



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 Window	20100.1
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION	Reliabt	Mullion	22377.1
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.

6/30/2023

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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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(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/WDMA/CSA 101/1.52/4440-05/08
 - 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.

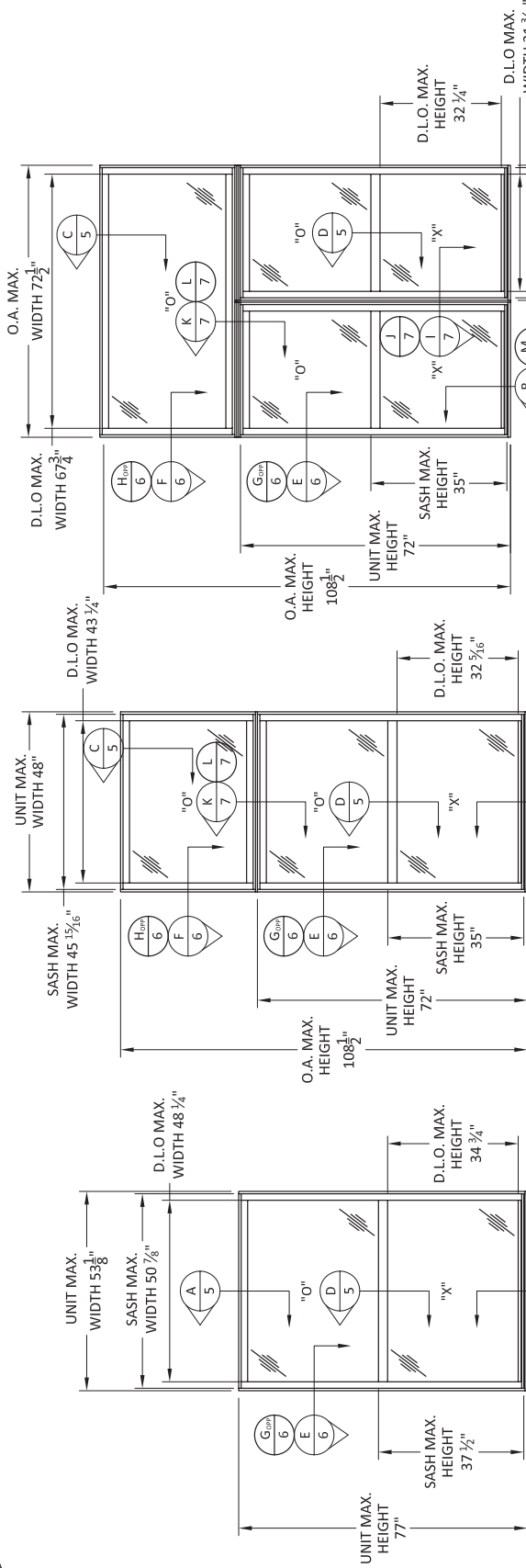
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT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

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

6. WINDOW FRAME MATERIAL: PVC

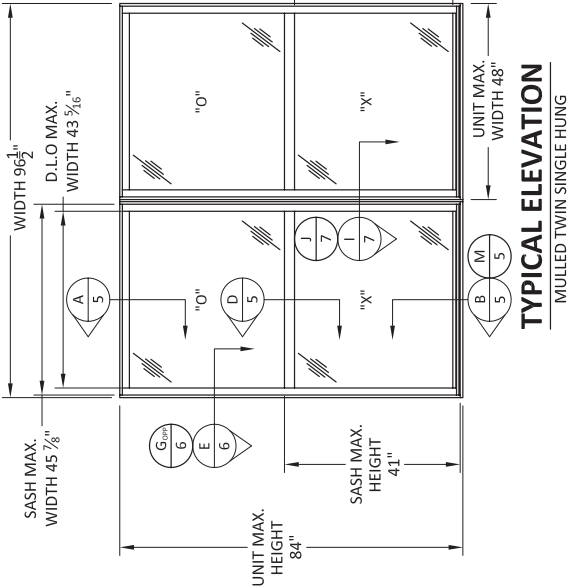
7. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE CURRENT FBC.

8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 7 FOR GLAZING DETAIL.
- | 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 |
- PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 444-4738
FAX: (954) 444-4738
WEB: www.buildingdrops.com
- TITLE:
SINGLE HUNG WINDOW
SERIES 130
INSTALLATION & GENERAL NOTES
-
- | 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. Moreno
Reason: I am approving this document
Date: 2022.04.17 15:00:58 -0400
-
- HERNES F. MORENO, P.E.
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:
- 1
- OF 7

