



COLUMBIA COUNTY PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online at www.floridabuilding.org.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	ReliaBilt	Single Hung Window	20100.1
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED	ReliaBilt	Picture Window	20471.1
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
A. ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; **(1)** copy of the product approval **(2)** performance characteristics which the product was tested and certified to comply with **(3)** copy of the applicable manufacturer's installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

10/9/2023

APPLICANT SIGNATURE

DATE



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Product Approval
USER: Public User

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

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Search Criteria

[Refine Search](#)

Code Version	2020	FL#	20100.1
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL20100-R11 History	Affirmation	Atrium Windows & Doors FL#: FL20100.1 Model: Series 120/130 Single Hung Continuous Head and Sill (CHS) Description: Twin and Triple CHS Windows Category: Windows Subcategory: Single Hung	National Accreditation & Management Institute (804) 684-5124	Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

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

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**Product Approval**

USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**
**OFFICE OF THE
SECRETARY**

FL #	FL20100-R11								
Application Type	Affirmation								
Code Version	2020								
Application Status	Approved								
Comments									
Archived	☐								
Product Manufacturer	Atrium Windows & Doors								
Address/Phone/Email	300 Welcome Center Blvd. Welcome, NC 27374 (800) 542-9118 Ext 413596 luanne.harris@cornerstone-bb.com								
Authorized Signature	Harris Luanne luanne.harris@cornerstone-bb.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative	Luanne Harris								
Address/Phone/Email	300 Welcome Center Blvd. Welcome, NC 27374 (800) 542-9118 Ext 413596 luanne.harris@cornerstone-bb.com								
Category	Windows								
Subcategory	Single Hung								
Compliance Method	Certification Mark or Listing								
Certification Agency	National Accreditation & Management Institute								
Validated By	National Accreditation & Management Institute								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>AAMA 450</td> <td>2010</td> </tr> <tr> <td>AAMA/WDMA/CSA 101/I.S.2/A440</td> <td>2011</td> </tr> <tr> <td>AAMA/WDMA/CSA 101/I.S.2/A440</td> <td>2008</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	AAMA 450	2010	AAMA/WDMA/CSA 101/I.S.2/A440	2011	AAMA/WDMA/CSA 101/I.S.2/A440	2008
<u>Standard</u>	<u>Year</u>								
AAMA 450	2010								
AAMA/WDMA/CSA 101/I.S.2/A440	2011								
AAMA/WDMA/CSA 101/I.S.2/A440	2008								
Equivalence of Product Standards									
Certified By									

☒ I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity ☐ Yes ☐ No ☐ N/A

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.

2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.

3. 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.

4. SHIM(S) 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.

5. **THROUGH FRAME:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.

6. **THROUGH FRAME:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.

7. **THROUGH FRAME:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #10 ER-5 SELF TAPPING SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.

8. **THROUGH FIN:** FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.

9. **THROUGH FIN:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #8 SELF TAPPING SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.

10. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.

11. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

12. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.

13. 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.

14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. GROUT-FILLED CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C-476. MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

E. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

F. ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/16" (0.0625").
- ATRIUM CORPORATION

SERIES 130

SINGLE HUNG WINDOW
- GENERAL NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT IRC/IBC AND CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WOMA/CSA 101/1.5/2/A440-05/08
 - AAMA 450-10

2. 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.

3. 1X AND 2X BUCKS (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.

4. 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 IN NON-HVHZ AREAS.

5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.

6. WINDOW FRAME MATERIAL: PVC

7. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE CURRENT FBC.

8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 7 FOR GLAZING DETAIL.
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| 3 | D | ANCHOR LAYOUTS - THROUGH FRAME | |
| 4 | D | ANCHOR LAYOUTS - THROUGH FIN | |
| 5 | D | VERTICAL SECTIONS | |
| 6 | D | HORIZONTAL SECTIONS | |
| 7 | D | MULLION DETAILS & GLAZING DETAIL | |
- | MAX O.A. SIZE | | CONFIGURATION | DESIGN PRESSURE THROUGH FRAME FIN | MISSILE IMPACT RATING |
|---------------|----------|----------------|-----------------------------------|-----------------------|
| WIDTH | HEIGHT | | | |
| 53" | 77" | O/X | +/- 50 PSF +/- 50 PSF | NON-IMPACT |
| 48" | 108 1/2" | O / O/X | +/- 50 PSF +/- 50 PSF | NON-IMPACT |
| 72 1/2" | 108 1/2" | O / DOUBLE O/X | +/- 50 PSF +/- 50 PSF | NON-IMPACT |
| 96 1/2" | 84" | DOUBLE O/X | +/- 35 PSF +/- 50 PSF | NON-IMPACT |
| 109" | 77" | TRIPLE O/X | +/- 50 PSF +/- 50 PSF | NON-IMPACT |
- 4/16/2020 2:25 PM s:\projects\ply gem windows\lbc-15-1209 - lbc submittal - r20010.1, 3, 4, r20047.5 and 6, n.19702.1, r11646.2\dwg\5\lbc20100.1\lbc113.dwg
- ATRIUM

WINDOWS AND DOORS

ATRIUM WINDOWS AND DOORS
3903 AMBASSADOR ROW
DAVIA BEACH, FL 33004
PH: (249)372-2696 FAX: (249)424-6734
- PREPARED BY:
BUILDING DROPS, INC.
398 E. DAVIA BEACH BLVD., STE. 338
DAVIA BEACH, FL 33004
PH: (954)744-4738
FAX: (954)399-4978
WEB: www.buildingdrops.com

INSTALLATION & GENERAL NOTES

SERIES 130
SINGLE HUNG WINDOW

TITLE:
- | REMARKS | BY | DATE |
|---------------------------|----|----------|
| A-FBC 5th ED. CODE CHANGE | SM | 06.03.14 |
| B-CERT AGENCY UPDATE | LS | 02.27.17 |
| C-FBC 2017 CODE CHANGE | AG | 10.03.17 |
| D-ALUMINUM SUBSTRATE | YC | 04.16.20 |

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Digitally signed by Hernes F. Norero
Reason: I am approving this document
Date: 2020.04.17 15:01:38 -0400
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERNES F. NORERO, P.E.
398 E. DAVIA BEACH BLVD., STE. 338
DAVIA BEACH, FL 33004
FBC# CERT. OF AUTHORIZATION No. 29578
- FL #:

FL20100

DATE: 01.02.2020

DWG. BY: YC

CHK. BY: HFN

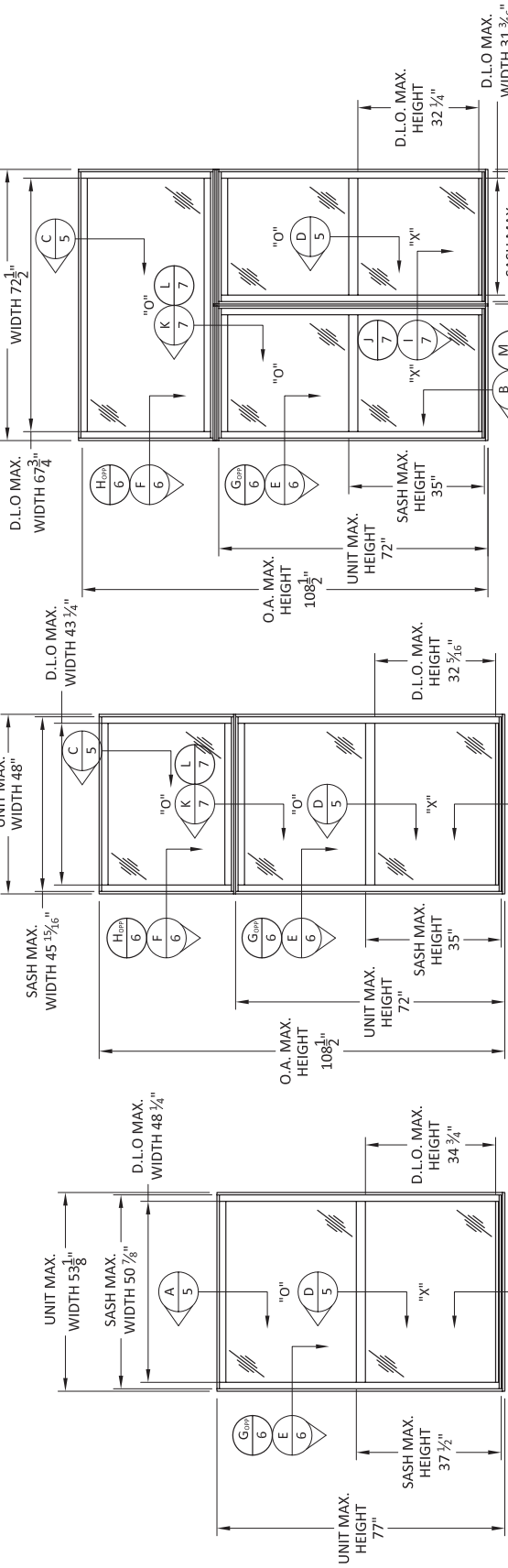
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DWG. #: ATR113

SECTION:

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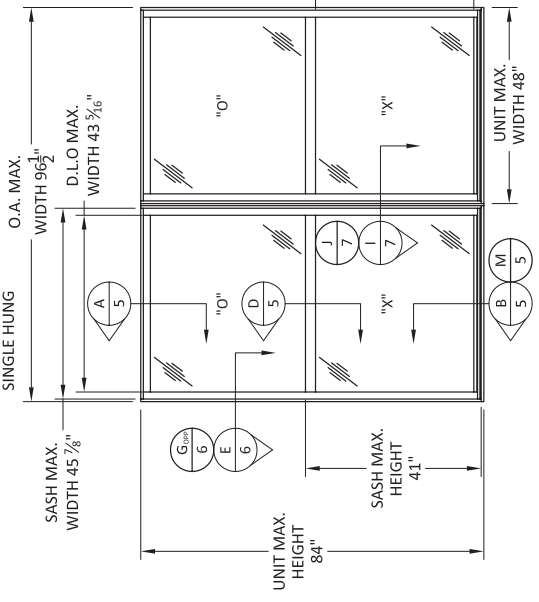
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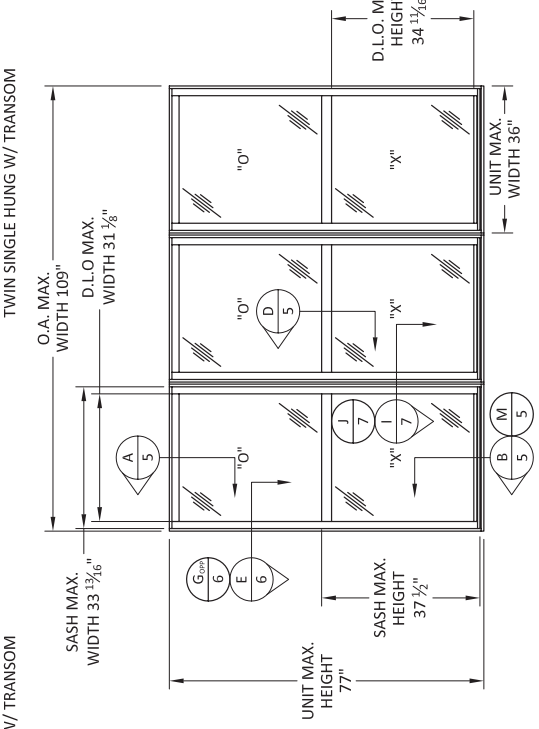
TYPICAL ELEVATION

