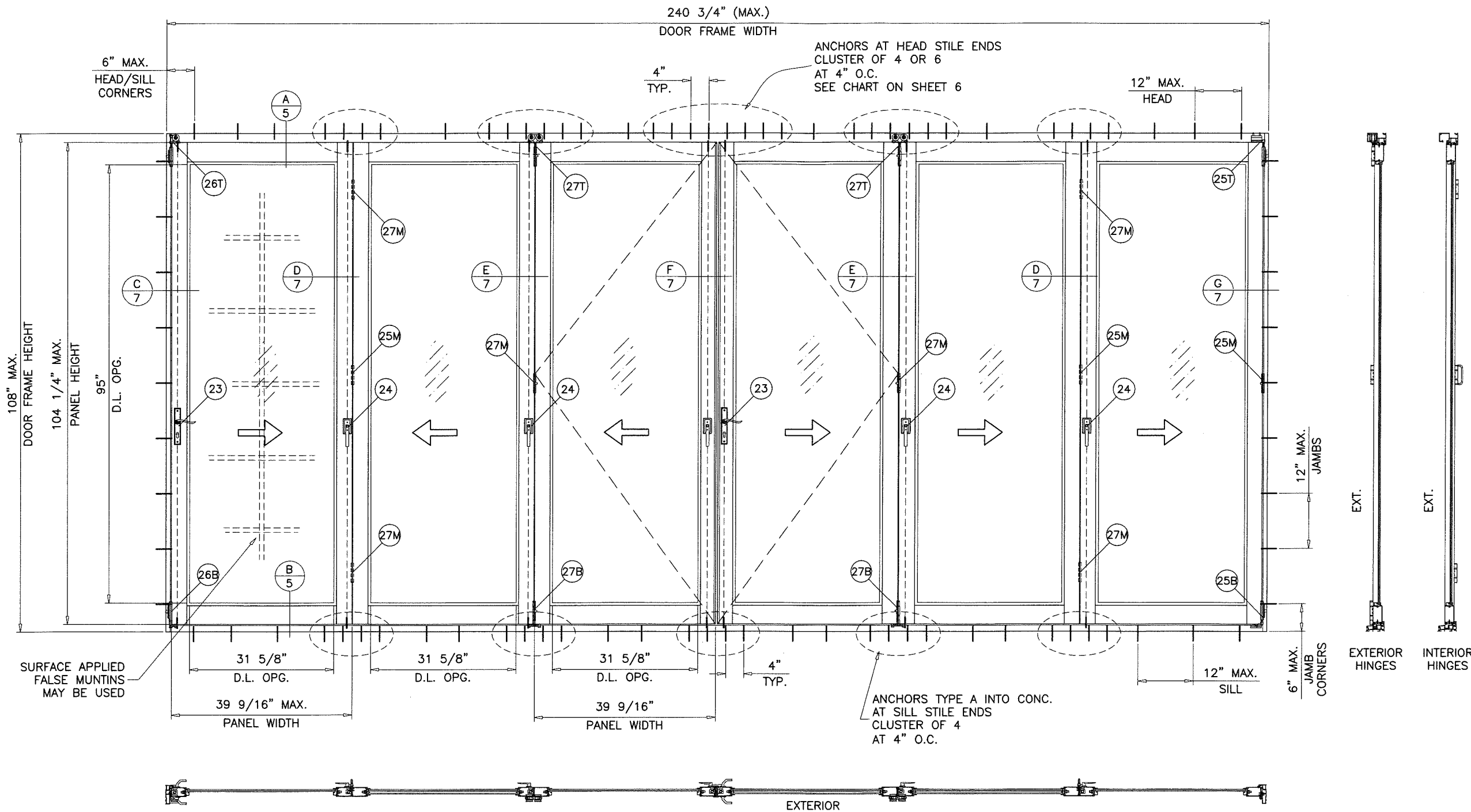
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| A          | 05.17.18 |             |                        |

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| scale:   | 3/8" = 1" |
| dr. by:  | TARIQ     |
| chk. by: |           |

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| drawing no. | W17-103 |
| sheet       | 1 of 11 |



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

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

**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

Approved as complying with the  
 Florida Building Code  
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 NOA# 17-1218.13  
 Miami Dade Product Control

By *[Signature]*



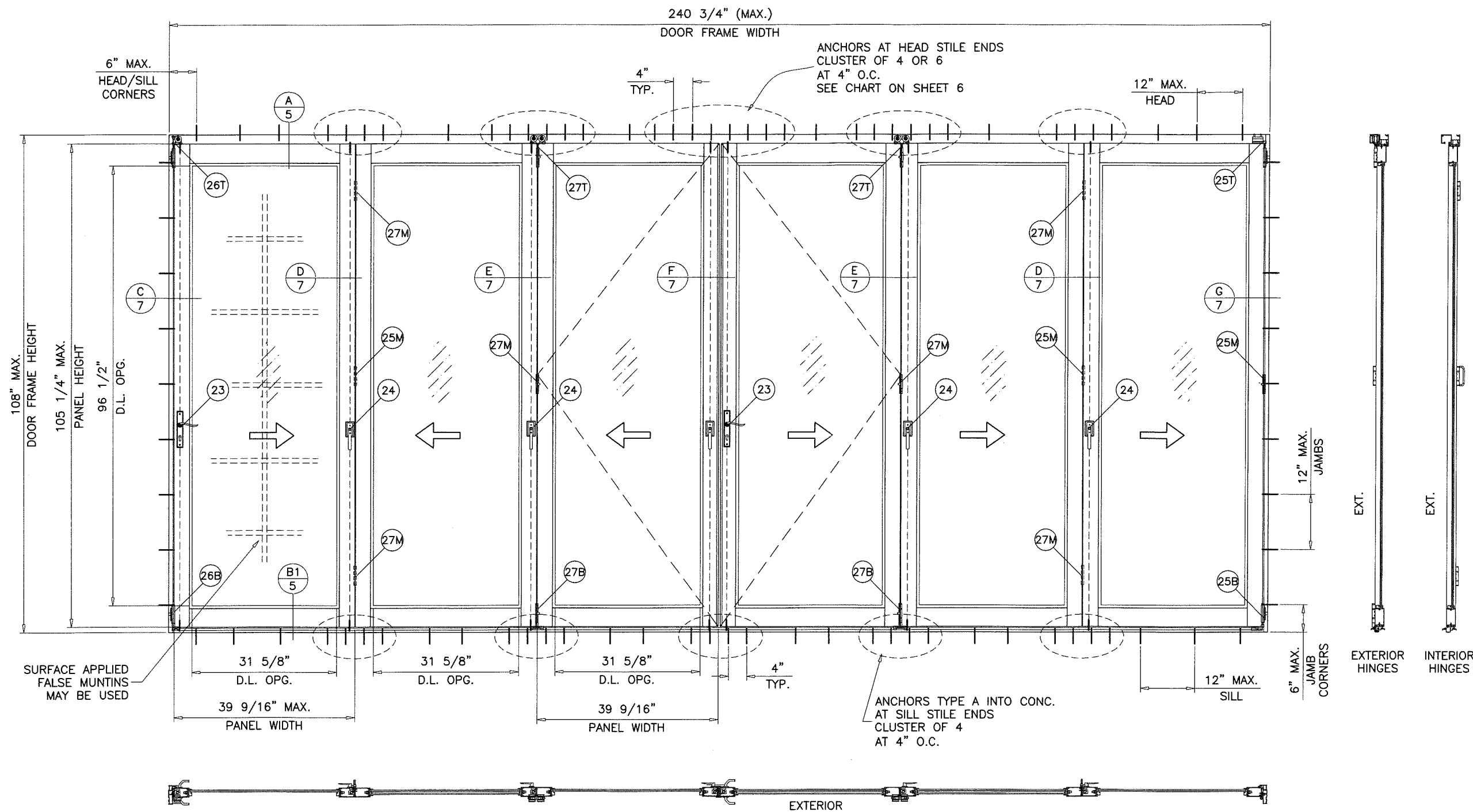
**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W17-103ECO

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:<br>no | date     | description           | by |
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| A                | 05.17.18 | REV. PER RER COMMENTS |    |

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| drawing no.    |                   | W17-103       |          |
| sheet 2 of 11  |                   |               |          |



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

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  
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AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

