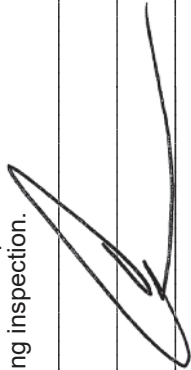


COLUMBIA COUNTY PRODUCT APPROVAL SPECIFICATION SHEET

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 20100.2
B. HORIZONTAL SLIDER	ReliaBilt	Slider Window	20472.1
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS	Atrium	Mullion	22377.1
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.



2/6/2023

APPLICANT SIGNATURE

DATE



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

Search Criteria

Code Version	2020	FL#	20100.1
Application Type	ALL	Product	Manufacturer
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		

[Refine Search](#)

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL20100-R11	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 Accepts:





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

► OFFICE OF THE SECRETARY

FL #
Application Type
Code Version
Application Status

FL20100-R11
Affirmation
2020
Approved

Comments
Archived

☐

Product Manufacturer
Address/Phone/Email

Atrium Windows & Doors
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
Address/Phone/Email

Luanne Harris
300 Welcome Center Blvd.
Welcome, NC 27374
(800) 542-9118 Ext 413596
luanne.harris@cornerstone-bb.com

Category
Subcategory

Windows
Single Hung

Compliance Method

Certification Mark or Listing

Certification Agency
Validated By

National Accreditation & Management Institute
National Accreditation & Management Institute

Referenced Standard and Year (of Standard)

Standard	Year
AAMA 450	2010
AAMA/WDMA/CSA 101/1.S.2/A440	2011
AAMA/WDMA/CSA 101/1.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

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

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 $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (1.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 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 1/4" TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4" EMBEDMENT.
7. **THROUGH FRAME:** FOR INSTALLATION INTO METAL STUD OR APPROVED 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 WOOD FRAMING 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 9000 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" (0.0025").

SINGLE HUNG WINDOW

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 450-10
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND X2 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. X1 AND X2 BRUCCS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BRUCC 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: PC
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 F FOR GLAZING DETAIL.

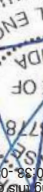
MISSILE IMPACT	THROUGH FRAME FIN	CONFIGURATION	MAX O.A. SIZE	
			HEIGHT	WIDTH
NON-IMPACT	+/- .50 PSF	O/X	77"	53"
NON-IMPACT	+/- .50 PSF	O/X	108 1/2"	48"
NON-IMPACT	+/- .50 PSF	O / DOUBLE O/X	108 1/2"	72 1/2"
NON-IMPACT	+/- .50 PSF	DOUBLE O/X	84"	96 1/2"
NON-IMPACT	+/- .50 PSF	TRIPLE O/X	77"	109"

TITLE: SERIES 130 SINGLE HUNG WINDOW	
INSTALLATION & GENERAL NOTES	
PREPARED BY: BUILDING DEVS., INC. 398 E. DANIA BEACH BLVD., STE. 308 DANIA BEACH, FL 33004 PH: (954)399-8478 FAX: (954)214-4738 WEB: www.buidingdevs.com	
9001 AMBASSADOR COURT DALLAS, TEXAS 75247 PH: (214)637-2696 FAX: (214)242-6734	

REMARKS	
BY	DATE
SM	06.03.14
LS	02.27.17
AG	10.03.17
YC	04.16.20

The installation details described herein are generic from the requirements casted elsewhere. A LICENSED ENGINEER ON ARCHITECT SHALL PREPARE THE SPECIFIC DOCUMENT FOR USE WITH THIS DOCUMENT.

Digitaly signed by: Thomas F. Moreno
 Date: 2020.10.17 5:00:38 PM
 License No. 73778
 State of Florida



HERNANDEZ F. MORENO, P.E.
 398 E. DANIA BEACH BLVD.,
 338 DANIA BEACH, FL 33004
 FBPE CERT. OF AUTHORIZATION NO. 29578

FL #:

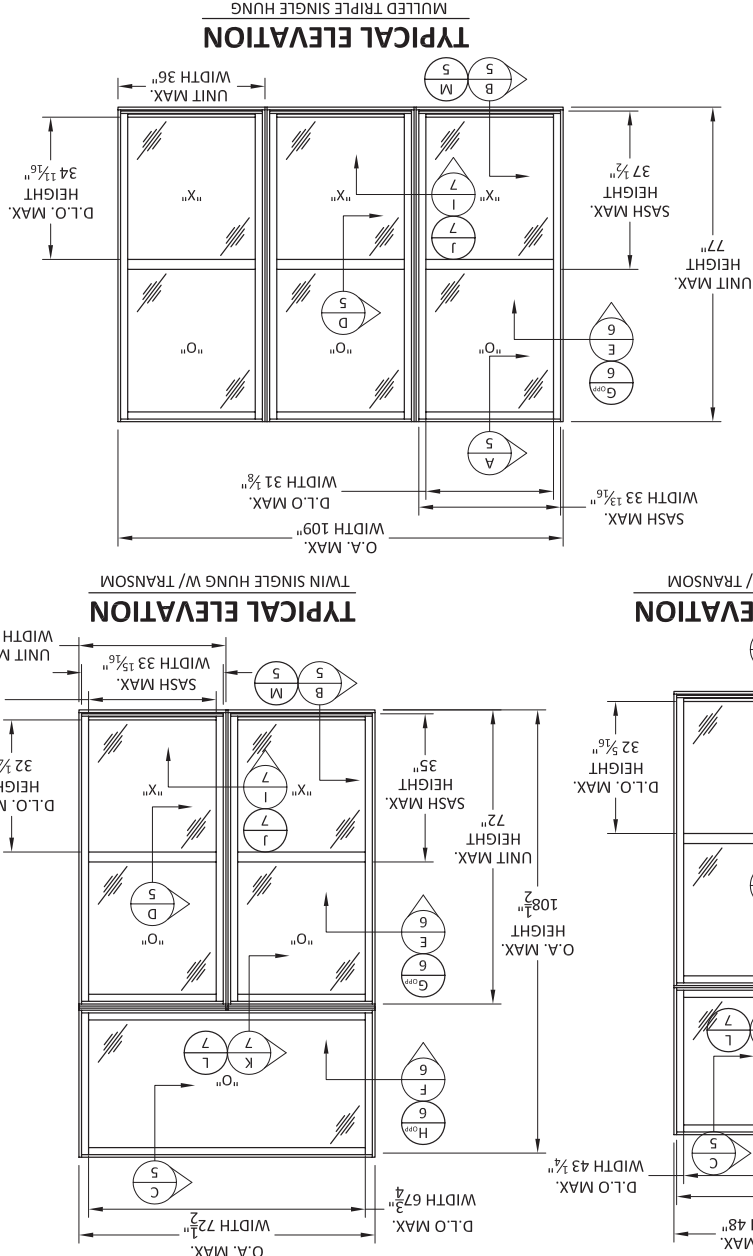
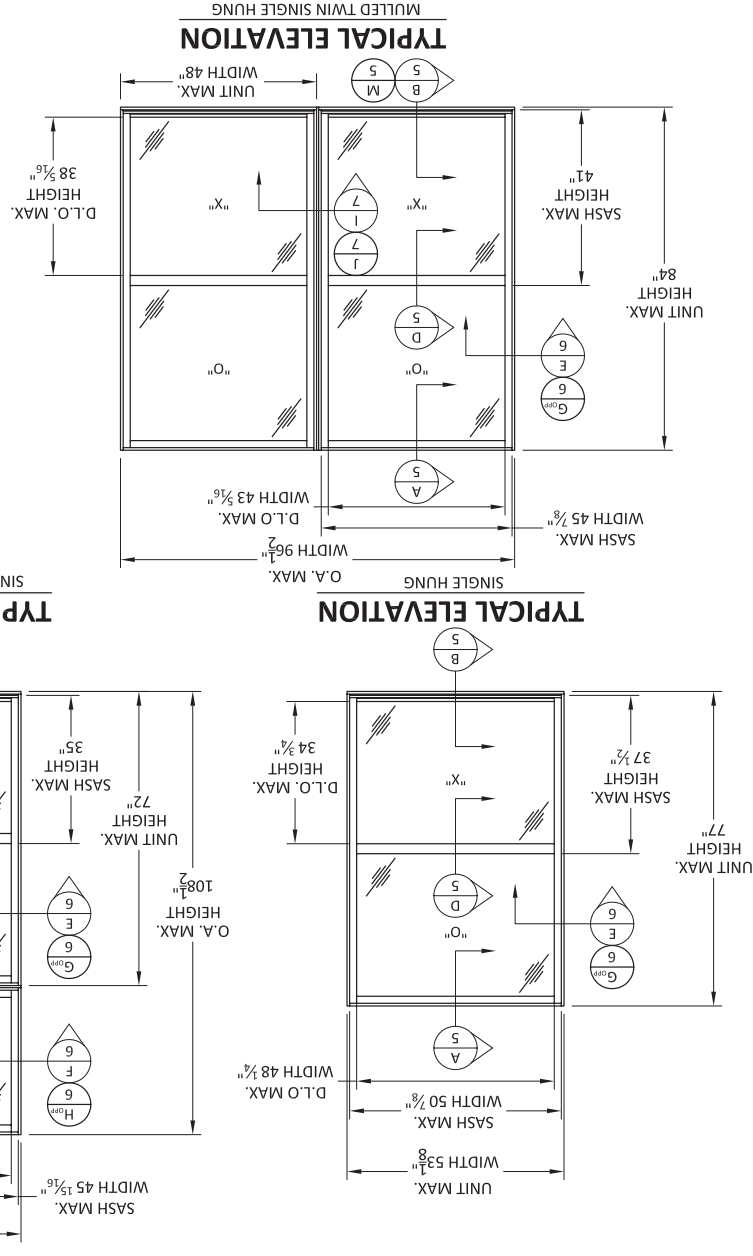
F2020100

DATE: 01.02.2020

DWG. BY: YC
 CHK. BY: HFN

SCALE: NTS
 DWG. #: ATR113

SECTION:



ATRIUM WINDOWS AND DOORS

9001 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214)637-2696 FAX: (214)624-6734

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)744-7478
FAX: (954)744-7478
WEB: www.buildingdrops.com