TYPICAL ELEVATION

TYPICAL ELEVATION



TYPICAL ELEVATION



TYPICAL ELEVATION

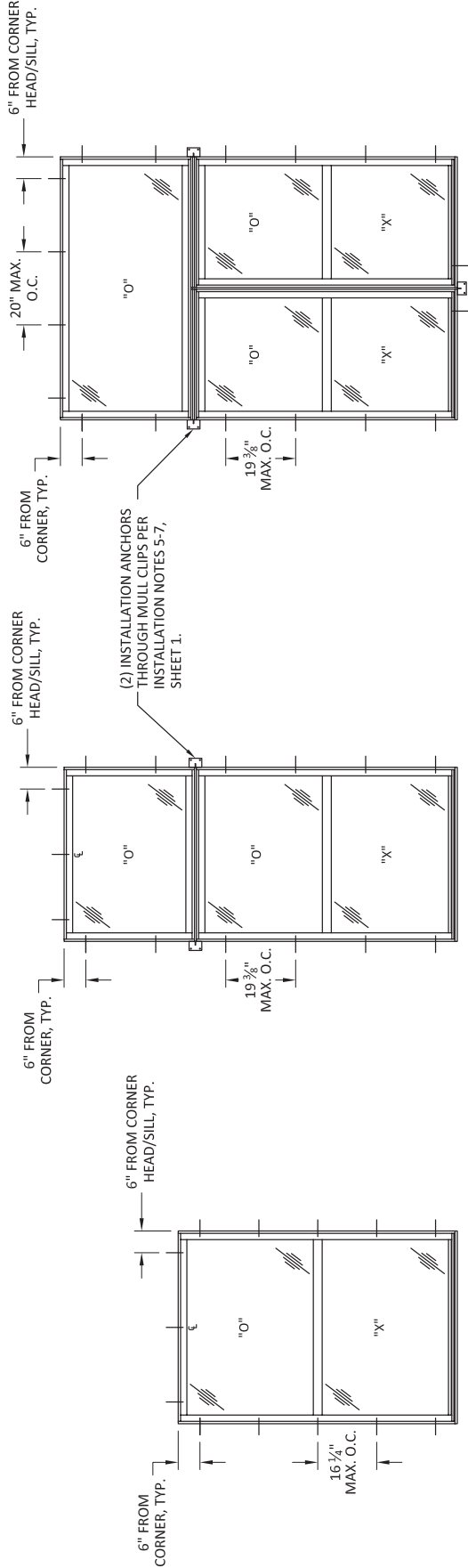
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B-CERT AGENCY UPDATE	LS	02.27.17
C-FBC 2017 CODE CHANGE	AG	10.03.17
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THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND ARE NOT TO BE USED AS A BASIS FOR SPECIFICATIONS OR CONTRACT DOCUMENTS DETAILED HEREIN. A LICENSED ENGINEER MUST REVIEW AND SIGN ALL CONTRACT DOCUMENTS FOR USE WITH THIS DOCUMENT.



HERMES F. NORERO, P.E.
REGISTERED PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
398 E. DAINIA BEACH BLVD., STE. 338
DAINIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

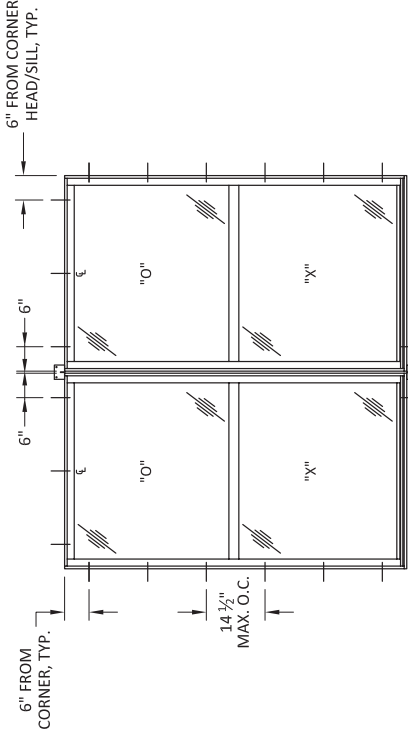
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DATE:	01.02.2020
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YC	HFN
SCALE:	NTS
DWG. #:	ATR113
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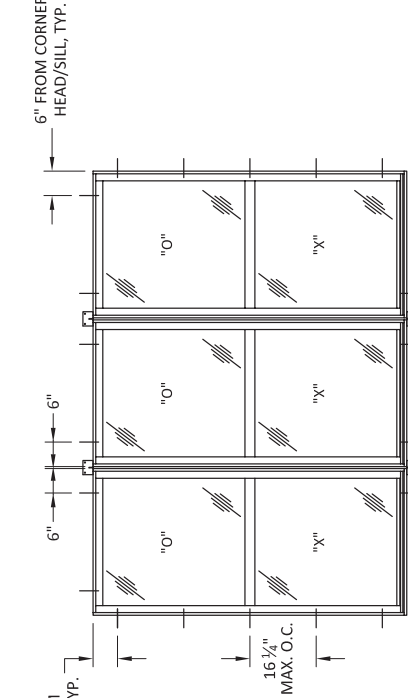
ANCHOR LAYOUT
SINGLE HUNG - THROUGH FRAME

ANCHOR LAYOUT
SINGLE HUNG W/ TRANSOM - THROUGH FRAME

ANCHOR LAYOUT
TWIN SINGLE HUNG W/ TRANSOM - THROUGH FRAME



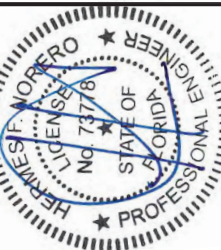
ANCHOR LAYOUT
MULLED TWIN SINGLE HUNG - THROUGH FRAME



ANCHOR LAYOUT
MULLED TRIPLE SINGLE HUNG - THROUGH FRAME

REMARKS	BY	DATE
A-FBC 5th ED. CODE CHANGE	SM	06.03.14
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HERMES F. NORERO, P.E.
FLORIDA PROFESSIONAL ENGINEER
No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL20100
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DWG. BY:	YC
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DWG. #:	ATR113
SECTION:	3



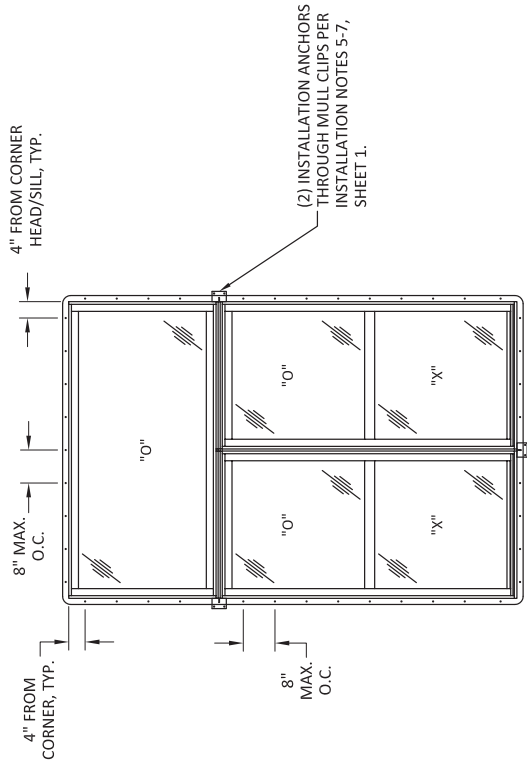
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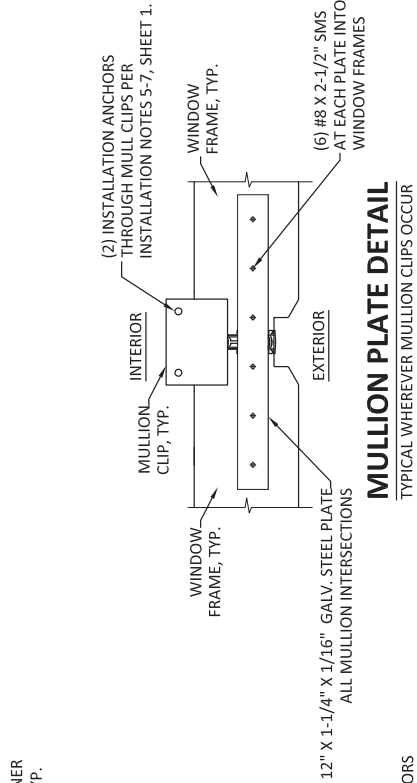