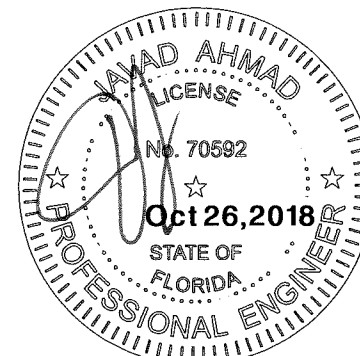
WITH LOW PROFILE BOTTOM TRACK  
MAXIMUM DESIGN LOAD RATING = + 60.0 PSF  
(FOR LEAF SIZE SHOWN OR SMALLER) - 60.0 PSF  
AS PERMITTED BY FBC REQUIREMENTS

**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"

Approved as complying with the  
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Date 11/08/2018  
NOA# 17-1218.13  
Miami Dade Product Control

By



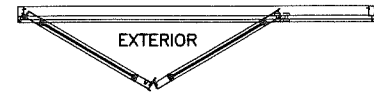
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**AL-FAROOQ CORPORATION**  
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TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W17-103FCO

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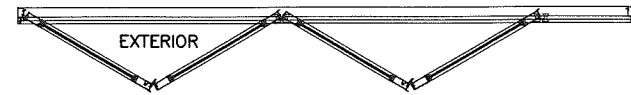
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sheet 3 of 11



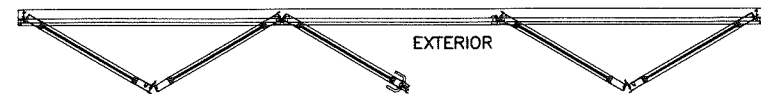
**APPROVED CONFIGURATIONS**

TWO (2) PANELS



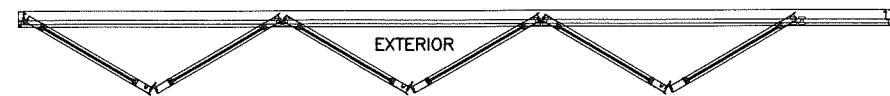
**APPROVED CONFIGURATIONS**

FOUR (4) PANELS



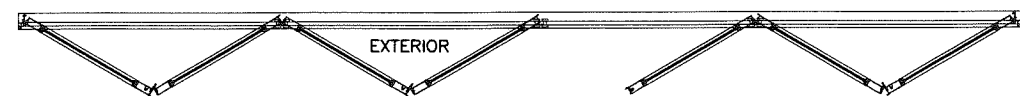
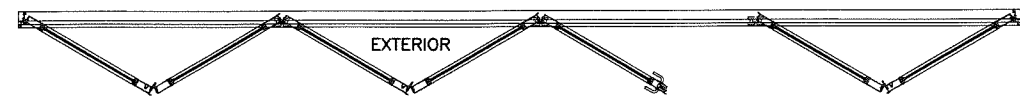
**APPROVED CONFIGURATIONS**

FIVE (5) PANELS



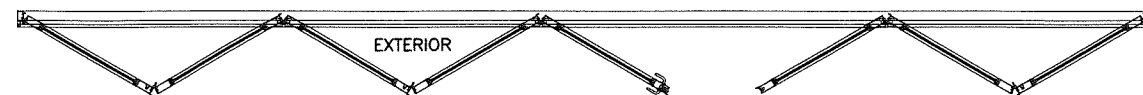
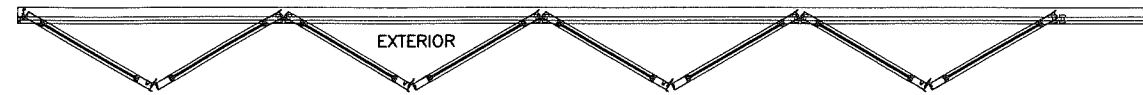
**APPROVED CONFIGURATIONS**

SIX (6) PANELS



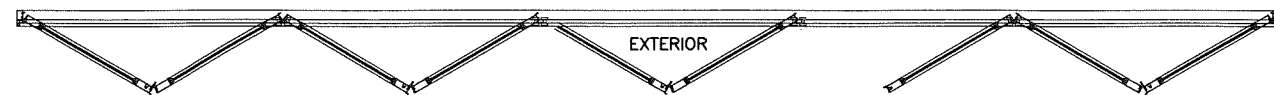
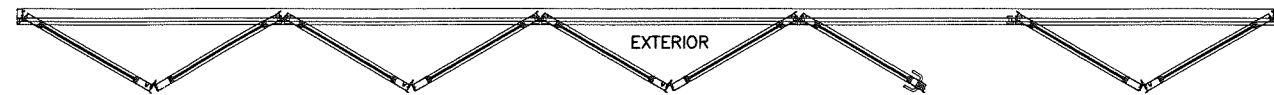
**APPROVED CONFIGURATIONS**

SEVEN (7) PANELS



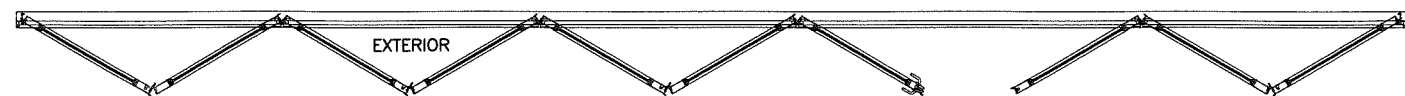
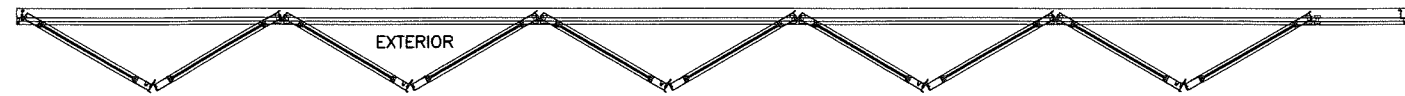
**APPROVED CONFIGURATIONS**

EIGHT (8) PANELS



**APPROVED CONFIGURATIONS**

NINE (9) PANELS



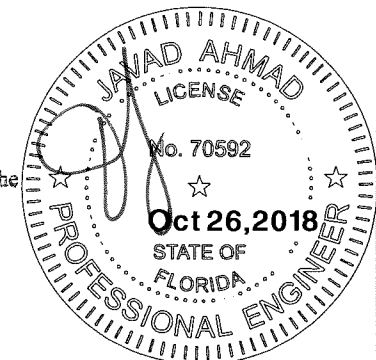
**APPROVED CONFIGURATIONS**

TEN (10) PANELS

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

Approved as complying with the  
 Florida Building Code  
 Date 11/08/2018  
 NOA# 17-1218-13  
 Miami Dade Product Control

By ca



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 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W17-103ECO