REMARKS

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

FL20100

DATE: 01.02.2020

DWG. BY: YC

CHK. BY: HFN

SCALE: NTS

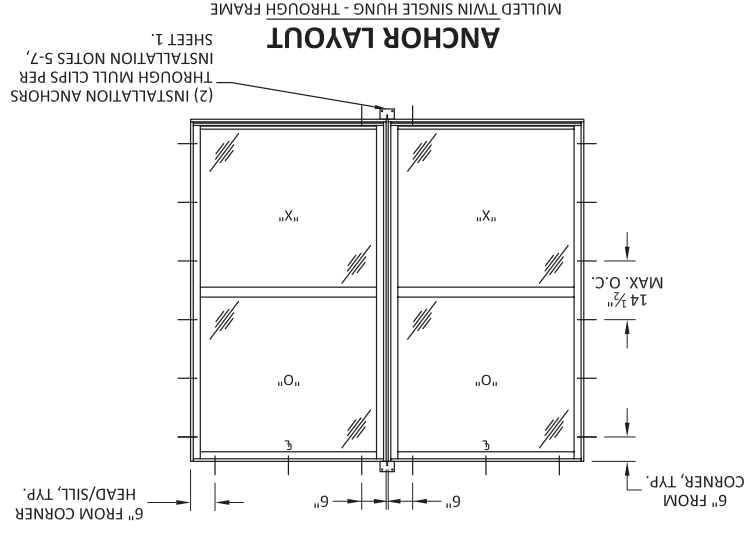
DWG. #: ATR113

SECTION: OF 7

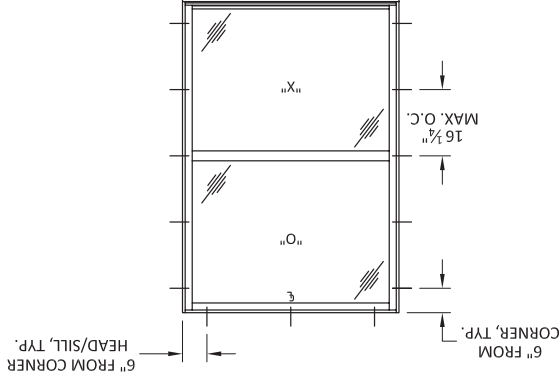
FL #:

HERMES F. NOBRE, P.E.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
BUILDING DROPS, INC.
FLORIDA P.E. NO. 73776
FBC CERT. OF AUTHORIZATION NO. 29576

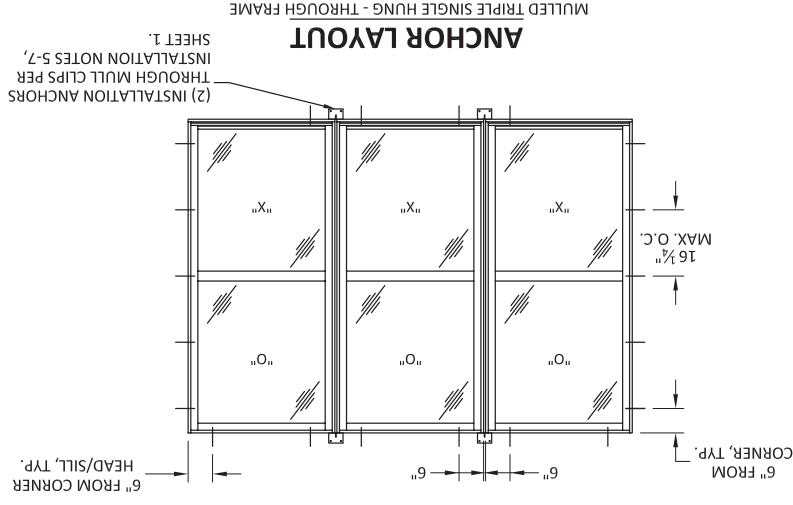
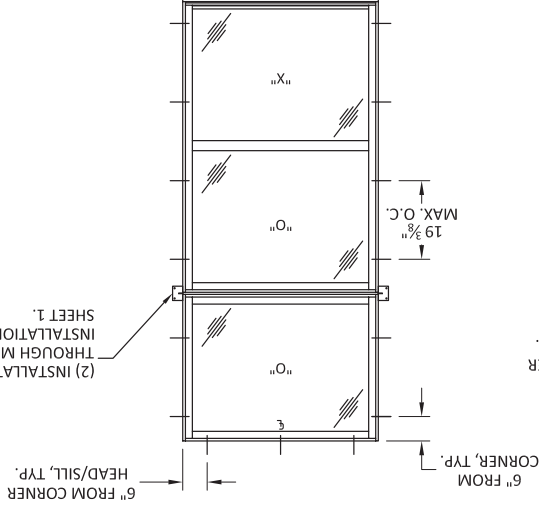
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO. 73776
HERMES F. NOBRE



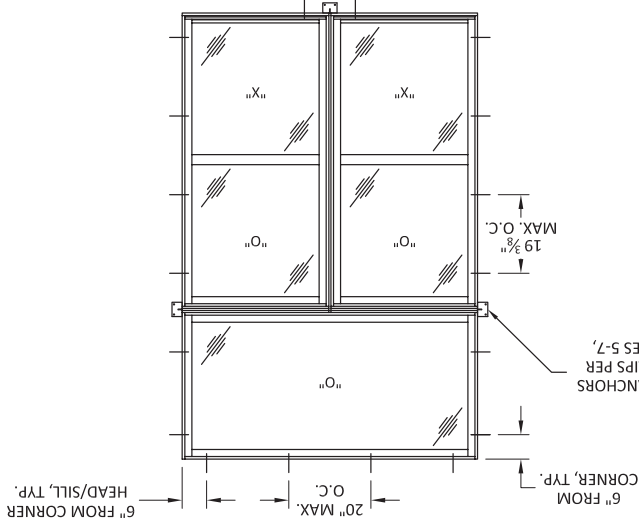
ANCHOR LAYOUT



ANCHOR LAYOUT



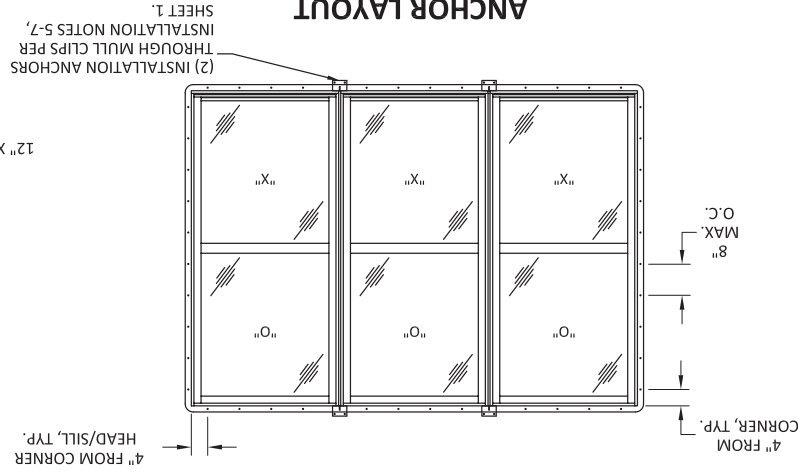
ANCHOR LAYOUT



 ATR WINDOWS AND DOORS 9001 AMBASSADOR ROW PH: (214) 637-2606 FAX: (214) 634-6734 DALLAS, TEXAS 75247		TITLE: SERIES 130 SINGLE HUNG WINDOW	
PREPARED BY: BUILDING DROPS, INC. 398 E. DAWA BEACH BLVD. STE. 338 DALLAS, TEXAS 75204 PH: (954) 744-4738 FAX: (954) 744-4738 WEB: www.buildingdrops.com		ANCHOR LAYOUTS - THROUGH FRAME	
		REMARKS AT-RMC 5th Ed. CODE CHANGE BY DATE SM 06.03.14 LS 02.17.17 AG 10.03.17 YC 04.16.20 D-ALUMINIUM SUBSTRATE C-FBC 2017 CODE CHANGE B-CERT AGENCY UPDATE THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. THE REQUIREMENTS OF THE ATR SYSTEM SHALL BE USED FROM THE REQUIREMENTS OF THE ATR SYSTEM. THE ENGINEER OR ARCHITECT SHALL PREPARE AND SIGN SPECIFIC DOCUMENTS THAT SHALL BE IN ACCORDANCE WITH THE ATR SYSTEM.	
HERNANDEZ, J. ROBERTO, P.E. FLORIDA P.E. NO. 73778 BUILDING DROPS, INC. 398 E. DAWA BEACH BLVD. STE. 338 DALLAS, TEXAS 75204 FPEE CERT. OF AUTHORIZATION NO. 29578 PROFESSIONAL ENGINEER STATE OF FLORIDA LICENSE NO. 73778		FL #: FL20100 DATE: 01.02.2020 DWG. BY: YC CHK. BY: HFN SCALE: NTS DWG. #: ATR113 SECTION:	

