

FLORIDA DEPARTMENT OF  
**Business & Professional Regulation**



[DBPR HOME](#) | [ABOUT DBPR](#) | [DBPR DIVISIONS](#) | [CONTACT DBPR](#)

[BCIS Home](#) | [Log In](#) | [User Registration](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [Contact Us](#) | [BCIS Site Map](#) | [Links](#) | [Search](#)



**Product Approval**  
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

► OFFICE OF THE  
SECRETARY

|                                                                        |                                                                                                                                                                     |                    |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| FL #                                                                   | FL47219-R0                                                                                                                                                          |                    |
| Application Type                                                       | New                                                                                                                                                                 |                    |
| Code Version                                                           | 2023                                                                                                                                                                |                    |
| Application Status                                                     | Approved                                                                                                                                                            |                    |
| Comments                                                               |                                                                                                                                                                     |                    |
| Archived                                                               | <input type="checkbox"/>                                                                                                                                            |                    |
| Product Manufacturer                                                   | Eco Window Systems                                                                                                                                                  |                    |
| Address/Phone/Email                                                    | 8502 NW 80th Street<br>Suite 103<br>Medley, FL 33166<br>(305) 885-5299<br>carlos.martinez@ecowindowsystems.com                                                      |                    |
| Authorized Signature                                                   | Carlos Martinez<br>carlos.martinez@ecowindowsystems.com                                                                                                             |                    |
| Technical Representative                                               |                                                                                                                                                                     |                    |
| Address/Phone/Email                                                    |                                                                                                                                                                     |                    |
| Quality Assurance Representative                                       |                                                                                                                                                                     |                    |
| Address/Phone/Email                                                    |                                                                                                                                                                     |                    |
| Category                                                               | Exterior Doors                                                                                                                                                      |                    |
| Subcategory                                                            | Swinging Exterior Door Assemblies                                                                                                                                   |                    |
| Compliance Method                                                      | Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer<br><input type="checkbox"/> Evaluation Report - Hardcopy Received |                    |
| Florida Engineer or Architect Name who developed the Evaluation Report | Javad Ahmad                                                                                                                                                         |                    |
| Florida License                                                        | PE-70592                                                                                                                                                            |                    |
| Quality Assurance Entity                                               | Keystone Certifications, Inc.                                                                                                                                       |                    |
| Quality Assurance Contract Expiration Date                             | 12/31/2032                                                                                                                                                          |                    |
| Validated By                                                           | Ammad Riaz, P.E.<br><input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received                                                                    |                    |
| Certificate of Independence                                            | <a href="#">FL47219_R0_COI_Certificate_of_Independence_JA-PE.pdf</a>                                                                                                |                    |
| Referenced Standard and Year (of Standard)                             | <b><u>Standard</u></b>                                                                                                                                              | <b><u>Year</u></b> |
|                                                                        | TAS 201                                                                                                                                                             | 1994               |
|                                                                        | TAS 202                                                                                                                                                             | 1994               |
|                                                                        | TAS 203                                                                                                                                                             | 1994               |
| Equivalence of Product Standards Certified By                          |                                                                                                                                                                     |                    |
| Sections from the Code                                                 |                                                                                                                                                                     |                    |

Product Approval Method

Method 1 Option D

|                           |            |
|---------------------------|------------|
| Date Submitted            | 12/20/2024 |
| Date Validated            | 12/31/2024 |
| Date Pending FBC Approval | 01/01/2025 |
| Date Approved             | 02/11/2025 |
| Date Revised              | 04/21/2025 |

Summary of Products

| FL #                                                                                                                                                                                                                                                                                                                                    | Model, Number or Name           | Description                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 47219.1                                                                                                                                                                                                                                                                                                                                 | ECO-NOVO Series 675 French Door | Large and Small Missile Impact Resistant French Door and Sidelite                                                                                                                                                                                                                                                                                            |
| <b>Limits of Use</b><br><b>Approved for use in HVHZ:</b> Yes<br><b>Approved for use outside HVHZ:</b> Yes<br><b>Impact Resistant:</b> Yes<br><b>Design Pressure:</b> +70/-70<br><b>Other:</b> Please see enclosed documents for product performance information, maximum sizes, anchorage details, anchor type and spacing information. |                                 | <b>Installation Instructions</b><br><a href="#">FL47219_R0_II ECO-NOVO SERIES 675 FRENCH DOOR-JA-2042-24-SS1.pdf</a><br>Verified By: Javad Ahmad PE-70592<br>Created by Independent Third Party: Yes<br><b>Evaluation Reports</b><br><a href="#">FL47219_R0_AE ECO-NOVO Series 675 French Door-PA_EVR-SS1.pdf</a><br>Created by Independent Third Party: Yes |

[Back](#)

[Next](#)

[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

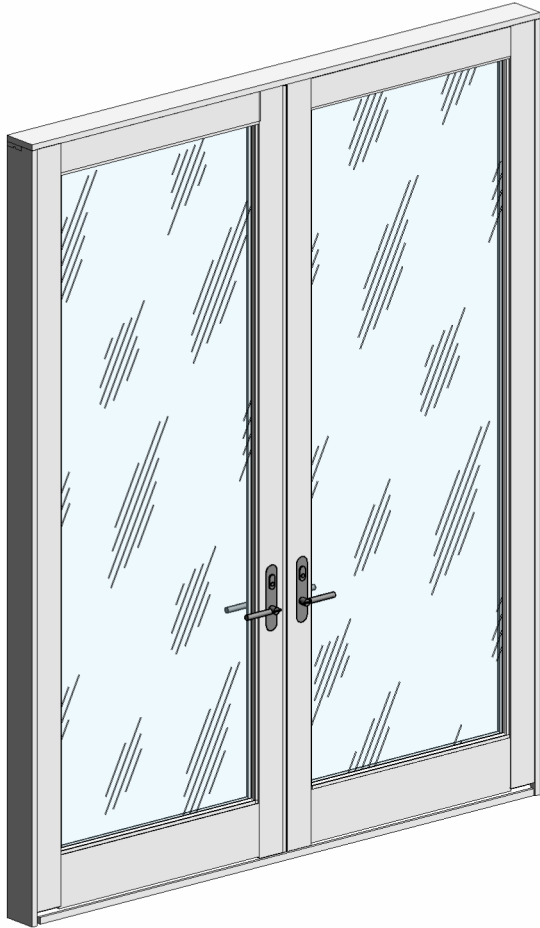
The State of Florida is an AA/EEO employer. [Copyright 2007-2013 State of Florida](#). :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. \*Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

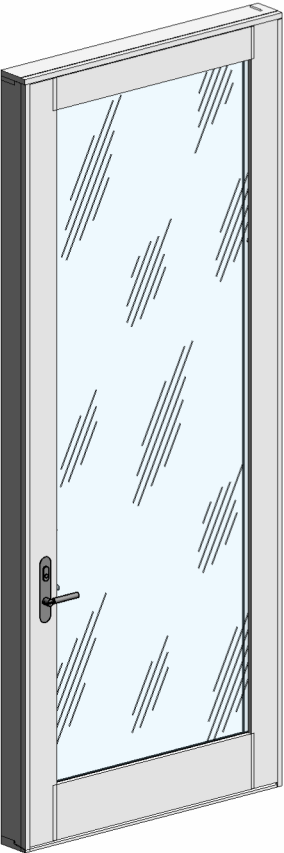
Product Approval Accepts:



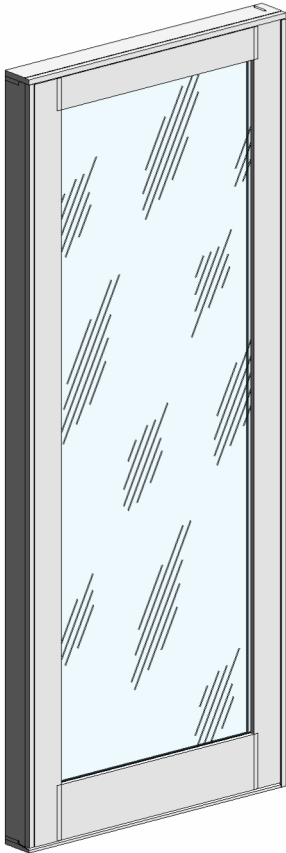
| SHEET INDEX |                                         |
|-------------|-----------------------------------------|
| 101         | COVER PAGE                              |
| 102         | TYPICAL ELEVATION AND ANCHOR DETAILS    |
| 103         | GLAZING DETAILS                         |
| 104         | LOADING CHARTS - DOUBLE DOOR            |
| 105         | LOADING CHARTS - SINGLE DOOR            |
| 106         | LOADING CHARTS -SIDELITE                |
| 107         | MULLION CAPACITY CHARTS SIDELITE & DOOR |
| 108         | SECTIONAL DETAILS                       |
| 109         | SECTIONAL DETAILS                       |
| 110         | INTERMEDIATE MULLION DETAILS            |
| 111         | INTERMEDIATE MULLION DETAIL 2           |
| 112         | LOCKING TILE DETAILS                    |
| 113         | ANCHORAGE DETAILS                       |
| 114         | PARTS & PARTS LIST                      |
| 115         | PARTS & PARTS LIST                      |
| 116         | BILL OF MATERIALS                       |
| 117         | CORNER ASSEMBLY DETAILS                 |



DOUBLE DOOR (XX)



SINGLE DOOR (X)



SIDELITE (O)

ECO WINDOW SYSTEMS, LLC  
ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)

FL#47219.1



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

| drawing no. | JA-2042-24 | drawn by: | BS                     |
|-------------|------------|-----------|------------------------|
| date:       | 12-27-2024 | check by: | SJ                     |
| REVISION    |            |           |                        |
| No.         | DATE       | BY        | DESCRIPTION            |
| 1           | 12-27-2024 | AK        | UPDATE AS DBPR COMMENT |
|             |            |           |                        |
|             |            |           |                        |

GENERAL NOTES

- THIS SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PER TAS 201 / 202/203
- GLASS CAPACITIES FOUND IN THE CHARTS HEREIN THIS CERTIFICATION ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS)
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- PRESSURES PROVIDED IN THE CERTIFICATION ARE THE BASED ON THE ALLOWABLE STRESS DESIGN METHOD(ASD).
- THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH THE STANDARDS IN NOTE 1 OF THE GENERAL NOTES AND 15 LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE IMPACT RESISTANT SHUTTERS.
- INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd = 1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.
- FASTENERS DESCRIBED IN THIS CERTIFICATION ARE PERMITTED TO BE SUBSTITUTE PROVIDED THE STRENGTH OF THE ALTERNATIVE ANCHOR IS EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED ANCHOR. FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE BY OTHERS.
- WOOD SCREWS REFERENCED IN THIS CERTIFICATION SHALL BE GRADE 2 MIN (Fu = 74,000 PSI).
- FASTENERS SHALL BE CADMIUM PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3 OF THE CURRENT CODE BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- 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
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).

INSTRUCTIONS: (CLICK ON THE BUTTON ON THE RIGHT TO DIRECTLY REACH THE DETAIL)

STEP 1 - WIND PRESSURE CALCULATION (BY OTHERS)-  
DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 SIZE AND CAPACITY SELECTION  
SEE SHEET **104** FOR DESIGN LOAD CAPACITY OF DOUBLE DOORS. [CLICK HERE](#)  
SEE SHEET **105** FOR DESIGN LOAD CAPACITY OF SINGLE DOORS. [CLICK HERE](#)  
SEE SHEET **106** FOR DESIGN LOAD CAPACITY OF SIDELITES. [CLICK HERE](#)  
SEE SHEET **107** FOR DESIGN LOAD CAPACITY OF MULLIONS FOR SINGLE AND DOUBLE DOORS WITH SIDELITES [CLICK HERE](#)

SIZE. THIS VALUE SHOULD MEET OR EXCEED THE DESIGN WIND LOAD REQUIREMENT OBTAINED IN STEP 1 ABOVE.

- STEP 3 ANCHOR SELECTION
- SELECT APPROPRIATE ANCHOR FROM SHEET **113**. [CLICK HERE](#)
  - ANCHORAGE DETAILS- FOR VARIOUS SUBSTRATES- SEE SHEET **102** AND **113**. [CLICK HERE](#)

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS WITH OR WITHOUT SIDELITES. SIDE LITES CAN BE ON ONE OF BOTH SIDES OF DOOR.

ECO-NOVO SERIES : 675 FRENCH DOOR

(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC  
5802 N.W. 80th St., MEDLEY, FL 33166  
TEL: (305) 885-5299 FAX: (305) 885-5902



SEALED: 12/27/2024



JAVAD AHMAD PE, inc

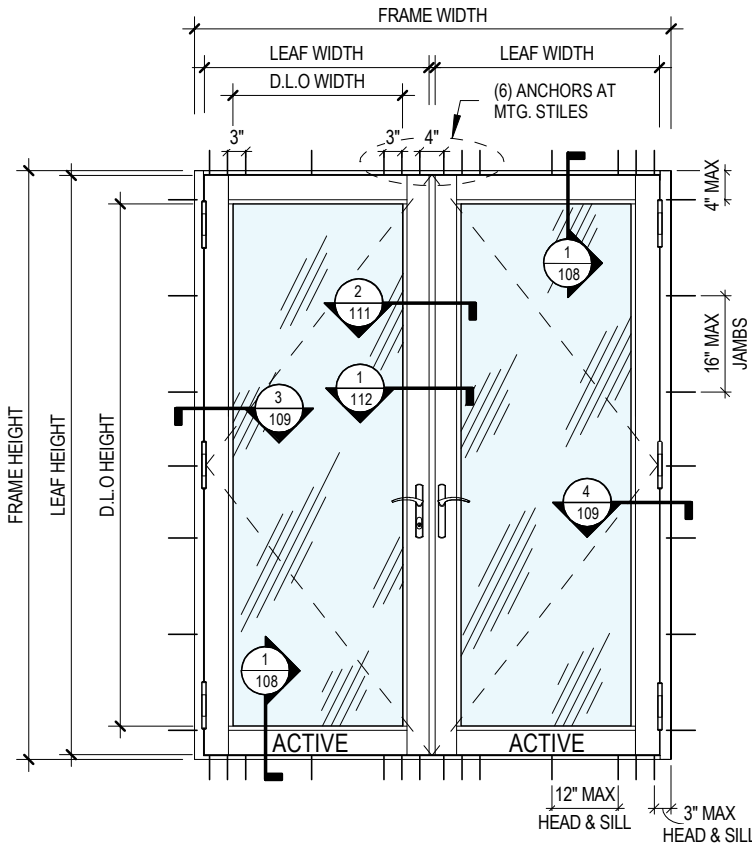
7875 NW 12th St., Suite 102  
Doral, FL 33126

Ph: (305) 424-8001

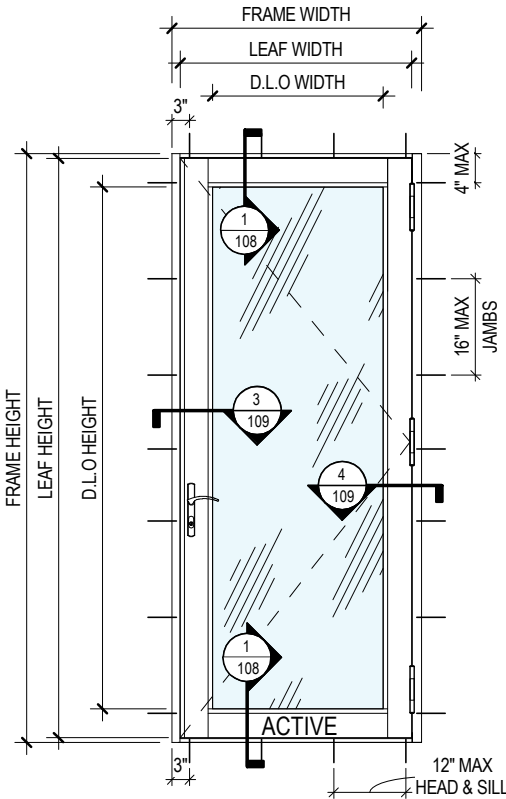
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

