

INSTALLATION NOTES:

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

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

3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.

4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.

5. FOR INSTALLATION INTO WOOD FRAMING USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.

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

7. FOR INSTALLATION THROUGH METAL STUD USE 1/4 INCH DIAMETER SELF-DRILLING SCREWS, GR. 5 OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.

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

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

FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).

CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

10.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.

11.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.

12.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.

MASONRY - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

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

ALUMINUM - MINIMUM 0.067 INCH THICK, 6063-T5 ALUMINUM.

13.INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEMS.

YKK AP America Inc.

YOW 225 NON-THERMAL ALUMINUM

PROJECT OUT & PROJECT IN WINDOWS

(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 HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

AAMA/WDMA/CSA 101/I.S.2/A440-22

2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD 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.

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

6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T5

7. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.

8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 11 FOR GLAZING DETAILS.

9. GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS PER CHAPTER 24 OF CURRENT FBC.

10.GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

11.GLAZING GASKETS SHALL MEET THE MINIMUM PERFORMANCE REQUIREMENTS AS APPLICABLE IN CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

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| DESIGN PRESSURE TABLE |                      |               |
|-----------------------|----------------------|---------------|
| TYP. OVERALL SIZE     | MAX. DESIGN PRESSURE | IMPACT RATING |
| SEE SHEET 4           | +65/-65 PSF          | NON - IMPACT  |
| **SEE SHEET 5         | +45/-45 PSF          | NON - IMPACT  |

\*\* MEETS THE REQUIREMENTS OF AAMA 513 FORCES AND MOTIONS.

- NOTES:
1. SEE SHEETS 4 AND 5 FOR ALLOWABLE VENT SIZES AND HARDWARE SCHEDULE AND FURTHER DESIGN PRESSURE LIMITATIONS PER SIZE AND HARDWARE TYPE

2. SEE SHEET 11 FOR GLAZING DETAILS



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TITLE:  
YOW 225 NON-THERMAL ALUMINUM  
PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)

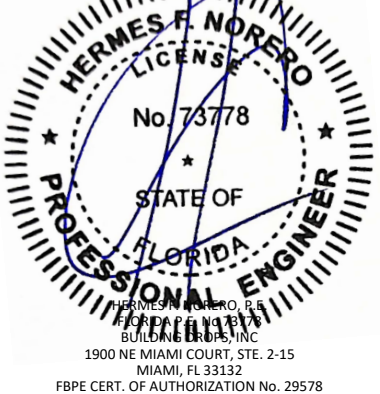
INSTALLATION & GENERAL NOTES

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BUILDING DROPS

| REMARKS                                                                                                                                                                                                                                                                                                     | BY | DATE     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------|
| 7TH FBC CODE CHANGE                                                                                                                                                                                                                                                                                         | MS | 04.16.20 |
| 8TH FBC CODE CHANGE                                                                                                                                                                                                                                                                                         | SH | 06.01.23 |
| MISC. UPDATE                                                                                                                                                                                                                                                                                                | SH | 02.26.24 |
| 9TH FBC CODE CHANGE                                                                                                                                                                                                                                                                                         | SH | 07.31.26 |
| THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT. |    |          |

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**FL16313**

DATE:  
**8.29.17**

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**FM**

CHK. BY:  
**HFN**

SCALE:  
**NTS**

DWG. #:  
**YKK243**

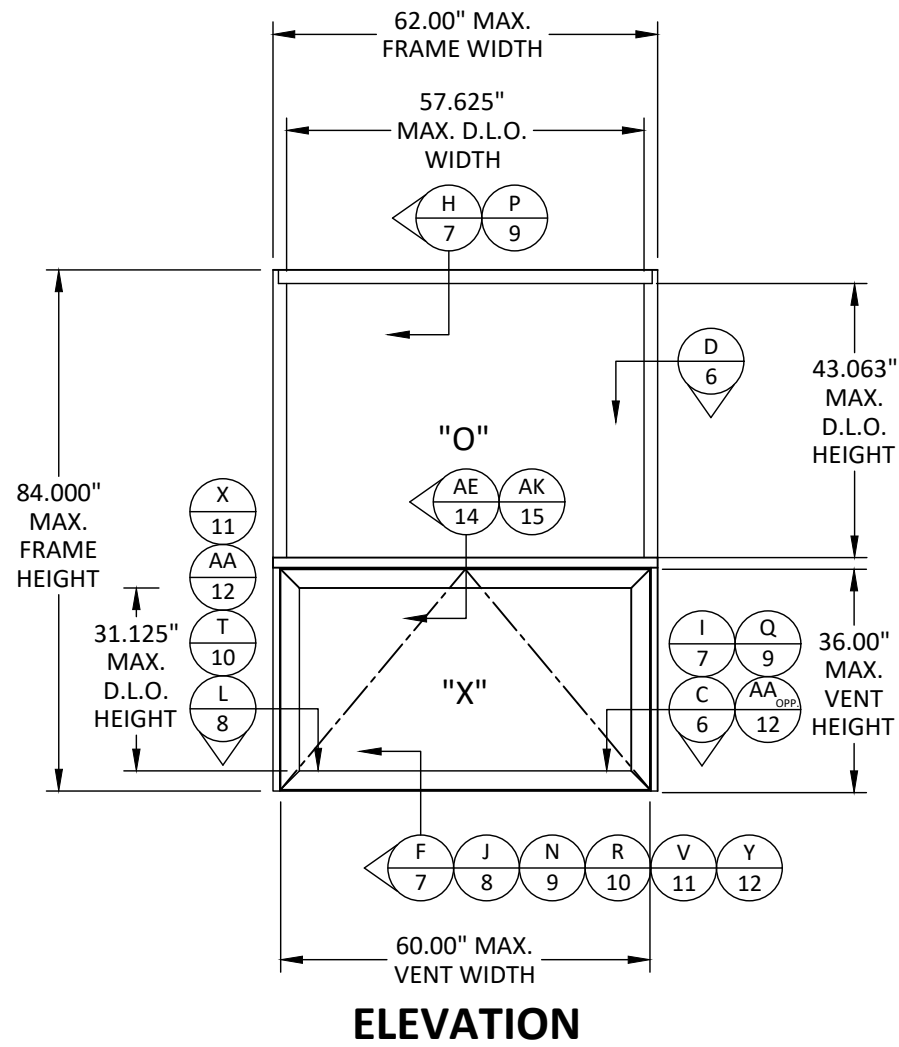
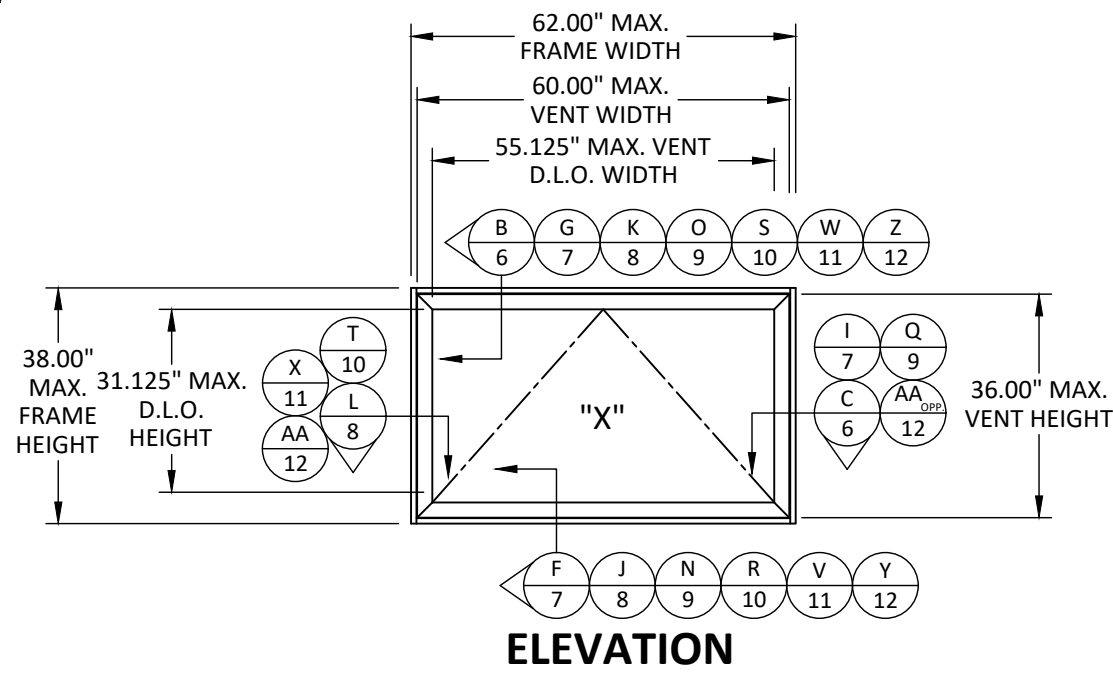
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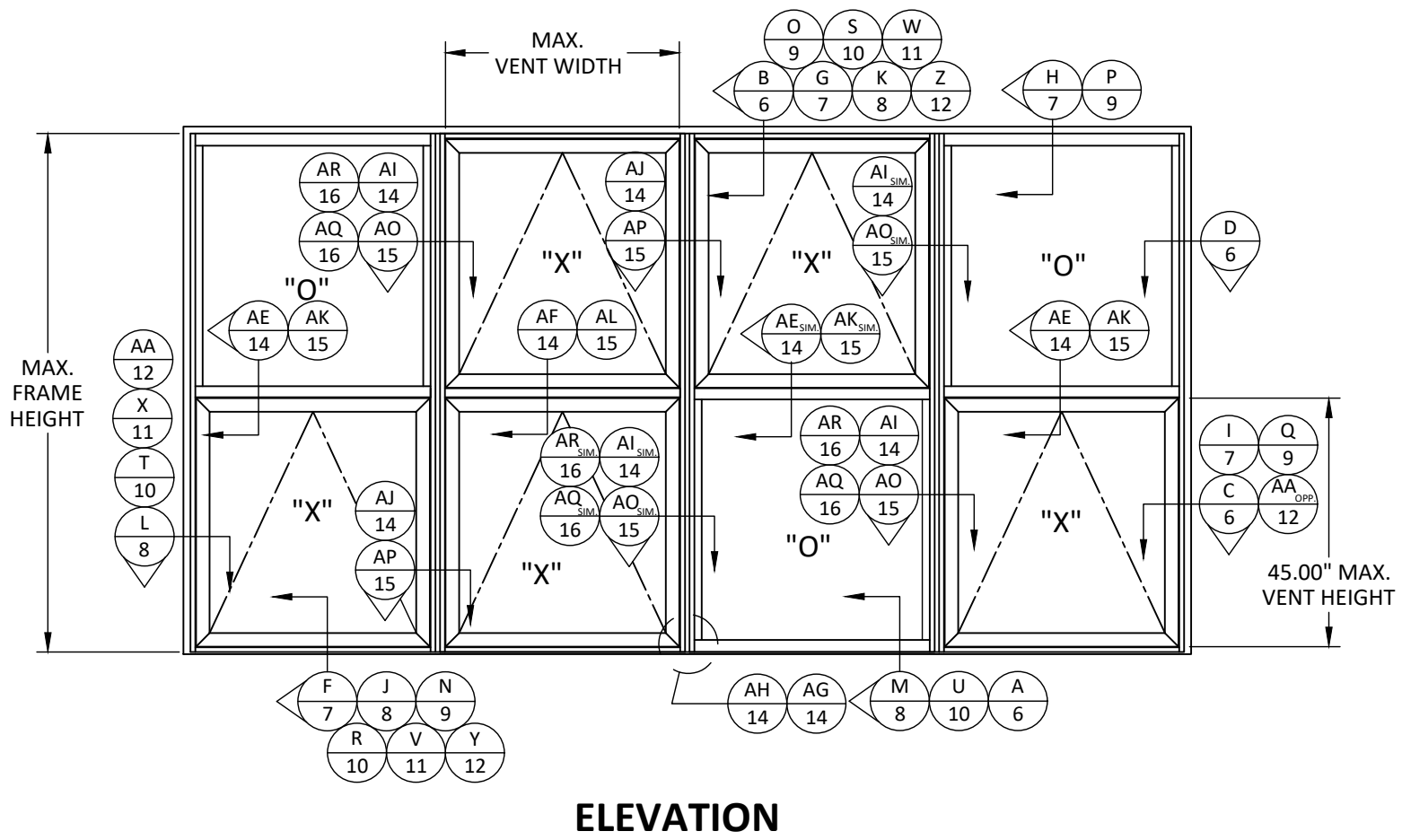
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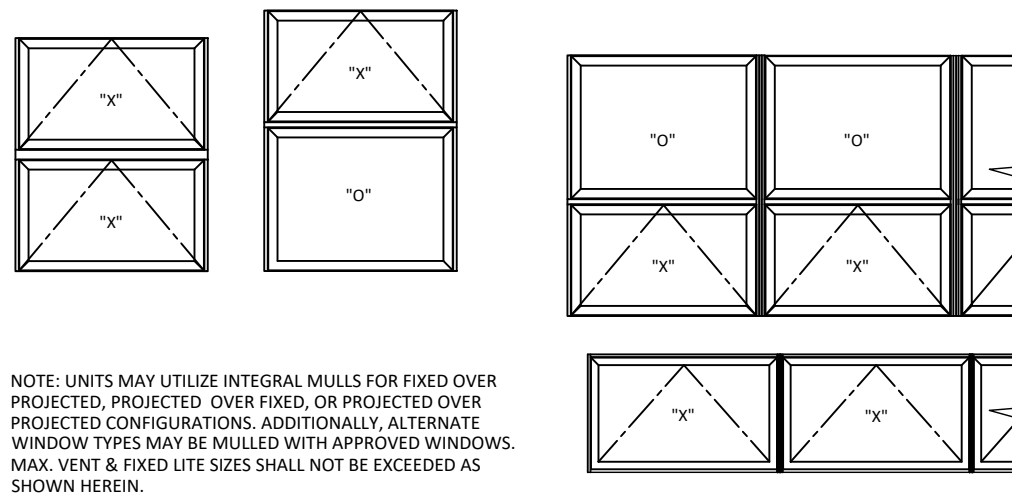


NOTE: SEE TABLES IN SHEET 4 & 5 FOR MAX. VENT SIZE.

- NOTE:
- ELEVATIONS SHOWN INCLUDE PROJECT IN AND PROJECT OUT WINDOWS . DETAILS SHOWN ARE REPRESENTATIVE OF BOTH APPLICATIONS
  - MAX. DIMENSIONS SHOWN MAY EXCLUDE RECEPTOR DIMENSIONS. SEE DETAILS SHEET 6 FOR O.A. DIMENSION LOCATIONS.



## QUALIFIED CONFIGURATIONS



NOTE: UNITS MAY BE MULLED SIDE BY SIDE IN COMBINATIONS OF PROJECTED/FIXED, PROJECTED /PROJECT OUT, AND/OR OTHER APPROVED WINDOW TYPES (SEE APPROVED INSTALLATION INSTRUCTIONS). MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL. FIXED WINDOWS AND OTHER ALTERNATE WINDOW TYPES UNDER SEPARATE APPROVAL.



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TITLE: YOW 225 NON-THERMAL ALUMINUM PROJECT OUT & PROJECT IN WINDOWS (NON-HVHZ) (NON-IMPACT)

ELEVATIONS & QUALIFIED CONFIGURATIONS

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DWG. #: YKK243

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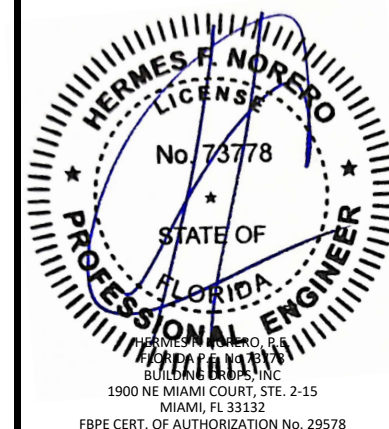
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| DESIGN<br>PRESSURE<br>(+/- PSF) | MIN. QTY<br>REQUIRED AT<br>EA. END OF<br>STACK MULL* | MIN. QTY<br>REQUIRED AT<br>SILL OF STACK<br>MULL FOR<br>RECEPTOR<br>INSTALLATION* |
|---------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------|
| 40                              | 2                                                    | 4                                                                                 |
| 65                              | 4                                                    | 6                                                                                 |

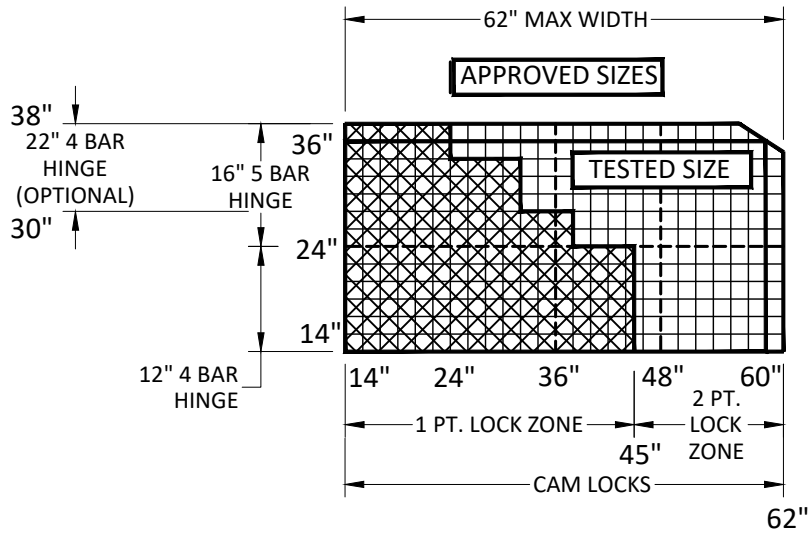
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OF 19

APPROVED VENT SIZES  
PROJECT IN (STANDARD HARDWARE)



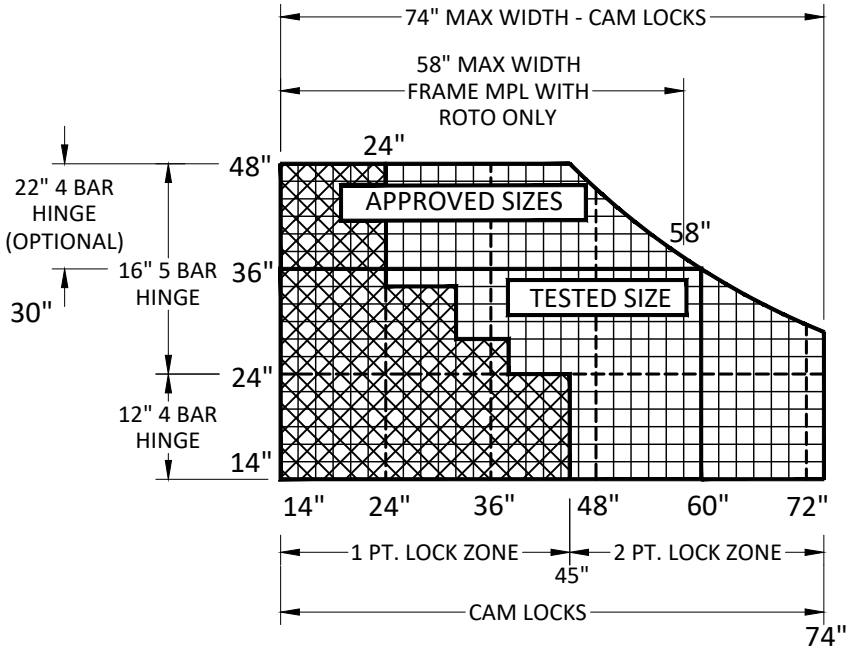
HARDWARE SCHEDULE  
PROJECT IN - DP +/-65 PSF

| HARDWARE TYPE | OPTION# | DESCRIPTION                                                                                                                                                                         |
|---------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOCK OPTIONS  | 1       | BRONZECRAFT CAM HANDLES (E1-1503/1504) AT LOCK STILE OF VENT, 8" FROM EA. END SECURED WITH (2) #10 X 1/2" FH SMS. BRONZECRAFT KEEPERS (E1-1707) SECURED WITH (2) #10 X 1/2" FH SMS. |
| HINGE OPTIONS | 1       | 12" 4-BAR HINGES (4K-14207), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS. SEE NOTE BELOW FOR SNUBBER REQUIREMENTS.    |
|               | 2       | 16" 5-BAR HINGES (5K-15284), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS. SEE NOTE BELOW FOR SNUBBER REQUIREMENTS.    |
|               | 3       | 22" 4-BAR HINGES (4K-14209), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS.                                             |

NOTES:

- VENT SIZES SHOWN IN DIAGRAM ABOVE ARE APPROVED FOR USE AT +65 / -65 PSF.
- MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL.
- VENT SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
- FRAME SIZE MAY NOT EXCEED OVERALL SQUARE FOOTAGE OF TESTED SIZE.
- 1 POINT LOCK ZONE REPRESENTS SIZES WHICH MAY USE ONLY 1 LOCKING POINT INSTEAD OF 2 AS-TESTED. SEE BELOW FOR LOCKING HARDWARE REQUIREMENTS.
- GLASS TYPE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM E1300.
- UNITS SHALL FOLLOW HARDWARE REQUIREMENTS SHOWN IN DIAGRAM.