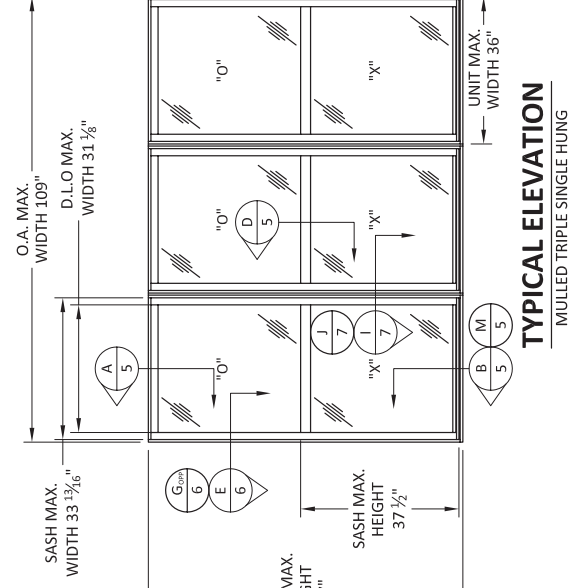


TYPICAL ELEVATION
SINGLE HUNG W/ TRANSOM

TYPICAL ELEVATION
TWIN SINGLE HUNG W/ TRANSOM



TYPICAL ELEVATION
MULLED TWIN SINGLE HUNG



TYPICAL ELEVATION
MULLED TRIPLE SINGLE HUNG

3903 AMBASSADOR ROW
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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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HERMES F. KOBERO, P.E.
REGISTERED PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
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: CHK. BY:

YC HFN

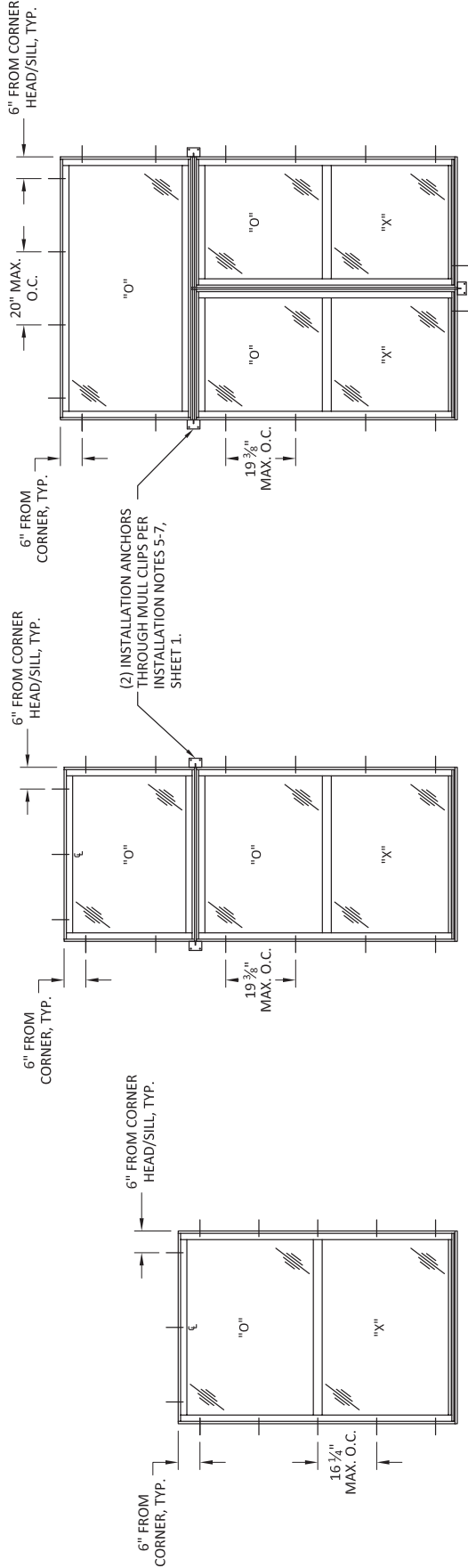
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DWG. #: ATR113

SECTION:

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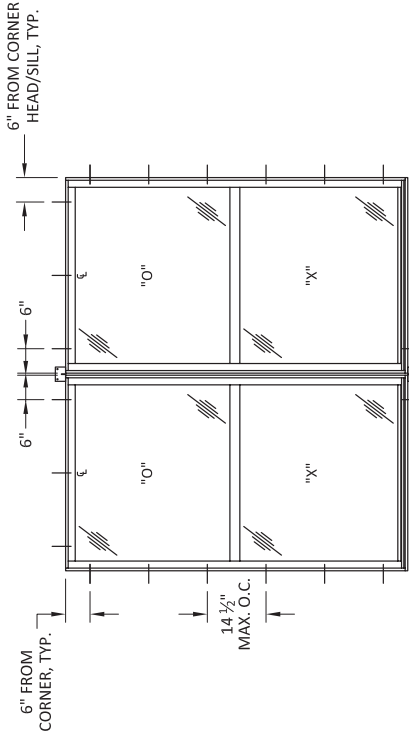
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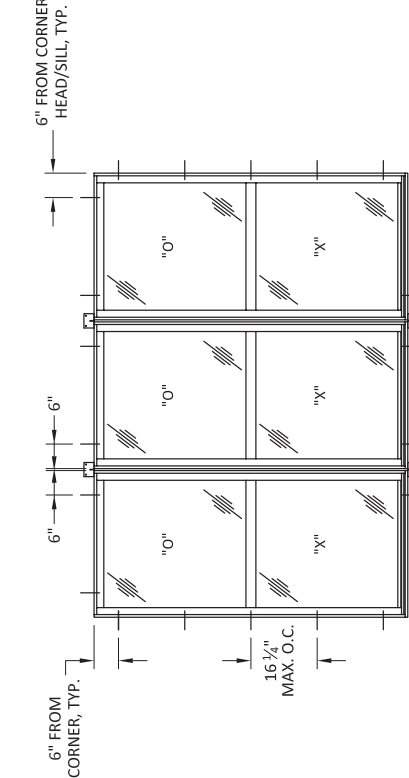
ANCHOR LAYOUT
SINGLE HUNG - THROUGH FRAME

