

FL #	Model, Number or Name	Description
38034.1	3100-5100 Entry Door Series Glazed Inswing/Outswing Door (Non-HVHZ) (Non-Impact)	3100-5100 Entry Door Series Glazed Inswing/Outswing Door (Non-HVHZ) (Non-Impact)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See Installation Instructions and Product Evaluation Report for allowable design pressures, sizes, configurations, installation requirements and limits of use.		<b>Installation Instructions</b> <u><a href="#">FL38034 R1 II AJM001 SS 2023-12-20.pdf</a></u> Verified By: Hermes F. Norero, P.E. 73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <u><a href="#">FL38034 R1 AE PER9016 SS 2023-12-19.pdf</a></u> Created by Independent Third Party: Yes



**A. J. MANUFACTURING, INC.**  
1327 OAK STREET  
BLOOMER, WI 54724  
PH: (715) 568-2204 EXT 31

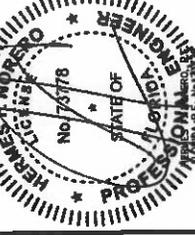
**BUILDING DROPS, INC.**  
1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954) 744-4728  
FAX: (954) 744-4728

PREPARED BY: \_\_\_\_\_  
BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

TITLE: ENTRY DOOR SERIES 3100-5100  
(NON-HVHZ) GLAZED INSWING/OUTSWING DOOR  
INSTALLATION & GENERAL NOTES

REMARKS

Digitally signed by Hermee F. Nerezo, P.  
Reason: I am approving this document  
Date: 2024.11.13.23



1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
FPE CERT. OF AUTHORIZATION No. 28370

FL #: **FL38034**

DATE: **11.13.23**

DWG. BY: **DI** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AJM001**

SHEET: \_\_\_\_\_

# A. J. MANUFACTURING, INC.

## ENTRY DOOR SERIES 3100-5100

### GLAZED INSWING/OUTSWING DOOR (NON-HVHZ) (NON-IMPACT)

**TABLE OF CONTENTS**

SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION, ANCHOR LAYOUT & GLAZING DETAIL
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS

**GENERAL NOTES:**

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC). EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - ASTM E330-14
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BRUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- FRAME MATERIAL:  
JAMB: (3100 & 3700) ALUMINUM 6063-T5 & (5100) 16 GA STEEL PLY MIN. = 33 KSI  
HEAD & SILL: 6063-T5 ALUMINUM
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED AS DEFINED IN THE FBC.
- ALL EXPOSED STEEL COMPONENTS ARE GALVANIZED AND SHOP PRIMED.
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAIL.

**INSTALLATION NOTES:**

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR INSTALLATION ANCHORS THROUGH HINGES ONLY USE #8 WOOD SCREWS ADHERING TO EMBEDMENT & EDGE DISTANCE REQUIREMENTS LISTED IN NOTES 5 ABOVE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

LOCK TYPE	FRAME SIZE	DESIGN PRESSURE RATING		MISSILE IMPACT RATING
		DESIGN PRESSURE	W/O WATER INFILTRATION	
SINGLE POINT OUTSWING	37.625" X 80.375"	+55.0 / -60.0 PSF*	W/O WATER INFILTRATION	NON-IMPACT
SINGLE POINT INSWING	37.625" X 80.375"	+60.0 / -55.0 PSF*	W/O WATER INFILTRATION	NON-IMPACT
SINGLE POINT W/ DEAD BOLT OUTSWING	37.625" X 80.375"	+55.0 / -66.7 PSF*	W/O WATER INFILTRATION	NON-IMPACT
SINGLE POINT W/ DEAD BOLT INSWING	37.625" X 80.375"	+66.7 / -55.0 PSF*	W/O WATER INFILTRATION	NON-IMPACT

\*UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT THE OVERHANG RATIO (OH) = OH LENGTH/OH HEIGHT IS GREATER THAN 1.0 WHERE WATER INFILTRATION IS REQUIRED.