HERMES F. NORERO, P.E.
FLORIDA PROFESSIONAL ENGINEER
LICENSE NO. 73778
BUILDING DROPS, INC.
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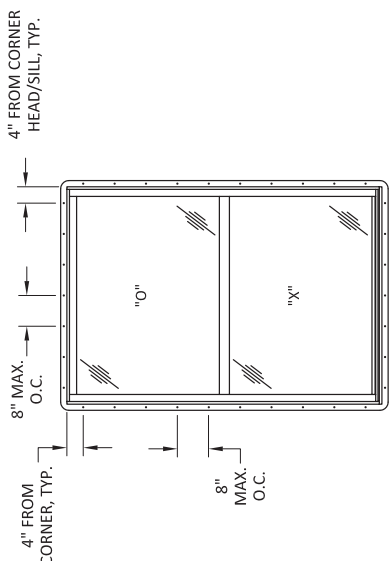
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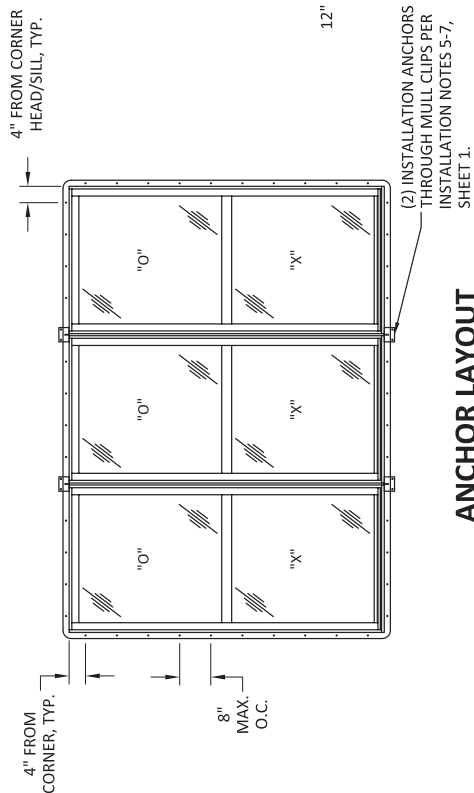
ANCHOR LAYOUT
TYP. FOR ALL SINGLE AND DOUBLE MULLLED UNITS WITH TRANSOM - THROUGH FIN