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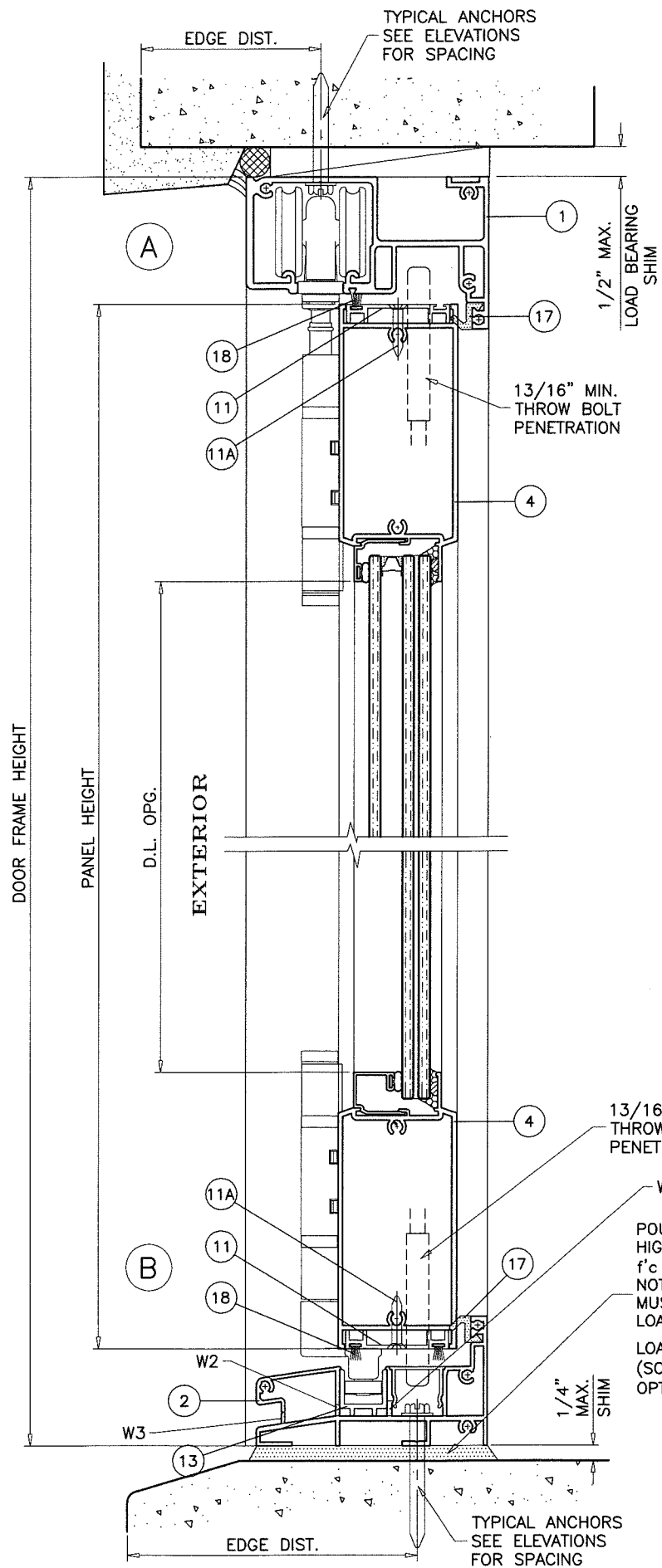
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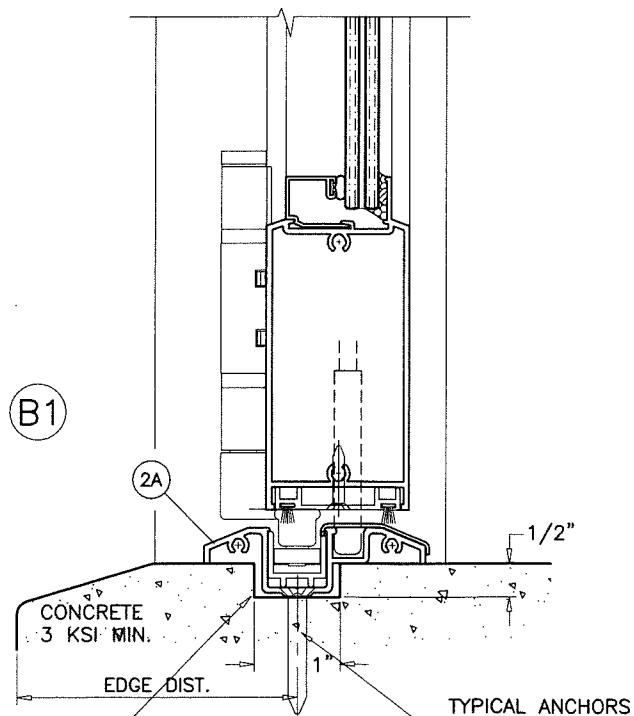
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| chk. by: |          |

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| drawing no. | W17-103 |
| sheet       | 4 of 11 |



**STD. BOTTOM TRACK**  
APPR'D FOR WATER RESISTANCE



CONCRETE SUBSTRATE TO BE RECESSED AS SHOWN BEFORE LOW TRACK INSTALLATION

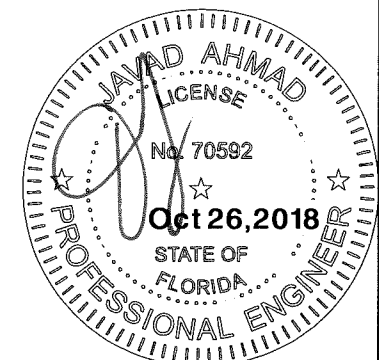
**LOW PROFILE BOTTOM TRACK**  
NOT APPR'D FOR WATER RESISTANCE

**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.

Approved as complying with the Florida Building Code  
Date 11/08/2018  
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Miami Dade Product Control

By [Signature]



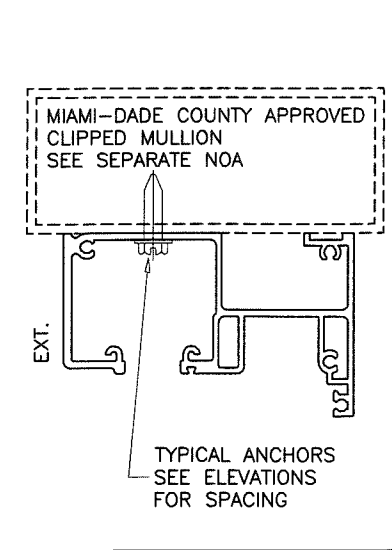
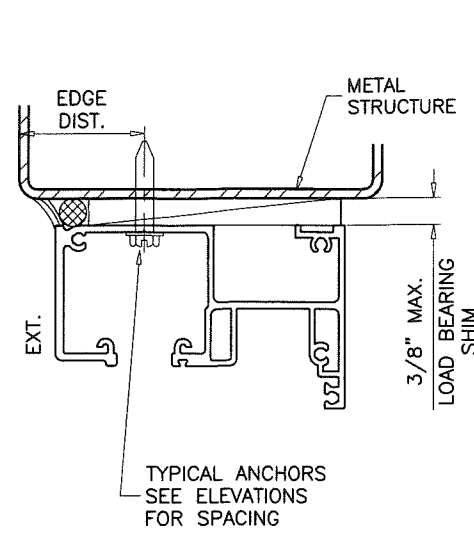
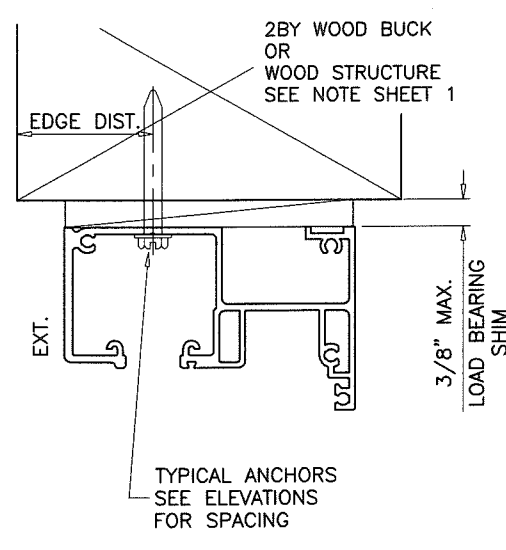
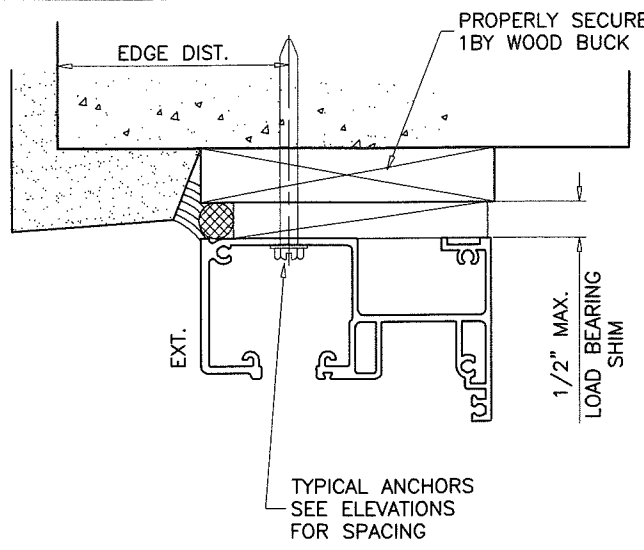
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date: 11-15-17  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W17-103**  
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 'ELCO' (Fu=177 KSI, Fy=155 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 'ELCO' (Fu=177 KSI, Fy=155 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. HILTI KWIK-FLEX SELF DRILLING SCREWS (Fu=120 KSI, Fy=90 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**

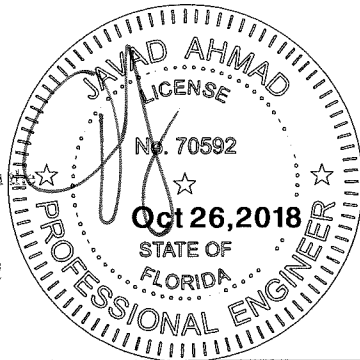
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

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.