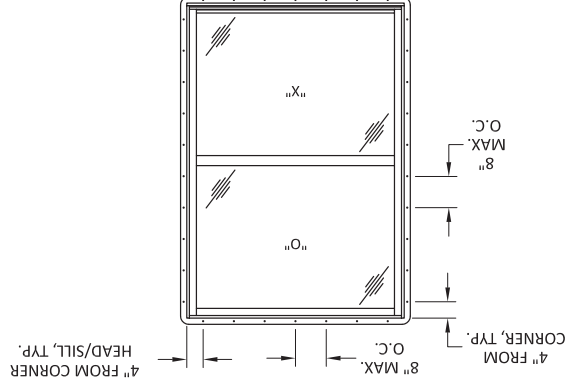
ANCHOR LAYOUT

TYP. FOR TWIN & TRIPLE MULLED UNITS - THROUGH FIN



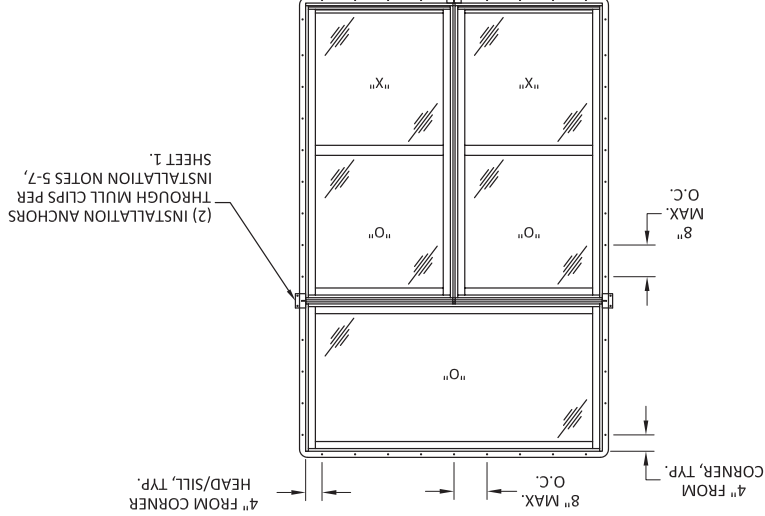
ANCHOR LAYOUT

SINGLE HUNG - THROUGH FIN



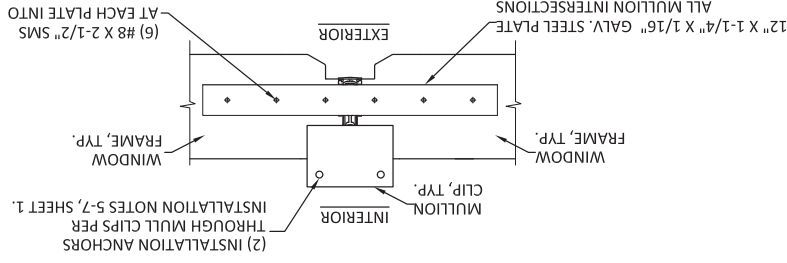
ANCHOR LAYOUT

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



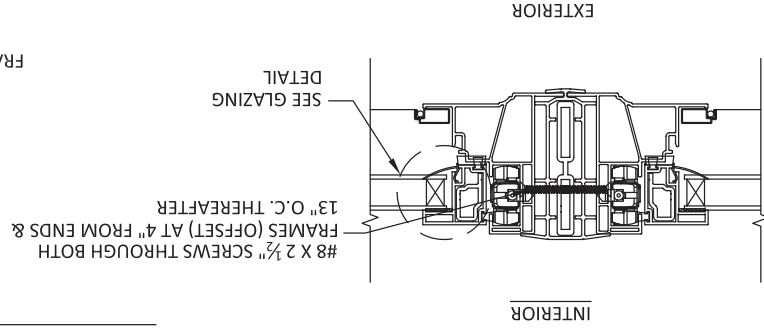
MULLION PLATE DETAIL

TYPICAL WHEREVER MULLION CLIPS OCCUR



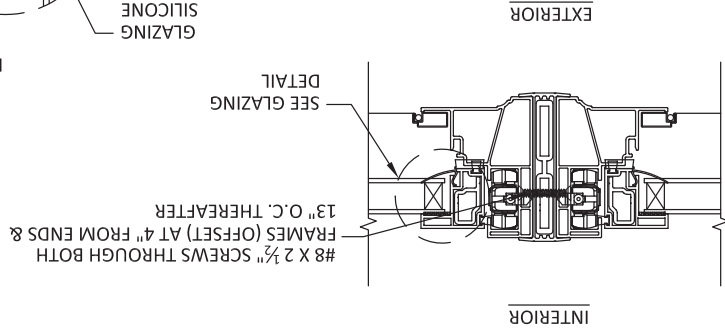
FL20100		DATE: 01.02.2020		DWG. BY: YC		SCALE: NTS		DWG. #: ATR113		SECTION: 7 OF 7	
HERMES F. NOBRE, P.E. 398 E. DANIA BEACH BLVD., STE. 338 DANIA BEACH, FL 33004 BUILDING DROPS, INC. FLORIDA P.E. NO. 73778 F.P.R.E. CERT. OF AUTHORIZATION NO. 29578											
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS REQUIRE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PROVIDE THE SITES SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.											
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
TITLE:		SERIES 130 SINGLE HUNG WINDOW									
PREPARED BY:		ANCHOR LAYOUTS (THROUGH FIN)									
BUILDING DROPS, INC.		398 E. DANIA BEACH BLVD., STE. 338 DANIA BEACH, FL 33004 PH: (954) 744-8738 FAX: (954) 744-8738 WEB: www.buildingdrops.com									
ATRIUM WINDOWS AND DOORS		9001 AMBASSADOR ROW DALLAS, TEXAS 75247 PH: (214) 637-2696 FAX: (214) 624-6734									

7 HORIZONTAL SECTION

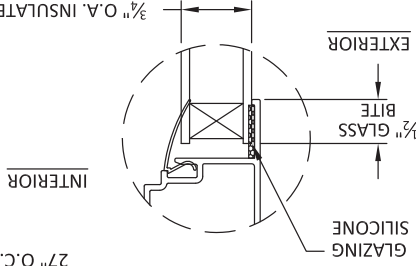


NOTE:
GLASS TYPE & THICKNESS SHALL MEET THE
REQUIREMENTS OF ASTM E 1300 GLASS
CHARTS AND SAFETY GLAZING REQUIREMENTS
OF FBC CHAPTER 24

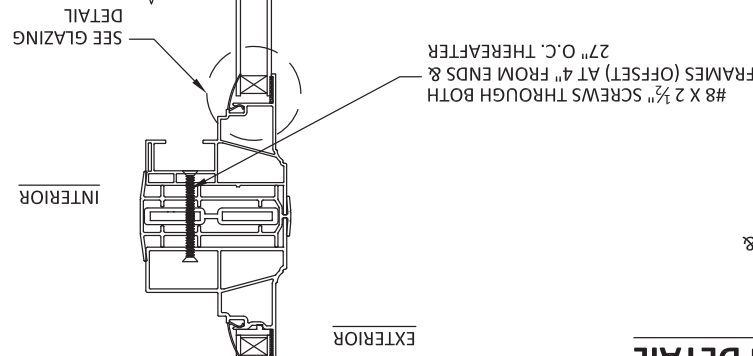
1 1/2" VERTICAL SECTION



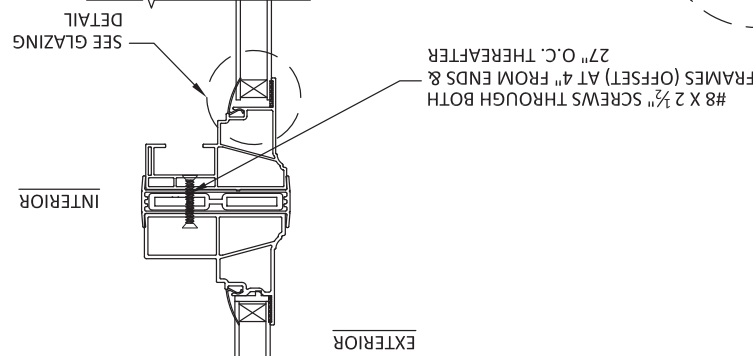
GLAZING DETAIL



1 1/4" HORIZONTAL MULLION



K 1/2" HORIZONTAL MULLION



SECTION: DWG. #:
SCALE: NTS
DATE: 01.02.2020
FL20100
FL #:

HERMES F. NOBRE, P.E.
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBC CERT. OF AUTHORIZATION No. 29578

PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO. 73778
HERMES F. NOBRE

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 PROVIDE THE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT

REMARKS
BY: DATE
SM: 06.03.14
LS: 02.27.17
AG: 10.03.17
YC: 04.16.20

TITLE:
SERIES 130
SINGLE HUNG WINDOW
MULLION DETAILS AND GLAZING DETAIL

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
TEL: (954) 744-2728
FAX: (954) 744-2728
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ATRIUM
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9001 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214) 637-2696 FAX: (214) 424-6734

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

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

OF 7

Search Criteria

Code Version	2020	FL#	20100.2
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		

[Refine Search](#)

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL20100-R11 History	Affirmation	Atrium Windows & Doors FL#: FL20100.2 Model: Series 130 Single Hung Description: Single Hung Window 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 Accepts:





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

► OFFICE OF THE
SECRETARY

FL #

Application Type

Code Version

Application Status

FL20100-R11
Affirmation
2020
Approved

Comments
Archived



Product Manufacturer
Address/Phone/Email

Atrium Windows & Doors
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
Address/Phone/Email

Luanne Harris
300 Welcome Center Blvd.
Welcome, NC 27374
(800) 542-9118 Ext 413596
luanne.harris@cornerstone-bb.com

Category
Subcategory

Windows
Single Hung

Compliance Method

Certification Mark or Listing

Certification Agency
Validated By

National Accreditation & Management Institute
National Accreditation & Management Institute

Referenced Standard and Year (of Standard)

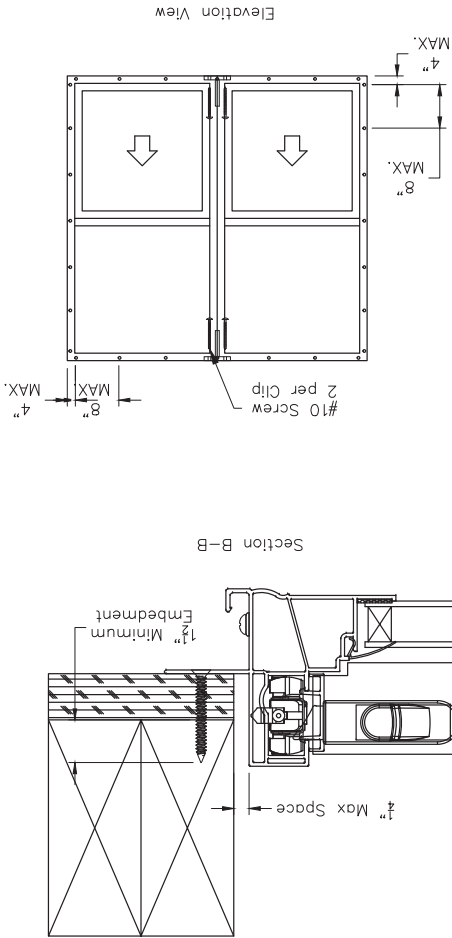
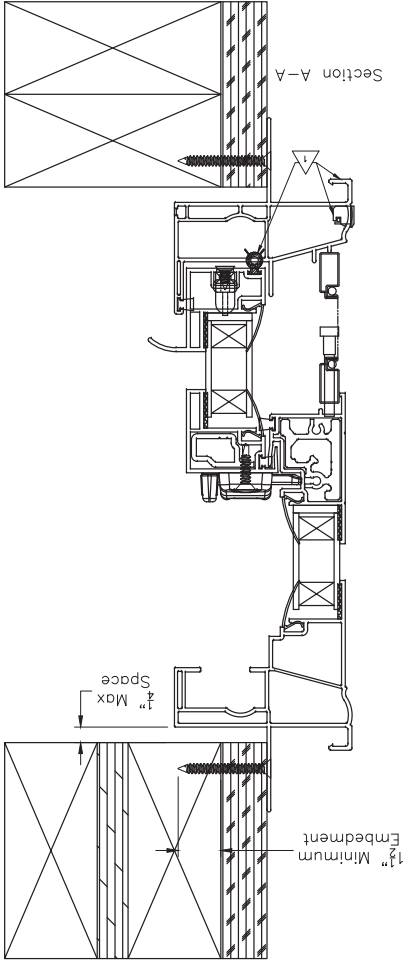
Standard	Year
AAMA 450	2010
AAMA/WDMA/CSA 101/1.S.2/A440	2011
AAMA/WDMA/CSA 101/1.S.2/A440	2008

Equivalence of Product Standards
Certified By

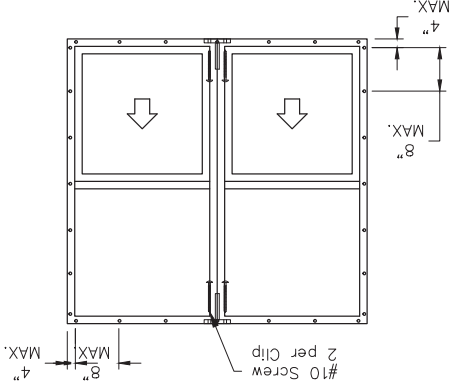
☒ I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity

☐ Yes ☐ No ☐ N/A



Elevation View



ATRIUM

COMPANIES, INC.