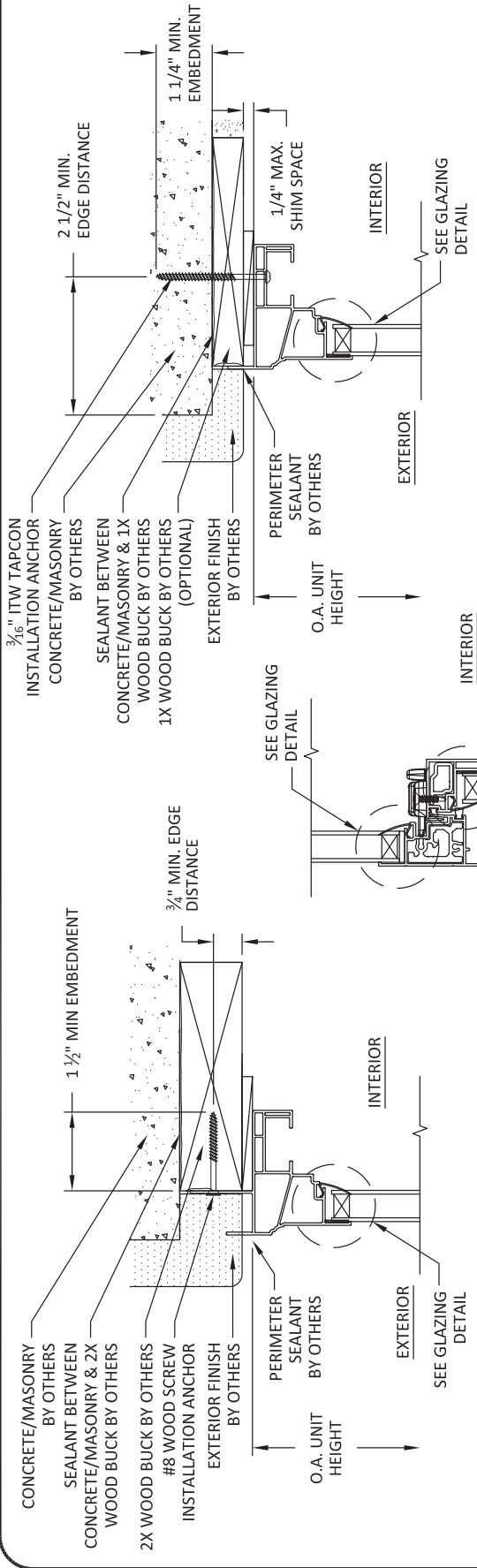
MULLION PLATE DETAIL
TYPICAL WHEREVER MULLION CLIPS OCCUR



ANCHOR LAYOUT
SINGLE HUNG - THROUGH FIN

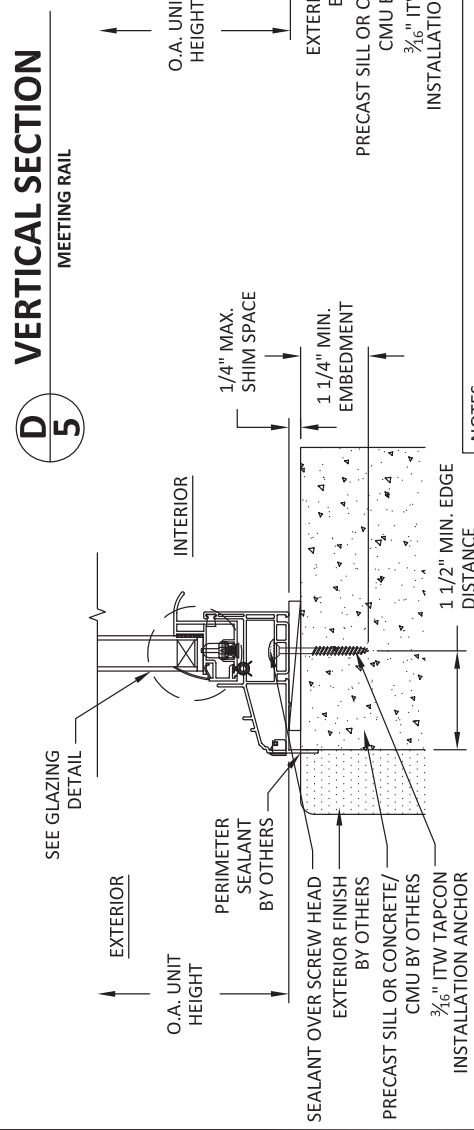


ANCHOR LAYOUT
TYP. FOR TWIN & TRIPLE MULLLED UNITS - THROUGH FIN

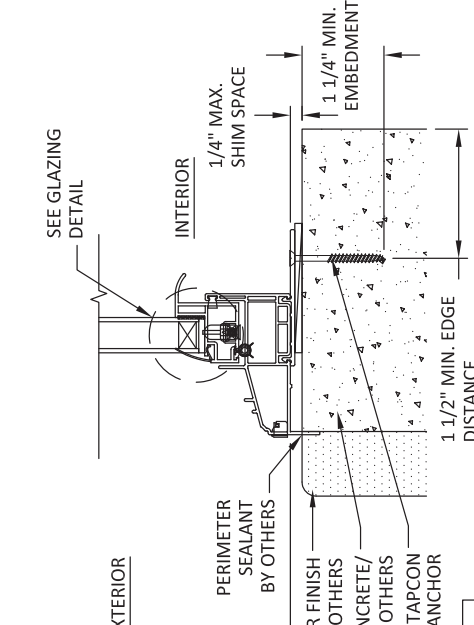


A **VERTICAL SECTION**
5 SINGLE HUNG HEAD - 2X WOOD BUCK THROUGH FIN

C **VERTICAL SECTION**
5 TRANSOM HEAD - 1X/CONC./MASONRY THROUGH FRAME



B **VERTICAL SECTION**
5 SILL - CONCRETE/MASONRY THROUGH FRAME

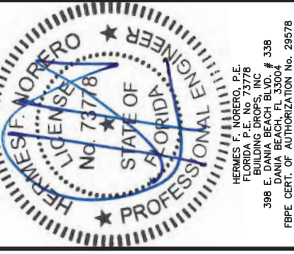


M **VERTICAL SECTION**
5 SILL - CONCRETE/MASONRY THROUGH SILL CLIP

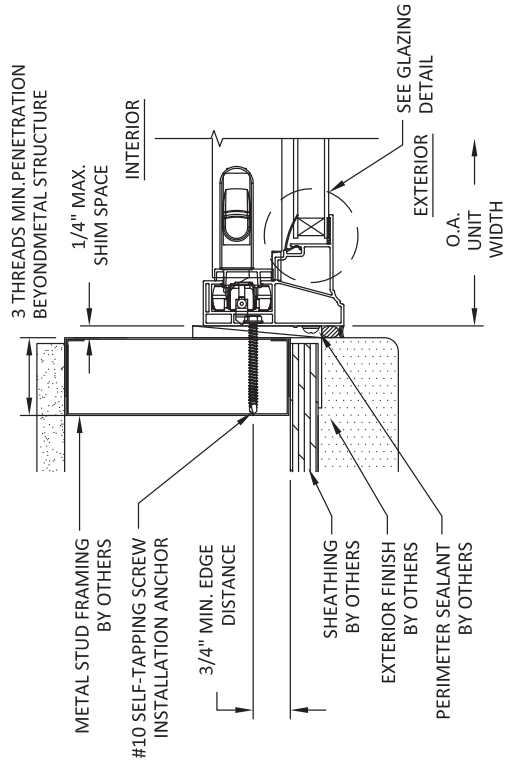
NOTES:
1. SILL ANCHORS ARE FOR FACTORY MULLED UNITS ONLY, SEE SHEET 3.
2. USE (1) SILL CLIP PER ANCHOR LOCATION. SILL CLIPS ARE TO BE USED IN MINIMUM 14 1/4" LENGTHS.

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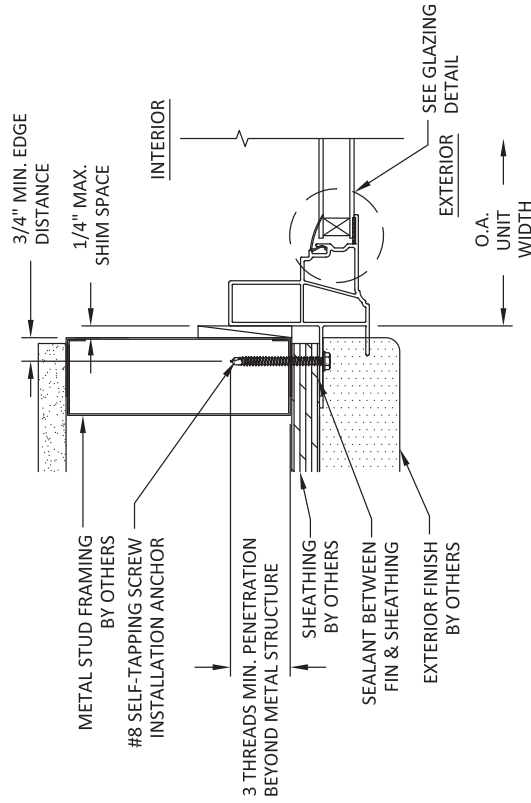
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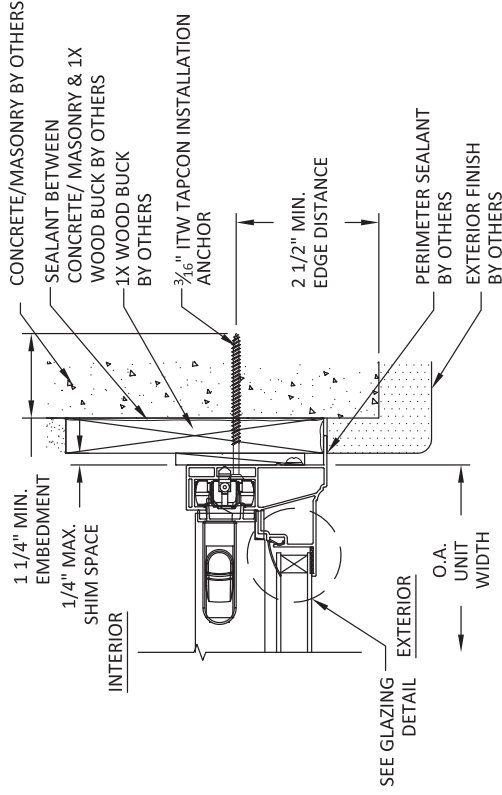
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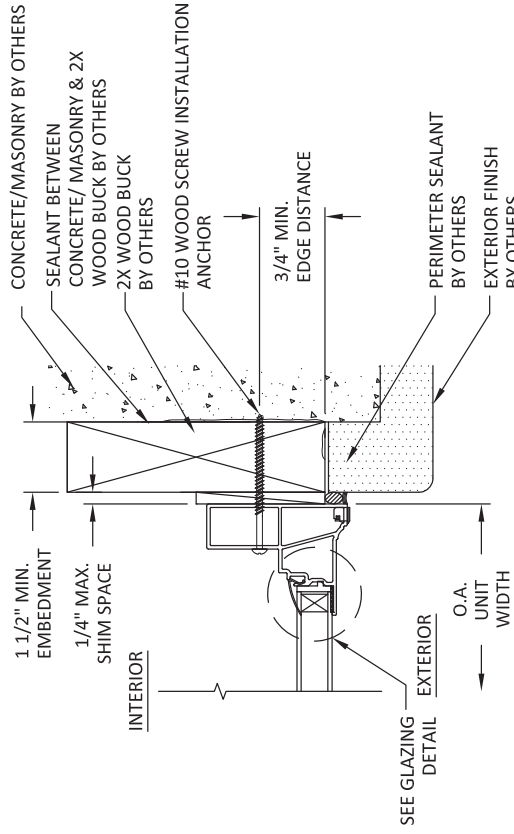
E **HORIZONTAL SECTION**
SINGLE HUNG JAMB - METAL STUD FRAME
THROUGH FRAME