| 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   | 57.3   | 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   | 59.6   | 60.0   | 51.1   | 60.0   | 60.0   |
| 40                               |                             | 9                                | 60.0   | 60.0   | 53.2   | 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                               | 60.0   | 60.0   | 55.6   | 60.0   | 47.9   | 60.0   | 60.0   |
| 40                               |                             | 9                                | 58.5   | 60.0   | 49.6   | 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   | 59.1   | 60.0   | 50.7   | 60.0   | 60.0   |
| 36                               |                             | 10                               | 60.0   | 60.0   | 52.0   | 60.0   | 45.1   | 60.0   | 60.0   |
| 40                               |                             | 9                                | 55.1   | 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                               | 60.0   | 60.0   | 55.6   | 60.0   | 47.9   | 60.0   | 60.0   |
| 36                               |                             | 10                               | 57.8   | 60.0   | 48.9   | 60.0   | 42.6   | 59.6   | 60.0   |
| 40                               |                             | 9                                | 52.0   | 60.0   | 43.6   | 60.0   | 38.3   | 53.7   | 60.0   |

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

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By *[Signature]*

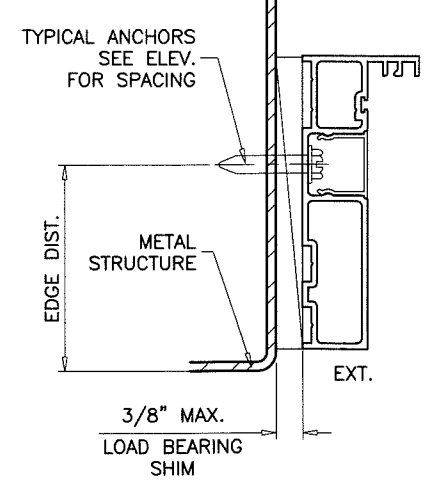
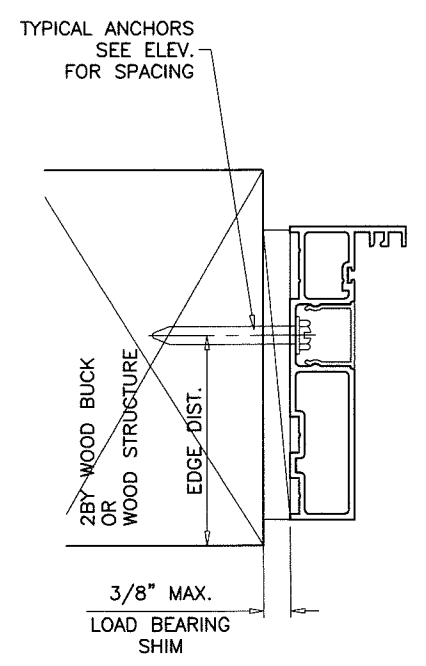
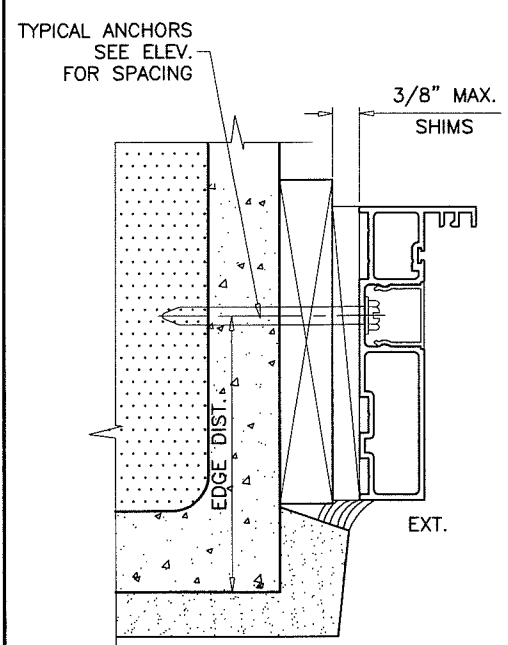
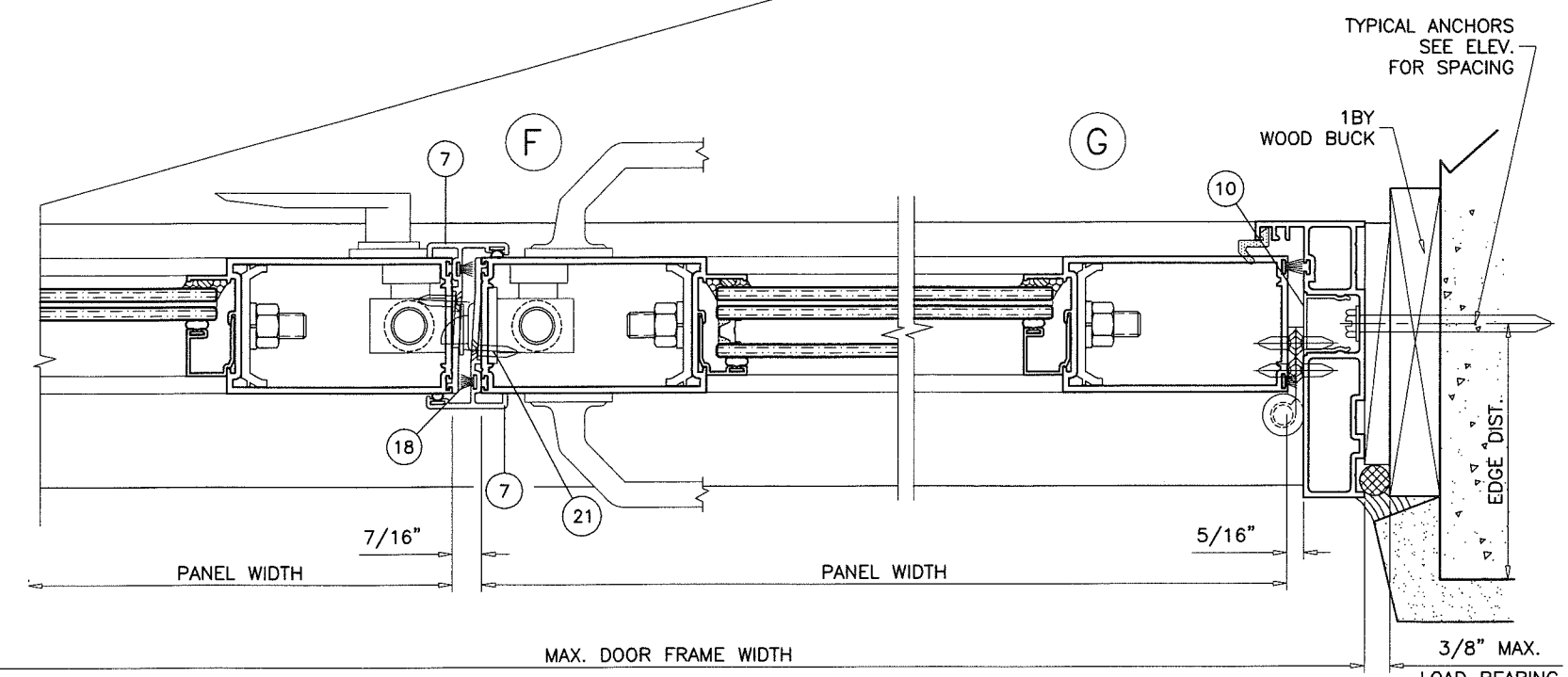
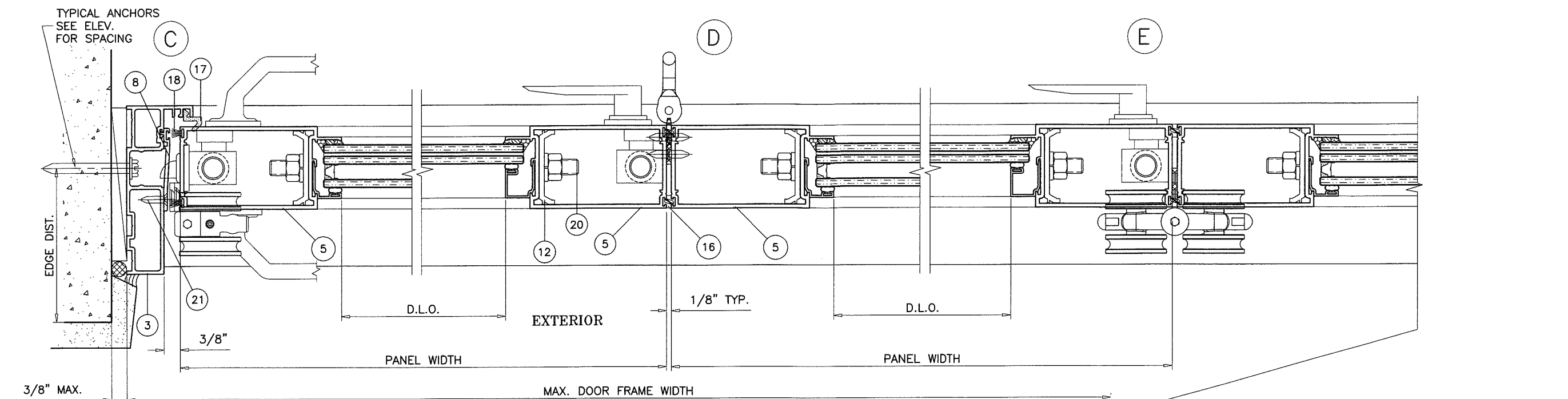