APPROVED VENT SIZES  
PROJECT OUT (STANDARD HARDWARE)



HARDWARE SCHEDULE  
PROJECT OUT - DP +/-65 PSF

| HARDWARE TYPE | OPTION# | DESCRIPTION                                                                                                                                                                                                       |
|---------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOCK OPTIONS  | 1       | BRONZECRAFT CAM HANDLES (E1-1541/1542) BRONZECRAFT KEEPERS (E1-1519) SECURED WITH (2) #10 X 1/2" FH SMS                                                                                                           |
|               | 2       | MULTI-POINT LOCK ASSEMBLY (E1-1505 OR E1-1966 OR E1-1994, E1-1954, E1-1955, E1-1952, E9-4593). LOCK KEEPERS (E1-1954, E1-1955) SECURED WITH (2) #10 X 1/2" FH SMS. MAXIMUM VENT WIDTH FOR SYSTEM = 58". ROTO ONLY |
| HINGE OPTIONS | 1       | 12" 4-BAR HINGES (4K-14207), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS.                                                                           |
|               | 2       | 16" 5-BAR HINGES (5K-15284), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS.                                                                           |
|               | 3       | 22" 4-BAR HINGES (4K-14209), TWO PER VENT. SECURED WITH (3) #10 X 3/8" PH SMS. HINGE BASE (E1-1782) SECURED WITH (3) #10 X 3/4" FH SMS.                                                                           |

HINGE LIMITS

- 12" 4 BAR - MAX. 20° OPENING (W/ LIMIT) 90 LB. MAX. VENT
- 16" 5 BAR - MAX. 30° OPENING (W/O LIMIT) 130 LB. MAX. VENT
- 22" 4 BAR - MAX. 45° OPENING (W/ LIMIT) 140 LB. MAX. VENT

FRAME HEIGHT = VENT HEIGHT + 2"  
FRAME WIDTH = VENT WIDTH + 2"

GLASS WIDTH = VENT WIDTH - 3 7/8"  
GLASS HEIGHT = VENT HEIGHT - 3 7/8"

NOTE: REFER TO PAGE 5 FOR ROTARY OPERATOR SCHEDULE



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PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)

APPROVED VENT SIZES &  
HARDWARE SCHEDULE

PREPARED BY:

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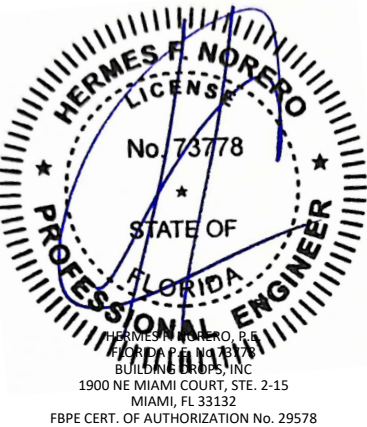
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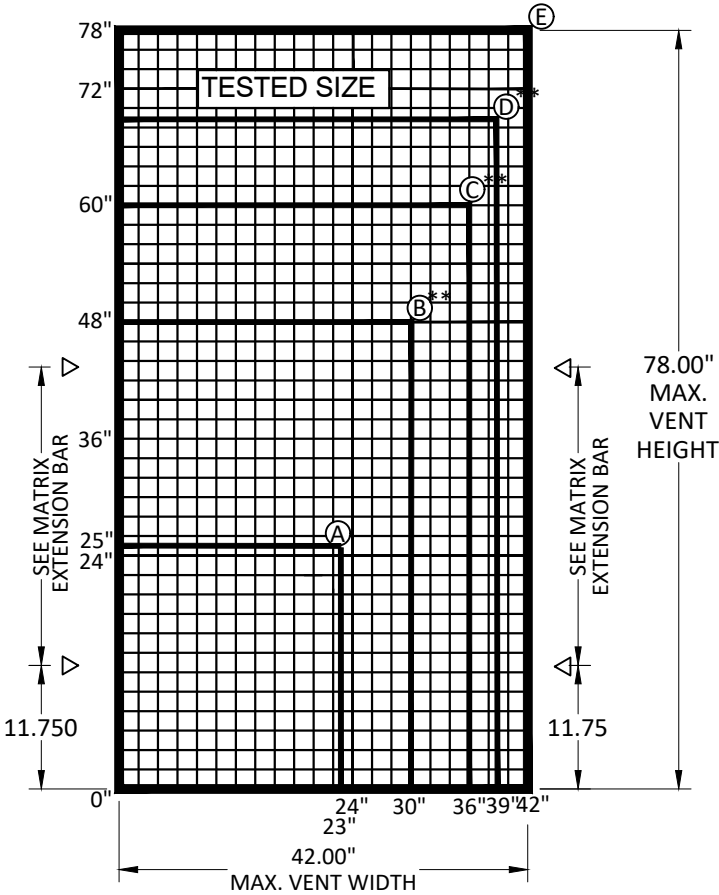
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|          |         |
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| DATE:    | 8.29.17 |
| DWG. BY: | FM      |
| CHK. BY: | HFN     |
| SCALE:   | NTS     |
| DWG. #:  | YKK243  |
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| OF 19    |         |

ACCESSIBLE WINDOW SYSTEM - (AAMA 513-14)  
VENT SIZES SHOWN

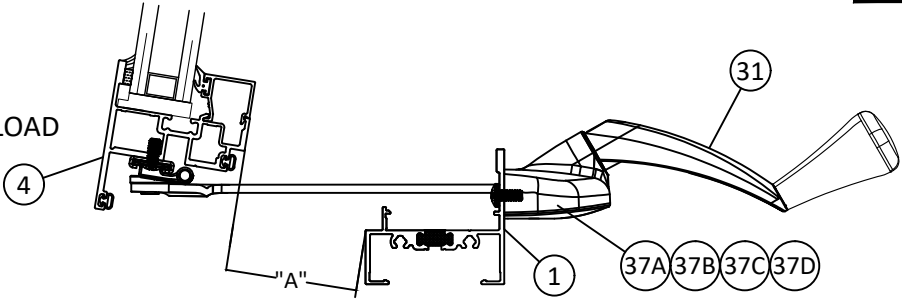
APPROVED VENT SIZES  
PROJECT OUT WINDOW (ACCESSIBLE HARDWARE)



▷-LOCK POINT

APPROVED VENT SIZES

ELEVATION  
MAX. VENT SIZES BASED ON DESIGN LOAD  
RESTRICTIONS



OUTSWING HARDWARE SCHEDULE

| HARDWARE TYPE   | OPTION# | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOCK            | 1       | (SEE MATRIX AT RIGHT) MULTI-POINT BASE LOCK BAR (E1-2001), LOCK EXTENSION BAR (E1-2002), SECURED TO EACH FRAME JAMB WITH (2) #10 X 1/2" PFH SMS, PER LOCK POINT. KEEPER (4K-18584) LOCATED AT 11 3/4" FROM BOTTOM OF STILE AND MAX. OF 22.3" THERE AFTER, SECURED WITH (2) #8 X 7/16" PH SMS. ACTUATED BY E1-1966 4" STANDARD HANDLE OR E1-1994 8" EXTENDED HANDLE SECURED TO FRAME JAMB WITH (2) #10 X 3/4" POH SMS |
| HINGE           | 1       | 4-BAR HINGE (SEE MATRIX AT RIGHT) SECURED TO BASE WITH (3) #10-24 X 3/8" PL PH SMS AND TO VENT WITH (3) #10-24 X 3/8" PL FH SMS.                                                                                                                                                                                                                                                                                     |
| ROTARY OPERATOR | 1       | BASED ON THE VENT WIDTH. DUAL ARM OPERATOR IN SCHEDULE IS MOUNTED TO THE FRAME SILL, SECURED WITH (2) #10 X 3/8" PPH SMS                                                                                                                                                                                                                                                                                             |

ROTARY OPERATOR SCHEDULE

| REQUIRED OPERATOR (1 PER VENT)                               | VENT WIDTH (W) | MAX. VENT OPENING "A" |
|--------------------------------------------------------------|----------------|-----------------------|
| *5.5" DUAL ARM E1-1991, WITH HANDLE CRANK E1-1983 OR E1-1932 | 23" ≤ W < 26"  | 1 3/16"               |
| *7" DUAL ARM E1-2012, WITH HANDLE CRANK E1-1983 OR E1-1932   | 26" ≤ W < 30"  | 2 1/16"               |
| 9" DUAL ARM E1-2013, WITH HANDLE CRANK E1-1983 OR E1-1932    | 30" ≤ W < 34"  | 4 1/16"               |
| 11" DUAL ARM E1-1992, WITH HANDLE CRANK E1-1983 OR E1-1932   | ≥ 34" W        | 6 1/16"               |

\* E1-1991 & E1-2012 OPERATORS CANNOT BE USED IF LIMIT DEVICES ARE USED

FMPL SYSTEM - ACCESSIBLE WINDOW - HARDWARE MATRIX

| FRAME MPL SYSTEM                                   |          |                      |                  |               |                           |                                |
|----------------------------------------------------|----------|----------------------|------------------|---------------|---------------------------|--------------------------------|
| YOW 225 - PROJECT OUT WITH E1-1995 10" 4 BAR HINGE |          |                      |                  |               |                           |                                |
| MINIMUM VENT HEIGHT DIMENSION                      | BASE BAR | BASE BAR PART NUMBER | MAX. VENT WEIGHT | EXTENSION BAR | EXTENSION BAR PART NUMBER | NUMBER OF LOCK POINTS PER JAMB |
| 25" - 26.99"                                       | 5 1/4"   | E1-2001-000525       | 64# [29.0Kg]     | NONE          |                           | 1                              |
| FRAME MPL SYSTEM                                   |          |                      |                  |               |                           |                                |
| YOW 225 - PROJECT OUT WITH E1-1996 12" 4 BAR HINGE |          |                      |                  |               |                           |                                |
| MINIMUM VENT HEIGHT DIMENSION                      | BASE BAR | BASE BAR PART NUMBER | MAX. VENT WEIGHT | EXTENSION BAR | EXTENSION BAR PART NUMBER | NUMBER OF LOCK POINTS PER JAMB |
| 27" - 30.99"                                       | 5 1/4"   | E1-2001-000525       | 75# [34.0 Kg]    | NONE          |                           | 1                              |
| FRAME MPL SYSTEM                                   |          |                      |                  |               |                           |                                |
| YOW 225 - PROJECT OUT WITH E1-1997 16" 4 BAR HINGE |          |                      |                  |               |                           |                                |
| MINIMUM VENT HEIGHT DIMENSION                      | BASE BAR | BASE BAR PART NUMBER | MAX. VENT WEIGHT | EXTENSION BAR | EXTENSION BAR PART NUMBER | NUMBER OF LOCK POINTS PER JAMB |
| 31" - 42.99"                                       | 5 1/4"   | E1-2001-000525       | 94# [42.6 Kg]    | NONE          |                           | 1                              |
| 43" - 56.99"                                       | 5 1/4"   | E1-2001-000525       | 94# [42.6 Kg]    | 12"           | E1-1955-0100              | 2                              |
| FRAME MPL SYSTEM                                   |          |                      |                  |               |                           |                                |
| YOW 225 - PROJECT OUT WITH E1-1998 20" 4 BAR HINGE |          |                      |                  |               |                           |                                |
| MINIMUM VENT HEIGHT DIMENSION                      | BASE BAR | BASE BAR PART NUMBER | MAX. VENT WEIGHT | EXTENSION BAR | EXTENSION BAR PART NUMBER | NUMBER OF LOCK POINTS PER JAMB |
| 57" - 63.99"                                       | 5 1/4"   | E1-2001-000525       | 120# [54.4Kg]    | 22"           | E1-2002-0110              | 2                              |
| FRAME MPL SYSTEM                                   |          |                      |                  |               |                           |                                |
| YOW 225 - PROJECT OUT WITH E1-1999 24" 4 BAR HINGE |          |                      |                  |               |                           |                                |
| MINIMUM VENT HEIGHT DIMENSION                      | BASE BAR | BASE BAR PART NUMBER | MAX. VENT WEIGHT | EXTENSION BAR | EXTENSION BAR PART NUMBER | NUMBER OF LOCK POINTS PER JAMB |
| 64" - 78"                                          | 5 1/4"   | E1-2001-000525       | 180# [68.0 Kg]   | 22"           | E1-2002-0110              | 2                              |

| APPROVED VENT SIZES WITH ROTARY OPERATOR |                                                    |                  |                           |                                              |
|------------------------------------------|----------------------------------------------------|------------------|---------------------------|----------------------------------------------|
|                                          | VENT SIZE                                          | VENT SQUARE FEET | ALLOWABLE DESIGN PRESSURE | INSULATED VENT WEIGHT @ 7.2 LBS. PER SQ. FT. |
| A                                        | MINIMUM SIZE: 23" [508.0] X 25" [635.0]            | 4.0              | 65.0                      | 28.8 LBS.                                    |
| B**                                      | 30" [762.0] X 48" [1219.2]                         | 10.0             | 65.0                      | 72.0 LBS.                                    |
| C**                                      | 36" [914.4] X 60" [1524.0]                         | 15.0             | 65.0                      | 108.0 LBS.                                   |
| D**                                      | 39" [990.6] X 69" [1752.6]                         | 18.7             | 55.0                      | 134.6 LBS.                                   |
| E                                        | MAXIMUM & TESTED SIZE: 42" [1066.8] X 78" [1981.2] | 22.7             | 45.0                      | 163.4 LBS.                                   |

\*\* NOT APPROVED FOR ACCESSIBLE WINDOWS

LOCK-POINT SCHEDULE

| NUMBER OF REQUIRED LOCK ENGAGEMENTS PER STILE (KEEPER K-18584) | VENT HEIGHT (H) |
|----------------------------------------------------------------|-----------------|
| 1                                                              | ≥ 25"-42.99"H   |
| 2                                                              | ≥ 43"-78"H      |



YKK AP America Inc.  
101 MARIETTA STREET NW, SUITE 2100  
ATLANTA, GA 30303  
PH: (478)277-1955 FAX: (678)838-6001

TITLE:  
YOW 225 NON-THERMAL ALUMINUM  
PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)

APPROVED VENT SIZES &  
HARDWARE SCHEDULE

PREPARED BY:

BUILDING DROPS, INC.

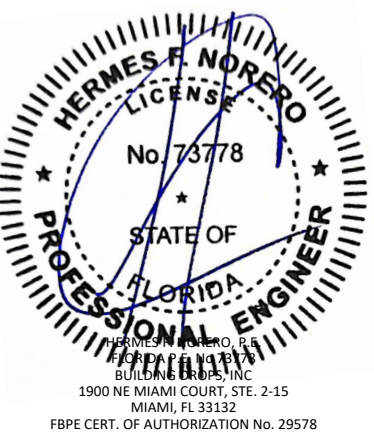
1900 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132

PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



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| 7TH FBC CODE CHANGE | MS | 04.16.20 |
| 8TH FBC CODE CHANGE | SH | 06.01.23 |
| MISC. UPDATE        | SH | 02.26.24 |
| 9TH FBC CODE CHANGE | SH | 07.31.26 |

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FL #:  
**FL16313**

DATE:  
**8.29.17**

DWG. BY:  
**FM**

CHK. BY:  
**HFN**

SCALE:  
**NTS**

DWG. #:  
**YKK243**

SHEET:  
**5**

REV.  
**E**

OF 19



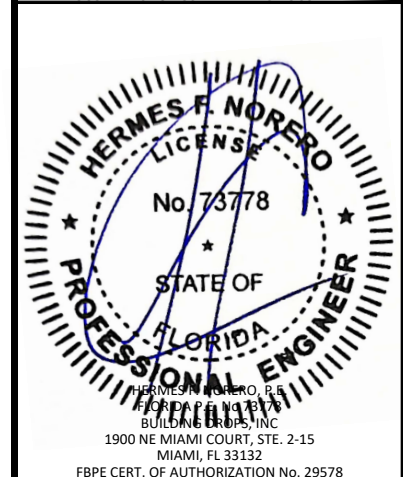
NOTE: UNITS MAY BE INTERIOR OR EXTERIOR SET INSTALLATIONS. ITEMS #96 & 97 NOT REQUIRED FOR INTERIOR SET INSTALLATIONS.



FAX: (954) 44.4/38  
WEB: [www.buildingdrops.com](http://www.buildingdrops.com)



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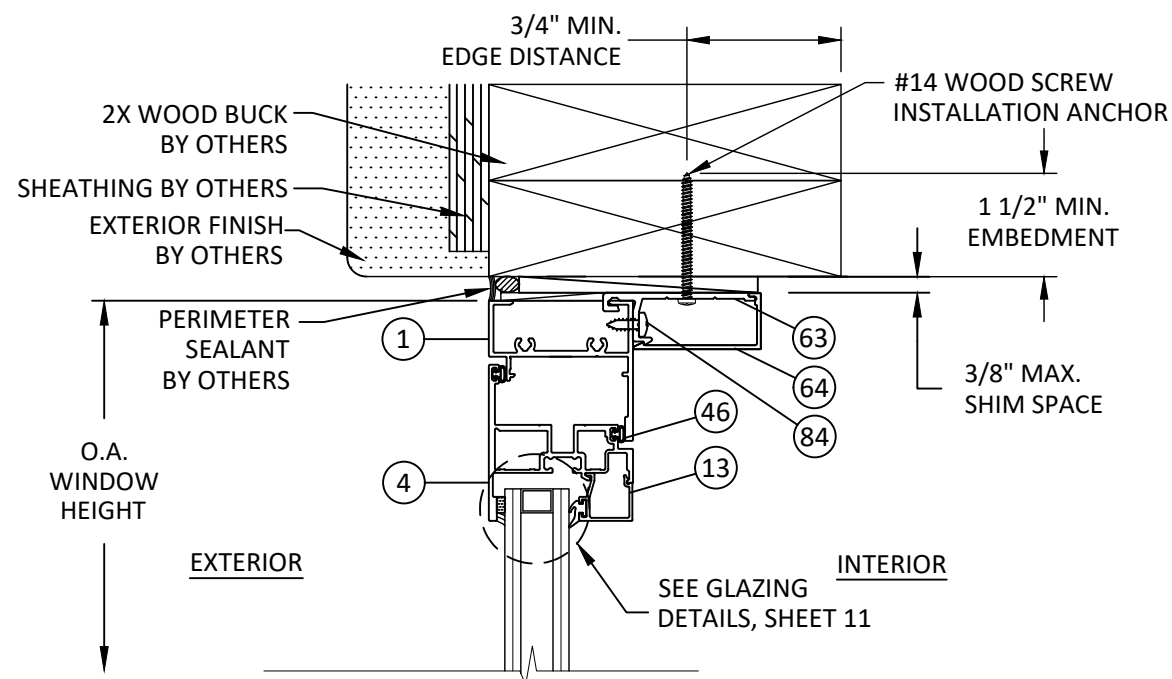
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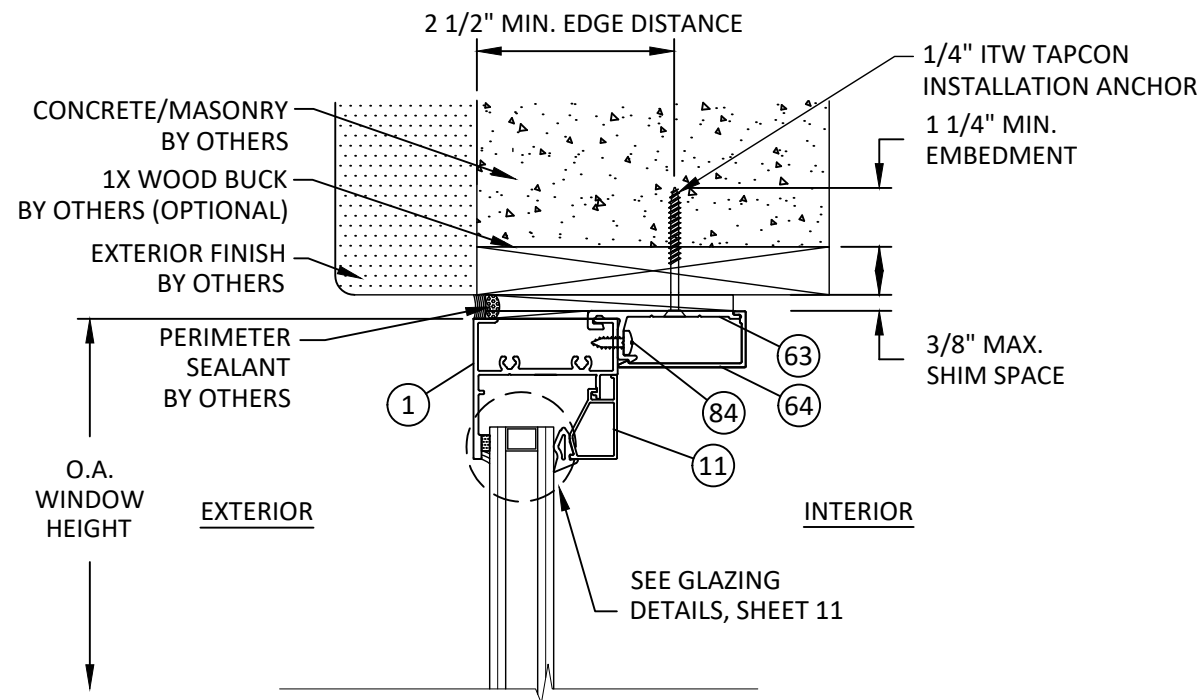
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**G**  
**7**

