



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.

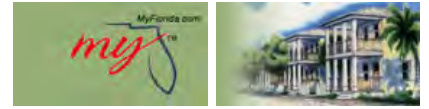
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	Reliabt	Single Hung Windows	20100.1
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED	Reliabt	Fixed Window	20471.1
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.

5/3/2023

APPLICANT SIGNATURE

DATE



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Product Approval
USER: Public User

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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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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)	<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 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 GR. 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/WDMA/CSA 101/1.S.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.

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
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5	D	VERTICAL SECTIONS
6	D	HORIZONTAL SECTIONS
7	D	MULLION DETAILS & GLAZING DETAIL

MAX O.A. SIZE		CONFIGURATION	DESIGN PRESSURE		MISSILE IMPACT RATING
WIDTH	HEIGHT		THROUGH FIN	THROUGH FRAME	
53"	77"	O/X	+/- 50 PSF	+/- 50 PSF	NON-IMPACT
48"	108 ½"	O / O/X	+/- 50 PSF	+/- 50 PSF	NON-IMPACT
72 ½"	108 ½"	O / DOUBLE O/X	+/- 50 PSF	+/- 50 PSF	NON-IMPACT
96 ½"	84"	DOUBLE O/X	+/- 35 PSF	+/- 50 PSF	NON-IMPACT
109"	77"	TRIPLE O/X	+/- 50 PSF	+/- 50 PSF	NON-IMPACT

ATRIUM

WINDOWS AND DOORS

9001 AMBASSADOR ROW
DALLAS, TEXAS 75247

PH: (214)637-2696 FAX: (214)424-6734

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

PREPARED BY:

INSTALLATION & GENERAL NOTES

SINGLE HUNG WINDOW

SERIES 130

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 Hermes F. Norero
Reason: I am approving this document
Date: 2020.04.17 15:00:38 -0400

HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL20100

DATE: 01.02.2020

DWG. BY: YC

CHK. BY: HFN

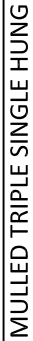
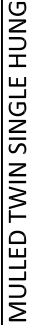
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DWG. #: ATR113

SECTION:

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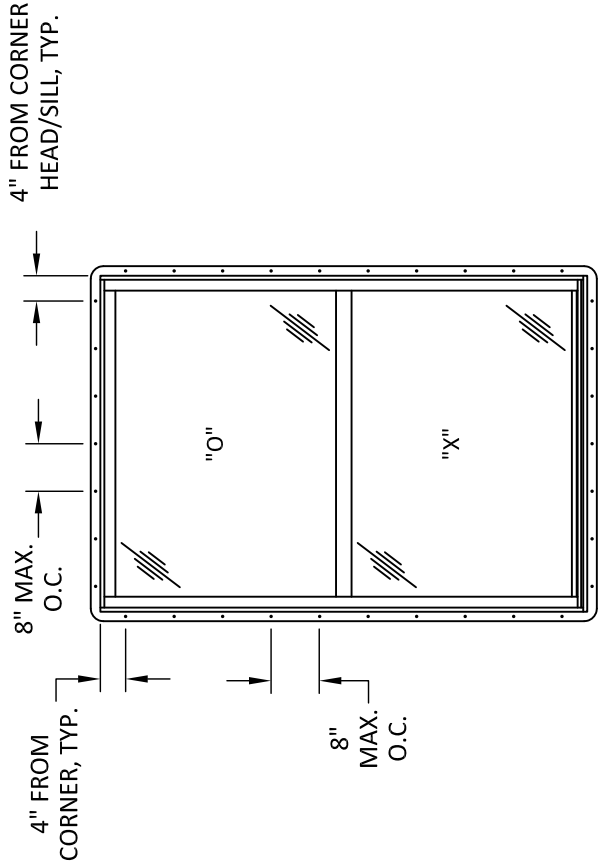
OF 7



FL20100

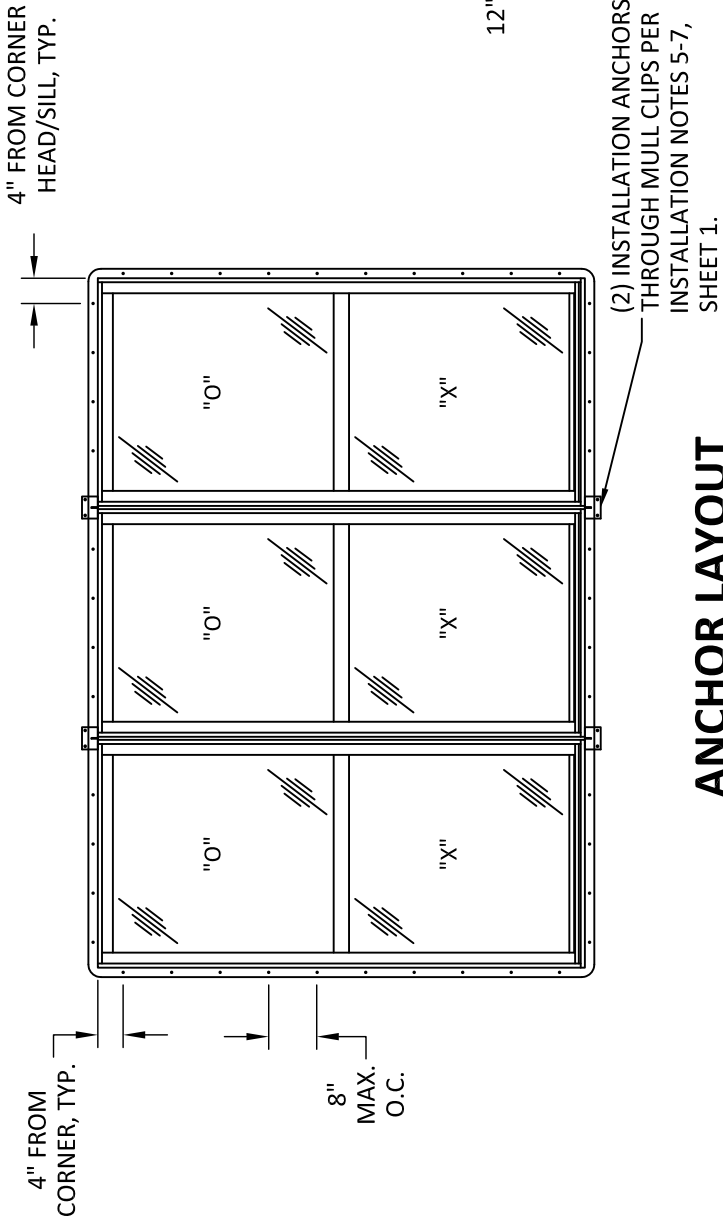
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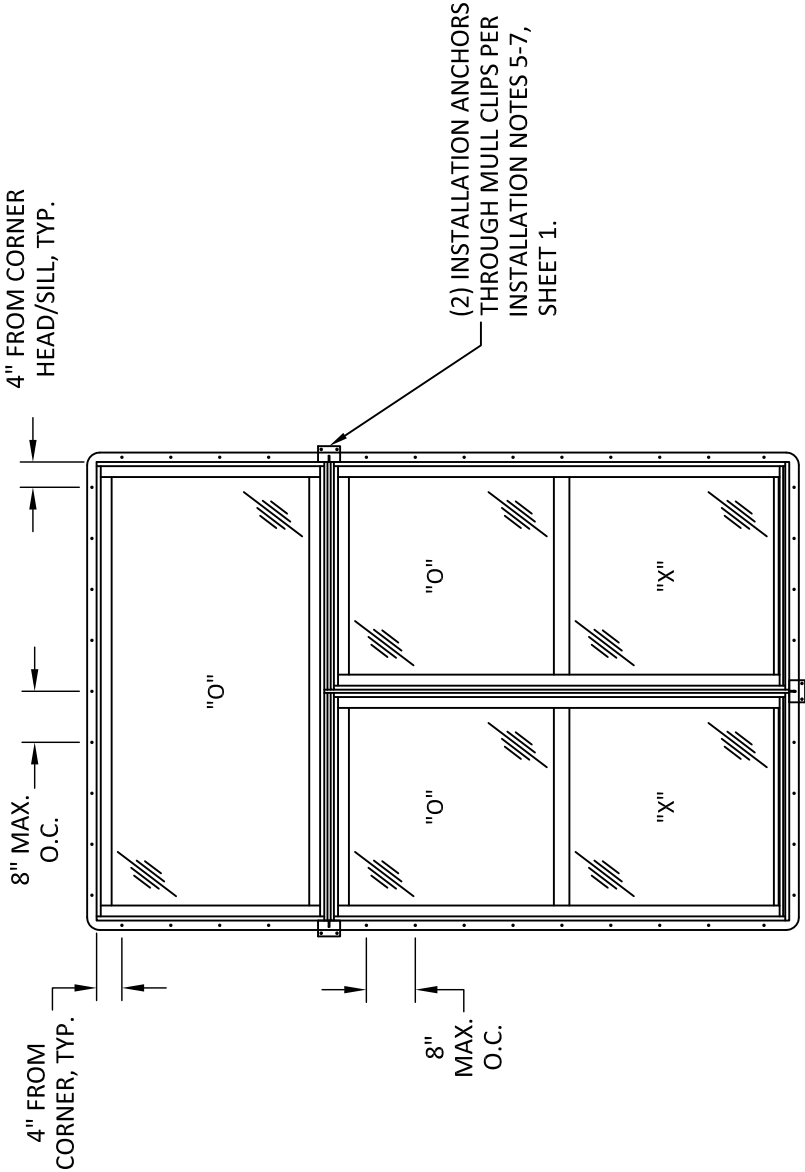
ANCHOR LAYOUT