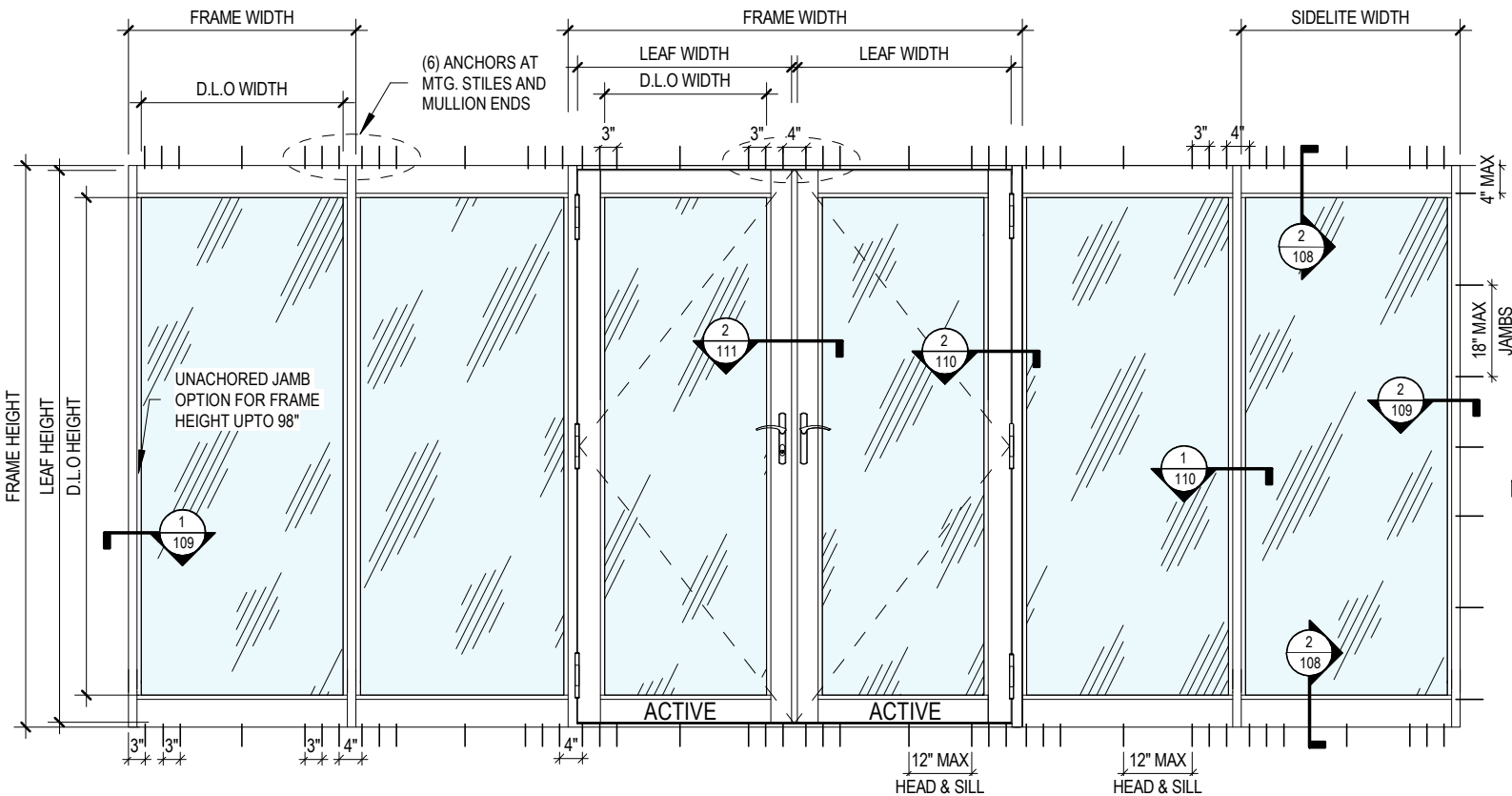
- NOTE:
- 1. FLUSH BOLTS ARE CONCEALED ON ACTIVE LEAF.
  - 2. ANCHORING SHOWN IS TYPICAL FOR ALL SIDELITE AND DOOR COMBINATIONS.(SEE SHEET FOR OTHER COMBINATIONS) AND ANCHOR TYPE ON SHEET 113
  - 3. FOR LOCK OPTION SEE SHEET
  - 4. (3) HINGE OPTION FOR DOOR HEIGHT UPTO 98"  
(4) HINGE FOR DOOR HEIGHT 98" TO 120".
  - 5. SEE TABLE ON SHEET 104 & 105 FOR DOOR CAPACITIES
  - 6. SEE TABLE ON SHEET 106 FOR SIDELITE CAPACITIES.
  - 7. SEE TABLE ON SHEET 107 FOR SIDELITE- SIDELITE & SIDELITE-DOOR MULLION CAPACITIES.



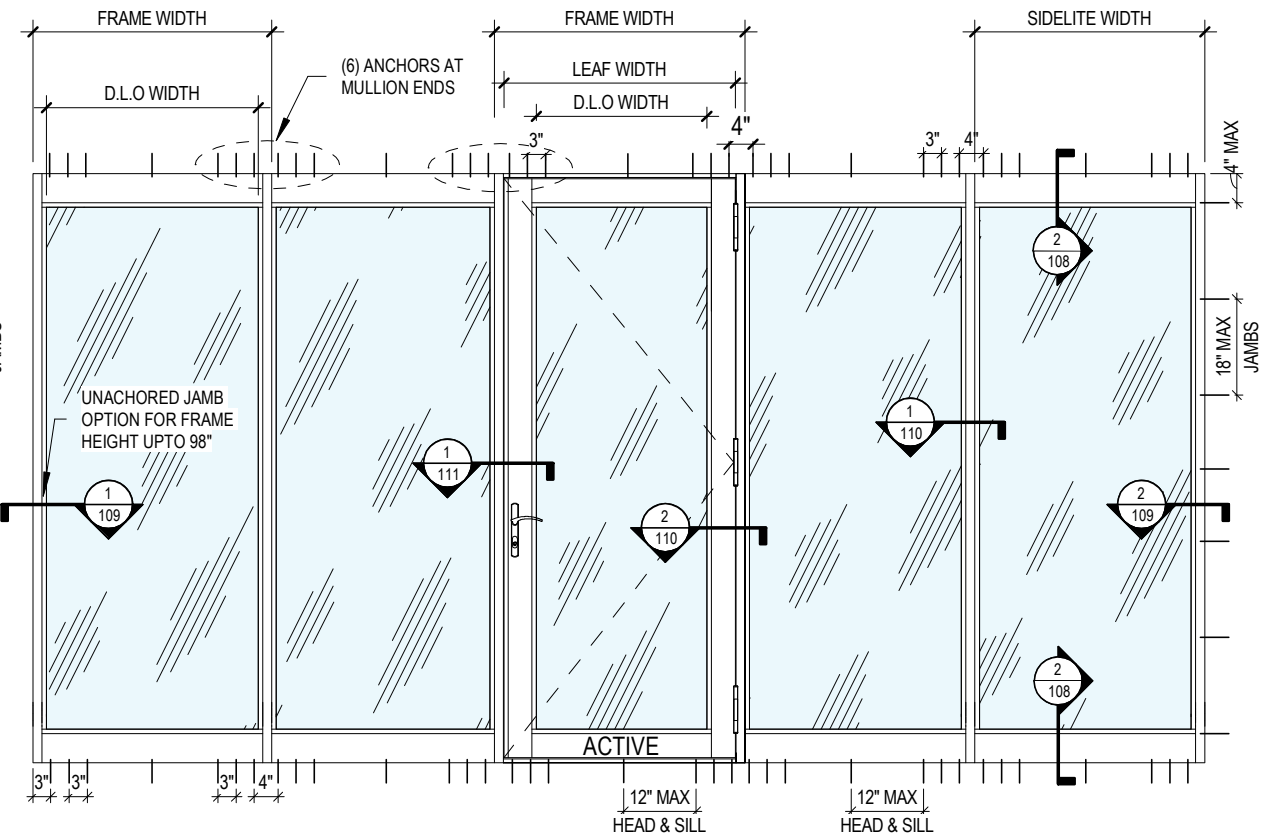
(XX)  
OPTION



(X)  
OPTION



(OOXXOO)  
OPTION



(OOXOO)  
OPTION

|             |            |           |                            |
|-------------|------------|-----------|----------------------------|
| drawing no. | BS         | drawn by: | SJ                         |
| date:       | JA-2042-24 | check by: |                            |
|             | 12-27-2024 |           |                            |
| REVISION    |            |           |                            |
| No.         | DATE       | BY        | DESCRIPTION                |
| 1           | 12-27-2024 | AK        | UPDATE AS PER DBPR COMMENT |

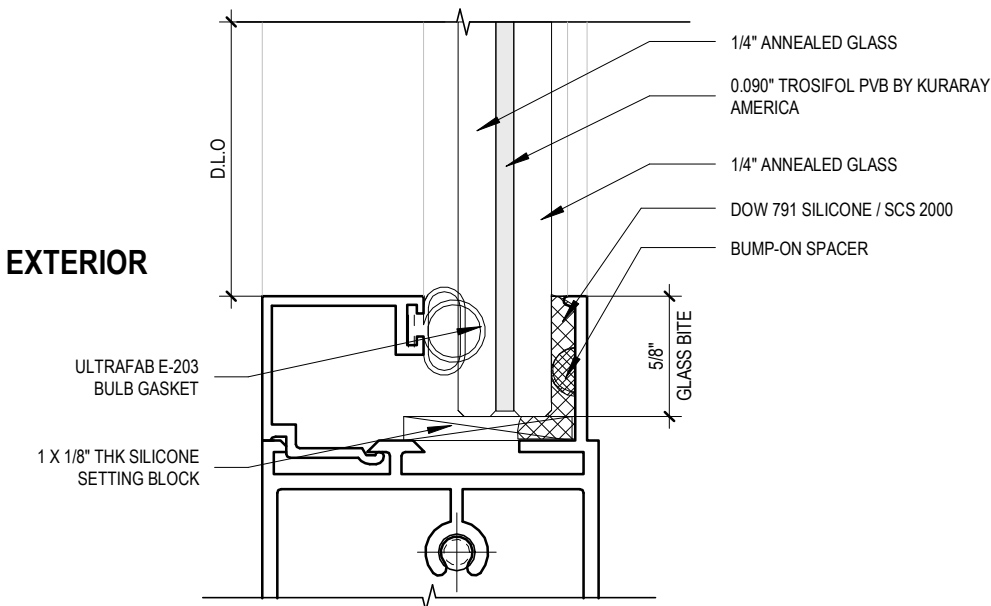
ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



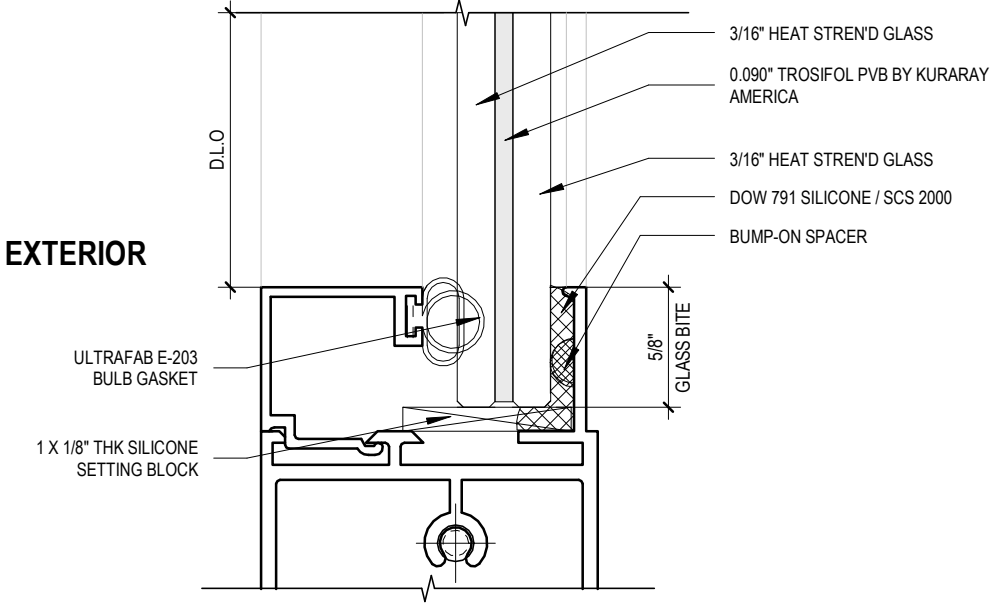
ECO WINDOW SYSTEMS, LLC  
8802 N.W. 80th ST. MEDLEY, FL 33166  
TEL: (305) 885-5299 FAX: (305) 885-5902



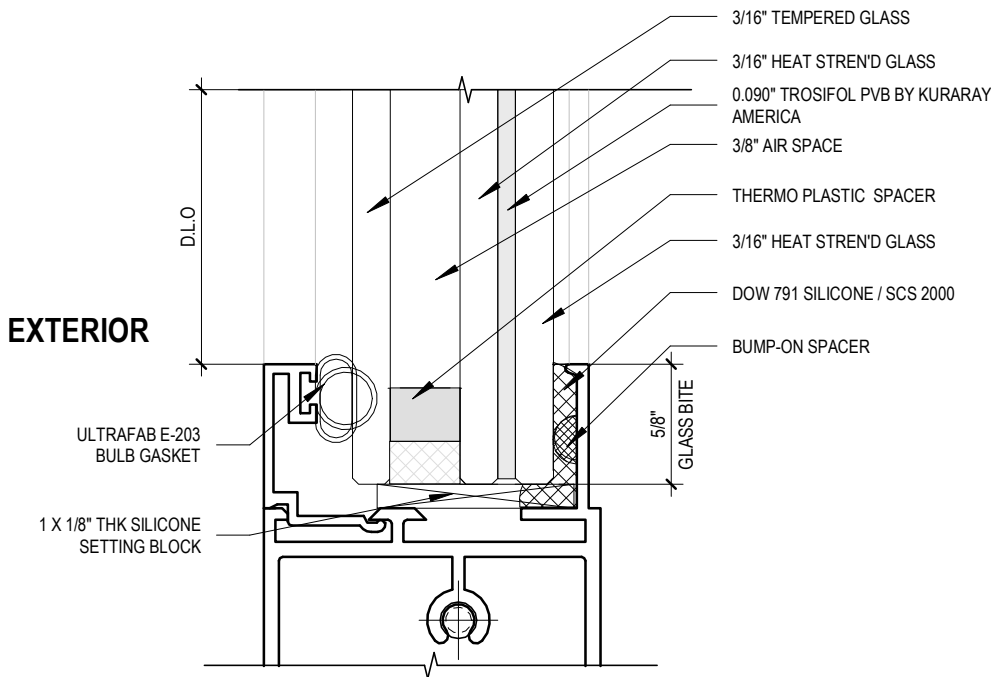
SEALED: 12/27/2024



1  
103 GLAZING DETAIL (GL-1)  
12" = 1'-0"



2  
103 GLAZING DETAIL (GL-2)  
12" = 1'-0"



3  
103 GLAZING DETAIL (GL-3)  
12" = 1'-0"

NOTE:  
1. SEE TABLE ON SHEET FOR GLASS CAPACITIES.