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No. 3
Date 5/22/2013
Revision Description

Drawn By: CRA
Approved By: ---
Date: 9-14-2009
Scale: 1:2
Sheet Size: ANSI B

Material (Type-Alloy-Temper): ---
Est. Weight (lb/ft): NA
Est. Area (sq ft): NA
Tolerances: XXX = ±.XXX
XXX = ±.XXX
XXX = ±.XXX

File Name: ADW-01 120 SH ASSY
ECN# (Initial Issue): 2008-1369
Sheet 5/8

Title: Atrium Series 120/130 Single Hung Continuous Head and Sill New Construction Installation Drawing

2008-1369

Table 1 – Verified Installations				
Config.	DP (psf)	WIDTH (in)	HEIGHT (in)	
Twin	+/- 35	96	84	
Triple	+/- 50	108	72	
Triple	+/- 35	108	84	

- NOTES:
- INSTALLATIONS SHOWN ON THIS DRAWING HAVE BEEN VERIFIED AS THE AS-TESTED INSTALLATION FOR THE PERFORMANCE LEVEL SHOWN. VERIFIED PRODUCTS ARE LISTED IN TABLE 1. THIS DRAWING APPLIES ONLY TO THOSE PRODUCTS.
 - INSTALLATION ANCHORS SHALL BE #8 SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD FRAMING MEMBER. WOOD SCREWS SHALL SATISFY NATIONAL DESIGN SPECIFICATION FOR MATERIAL PROPERTIES AND DIMENSIONS. EDGE DISTANCES SHALL BE MINIMUM 3/8" PER CURRENT NDS.
 - WOOD FRAMING SHALL BE SPRUCE-PINE-FIR (G=0.42) OR DENSER.
 - INSTALLATION ANCHORS SHALL BE LOCATED WITHIN 1/2" OF THE SPECIFIED LOCATION.
 - MAXIMUM SHIM SPACE SHALL BE 1/4". SPACES GREATER THAN 1/16" REQUIRE LOAD BEARING SHIMS.
 - INSTALLATION ANCHORS ARE SHOWN GOING THROUGH EXTERIOR FINISH. ANCHORS MAY BE INSTALLED DIRECTLY INTO WOOD FRAMING MEMBER WITH 1-1/2" MINIMUM EMBEDMENT STILL REQUIRED. EDGE DISTANCES SHALL BE MINIMUM 3/8" PER CURRENT NDS.
 - INSTALLATION ANCHORS SHALL BE LOCATED 2" FROM CORNERS AND 8" MAXIMUM ON CENTER SPACING. THESE INSTRUCTIONS ADDRESS STRUCTURAL REQUIREMENTS ONLY. WINDOWS SHALL BE INSTALLED PER ASTM E2112 OR FMA/AAMA 100.
 - SMALLER WINDOWS OF THE SAME CONSTRUCTION AND EQUAL OR LESSER DESIGN PRESSURES ARE COVERED BY THIS DRAWING.
 - GLAZING TYPE, GLASS TYPE, AND GLASS THICKNESS ARE ESTABLISHED BY THE CERTIFICATION AND SHALL SATISFY ASTM E1300. GLAZING TYPE SHALL BE INSULATING GLASS.
 - PRODUCTS LISTED IN TABLE 1 ARE NOT IMPACT RESISTANT. IF USED IN WIND-BORNE DEBRIS REGIONS, APPROVED PROTECTION DEVICES ARE REQUIRED.
 - PRODUCT OR INSTALLATION IS NOT APPROVED FOR HIGH VELOCITY HURRICANE ZONE (HVHZ).

ATRIUM CORPORATION

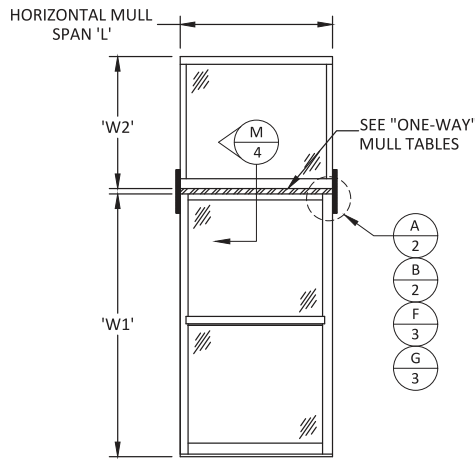
SERIES 130 1.25" TUBE MULLION (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

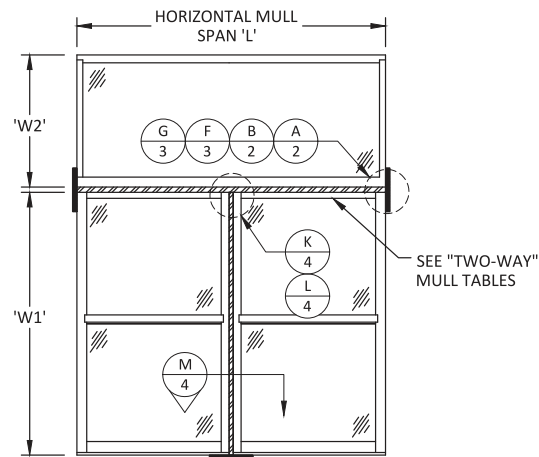
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ, AND HAVE BEEN EVALUATED TO 7TH EDITION (2020) FLORIDA BUILDING CODE, SECTION 1709.8.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND 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. MULLION & CLIP MATERIAL: ALUMINUM 6063-T6
7. SEE SHEETS 5-8 FOR INSTALLATION ANCHOR REQUIREMENTS FOR SPECIFIC MULLION CONFIGURATIONS AND DESIGN LOAD CAPACITIES.
8. IN ACCORDANCE WITH THE CURRENT FBC, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED AS DEFINED IN CHAPTER 20.
9. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - 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.

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

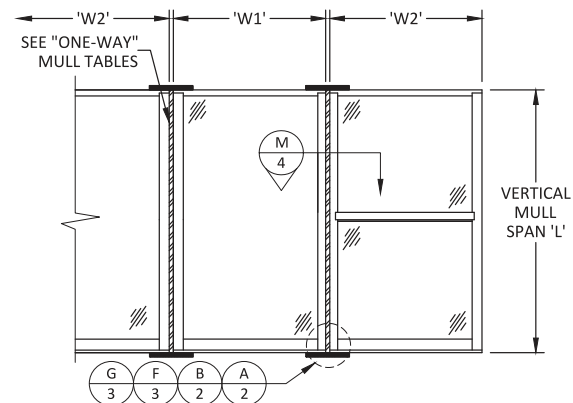
TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION, GENERAL NOTES & ELEVATIONS
2	MULLION DETAILS (STANDARD CLIP)
3	MULLION DETAILS (OFFSET CLIP)
4	TWO-WAY DETAILS & FRAME DETAIL
5	ONE-WAY MULL TABLES (TAPCONS ONLY)
6	ONE-WAY MULL TABLES (ALL OTHER ANCHORS)
7	TWO-WAY MULL TABLES (TAPCONS ONLY)
8	TWO-WAY MULL TABLES (ALL OTHER ANCHORS)



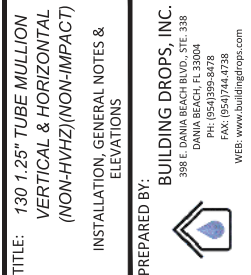
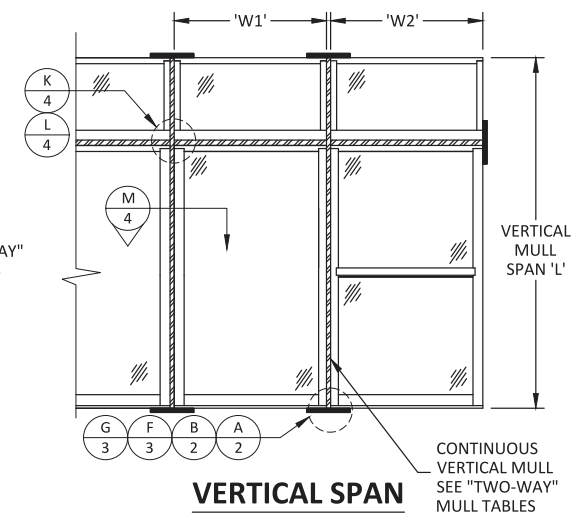
HORIZONTAL SPAN



HORIZONTAL "T" MULL SPAN

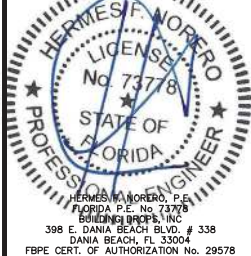


VERTICAL SPAN



REMARKS	BY	DATE
FBC 5th ED. CODE CHANGE	SM	06.03.14
ADDITIONAL SIZING	LS	04.14.16
FBC 2017 CODE CHANGE	AG	10.03.17
FBC 2020 CODE CHANGE	LL	11.11.20

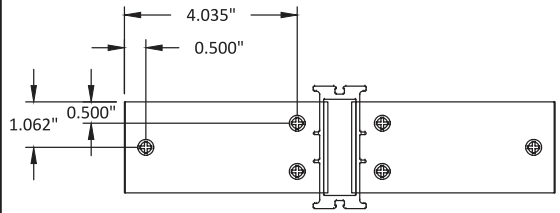
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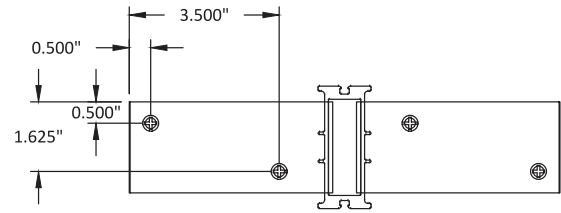
FL #:	FL22377
DATE:	10.03.17
DWG. BY:	AR/AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR110
SECTION:	1

11/12/2020 5:19 PM

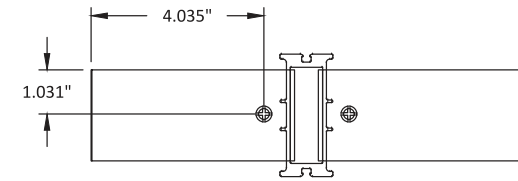
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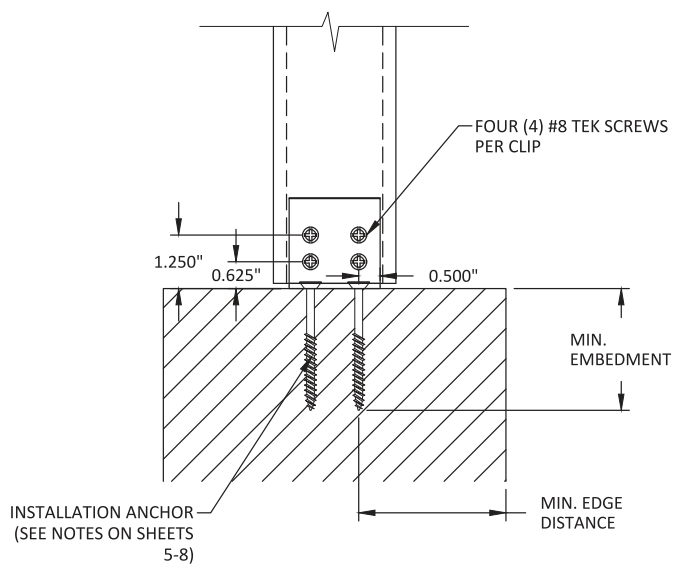
C
2 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
WOOD OR STEEL STUD INSTALLATION