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

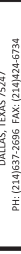
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D-ALUMINUM SUBSTRATE	YC	04.16.20

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HERMES Y. KOBERO, 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

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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR113
SECTION:	3



TITLE: _____

S _____

SINGLE _____

ANCHOR LAY _____

PREPARED BY: _____

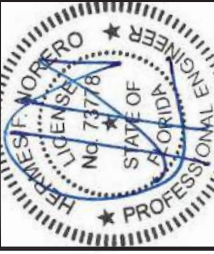
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HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
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398 E. DANIA BEACH BLVD. # 338
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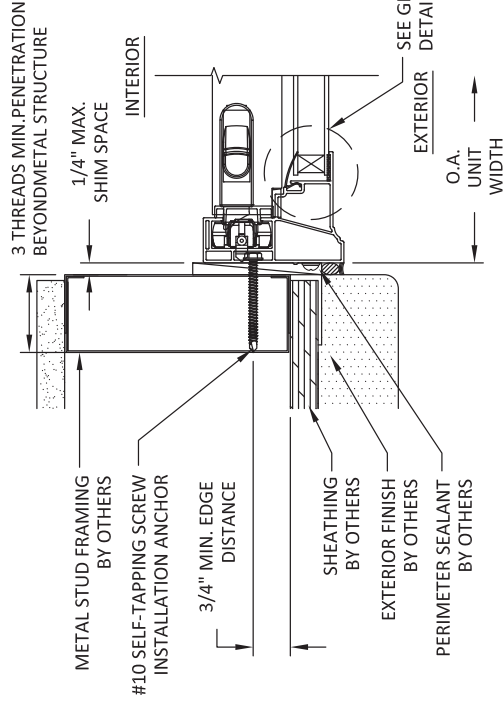
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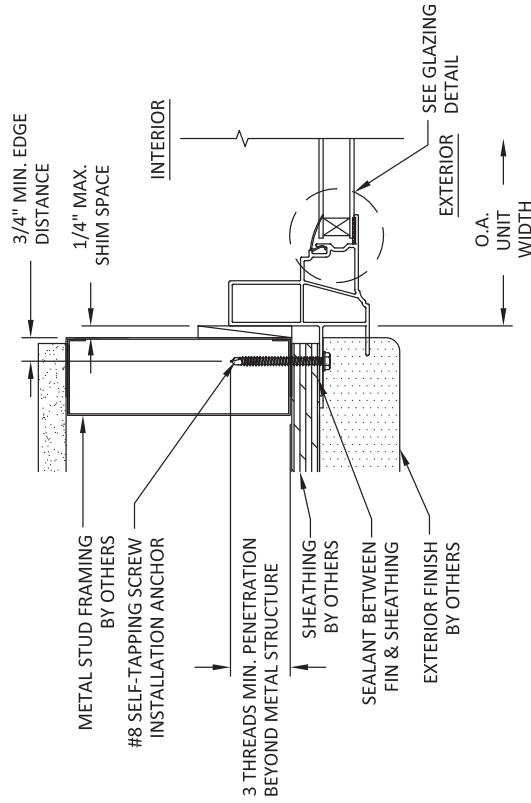
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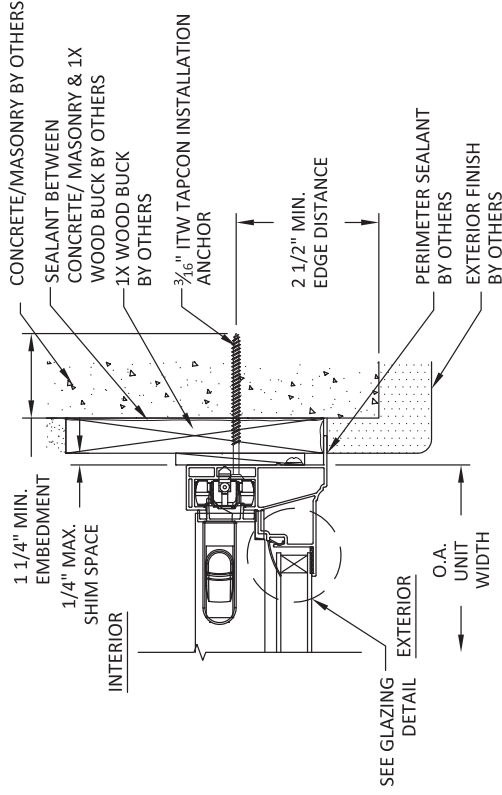