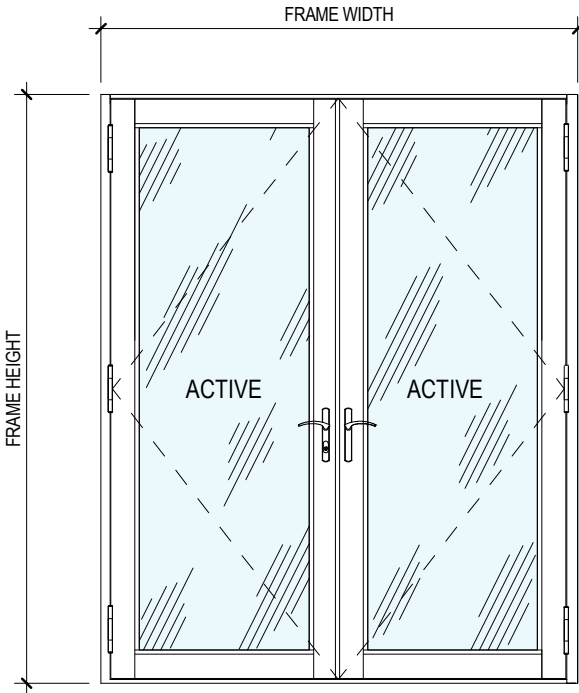
JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

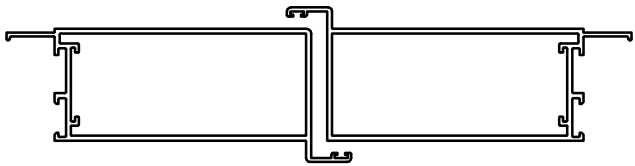
ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



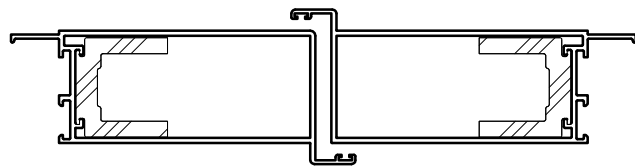
SEALED: 12/27/2024



OPTION "X X"



AST.2



AST.2R

| DESIGN LOAD CAPACITY OF DOUBLE DOOR - PSF (GLASS, ASTRAGAL AND HARDWARE OPTIONS) |                    |             |          |          |          |          |          |                 |          |                     |          |            |          |            |          |
|----------------------------------------------------------------------------------|--------------------|-------------|----------|----------|----------|----------|----------|-----------------|----------|---------------------|----------|------------|----------|------------|----------|
| FRAME HEIGHT INCHES                                                              | FRAME WIDTH INCHES | GLASS TYPES |          |          |          |          |          | ASTRAGAL        |          |                     |          | LOCKS      |          |            |          |
|                                                                                  |                    | GL-1        |          | GL-2     |          | GL-3     |          | AST.2(STANDARD) |          | AST.2R(REINFORCE D) |          | OPTION '1' |          | OPTION '2' |          |
|                                                                                  |                    | EXT. (+)    | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) | EXT. (+)        | INT. (-) | EXT. (+)            | INT. (-) | EXT. (+)   | INT. (-) | EXT. (+)   | INT. (-) |
| 120                                                                              | 79                 | 55          | 55       | 55       | 55       | 55       | 55       | -               | -        | 55                  | 55       | -          | -        | 55         | 55       |
| 116                                                                              |                    | 58          | 58       | 58       | 58       | 58       | 58       | -               | -        | 58                  | 58       | -          | -        | 58         | 58       |
| 110                                                                              |                    | 61          | 61       | 61       | 61       | 61       | 61       | -               | -        | 61                  | 61       | -          | -        | 61         | 61       |
| 104                                                                              |                    | 64          | 64       | 64       | 64       | 64       | 64       | -               | -        | 64                  | 64       | -          | -        | 64         | 64       |
| 98                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 92                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 86                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 80                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 120                                                                              | 75                 | 55          | 55       | 55       | 55       | 55       | 55       | -               | -        | 55                  | 55       | -          | -        | 55         | 55       |
| 116                                                                              |                    | 58          | 58       | 58       | 58       | 58       | 58       | -               | -        | 58                  | 58       | -          | -        | 58         | 58       |
| 110                                                                              |                    | 61          | 61       | 61       | 61       | 61       | 61       | -               | -        | 61                  | 61       | -          | -        | 61         | 61       |
| 104                                                                              |                    | 64          | 64       | 64       | 64       | 64       | 64       | -               | -        | 64                  | 64       | -          | -        | 64         | 64       |
| 98                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 92                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 86                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 80                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 120                                                                              | 71                 | 55          | 55       | 55       | 55       | 55       | 55       | -               | -        | 55                  | 55       | -          | -        | 55         | 55       |
| 116                                                                              |                    | 58          | 58       | 58       | 58       | 58       | 58       | -               | -        | 58                  | 58       | -          | -        | 58         | 58       |
| 110                                                                              |                    | 61          | 61       | 61       | 61       | 61       | 61       | -               | -        | 61                  | 61       | -          | -        | 61         | 61       |
| 104                                                                              |                    | 64          | 64       | 64       | 64       | 64       | 64       | -               | -        | 64                  | 64       | -          | -        | 64         | 64       |
| 98                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 92                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 86                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 80                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 120                                                                              | 67                 | 55          | 55       | 55       | 55       | 55       | 55       | -               | -        | 55                  | 55       | -          | -        | 55         | 55       |
| 116                                                                              |                    | 58          | 58       | 58       | 58       | 58       | 58       | -               | -        | 58                  | 58       | -          | -        | 58         | 58       |
| 110                                                                              |                    | 61          | 61       | 61       | 61       | 61       | 61       | -               | -        | 61                  | 61       | -          | -        | 61         | 61       |
| 104                                                                              |                    | 64          | 64       | 64       | 64       | 64       | 64       | -               | -        | 64                  | 64       | -          | -        | 64         | 64       |
| 98                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 92                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 86                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |
| 80                                                                               |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                  | 70       | 70         | 70       | 70         | 70       |

D.L OPENINGS:

D.L.O. HEIGHT = FRAME HEIGHT - 11.125"  
(FOR 'X' & 'XX' CONFIGURATION)  
D.L.O. WIDTH = LEAF WIDTH - 9.5" (FOR 'X' & 'XX' CONFIGURATION)

NOTE:

1. LOWEST VALUE FROM OPTIONS AVAILABLE IN CHARTS WILL APPLY TO SYSTEM.
2. DOOR WIDTH AND HEIGHT MUST COMPLY WITH EGRESS REQUIREMENTS PER FBC WHERE REQUIRED.
3. FOR ASTRAGAL DETAILS REFER TO SHEET

LOCKING HARDWARE:

OPTION '1':

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'  
MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE, LOCATED AT 12" FROM TOP AND BOTTOM FASTENED TO LOCK STILE WITH #8 X3/4" FH SMS (2) SCREWS PER BOLT

OPTION '2':

3 POINT LOCK SYSTEM BY 'INTERLOCK USA INC.' AT 39" FROM BOTTOM HANDLE ACTIVATES DEAD BOLT 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) #8-32 X 2" OH MS

HINGES:

OPTION '1' (FOR DOOR HEIGHT UPTO 98")

(3) ALUMINIUM HINGES PER LEAF AT 5" FROM TOP & BOTTOM AND AT MIDSPAN  
FASTENED TO DOOR FRAME AND LEAF WITH #10 X 1" FH SMS  
(6) SCREWS AT FRAME, (5) SCREWS AT LEAF

OPTION '2': (FOR DOOR HEIGHT 98" TO 120")

(4) ALUMINIUM HINGES PER LEAF AT 5" FROM TOP & BOTTOM AND EQUIDISTANCE THEREAFTER  
FASTENED TO DOOR FRAME AND LEAF WITH #10 X 1" FH SMS  
(6) SCREWS AT FRAME, (5) SCREWS AT LEAF



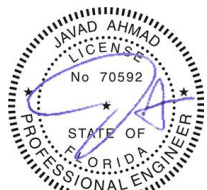
JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

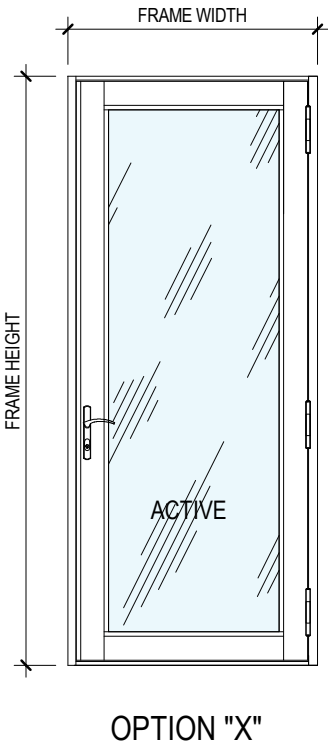
|             |       |            |            |    |    |           |             |             |             |                            |
|-------------|-------|------------|------------|----|----|-----------|-------------|-------------|-------------|----------------------------|
| drawing no. | date: | JA-2042-24 | 12-27-2024 | BS | SJ | drawn by: | check by:   | REVISION    | DESCRIPTION | UPDATE AS PER DBPR COMMENT |
|             |       |            |            |    |    |           |             |             |             |                            |
| No.         | 1     | DATE       | 12-27-2024 | AK | BY | AK        | DESCRIPTION | DESCRIPTION | DESCRIPTION | DESCRIPTION                |

ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)

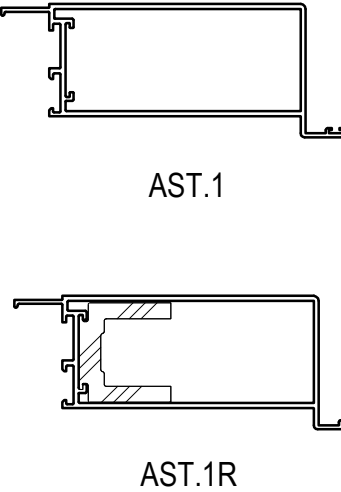
**ECO window systems**  
ECO WINDOW SYSTEMS, LLC  
5802 N.W. 80th ST. MEDLEY, FL 33166  
TEL: (305) 885-5299 FAX: (305) 885-5902



SEALED: 12/27/2024



| DESIGN LOAD CAPACITY OF SINGLE DOOR - PSF (GLASS AND HARDWARE OPTIONS) |                    |             |          |          |          |          |          |                 |          |                    |          |            |          |            |          |
|------------------------------------------------------------------------|--------------------|-------------|----------|----------|----------|----------|----------|-----------------|----------|--------------------|----------|------------|----------|------------|----------|
| FRAME HEIGHT INCHES                                                    | FRAME WIDTH INCHES | GLASS TYPES |          |          |          |          |          | ASTRAGAL        |          |                    |          | LOCKS      |          |            |          |
|                                                                        |                    | GL-1        |          | GL-2     |          | GL-3     |          | AST.1(STANDARD) |          | AST.1R(REINFORCED) |          | OPTION '1' |          | OPTION '2' |          |
|                                                                        |                    | EXT. (+)    | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) | EXT. (+)        | INT. (-) | EXT. (+)           | INT. (-) | EXT. (+)   | INT. (-) | EXT. (+)   | INT. (-) |
| 120                                                                    | 41-1/4             | 55          | 55       | 55       | 55       | 55       | 55       | -               | -        | 55                 | 55       | -          | -        | 55         | 55       |
| 116                                                                    |                    | 58          | 58       | 58       | 58       | 58       | 58       | -               | -        | 58                 | 58       | -          | -        | 58         | 58       |
| 110                                                                    |                    | 61          | 61       | 61       | 61       | 61       | 61       | -               | -        | 61                 | 61       | -          | -        | 61         | 61       |
| 104                                                                    |                    | 64          | 64       | 64       | 64       | 64       | 64       | -               | -        | 64                 | 64       | -          | -        | 64         | 64       |
| 98                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 92                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 86                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 80                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 120                                                                    | 37                 | 55          | 55       | 55       | 55       | 55       | 55       | -               | -        | 55                 | 55       | -          | -        | 55         | 55       |
| 116                                                                    |                    | 58          | 58       | 58       | 58       | 58       | 58       | -               | -        | 58                 | 58       | -          | -        | 58         | 58       |
| 110                                                                    |                    | 61          | 61       | 61       | 61       | 61       | 61       | -               | -        | 61                 | 61       | -          | -        | 61         | 61       |
| 104                                                                    |                    | 64          | 64       | 64       | 64       | 64       | 64       | -               | -        | 64                 | 64       | -          | -        | 64         | 64       |
| 98                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 92                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 86                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 80                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 120                                                                    | 33                 | 55          | 55       | 55       | 55       | 55       | 55       | -               | -        | 55                 | 55       | -          | -        | 55         | 55       |
| 116                                                                    |                    | 58          | 58       | 58       | 58       | 58       | 58       | -               | -        | 58                 | 58       | -          | -        | 58         | 58       |
| 110                                                                    |                    | 61          | 61       | 61       | 61       | 61       | 61       | -               | -        | 61                 | 61       | -          | -        | 61         | 61       |
| 104                                                                    |                    | 64          | 64       | 64       | 64       | 64       | 64       | -               | -        | 64                 | 64       | -          | -        | 64         | 64       |
| 98                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 92                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 86                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |
| 80                                                                     |                    | 70          | 70       | 70       | 70       | 70       | 70       | 70              | 70       | 70                 | 70       | 70         | 70       | 70         | 70       |



D.L OPENINGS:

D.L.O. HEIGHT = FRAME HEIGHT - 11.125" (FOR 'X' & 'XX' CONFIGURATION)  
D.L.O. WIDTH = LEAF WIDTH - 9.5" (FOR 'X' & 'XX' CONFIGURATION)

NOTE:

1. LOWEST VALUE FROM OPTIONS AVAILABLE IN CHARTS WILL APPLY TO SYSTEM.
2. DOOR WIDTH AND HEIGHT MUST COMPLY WITH EGRESS REQUIREMENTS PER FBC WHERE REQUIRED.
3. FOR ASTRAGAL DETAILS REFER TO SHEET

LOCKING HARDWARE:

OPTION '1':

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.' MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE, LOCATED AT 12" FROM TOP AND BOTTOM FASTENED TO LOCK STILE WITH #8 X3/4" FH SMS (2) SCREWS PER BOLT

OPTION '2':

3 POINT LOCK SYSTEM BY 'INTERLOCK USA INC.' AT 39" FROM BOTTOM HANDLE ACTIVATES DEAD BOLT 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) #8-32 X 2" OH MS

HINGES:

OPTION '1' (FOR DOOR HEIGHT UPTO 98")

(3) ALUMINIUM HINGES PER LEAF AT 5" FROM TOP & BOTTOM AND AT MIDSPAN  
FASTENED TO DOOR FRAME AND LEAF WITH #10 X 1" FH SMS  
(6) SCREWS AT FRAME, (5) SCREWS AT LEAF

OPTION '2': (FOR DOOR HEIGHT 98" TO 120")

(4) ALUMINIUM HINGES PER LEAF AT 5" FROM TOP & BOTTOM AND EQUIDISTANCE THEREAFTER  
FASTENED TO DOOR FRAME AND LEAF WITH #10 X 1" FH SMS  
(6) SCREWS AT FRAME, (5) SCREWS AT LEAF



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

|             |            |           |                            |
|-------------|------------|-----------|----------------------------|
| drawing no. | BS         | drawn by: | SJ                         |
| date:       | 12-27-2024 | check by: |                            |
| REVISION    |            |           |                            |
| No.         | DATE       | BY        | DESCRIPTION                |
| 1           | 12-27-2024 | AK        | UPDATE AS PER DBPR COMMENT |
|             |            |           |                            |
|             |            |           |                            |

ECO-NOVO SERIES : 675 FRENCH DOOR

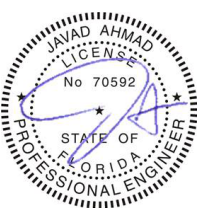
(LARGE AND SMALL MISSILE IMPACT RATED)

ECO window systems

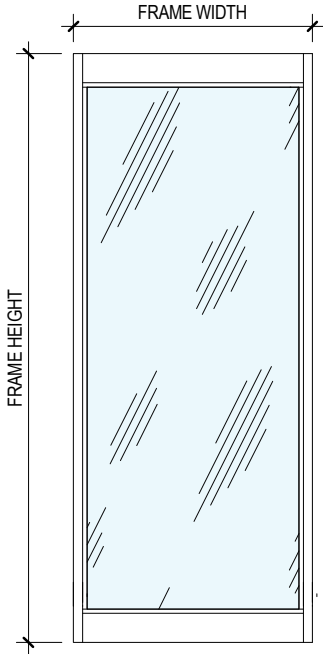
ECO WINDOW SYSTEMS, LLC.