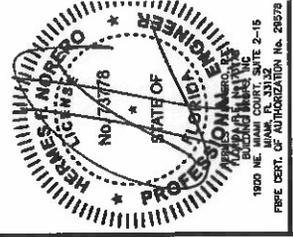


**A. J. MANUFACTURING, INC.**  
 1217 OAK STREET  
 BLOOMER, WI 54724  
 PH: (715) 568-2204 EXT 31

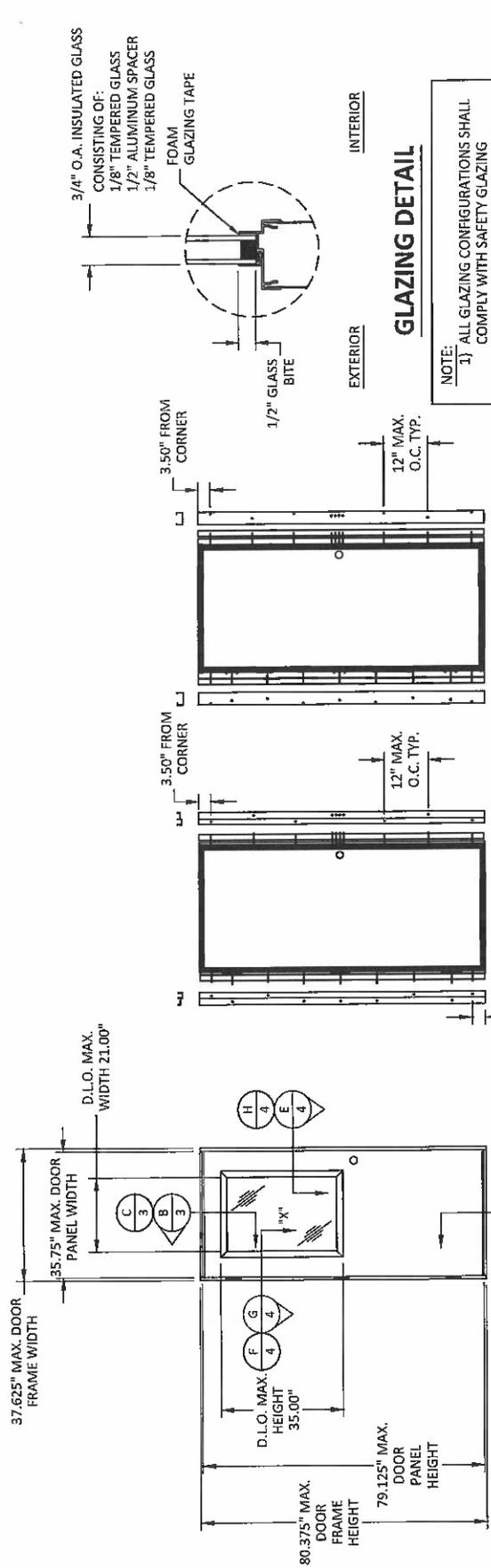
**BUILDING DROPS, INC.**  
 1500 NE MIAMI COURT, SUITE 2-15  
 MIAMI, FL 33132  
 PH: (954) 999-8478  
 FAX: (954) 944-8728

PREPARED BY: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

REMARKS	BY	DATE



FL #: **FL38034**  
 DATE: **11.13.23**  
 DWG. BY: **DI** CHK. BY: **HFN**  
 SCALE: **NTS**  
 DWG. #: **AJM001**  
 SHEET: \_\_\_\_\_



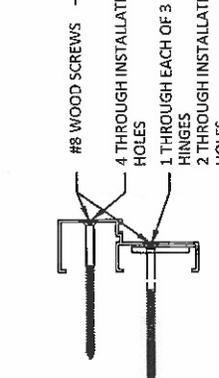
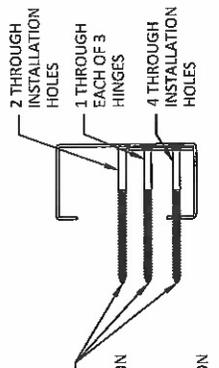
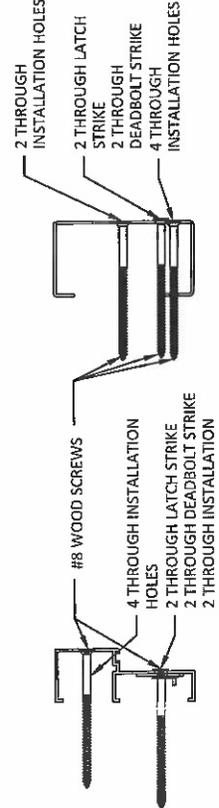
**GLAZING DETAIL**

NOTE:  
 1) ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE CURRENT FBC.