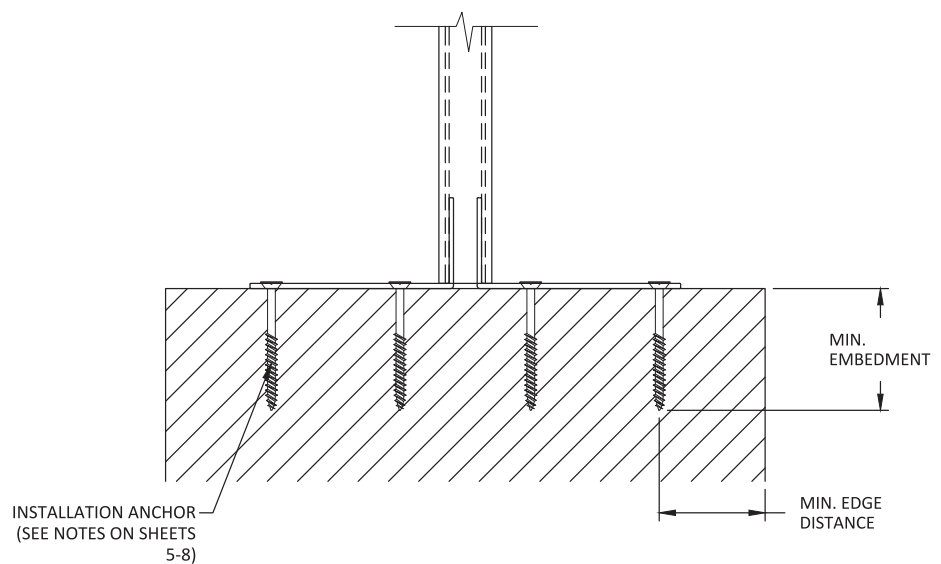
D
2 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
ITW TAPCONS INTO CONCRETE/MASONRY



E
2 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
HILTI KWIK BOLTS INTO CONCRETE/MASONRY



A
2 **SIDE VIEW**
MULLION W/ END CLIPS (ONE OR TWO WAY)
STANDARD CLIP



B
2 **FRONT VIEW**
MULLION W/ END CLIPS (ONE OR TWO WAY)
STANDARD CLIP

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

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)/(NON-IMPACT)
MULLION DETAILS
(STANDARD CLIP)

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)744-4738
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
FBC 5th ED. CODE CHANGE	SM	06.03.14
ADDITIONAL SIZING	LS	04.14.16
FBC 2017 CODE CHANGE	AG	10.03.17
FBC 2020 CODE CHANGE	LL	11.11.20

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HERMES F. NORERO
LICENSED PROFESSIONAL ENGINEER
No. 73778
STATE OF FLORIDA
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 #:
FL22377

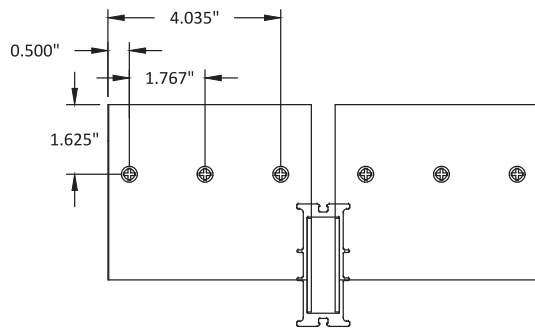
DATE: **10.03.17**

DWG. BY: **AR/AG** CHK. BY: **HFN**

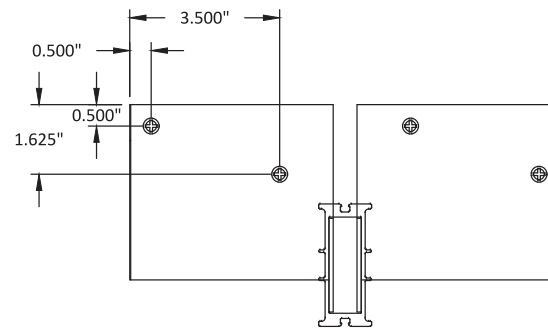
SCALE: **NTS**

DWG. #: **ATR110**

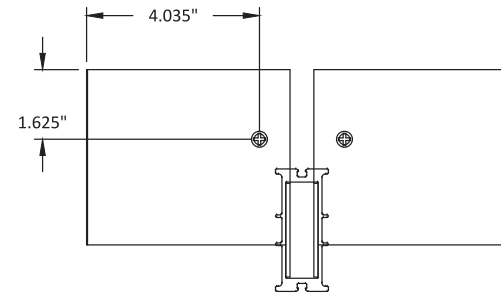
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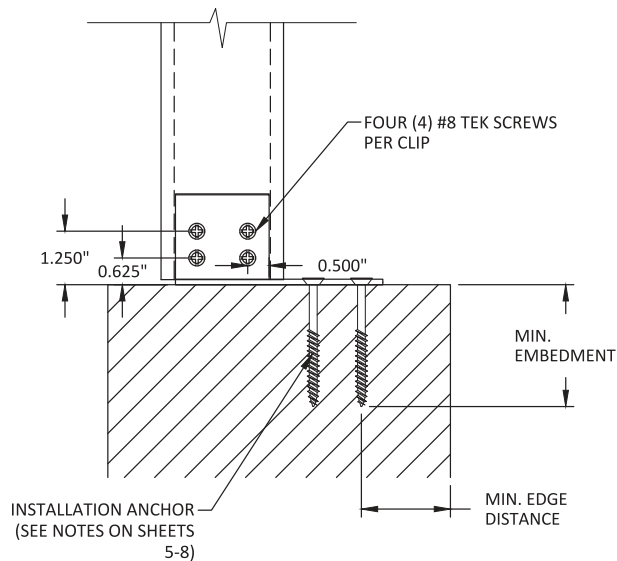
H
3 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
WOOD OR STEEL STUD INSTALLATION



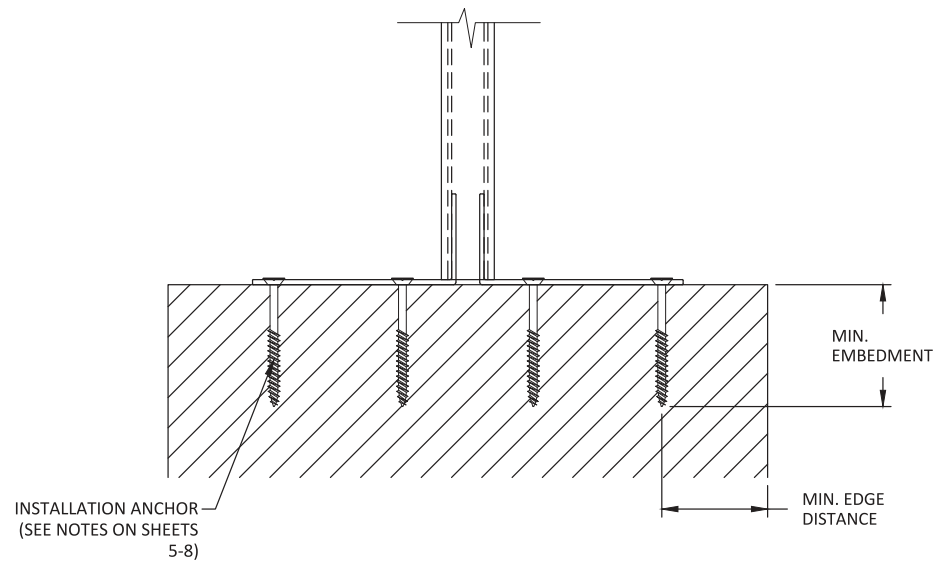
I
3 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
ITW TAPCONS INTO CONCRETE/MASONRY



J
3 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
HILTI KWIK BOLTS INTO CONCRETE/MASONRY



F
3 **SIDE VIEW**
MULLION W/ END CLIPS (ONE OR TWO WAY)
OFFSET CLIP



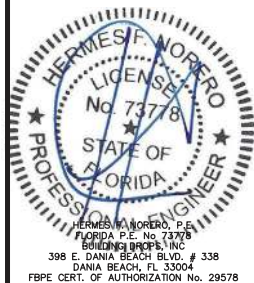
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3 **FRONT VIEW**
MULLION W/ END CLIPS (ONE OR TWO WAY)
OFFSET CLIP

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)/(NON-IMPACT)
MULLION DETAILS
(OFFSET CLIP)

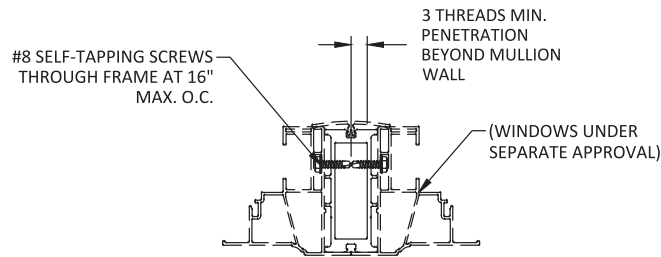
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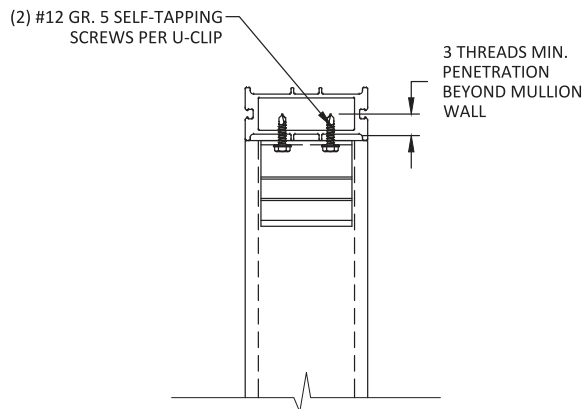
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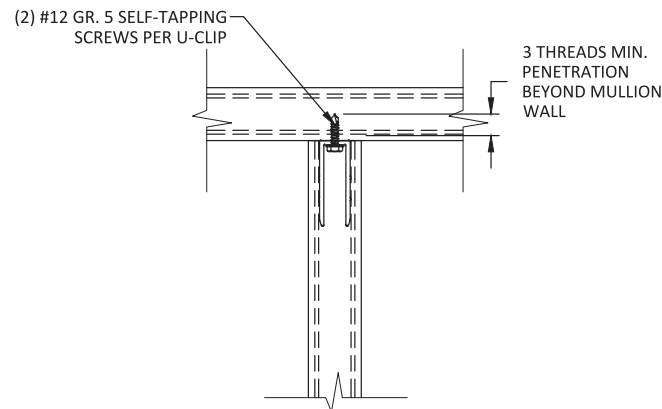
FL #:	FL22377
DATE:	10.03.17
DWG. BY:	AR/AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR110
SECTION:	



M
4 **HORIZONTAL SECTION**
FRAME CONNECTION TO MULLION
TYPICAL



K
4 **SIDE VIEW**
MULLION WITH U-CLIP (TWO WAY)
TYPICAL

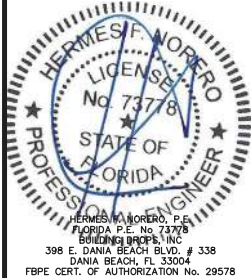


L
4 **FRONT VIEW**
MULLION WITH U-CLIP (TWO WAY)
TYPICAL

TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)
FRAME DETAIL
TWO-WAY DETAILS & FRAME DETAIL
PREPARED BY: BUILDING DROPS, INC.
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DATE:	10.03.17
DWG. BY:	AR/AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR110
SECTION:	4