5802 N.W. 80th ST. MEDLEY, FL 33166

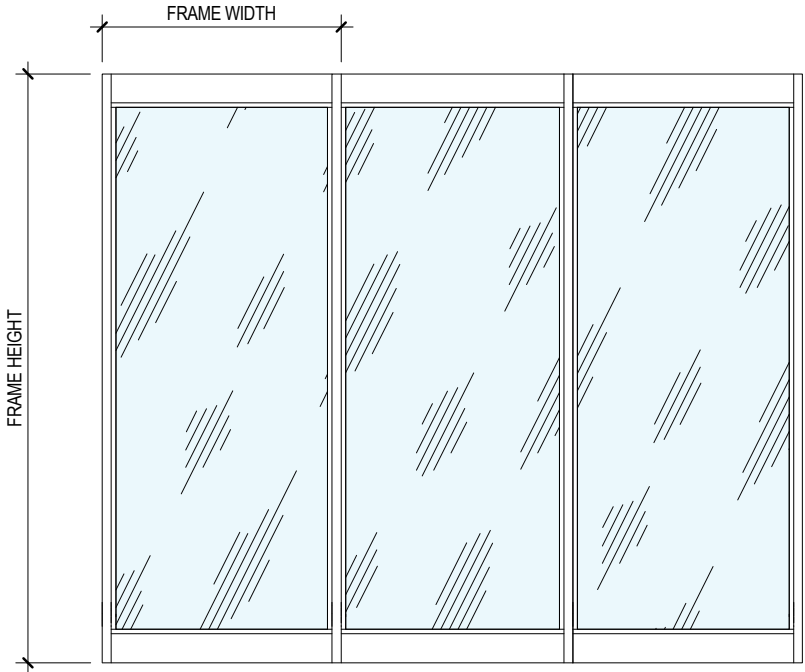
TEL: (305) 885-5299 FAX: (305) 885-5902



SEALED: 12/27/2024



OPTION "O"



OPTION "O O O"

D.L OPENINGS:

D.L.O. HEIGHT = FRAME HEIGHT - 11.125" (FOR ALL 'O' CONFIGURATION)  
D.L.O. WIDTH = FRAME WIDTH - 4.785" (FOR ALL 'O' CONFIGURATION)

| DESIGN LOAD CAPACITY OF SIDELITE - PSF (GLASS ) |                    |             |          |          |          |          |          |
|-------------------------------------------------|--------------------|-------------|----------|----------|----------|----------|----------|
| FRAME HEIGHT INCHES                             | FRAME WIDTH INCHES | GLASS TYPES |          |          |          |          |          |
|                                                 |                    | GL-1        |          | GL-2     |          | GL-3     |          |
|                                                 |                    | EXT. (+)    | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) |
| 120                                             | 40                 | 55          | 55       | 55       | 55       | 55       | 55       |
| 116                                             |                    | 58          | 58       | 58       | 58       | 58       | 58       |
| 110                                             |                    | 61          | 61       | 61       | 61       | 61       | 61       |
| 104                                             |                    | 64          | 64       | 64       | 64       | 64       | 64       |
| 98                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 92                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 86                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 80                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 120                                             | 36                 | 55          | 55       | 55       | 55       | 55       | 55       |
| 116                                             |                    | 58          | 58       | 58       | 58       | 58       | 58       |
| 110                                             |                    | 61          | 61       | 61       | 61       | 61       | 61       |
| 104                                             |                    | 64          | 64       | 64       | 64       | 64       | 64       |
| 98                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 92                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 86                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 80                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 120                                             | 32                 | 55          | 55       | 55       | 55       | 55       | 55       |
| 116                                             |                    | 58          | 58       | 58       | 58       | 58       | 58       |
| 110                                             |                    | 61          | 61       | 61       | 61       | 61       | 61       |
| 104                                             |                    | 64          | 64       | 64       | 64       | 64       | 64       |
| 98                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 92                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 86                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |
| 80                                              |                    | 70          | 70       | 70       | 70       | 70       | 70       |



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

|             |            |           |                            |
|-------------|------------|-----------|----------------------------|
| drawing no. | JA-2042-24 | drawn by: | BS                         |
| date:       | 12-27-2024 | check by: | SJ                         |
| REVISION    |            |           |                            |
| No.         | DATE       | BY        | DESCRIPTION                |
| 1           | 12-27-2024 | AK        | UPDATE AS PER DBPR COMMENT |
|             |            |           |                            |
|             |            |           |                            |

ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)

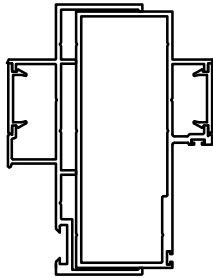
ECO WINDOW SYSTEMS, LLC.  
8802 N.W. 80th ST., MEDLEY, FL 33166  
TEL: (305) 885-5299 FAX: (305) 885-5902



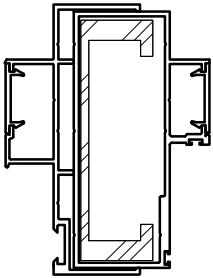
SEALED: 12/27/2024

MULLION CAPACITY CHARTS SIDELITE & DOOR

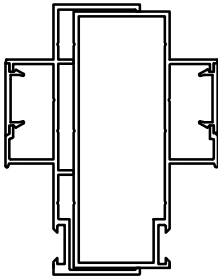
| DESIGN LOAD CAPACITY - PSF (MULLIONS) |                         |                          |          |          |          |                              |          |          |          |
|---------------------------------------|-------------------------|--------------------------|----------|----------|----------|------------------------------|----------|----------|----------|
| FRAME HEIGHT<br>(IN.)                 | SIDELITE WIDTH<br>(IN.) | DOOR TO SIDELITE MULLION |          |          |          | SIDELITE TO SIDELITE MULLION |          |          |          |
|                                       |                         | M1                       |          | M1A      |          | M2                           |          | M2A      |          |
|                                       |                         | EXT. (+)                 | INT. (-) | EXT. (+) | INT. (-) | EXT. (+)                     | INT. (-) | EXT. (+) | INT. (-) |
| 120                                   | 40                      | -                        | -        | 55       | 55       | -                            | -        | -        | -        |
| 116                                   |                         | -                        | -        | 58       | 58       | -                            | -        | -        | -        |
| 110                                   |                         | -                        | -        | 61       | 61       | -                            | -        | -        | -        |
| 104                                   |                         | -                        | -        | 64       | 64       | -                            | -        | -        | -        |
| 98                                    |                         | -                        | -        | 70       | 70       | -                            | -        | -        | -        |
| 92                                    |                         | -                        | -        | 73       | 73       | -                            | -        | -        | -        |
| 86                                    |                         | -                        | -        | 76       | 76       | -                            | -        | -        | -        |
| 80                                    |                         | -                        | -        | 79       | 79       | -                            | -        | -        | -        |
| 120                                   | 38                      | -                        | -        | 55       | 55       | -                            | -        | -        | -        |
| 116                                   |                         | -                        | -        | 58       | 58       | -                            | -        | -        | -        |
| 110                                   |                         | -                        | -        | 61       | 61       | -                            | -        | -        | -        |
| 104                                   |                         | -                        | -        | 64       | 64       | -                            | -        | -        | -        |
| 98                                    |                         | -                        | -        | 70       | 70       | 70                           | 70       | 70       | 70       |
| 92                                    |                         | -                        | -        | 73       | 73       | 70                           | 70       | 70       | 70       |
| 86                                    |                         | -                        | -        | 76       | 76       | 70                           | 70       | 70       | 70       |
| 80                                    |                         | -                        | -        | 79       | 79       | 70                           | 70       | 70       | 70       |
| 120                                   | 36                      | -                        | -        | 55       | 55       | -                            | -        | 50       | 60       |
| 116                                   |                         | -                        | -        | 58       | 58       | -                            | -        | 50       | 60       |
| 110                                   |                         | -                        | -        | 61       | 61       | -                            | -        | 50       | 60       |
| 104                                   |                         | -                        | -        | 64       | 64       | -                            | -        | 50       | 60       |
| 98                                    |                         | 60                       | 60       | 70       | 70       | 70                           | 70       | 70       | 70       |
| 92                                    |                         | 60                       | 60       | 73       | 73       | 70                           | 70       | 70       | 70       |
| 86                                    |                         | 60                       | 60       | 76       | 76       | 70                           | 70       | 70       | 70       |
| 80                                    |                         | 60                       | 60       | 79       | 79       | 70                           | 70       | 70       | 70       |
| 120                                   | 34                      | -                        | -        | 55       | 55       | -                            | -        | 50       | 60       |
| 116                                   |                         | -                        | -        | 58       | 58       | -                            | -        | 50       | 60       |
| 110                                   |                         | -                        | -        | 61       | 61       | -                            | -        | 50       | 60       |
| 104                                   |                         | -                        | -        | 64       | 64       | -                            | -        | 50       | 60       |
| 98                                    |                         | 60                       | 60       | 70       | 70       | 70                           | 70       | 70       | 70       |
| 92                                    |                         | 60                       | 60       | 73       | 73       | 70                           | 70       | 70       | 70       |
| 86                                    |                         | 60                       | 60       | 76       | 76       | 70                           | 70       | 70       | 70       |
| 80                                    |                         | 60                       | 60       | 79       | 79       | 70                           | 70       | 70       | 70       |
| 120                                   | 32                      | -                        | -        | 55       | 55       | -                            | -        | 50       | 60       |
| 116                                   |                         | -                        | -        | 58       | 58       | -                            | -        | 50       | 60       |
| 110                                   |                         | -                        | -        | 61       | 61       | -                            | -        | 50       | 60       |
| 104                                   |                         | -                        | -        | 64       | 64       | -                            | -        | 50       | 60       |
| 98                                    |                         | 60                       | 60       | 70       | 70       | 70                           | 70       | 70       | 70       |
| 92                                    |                         | 60                       | 60       | 73       | 73       | 70                           | 70       | 70       | 70       |
| 86                                    |                         | 60                       | 60       | 76       | 76       | 70                           | 70       | 70       | 70       |
| 80                                    |                         | 60                       | 60       | 79       | 79       | 70                           | 70       | 70       | 70       |



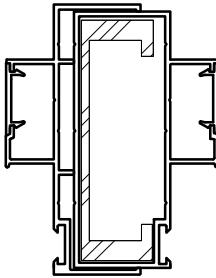
DOOR  
TRANSITION  
MULLION: M1



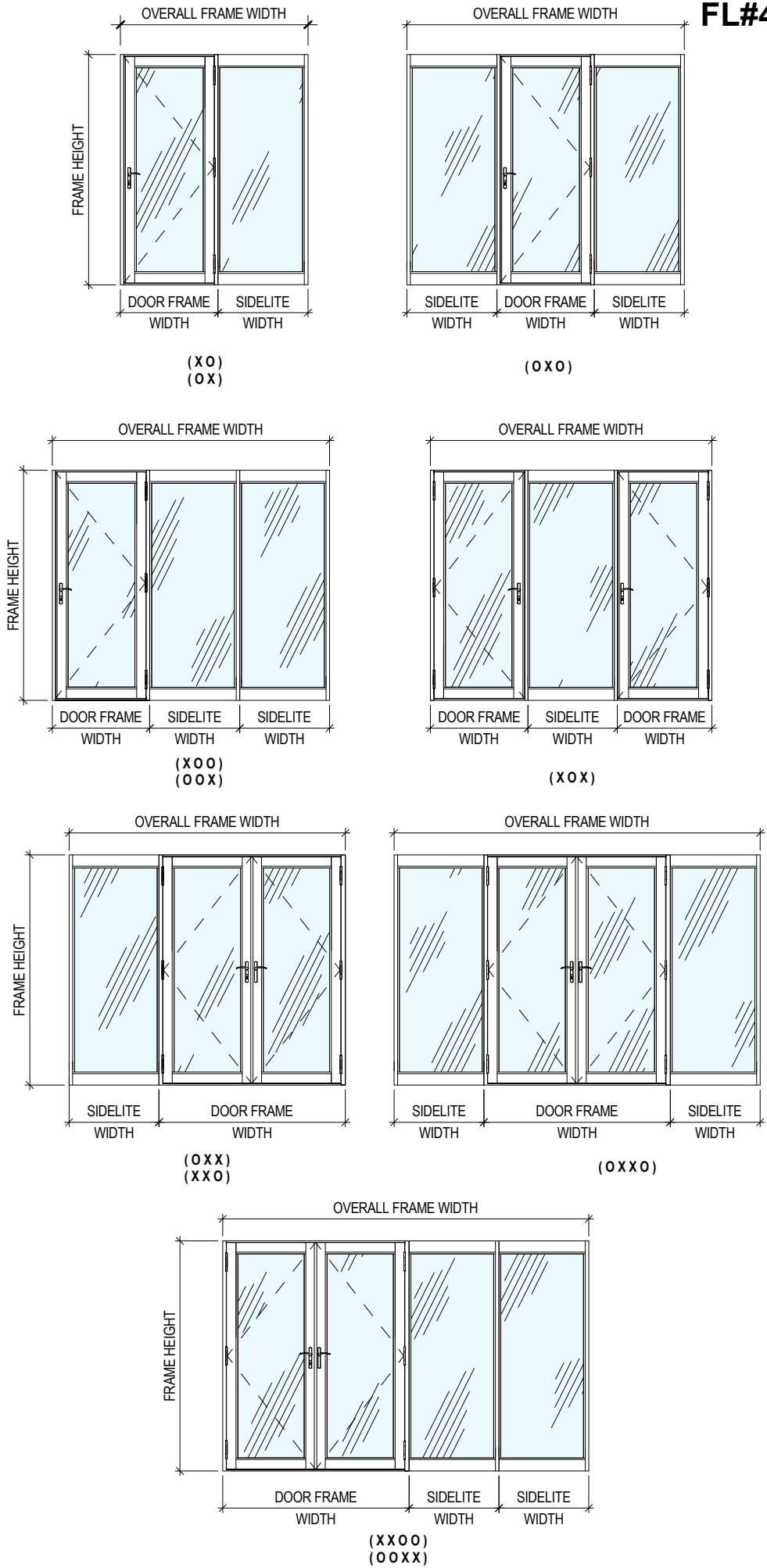
DOOR  
TRANSITION  
MULLION: M1A



SIDELITE  
TRANSITION  
MULLION: M2



SIDELITE  
TRANSITION  
MULLION: M2A



FL#47219.1



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



SEALED: 12/27/2024

## SECTIONAL DETAILS

**FL#47219.1**



**JAVAD AHMAD PE, inc**

7875 NW 12th St., Suite 102  
Doral, FL 33126

Ph: (305) 424-8001

support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

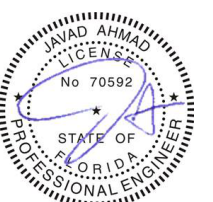
|                 |            |           |                            |
|-----------------|------------|-----------|----------------------------|
| drawing no.     | JA-2042-24 | drawn by: | BS                         |
| date:           | 12-27-2024 | check by: | SJ                         |
| <b>REVISION</b> |            |           |                            |
| No.             | DATE       | BY        | DESCRIPTION                |
| 1               | 12-27-2024 | AK        | UPDATE AS PER DBER COMMENT |
|                 |            |           |                            |
|                 |            |           |                            |
|                 |            |           |                            |

**ECO-NOVO SERIES : 675 FRENCH DOOR**

(LARGE AND SMALL MISSILE IMPACT RATED)



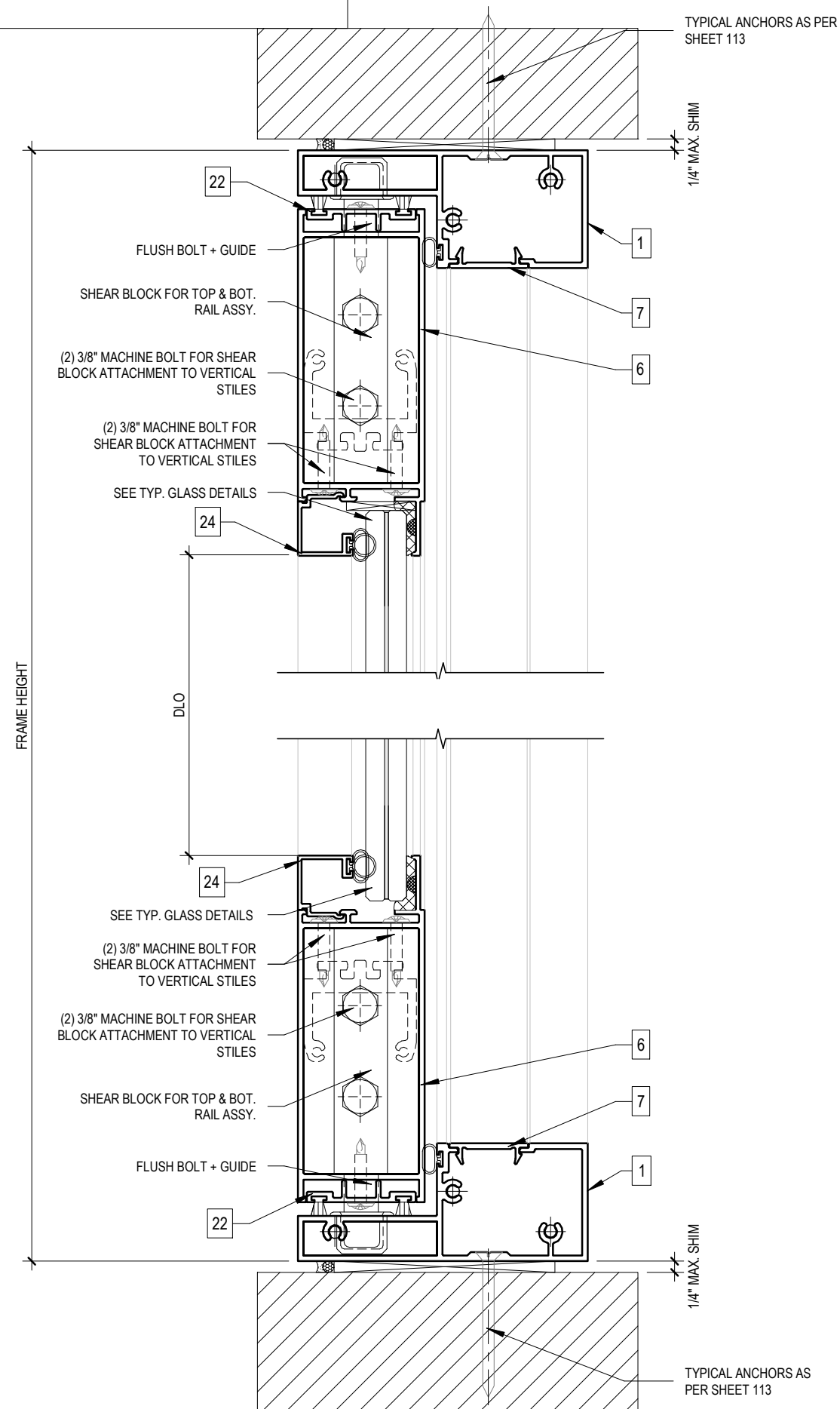
ECO WINDOW SYSTEMS, LLC,  
8502 N.W. 80th ST. MEDLEY, FL 33166  
TEL. (305) 885-5299 FAX. (305) 885-5902