## VERTICAL SECTION

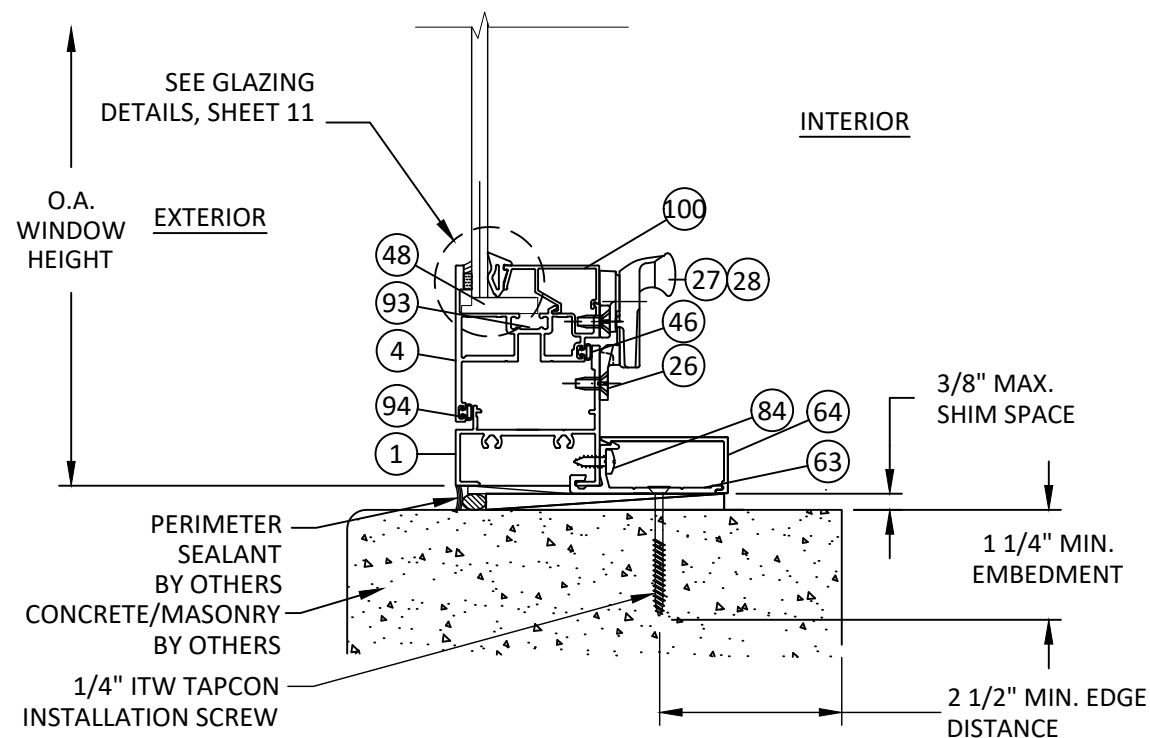
VENT HEAD - 2X WOOD FRAME  
CLIP ANCHOR - TYP. (PROJECT OUT)



**H**  
**7**

## VERTICAL SECTION

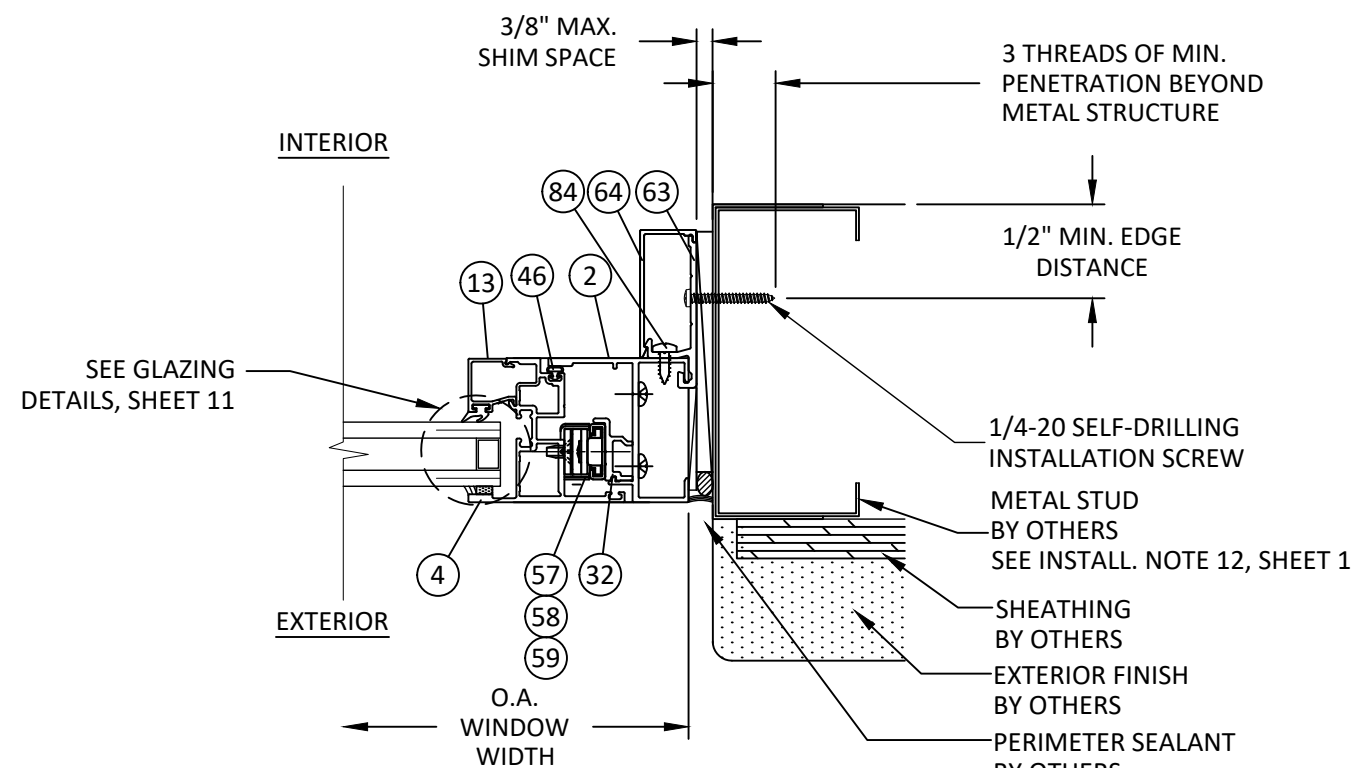
FIXED HEAD - 1X/CONCRETE/MASONRY  
CLIP ANCHOR - TYP.



**F**  
**7**

## VERTICAL SECTION

VENT SILL - CONCRETE/MASONRY  
CLIP ANCHOR - TYP. (PROJECT OUT)



**I**  
**7**

## HORIZONTAL SECTION

VENT JAMB - METAL STUD FRAME  
CLIP ANCHOR - TYP. (PROJECT OUT)



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TITLE:  
YOW 225 NON-THERMAL ALUMINUM  
PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)  
CLIP INSTALLATION DETAILS

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PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

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| MISC. UPDATE        | SH | 02.26.24 |
| 9TH FBC CODE CHANGE | SH | 07.31.26 |

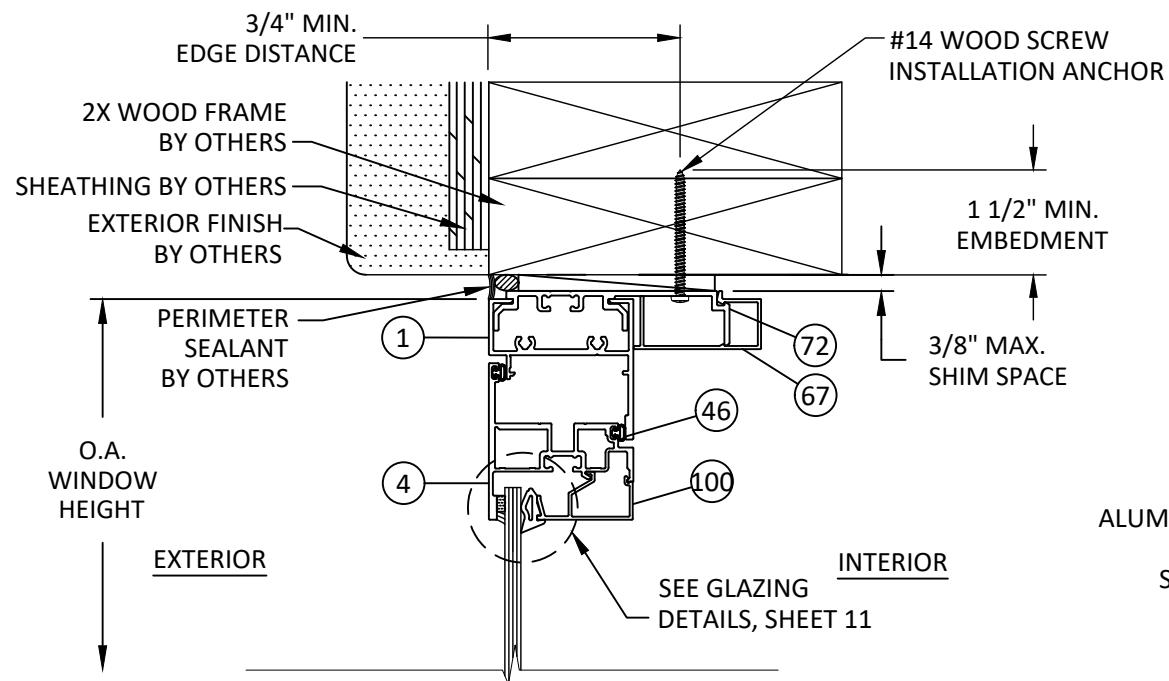
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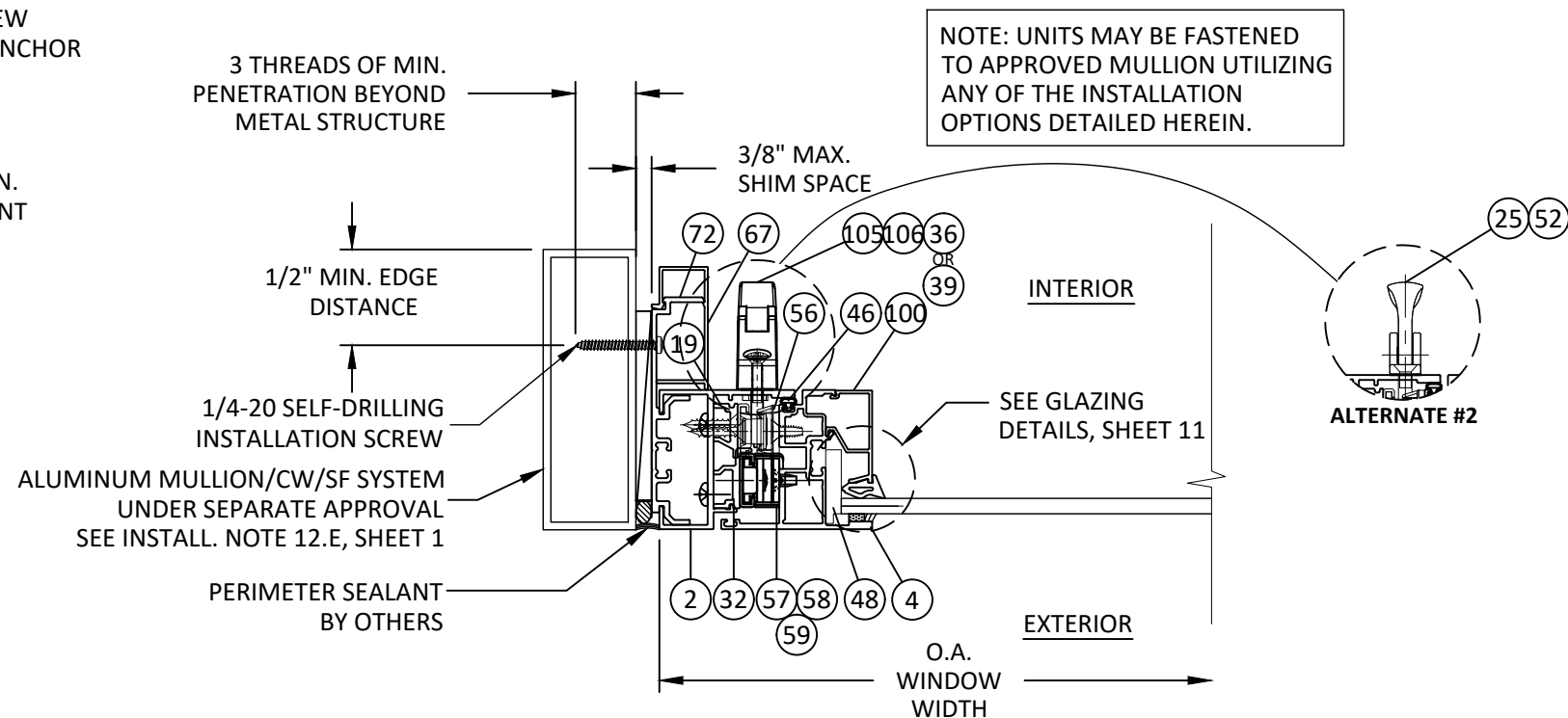
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| FL #:    | FL16313 |
| DATE:    | 8.29.17 |
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| CHK. BY: | HFN     |
| SCALE:   | NTS     |
| DWG. #:  | YKK243  |
| SHEET:   | 7       |

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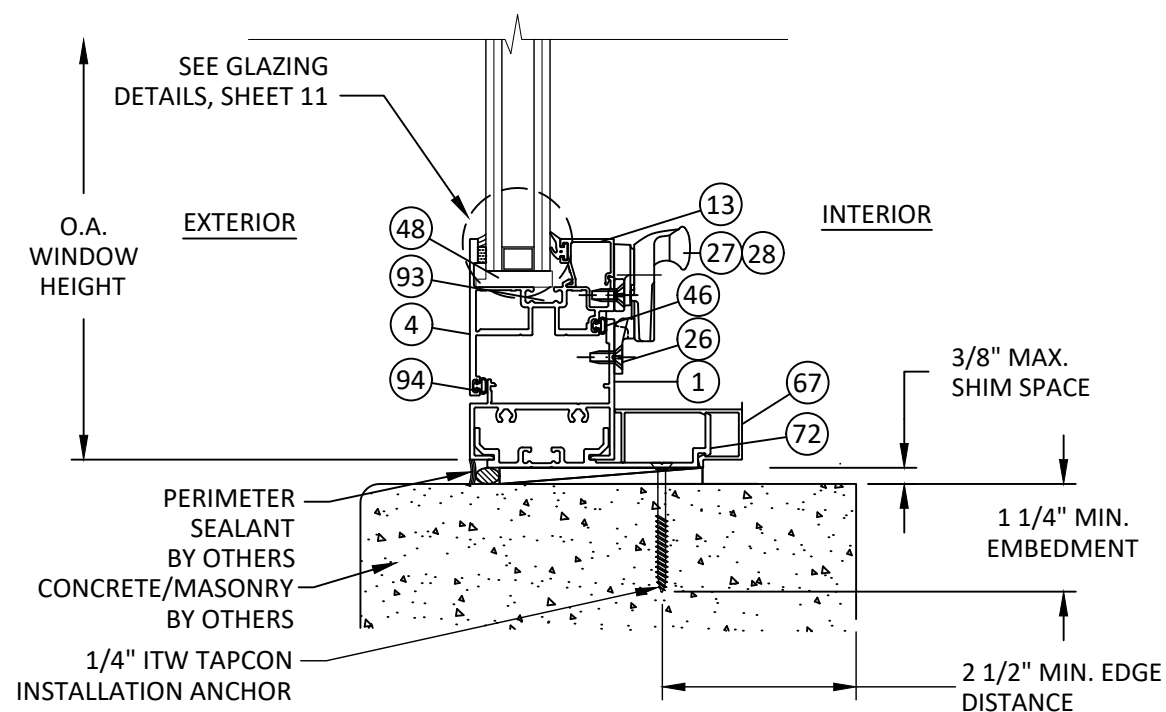
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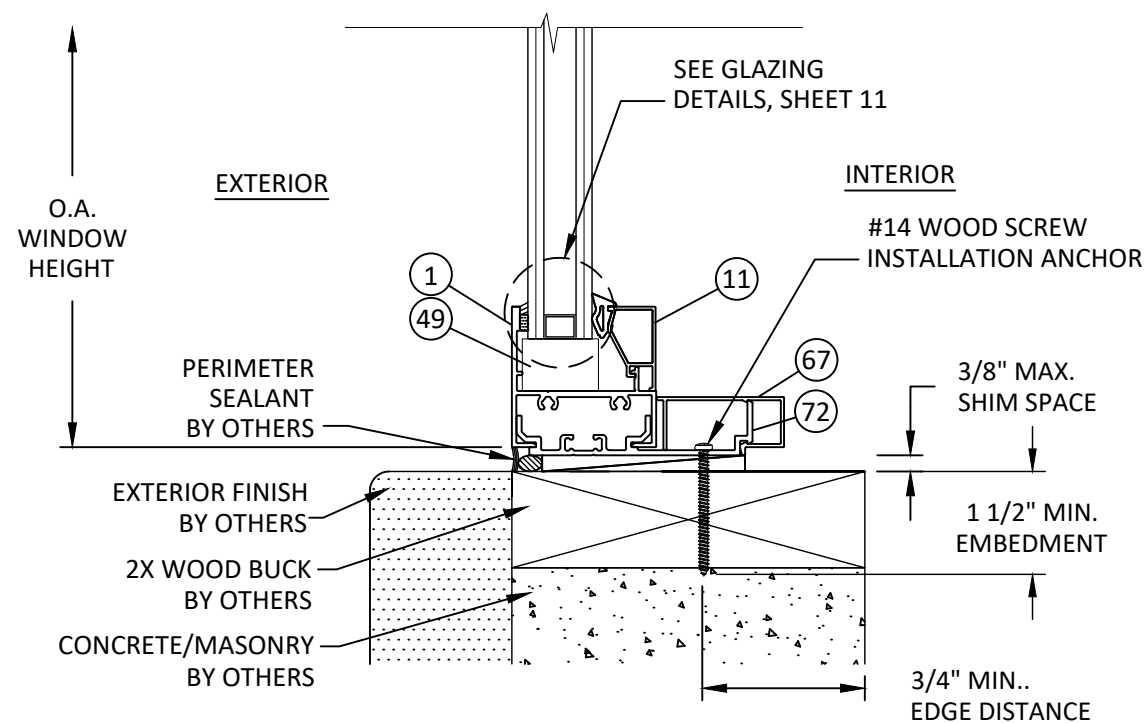
**K**  
**8** **VERTICAL SECTION**  
VENT HEAD - 2X WOOD FRAME  
STRAP ANCHOR - TYP. (PROJECT OUT)



**L**  
**8** **HORIZONTAL SECTION**  
VENT JAMB - MULL TUBE FRAME  
STRAP ANCHOR - TYP. (PROJECT OUT)  
ALTERNATE #1



**J**  
**8** **VERTICAL SECTION**  
VENT SILL - CONCRETE/MASONRY  
STRAP ANCHOR - TYP. (PROJECT OUT)



**M**  
**8** **VERTICAL SECTION**  
FIXED SILL - 2X WOOD BUCK  
STRAP ANCHOR - TYP.



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PROJECT OUT & PROJECT IN WINDOWS  
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STRAP INSTALLATION DETAILS

