



# 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](http://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 | Atrium       | Single Hung         | 20100.1 20100.2    |
| B. HORIZONTAL SLIDER  | Atrium       | Sliding Window      | 20472.1            |
| C. CASEMENT           |              |                     |                    |
| D. FIXED              |              |                     |                    |
| E. MULLION            | Atrium       | 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.

APPLICANT SIGNATURE

1/29/2024

DATE



**Product Approval**  
USER: Public User

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



OFFICE OF THE  
SECRETARY

### Search Criteria

|                               |      |   |         |
|-------------------------------|------|---|---------|
| Code Version                  | 2023 | 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  |   | ALL     |

[Refine Search](#)

### Search Results - Applications

| FL#  | Type        | Manufacturer   | Validated By  | Status   |
|--|-------------|--|---|----------|
| <a href="#">FL20100-RL6</a><br><a href="#">History</a> | Affirmation | Atrium Windows & Doors<br><b>FL#:</b> FL20100.1<br><b>Model:</b> Series 120/130 Single Hung Continuous Head and Sill (CHS)<br><b>Description:</b> Twin and Triple CHS Windows<br><b>Category:</b> Windows<br><b>Subcategory:</b> Single Hung | National Accreditation & Management Institute<br>(804) 684-5124 | Approved |

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

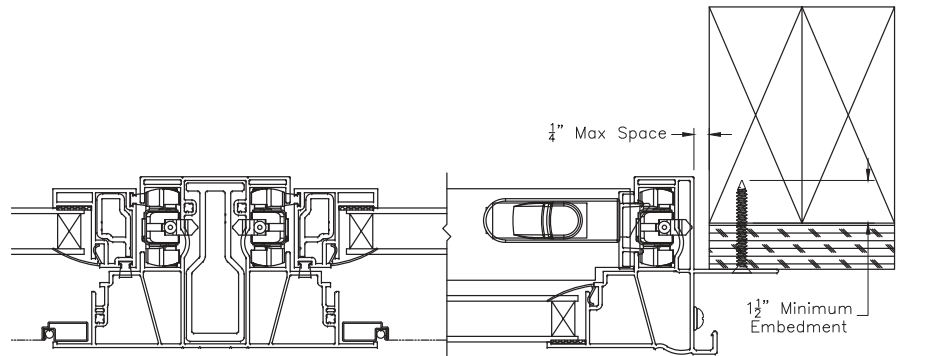
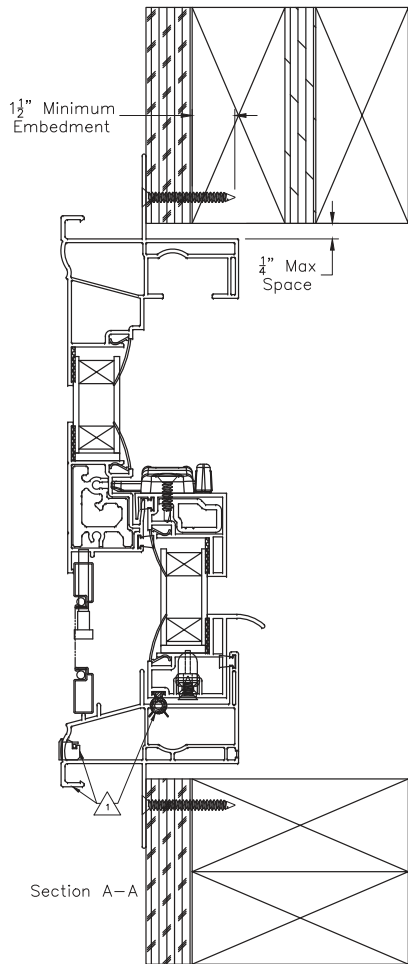
[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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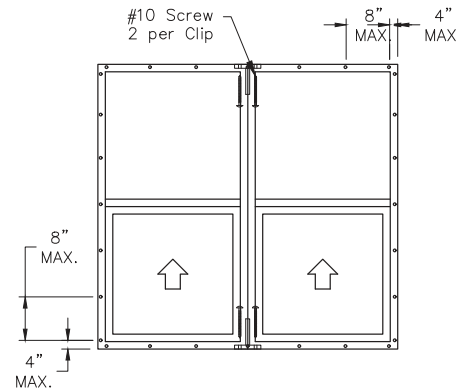
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#### Product Approval Accepts:





Section B-B



Elevation View

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

NOTES:

1. 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.
2. 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 8" PER CURRENT NDS.
3. WOOD FRAMING SHALL BE SPRUCE-PINE-FIR (G=0.42) OR DENSER.
4. INSTALLATION ANCHORS SHALL BE LOCATED WITHIN 1/2" OF THE SPECIFIED LOCATION.
5. MAXIMUM SHIM SPACE SHALL BE 1/4". SPACES GREATER THAN 1/16" REQUIRE LOAD BEARING SHIMS.
6. 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 8" PER CURRENT NDS.
7. INSTALLATION ANCHORS SHALL BE LOCATED 2" FROM CORNERS AND 8" MAXIMUM ON CENTER SPACING.
8. THESE INSTRUCTIONS ADDRESS STRUCTURAL REQUIREMENTS ONLY. WINDOWS SHALL BE INSTALLED PER ASTM E2112 OR FMA/AAMA 100.
9. SMALLER WINDOWS OF THE SAME CONSTRUCTION AND EQUAL OR LESSER DESIGN PRESSURES ARE COVERED BY THIS DRAWING.
10. GLAZING TYPE, GLASS TYPE, AND GLASS THICKNESS ARE ESTABLISHED BY THE CERTIFICATION AND SHALL SATISFY ASTM E1300. GLAZING TYPE SHALL BE INSULATING GLASS.
11. PRODUCTS LISTED IN TABLE 1 ARE NOT IMPACT RESISTANT. IF USED IN WIND-BORNE DEBRIS REGIONS, APPROVED PROTECTION DEVICES ARE REQUIRED.
12. PRODUCT OR INSTALLATION IS NOT APPROVED FOR HIGH VELOCITY HURRICANE ZONE (HVHZ)

THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL TO ATRIUM COMPANIES, INC. AND SHALL NOT BE REPRODUCED, COPIED, OR DISSEMINATED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF ATRIUM COMPANIES, INC.

**ATRIUM**  
COMPANIES, INC.

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

| No.                              | Date             | Revision Description                              | By         | ECN #              |
|----------------------------------|------------------|---|------------|--------------------|
| 1                                | ---              | ---   | ---        | ---                |
| 3                                | 5/22/2013        | Removed "85" from series name. Updated file name. | JTS        |                    |
| Material (Type-Alloy-Temper):    |                  |   |            |                    |
| Est. Area (in <sup>2</sup> ): NA |                  | Tolerances: X.XX = ±X.XX                          |            |                    |
| Est. Weight (lb/ft): NA          |                  | X.XXX = ±X.XXX                                    |            |                    |
|                                  |                  | X.X' = ±X.X'                                      |            |                    |
| Drawn By: CRA                    | Approved By: --- | Date: 9-14-2009                                   | Scale: 1:2 | Sheet Size: ANSI B |
| ECN# (Initial Issue): 2008-1369  |                  | File Name: ADW-01 120 SH ASSY                     |            |                    |



**Product Approval**  
USER: Public User

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

OFFICE OF THE  
SECRETARY

**Search Criteria**

|                               |      |   |         |
|-------------------------------|------|---|---------|
| Code Version                  | 2023 | FL #                                      |         |
| Application Type              | ALL  | Product Manufacturer                      | 20100.2 |
| 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  |   | ALL     |

[Refine Search](#)

**Search Results - Applications**

| <a href="#">FL #</a>                | <a href="#">Type</a> | <a href="#">Manufacturer</a>   | <a href="#">Validated By</a>                                    | <a href="#">Status</a> |
|-------------------------------------|----------------------|--|---|------------------------|
| <a href="#">FL20100-R16 History</a> | Affirmation          | Atrium Windows & Doors<br>FL #: FL20100.2<br>Model: Series 130 Single Hung<br>Description: Single Hung Window<br>Category: Windows<br>Subcategory: Single Hung | National Accreditation & Management Institute<br>(804) 684-5124 | Approved               |

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

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**Product Approval Accepts:**







ATRUM WINDOWS AND DOORS

9001 AMBASSADOR ROW

DALLAS, TEXAS 75247

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

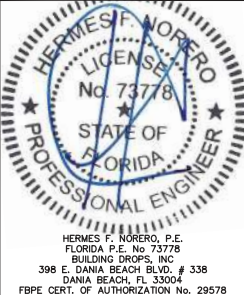
TITLE:  
SERIES 130  
SINGLE HUNG WINDOW

ELEVATIONS

PREPARED BY:  
BUILDING DROPS, INC.  
388 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-9478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