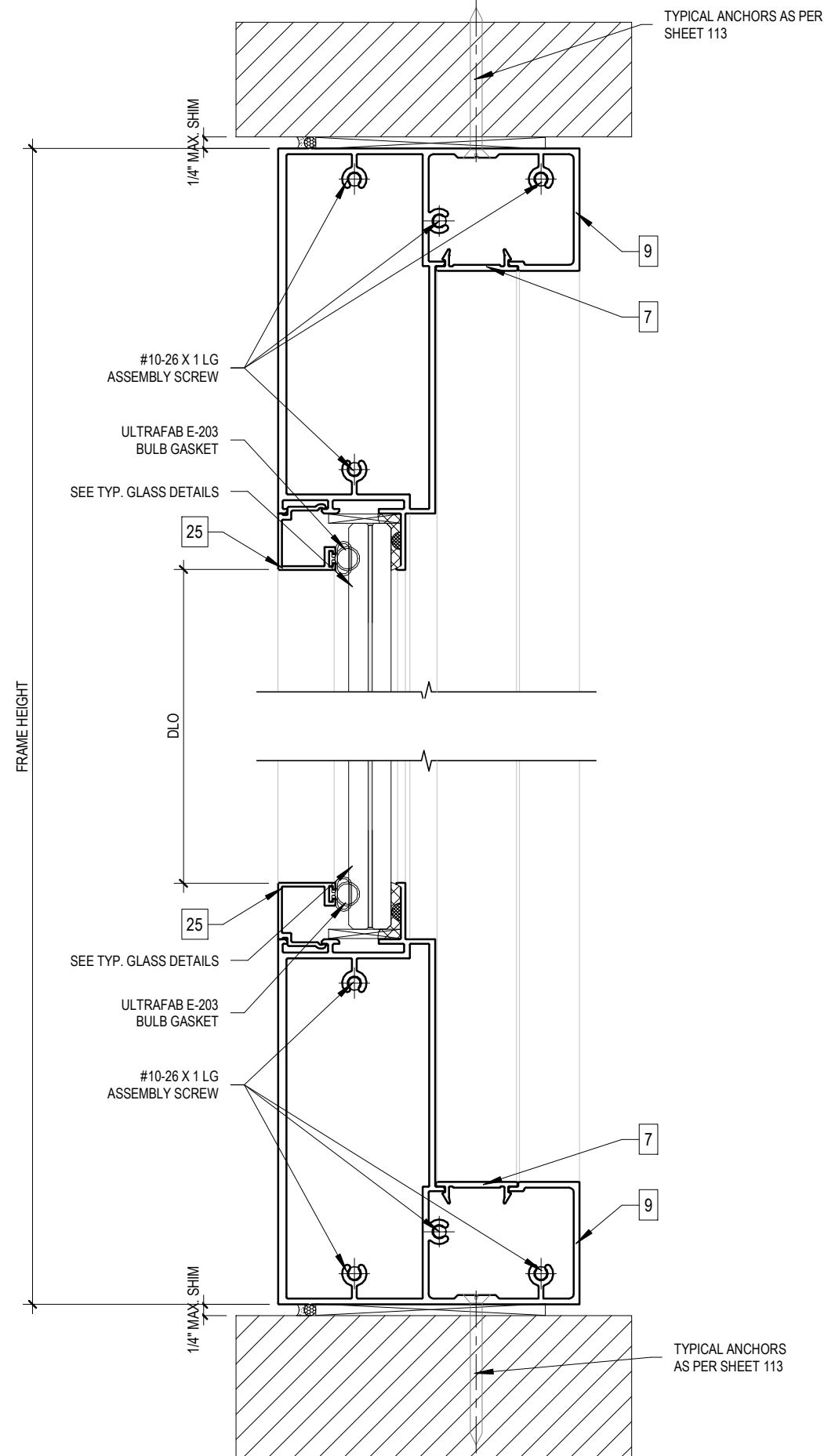
SEALED: 12/27/2024

108

108 OF 117



**DOOR HEAD/SILL**  
6" = 1'-0"



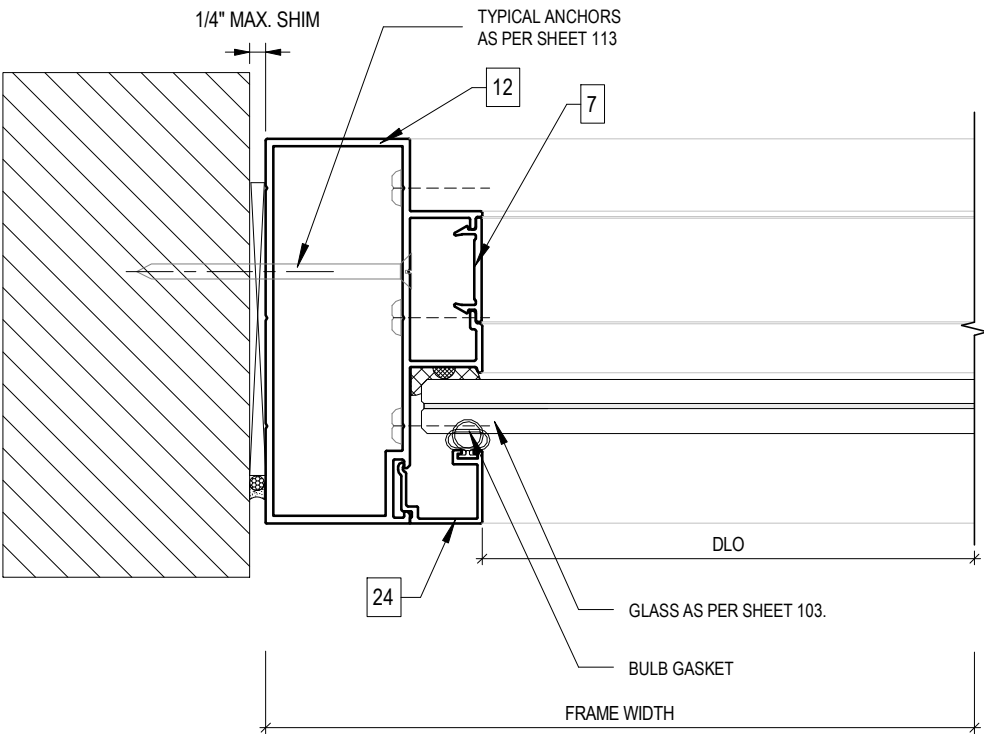
2  
108

**SIDELITE HEAD/SILL DETAIL**

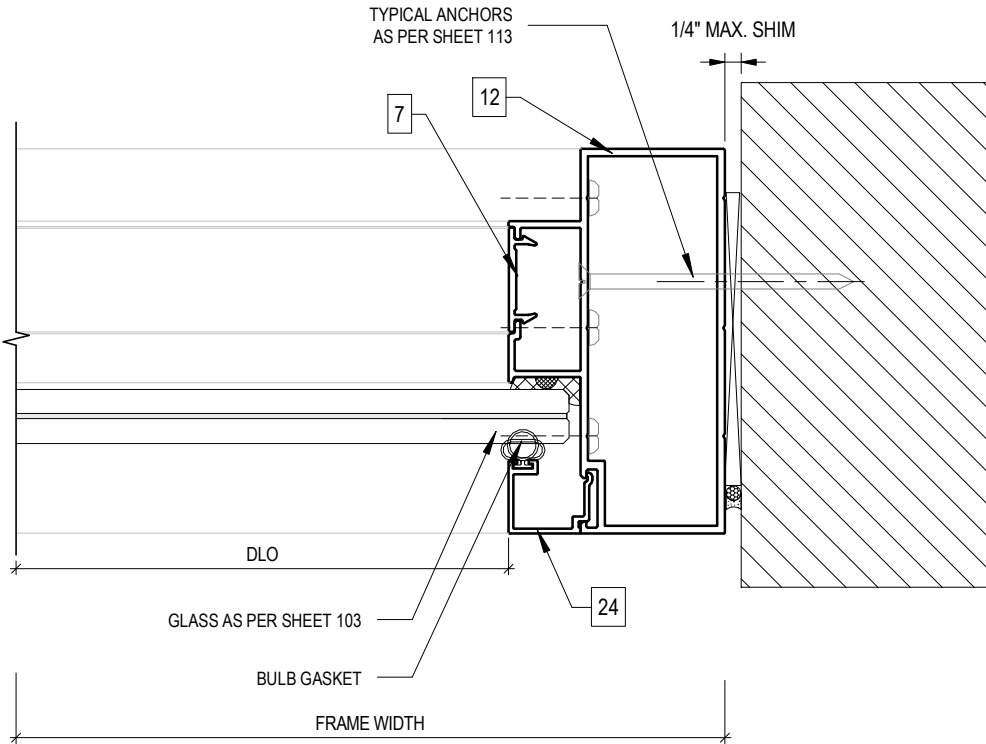
6" = 1'-0"

SECTIONAL DETAILS

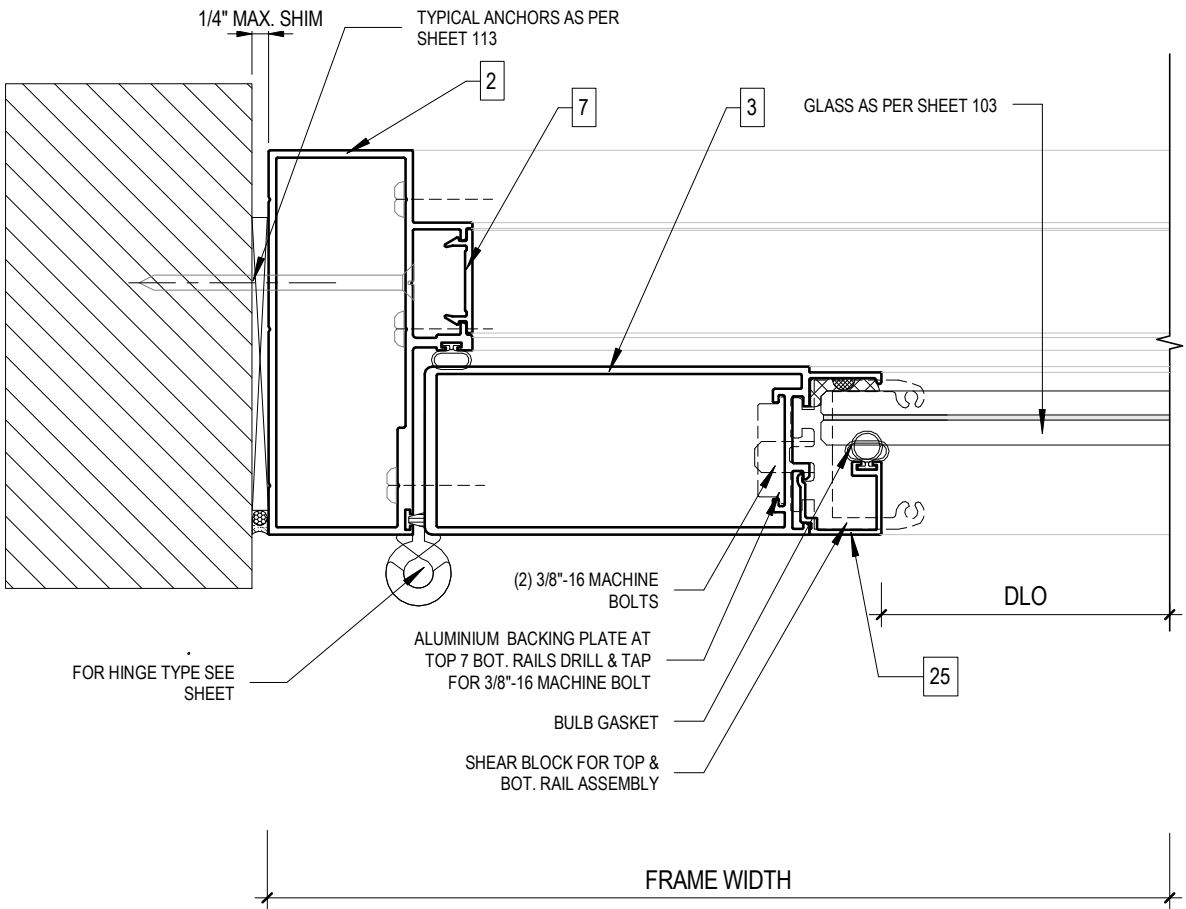
FL#47219.1



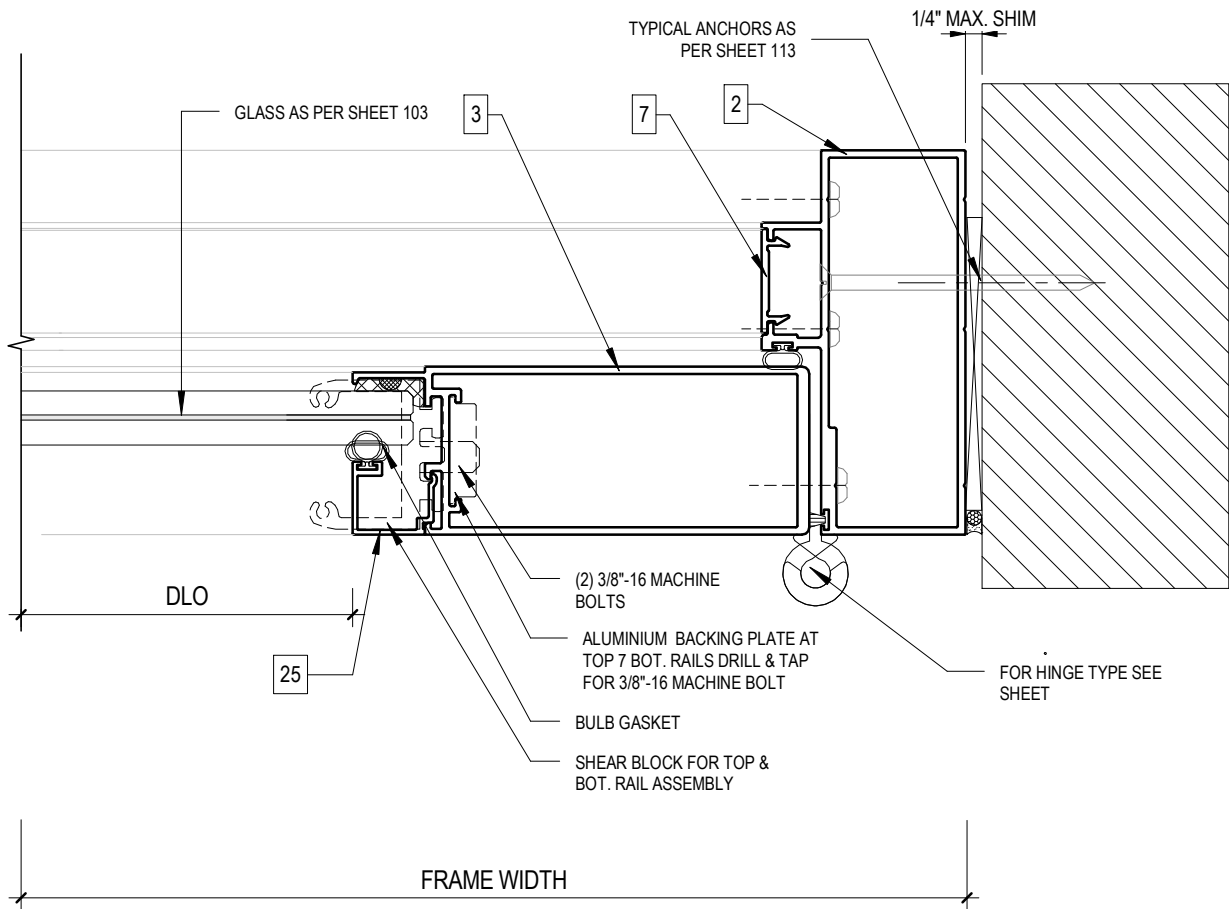
1  
109 SIDELITE JAMB DETAIL 1  
6" = 1'-0"