**5100 ANCHOR LAYOUT**

**3100 & 3700 ANCHOR LAYOUT**

**ELEVATION**



**LOCK JAMB TYP. ANCHOR PLACEMENT - 5100**

**LOCK JAMB TYP. ANCHOR PLACEMENT - 3100 & 3700**

**HINGE JAMB TYP. ANCHOR PLACEMENT - 5100**

**HINGE JAMB TYP. ANCHOR PLACEMENT - 3100 & 3700**



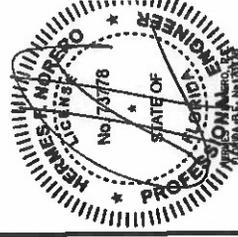
**A. J. MANUFACTURING, INC.**  
 1227 OAK STREET  
 BLOOMING, MISSOURI  
 PH: (314) 584-4738  
 FX: (314) 584-4738  
 1900 NE MIAMI COURT, SUITE 2-15  
 MIAMI, FL 33132  
 BUILDING DROPS, INC.  
 PREPARED BY:

ENTRY DOOR SERIES 3100-5100  
 GLAZED INSWING/OUTSWING DOOR  
 (NON-HHZ) (NON-IMPACT)  
 VERTICAL SECTIONS

TITLE: REMARKS BY DATE

REMARKS	BY	DATE

THESE SECTIONS ARE NOT TO BE CONSIDERED AS SPECIFICATIONS AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THESE SECTIONS, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



ROBERT J. MOORE  
 PROFESSIONAL ENGINEER  
 1900 NE MIAMI COURT, SUITE 2-15  
 MIAMI, FL 33132  
 BUILDING DROPS, INC.  
 ENGINEER OF AUTHORIZATION No. 23578

FL #: **FL38034**

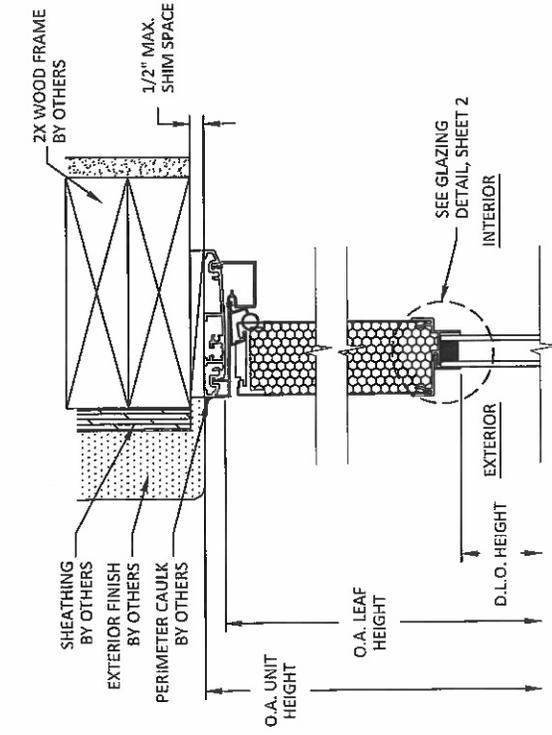
DATE: **11.13.23**

DWG. BY: **DI** CHK. BY: **HFN**

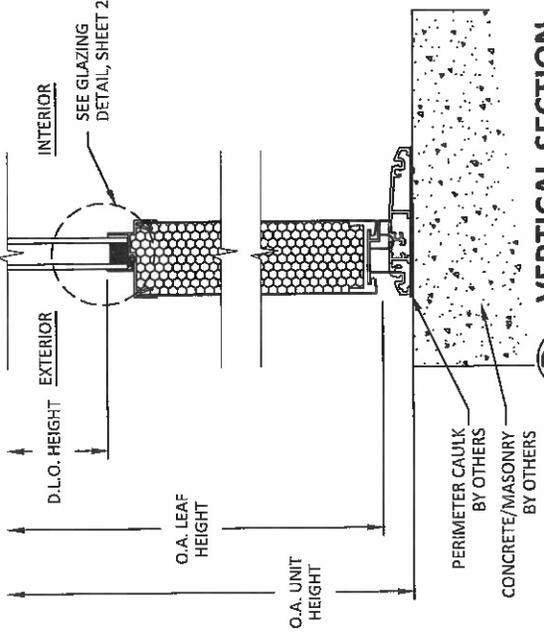
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DWG. #: **AJM001**