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SCALE: **NTS**

DWG. #: **YKK243**

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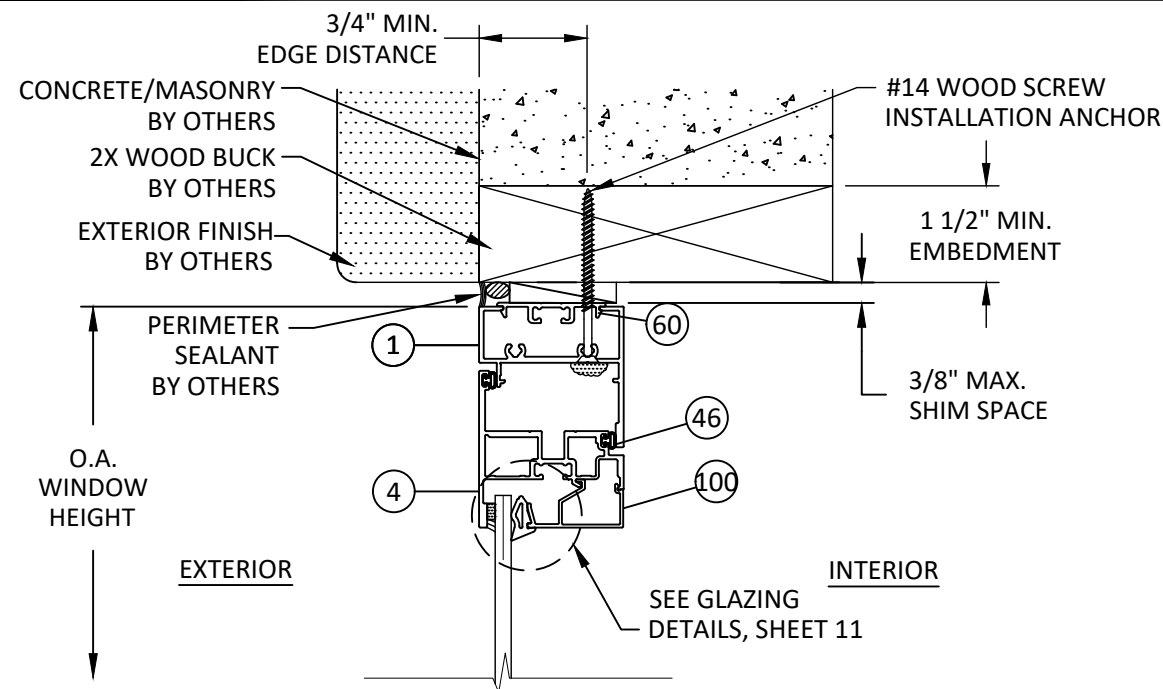
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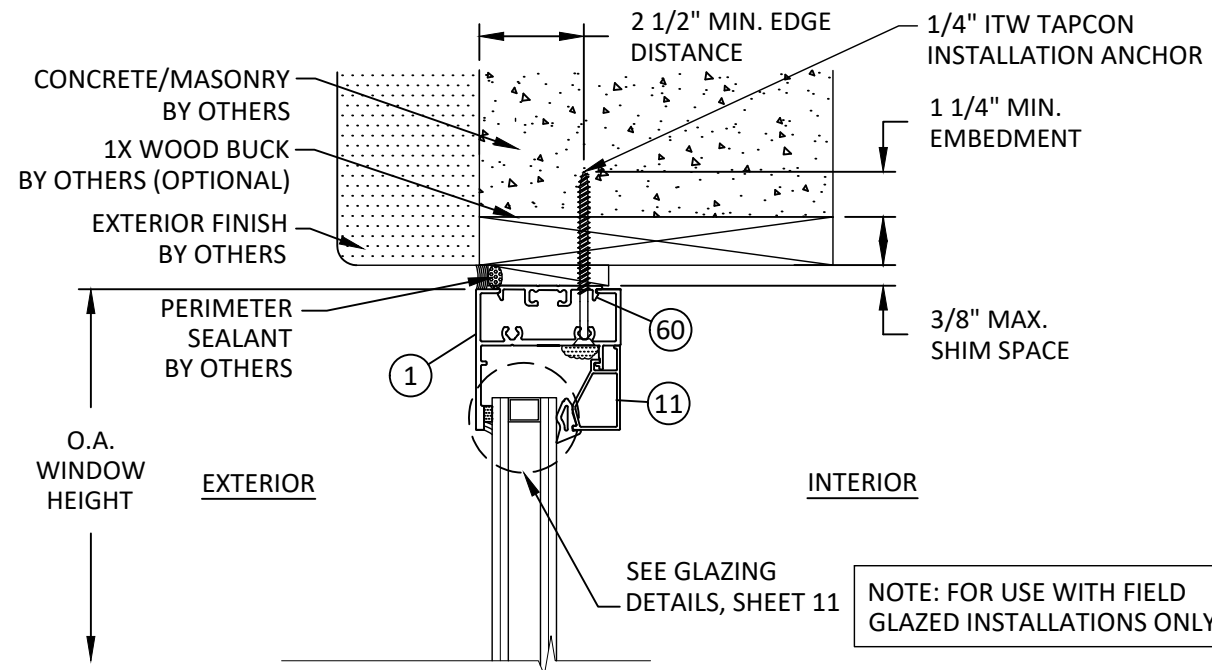
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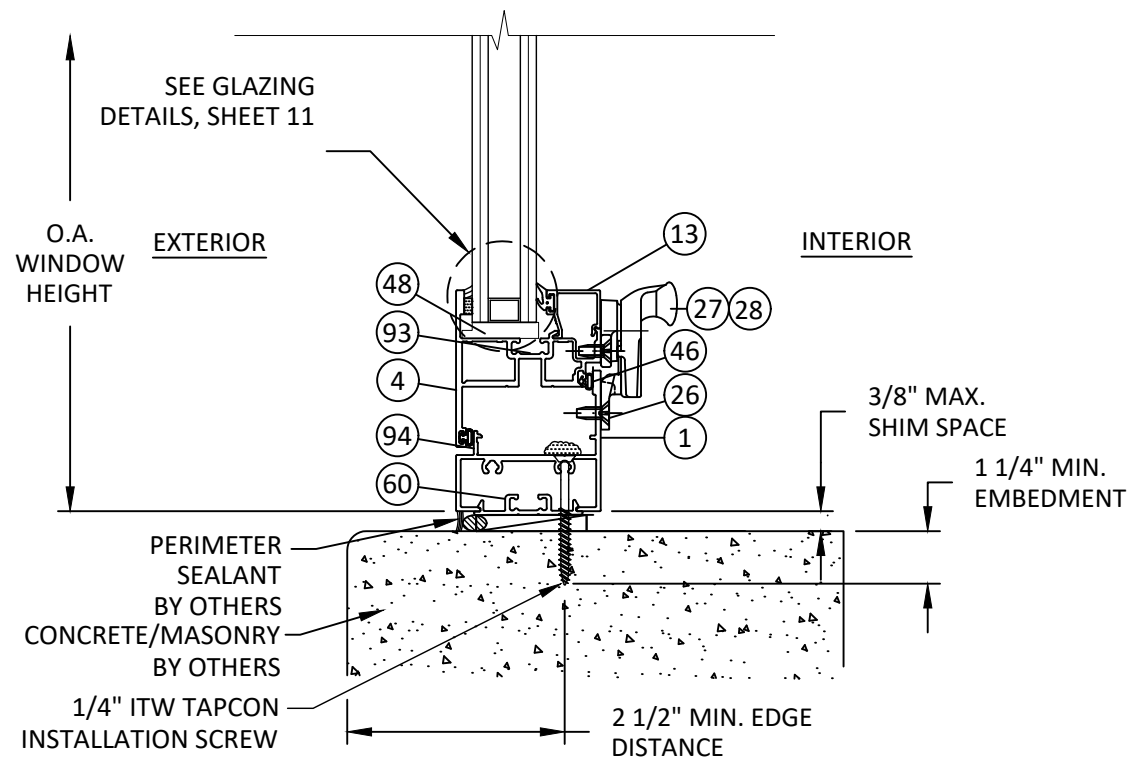
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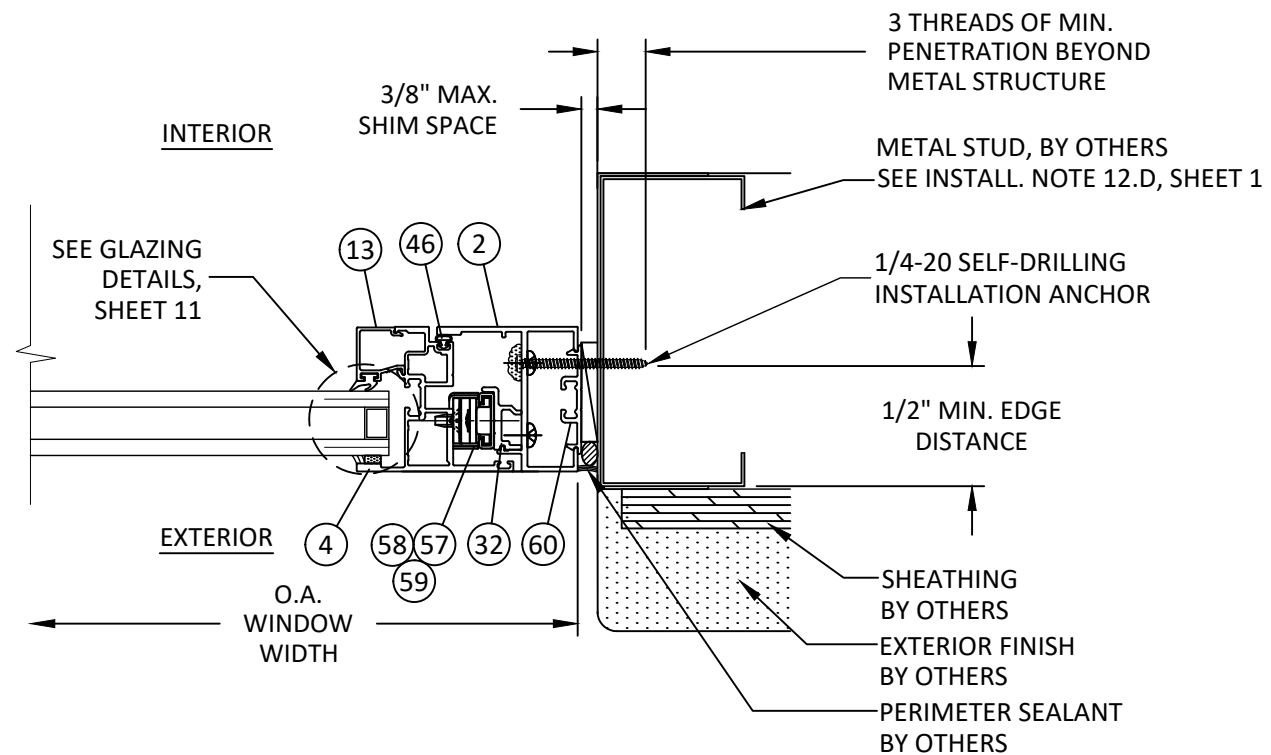
**09 VERTICAL SECTION**  
VENT HEAD - 2X WOOD BUCK  
THROUGH FRAME - TYP. (PROJECT OUT)



**P9 VERTICAL SECTION**  
FIXED HEAD - 1X/CONCRETE/MASONRY  
THROUGH FRAME - TYP.



**N9 VERTICAL SECTION**  
VENT SILL - CONCRETE/MASONRY  
THROUGH FRAME - TYP. (PROJECT OUT)



**Q9 HORIZONTAL SECTION**  
VENT JAMB - METAL STUD FRAME  
THROUGH FRAME - TYP. (PROJECT OUT)



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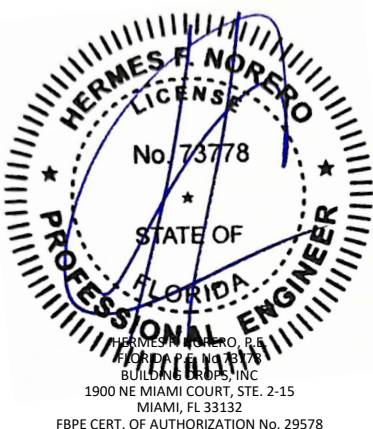
TITLE:  
YOW 225 NON-THERMAL ALUMINUM  
PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)  
THROUGH FRAME  
INSTALLATION DETAILS

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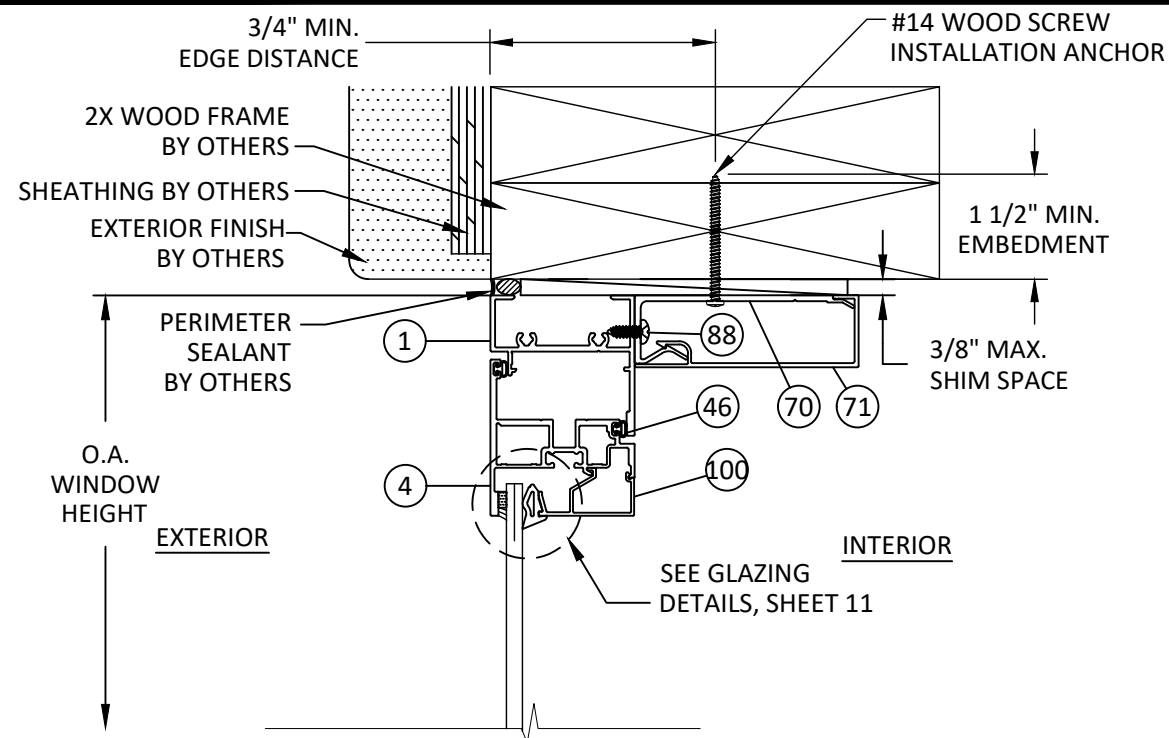
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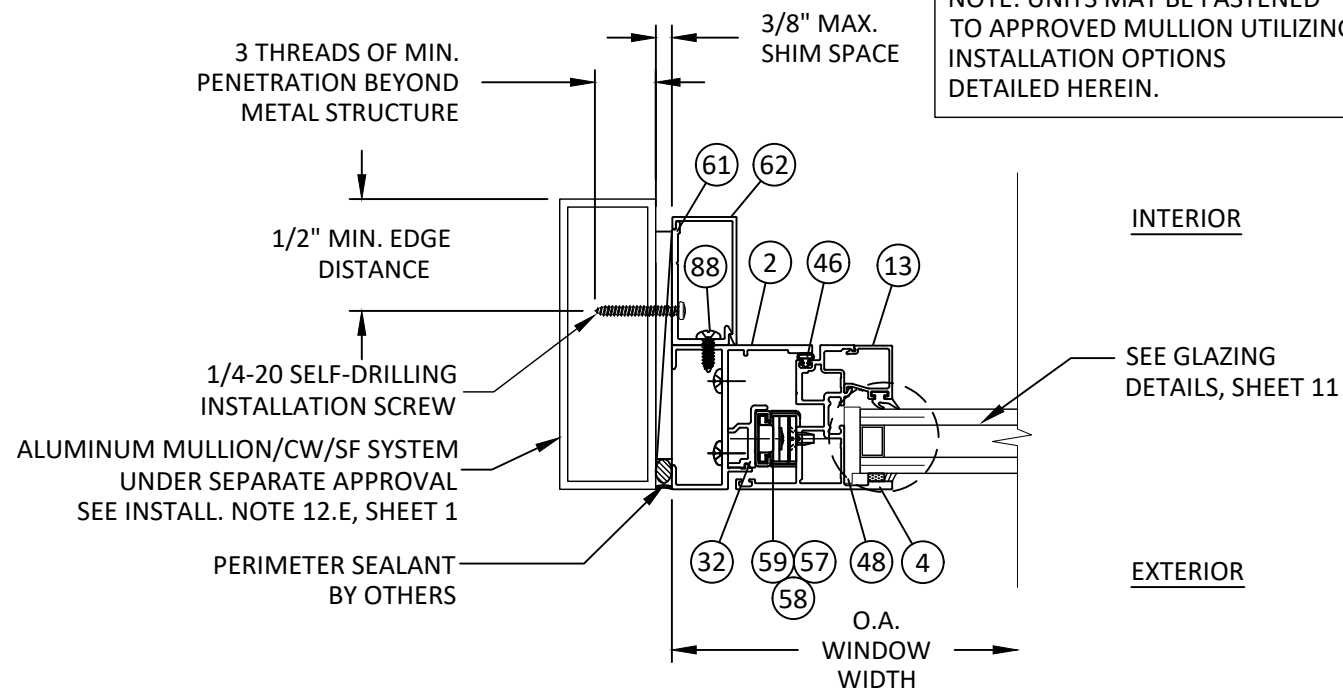
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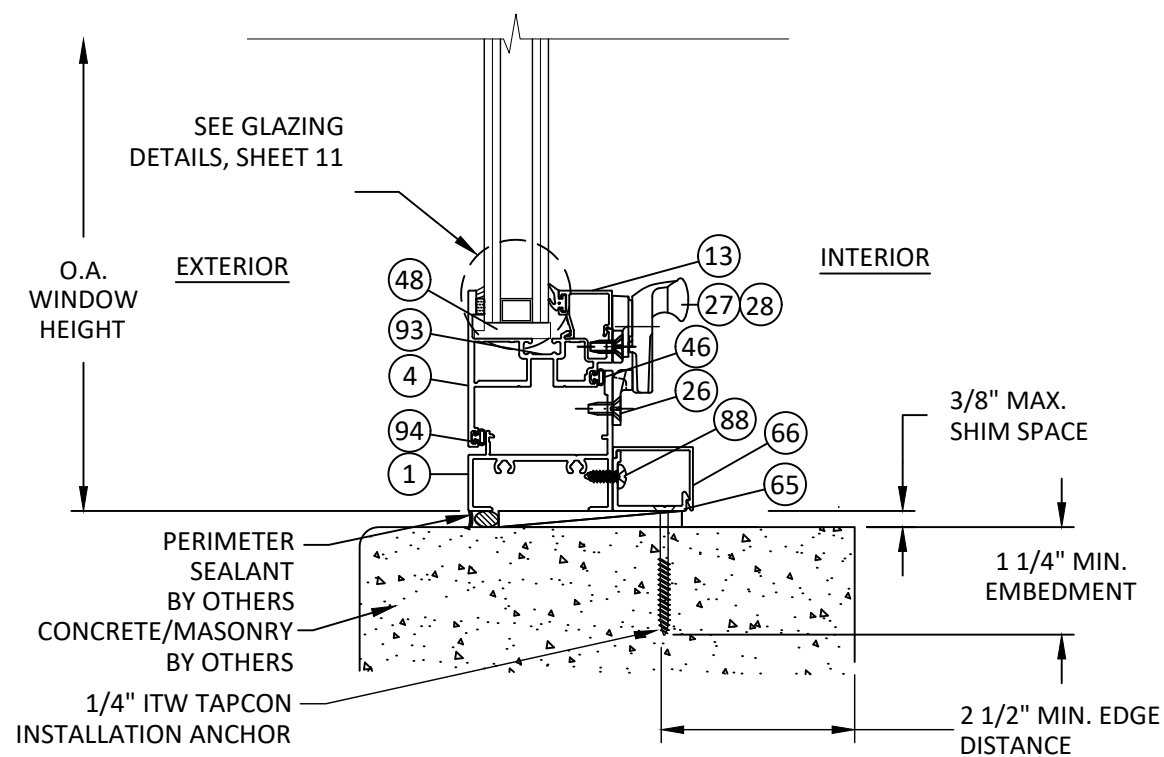
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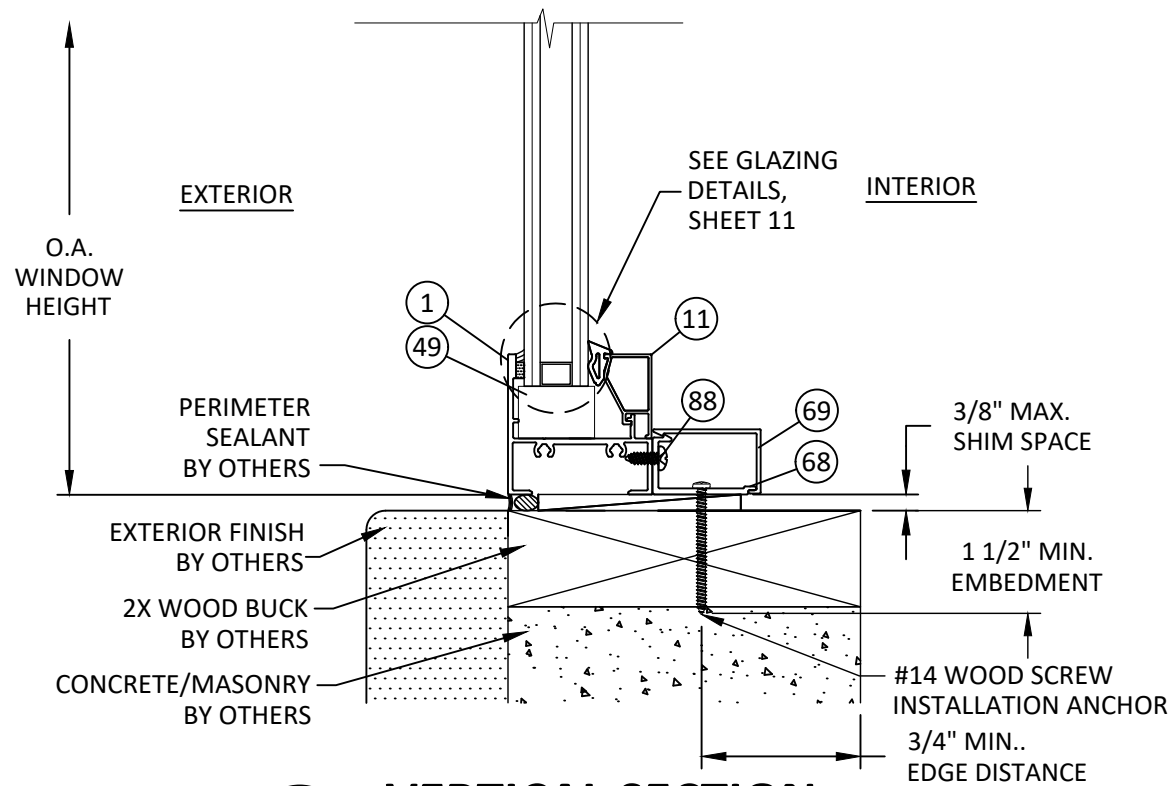
**S**  
**10** **VERTICAL SECTION**  
VENT HEAD - 2X WOOD FRAME  
TRIM CLIP ANCHOR - TYP. (PROJECT OUT)