SINGLE HUNG - THROUGH FIN



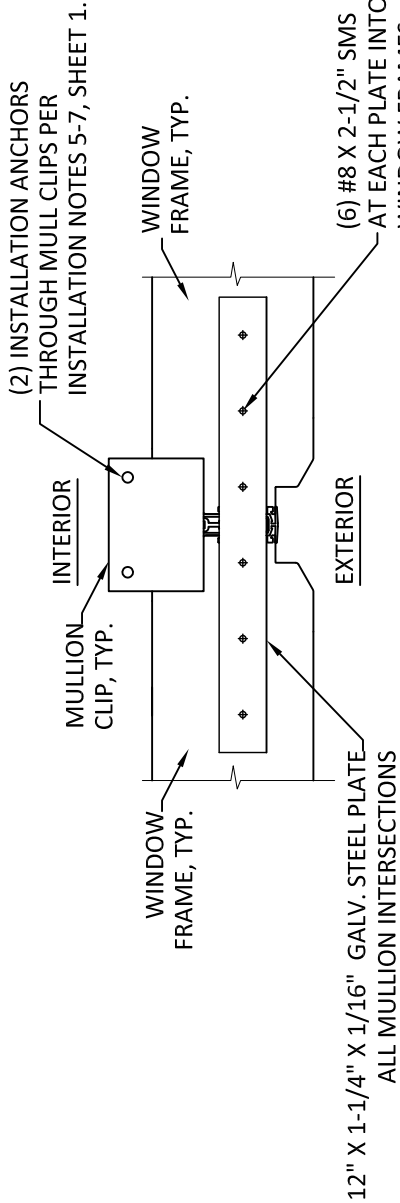
ANCHOR LAYOUT

TYP. FOR TWIN & TRIPLE MULLED
UNITS - THROUGH FIN



ANCHOR LAYOUT

TYP. FOR ALL SINGLE AND DOUBLE MULLED
UNITS WITH TRANSOM - THROUGH FIN



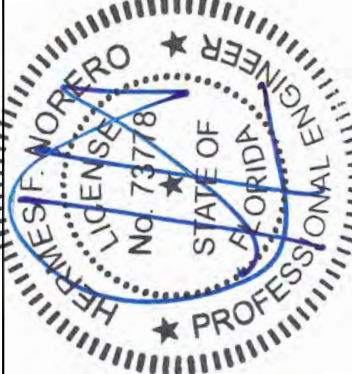
MULLION PLATE DETAIL

TYPICAL WHEREVER MULLION CLIPS OCCUR