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
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MIAMI, FLORIDA 33173  
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COMP-ANL W17-103ECO

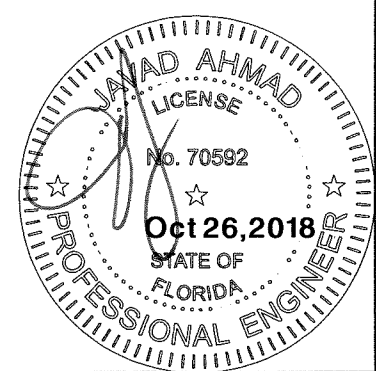
SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)  
**ECO WINDOW SYSTEMS, LLC.**  
8502 N.W. 80th STREET  
MEDLEY, FL. 33166  
TEL. (305) 885-5299 FAX (305) 885-5902

|             |          |          |                       |
|-------------|----------|----------|-----------------------|
| revisions:  | no       | date     | description           |
|             | A        | 05.17.18 | REV. PER RER COMMENTS |
| date:       | 11-15-17 | scale:   | 3/8" = 1"             |
| dr. by:     | TARIQ    | chk. by: |                       |
| drawing no. | W17-103  |          |                       |
| sheet       | 6 of 11  |          |                       |





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 NOA# 17-1216.13  
 Miami Dade Product Control



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 COMP-ANL W17-103ECO

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

| revisions: | no | date     | by | description           |
|------------|----|----------|----|-----------------------|
|            | A  | 05.17.18 |    | REV. PER PER COMMENTS |

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

drawing no. **W17-103**  
 sheet 7 of 11

| 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 INTARIOUR (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:**

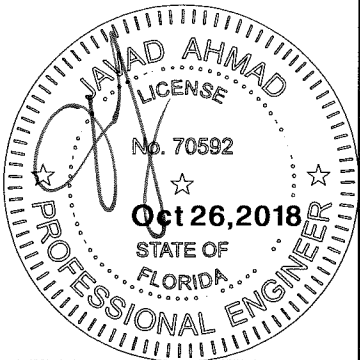
SURFACE MOUNT METALLIC STRIKE PLATE AT 47" FROM BOTTOM FACING LOCKING POINTS FASTENED TO INACTIVE LEAF WITH (8) #8 X 3/4" FH SELF DRILLING SCREWS

**KEEPERS FOR THROW BOLT AT SILL:**

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

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 NOA# 17-1218.13  
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By [Signature]



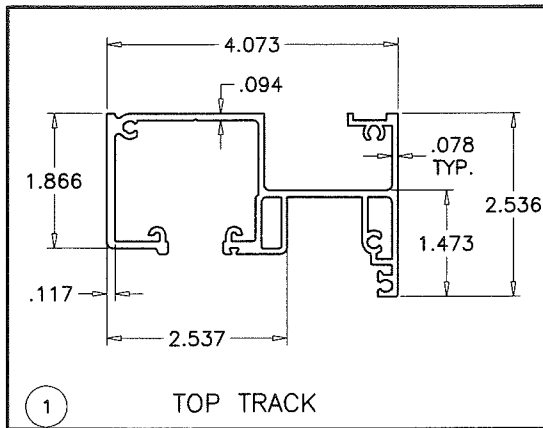
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W17-103ECO

SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)  
**ECO WINDOW SYSTEMS, LLC.**  
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 MEDLEY, FL. 33166  
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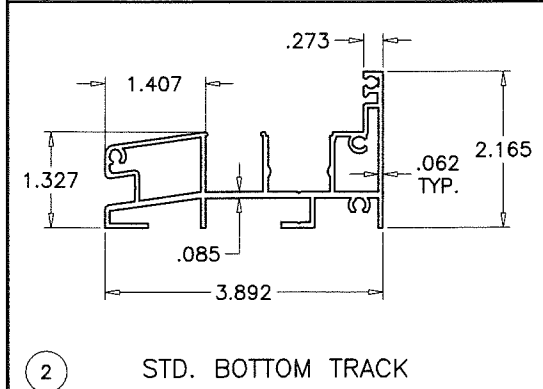
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|            | A  | 05.17.18 |    | REV. PER RER COMMENTS |

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 dr. by: TARIQ  
 chk. by:

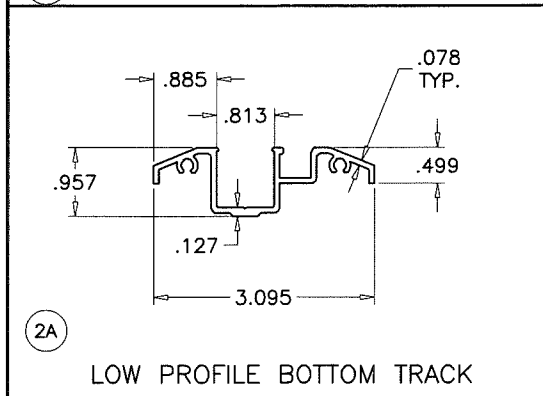
drawing no.  
**W17-103**  
 sheet 8 of 11