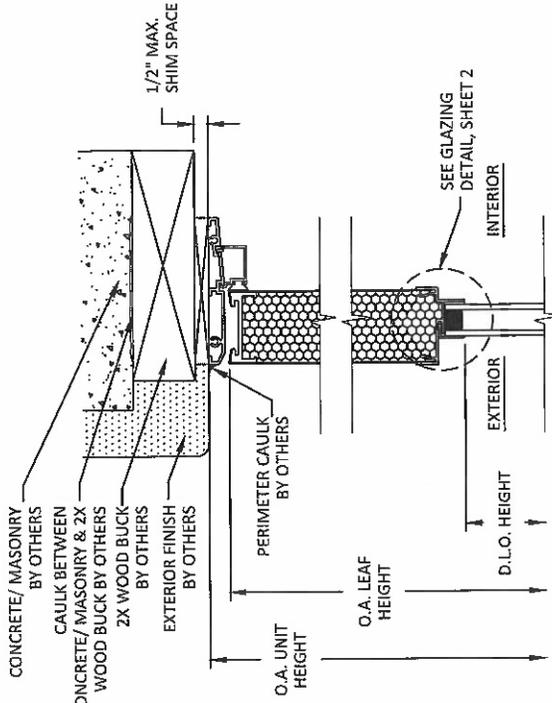
SHEET: **3**



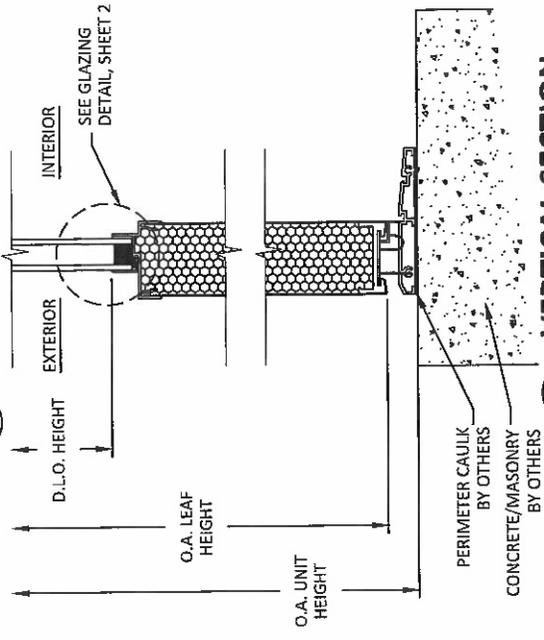
**C** VERTICAL SECTION  
 HEAD - 5100



**D** VERTICAL SECTION  
 SILL - 5100



**B** VERTICAL SECTION  
 HEAD - 3100 & 3700



**A** VERTICAL SECTION  
 SILL - 3100 & 3700



**A. J. MANUFACTURING, INC.**  
 1327 OAK STREET  
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 PH: (305) 569-2204 EXT. 31

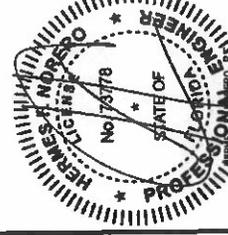
**BUILDING DROPS, INC.**  
 1900 NE MIAMI COURT, SUITE 2-15  
 MIAMI, FL 33132  
 PH: (954) 444-4738



PREPARED BY: \_\_\_\_\_  
 BY DATE: \_\_\_\_\_

REMARKS	BY	DATE

THIS DRAWING AND ALL SPECIFICATIONS ARE PREPARED BY BUILDING DROPS, INC. AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC PROJECT. THE USER SHALL VERIFY ALL REQUIREMENTS FROM THE REQUIREMENTS SET FORTH HEREIN. A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



**PROFESSIONAL ENGINEER**  
 HERBERT J. NOBER  
 No. 75778  
 STATE OF FLORIDA  
 BUILDING DROPS, INC.  
 1900 NE MIAMI COURT, SUITE 2-15  
 MIAMI, FL 33132  
 ENGINEER LICENSE NO. 28579