2  
109 SIDELITE JAMB DETAIL 2  
6" = 1'-0"



3  
109 DOOR HINGED JAMB DETAIL 1  
6" = 1'-0"



4  
109 DOOR HINGED JAMB DETAIL 2  
6" = 1'-0"



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

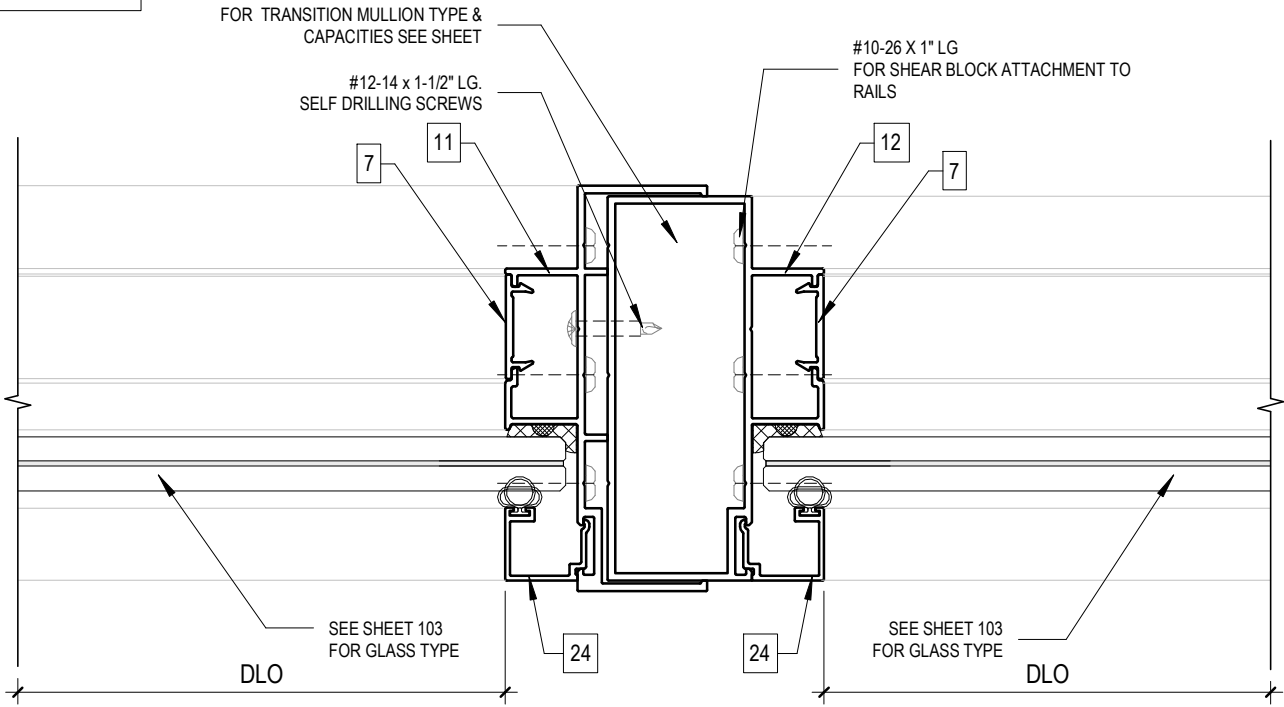
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

|             |            |           |                            |
|-------------|------------|-----------|----------------------------|
| drawing no. | JA-2042-24 | drawn by: | BS                         |
| date:       | 12-27-2024 | check by: | SJ                         |
| REVISION    |            |           |                            |
| No.         | DATE       | BY        | DESCRIPTION                |
| 1           | 12-27-2024 | AK        | UPDATE AS PER DBPR COMMENT |
|             |            |           |                            |
|             |            |           |                            |
|             |            |           |                            |

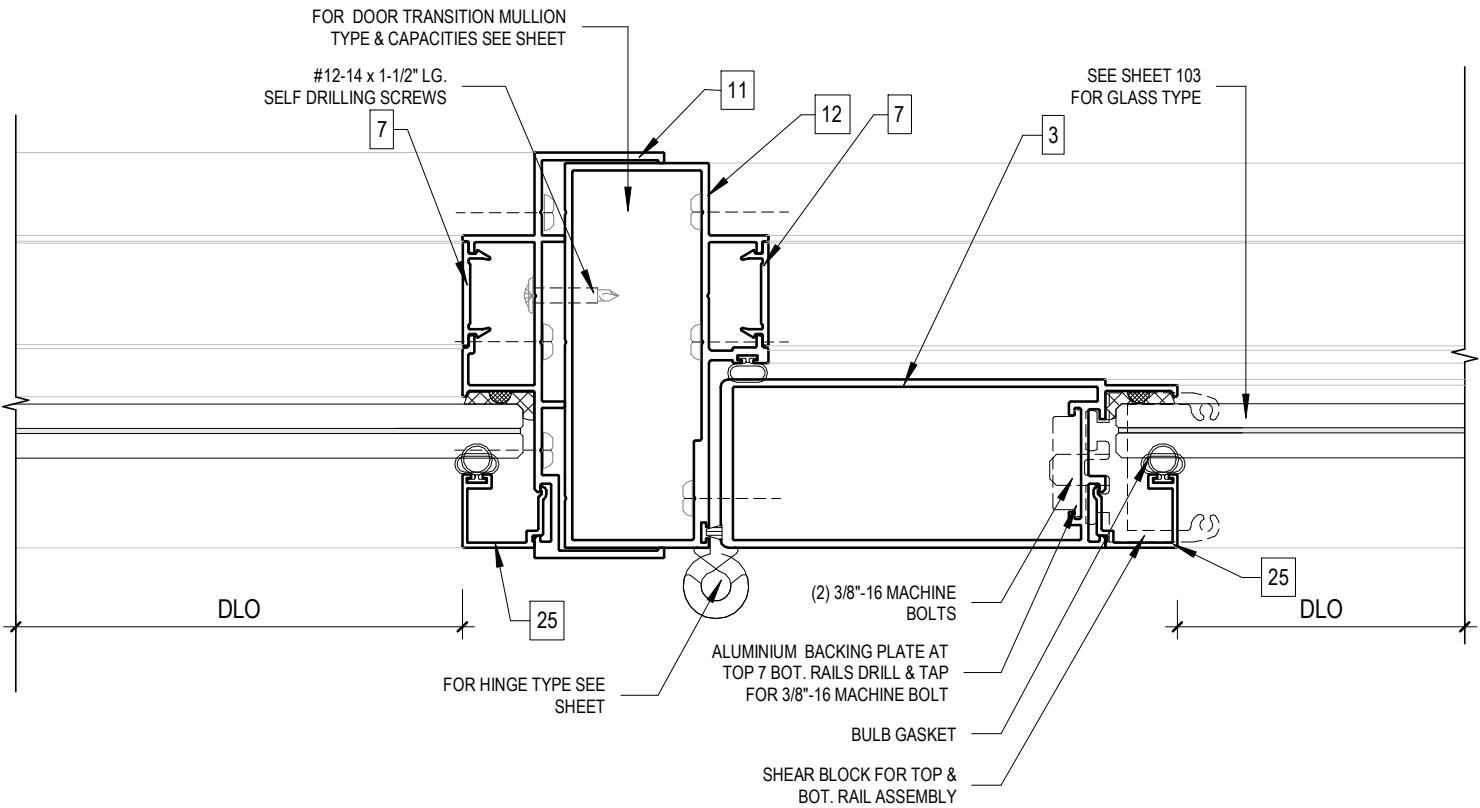
ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



SEALED: 12/27/2024



1  
110  
SIDELITE TRANSITION MULLION DETAIL  
6" = 1'-0"



2  
110  
DOOR TRANSITION MULLION DETAIL  
6" = 1'-0"



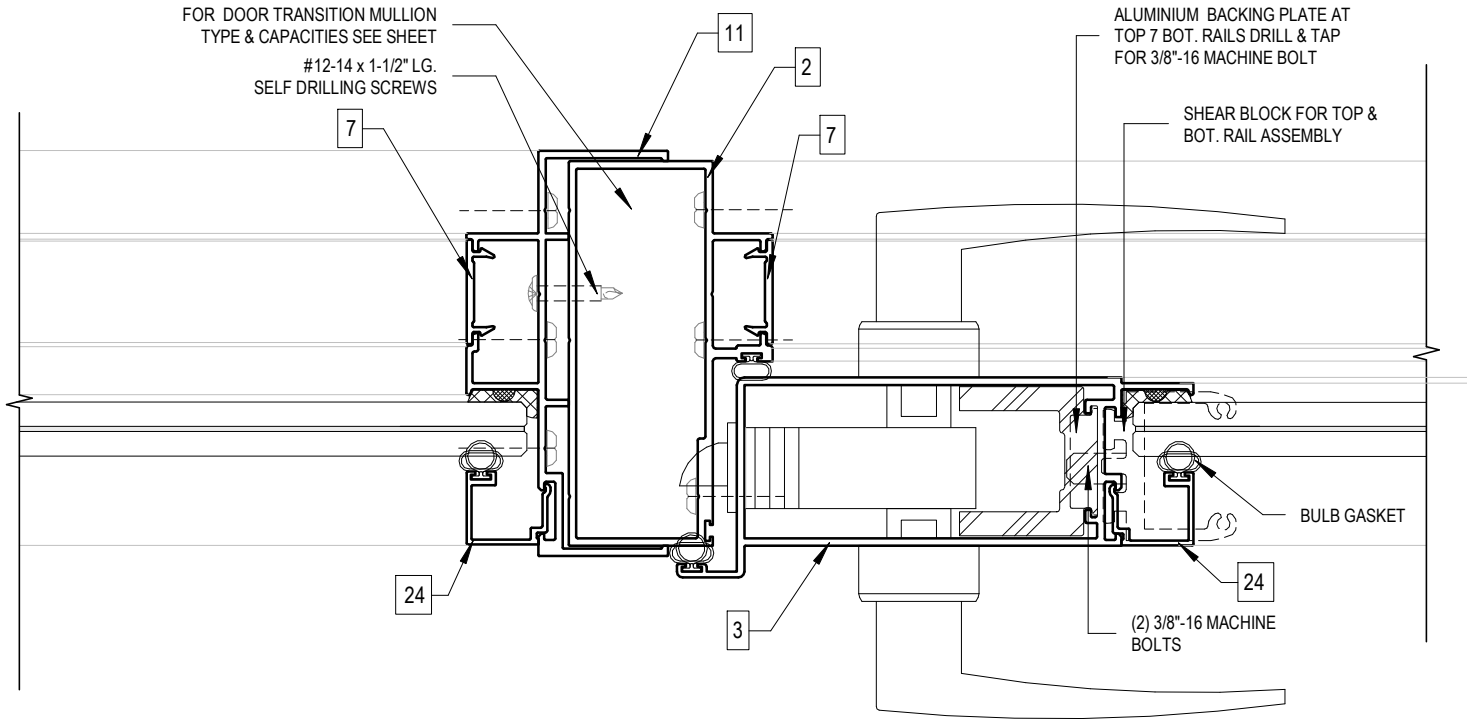
JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

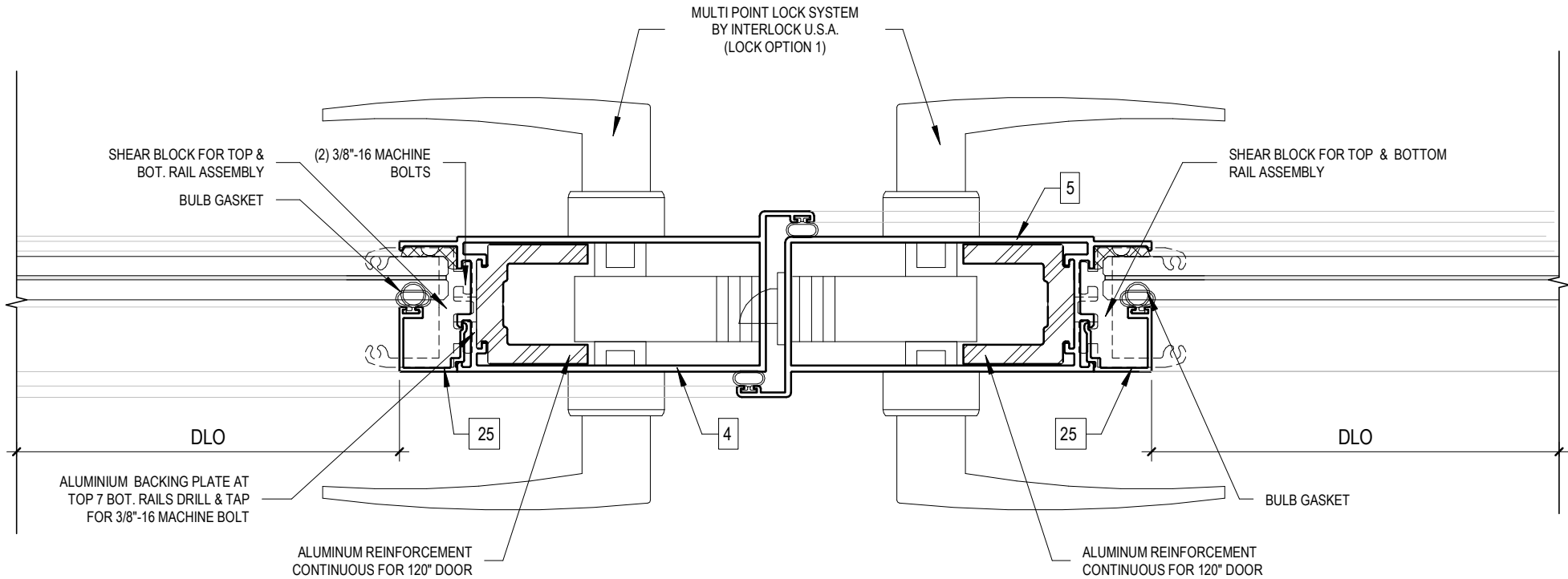
ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



SEALED: 12/27/2024



1  
111 DOOR TRANSITION MULLION LOCKING DETAIL  
6" = 1'-0"



2  
111 REINFORCED ASTRAGAL STILE DETAIL  
6" = 1'-0"