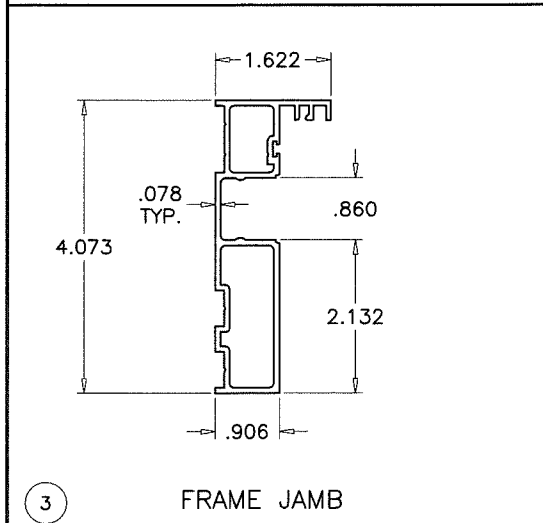
1 TOP TRACK



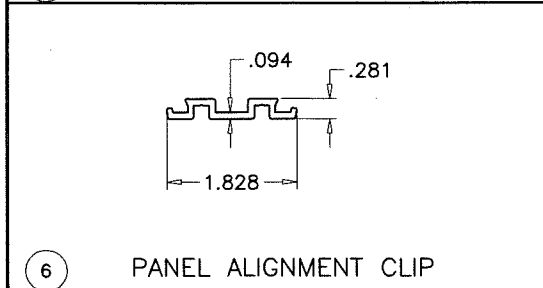
2 STD. BOTTOM TRACK



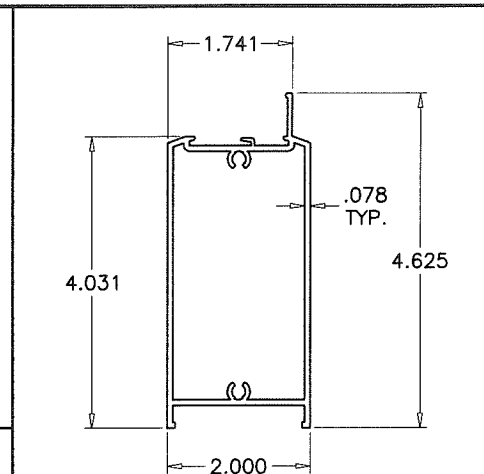
2A LOW PROFILE BOTTOM TRACK



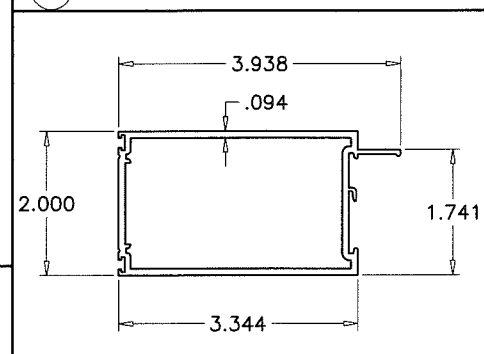
3 FRAME JAMB



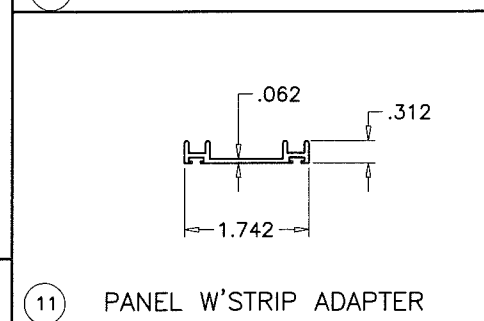
6 PANEL ALIGNMENT CLIP



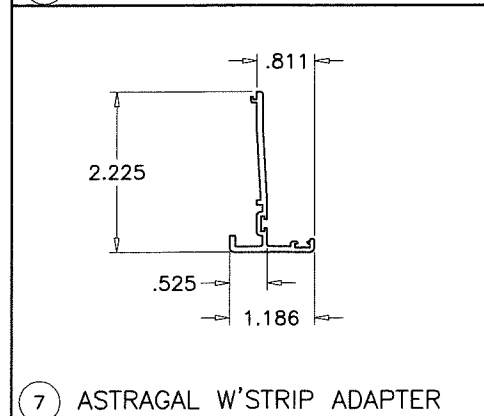
4 PANEL TOP/BOTTOM RAIL



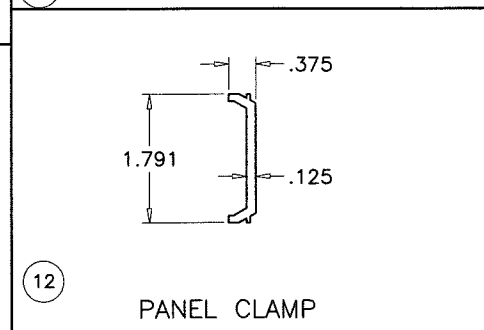
5 PANEL STILE



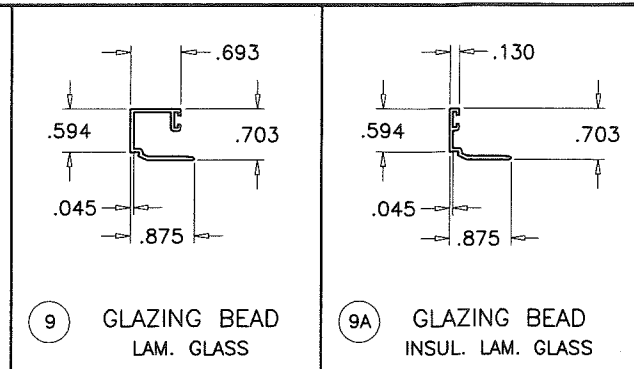
11 PANEL W'STRIP ADAPTER



7 ASTRAGAL W'STRIP ADAPTER

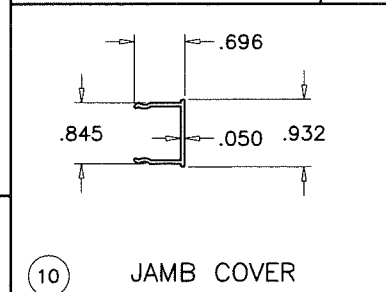


12 PANEL CLAMP

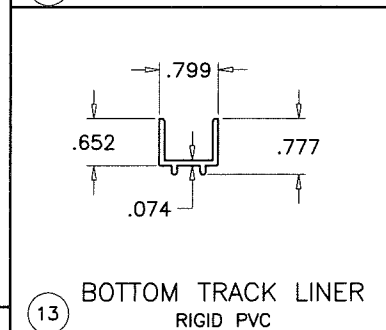


9 GLAZING BEAD LAM. GLASS

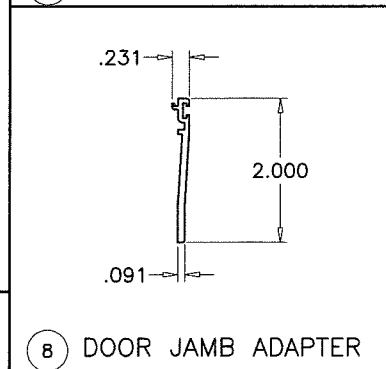
9A GLAZING BEAD INSUL. LAM. GLASS



10 JAMB COVER



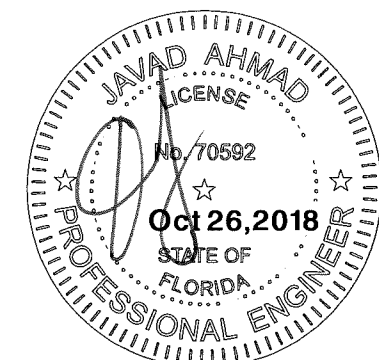
13 BOTTOM TRACK LINER RIGID PVC



8 DOOR JAMB ADAPTER

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 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
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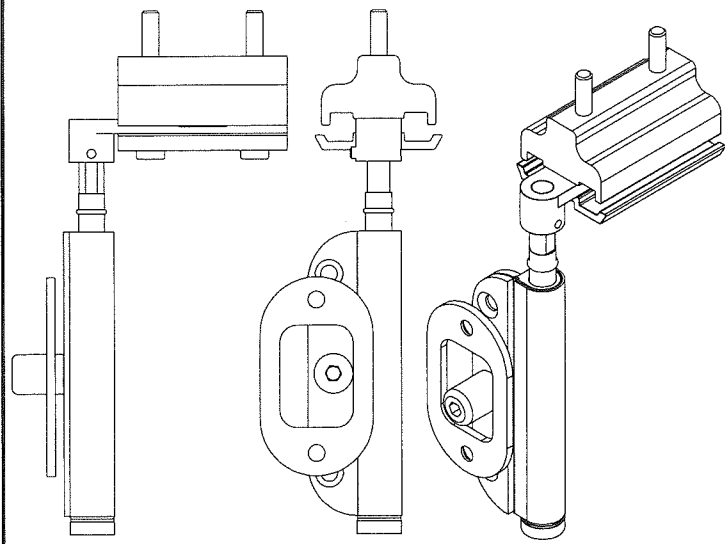
SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)  
**ECO WINDOW SYSTEMS, LLC.**  
 8502 N.W. 80th STREET  
 MEDLEY, FL. 33166  
 TEL. (305) 885-5299 FAX (305) 885-5902

| no | date     | description          |
|----|----------|----------------------|
| A  | 05.17.18 | NO CHANGE THIS SHEET |
|    |          |                      |
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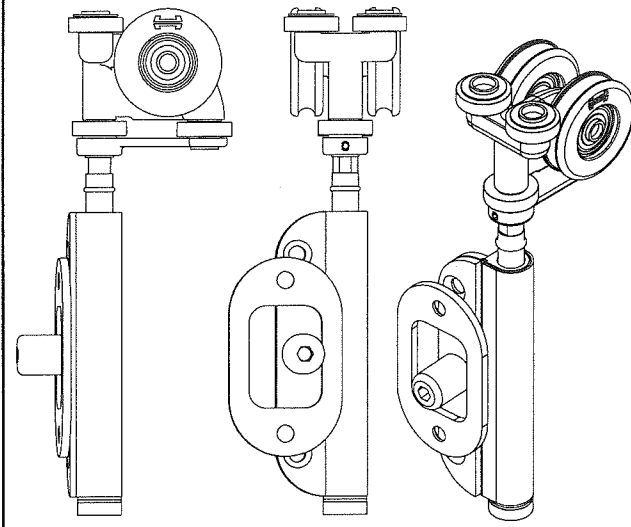
revisions:

date: 11-15-17  
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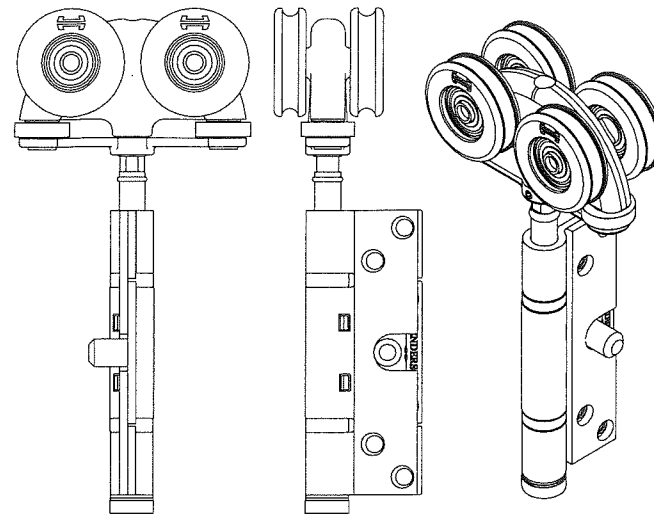
drawing no. **W17-103**  
 sheet 9 of 11