FL #: **FL38034**

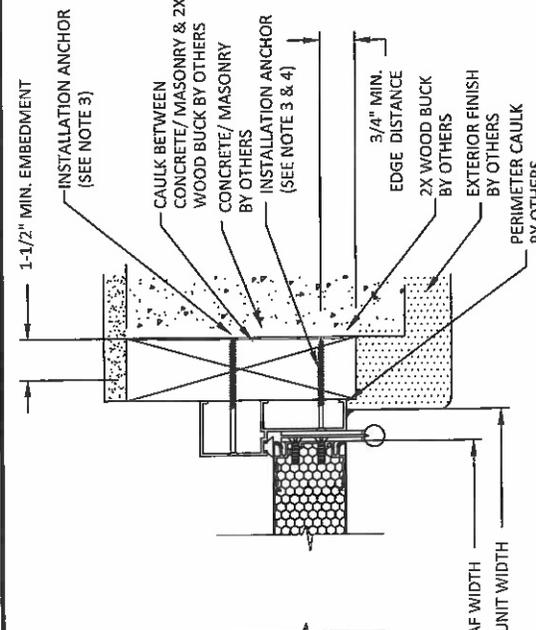
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DWG. BY: **DI** CHK. BY: **HFN**

SCALE: **NTS**

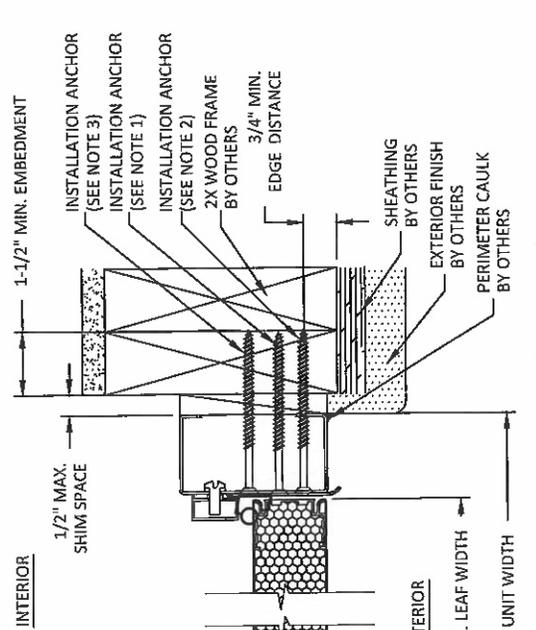
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SHEET: **4** OF 4

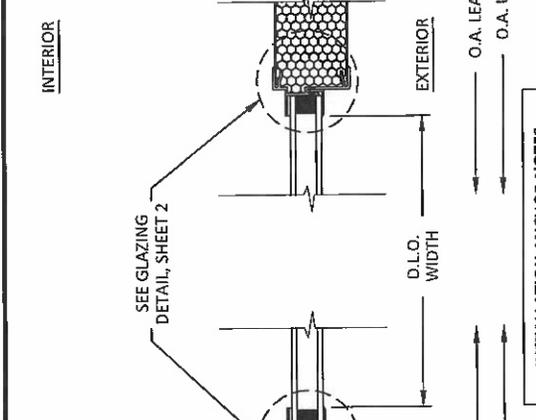


**E HORIZONTAL SECTION**  
 JAMB - 3100 & 3700  
 2X WOOD BUCK, TYP.

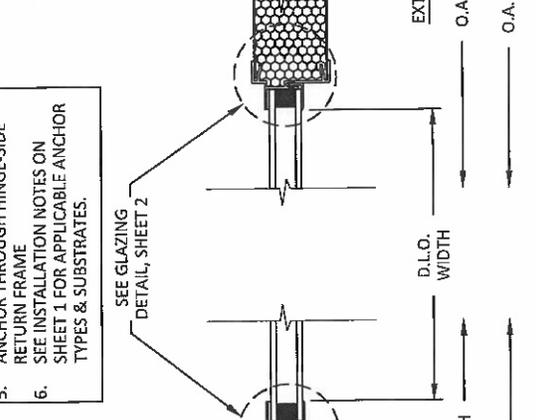
- INSTALLATION ANCHOR NOTES**
- ANCHOR THROUGH STRIKE RETURN FRAME
  - ANCHOR THROUGH MAIN FRAME
  - ANCHOR THROUGH HINGE
  - ANCHOR THROUGH HINGE-SIDE RETURN FRAME
  - ANCHOR THROUGH HINGE-SIDE RETURN FRAME
  - SEE INSTALLATION NOTES ON SHEET 1 FOR APPLICABLE ANCHOR TYPES & SUBSTRATES.