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

FL #: **FL20100**

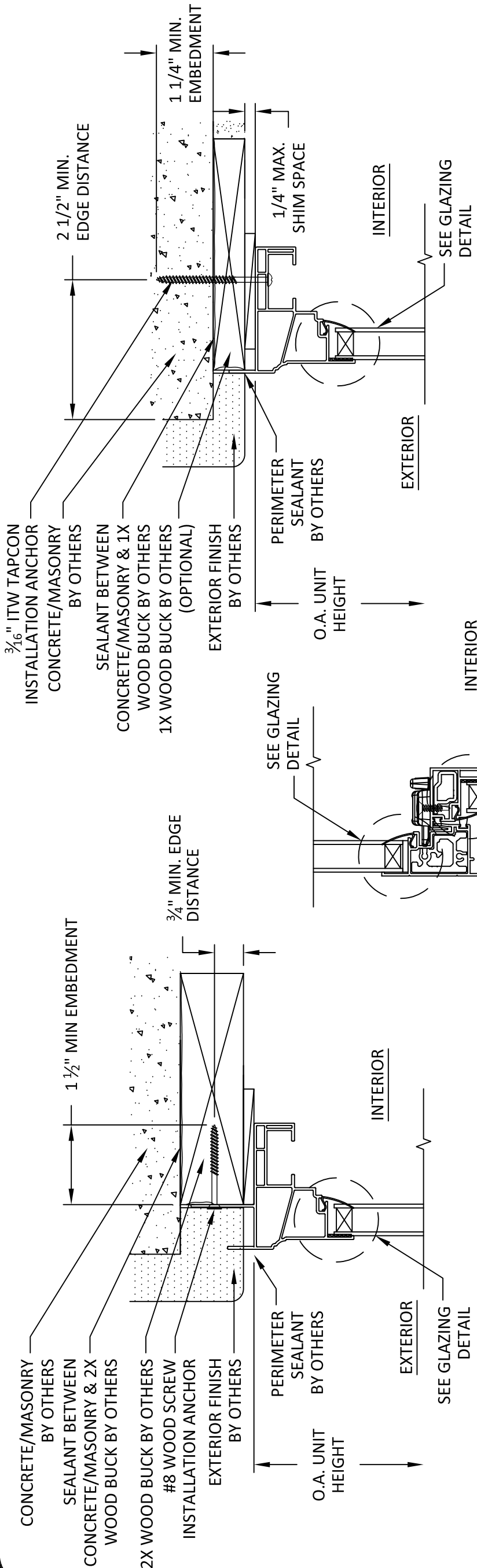
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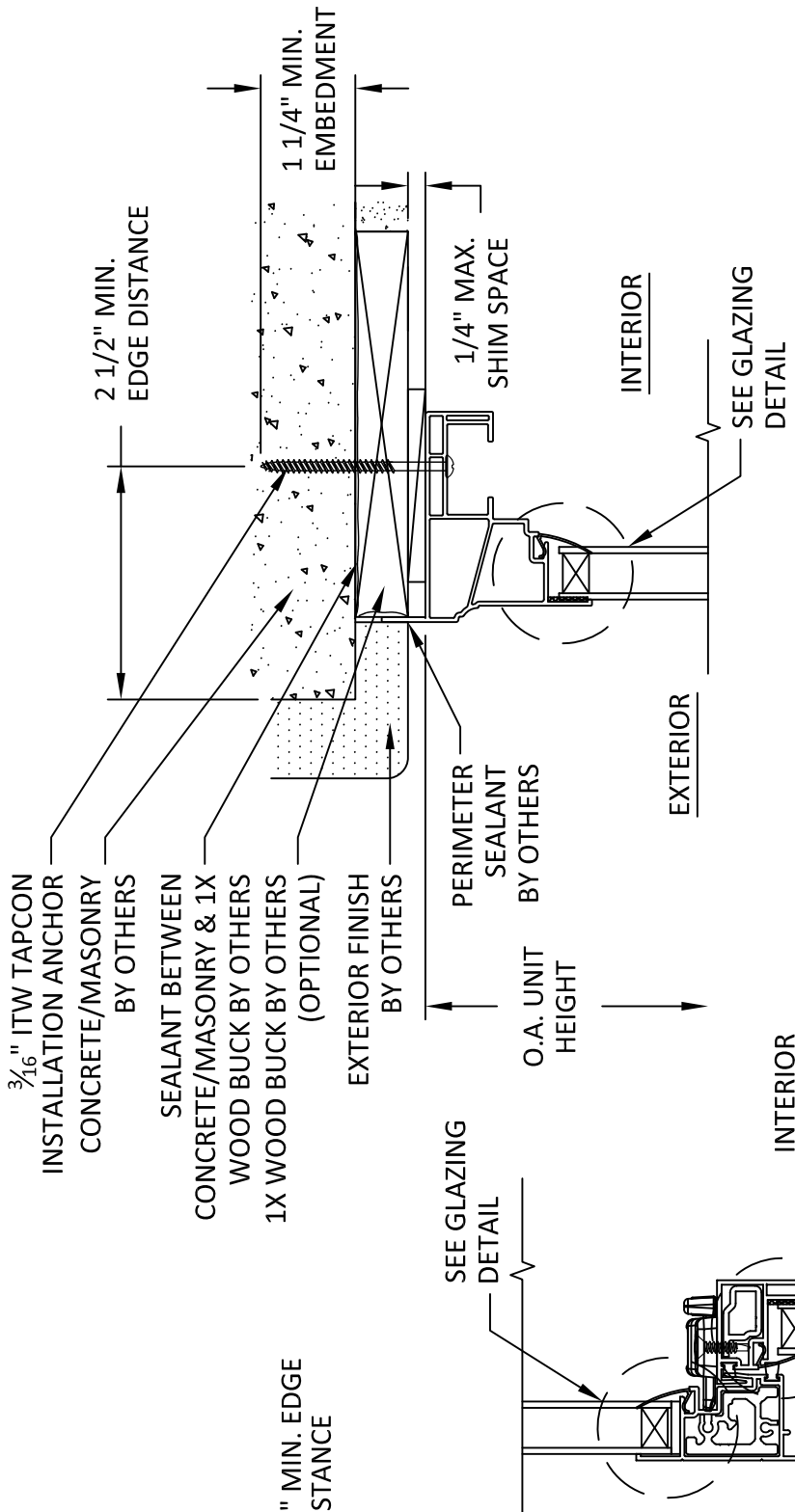
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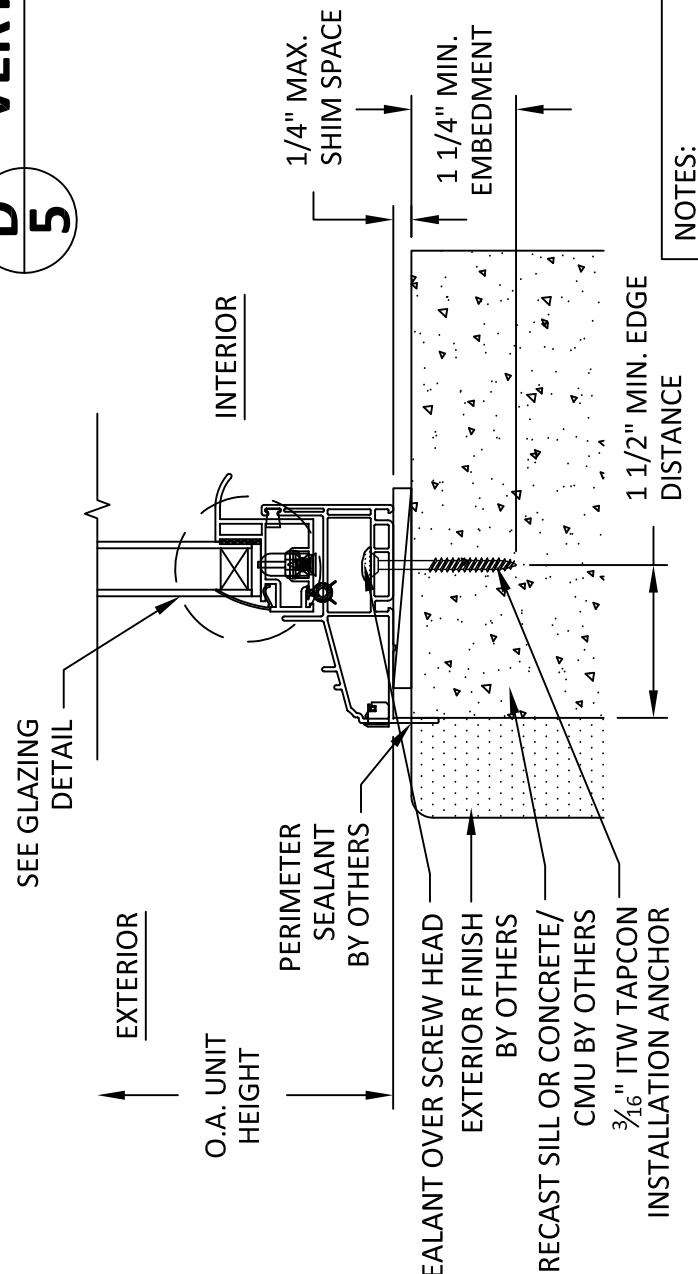