**T**  
**10** **HORIZONTAL SECTION**  
VENT JAMB - MULL TUBE FRAME  
TRIM CLIP ANCHOR - TYP. (PROJECT OUT)



**R**  
**10** **VERTICAL SECTION**  
VENT SILL - CONCRETE/MASONRY  
TRIM CLIP ANCHOR - TYP. (PROJECT OUT)



**U**  
**10** **VERTICAL SECTION**  
FIXED SILL - 2X WOOD BUCK  
TRIM CLIP ANCHOR - TYP.

NOTE: UNITS MAY BE FASTENED TO APPROVED MULLION UTILIZING INSTALLATION OPTIONS DETAILED HEREIN.



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TITLE: YOW 225 NON-THERMAL ALUMINUM PROJECT OUT & PROJECT IN WINDOWS (NON-HVHZ) (NON-IMPACT)

TRIM CLIP ANCHOR INSTALLATION

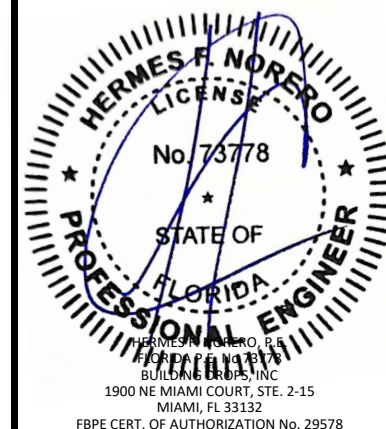
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MIAMI, FL 33132  
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SCALE: **NTS**

DWG. #: **YKK243**

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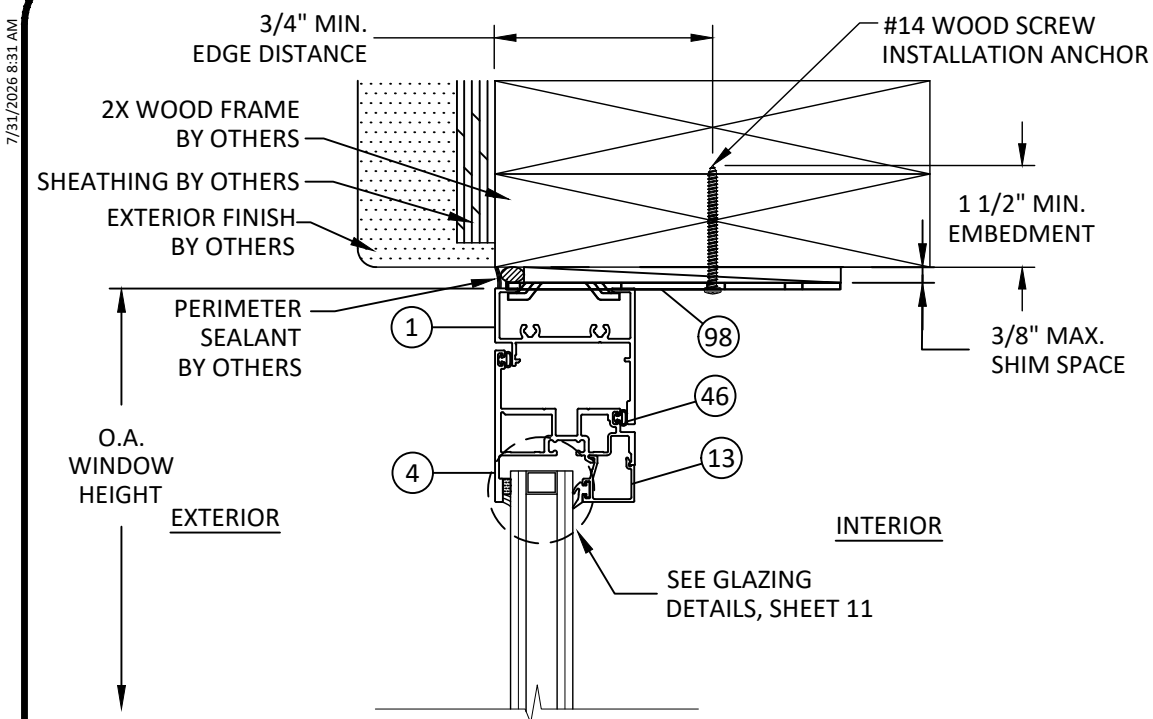
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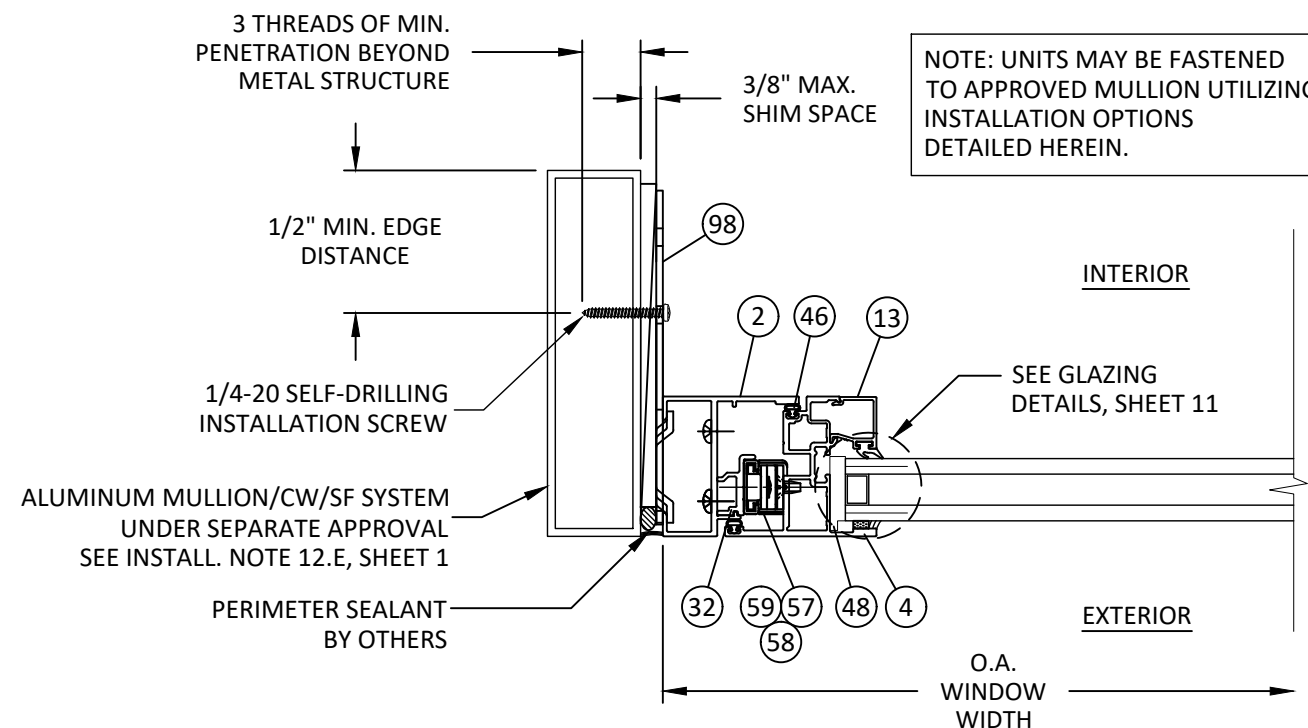
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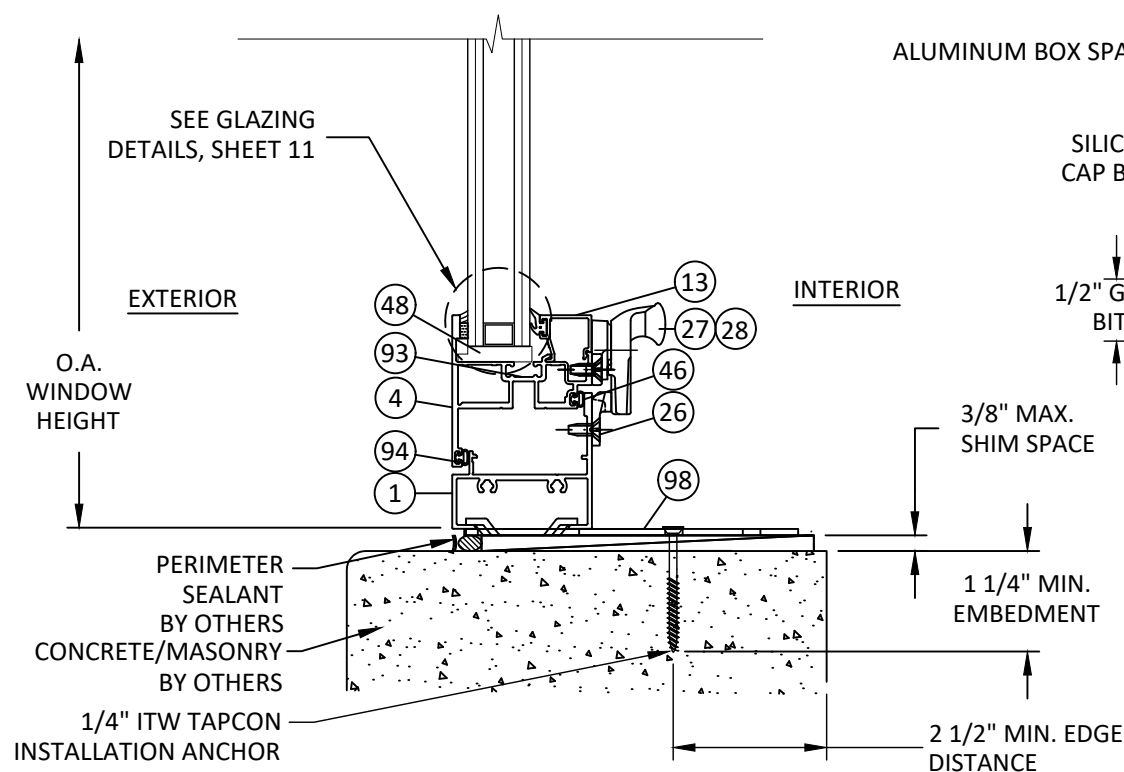
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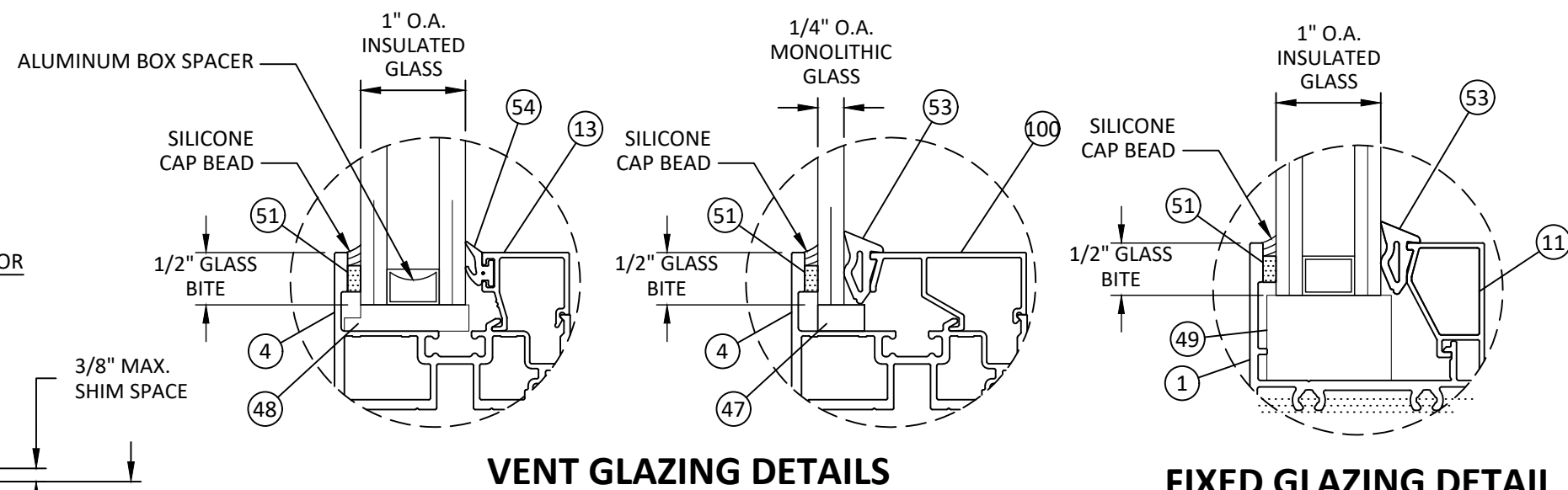
**W 11 VERTICAL SECTION**  
VENT HEAD - 2X WOOD FRAME  
TWIST ANCHOR - TYP. (PROJECT OUT)



**X 11 HORIZONTAL SECTION**  
VENT JAMB - MULL TUBE FRAME  
TWIST ANCHOR - TYP. (PROJECT OUT)



**V 11 VERTICAL SECTION**  
VENT SILL - CONCRETE/MASONRY  
TWIST ANCHOR - TYP. (PROJECT OUT)



**VENT GLAZING DETAILS**

**FIXED GLAZING DETAIL**

**NOTES:**

- 1) GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E 1300 GLASS CHART REQUIREMENTS.
- 2) ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE FBC.
- 3) ALL LITES GREATER THAN 36" IN WIDTH SHALL UTILIZE SETTING BLOCKS IN ACCORDANCE WITH THE FBC. CH.24
- 4) SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.

**ALUMINUM BOX SPACER:**

AROUND THE PERIMETER OF THE GLASS

**PRIMARY SEALANT:**

POLYISOBUTYLENE (PIB)

**SECONDARY SEALANT:**

STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATED GLASS UNITS.



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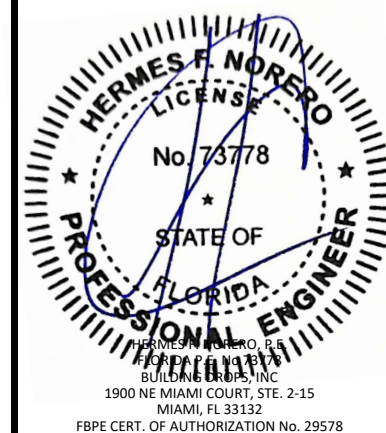
TITLE: YOW 225 NON-THERMAL ALUMINUM  
PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)  
TWIST ANCHOR DETAILS  
& GLAZING DETAILS

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WEB: www.buildingdrops.com



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SCALE:

**NTS**

DWG. #:

**YKK243**

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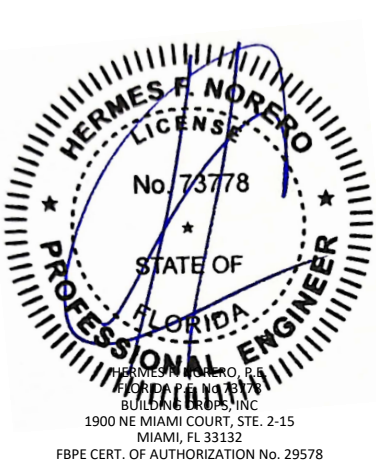
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PROJECT IN INSTALLATION DETAILS

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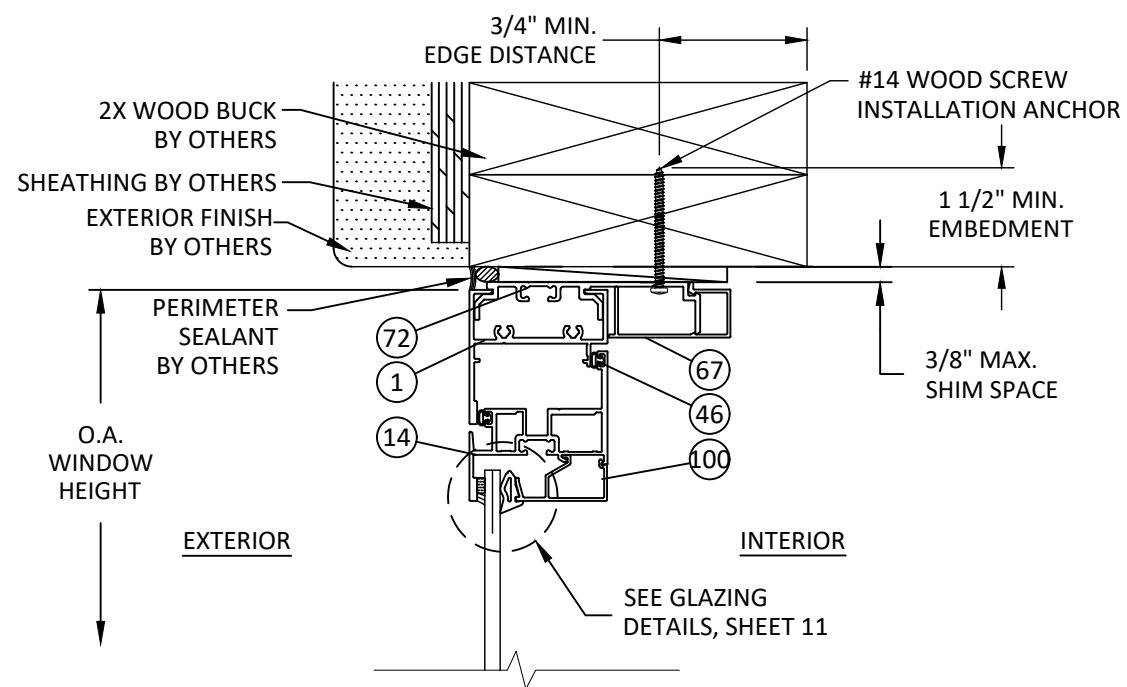
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DWG. #:  
**YKK243**