F **HORIZONTAL SECTION**
TRANSOM JAMB - METAL STUD FRAME
THROUGH FIN



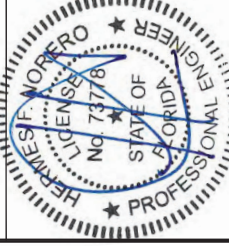
G **HORIZONTAL SECTION**
SINGLE HUNG JAMB - 1X WOOD/CONC./MASONRY
THROUGH FRAME



H **HORIZONTAL SECTION**
TRANSOM JAMB - 2X WOOD BUCK
THROUGH FRAME

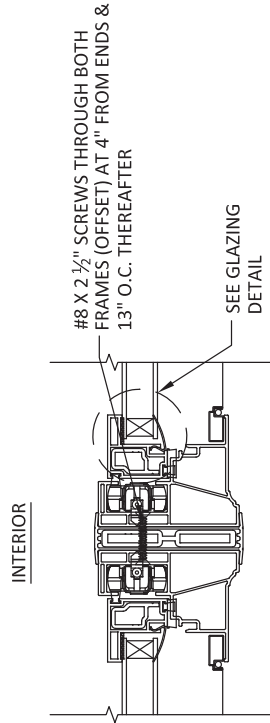
REMARKS	BY	DATE
A-FBC 5th ED. CODE CHANGE	SM	06.03.14
B-CERT AGENCY UPDATE	LS	02.27.17
C-FBC 2017 CODE CHANGE	AG	10.03.17
D-ALUMINUM SUBSTRATE	YC	04.16.20

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND ARE NOT TO BE USED AS A SUBSTITUTE FOR THE REQUIREMENTS DETAILED HEREIN. A LICENSED ENGINEER MUST REVIEW AND SIGN THESE DETAILS BEFORE ANY CONSTRUCTION BEGINS. THESE DETAILS ARE NOT TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN PERMISSION OF BUILDING DROPS, INC.



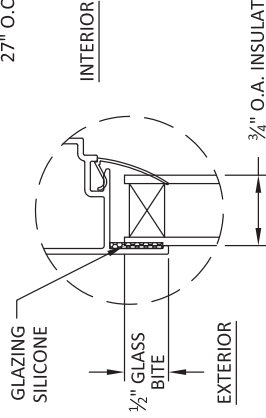
HERMES F. NORERO, P.E.
398 E. DAVIA BEACH BLVD., STE. 338
DAVIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL20100
DATE:	01.02.2020
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR113
SECTION:	

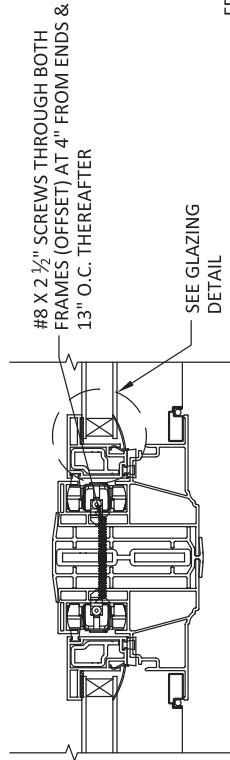


I HORIZONTAL SECTION
1/2" VERTICAL MULLION

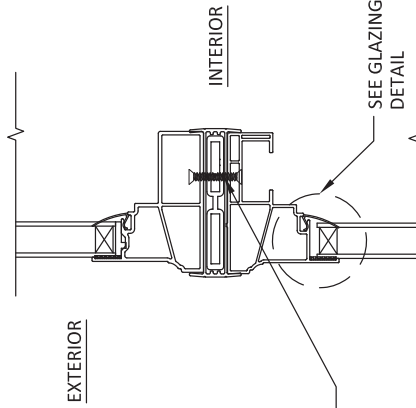
NOTE:
GLASS TYPE & THICKNESS SHALL MEET THE
REQUIREMENTS OF ASTM E 1300 GLASS
CHARTS AND SAFETY GLAZING REQUIREMENTS
OF FBC CHAPTER 24



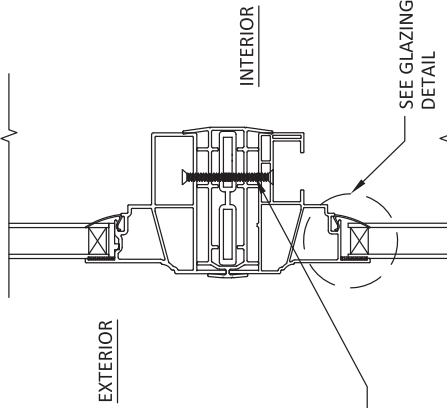
GLAZING DETAIL



J HORIZONTAL SECTION
1 1/4" VERTICAL MULLION
(OPTIONAL)