A
5
VERTICAL SECTION
SINGLE HUNG HEAD - 2X WOOD BUCK
THROUGH FIN

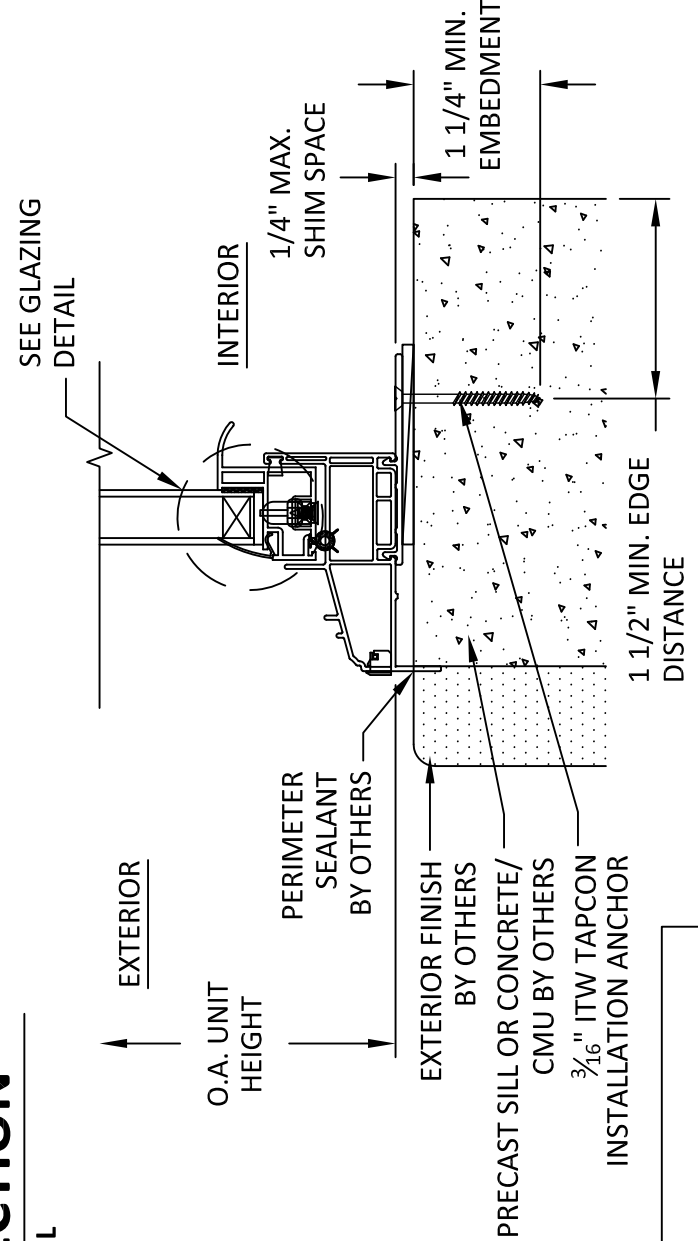


C
5
VERTICAL SECTION
TRANSOM HEAD - 1X/CONC./MASONRY
THROUGH FRAME

D
5
VERTICAL SECTION
MEETING RAIL



B
5
VERTICAL SECTION
SILL - CONCRETE/MASONRY
THROUGH FRAME



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

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



ATR^{ium}
WINDOWS AND DOORS

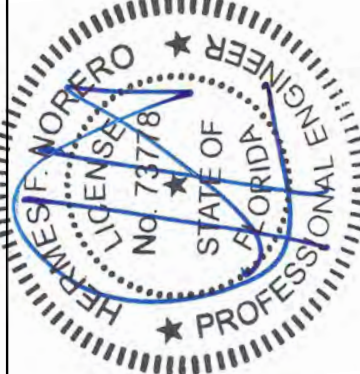
ATRIUM WINDOWS AND DOORS
9001 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214)637-2696 FAX: (214)424-6734