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

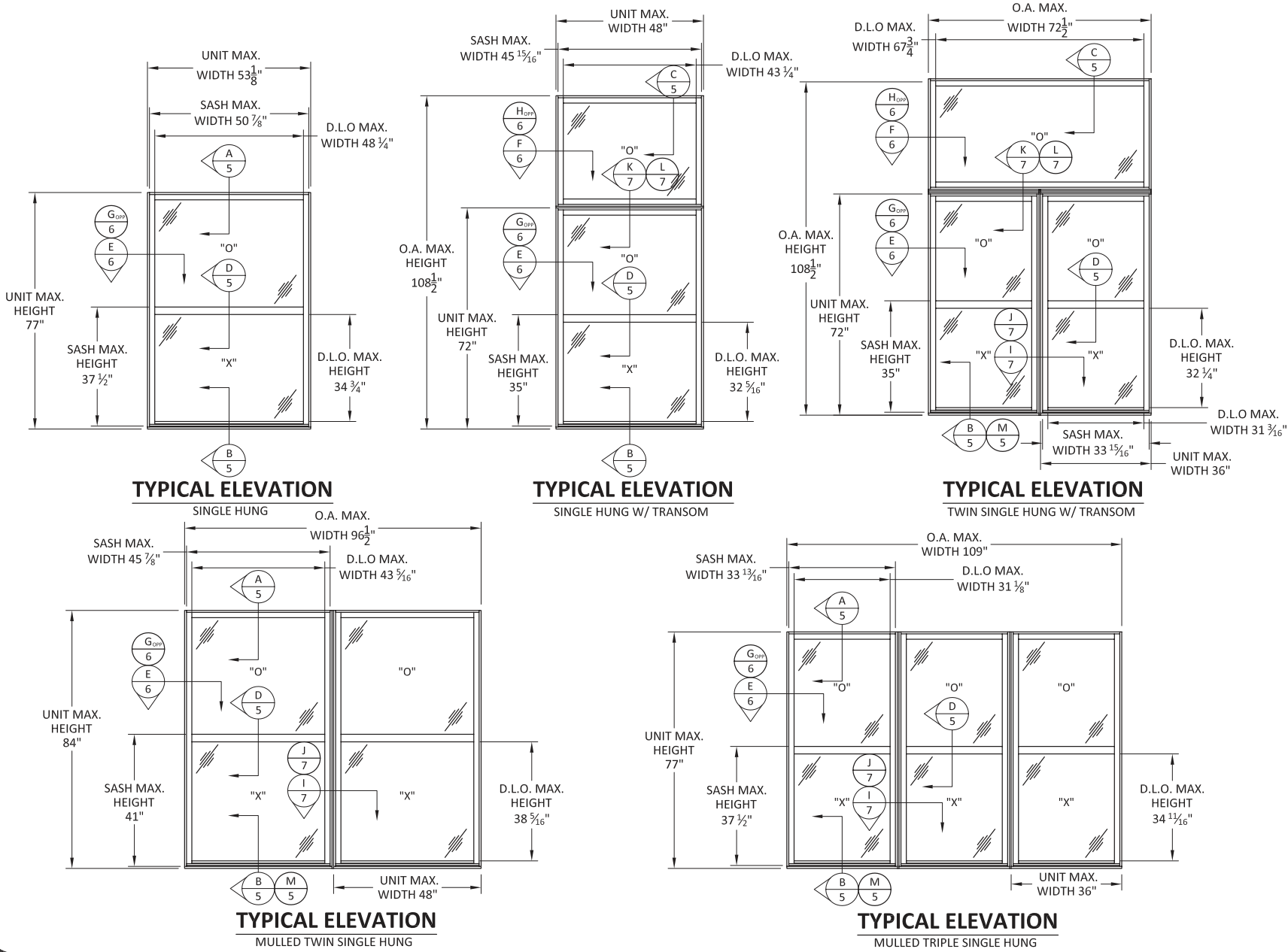
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



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

2

OF 7







ATRUM WINDOWS AND DOORS

9001 AMBASSADOR ROW

DALLAS, TEXAS 75247

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

TITLE:  
SERIES 130  
SINGLE HUNG WINDOW

ANCHOR LAYOUTS - THROUGH FRAME

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

PH: (954)399-9478

FAX: (954)744-4738

WEB: www.buildingdrops.com



| 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. NORERO, P.E.

FLORIDA P.E. No. 73778

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., # 338

DANIA BEACH, FL 33004

FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL20100**

DATE: **01.02.2020**

DWG. BY: **YC** CHK. BY: **HFN**

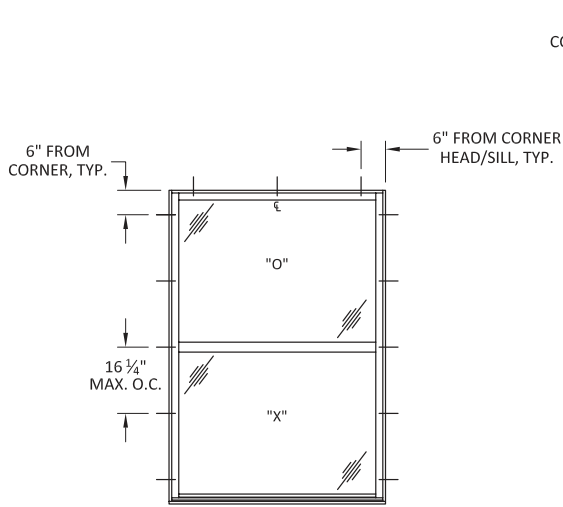
SCALE: **NTS**

DWG. #: **ATR113**

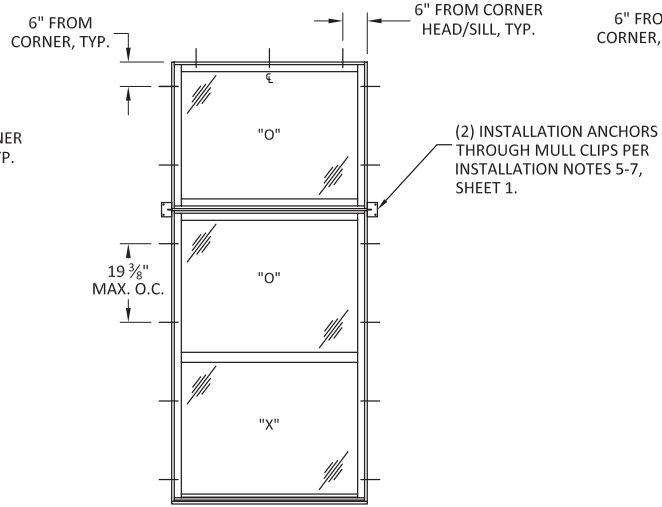
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**3**

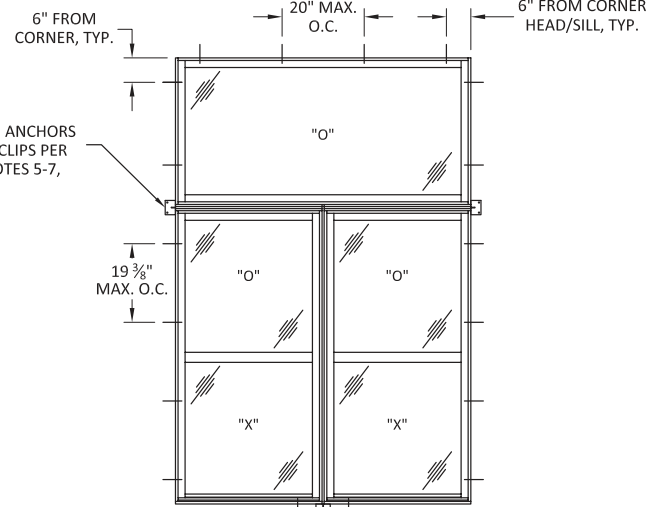
OF 7



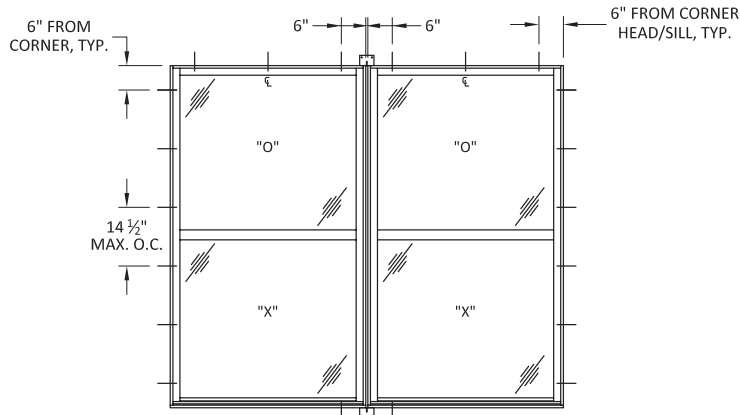
**ANCHOR LAYOUT**  
SINGLE HUNG - THROUGH FRAME