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

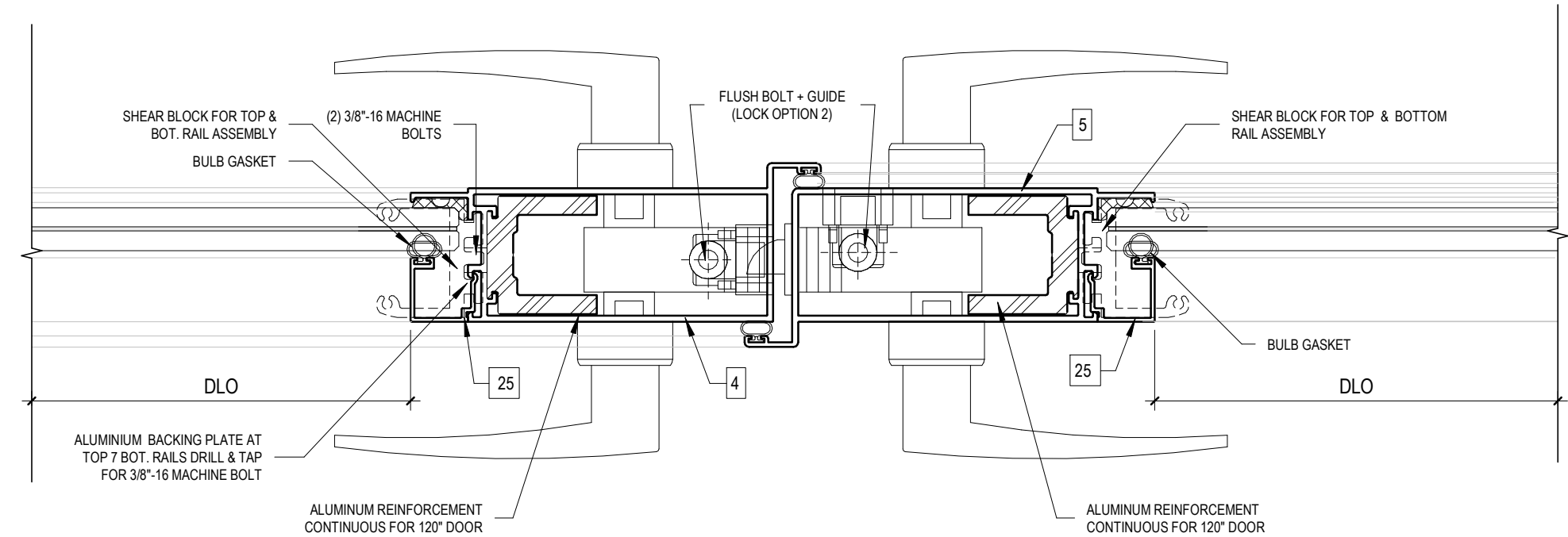
ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC  
5802 N.W. 80th St. Medley, FL 33166  
TEL: (305) 885-5299 FAX: (305) 885-5902



SEALED: 12/27/2024



1  
112 REINFORCED ASTRAGAL STILE DETAIL LOCKING  
6" = 1'-0"



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC.  
8802 N.W. 80th ST. MEDLEY, FL 33166  
TEL: (305) 885-5299 FAX: (305) 885-5902

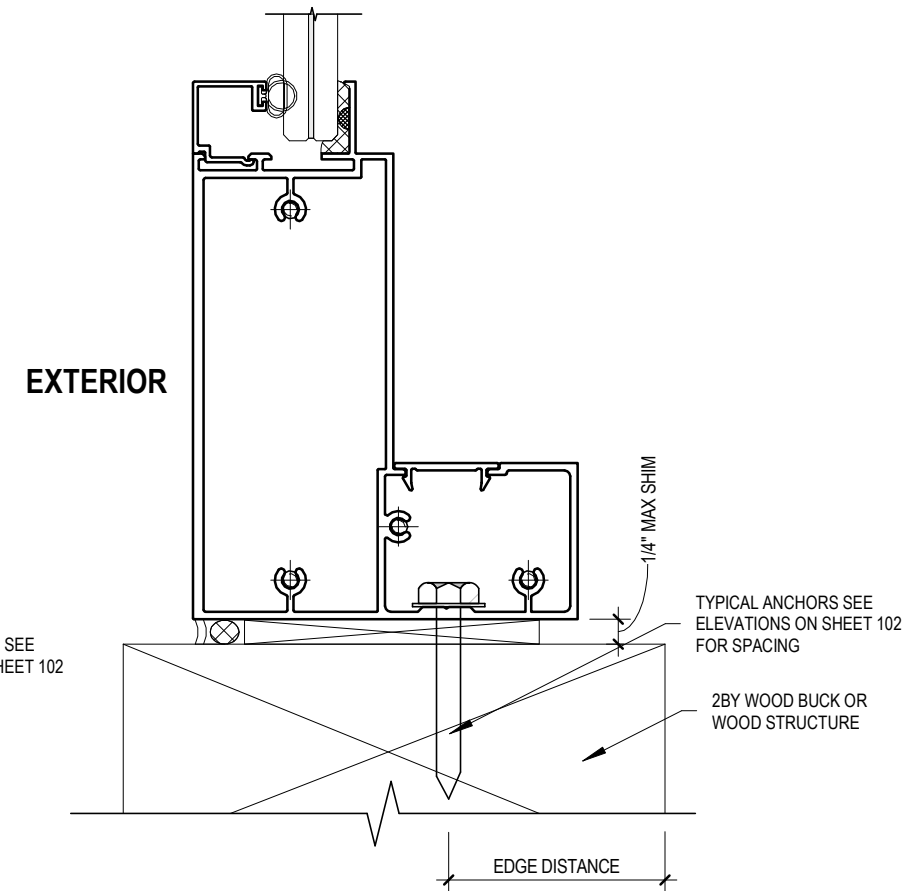
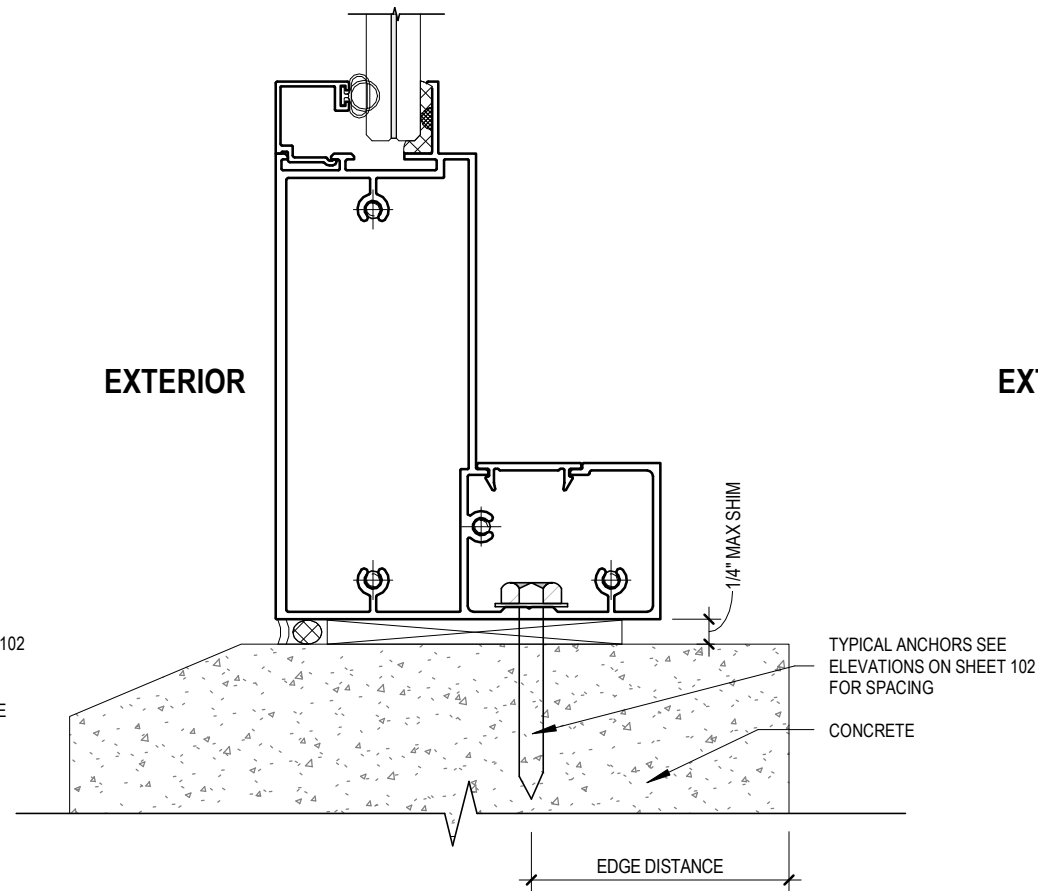
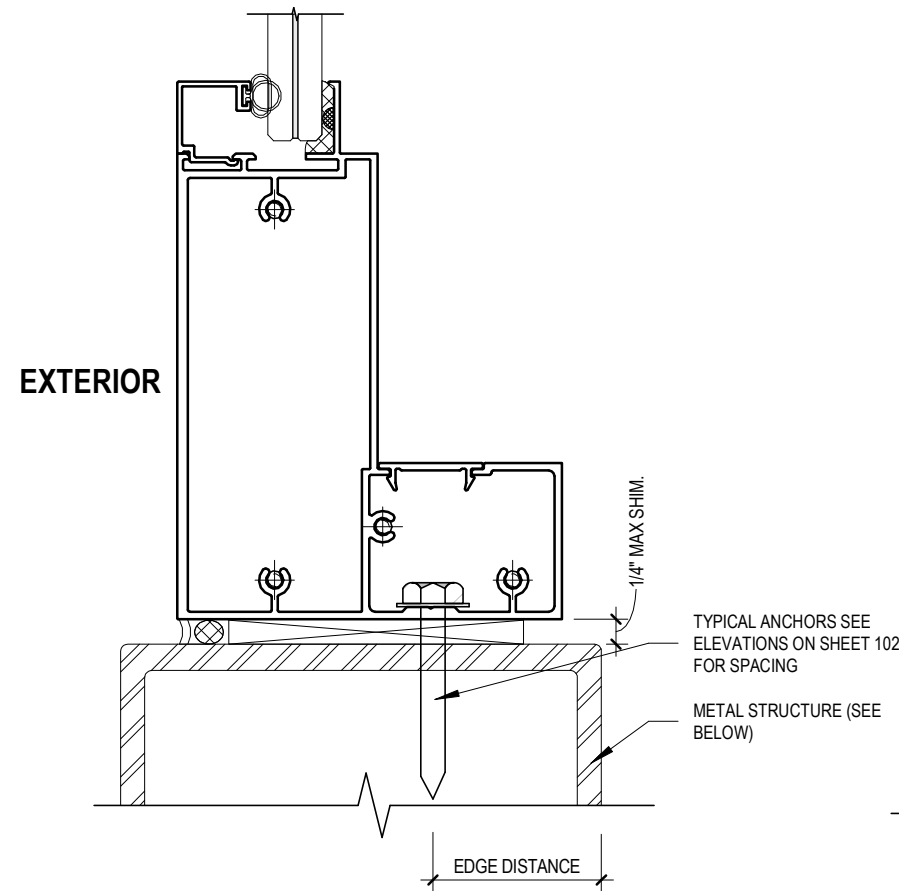


SEALED: 12/27/2024



support@ja-pe.com

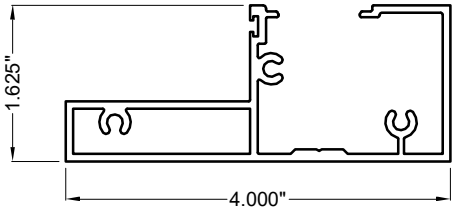
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS



113 OF 117

SILL/HEAD

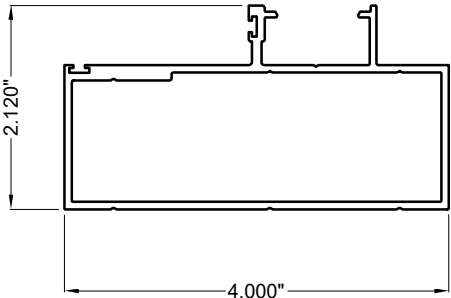
1



ALLOY 6063-T6 E671

JAMB

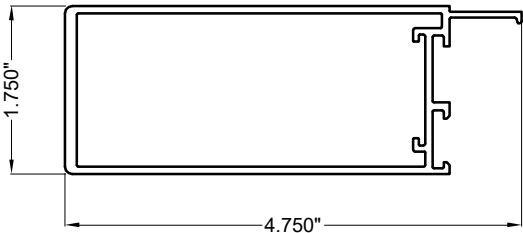
2



ALLOY 6063-T6 E672

HINGE STILE

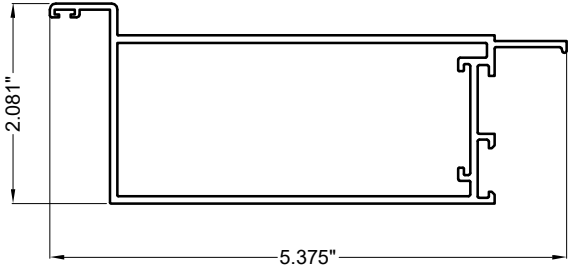
3



ALLOY 6063-T6 E673

INACTIVE ASTRAGAL STILE

4



ALLOY 6063-T6 E674

ACTIVE ASTRAGAL STILE

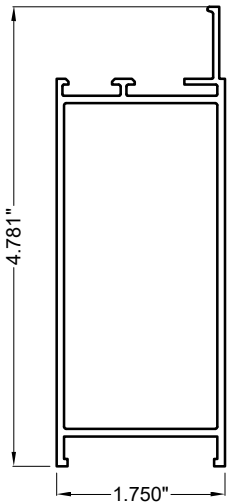
5



ALLOY 6063-T6 E675

TOP/BOTTOM RAIL

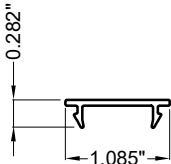
6



ALLOY 6063-T6 E676

SNAP-IN COVER

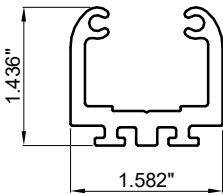
7



ALLOY 6063-T6 E677

SHEAR BLOCK

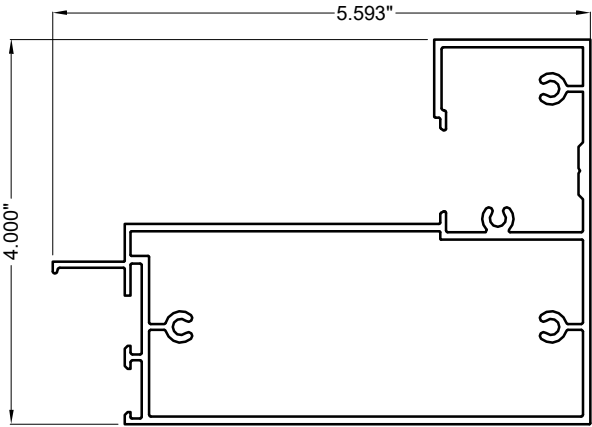
8



ALLOY 6063-T6 E678

SIDELITE TOP/BOTTOM RAIL

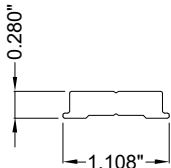
9



ALLOY 6063-T6 E679

FRAME ASSY BACKING PLATE

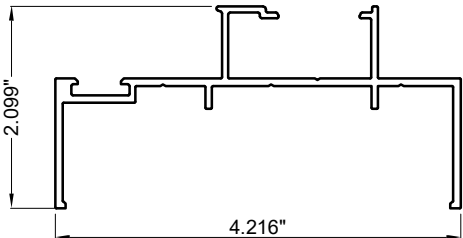
10



ALLOY 6063-T6 E680

SIDELITE SLIP-ON MULLION

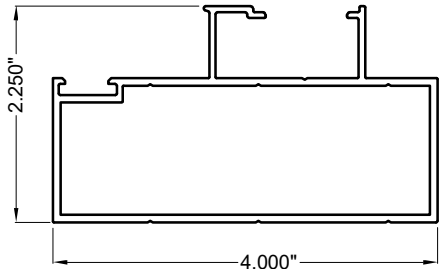
11



ALLOY 6063-T6 E681

SIDELITE JAMB

12



ALLOY 6063-T6 E682



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

| drawing no. | date: | JA-2042-24 | drawn by: | BS | REVISION |            |    |                            |
|-------------|-------|------------|-----------|----|----------|------------|----|----------------------------|
|             |       |            |           |    | No.      | DATE       | BY | DESCRIPTION                |
|             |       | 12-27-2024 | check by: | SJ | 1        | 12-27-2024 | AK | UPDATE AS PER DBPR COMMENT |
|             |       |            |           |    |          |            |    |                            |
|             |       |            |           |    |          |            |    |                            |

ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)