TITLE:
SERIES 130
SINGLE HUNG WINDOW
VERTICAL SECTIONS

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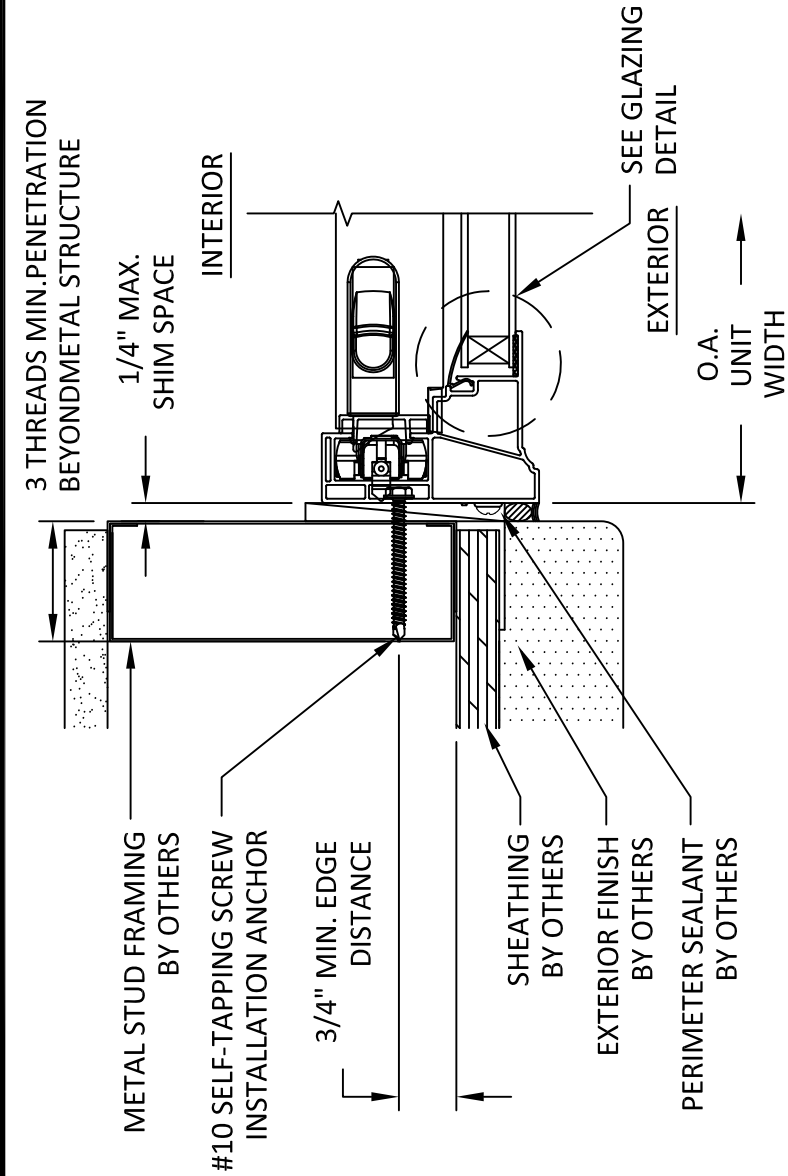
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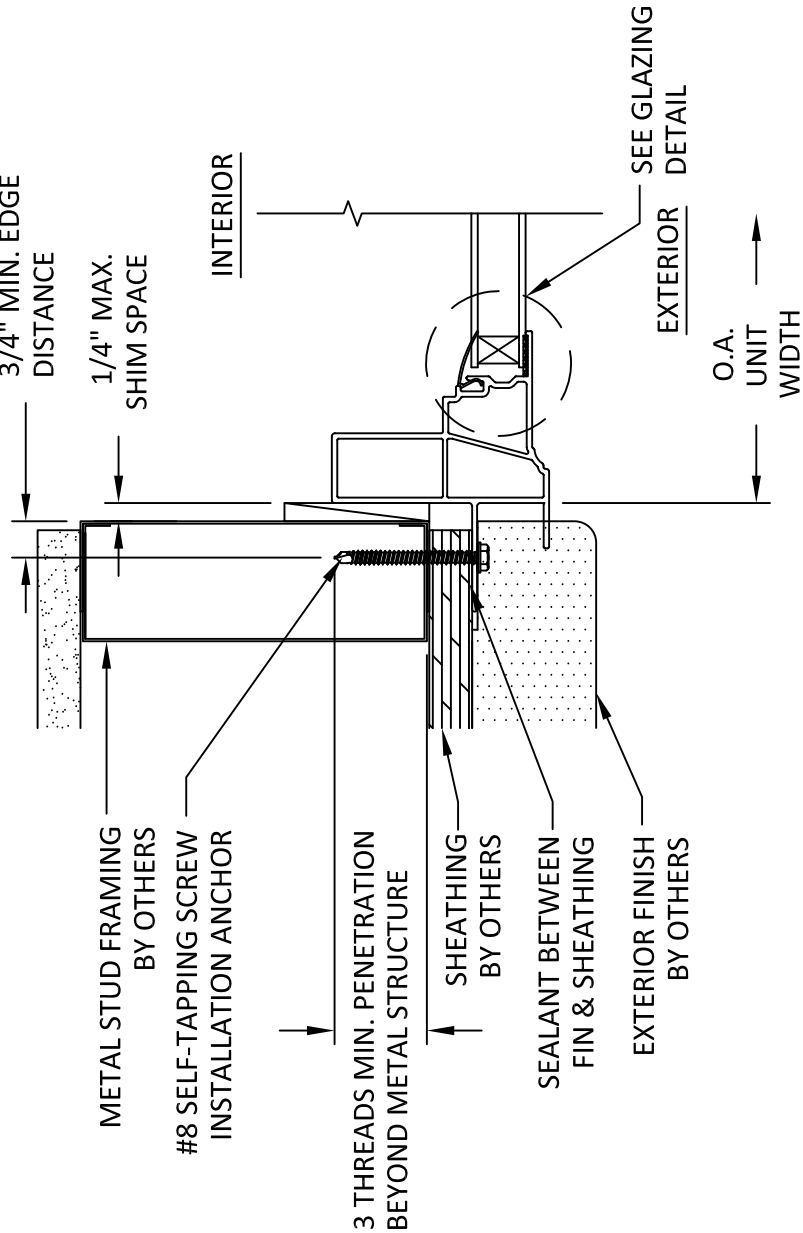
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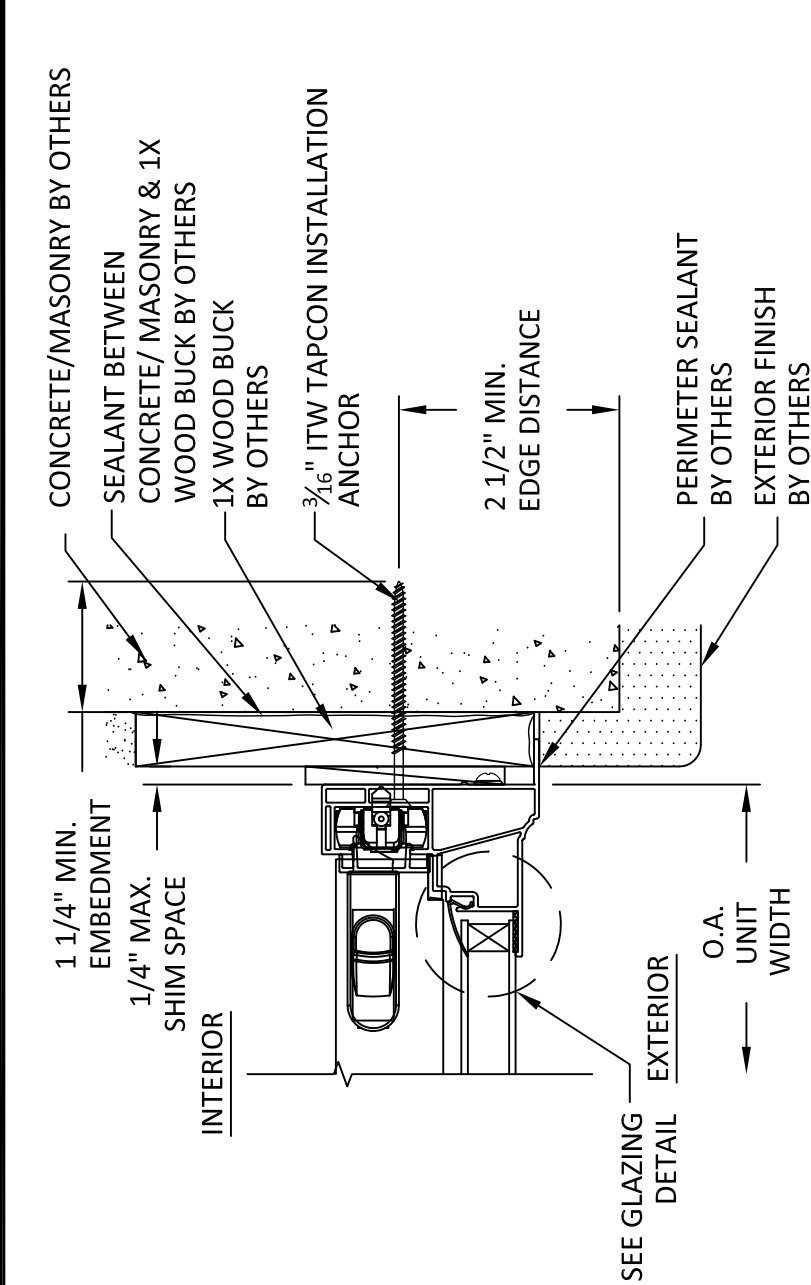
E HORIZONTAL SECTION