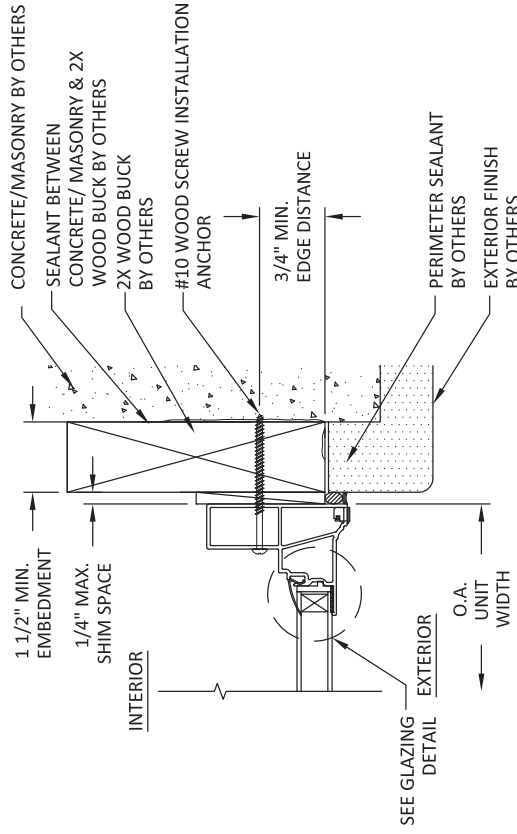
E **HORIZONTAL SECTION**
6 SINGLE HUNG JAMB - METAL STUD FRAME
THROUGH FRAME



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

REMARKS	BY	DATE
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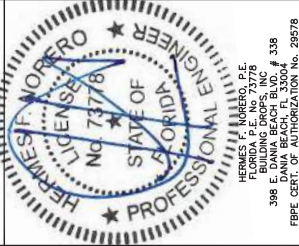


HERMES F. KORO, P.E.
FLORIDA PROFESSIONAL ENGINEER
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DAVIA BEACH, FL 33004
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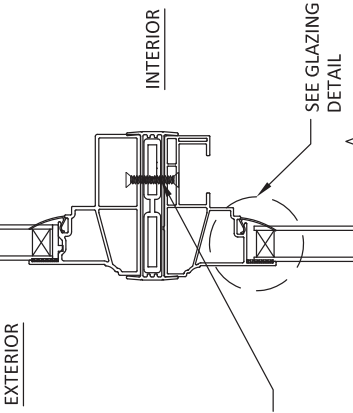
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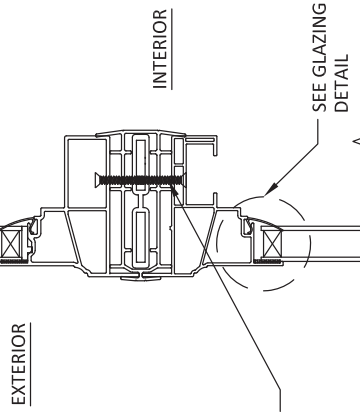
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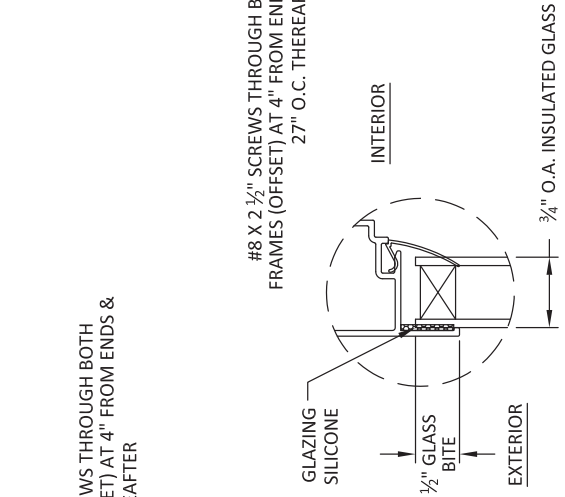
FL #:	FL20100
DATE:	01.02.2020
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ATR113
SECTION:	



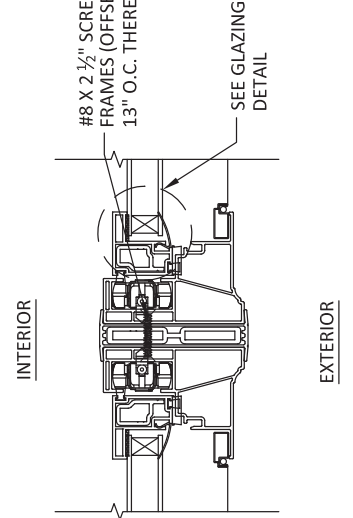
K **VERTICAL SECTION**
1/2" HORIZONTAL MULLION



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

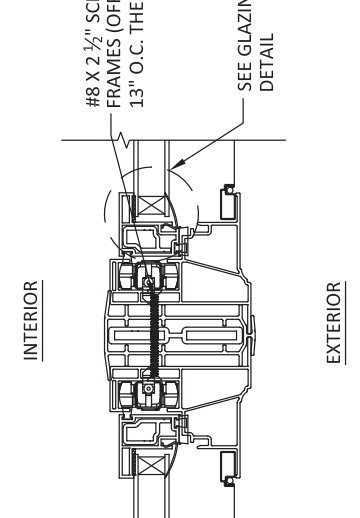


GLAZING DETAIL



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



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


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Search Criteria
[Refine Search](#)

Code Version	2020	FL#	22377.1
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
FL22377	New	Atrium Windows & Doors FL#: FL22377.1 Model: Series 130 Mullion Description: 1.25" Aluminum Tube Mullion, Non-Impact Category: Windows Subcategory: Mullions	Locke Bowden P.E. (334) 300-1800	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 CORPORATION