ECO WINDOW SYSTEMS, LLC.  
8802 N.W. 80th ST. MEDLEY, FL 33166  
TEL: (305) 885-5259 FAX: (305) 885-5902

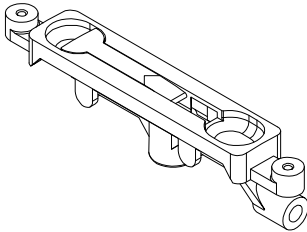
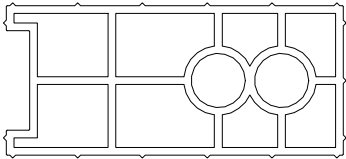
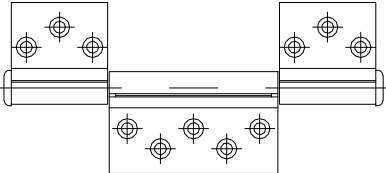
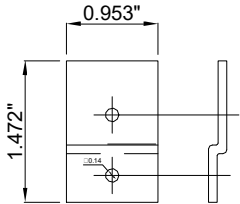
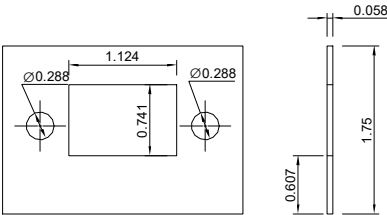
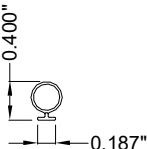
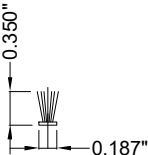
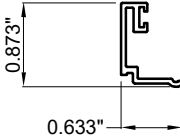
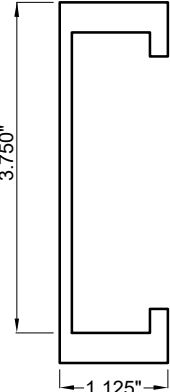
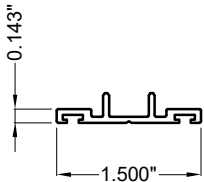
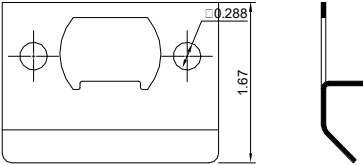
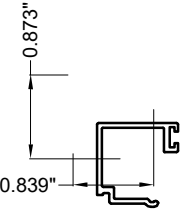
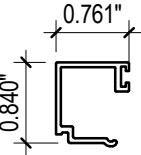


SEALED: 12/27/2024



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

|                                                                                                                                                                                                          |                                                                                                                                                                                                    |                                                                                                                                                                                                        |                                                                                                                                                                                           |                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>FLUSH BOLT</div> <div><div>13</div></div> <div>MATERIAL:<br/>ZAMAK &amp; STEEL TIP</div>                           | <div>FLUSH BOLT KEEPER</div> <div><div>14</div></div> <div>MATERIAL:<br/>PLASTIC</div> <div>A672</div>            | <div>FLUSH BOLT GUIDE</div> <div><div>15</div></div> <div>MATERIAL:<br/>NYLON</div> <div>A673</div>                 | <div>ALUMINUM HINGE</div> <div><div>16</div></div> <div>MATERIAL:<br/>ALUMINUM</div> <div>A674</div>   | <div>DEAD BOLT BACKING PLATE</div> <div></div> <div>Material:<br/>ALUMINUM</div> <div>A676</div>     |
| <div>WEATHER STRIP</div> <div><div>17</div></div> <div>MATERIAL:<br/>WOVEN PILE + POLYP. BACKING</div> <div>A678</div> | <div>BULB GASKET</div> <div><div>18</div></div> <div>MATERIAL:<br/>TPE &amp; POLYPROPYLENE</div> <div>G671</div> | <div>WEATHER STRIP</div> <div><div>19</div></div> <div>MATERIAL:<br/>TPE &amp; POLYPROPYLENE</div> <div>G672</div> | <div>GLASS STOP FOR INSULATED</div> <div><div>20</div></div> <div>ALLOY 6063-T6</div> <div>E279</div> | <div>MULLION REINFORCEMENT</div> <div><div>21</div></div> <div>ALLOY 6063-T52</div> <div>E686</div> |
| <div>WEATHER STRIP ADAPTER</div> <div><div>22</div></div> <div>ALLOY 6063-T6</div> <div>E685</div>                    | <div>WEATHER STRIP</div> <div><div>23</div></div> <div>STAINLESS STEEL</div> <div>A677</div>                   | <div>GLASS STOP FOR 7/16"</div> <div><div>24</div></div> <div>ALLOY 6063-T6</div> <div>E683</div>                 | <div>GLASS STOP FOR 9/16"</div> <div><div>25</div></div> <div>ALLOY 6063-T6</div> <div>E684</div>    |                                                                                                                                                                                         |

|             |            |           |                            |
|-------------|------------|-----------|----------------------------|
| drawing no. | JA-2042-24 | drawn by: | BS                         |
| date:       | 12-27-2024 | check by: | SJ                         |
| REVISION    |            |           |                            |
| No.         | DATE       | BY        | DESCRIPTION                |
| 1           | 12-27-2024 | AK        | UPDATE AS PER DBPR COMMENT |
|             |            |           |                            |
|             |            |           |                            |

ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC.  
5602 N.W. 80th ST. MEDLEY, FL 33166  
TEL: (305) 885-5259 FAX: (305) 885-5902



SEALED: 12/27/2024

| BILL OF MATERIALS |        |                              |                             |
|-------------------|--------|------------------------------|-----------------------------|
| ITEM #            | PART # | DESCRIPTION                  | MATERIAL                    |
| 1                 | E671   | FRAME HEAD/SILL              | ALLOY 6063-T6               |
| 2                 | E672   | FRAME JAMB                   | ALLOY 6063-T6               |
| 3                 | E673   | HINGE STILE                  | ALLOY 6063-T6               |
| 4                 | E674   | INACTIVE ASTRAGALSTILE       | ALLOY 6063-T6               |
| 5                 | E675   | ACTIVE ASTRAGAL STILE        | ALLOY 6063-T6               |
| 6                 | E676   | FRAME TOP/BOTTOM RAIL        | ALLOY 6063-T6               |
| 7                 | E677   | SNAP - IN COVER              | ALLOY 6063-T6               |
| 8                 | E678   | SHEAR BLOCK                  | ALLOY 6063-T6               |
| 9                 | E679   | SIDELITE TOP/BOTTOM RAIL     | ALLOY 6063-T6               |
| 10                | E680   | FRAME ASSEMBLY BACKING PLATE | ALLOY 6063-T6               |
| 11                | E681   | SIDELITE SLIP ON MULLION     | ALLOY 6063-T6               |
| 12                | E682   | SIDELITE JAMB                | ALLOY 6063-T6               |
| 13                | A671   | FLUSH BOLT                   | ZAMAK & STEEL TIP           |
| 14                | A672   | FLUSH BOLT KEEPER            | PLASTIC                     |
| 15                | A673   | FLUSH BOLT GUIDE             | NYLON                       |
| 16                | A674   | ALUMINUM HINGE               | ALUMINUM                    |
| 17                | A676   | DEAD BOLT BACKING PLATE      | ALUMINUM                    |
| 18                | A678   | WEATHER STRIP                | WOVEN PILE + POLYP. BACKING |
| 19                | G671   | BULB GASKET                  | TPE & POLYPROPYLENE         |
| 20                | G672   | WEATHER STRIP                | TPE & POLYPROPYLENE         |
| 21                | E283   | GLASS STOP FOR INSULATED     | ALLOY 6063-T6               |
| 22                | A686   | MULLION REINFORCEMENT        | ALLOY 6063-T52              |
| 23                | E685   | WEATHER STRIP ADAPTER        | ALLOY 6063-T6               |
| 24                | A277   | WEATHER STRIP                | STAINLESS STEEL             |
| 25                | E683   | GLASS STOP FOR 7/16"         | ALLOY 6063-T6               |
| 26                | E684   | GLASS STOP FOR 9/16"         | ALLOY 6063-T6               |
| 27                | -      | ASTRAGAL REINFORCEMENT       | ALUMINUM                    |



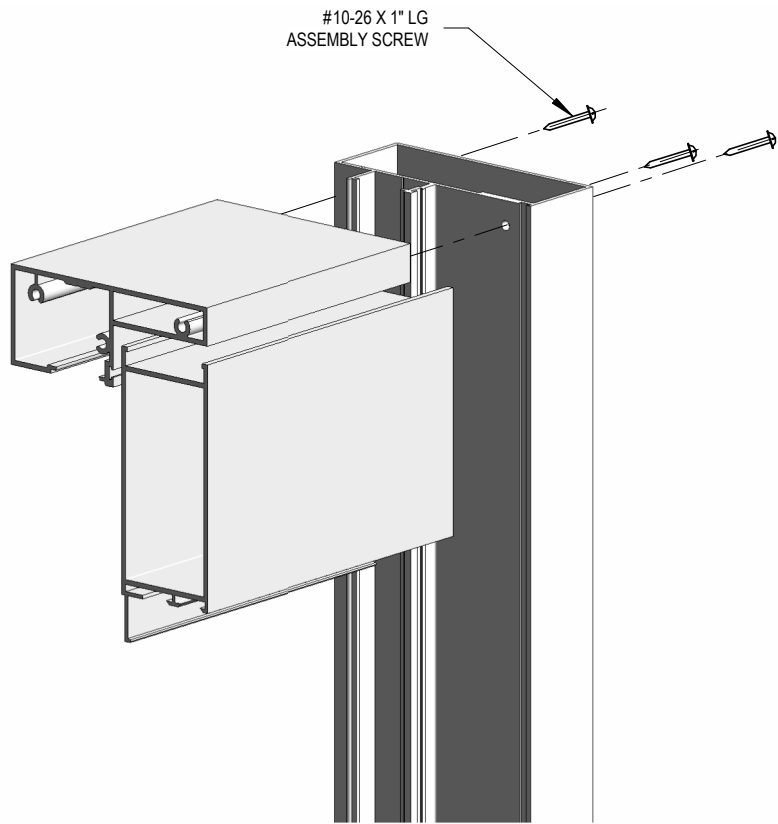
JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

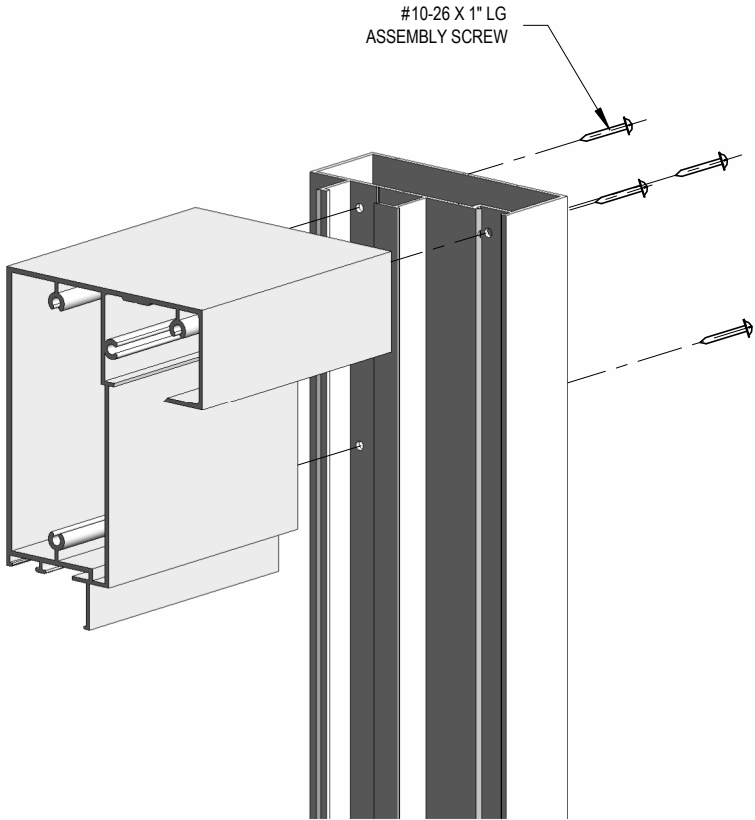
ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



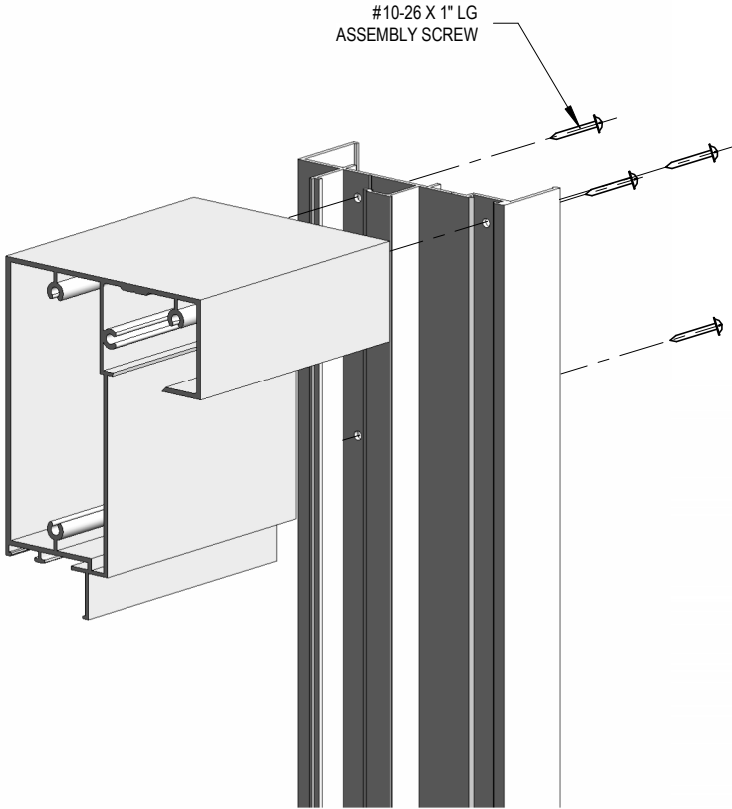
SEALED: 12/27/2024



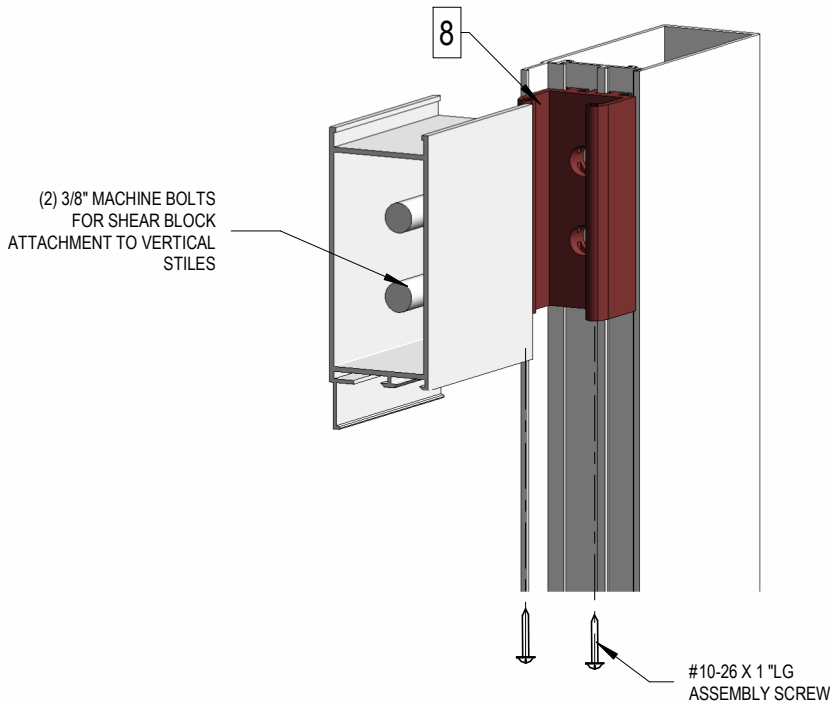
DOOR FRAME CORNER



SIDELITE FRAME CORNER



SIDELITE SLIP ON JAMB CORNER



DOOR LEAF CORNER



JAVAD AHMAD PE, inc  
7875 NW 12th St., Suite 102  
Doral, FL 33126  
Ph: (305) 424-8001  
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

ECO-NOVO SERIES : 675 FRENCH DOOR  
(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC  
8802 N.W. 80th ST. MEDLEY, FL 33166  
TEL: (305) 885-5299 FAX: (305) 885-5902



SEALED: 12/27/2024