6 SINGLE HUNG JAMB - METAL STUD FRAME THROUGH FRAME



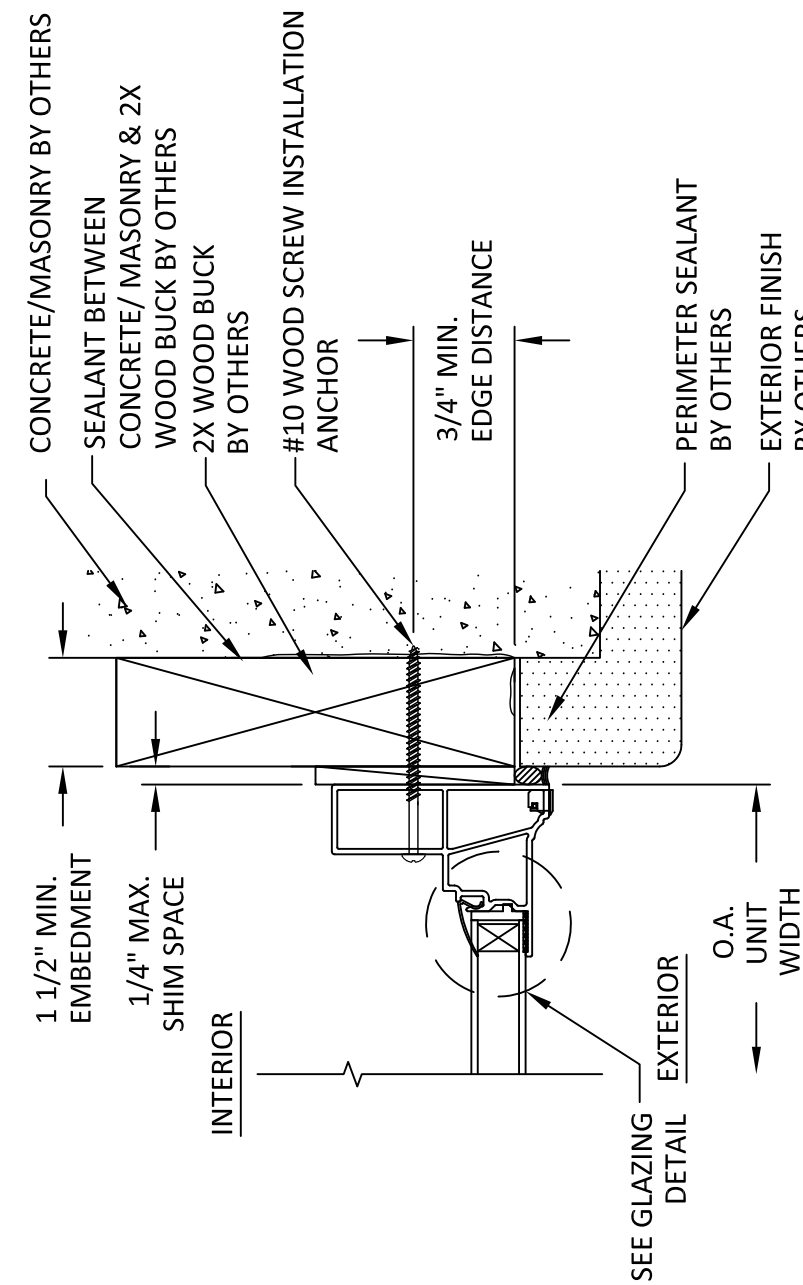
F HORIZONTAL SECTION

6 TRANSOM JAMB - METAL STUD FRAME THROUGH FIN



G HORIZONTAL SECTION

6 SINGLE HUNG JAMB - 1X WOOD/CONC./MASONRY THROUGH FRAME

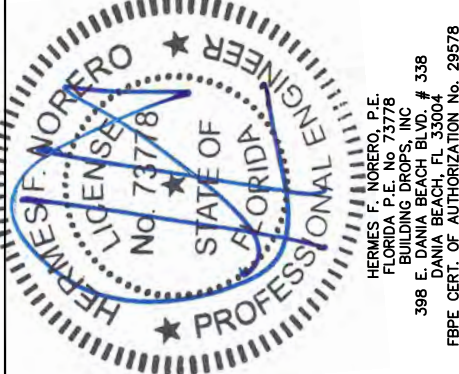


H HORIZONTAL SECTION

6 TRANSOM JAMB - 2X WOOD BUCK THROUGH FRAME

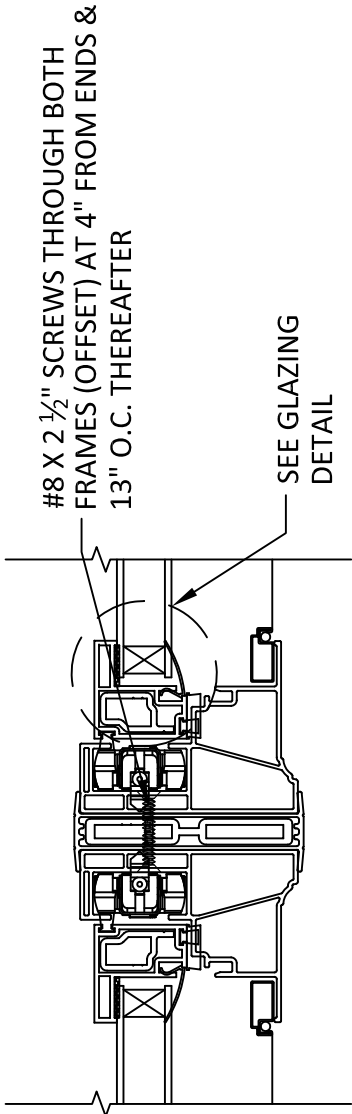
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SCALE:	NTS		
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SECTION:			

INTERIOR

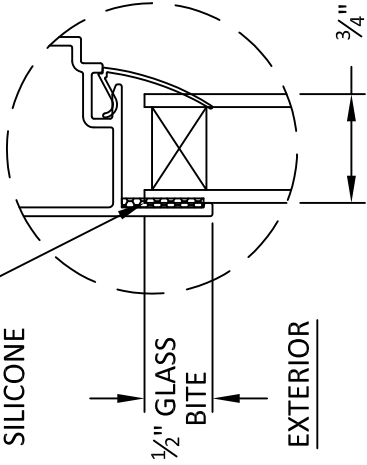


EXTERIOR

I HORIZONTAL SECTION 7 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 SILICONE

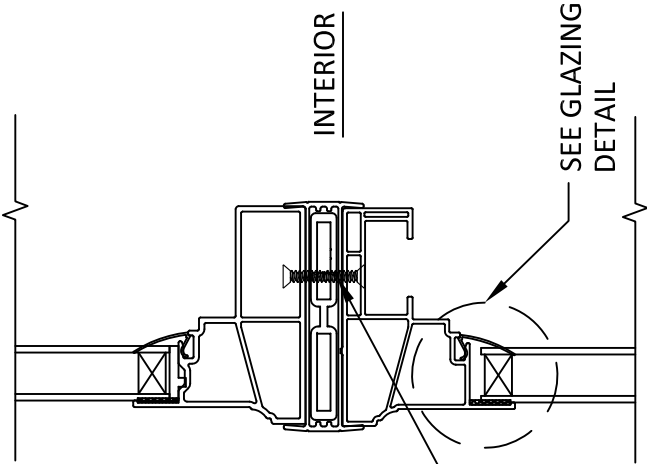


#8 X 2 1/2" SCREWS THROUGH BOTH FRAMES (OFFSET) AT 4" FROM ENDS & 27" O.C. THEREAFTER

INTERIOR

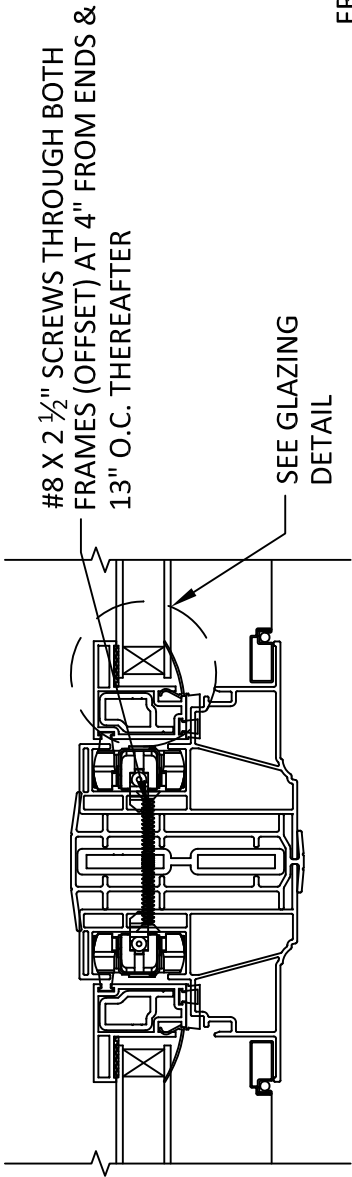
K VERTICAL SECTION 7 1/2" HORIZONTAL MULLION

EXTERIOR



INTERIOR

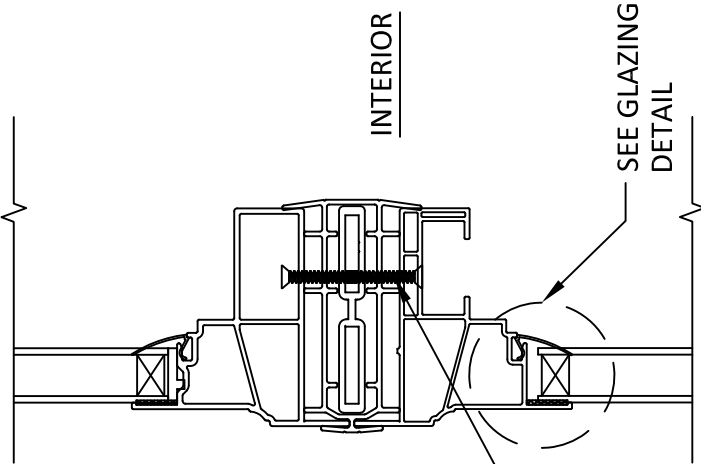
INTERIOR



EXTERIOR

J HORIZONTAL SECTION 7 1 1/4" VERTICAL MULLION (OPTIONAL)

EXTERIOR



INTERIOR

L VERTICAL SECTION 7 1 1/4" HORIZONTAL MULLION (OPTIONAL)

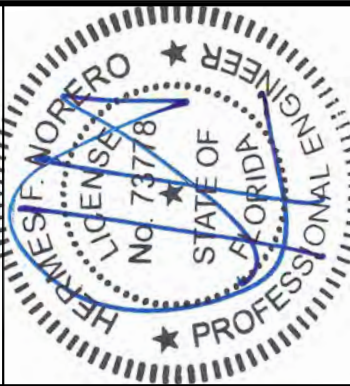


PREPARED BY:

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

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.



HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 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:

7

FLORIDA DEPARTMENT OF
Business & Professional Regulation



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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#	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 18 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 101/1.5.2/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	GLAZING	MISSILE IMPACT
WIDTH	POSITIVE	METHOD	DETAIL	RATING
72"	50 PSF	FINLESS		
72"	50 PSF	FIN	G2	
48"	50 PSF	FINLESS		
48"	50 PSF	FIN	G1	
96"	50 PSF	FIN	G2	NON-IMPACT



TYPICAL ANCHOR LAYOUT

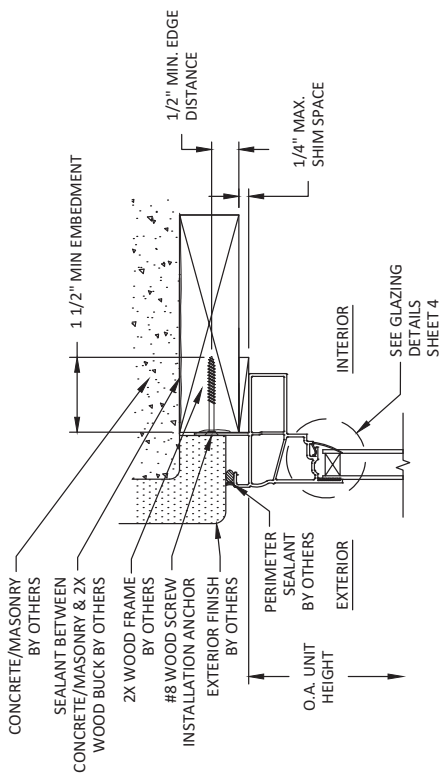
THROUGH FRAME

REMARKS	BY	DATE
2020 FBC UPDATE	NJS	08.17.20

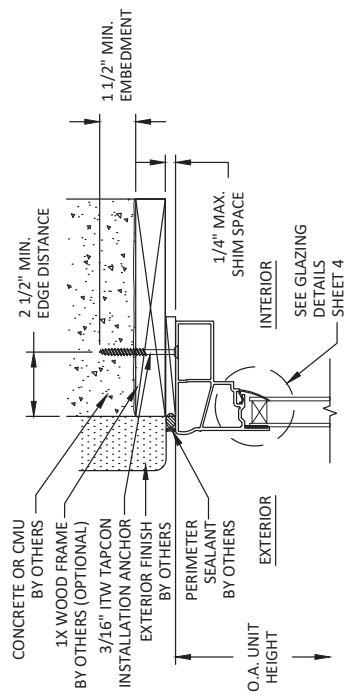
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC IN NATURE AND ARE NOT TO BE USED FOR ANY SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER MUST REVIEW AND APPROVE ANY DEVIATION. THIS DOCUMENT IS FOR USE WITH THIS DOCUMENT.