Maximum design pressure capacity chart (psf)

One-Way Mullions (Tapcons only)

L - Mull Length (in)	W - Tributary Width (in)													
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	143.7	134.5	127.8	123.0	119.8	117.3	117.3	117.3	117.3	117.3	117.3	117.3
48.0	147.4	131.4	119.8	111.1	104.5	99.6	95.8	91.3	89.8	89.8	89.8	89.8	89.8	89.8
54.0	127.8	113.3	102.7	94.6	88.5	83.6	79.9	74.7	71.9	71.0	71.0	71.0	71.0	71.0
60.0	112.7	99.6	89.8	82.4	76.7	72.1	68.4	63.2	59.9	58.1	57.5	57.5	57.5	57.5
66.0	100.9	88.8	79.9	73.0	67.6	63.4	59.9	54.8	51.3	49.1	47.9	47.5	47.5	47.5
72.0	91.3	80.1	71.9	65.5	60.5	56.5	53.2	48.3	44.9	42.6	41.1	40.2	39.9	39.9
78.0	83.3	73.0	65.1	58.4	53.2	49.0	45.5	40.3	36.6	34.0	32.2	31.0	30.3	30.1
84.0	68.0	58.7	51.8	46.5	42.2	38.8	36.0	31.7	28.7	26.5	24.9	23.7	23.0	22.5
90.0	55.2	47.6	41.9	37.6	34.1	31.3	29.0	25.5	22.9	21.0	19.6	18.6	17.9	17.4
96.0	45.4	39.1	34.4	30.8	28.0	25.6	23.7	20.8	18.6	17.0	15.8	-	-	-

NOTES:

- MULLION CHART APPLIES TO MULLION ASSEMBLIES WHEN USED TO MULL WINDOWS IN ONE-WAY CONFIGURATIONS SHOWN ON SHEET 1 USING ITW TAPCON ANCHORS ONLY. SEE DETAILS D/2 & I/3.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL WINDOW UNITS OF INSTALLATION UNDER SEPARATE APPROVAL.
- FOR CONCRETE/MASONRY INSTALLATION USE TWO (2) 1/4" DIAMETER ITW TAPCON SCREWS AT EACH ANCHOR CLIP. TAPCONS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 1-1/4" EMBEDMENT AND MINIMUM 2-1/2" EDGE DISTANCE. SEE DETAILS D/2 & I/3.

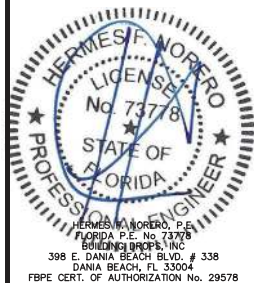


TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)/(NON-IMPACT)
ONE-WAY MULL TABLES
(TAPCONS ONLY)

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REMARKS	BY	DATE
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FL #:
FL22377

DATE: **10.03.17**

DWG. BY: **AR/AG** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **ATR110**

SECTION:
5

OF 8

Maximum design pressure capacity chart (psf) One-Way Mullions (All other anchors)

L - Mull Length (in)	W - Tributary Width (in)													
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	148.3	148.3	148.3	148.3	148.3	148.3
54.0	150.0	150.0	150.0	150.0	146.0	138.0	131.8	123.2	118.6	117.1	117.1	117.1	117.1	117.1
60.0	150.0	150.0	146.8	132.8	121.9	113.3	106.4	96.5	90.4	87.1	86.0	86.0	86.0	86.0
66.0	142.0	123.1	109.1	98.4	90.0	83.3	77.9	69.9	64.6	61.2	59.4	58.7	58.7	58.7
72.0	108.8	94.2	83.3	74.9	68.4	63.1	58.8	52.3	47.9	44.9	42.9	41.8	41.5	41.5
78.0	85.2	73.7	65.1	58.4	53.2	49.0	45.5	40.3	36.6	34.0	32.2	31.0	30.3	30.1
84.0	68.0	58.7	51.8	46.5	42.2	38.8	36.0	31.7	28.7	26.5	24.9	23.7	23.0	22.5
90.0	55.2	47.6	41.9	37.6	34.1	31.3	29.0	25.5	22.9	21.0	19.6	18.6	17.9	17.4
96.0	45.4	39.1	34.4	30.8	28.0	25.6	23.7	20.8	18.6	17.0	15.8	-	-	-

NOTES:

- MULLION CHART APPLIES TO MULLION ASSEMBLIES WHEN USED TO MULL WINDOWS IN ONE-WAY CONFIGURATIONS SHOWN ON SHEET 1 USING ALL OTHER ANCHOR OPTIONS. SEE DETAILS C/2, E/2, H/3, & J/3.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL WINDOW UNITS OF INSTALLATION UNDER SEPARATE APPROVAL.
- FOR WOOD FRAME INSTALLATION USE THREE (3) #14 WOOD SCREWS AT EACH ANCHOR CLIP. WOOD SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 1-1/2" EMBEDMENT AND MINIMUM 3/4" EDGE DISTANCE. SEE DETAILS C/2 & H/3.
- FOR STEEL STUD INSTALLATION USE THREE (3) 1/4" TEK SCREWS AT EACH ANCHOR CLIP. TEK SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND STEEL STRUCTURE EMBEDMENT AND MINIMUM 1/2" EDGE DISTANCE. SEE DETAILS C/2 & H/3.
- FOR CONCRETE INSTALLATION USE ONE (1) 3/8" DIAMETER HILTI KWIK BOLT III EXPANSION ANCHOR AT EACH ANCHOR CLIP. BOLTS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 2-1/2" EMBEDMENT AND MINIMUM 2-1/2" EDGE DISTANCE. SEE DETAILS E/2 & J/3.
- FOR GROUT-FILLED CMU INSTALLATION USE ONE (1) 3/8" DIAMETER HILTI KWIK BOLT III EXPANSION ANCHOR AT EACH ANCHOR CLIP. BOLTS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 2-1/2" EMBEDMENT AND MINIMUM 3-1/2" EDGE DISTANCE. SEE DETAILS E/2 & J/3



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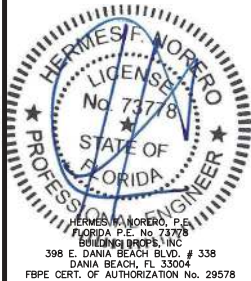
TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)/(NON-IMPACT)
ONE-WAY MULL TABLES
(ALL OTHER ANCHORS)

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REMARKS	BY	DATE
FBC 5th ED. CODE CHANGE	SM	06.03.14
ADDITIONAL SIZING	LS	04.14.16
FBC 2017 CODE CHANGE	AG	10.03.17
FBC 2020 CODE CHANGE	LL	11.11.20

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FL #:	FL22377
DATE:	10.03.17
DWG. BY:	AR/AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR110
SECTION:	6

Maximum design pressure capacity chart (psf) Two-Way Mullions (Tapcons Only)

L - Mull Length (in)	W - Tributary Width (in)														
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	55.0	60.0	66.0	72.0	78.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.7	130.7	119.8	110.6
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.7	127.8	125.4	115.0	104.5	95.8	88.5
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	136.9	119.8	106.5	104.5	95.8	87.1	79.9	73.7
42.0	150.0	150.0	150.0	150.0	150.0	149.3	136.9	117.3	102.7	91.3	89.6	82.1	74.7	68.4	63.2
48.0	150.0	150.0	150.0	150.0	143.7	130.7	119.8	102.7	89.8	79.9	78.4	71.9	65.3	59.9	55.3
54.0	150.0	150.0	150.0	142.0	127.8	116.2	106.5	91.3	79.9	71.0	69.7	63.9	58.1	53.2	49.1
60.0	150.0	150.0	137.5	122.2	110.0	100.0	91.7	78.6	68.8	61.1	60.0	55.0	50.0	45.8	42.3
66.0	137.8	118.1	103.3	91.8	82.7	75.1	68.9	59.0	51.7	45.9	45.1	41.3	37.6	34.4	31.8
72.0	106.1	91.0	79.6	70.7	63.7	57.9	53.1	45.5	39.8	35.4	34.7	31.8	28.9	26.5	24.5
74.0	97.7	83.8	73.3	65.2	58.6	53.3	48.9	41.9	36.7	32.6	32.0	29.3	26.7	24.4	22.6
78.0	83.5	71.5	62.6	55.6	50.1	45.5	41.7	35.8	31.3	27.8	27.3	25.0	22.8	20.9	19.3
84.0	66.8	57.3	50.1	44.6	40.1	36.5	33.4	28.6	25.1	22.3	21.9	20.0	18.2	16.7	15.4
90.0	54.3	46.6	40.7	36.2	32.6	29.6	27.2	23.3	20.4	18.1	17.8	16.3	-	-	-
96.0	44.8	38.4	33.6	29.8	26.9	24.4	22.4	19.2	16.8	-	-	-	-	-	-

NOTES:

- MULLION CHART APPLIES TO MULLION ASSEMBLIES WHEN USED TO MULL WINDOWS IN TWO-WAY CONFIGURATIONS SHOWN ON SHEET 1 USING ITW TAPCON ANCHORS ONLY. SEE DETAILS D/2, I/3, K/4 & L/4.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL WINDOW UNITS OF INSTALLATION
- FOR CONCRETE/MASONRY INSTALLATION USE TWO (2) 1/4" DIAMETER ITW TAPCON SCREWS AT EACH ANCHOR CLIP. TAPCONS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 1-1/4" EMBEDMENT AND MINIMUM 2-1/2" EDGE DISTANCE. SEE DETAILS D/2 & I/3.
- FOR TWO-WAY CONNECTION OF U-CLIP TO MULLION USE TWO (2) 1/4" TEK SCREWS AT EACH ANCHOR CLIP. TEK SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND ALUMINUM MULLION STRUCTURE. SEE DETAILS K/4 & L/4.