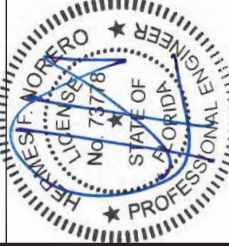
K VERTICAL SECTION
1/2" HORIZONTAL MULLION



L VERTICAL SECTION
1 1/4" HORIZONTAL MULLION
(OPTIONAL)

REMARKS	BY	DATE
A-FBC 5th ED. CODE CHANGE	SM	06.03.14
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C-FBC 2017 CODE CHANGE	AG	10.03.17
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HERMES F. NORERO, P.E.
10000 W. FLORIDA AVE.
SUITE 100
DANIA BEACH, FL 33004 338
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL20100
DATE:	01.02.2020
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR113
SECTION:	

FLORIDA DEPARTMENT OF
Business & Professional Regulation



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Product Approval
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Search Criteria

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Code Version	2020	FL#	20471.1
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL20471-R12 History	Revision	Atrium Windows & Doors FL#: FL20471.1 Model: Series 120/130 Description: Picture Window Category: Windows Subcategory: Fixed	National Accreditation & Management Institute (804) 684-5124	Approved *

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

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

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Product Approval Accepts:



ATRIUM COMPANIES, INC.

SERIES 120/130

VINYL FIXED WINDOW (NON HVHZ)(NON IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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 TO ACHIEVE A PLUMB AND LEVEL INSTALLATION WITH LOAD BEARING SHIM(S) LOCATE SHIMS ADJACENT TO ANCHORS WHEN USING THROUGH FRAME INSTALLATION. 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.
- THROUGH FRAME:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE $1 1/2"$ MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. SCREWS SHOULD BE INSTALLED WITH A MINIMUM OF $3/4"$ EDGE DISTANCE IN WOOD.
- THROUGH FRAME:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #10 SELF-DRILLING SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE. SCREWS SHOULD BE INSTALLED WITH A MINIMUM OF $3/4"$ EDGE DISTANCE IN METAL.
- THROUGH FRAME:** FOR INSTALLATION INTO CONCRETE/MASONRY USE $3/16"$ ITW TAPCON SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE $1 1/2"$ MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. SCREWS SHOULD BE INSTALLED WITH A MINIMUM OF $2 1/2"$ EDGE DISTANCE IN CONCRETE/MASONRY.
- THROUGH FIN:** FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE $1 1/2$ INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. SCREWS SHOULD BE INSTALLED WITH A MINIMUM OF $1/2"$ EDGE DISTANCE IN WOOD.
- THROUGH FIN:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #8 SELF TAPPING SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE. SCREWS SHOULD BE INSTALLED WITH A MINIMUM OF $1/2"$ EDGE DISTANCE IN METAL.
- 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. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 1.8 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM ALLOY 6063-T5. MIN. WALL THICKNESS OF $1/16"$ (0.0625").
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI
 - CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL & INSTALLATION NOTES
2	ELEVATIONS & ANCHOR LAYOUT
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS AND GLAZING DETAIL

GENERAL NOTES:

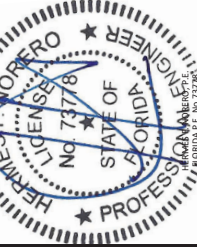
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/VDMA/CSA 101/I.S.2/A440-11
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE 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 BUCKS (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 IN NON-HVHZ AREAS.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: PVC
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAILS

- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL

MAX O.A. SIZE	DESIGN PRESSURE	INSTALLATION METHOD	GLAZING DETAIL	MISSILE IMPACT RATING
72" WIDTH	50 PSF POSITIVE	50 PSF NEGATIVE	FINLESS	NON-IMPACT
72" HEIGHT	50 PSF	50 PSF	FIN	
48" WIDTH	50 PSF	50 PSF	FINLESS	
48" HEIGHT	50 PSF	50 PSF	FIN	
96" WIDTH	50 PSF	50 PSF	FIN	

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.

Digitally signed by Hermes F. Norero
Reason: I am the author of this document
Date: 2020.12.08 10:09:03 -0500



398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33427
FIBC CERT. OF AUTHORIZATION No. 29578

FL #: **FL20471**

DATE: **02.24.2020**

DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **ATR133**

SECTION:

1

OF 4

TYPICAL ANCHOR LAYOUT

THROUGH FRAME



SERIES 120/130
MYL FIXED WINDOW
(H/HVHZ)(NON IMPACT)
VERTICAL SECTIONS



REMARKS	BY	DATE
2020 FBC UPDATE	NJUS	08.17.20

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FL #: FL20471

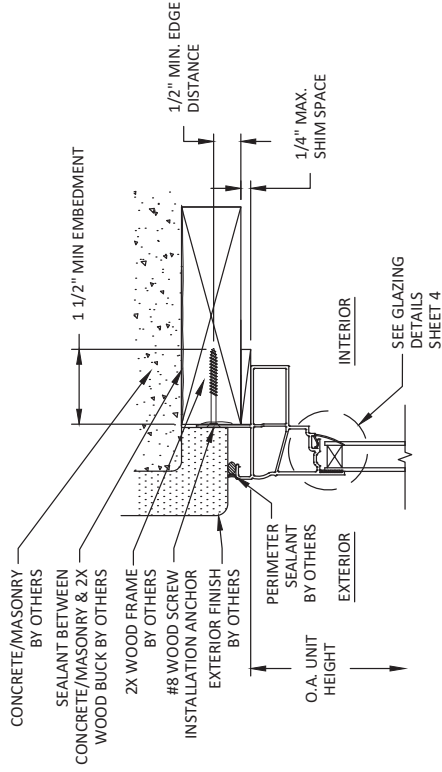
DATE: 02.24.2020	CHK. BY: J. F. F.
DWG. BY: C. A. F.	