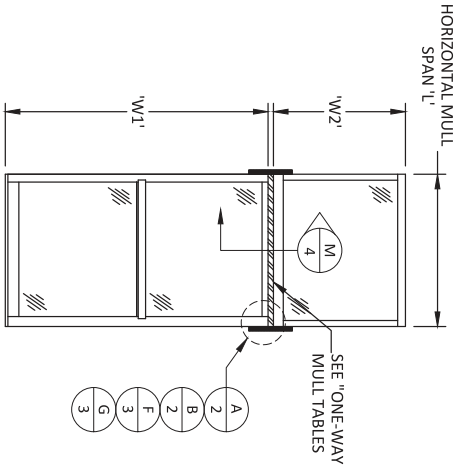
SERIES 130 1.25" TUBE MULLION (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

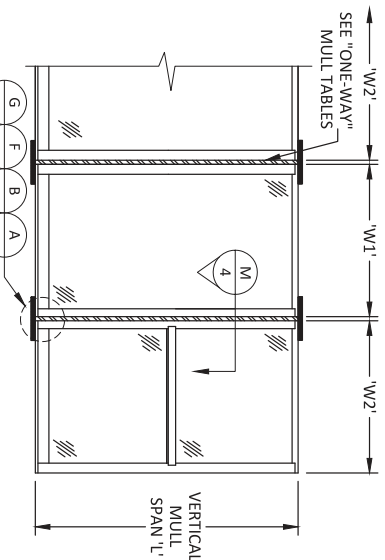
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ, AND HAVE BEEN EVALUATED TO 7TH EDITION (2020) FLORIDA BUILDING CODE, SECTION 1709.8.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE 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.

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

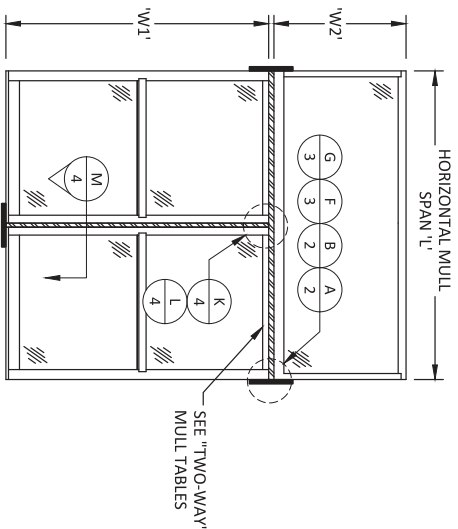
SHEET	SHEET DESCRIPTION
1	INSTALLATION, GENERAL NOTES & ELEVATIONS
2	MULLION DETAILS (STANDARD CLIP)
3	MULLION DETAILS (OFFSET CLIP)
4	TWO-WAY DETAILS & FRAME DETAIL
5	ONE-WAY MULL TABLES (TAPCONS ONLY)
6	ONE-WAY MULL TABLES (ALL OTHER ANCHORS)
7	TWO-WAY MULL TABLES (TAPCONS ONLY)
8	TWO-WAY MULL TABLES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



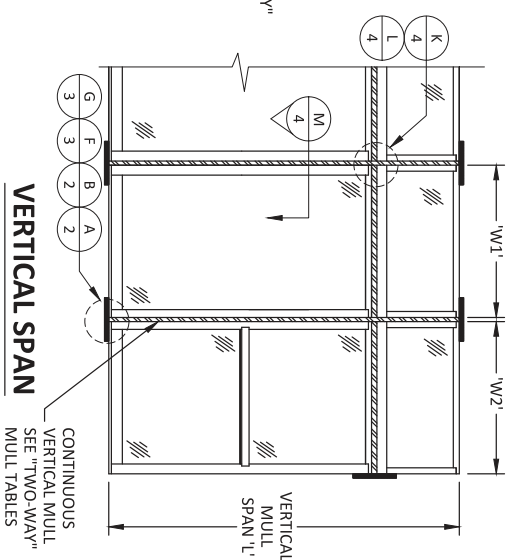
HORIZONTAL SPAN



VERTICAL SPAN



HORIZONTAL "T" MULL SPAN



VERTICAL SPAN



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

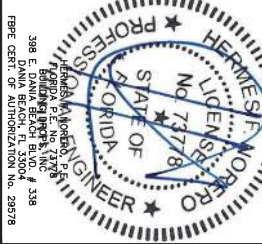
INSTALLATION, GENERAL NOTES & ELEVATIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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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Digitally signed by Hermes F. Noreno
Reason: I am approving this document
Date: 2020.04.14 15:00:15 -0400