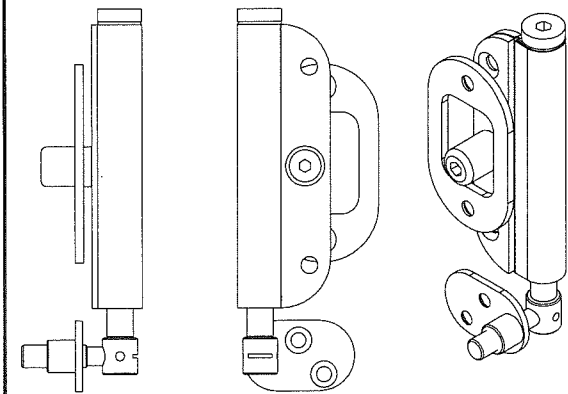
25T **TOP PIVOT**  
 ATTACHED WITH (6) #10 X 1" FH SELF DRILLING SCREWS  
 SEE ELEVS. FOR LOCATIONS



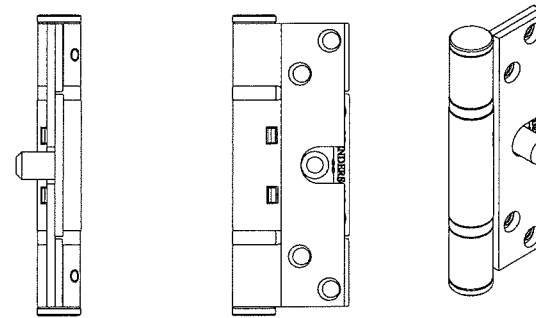
26T **TOP END HANGER**  
 SEE ELEVS. FOR LOCATIONS



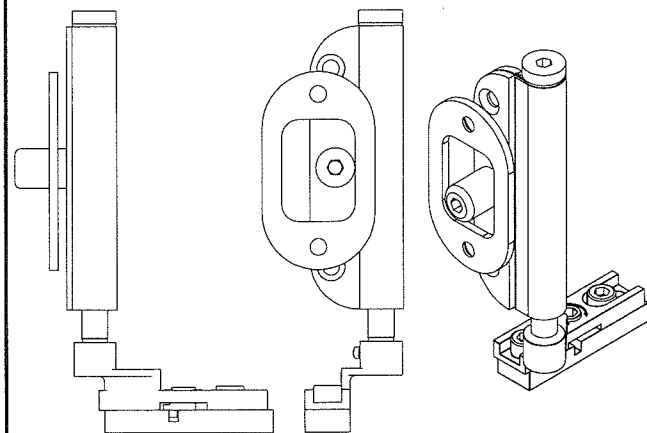
27T **TOP INTERMEDIATE HANGER**  
 ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS  
 SEE ELEVS. FOR LOCATIONS



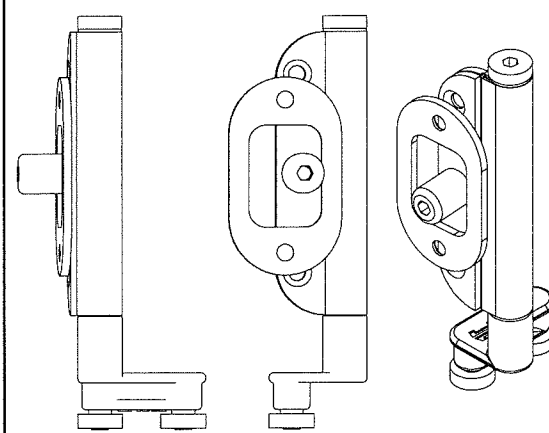
25M **HINGE WITH HANDLE**  
 4-1/8" LONG 3 PIECE BUTT HINGE  
 ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS  
 SEE ELEVS. FOR LOCATIONS



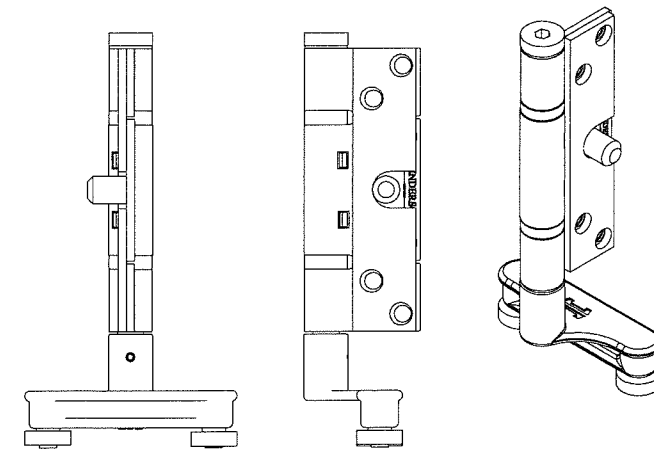
27M **HINGE WITHOUT HANDLE**  
 4-1/8" LONG 3 PIECE BUTT HINGE  
 ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS  
 SEE ELEVS. FOR LOCATIONS



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



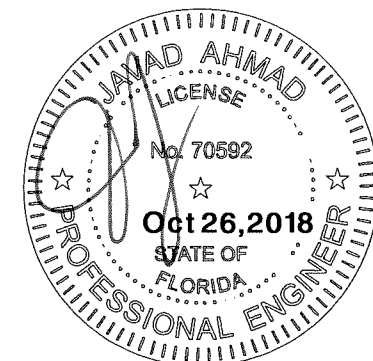
26B **BOTTOM END PIVOT**  
 SEE ELEVS. FOR LOCATIONS



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

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 Florida Building Code  
 Date 11/08/2018  
 NOA# 17-1218-13  
 Miami Dade Product Control

By [Signature]



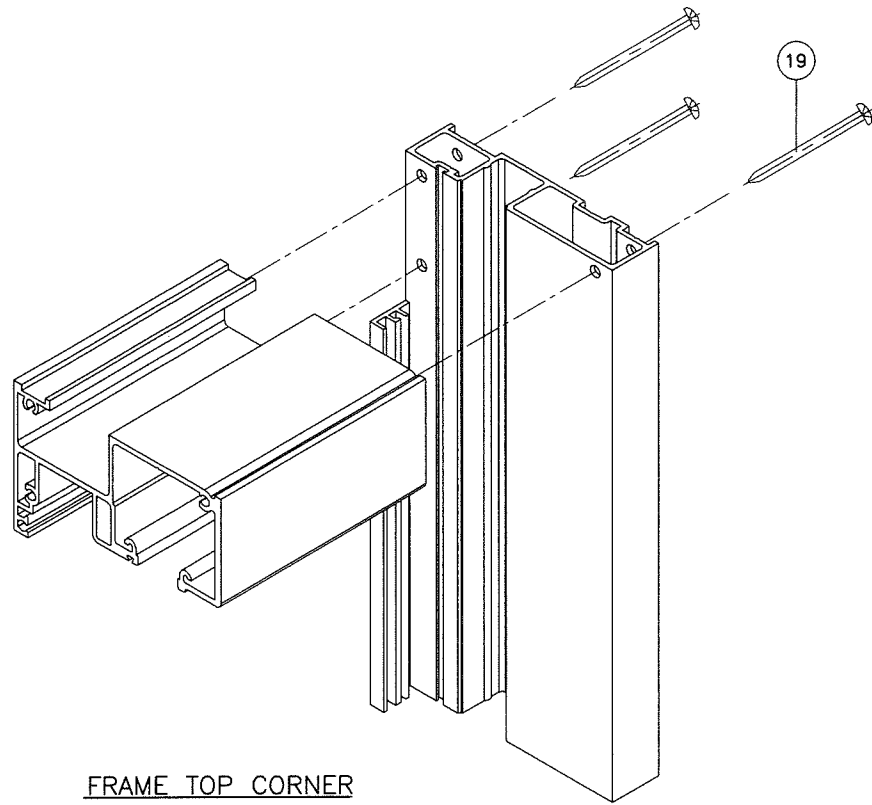
**af c**  
**AL-FAROOQ CORPORATION**  
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 COMP-ANL\W17-103ECO