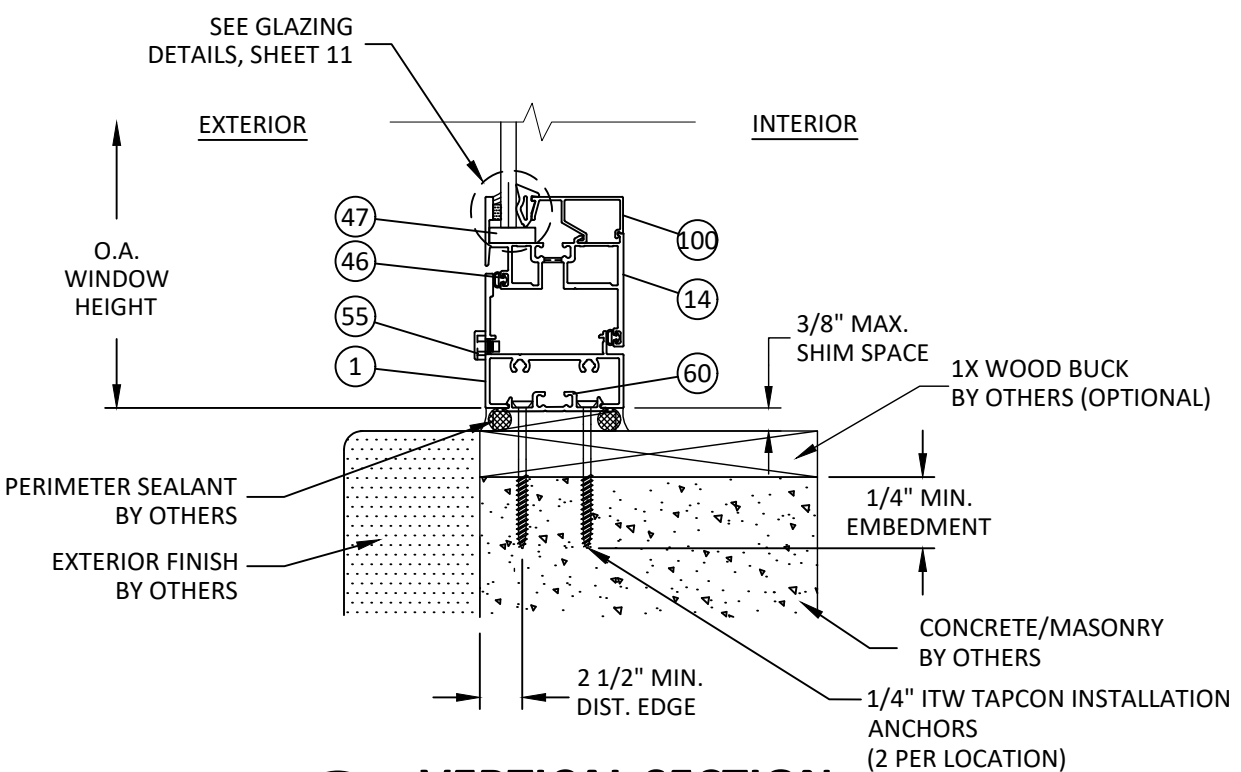
SHEET:  
**12**

REV.  
**E**

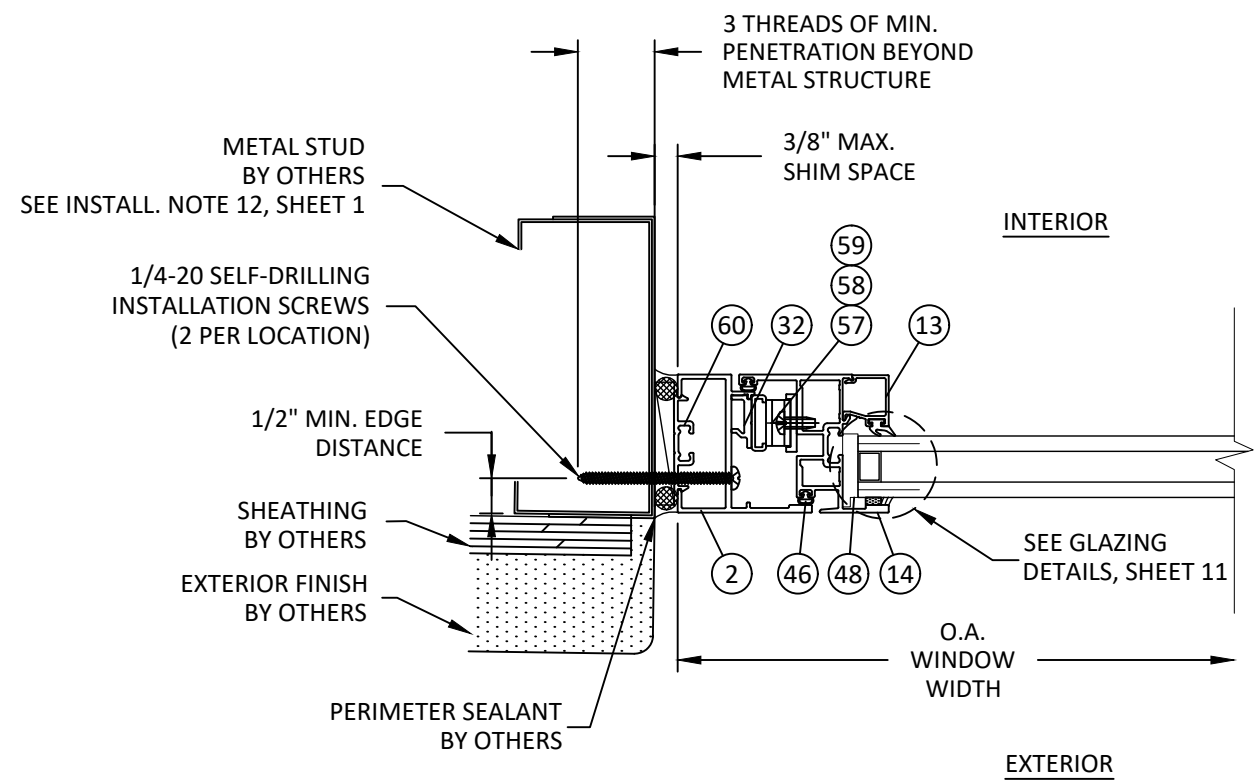
OF 19



**Z-12**  
**VERTICAL SECTION**  
**VENT HEAD - 2X WOOD BUCK STRAP (PROJECT IN)**



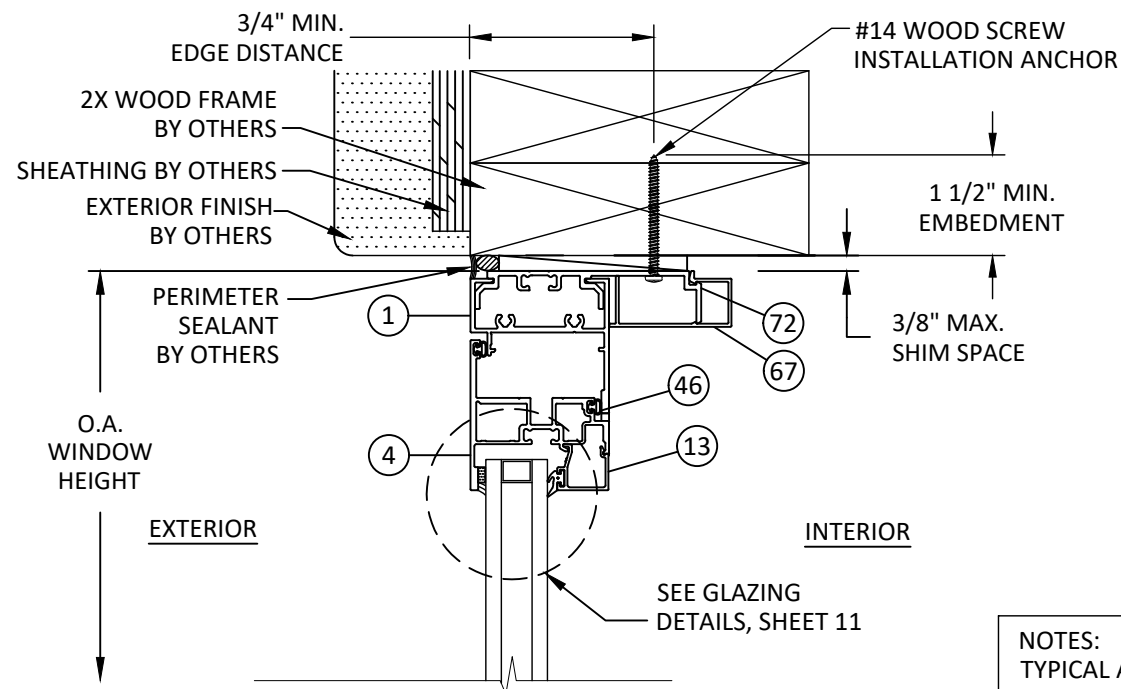
**Y-12**  
**VERTICAL SECTION**  
**VENT SILL - CONCRETE/MASONRY THROUGH FRAME (PROJECT IN)**



**AA-12**  
**HORIZONTAL SECTION**  
**VENT JAMB - METAL STUD FRAME THROUGH FRAME (PROJECT IN)**

NOTES:  
TYPICAL PROJECT IN DETAILS SHOWN, PROJECT IN WINDOW IS INTERCHANGEABLE WITH PROJECT OUT ANCHOR CONDITIONS SHOWN ON SHEETS 6-11.

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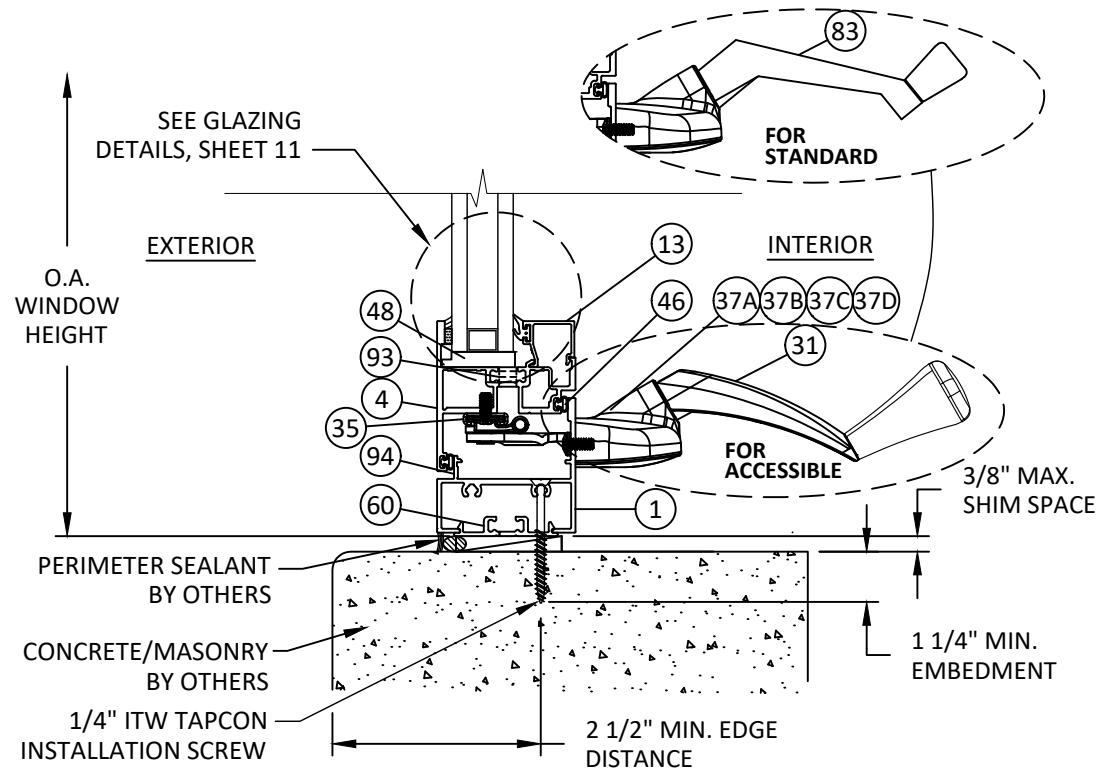


AC  
13

## VERTICAL SECTION

VENT HEAD - 2X WOOD FRAME  
STRAP ANCHOR - TYP. "OUTSWING"  
ACCESSIBLE HARDWARE

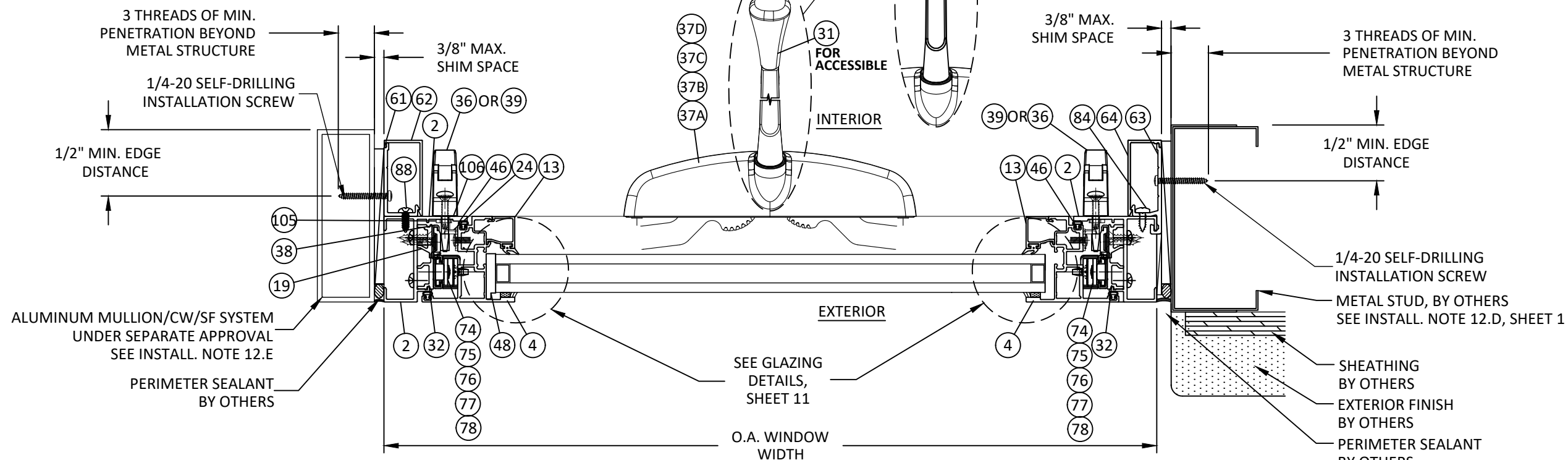
NOTES:  
TYPICAL ACCESSIBLE PROJECT  
OUT WINDOW DETAILS  
SHOWN, ACCESSIBLE WINDOW  
MAY USE ANY OF THE ANCHOR  
CONDITIONS SHOWN ON  
SHEETS 6-11.



AD  
13

## VERTICAL SECTION

VENT SILL - CONCRETE/MASONRY  
THROUGH FRAME - TYP. "OUTSWING"  
ACCESSIBLE HARDWARE



AB  
13

## HORIZONTAL SECTION

VENT JAMB - METAL SUBSTRATES  
TRIM CLIP ANCHOR - TYP. "OUTSWING"  
ACCESSIBLE HARDWARE



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PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)

TYP. ACCESSIBLE HARDWARE  
ANCHOR DETAILS

PREPARED BY:

BUILDING DROPS, INC.

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MIAMI, FL 33132

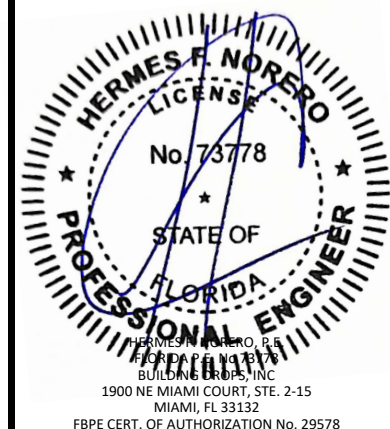
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FAX: (954)744-4738

WEB: www.buildingdrops.com



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|---------------------|----|----------|
| 7TH FBC CODE CHANGE | MS | 04.16.20 |
| 8TH FBC CODE CHANGE | SH | 06.01.23 |
| MISC. UPDATE        | SH | 02.26.24 |
| 9TH FBC CODE CHANGE | SH | 07.31.26 |

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DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:

FL16313

DATE: 8.29.17

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FM

CHK. BY:  
HFN

SCALE: NTS

DWG. #: YKK243

SHEET:

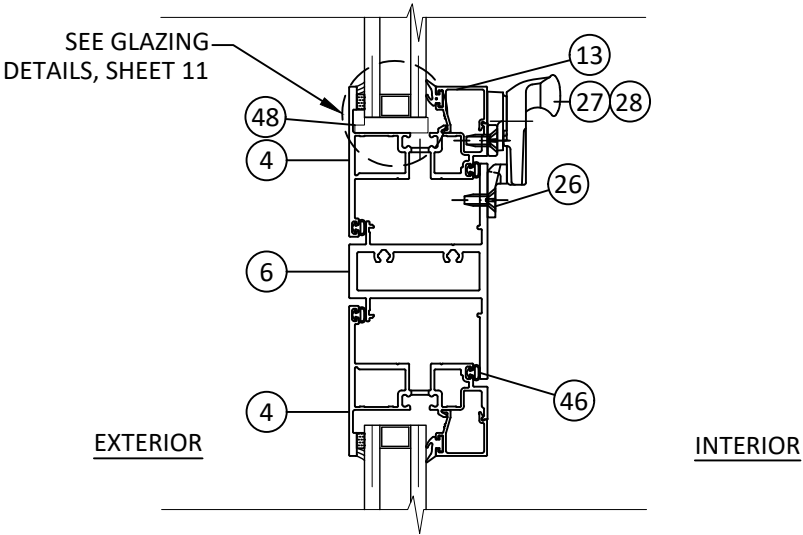
13

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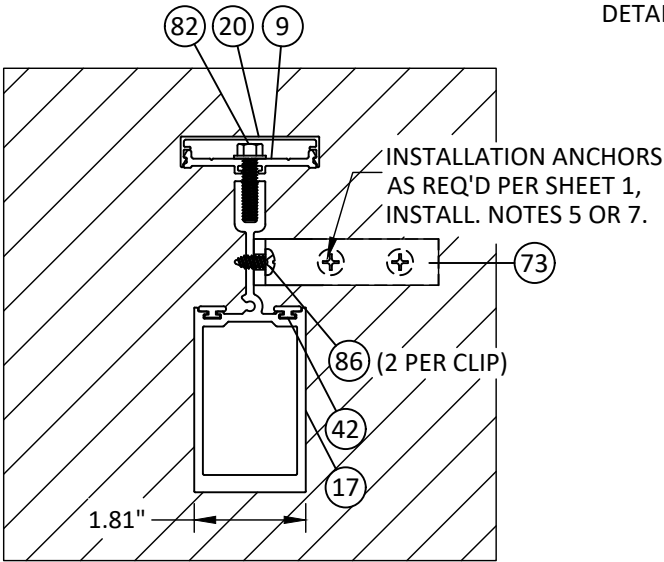
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OF 19