FL #: FL22377

DATE: 10.03.17

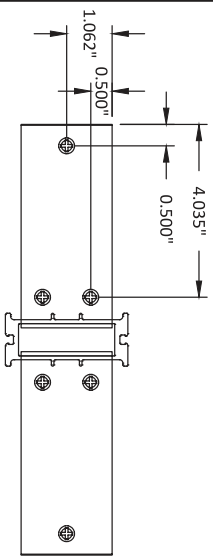
DWG. BY: AR/AG CHK. BY: HFN

SCALE: NTS

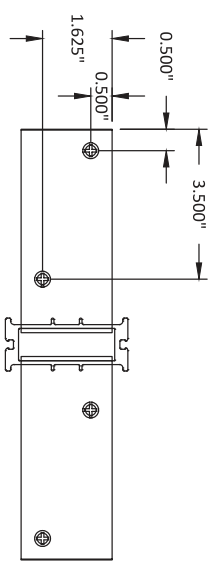
DWG. #: ATR110

SECTION: 1

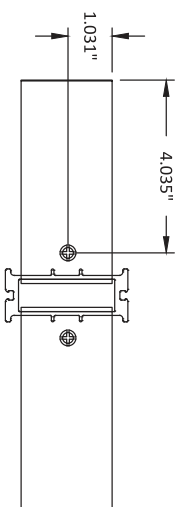
OF 8



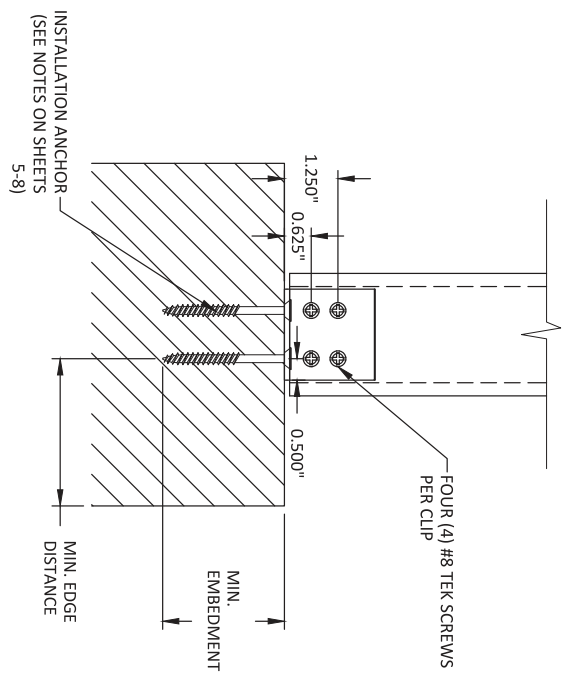
C
2 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
WOOD OR STEEL STUD INSTALLATION



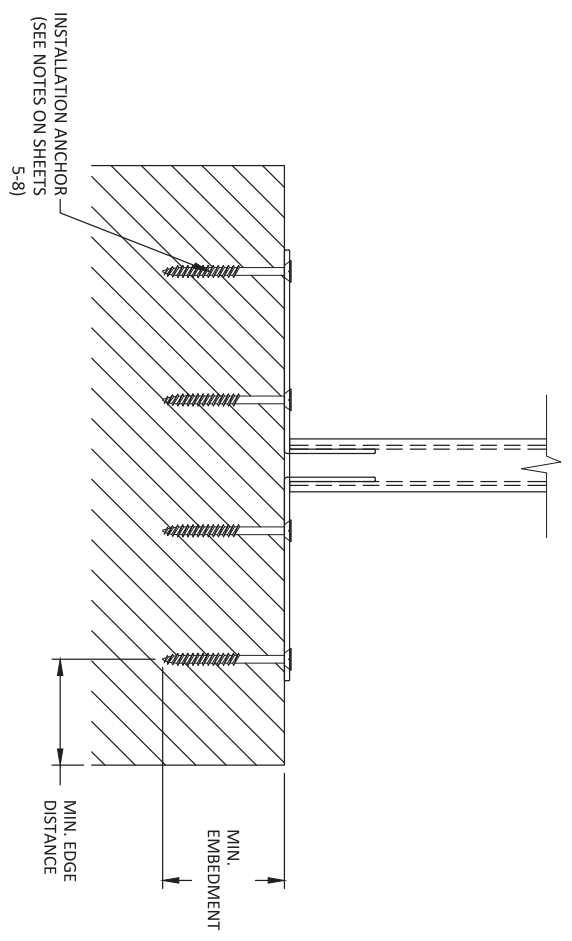
D
2 **TOP VIEW**
END CLIP DETAIL WITH HOLE LAYOUT
ITW TAPCONS INTO CONCRETE/MASONRY



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

ATRUM
WINDOWS AND DOORS
ATRILIUM WINDOWS AND DOORS
5901 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214)937-2696 FAX: (214)424-6734

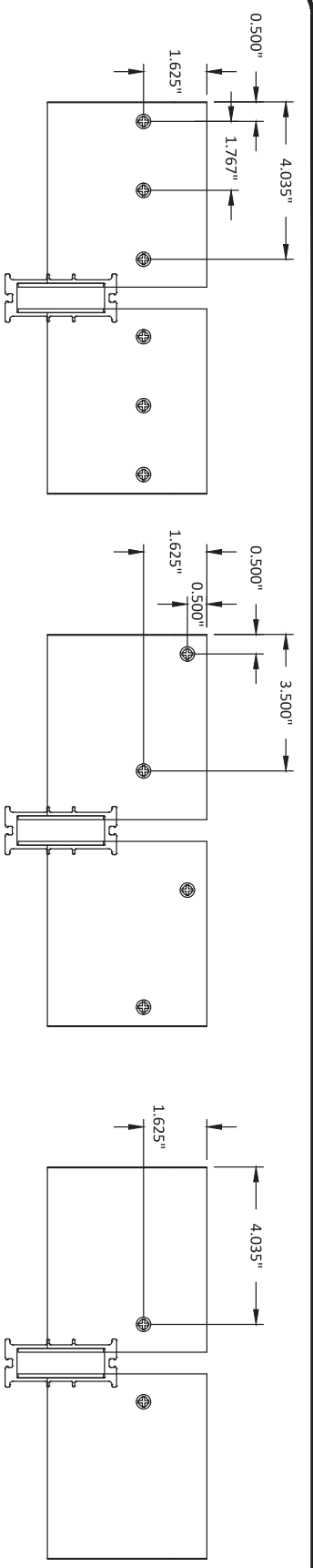
TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)
MULLION DETAILS
(STANDARD CLIP)
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
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MULLION: INVALIDATE OUR CERTIFICATION.

HERMES ENGINEERING
STATE OF FLORIDA
No. 7378
Professional Engineer
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

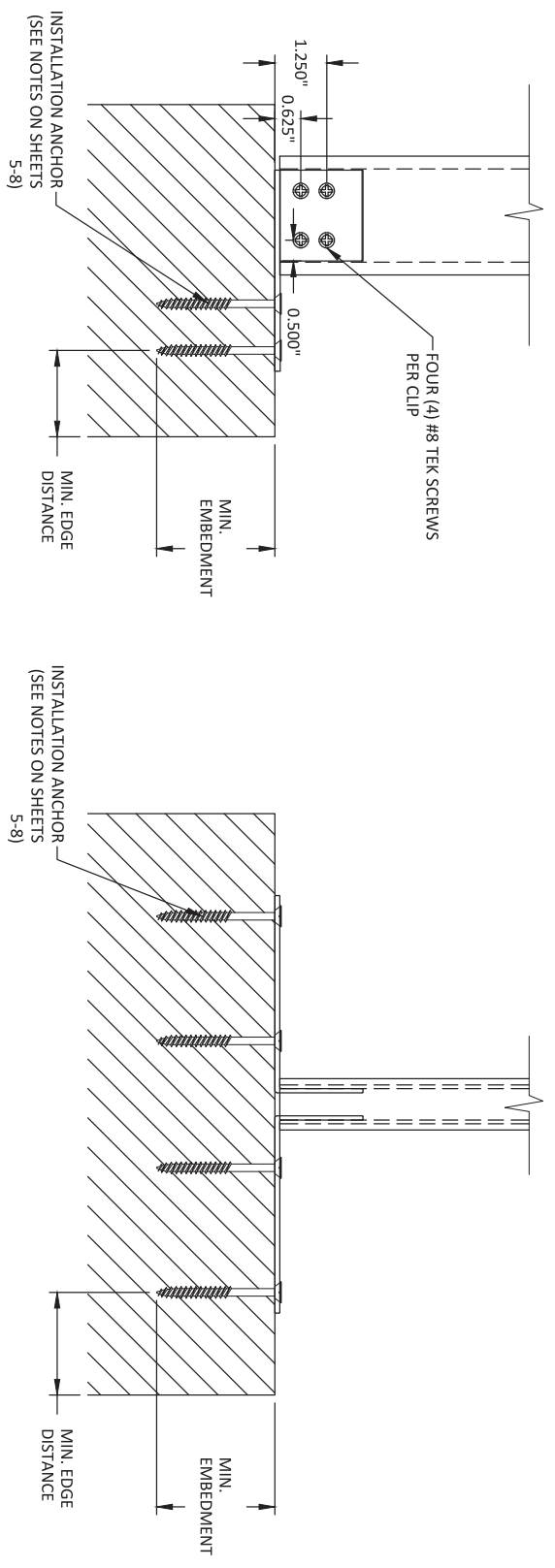
FL #: FL22377
DATE: 10.03.17
DWG. BY: AR/AG
CHK. BY: HFN
SCALE: NTS
DWG. #: ATR110
SECTION: 2
OF 8



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

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

ATRIVUM
WINDOWS AND DOORS
5901 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214)937-2696 FAX: (214)424-6734

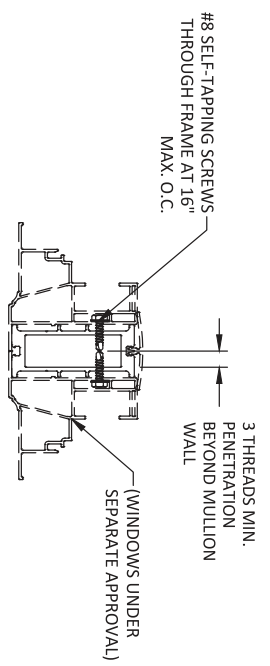
TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)
MULLION DETAILS
(OFFSET CLIP)
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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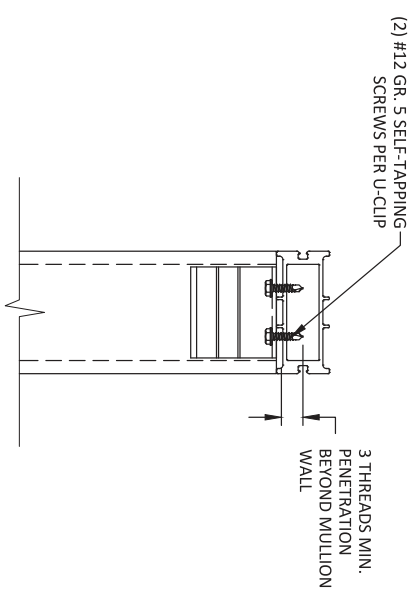
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HERMES ENGINEERING
STATE OF FLORIDA
No. 7378
Professional Engineer
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBC CERT. OF AUTHORIZATION No. 29578

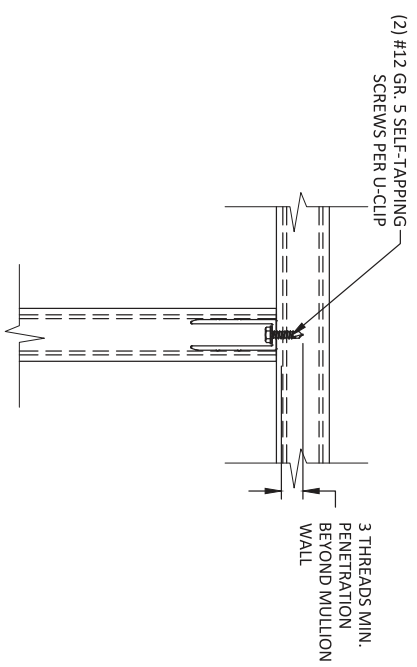
FL #: FL22377
DATE: 10.03.17
DWG. BY: AR/AG **CHK. BY:** HFN
SCALE: NTS
DWG. #: ATR110
SECTION: 5
OF 8



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



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



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

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

TWO-WAY DETAILS &
FRAME DETAIL

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

REMARKS	BY	DATE
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VIOLATION OF THIS NOTICE WILL BE CAUSE FOR
IMMEDIATE ACTION AND WILL BE CONSIDERED A
VIOLATION OF THE BUILDING DROPS, INC. TERMS AND
CONDITIONS OF SALE AND/OR SERVICE AGREEMENT AND
WARRANTY. IT IS THE RESPONSIBILITY OF THE USER TO
VALIDATE OUR CERTIFICATION.

HERMES ENGINEERING
STATE OF FLORIDA
No. 7378
Professional Engineer
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FLPE CERT. OF AUTHORIZATION No. 29578

FL #: FL22377

DATE: 10.03.17

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

SCALE: NTS

DWG. #: ATR110

SECTION: 4

OF 8

ATRILUM
WINDOWS AND DOORS
ATRILUM WINDOWS AND DOORS
5901 AMBASSADOR ROW
DALLAS, TEXAS 75247
PH: (214)937-2696 FAX: (214)424-6734

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.



5001 AMHERSTWOODS ROW
DALLAS, TEXAS 75247
PH: (214)937-2696 FAX: (214)242-6734

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
PH: (954)399-8478
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
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HERMES ENGINEERING
STATE OF FLORIDA
No. 7378
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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)

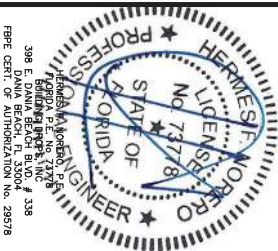
PREPARED BY:
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DANIA BEACH, FL 33004
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REMARKS

BY	DATE
SM	06.03.14
LS	04.14.16
AG	10.03.17
LL	11.11.20

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FLPE CERT. OF AUTHORIZATION No. 29578

FL #: FL22377

DATE: 10.03.17

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

SCALE: NTS

DWG. #: ATR110

SECTION:



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:

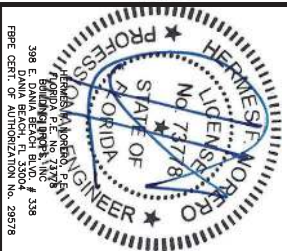
- MULLION CHART APPLIES TO MULLION ASSEMBLIES WHEN USED TO MULL WINDOWS IN TWO-WAY CONFIGURATIONS SHOWN ON SHEET 1 USING ITW TAPCON ANCHORS ONLY. SEE DETAILS D/2, 1/3, K/4 & L/4.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- DESIGN PRESSURE 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 & 1/3.
- 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.



TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
(NON-HVHZ)(NON-IMPACT)
TWO-WAY MULL TABLES
(TAPCONS ONLY)
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BUILDING DROPS, INC.
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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: 7
OF 8

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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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 ALL OTHER ANCHOR OPTIONS. SEE DETAILS C/2, E/2, H/3, J/3, K/4, & L/4.
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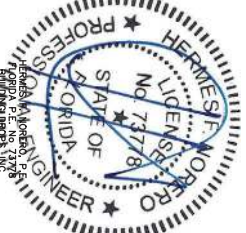
TITLE: 130 1.25" TUBE MULLION
VERTICAL & HORIZONTAL
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TWO-WAY MULL TABLES
(ALL OTHER ANCHORS)

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STATE OF FLORIDA
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DANIA BEACH, FL 33004
FBC CERT. OF AUTHORIZATION No. 29578

FL #: **FL22377**

DATE: 10.03.17

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

SCALE: **NTS**

DWG. #: **ATR110**

SECTION: 

OF 8