SCALE: NTS

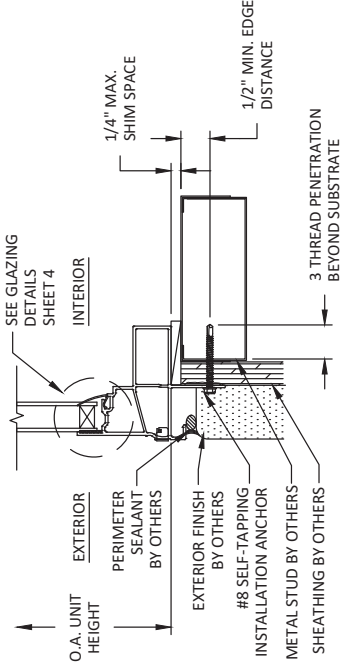
DWG. #: ATR133

SECTION:

3 OF 4

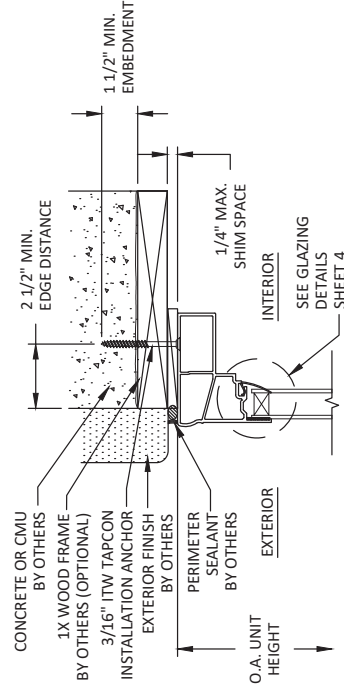


A **VERTICAL SECTION**
3 HEAD - 2X BUCK WITH CONCRETE/MASONRY
NAIL FIN INSTALLATION



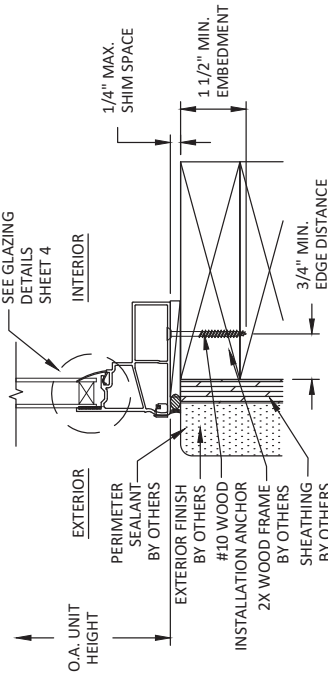
B 3 VERTICAL SECTION

SILL - METAL STUD FRAME NAIL FIN INSTALLATION



C **VERTICAL SECTION**

3 HEAD - 1X BUCK WITH CONCRETE/MASONRY THROUGH FRAME INSTALLATION



D **VERTICAL SECTION**
3 **SILL - 2X WOOD FRAME**
THROUGH FRAME INSTALLATION

ATRUM

WINDOWS AND DOORS

ATRIUM COMPANIES, INC.

300 Wilshire Center Blvd.

Wilmington, NC 27974

(800) 542-9118

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DAVIE, FL 33004

PH: (954) 996-8478

FAX: (954) 744-4738

WEB: www.buildingdrops.com

398 E. DANIA BEACH BLVD., STE. 338

DAVIE, FL 33004

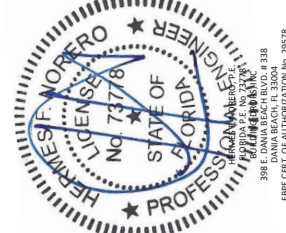
PH: (954) 996-8478

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WEB: www.buildingdrops.com

REMARKS	BY	DATE
2020 FBC UPDATE	NJS	08.17.20

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FL #:

FL20471

DATE:

02.24.2020

DWG. BY:

SM

CHK. BY:

HFN

SCALE:

NTS

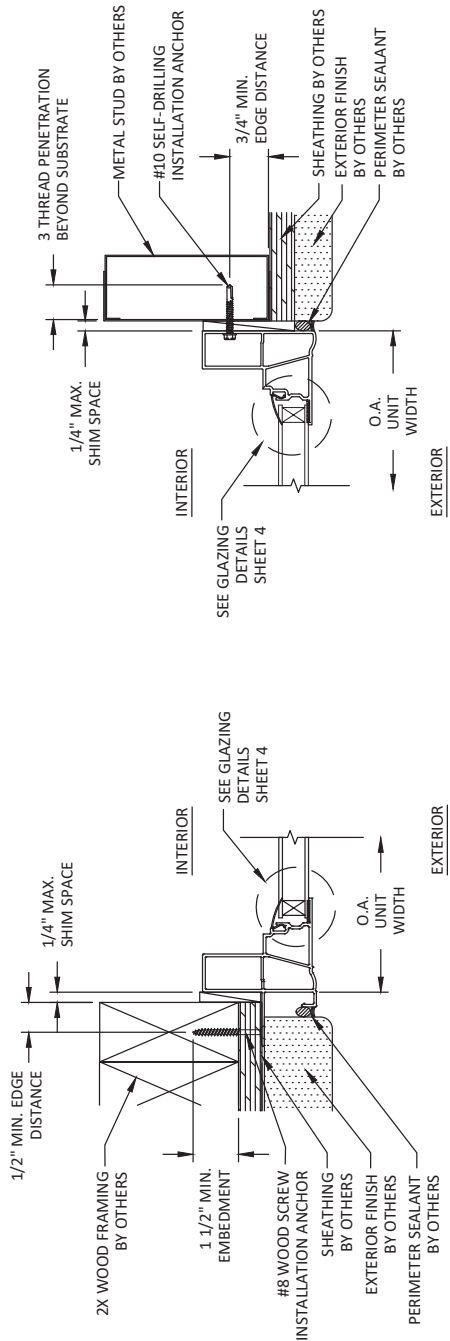
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ATR133

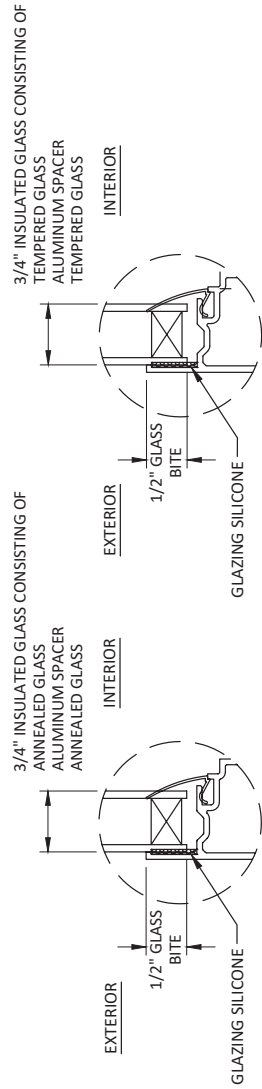
SECTION:

4

OF 4



A HORIZONTAL SECTION
JAMB - 2X WOOD FRAME
NAIL FIN INSTALLATION



B HORIZONTAL SECTION
JAMB - METAL STUD FRAME
THROUGH FRAME INSTALLATION

GLAZING DETAIL 1
(G1)

GLAZING DETAIL 2
(G2)

NOTE:
1. GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E1300 REQUIREMENT'S GLASS CHARTS.
2. ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CURRENT FBC