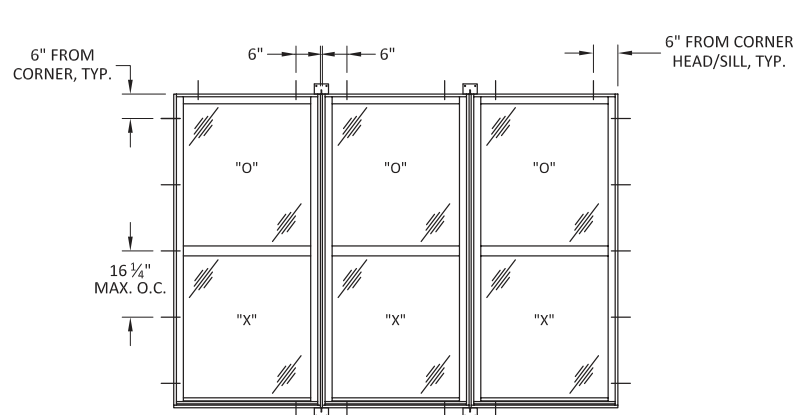
**ANCHOR LAYOUT**  
SINGLE HUNG W/ TRANSOM - THROUGH FRAME



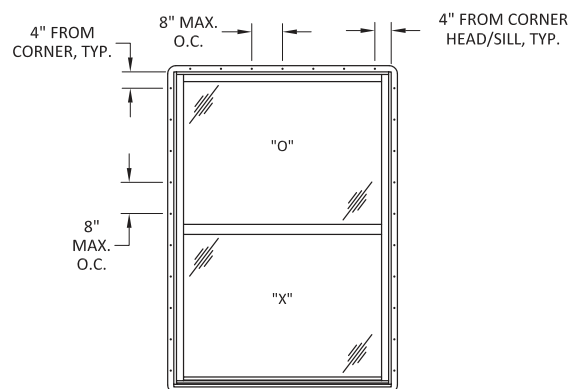
**ANCHOR LAYOUT**  
TWIN SINGLE HUNG W/ TRANSOM - THROUGH FRAME



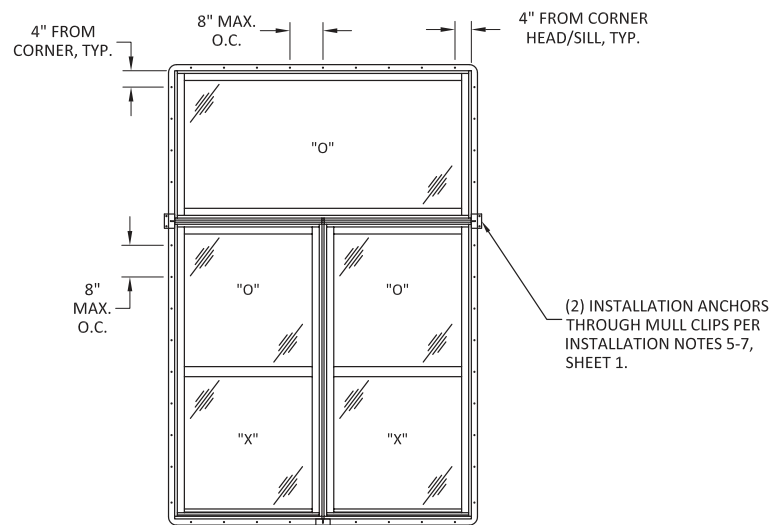
**ANCHOR LAYOUT**  
MULLED TWIN SINGLE HUNG - THROUGH FRAME



**ANCHOR LAYOUT**  
MULLED TRIPLE SINGLE HUNG - THROUGH FRAME

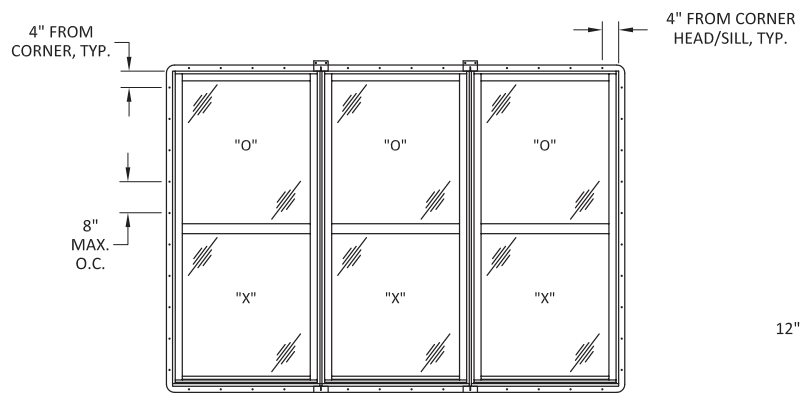


## ANCHOR LAYOUT

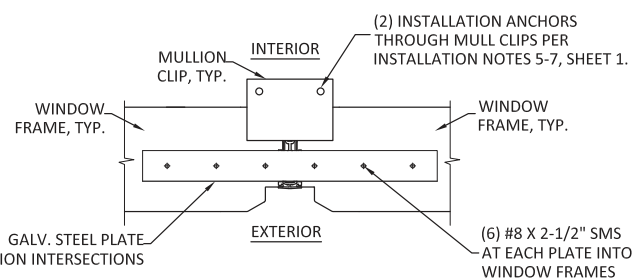


## ANCHOR LAYOUT

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



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



### MULLION PLATE DETAIL

TYPICAL WHEREVER MULLION CLIPS OCCUR



TITLE: **SERIES 130**  
**SINGLE HUNG WINDOW**

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](http://www.buildingdrops.com)

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

FL #: **FL20100**

DATE: 01.02.2020

|                |                 |
|----------------|-----------------|
| DWG. BY:<br>YC | CHK. BY:<br>HFN |
|----------------|-----------------|

SCALE: NTS

DWG. #: ATR113

SECTION:

4

OF 7

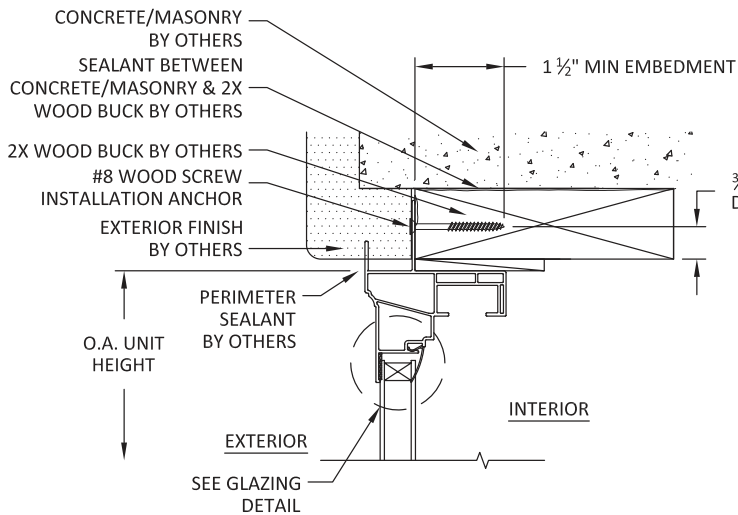


| REMARKS                   | BY | DATE     |
|---------------------------|----|----------|
| A-FBC 5th ED. CODE CHANGE | SM | 06.03.14 |
| B-CERT AGENCY UPDATE      | LS | 02.27.17 |
| C-FBC 2017 CODE CHANGE    | AG | 10.03.17 |
| D-ALUMINUM SUBSTRATE      | YC | 04.16.20 |

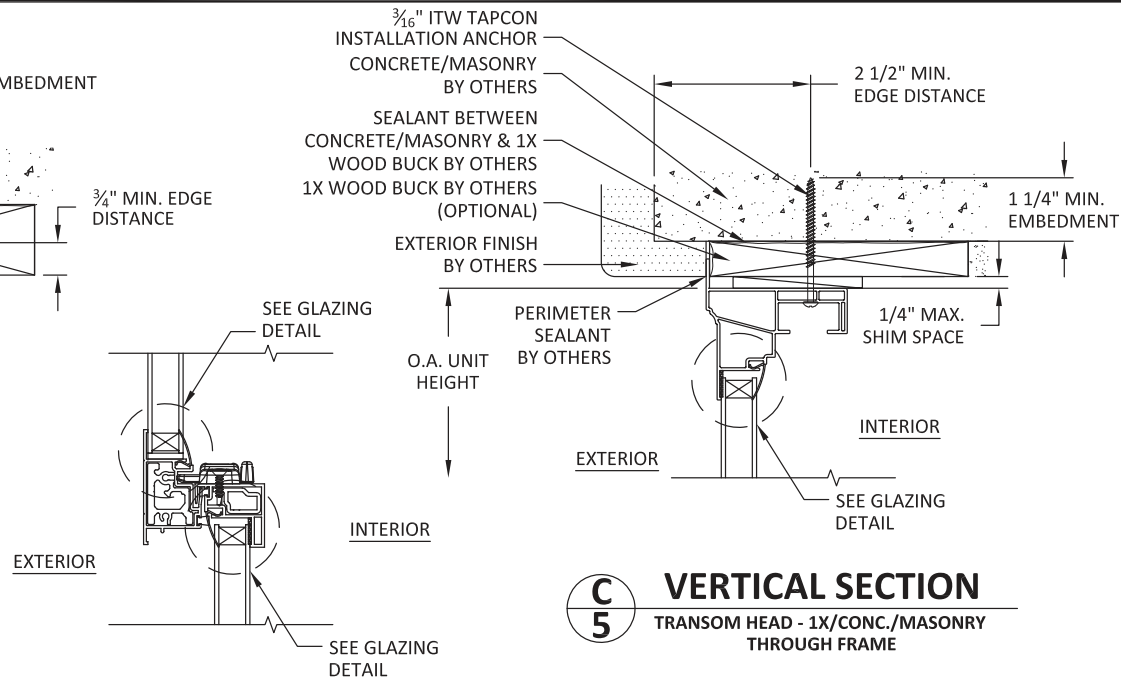
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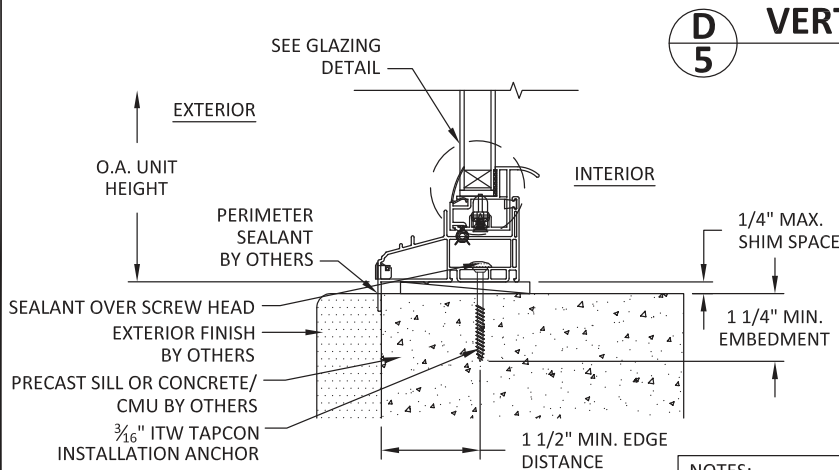
|          |                   |
|----------|-------------------|
| FL #:    | <b>FL20100</b>    |
| DATE:    | <b>01.02.2020</b> |
| DWG. BY: | <b>YC</b>         |
| CHK. BY: | <b>HFN</b>        |
| SCALE:   | <b>NTS</b>        |
| DWG. #:  | <b>ATR113</b>     |
| SECTION: | <b>5</b>          |