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

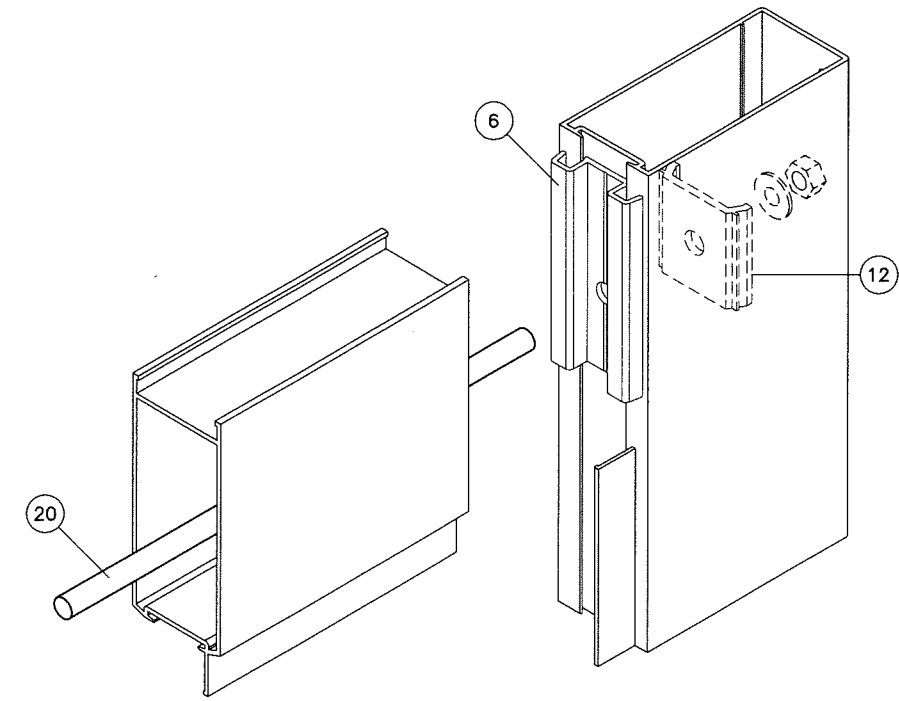
| revisions: |          | no | date | by | description           |
|------------|----------|----|------|----|-----------------------|
| A          | 05.17.18 |    |      |    | REV. PER RER COMMENTS |
|            |          |    |      |    |                       |
|            |          |    |      |    |                       |
|            |          |    |      |    |                       |

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

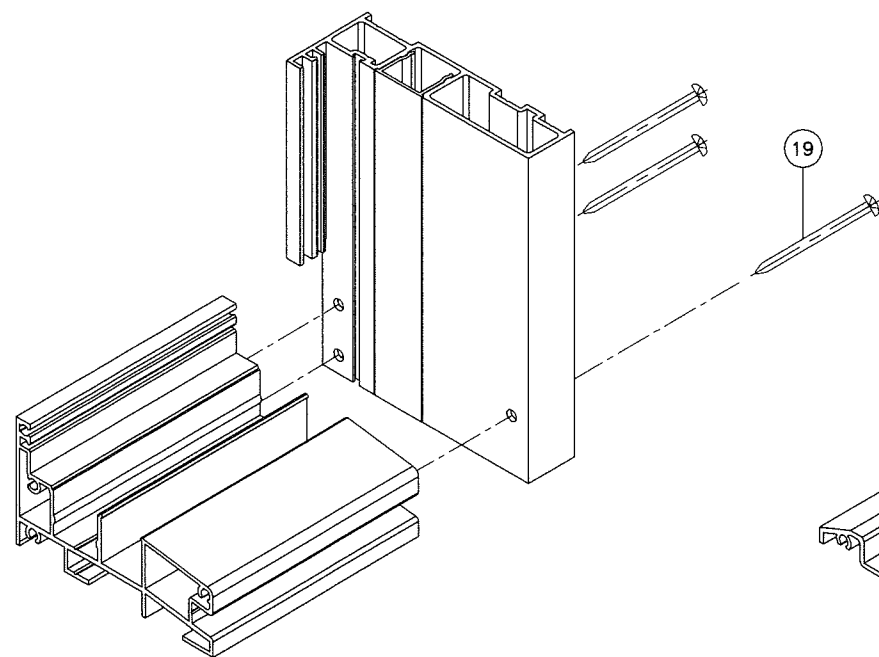
drawing no.  
**W17-103**  
 sheet 10 of 11



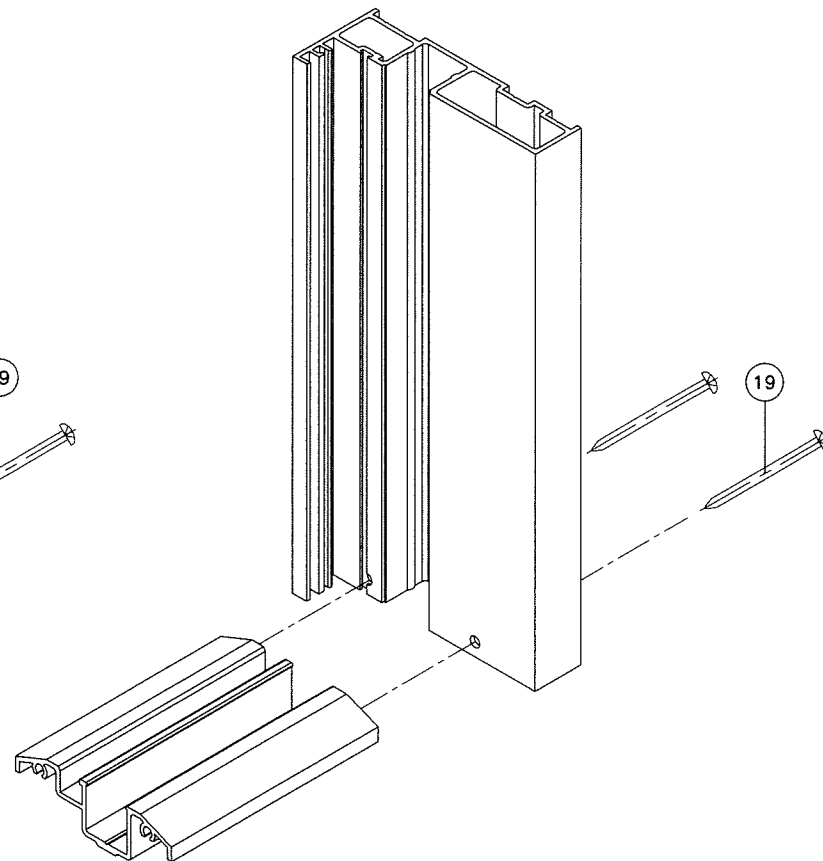
FRAME TOP CORNER



PANEL CORNER



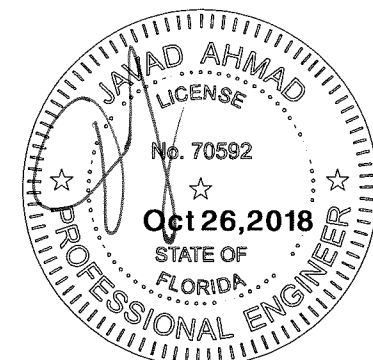
FRAME BOTTOM CORNER  
STANDARD TRACK



FRAME BOTTOM CORNER  
LOW PROFILE TRACK

Approved as complying with the  
Florida Building Code  
Date 11/08/2018  
NOA# 17-1218.13  
Miami Dade Product Control

By [Signature]



**afc**  
**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 \ 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 |      |    | NO CHANGE THIS SHEET |
|            |   |          |      |    |                      |
|            |   |          |      |    |                      |
|            |   |          |      |    |                      |

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

drawing no.  
**W17-103**  
sheet 11 of 11