**F HORIZONTAL SECTION**  
 JAMB - 5100  
 2X WOOD FRAME, TYP.



**G HORIZONTAL SECTION**  
 JAMB - 5100  
 2X WOOD FRAME, TYP.



**H HORIZONTAL SECTION**  
 JAMB - 5100  
 2X WOOD FRAME, TYP.



1900 NE MIAMI CT. SUITE 2-15, MIAMI, FL 33132

## Product Evaluation Report

of

**A. J. Manufacturing, Inc.**  
**3100-5100 Entry Door Series Glazed Inswing/Outswing Door**  
**(Non-HVHZ) (Non-Impact)**

for

**Florida Product Approval**

**FL# FL38034**  
**Report No. 9016**

**Current Florida Building Code**

<b>Method:</b>	<b>1 – D (Engineering Evaluation)</b>
<b>Category:</b>	<b>Exterior Doors</b>
<b>Sub – Category:</b>	<b>Swinging Exterior Door Assemblies</b>
<b>Product:</b>	<b>3100-5100 Entry Door Series Glazed Inswing/Outswing Door (Non-HVHZ) (Non-Impact)</b>
<b>Material:</b>	<b>Aluminum</b>
<b>Product Dimensions:</b>	<b>See Installation Instructions, AJM001</b>

**Prepared for:**

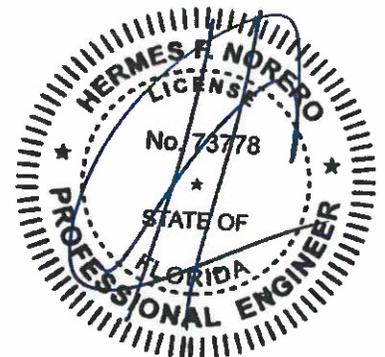
**A. J. Manufacturing, Inc.**  
**1217 Oak Street**  
**Bloomer, WI 54724**

**Prepared by:**

**Hermes F. Norero, P.E.**  
Florida Professional Engineer # 73778  
Date: 12/12/2023

Contents:

Evaluation Report      Pages 1 – 3



Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2023.12.20 20:45:50 -05'00'

Hermes F. Norero, P.E.  
Florida No. 73778

1900 NE MIAMI CT. SUITE 2-15, MIAMI, FL 33132

**Manufacturer:** A. J. Manufacturing, Inc.  
**Product Category:** Exterior Doors  
**Product Sub-Category:** Swinging Exterior Door Assemblies  
**Compliance Method:** State Product Approval Method (1)(d)  
**Product Name:** 3100-5100 Entry Door Series Glazed Inswing/Outswing Door (Non-HVHZ) (Non-Impact)

**Scope:** This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for A. J. Manufacturing, Inc. based on Method 1d of the Florida Department of Business and Professional Regulation - Florida Building Commission.

Hermes F. Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the current Florida Building Code.

See Installation Instructions **AJM001**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

**Limits of Use:**

1. This product has been evaluated and is in compliance with the current Florida Building Code, **excluding** the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Chapter 16 of the current Florida Building Code and **does require** an impact resistant covering.
4. Site conditions that deviate from the details of Installation Instructions **AJM001** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **AJM001** for size and design pressure limitations.

1900 NE MIAMI CT. SUITE 2-15, MIAMI, FL 33132

**Quality Assurance:** The manufacturer has demonstrated compliance of manufacture of products in accordance with the Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Architectural Testing, Inc., an Intertek Company** (FBC Organization #: QUA1844).

**Performance Standards:** The product described herein has been tested per:

- ASTM E330-14

**Referenced Data:**

1. Product Testing performed by **Architectural Testing, Inc.** (FBC Organization # TST1795)  
Report Number: 63581.01-201-44      Date: 04/17/2006
2. Quality Assurance  
**Architectural Testing, Inc., an Intertek Company**  
(FBC Organization #: QUA1844)

**Installation:** Refer to Installation Instructions (**AJM001**) for anchor spacing and more details of the installation requirements.

**Design Pressure:** Refer to Installation Instructions (**AJM001**) for anchor spacing and more details of the installation requirements.

**Equivalence of Test Standards:**

Various test standards have been evaluated for differences in test methodology, if any, between tested editions of the test standards listed below and those editions referenced in the current Florida Building Code. The manufacturer has tested their products to the following test standard edition(s):

- 1) ASTM E330-97e1

Chapter 35 of the current Florida Building Code references the following editions of the above mentioned test standards:

- 1) ASTM E330-14

After review of the above-mentioned referenced standards and editions, it has been found that no significant technical changes have been made to the test standards that would affect the results. All referenced standards have been found to be equivalent.