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

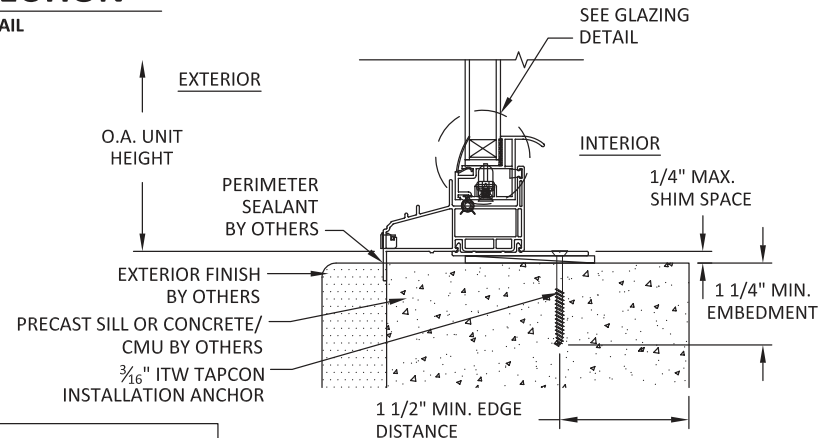


**C**  
**5**  
**VERTICAL SECTION**  
**TRANSOM HEAD - 1X/CONC./MASONRY THROUGH FRAME**



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

**D**  
**5**  
**VERTICAL SECTION**  
**MEETING RAIL**

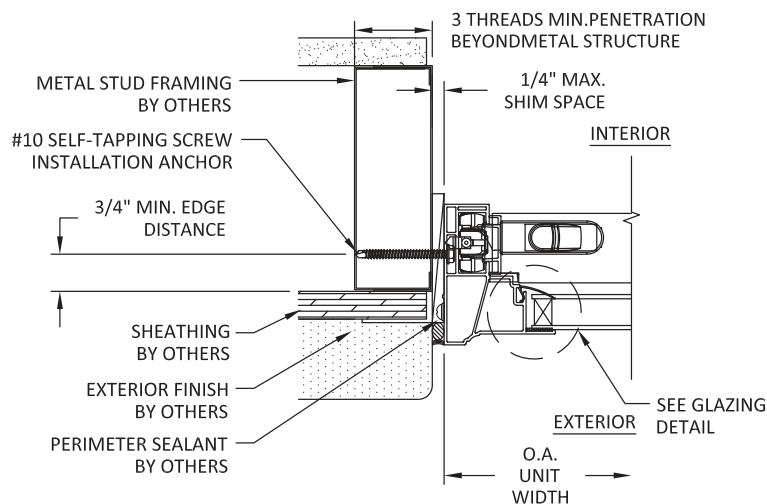


**M**  
**5**  
**VERTICAL SECTION**  
**SILL - CONCRETE/MASONRY THROUGH SILL CLIP**

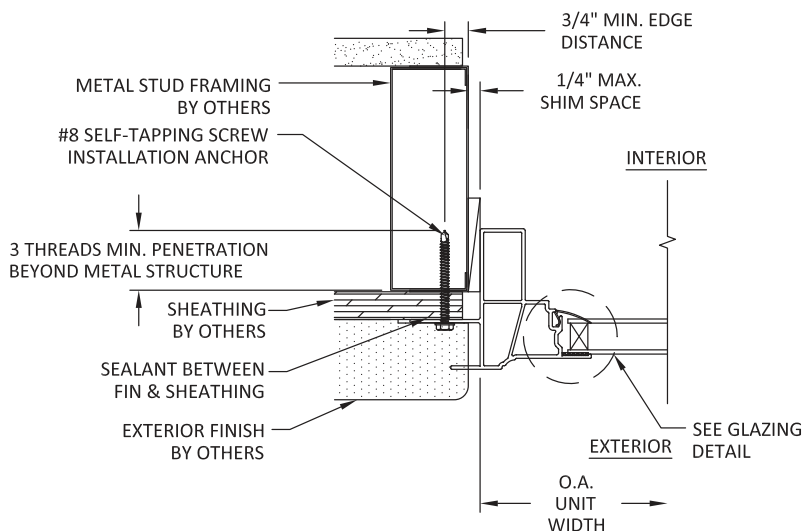
- NOTES:**
1. SILL ANCHORS ARE FOR FACTORY MULLED UNITS ONLY, SEE SHEET 3.
  2. USE (1) SILL CLIP PER ANCHOR LOCATION. SILL CLIPS ARE TO BE USED IN MINIMUM 14 3/4" LENGTHS.

4/16/2020 2:25 PM

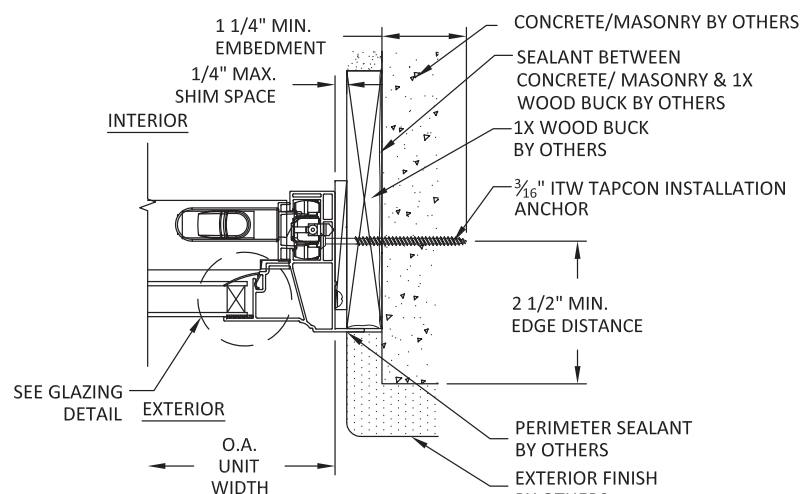
s:\projects\ply gem windows\lbc-19-109 - lbc submital - r201000.1, 3, 4, r200471.5 and 6, fl 19702.1, fl 1646, 2.dwg (r201000.1) lbc113.dwg



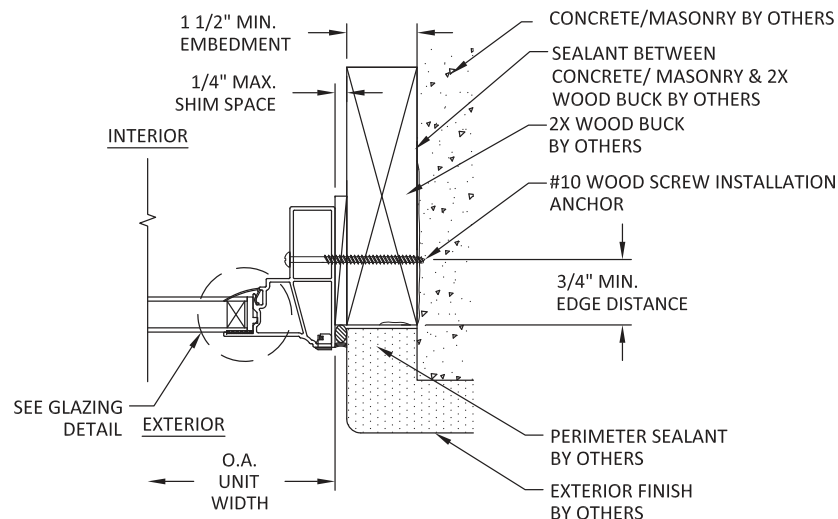
**E**  
**6** **HORIZONTAL SECTION**  
SINGLE HUNG JAMB - METAL STUD FRAME  
THROUGH FRAME



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



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



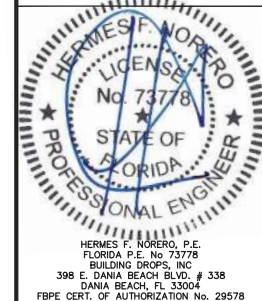
**H**  
**6** **HORIZONTAL SECTION**  
TRANSOM JAMB - 2X WOOD BUCK  
THROUGH FRAME

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

TITLE: **SERIES 130**  
**SINGLE HUNG WINDOW**  
HORIZONTAL SECTIONS  
PREPARED BY: **BUILDING DROPS, INC.**  
388 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-9478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

| 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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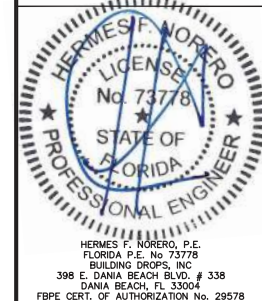
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DATE: **01.02.2020**  
DWG. BY: **YC** CHK. BY: **HFN**  
SCALE: **NTS**  
DWG. #: **ATR113**  
SECTION:

**6**

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  
PH: (954)399-9478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

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

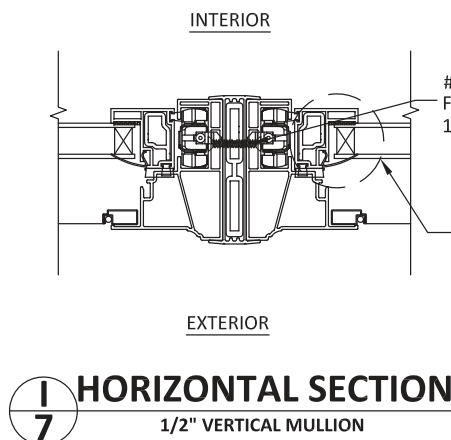
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR THIS DOCUMENT.



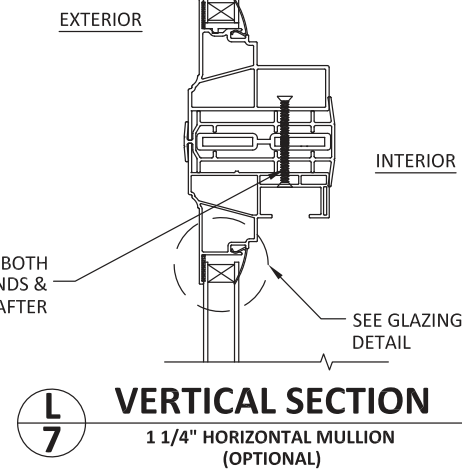
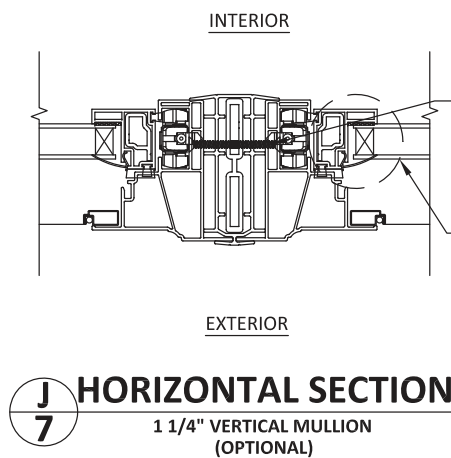
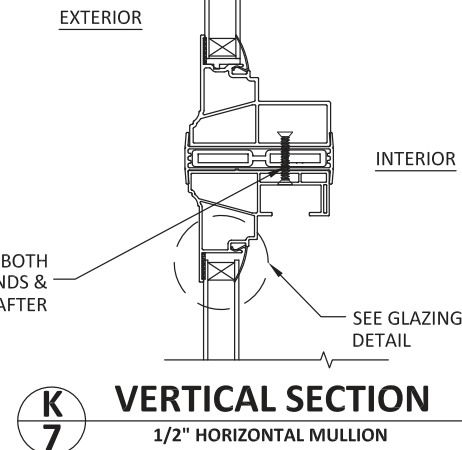
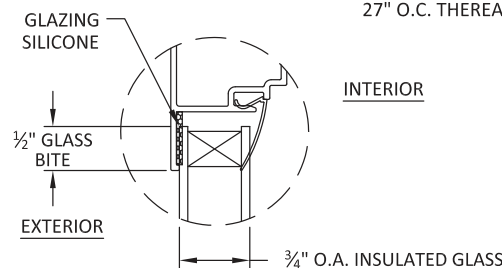
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DATE: **01.02.2020**  
DWG. BY: **YC** CHK. BY: **HFN**  
SCALE: **NTS**  
DWG. #: **ATR113**  
SECTION:

7

OF 7



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





**Product Approval**  
USER: Public User

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

OFFICE OF THE  
SECRETARY

### Search Criteria

|                               |      |   |       |
|-------------------------------|------|---|-------|
| Code Version                  | 2023 | FL #                                      | 20472 |
| 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  |   | ALL   |

[Refine Search](#)

### Search Results - Applications

| FL#                        | Type        | Manufacturer  | Validated By  | Status   |
|----------------------------|-------------|---|---|----------|
| <a href="#">FL20472-R8</a> | Affirmation | Atrium Windows & Doors<br><b>Category:</b> Windows<br><b>Subcategory:</b> Horizontal Slider | National Accreditation & Management Institute<br>(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:



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            |



ATRIUM COMPANIES, INC.  
300 Welcome Center Blvd.  
Welcome, NC 27374  
(800)-542-9118

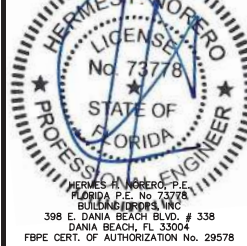
TITLE: SERIES 120/130  
HORIZONTAL SLIDER  
(NON-HVHZ)(NON-IMPACT)  
INSTALLATION & GENERAL NOTES

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 |
| 74"X63"DP REVISION     | SM  | 06.03.14 |
| FBC 2017 CODE CHANGE   | AG  | 10.03.17 |
| 2020 FBC CODE CHANGE   | NUS | 08.13.20 |

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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**

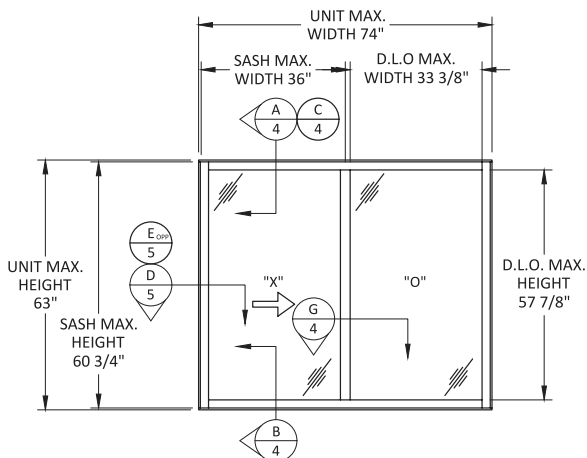
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SECTION: **1**

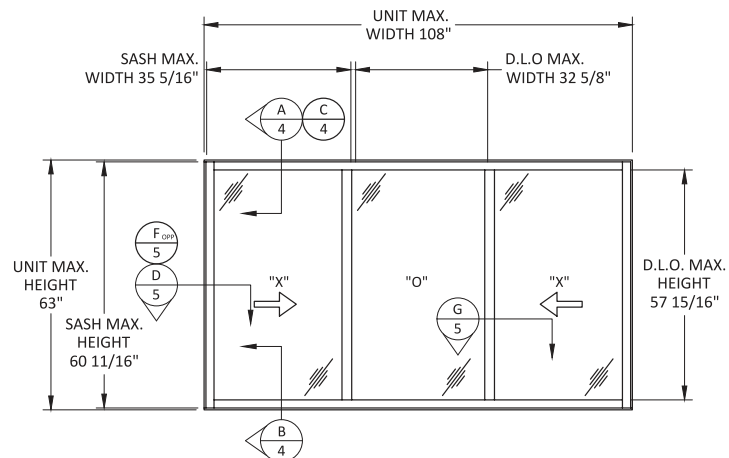
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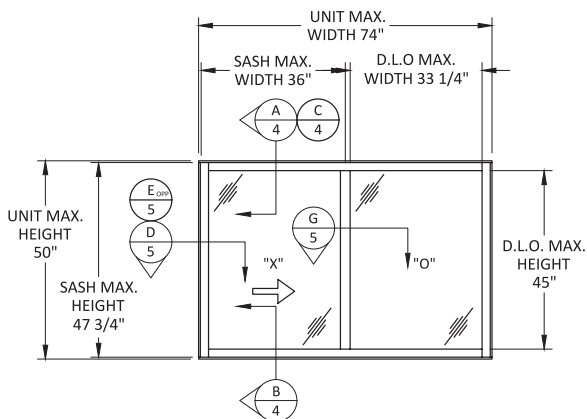
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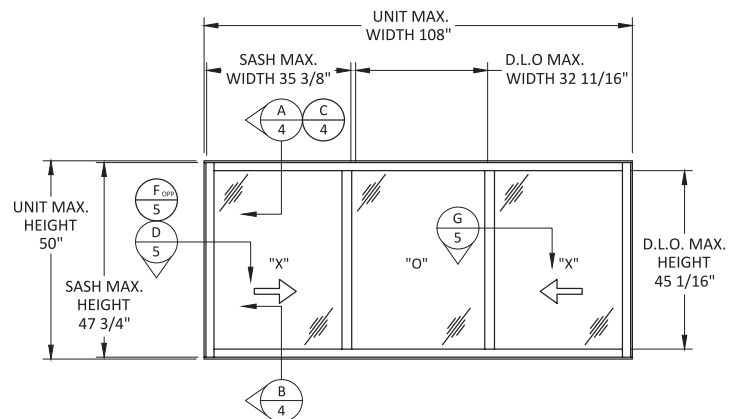
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XO CONFIGURATION



**TYPICAL ELEVATION**  
XOX CONFIGURATION



**TYPICAL ELEVATION**  
XO CONFIGURATION



**TYPICAL ELEVATION**  
XOX CONFIGURATION

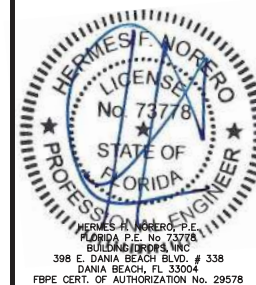


TITLE: **SERIES 120/130**  
**HORIZONTAL SLIDER**  
**(NON-HVHZ)/(NON-IMPACT)**  
ELEVATIONS

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

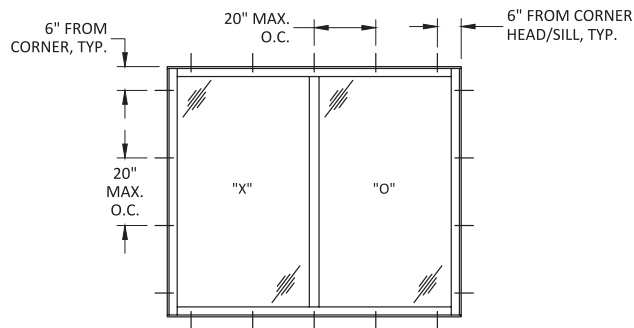
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| 74"X63"DP REVISION      | SM  | 06.03.14 |
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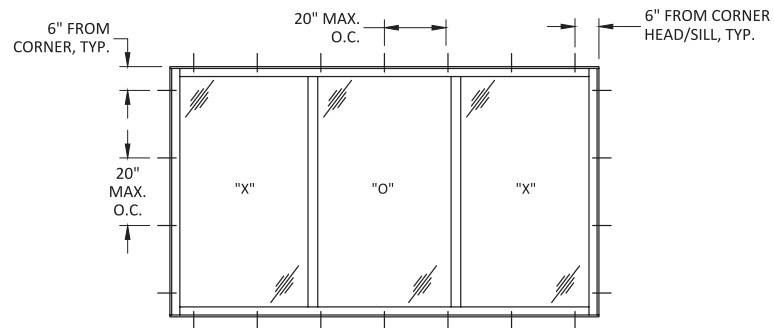


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| CHK. BY: | <b>HFN</b>      |
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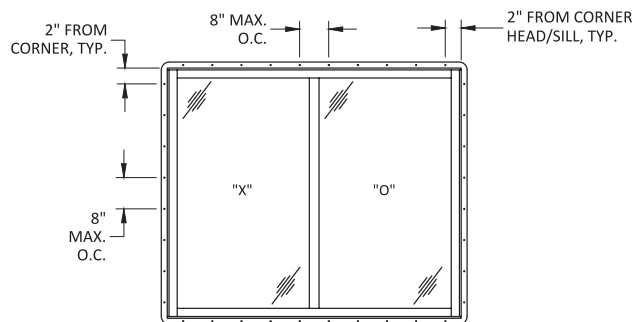




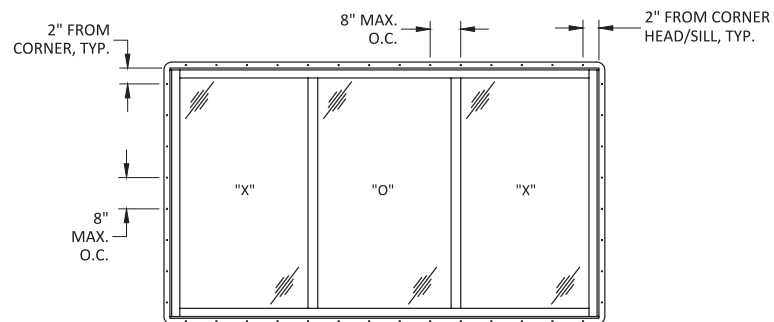
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XO CONFIGURATION - THROUGH FRAME



**ANCHOR LAYOUT**  
XOX CONFIGURATION - THROUGH FRAME



**ANCHOR LAYOUT**  
XO CONFIGURATION - THROUGH FIN



**ANCHOR LAYOUT**  
XOX CONFIGURATION - THROUGH FIN



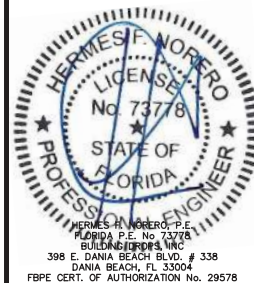
**ATRIUM COMPANIES, INC.**  
300 Welcome Center Blvd.  
Welcome, NC 27374  
(800)-542-9118