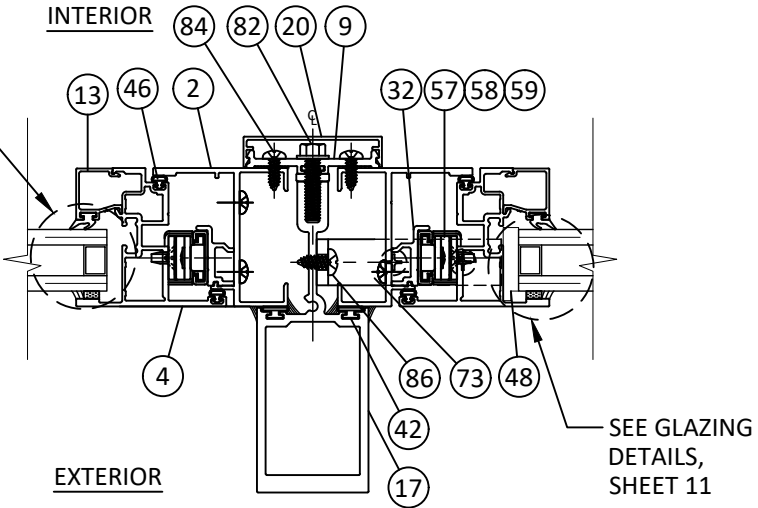
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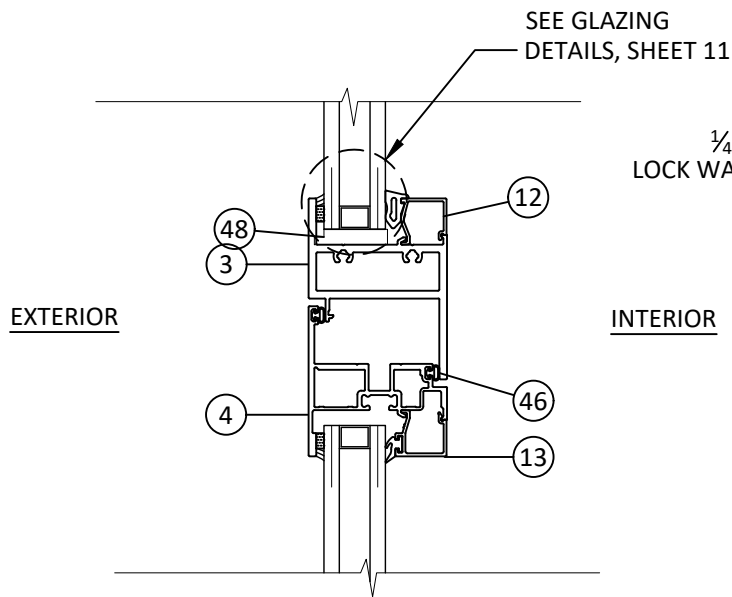
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PROJECT OUT - PROJECT OUT



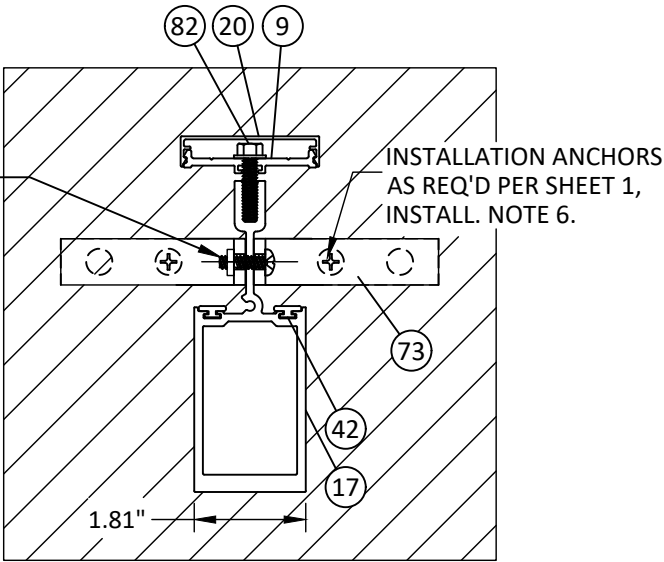
**AH 14 HORIZONTAL SECTION**  
STACK MULLION - TYP.  
JAMB INSTALLATION



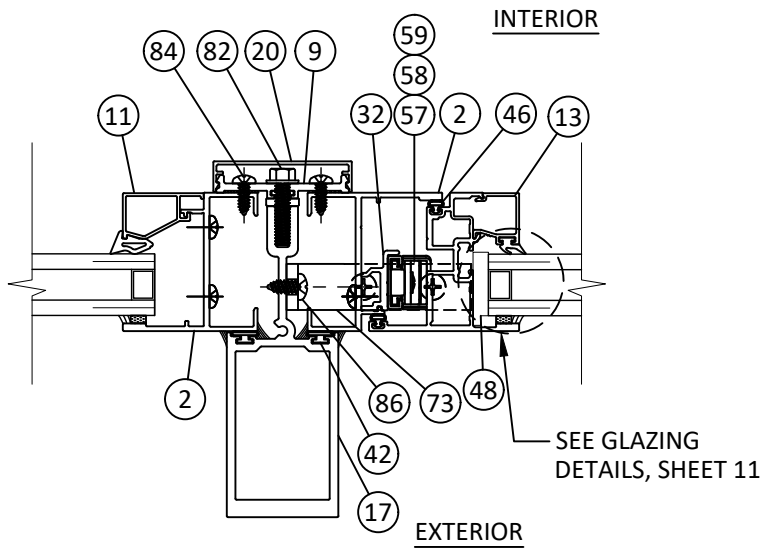
**AJ 14 HORIZONTAL SECTION**  
STACK MULLION - TYP.  
PROJECT OUT TO PROJECT OUT



**AE 14 VERTICAL SECTION**  
INTEGRAL MULLION-TYP.  
FIXED OVER PROJECT OUT



**AG 14 HORIZONTAL SECTION**  
STACK MULLION - TYP.  
INTERMEDIATE INSTALLATION



**AI 14 HORIZONTAL SECTION**  
STACK MULLION - TYP.  
FIXED TO PROJECT OUT



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PROJECT OUT INTEGRAL &  
STACK MULL DETAILS



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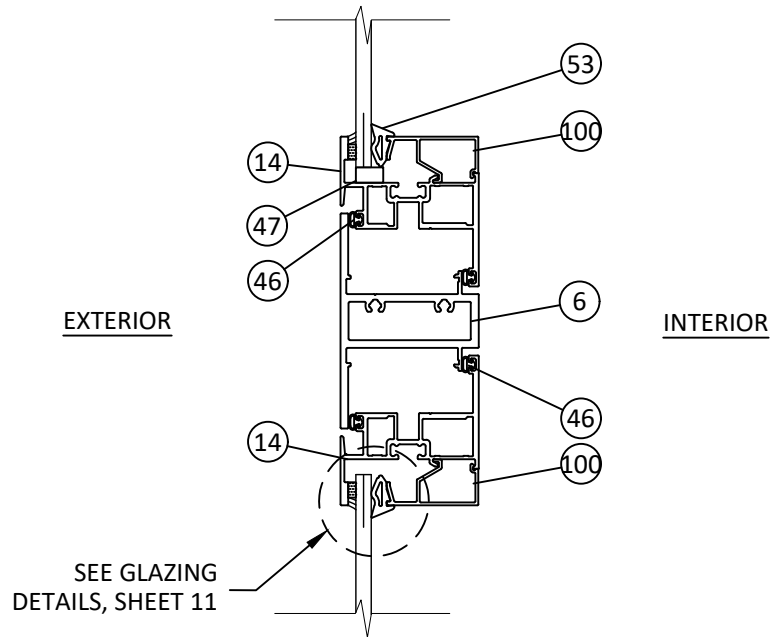
| REMARKS             | BY | DATE     |
|---------------------|----|----------|
| 7TH FBC CODE CHANGE | MS | 04.16.20 |
| 8TH FBC CODE CHANGE | SH | 06.01.23 |
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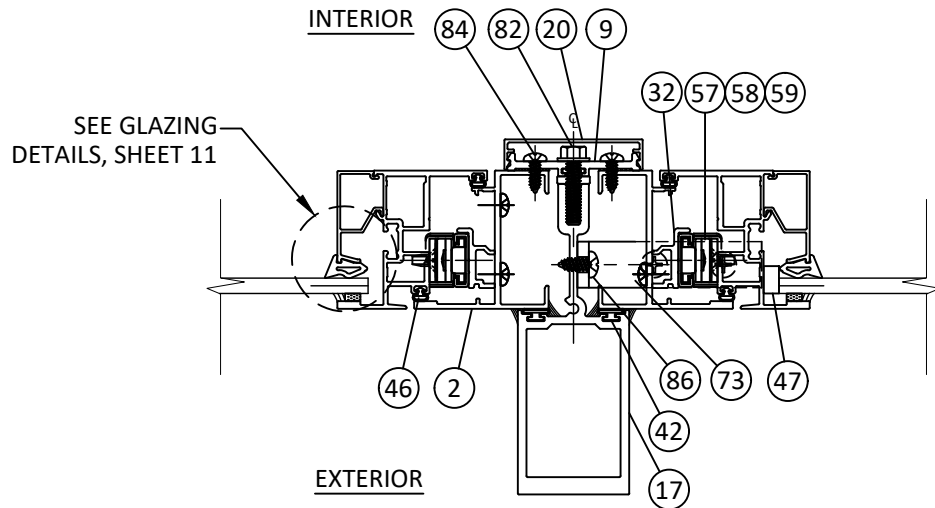
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| FL #:    | FL16313 |
| DATE:    | 8.29.17 |
| DWG. BY: | FM      |
| CHK. BY: | HFN     |
| SCALE:   | NTS     |
| DWG. #:  | YKK243  |
| SHEET:   | 14      |
| REV.     | E       |

OF 19

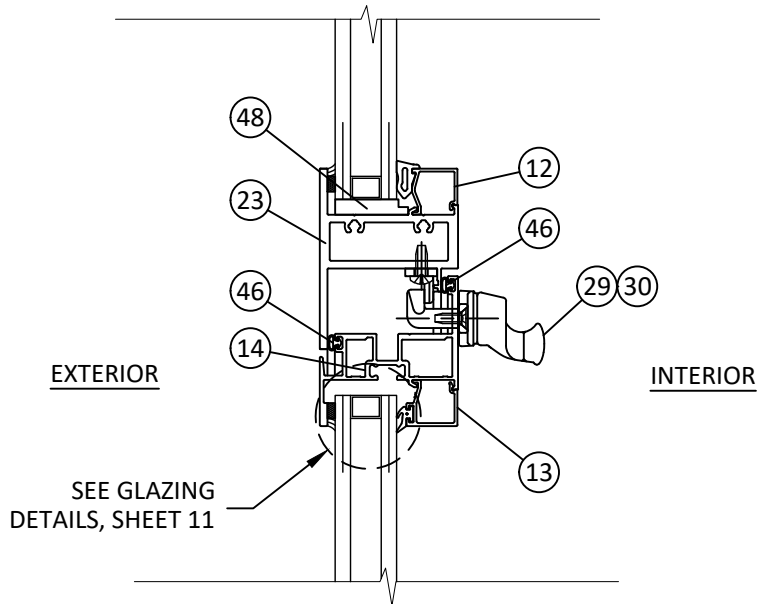
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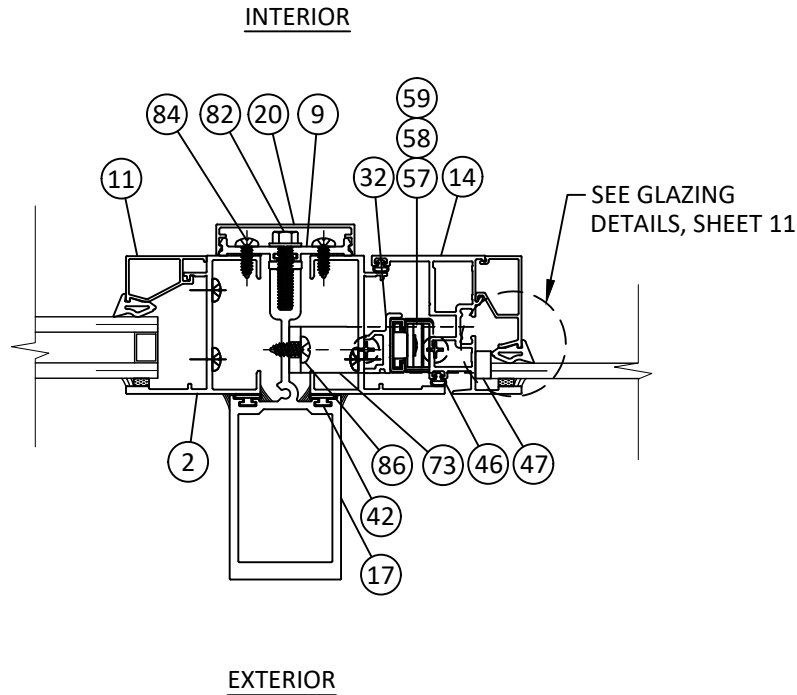
**AL 15 HORIZONTAL SECTION**  
PROJECT IN - PROJECT IN



**AP 15 HORIZONTAL SECTION**  
STACK MULLION - TYP.  
PROJECT IN TO PROJECT IN



**AK 15 VERTICAL SECTION**  
INTEGRAL MULLION-TYP.  
FIXED OVER PROJECT IN



**AO 15 HORIZONTAL SECTION**  
STACK MULLION - TYP.  
FIXED TO PROJECT IN



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PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)

PROJECT IN INTEGRAL AND  
STACK MULL DETAILS

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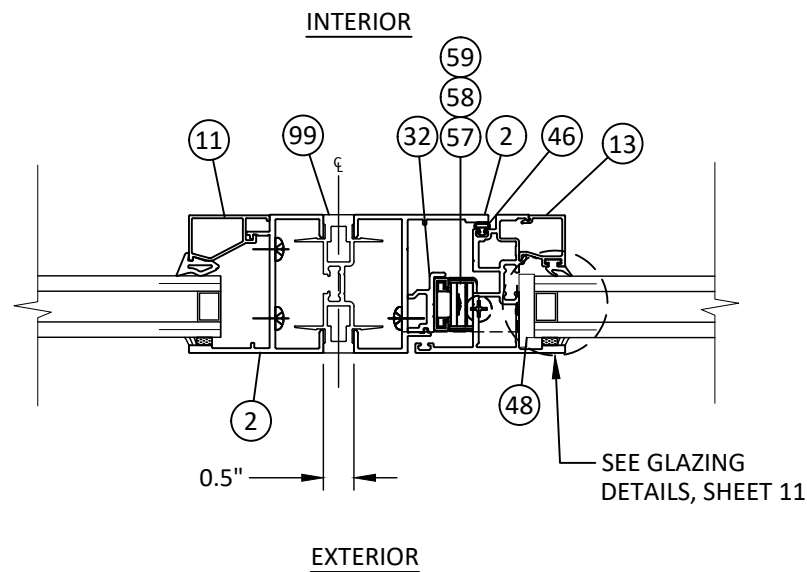
DWG. BY: **FM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK243**

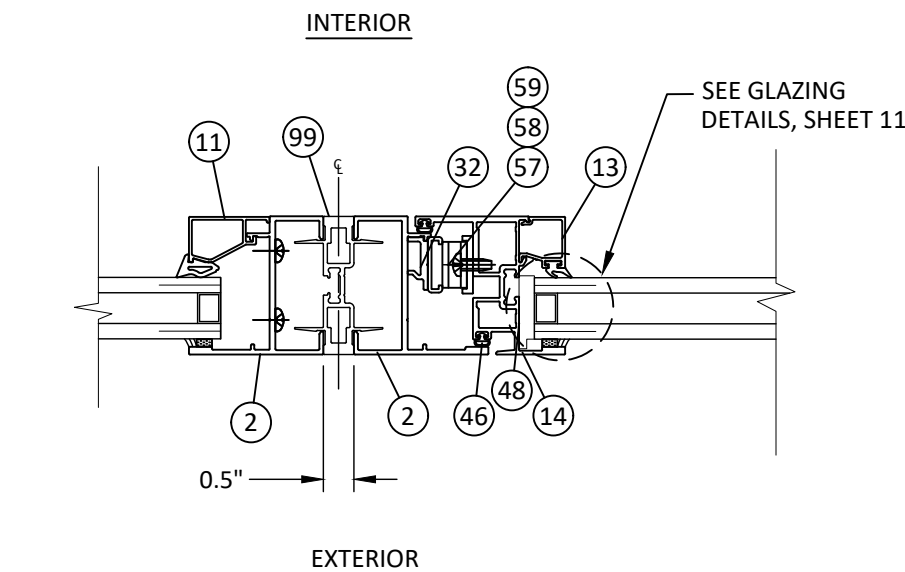
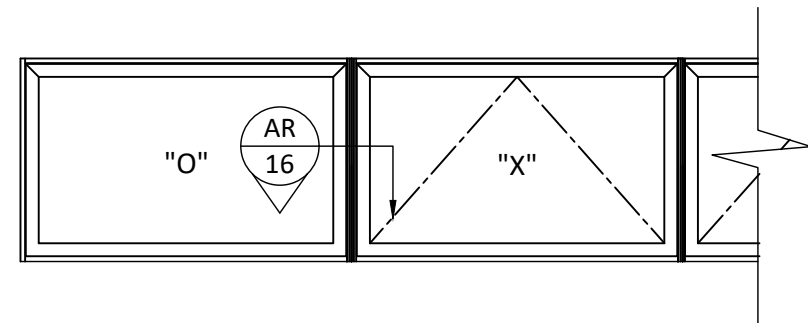
SHEET: **15** REV. **E**

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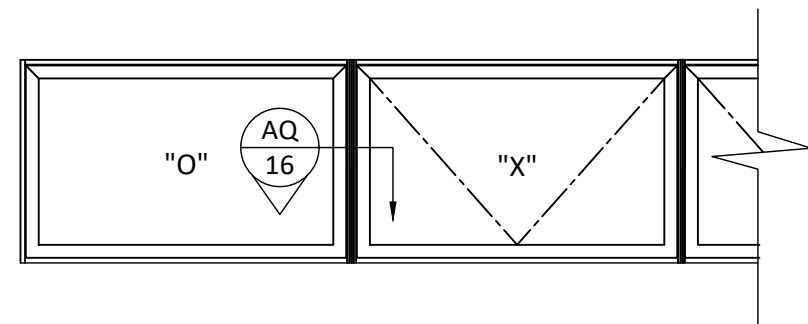
**AR 16** **HORIZONTAL SECTION**  
"I" MULLION - TYP.  
FIXED TO PROJECT OUT

- NOTES:
- "I" MULLION MAY BE USED ON A SINGLE ROW (SEE ELEVATION TO RIGHT) OF PROJECTED WINDOW (MAY BE MULLED TO FIXED WINDOW) UP TO THE MAXIMUM APPROVED PROJECTED VENT HEIGHT OF 48" AT +/- 65 PSF.
  - CONFIGURATIONS OF FIXED WINDOWS OVER PROJECTED WINDOWS OR PROJECTED WINDOWS OVER FIXED WINDOWS MULLED TO ADJACENT WINDOWS SHALL BE EVALUATED FOR STRUCTURAL ADEQUACY ON A SITE BY SITE BASIS.