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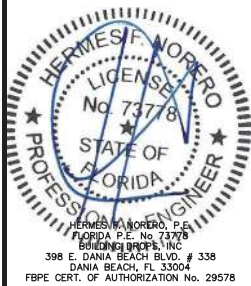
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DWG. BY: AR/AG	CHK. BY: HFN
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SECTION:	

Maximum design pressure capacity chart (psf) Two-Way Mullions (All other anchors)

L - Mull Length (in)	W - Tributary Width (in)														
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	54.0	55.0	60.0	66.0	72.0	78.0
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	146.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.8	131.8	121.6
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.1	140.5	128.8	117.1	107.3	99.1
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	140.9	123.3	109.6	107.6	98.6	89.7	82.2	75.9
54.0	150.0	150.0	150.0	150.0	150.0	137.2	125.8	107.8	94.3	83.8	82.3	75.5	68.6	62.9	58.0
60.0	150.0	150.0	137.5	122.2	110.0	100.0	91.7	78.6	68.8	61.1	60.0	55.0	50.0	45.8	42.3
66.0	137.8	118.1	103.3	91.8	82.7	75.1	68.9	59.0	51.7	45.9	45.1	41.3	37.6	34.4	31.8
72.0	106.1	91.0	79.6	70.7	63.7	57.9	53.1	45.5	39.8	35.4	34.7	31.8	28.9	26.5	24.5
74.0	97.7	83.8	73.3	65.2	58.6	53.3	48.9	41.9	36.7	32.6	32.0	29.3	26.7	24.4	22.6
78.0	83.5	71.5	62.6	55.6	50.1	45.5	41.7	35.8	31.3	27.8	27.3	25.0	22.8	20.9	19.3
84.0	66.8	57.3	50.1	44.6	40.1	36.5	33.4	28.6	25.1	22.3	21.9	20.0	18.2	16.7	15.4
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NOTES:

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- FOR WOOD FRAME INSTALLATION USE THREE (3) #14 WOOD SCREWS AT EACH ANCHOR CLIP. WOOD SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 1-1/2" EMBEDMENT AND MINIMUM 3/4" EDGE DISTANCE. SEE DETAILS C/2 & H/3.
- FOR STEEL STUD INSTALLATION USE THREE (3) 1/4" TEK SCREWS AT EACH ANCHOR CLIP. TEK SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND STEEL STRUCTURE EMBEDMENT AND MINIMUM 1/2" EDGE DISTANCE. SEE DETAILS C/2 & H/3.
- FOR CONCRETE INSTALLATION USE ONE (1) 3/8" DIAMETER HILTI KWIK BOLT III EXPANSION ANCHOR AT EACH ANCHOR CLIP. BOLTS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 2-1/2" EMBEDMENT AND MINIMUM 2-1/2" EDGE DISTANCE. SEE DETAILS E/2 & J/3.
- FOR GROUT-FILLED CMU INSTALLATION USE ONE (1) 3/8" DIAMETER HILTI KWIK BOLT III EXPANSION ANCHOR AT EACH ANCHOR CLIP. BOLTS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 2-1/2" EMBEDMENT AND MINIMUM 3-1/2" EDGE DISTANCE. SEE DETAILS E/2 & J/3.
- FOR TWO-WAY CONNECTION OF U-CLIP TO MULLION USE TWO (2) 1/4" TEK SCREWS AT EACH ANCHOR CLIP. TEK SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND ALUMINUM MULLION STRUCTURE. SEE DETAILS K/4 & L/4.



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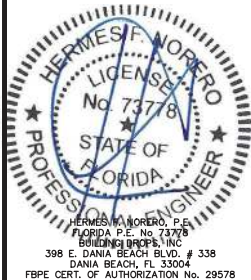
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FL #:	FL22377
DATE:	10.03.17
DWG. BY:	AR/AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR110
SECTION:	



Search Criteria

[Refine Search](#)

Code Version	2020	FL #	20472.1
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
FL20472-R5	Revision	Atrium Windows & Doors	National Accreditation & Management Institute	Approved *
History		FL #: FL20472.1 Model: Series 120/130 Description: Horizontal Sliding Window Category: Windows Subcategory: Horizontal Slider	(804) 684-5124	

*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:



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 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.
- 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.
- 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.
- 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.
- 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.
- THROUGH FIN:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #8 GR. 5 SELF TAPPING SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
- 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.
- 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.
- 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:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - 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.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/16" (0.0625").

ATRIUM COMPANIES, INC.

SERIES 120/130

HORIZONTAL SLIDER

(NON-HVHZ)(NON-IMPACT)

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/WDMA/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 DETAIL.
- ALL SILL PENETRATIONS (WHETHER OR NOT FILLED WITH AN INSTALLATION ANCHOR) ARE TO BE OVER SEALED WITH AN APPROPRIATE SILICONE SEALANT.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL

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

MAX O.A. SIZE		CONFIGURATION	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT			
74"	50"	XO	+/- 50 PSF	NON-IMPACT
74"	63"	XO	+/- 35 PSF	NON-IMPACT
108"	50"	XOX	+/- 50 PSF	NON-IMPACT
108"	63"	XOX	+/- 30 PSF	NON-IMPACT



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Welcome, NC 27374
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TITLE: SERIES 120/130
HORIZONTAL SLIDER
(NON-HVHZ)(NON-IMPACT)
INSTALLATION & GENERAL NOTES

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



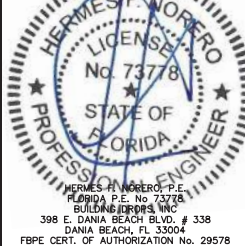
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FBC 5th ED. CODE CHANGE	SM	06.03.14
74"x63" DP REVISION	SM	06.03.14
FBC 2017 CODE CHANGE	AG	10.03.17
2020 FBC CODE CHANGE	NUS	08.13.20

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.

Digitally signed by Hermes F Norero

Reason: I am approving this document

Date: 2020.12.08 20:05:27 -0500



FL #:

FL20472

DATE: 10.03.17

DWG. BY: AR/AG

CHK. BY: HFN

SCALE: NTS

DWG. #: ATR116

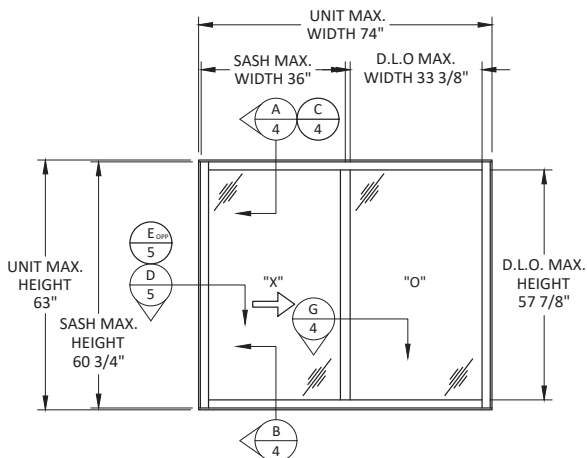
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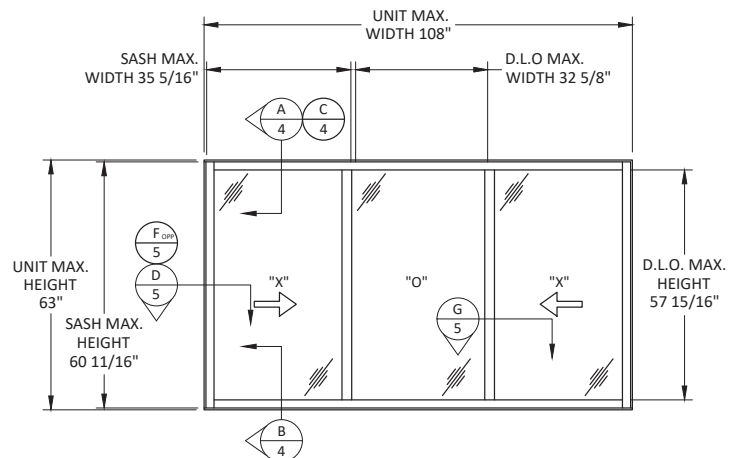
OF 5

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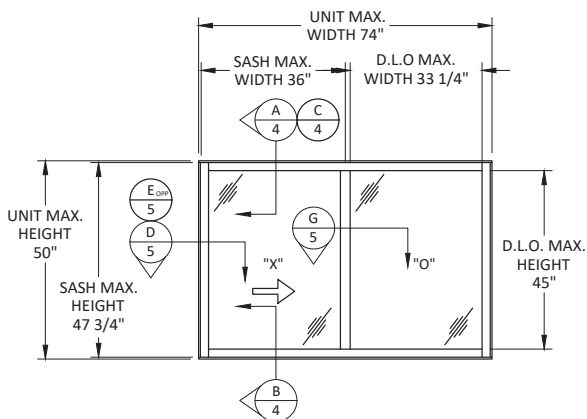
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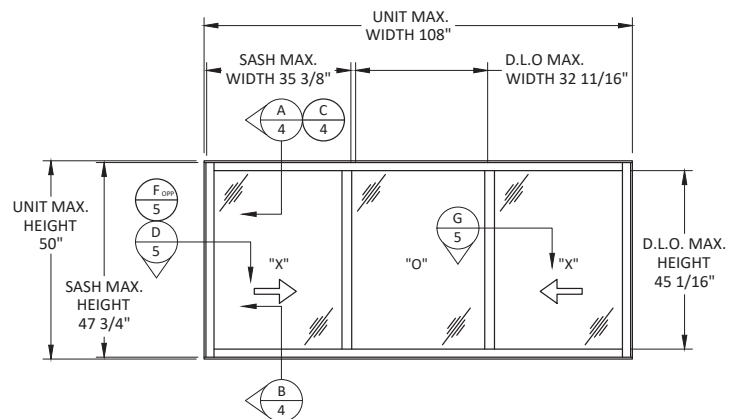
TYPICAL ELEVATION
XO CONFIGURATION



TYPICAL ELEVATION
XOx CONFIGURATION



TYPICAL ELEVATION
XO CONFIGURATION



TYPICAL ELEVATION
XOx CONFIGURATION

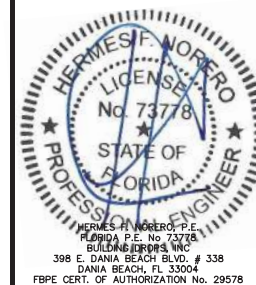


TITLE: SERIES 120/130
HORIZONTAL SLIDER
(NON-HVHZ/(NON-IMPACT))
ELEVATIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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FBC 5th ED. CODE CHANGE	SM	06.03.14
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2020 FBC CODE CHANGE	NUS	08.13.20

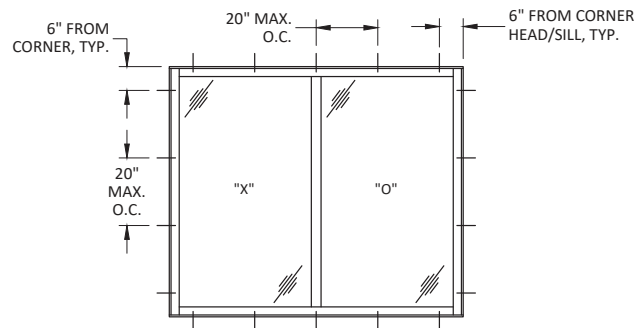
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