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

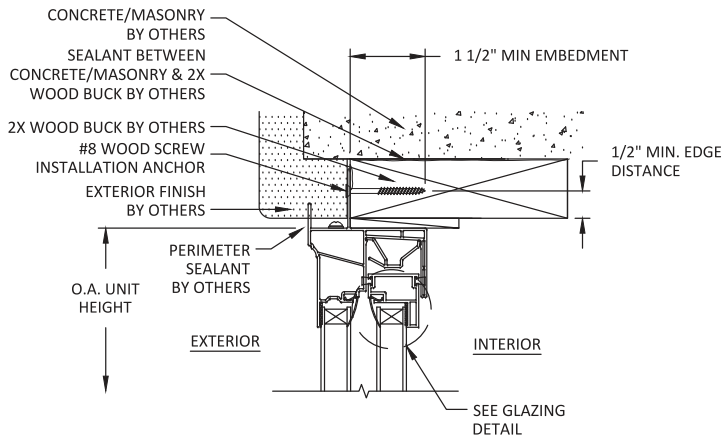
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398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
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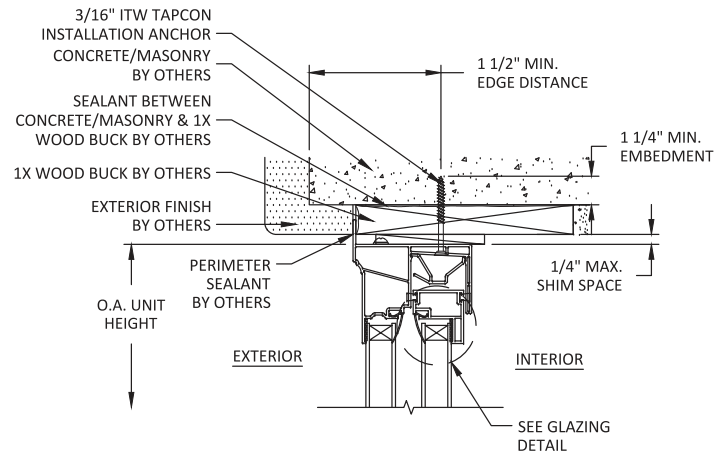
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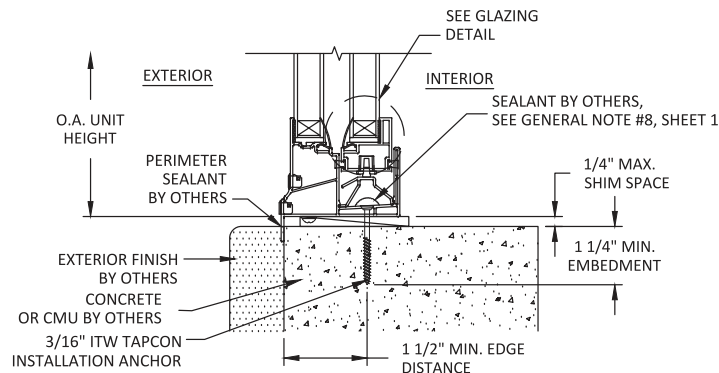
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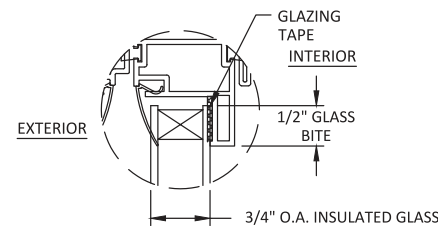
**A**  
**4** **VERTICAL SECTION**  
**HEAD - 2X WOOD BUCK**  
**THROUGH FLANGE**



**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.



ATRIUM COMPANIES, INC.  
300 Welcome Center Blvd.  
Welcome, NC 27374  
(800)-542-9118

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

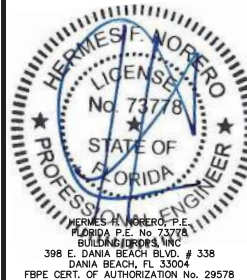
PREPARED BY: **BUILDING DROPS, INC.**

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DANIA BEACH, FL 33004  
PH: (954)399-8278  
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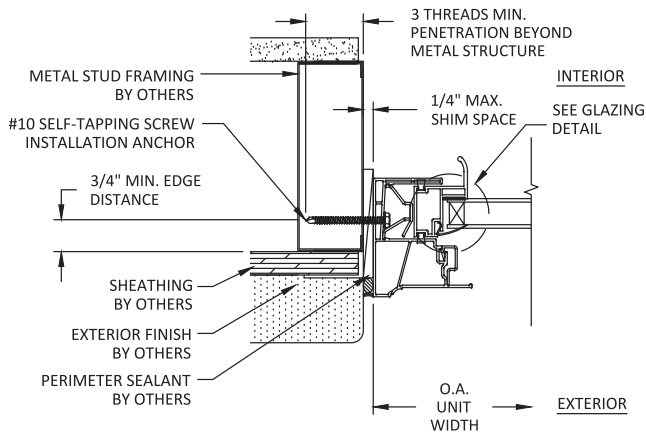


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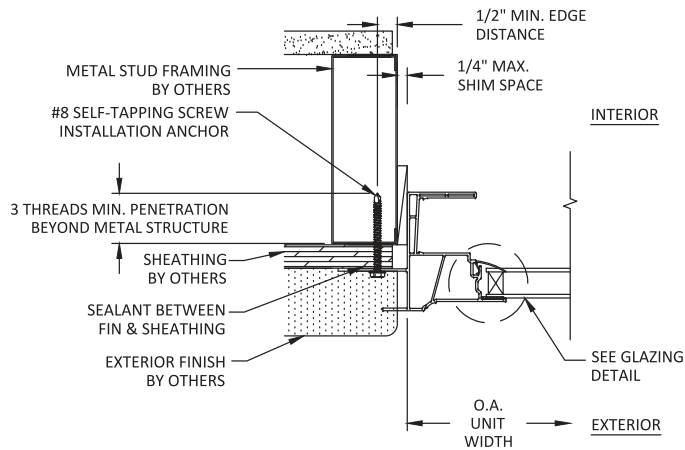
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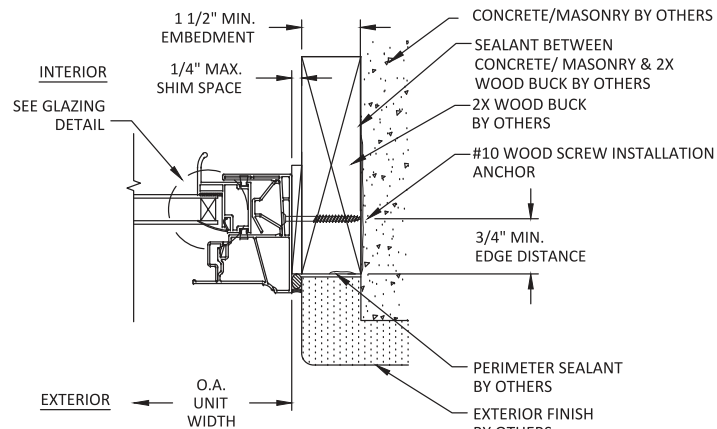
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| CHK. BY: | <b>HFN</b>      |
| SCALE:   | <b>NTS</b>      |
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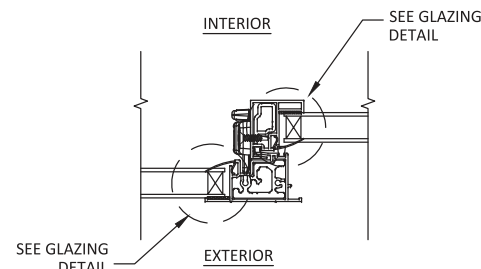
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**OPERABLE JAMB - METAL STUD FRAME**  
**THROUGH FRAME**



**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**

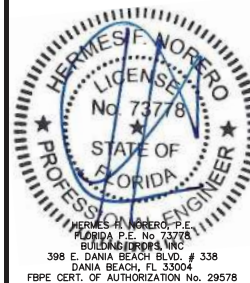


TITLE: **SERIES 120/130**  
**HORIZONTAL SLIDER**  
**(NON-HVHZ)/(NON-IMPACT)**  
**HORIZONTAL SECTION**

PREPARED BY: **BUILDING DROPS, INC.**  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33034  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

| REMARKS                 | BY  | DATE     |
|-------------------------|-----|----------|
| 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 GENERAL 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.



|          |       |          |     |
|----------|-------|----------|-----|
| FL #:    |       | FL20472  |     |
| DATE:    |       | 10.03.17 |     |
| DWG. BY: | AR/AG | CHK. BY: | HFN |
| SCALE:   |       | NTS      |     |
| DWG. #:  |       | ATR116   |     |
| SECTION: |       |          |     |



**Product Approval**  
USER: Public User

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

OFFICE OF THE  
SECRETARY

### Search Criteria

|                               |      |   |         |
|-------------------------------|------|---|---------|
| Code Version                  | 2023 | 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  |   | ALL     |

[Refine Search](#)

### Search Results - Applications

| FL #                               | Type        | Manufacturer   | Validated By                        | Status   |
|------------------------------------|-------------|--|-------------------------------------|----------|
| <a href="#">FL22377-R1 History</a> | Affirmation | Atrium Windows & Doors<br>FL #: FL22377.1<br>Model: Series 130 Mullion<br>Description: 1.25" Aluminum Tube Mullion, Non-Impact<br>Category: Windows<br>Subcategory: Mullions | Locke Bowden P.E.<br>(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

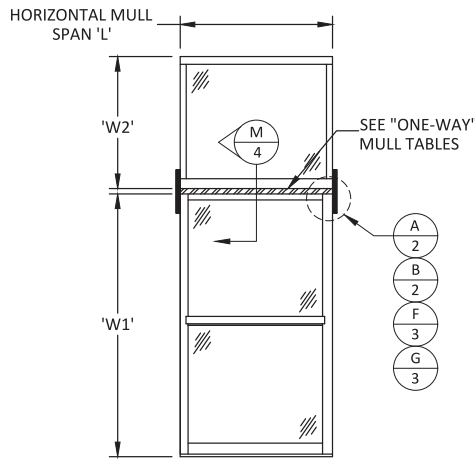
## SERIES 130 1.25" TUBE MULLION (NON-HVHZ)(NON-IMPACT)