**AQ 16** **HORIZONTAL SECTION**  
"I" MULLION - TYP.  
FIXED TO PROJECT IN

| "I" DESIGN PRESSURE TABLE |           |                 |
|---------------------------|-----------|-----------------|
| VENT WIDTH                | MULL SPAN | DESIGN PRESSURE |
| 45                        | 50        | 65.0            |
| 46                        | 49        | 65.0            |
| 47                        | 48        | 65.0            |
| 49                        | 46        | 65.0            |
| 52                        | 44        | 65.0            |
| 54                        | 42        | 65.0            |
| 57                        | 40        | 65.0            |
| 60                        | 38        | 65.0            |
| 63                        | 36        | 65.0            |
| 67                        | 34        | 65.0            |
| 72                        | 32        | 65.0            |
| 74                        | 31        | 65.0            |



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LICENSE  
No. 73778  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.  
BUILDING DROPS, INC.  
1900 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:  
**FL16313**

DATE: **8.29.17**

DWG. BY:  
**FM**

CHK. BY:  
**HFN**

SCALE: **NTS**

DWG. #: **YKK243**

SHEET:  
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OF 19

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| BILL OF MATERIALS |           |                            |                    |
|-------------------|-----------|----------------------------|--------------------|
| ITEM              | PART No.  | DESCRIPTION                | MATERIAL           |
| 1                 | E9-4536   | FRAME HEAD AND SILL        | 6063-T5            |
| 2                 | E9-4537   | FRAME JAMB                 | 6063-T5            |
| 3                 | E9-4570   | MULLION                    | 6063-T5            |
| 4                 | E9-4534   | VENT (OUTSWING)            | 6063-T5            |
| 5                 | E9-4538   | COMMON FRAME               | 6063-T5            |
| 6                 | E9-4539   | MULLION                    | 6063-T5            |
| 7                 | BE9-4583  | 2 ¾" WEEPING SILL FLASHING | 6063-T5            |
| 8                 | E9-4577   | RECEPTOR                   | 6063-T5            |
| 9                 | E9-4231   | PRESSURE BAR               | 6063-T5            |
| 10                | E9-4513   | ADAPTOR                    | 6063-T5            |
| 11                | E9-4507   | FIXED GLASS STOP           | 6063-T5            |
| 12                | E9-4506   | FIXED GLASS STOP           | 6063-T5            |
| 13                | E9-5218   | VENT GLASS STOP            | 6063-T5            |
| 14                | E9-4535   | VENT (INSWING)             | 6063-T5            |
| 15                | E9-4586   | 3" SILL TRIM               | 6063-T5            |
| 16                | E9-4559   | SILL TRIM BASE             | 6063-T5            |
| 17                | E9-4562   | STACKING MULLION           | 6063-T5            |
| 18                | E9-4578   | RECEPTOR STOP              | 6063-T5            |
| 19                | E9-4593   | LOCK BAR BASE              | 6063-T5            |
| 20                | E9-5111   | COVER                      | 6063-T5            |
| 21                | E9-7318   | FIXED GLASS STOP           | 6063-T5            |
| 22                | E9-7319   | FIXED GLASS SNAP COVER     | 6063-T5            |
| 23                | E9-4571   | MULLION                    | 6063-T5            |
| 24                | 4K-18584  | KEEPER                     | PLATED STEEL       |
| 25                | E1-1505   | MULTI LOCK HANDLE          | WHITE BRONZE       |
| 26                | E1-1519   | KEEPER                     | WHITE BRONZE       |
| 27                | E1-1541   | CAM HANDLE - (RH) OUTSWING | WHITE BRONZE       |
| 28                | E1-1542   | CAM HANDLE - (LH) OUTSWING | WHITE BRONZE       |
| 29                | E1-1504   | CAM HANDLE - (RH) INSWING  | -                  |
| 30                | E1-1503   | CAM HANDLE - (LH) INSWING  | -                  |
| 31                | E1-1983   | LARGE HANDLE CRANK         | ZAMACK/STEEL       |
| 32                | E1-1782   | HINGE BASE                 | 6063-T5            |
| 33                | E1-1786   | CORNER BLOCK               | 6063-T5            |
| 34                | E1-1787   | CORNER BLOCK               | 6063-T5            |
| 35                | E1-1982   | TRACK                      | STAINLESS STEEL    |
| 36                | E1-1994   | EXTENDED MPL HANDLE        | ZAMACK/STEEL       |
| 37A               | E1-1991   | 5 ½" DUAL ARM OPERATOR     | ZAMACK/STEEL       |
| 37B               | E1-2012   | 7" DUAL ARM OPERATOR       | ZAMACK/STEEL       |
| 37C               | E1-2013   | 9" DUAL ARM OPERATOR       | ZAMACK/STEEL       |
| 37D               | E1-1992   | 11" DUAL ARM OPERATOR      | ZAMACK/STEEL       |
| 38                | E1-2001   | LOCK BAR                   | STAINLESS/ALUMINUM |
| 39                | E1-1996   | STANDARD MPL HANDLE        | ZAMACK/STEEL       |
| 40                | -         | -                          | -                  |
| 41                | -         | -                          | -                  |
| 42                | E2-0051   | AT GASKET                  | SANTOPRENE         |
| 43                | E2-0653   | SIDE BLOCK                 | EPDM               |
| 44                | E2-0359   | PUSH-IN SPACER             | SCR 900            |
| 45                | E2-0367   | PUSH-IN SPACER             | SCR 900            |
| 46                | E2-0625   | AT GASKET                  | SANTOPRENE         |
| 47                | E2-0623   | SETTING BLOCK              | EPDM               |
| 48                | E2-0626PC | SETTING BLOCK              | EPDM               |
| 49                | E2-0646   | SETTING BLOCK              | EPDM               |
| 50                | -         | -                          | -                  |
| 51                | E2-0670   | BACKER TAPE                | POLYURETHANE FOAM  |
| 52                | E2-0682   | GASKET - RUBBER            | BUTYL              |

| BILL OF MATERIALS |            |                                  |                       |
|-------------------|------------|----------------------------------|-----------------------|
| ITEM              | PART No.   | DESCRIPTION                      | MATERIAL              |
| 53                | E2-0672    | WEDGE GASKET                     | EPDM                  |
| 54                | E2-0050    | PRESET GASKET                    | EPDM                  |
| 55                | E3-1132    | WEEP COVER                       | MOLDED POLYAMIDE 6    |
| 56                | E1-1952    | KEEPER                           | CAST ALUMINUM         |
| 57                | 4K-14209   | 22" 4 BAR HINGE                  | STAINLESS STEEL       |
| 58                | 5K-15284   | 16" 4 BAR HINGE                  | STAINLESS STEEL       |
| 59                | 4K-14207   | 12" 4 BAR HINGE                  | STAINLESS STEEL       |
| 60                | E9-4566    | THROUGH FRAME FILLER PLATE       | 6063-T5               |
| 61                | E9-4031    | 1" X 2" CLIP                     | 6063-T5               |
| 62                | E9-4032    | 1" X 2" COVER                    | 6063-T5               |
| 63                | E1-1922    | ANCHOR CLIP                      | 6063-T5               |
| 64                | E9-4035    | ANCHOR CLIP COVER                | 6063-T5               |
| 65                | E9-4556    | 1¼" X 1" CLIP                    | 6063-T5               |
| 66                | E9-4557    | 1¼" X 1" COVER                   | 6063-T5               |
| 67                | E9-8431    | STRAP ANCHOR COVER               | 6063-T5               |
| 68                | E9-8537    | 1" X 1½" CLIP                    | 6063-T5               |
| 69                | E9-8538    | 1" X 1½" COVER                   | 6063-T5               |
| 70                | E9-8562    | 1½" X 3½" CLIP                   | 6063-T5               |
| 71                | E9-8563    | 1½" X 3½" COVER                  | 6063-T5               |
| 72                | E9-4529    | STRAP ANCHOR MIN. LENGTH: 4½"    | 6063-T5               |
| 73                | E1-1965    | MULLION CLIP AT ¾"               | 6063-T5               |
| 74                | E1-1995    | 10" 4 BAR HINGE (FOR PO)         | STAINLESS STEEL/BRASS |
| 75                | E1-1996    | 12" 4 BAR HINGE (FOR PO)         | STAINLESS STEEL/BRASS |
| 76                | E1-1997    | 16" 4 BAR HINGE (FOR PO)         | STAINLESS STEEL/BRASS |
| 77                | E1-1998    | 20" 4 BAR HINGE (FOR PO)         | STAINLESS STEEL/BRASS |
| 78                | E1-1999    | 24" 4 BAR HINGE (FOR PO)         | STAINLESS STEEL/BRASS |
| 79                | FF-1012-SS | #10-24 X ¾" FH MS SS F           | 300 SS                |
| 80                | -          | -                                | -                     |
| 81                | -          | -                                | -                     |
| 82                | HD-2516-W3 | 1/4" - 20 X 1 1/4" HWHMS         | 300 SS                |
| 83                | E1-9932    | CRANK HANDLE                     | ZAMACK/STEEL          |
| 84                | PC-1008-SS | #10 X ½" PH SMS SS AB            | 300 SS                |
| 85                | PC-1016-SS | #10 X 1" PH SMS SS AB            | 300 SS                |
| 86                | PC-1208-SS | #12 X ½" PH SMS SS AB            | 300 SS                |
| 87                | PC-1006-SS | #10-24 X ⅜" FM MS SS F           | 300 SS                |
| 88                | PC-1008    | #10 X ½" PH SMS                  | SAE GR.5              |
| 89                | -          | -                                | -                     |
| 90                | PS-0808-SS | #8 X ½" PH SMS SS SELF DRILLING  | 410 SS                |
| 91                | PS-1016-SS | #10 X 1" PH SMS SS SELF DRILLING | 410 SS                |
| 92                | -          | -                                | -                     |
| 93                | -          | ⅝" Ø WEEP HOLE                   | -                     |
| 94                | -          | 1⅙" X ¼" WEEP SLOT               | -                     |
| 95                | -          | -                                | -                     |
| 96                | -          | #10-16 X ¾" SSMS (PH OR FH)      | -                     |
| 97                | -          | SILICONE ADHESIVE                | SILICONE              |
| 98                | E1-1970    | TWIST ANCHOR                     | GALVANIZED STEEL      |
| 99                | E9-4579    | I MULLION                        | 6063-T5               |
| 100               | E9-4521    | VENT GLASS STOP                  | 6063-T5               |
| 101               | PC-0806SS  | #8 X 3/8" PHMS TYPE AB           | STAINLESS STEEL       |
| 102               | E9-4587    | 4" SILL TRIM                     | 6063-T5               |
| 103               | E1-2003    | END DAM                          |                       |
| 104               | E2-0768    | JAMB BLOCK                       |                       |
| 105               | E1-1980    | BACKER PLATE                     | STAINLESS STEEL       |
| 106               | E1-1979    | HANDLE GASKET                    | RUBBER/BUTYL          |



Quality  
inspires™

YKK AP America Inc.

101 MARIETTA STREET NW, SUITE 2100  
ATLANTA, GA 30303  
PH: (478)277-1955 FAX: (678)838-6001

TITLE:  
YOW 225 NON-THERMAL ALUMINUM  
PROJECT OUT & PROJECT IN WINDOWS  
(NON-HVHZ) (NON-IMPACT)

BILL OF MATERIALS

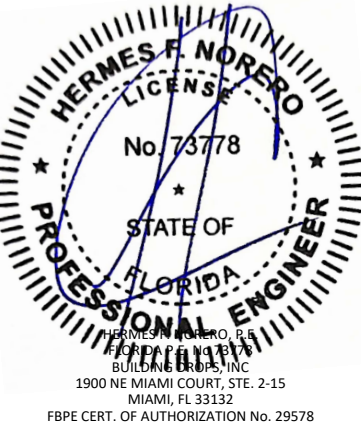
PREPARED BY:  
BUILDING DROPS, INC.  
1900 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



BUILDING DROPS

|                     |    |          |
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| REMARKS             | BY | DATE     |
| 7TH FBC CODE CHANGE | MS | 04.16.20 |
| 8TH FBC CODE CHANGE | SH | 06.01.23 |
| MISC. UPDATE        | SH | 02.26.24 |
| 9TH FBC CODE CHANGE | SH | 07.31.26 |

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



HERMES F. NORERO  
LICENSE  
No. 73778  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
HERMES F. NORERO, P.E.  
BUILDING DROPS, INC.  
1900 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL16313

DATE:

8.29.17

DWG. BY:

FM

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK243

SHEET:

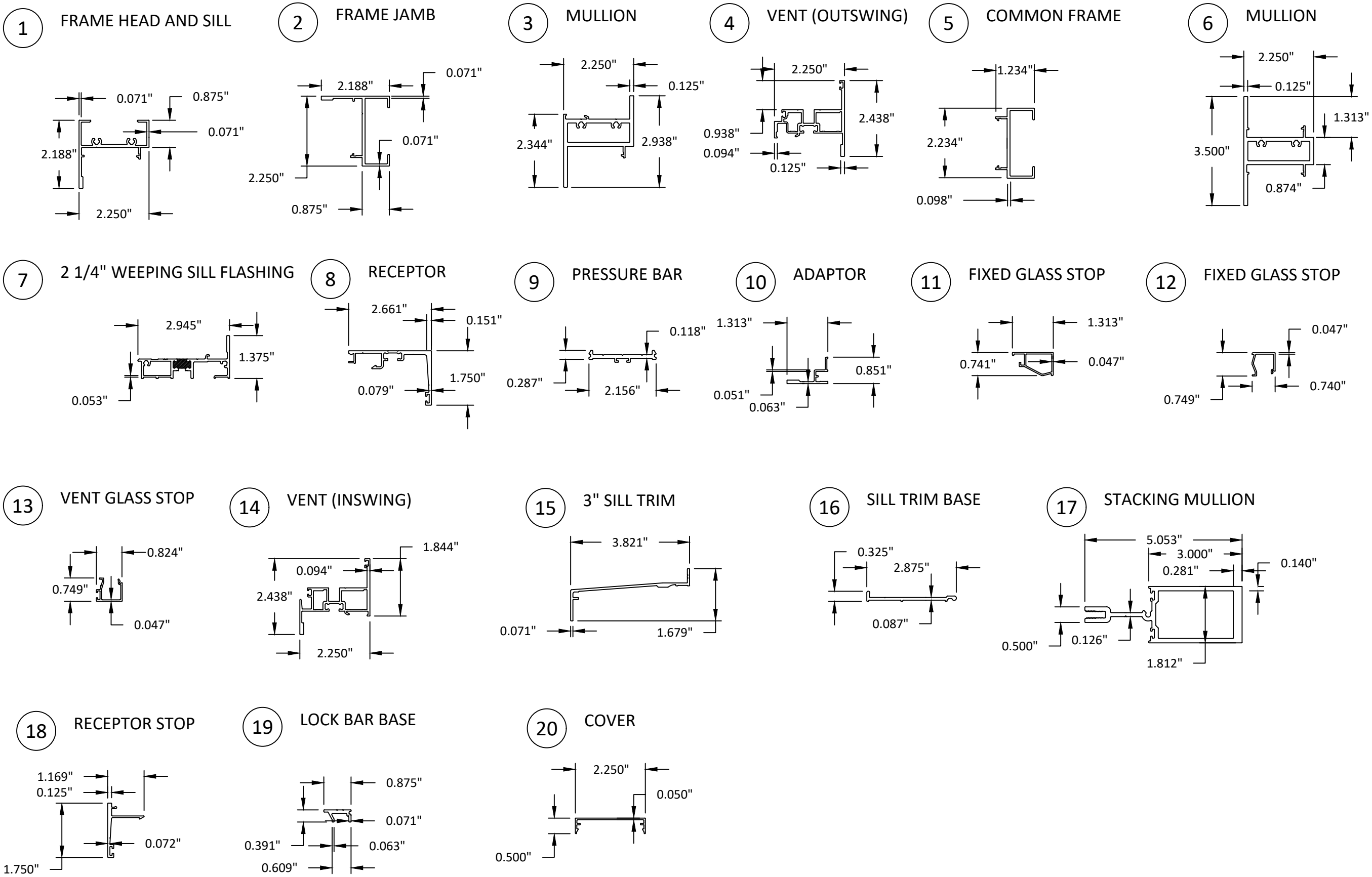
17

REV.

E

OF 19

c:\users\sebastianherrerros\desktop\Ykk 2026 ca\1161313\Ykk243.dwg  
7/31/2026 8:31 AM



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YKK AP America Inc.  
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PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225 NON-THERMAL ALUMINUM PROJECT OUT & PROJECT IN WINDOWS (NON-HVHZ) (NON-IMPACT)

COMPONENTS 1

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FL #:

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DATE: 8.29.17

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|-------------|--------------|
| DWG. BY: FM | CHK. BY: HFN |
|-------------|--------------|

SCALE: NTS

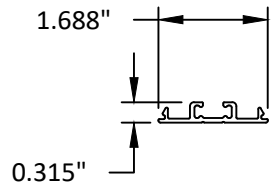
DWG. #: YKK243

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| SHEET: 18 | REV. E |
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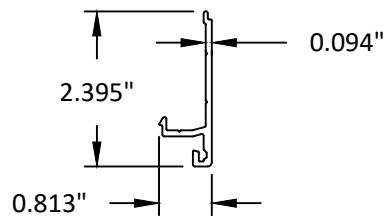
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7/31/2026 8:31 AM

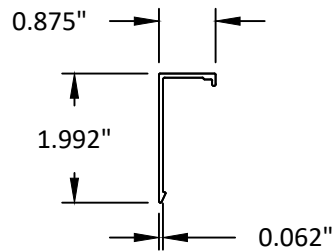
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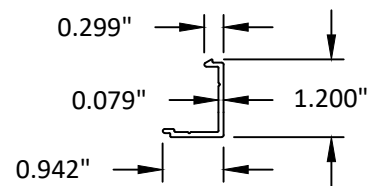
63 ANCHOR CLIP



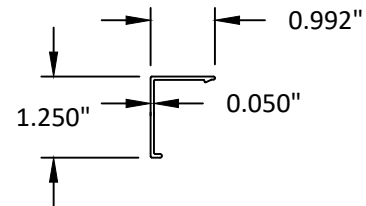
64 ANCHOR CLIP COVER



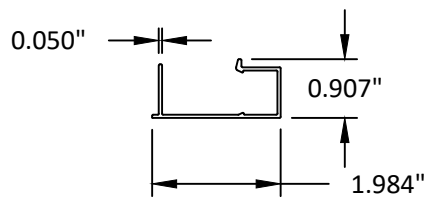
65 1 1/4\" X 1\" CLIP



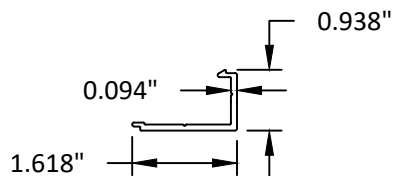
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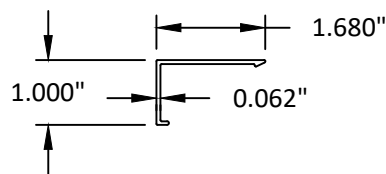
67 STRAP ANCHOR COVER



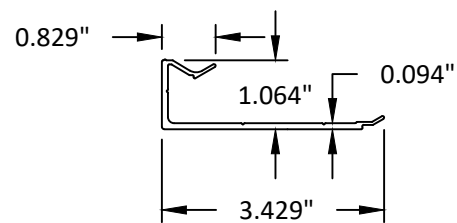
68 1\" X 1 11/16\" CLIP



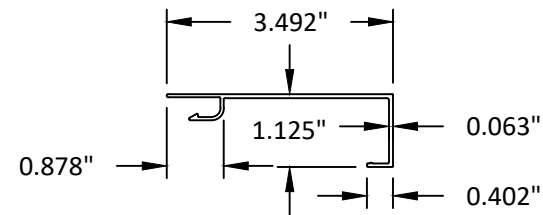
69 1\" X 1 11/16\" COVER



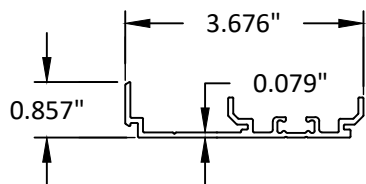
70 1 1/8\" X 3 1/2\" CLIP



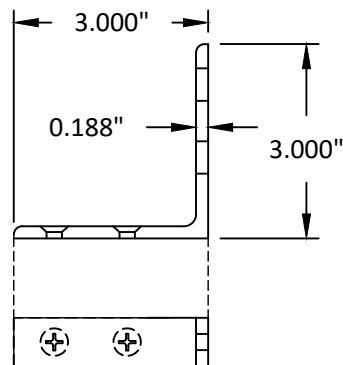
71 1 1/8\" X 3 1/2\" COVER



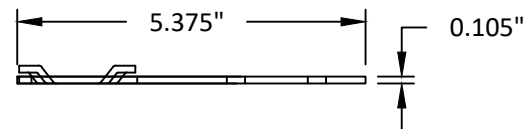
72 STRAP ANCHOR  
MINIMUM 4 1/2\" LENGTH



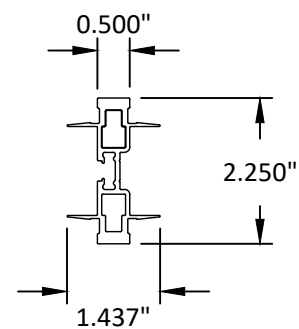
73 MULLION CLIP



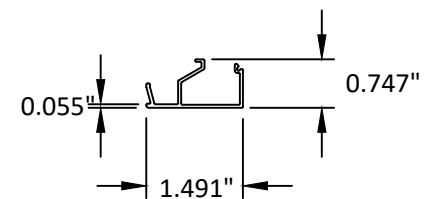
98 TWIST ANCHOR



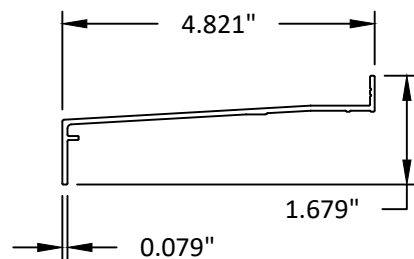
99 I MULLION



100 VENT GLASS STOP



102 4\" SILL TRIM



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COMPONENTS (CONT.)

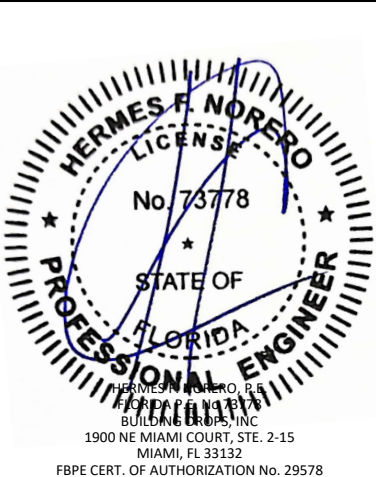
PREPARED BY:  
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|          |          |
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| DATE:    | 8.29.17  |
| DWG. BY: | CHK. BY: |
| FM       | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | YKK243   |
| SHEET:   | REV.     |
| 19       | E        |
| OF 19    |          |