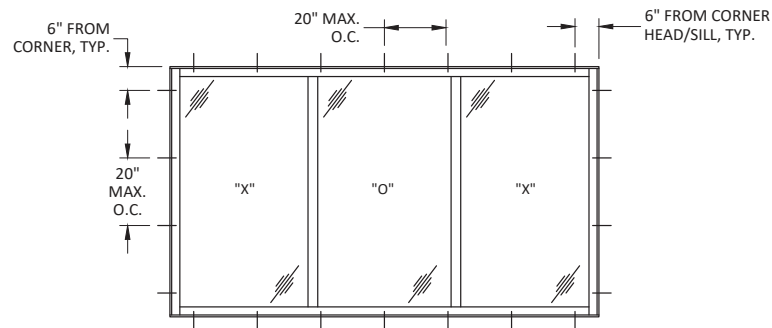
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DATE:	10.03.17
DWG. BY:	AR/AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR116
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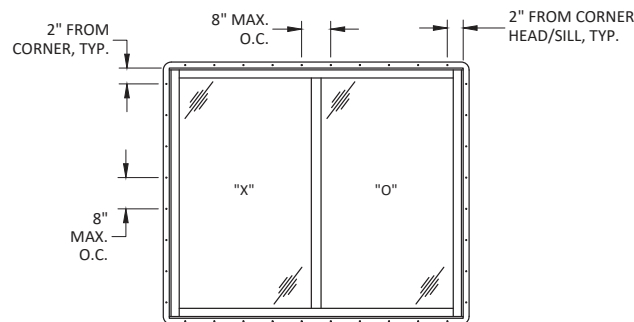
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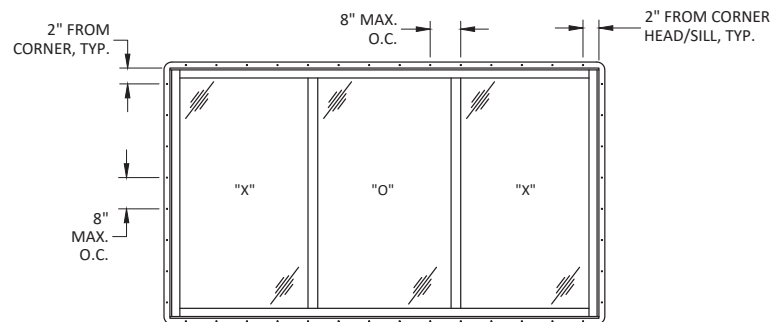
ANCHOR LAYOUT
XO CONFIGURATION - THROUGH FRAME



ANCHOR LAYOUT
XOx CONFIGURATION - THROUGH FRAME



ANCHOR LAYOUT
XO CONFIGURATION - THROUGH FIN



ANCHOR LAYOUT
XOx CONFIGURATION - THROUGH FIN

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ATRIUM COMPANIES, INC.
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TITLE: SERIES 120/130
HORIZONTAL SLIDER
(NON-HVHZ)/(NON-IMPACT)
ANCHOR LAYOUTS

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DANIA BEACH, FL 33004
PH: (954) 399-4878
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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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 #: FL20472

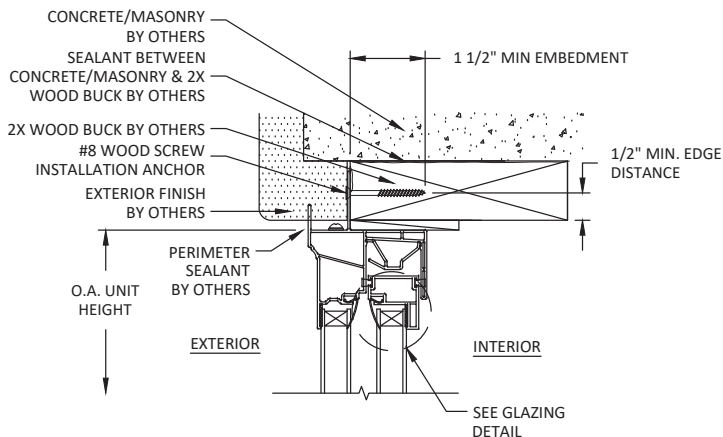
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DWG. BY: AR/AG **CHK. BY:** HFN

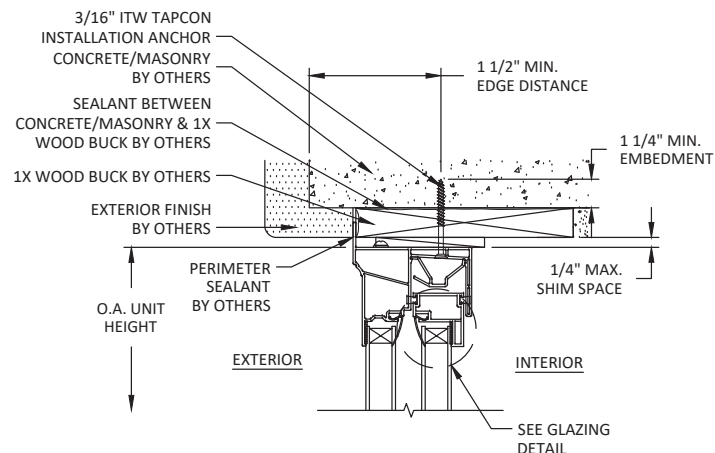
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DWG. #: ATR116

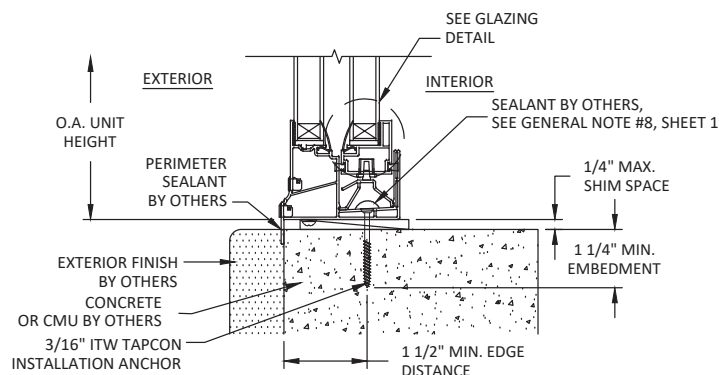
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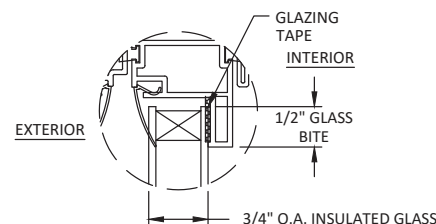
A
4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
THROUGH FLANGE



C
4 **VERTICAL SECTION**
HEAD - 1X BUCK/CONCRETE/MASONRY
THROUGH FRAME



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



GLAZING DETAIL

NOTE:
GLASS TYPE & THICKNESS SHALL COMPLY WITH
ASTM E 1300 GLASS CHARTS.



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TITLE: **SERIES 120/130**
HORIZONTAL SLIDER
(NON-HVHZ/(NON-IMPACT))
VERTICAL SECTIONS AND GLAZING DETAIL

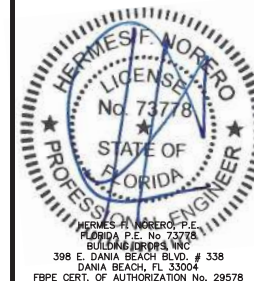
PREPARED BY: **BUILDING DROPS, INC.**

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DANIA BEACH, FL 33004
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REMARKS	BY	DATE
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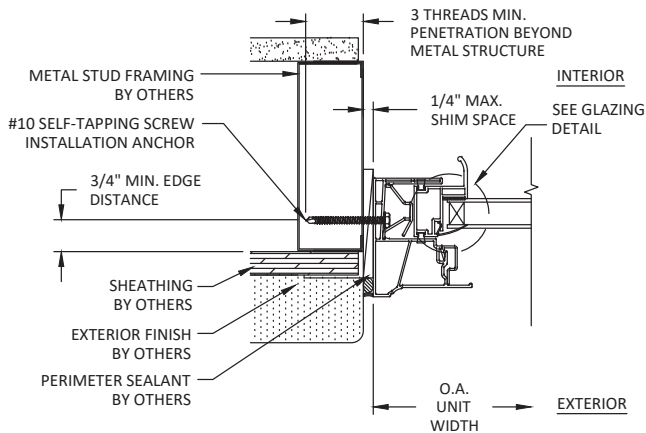
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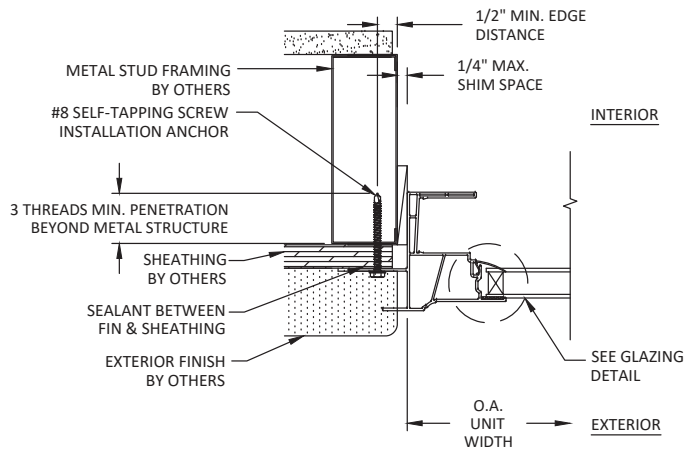
FL #:	FL20472
DATE:	10.03.17
DWG. BY:	AR/AG
CHK. BY:	HN
SCALE:	NTS
DWG. #:	ATR116
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4

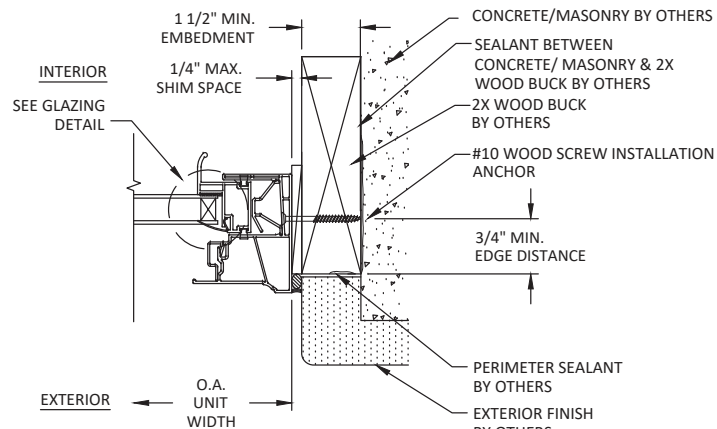
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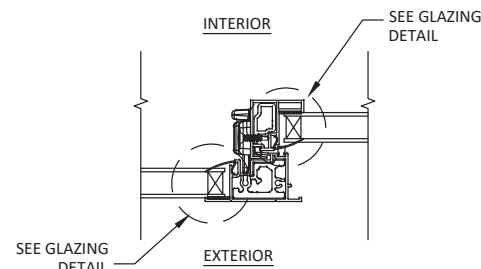
D
5 **HORIZONTAL SECTION**
OPERABLE JAMB - METAL STUD FRAME
THROUGH FRAME



E
5 **HORIZONTAL SECTION**
FIXED JAMB - METAL STUD FRAME
THROUGH FLANGE



F
5 **HORIZONTAL SECTION**
OPERABLE JAMB - 2X WOOD BUCK
THROUGH FRAME



G
5 **HORIZONTAL SECTION**
MEETING STILE



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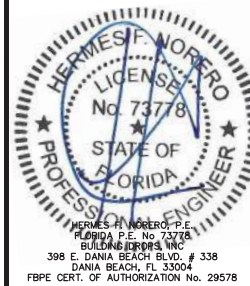
TITLE: **SERIES 120/130**
HORIZONTAL SLIDER
(NON-HVHZ/(NON-IMPACT))
HORIZONTAL SECTION

PREPARED BY: **BUILDING DROPS, INC.**
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FL #:	
FL20472	
DATE: 10.03.17	
DWG. BY:	CHK. BY:
AR/AG	HFN
SCALE: NTS	
DWG. #: ATR116	
SECTION:	