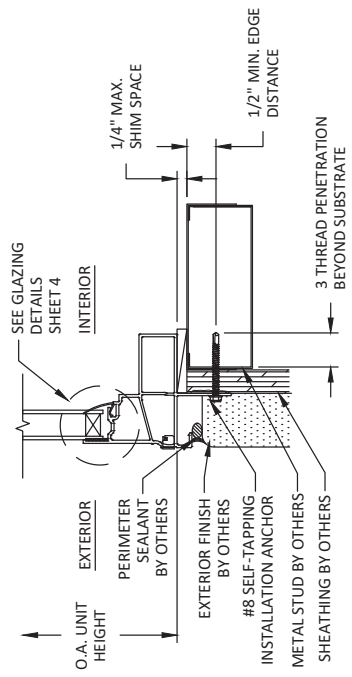
FL #: **FL20471**
DATE: **02.24.2020**
DWG. BY: **SM** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **ATR133**
SECTION: **3**



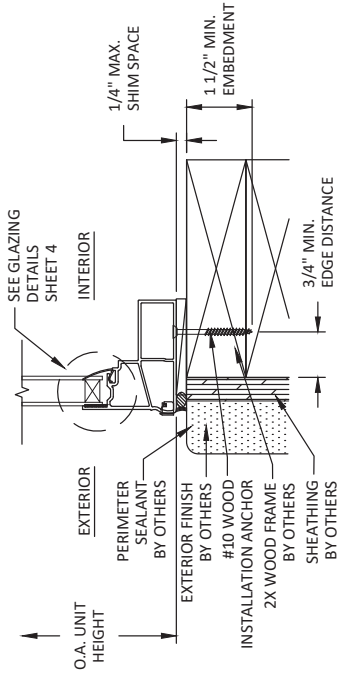
A VERTICAL SECTION
3 HEAD - 2X BUCK WITH CONCRETE/MASONRY NAIL FIN INSTALLATION



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



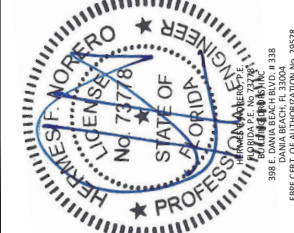
B VERTICAL SECTION
3 SILL - METAL STUD FRAME NAIL FIN INSTALLATION



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

REMARKS	BY	DATE
2020 FBC UPDATE	NJS	08.17.20

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
AND NOT TO BE USED FOR ANY SPECIFIC PROJECT WITHOUT THE
APPROVAL OF THE DESIGNER. THE DESIGNER SHALL BE
RESPONSIBLE FOR VERIFYING THE REQUIREMENTS DETAILED HEREIN, AND FOR
OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE
APPLICABLE ADOPTING AGENCY. THE USER SHALL BE RESPONSIBLE
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FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE
APPLICABLE ADOPTING AGENCY.



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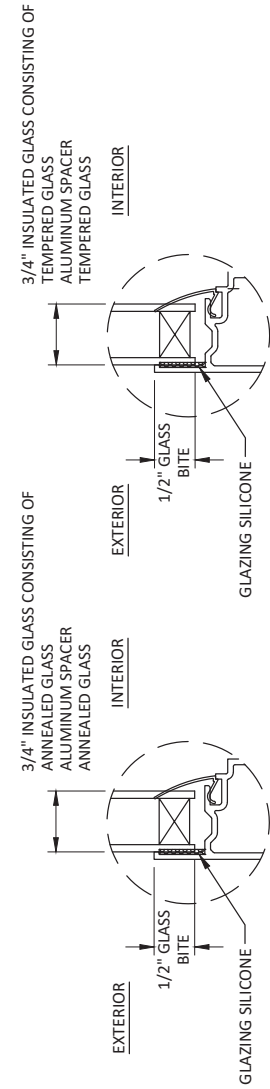
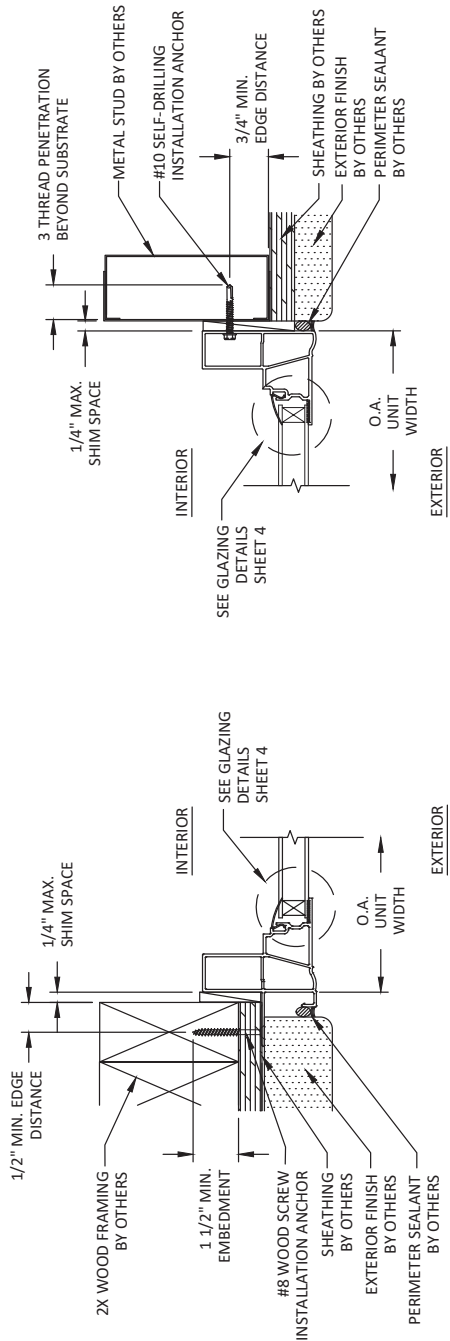
DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **ATR133**

SECTION: **4**

OF 4



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