### GENERAL NOTES:

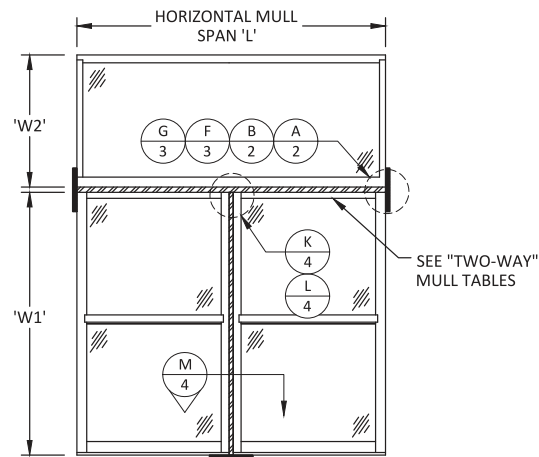
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ, AND HAVE BEEN EVALUATED TO 7TH EDITION (2020) FLORIDA BUILDING CODE, SECTION 1709.8.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND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

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

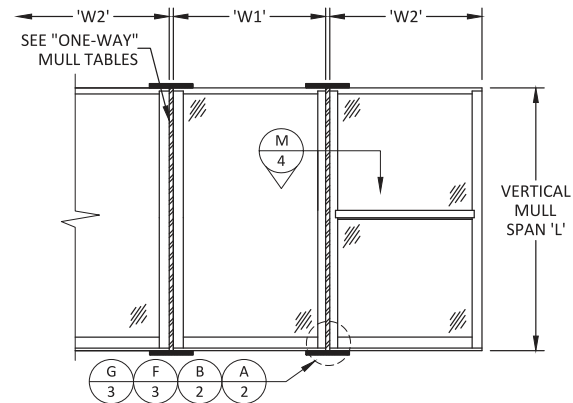
| TABLE OF CONTENTS |  |
|-------------------|--|
| SHEET             | SHEET DESCRIPTION                        |
| 1                 | INSTALLATION, GENERAL NOTES & ELEVATIONS |
| 2                 | MULLION DETAILS (STANDARD CLIP)          |
| 3                 | MULLION DETAILS (OFFSET CLIP)            |
| 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)  |



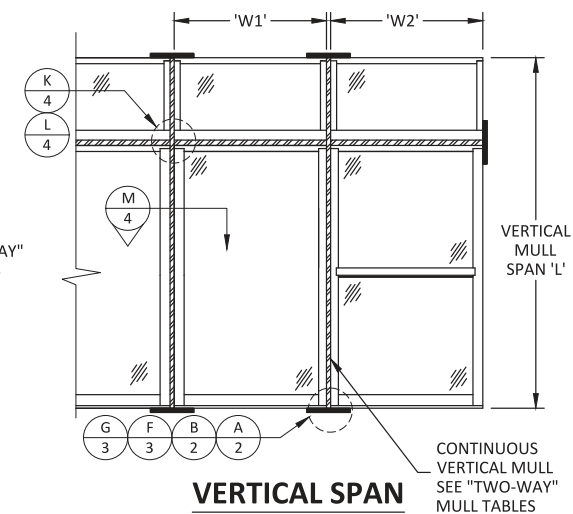
HORIZONTAL SPAN



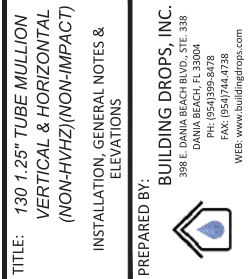
HORIZONTAL "T" MULL SPAN



VERTICAL SPAN

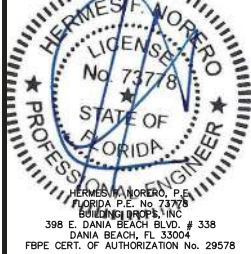


VERTICAL SPAN



| 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 |

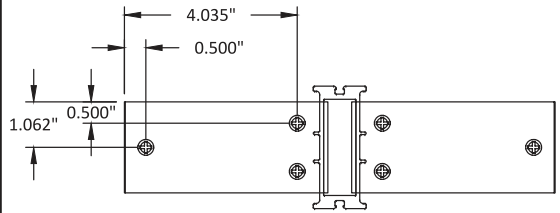
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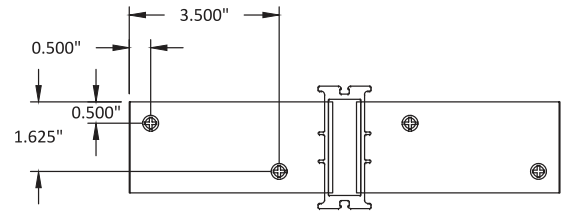
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| FL #:    | FL22377  |
| DATE:    | 10.03.17 |
| DWG. BY: | AR/AG    |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | ATR110   |
| SECTION: | 1        |

11/12/2020 5:19 PM

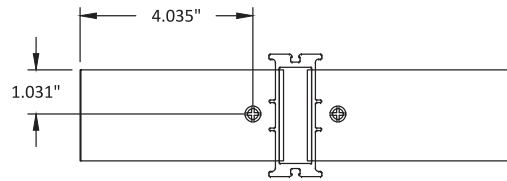
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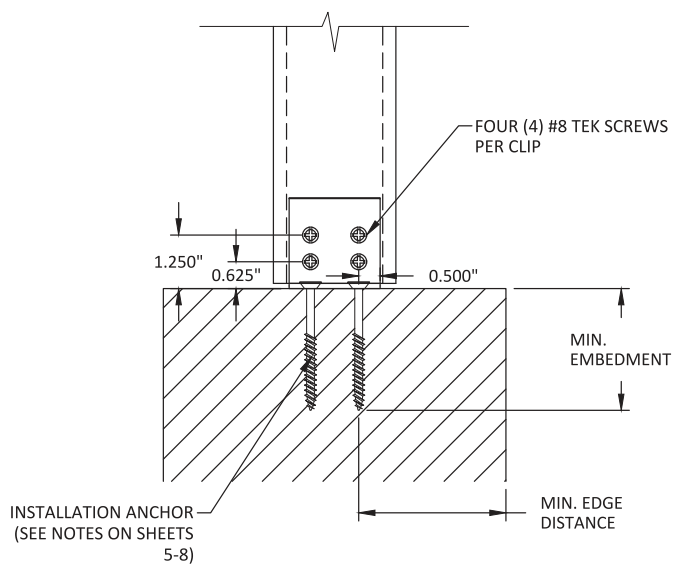
**C**  
**2** **TOP VIEW**  
END CLIP DETAIL WITH HOLE LAYOUT  
WOOD OR STEEL STUD INSTALLATION



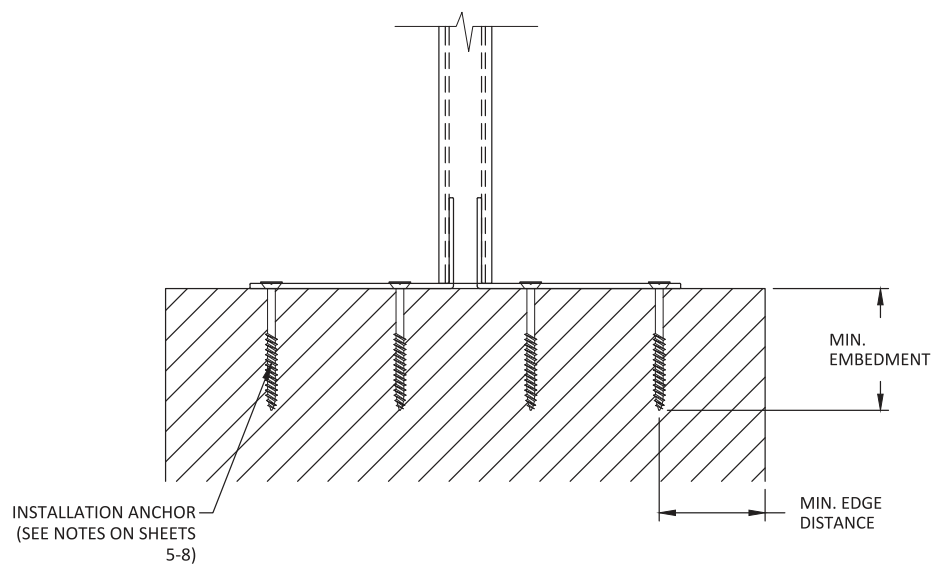
**D**  
**2** **TOP VIEW**  
END CLIP DETAIL WITH HOLE LAYOUT  
ITW TAPCONS INTO CONCRETE/MASONRY



**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     |
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| FBC 5th ED. CODE CHANGE | SM | 06.03.14 |
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HERMES F. NORERO  
LICENSED PROFESSIONAL ENGINEER  
No. 73778  
STATE OF FLORIDA  
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**

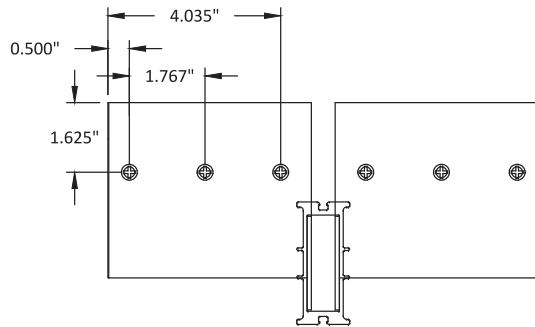
DWG. BY: **AR/AG** CHK. BY: **HFN**

SCALE: **NTS**

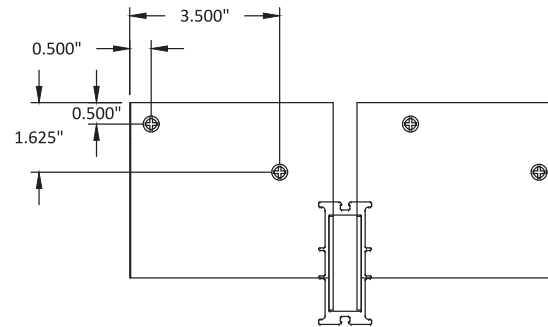
DWG. #: **ATR110**

SECTION:

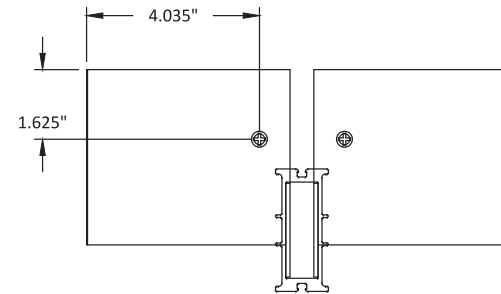




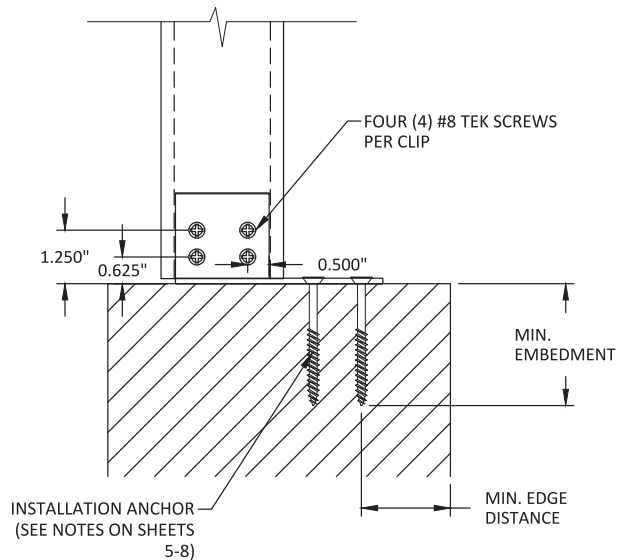
**H**  
**3** **TOP VIEW**  
END CLIP DETAIL WITH HOLE LAYOUT  
WOOD OR STEEL STUD INSTALLATION



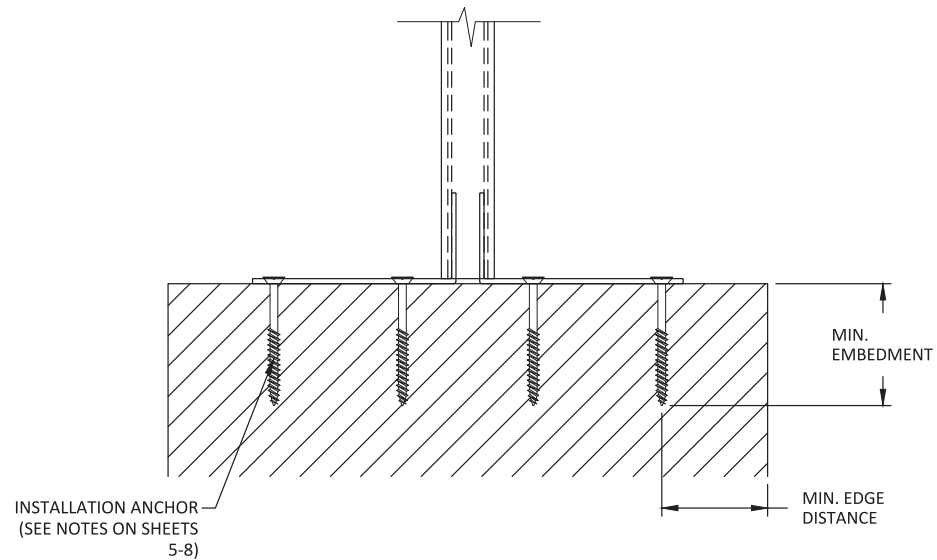
**I**  
**3** **TOP VIEW**  
END CLIP DETAIL WITH HOLE LAYOUT  
ITW TAPCONS INTO CONCRETE/MASONRY



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



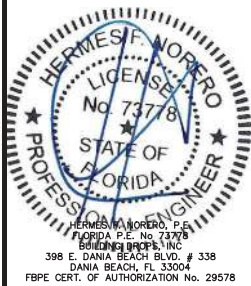
**F**  
**3** **SIDE VIEW**  
MULLION W/ END CLIPS (ONE OR TWO WAY)  
OFFSET CLIP



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

| 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 |

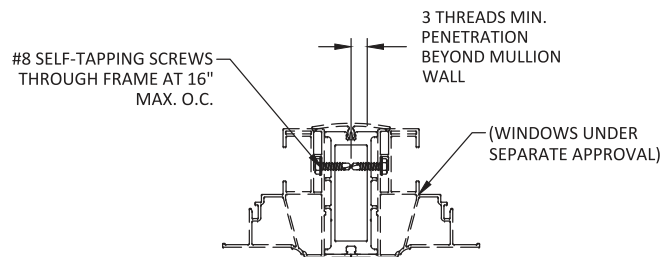
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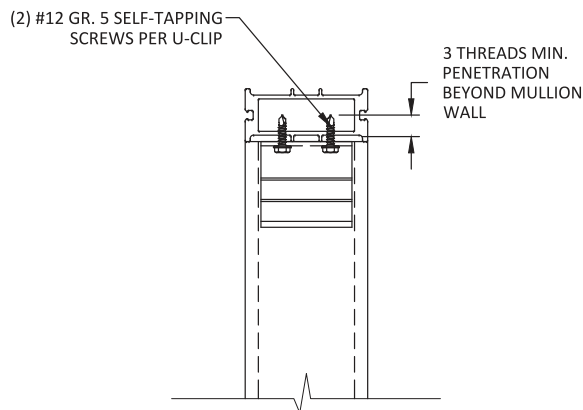
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| FL #:    | FL22377  |          |     |
| DATE:    | 10.03.17 |          |     |
| DWG. BY: | AR/AG    | CHK. BY: | HFN |
| SCALE:   | NTS      |          |     |
| DWG. #:  | ATR110   |          |     |
| SECTION: |          |          |     |

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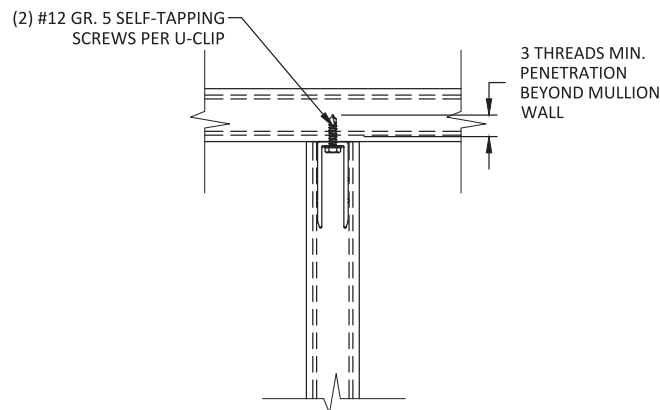
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**M**  
**4** **HORIZONTAL SECTION**  
FRAME CONNECTION TO MULLION  
TYPICAL



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



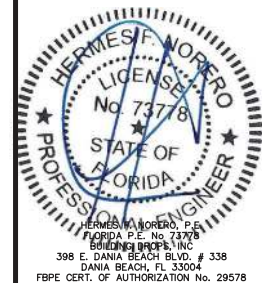
**L**  
**4** **FRONT VIEW**  
MULLION WITH U-CLIP (TWO WAY)  
TYPICAL

TITLE: 130 1.25" TUBE MULLION  
VERTICAL & HORIZONTAL  
(NON-HVHZ)(NON-IMPACT)  
TWO-WAY DETAILS &  
FRAME DETAIL

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

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| FBC 5th ED. CODE CHANGE | SM | 06.03.14 |
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|----------|-----------------|
| FL #:    | <b>FL22377</b>  |
| DATE:    | <b>10.03.17</b> |
| DWG. BY: | <b>AR/AG</b>    |
| CHK. BY: | <b>HFN</b>      |
| SCALE:   | <b>NTS</b>      |
| DWG. #:  | <b>ATR110</b>   |
| SECTION: | <b>4</b>        |

## 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.



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

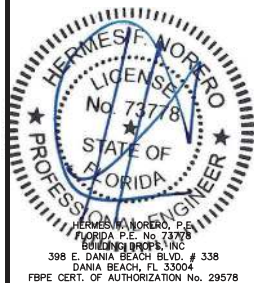
TITLE: 130 1.25" TUBE MULLION  
VERTICAL & HORIZONTAL  
(NON-HVHZ)/(NON-IMPACT)  
ONE-WAY MULL TABLES  
(TAPCONS ONLY)

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
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| REMARKS                 | BY | DATE     |
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| 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:

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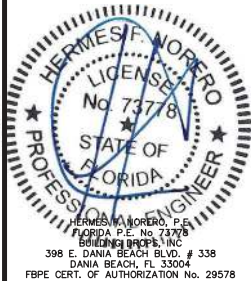
TITLE: 130 1.25" TUBE MULLION  
VERTICAL & HORIZONTAL  
(NON-HVHZ)/(NON-IMPACT)  
ONE-WAY MULL TABLES  
(ALL OTHER ANCHORS)

PREPARED BY: BUILDING DROPS, INC.  
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| FBC 5th ED. CODE CHANGE | SM | 06.03.14 |
| ADDITIONAL SIZING       | LS | 04.14.16 |
| FBC 2017 CODE CHANGE    | AG | 10.03.17 |
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| FL #:    | FL22377  |
| DATE:    | 10.03.17 |
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| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | ATR110   |
| SECTION: |          |

6

OF 8



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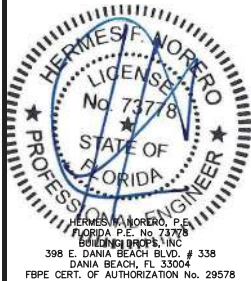
TITLE: 130 1.25" TUBE MULLION  
VERTICAL & HORIZONTAL  
(NON-HVHZ)/(NON-IMPACT)  
TWO-WAY MULL TABLES  
(TAPCONS ONLY)

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:

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 | 150.0 | 143.8 | 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  |
| 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 ALL OTHER ANCHOR OPTIONS. SEE DETAILS C/2, E/2, H/3, J/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 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.
- 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.



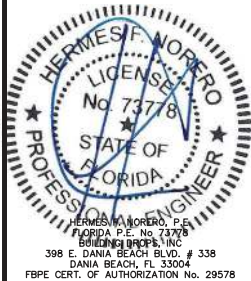
TITLE: 130 1.25" TUBE MULLION VERTICAL & HORIZONTAL (NON-HVHZ)(NON-IMPACT) TWO-WAY MULL TABLES (ALL OTHER ANCHORS)

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



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| FBC 5th ED. CODE CHANGE | SM | 06.03.14 |
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SCALE: **NTS**

DWG. #: **ATR110**

SECTION:

