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INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION UNLESS OTHERWISE SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 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.
- 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.
- FOR INSTALLATION INTO WOOD FRAMING USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- 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.
- 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.
- 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.
 - 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).
- 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.
 - 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.
- INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEMS.

YKK AP America Inc.

YOW 225 TU THERMAL ALUMINUM

PROJECT OUT & PROJECT IN WINDOWS

(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/A440-22
- 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 14 FOR GLAZING DETAILS.
- GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS OF THE FBC, CHAPTER 24.
- GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
- 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.

NOTE:
1. MAX SINGLE SIZE AS-TESTED VENT SIZE LISTED, SEE SHEET 4 & 5 FOR APPROVED SIZES, HARDWARE AND DESIGN PRESSURES, AND SHEET 2 FOR QUALIFIED MULTI UNIT MULLED CONFIGURATIONS.



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

PREPARED BY:
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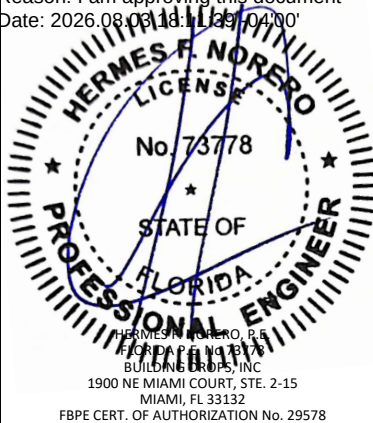


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REMARKS	BY	DATE
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
MISC. UPDATES	SH	02.26.24
9TH FBC CODE CHANGE	SH	07.31.26

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Reason: I am approving this document
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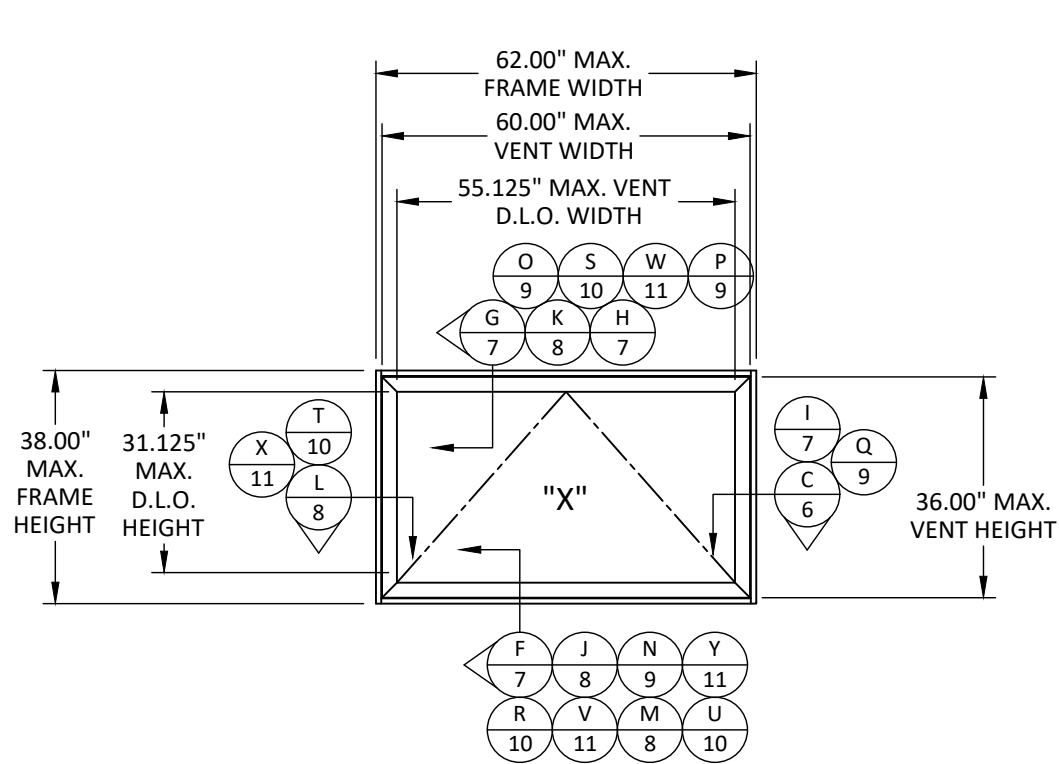
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL16313
DATE:	8.29.17
DWG. BY: FM	CHK. BY: HFN
SCALE:	NTS
DWG. #:	YKK244
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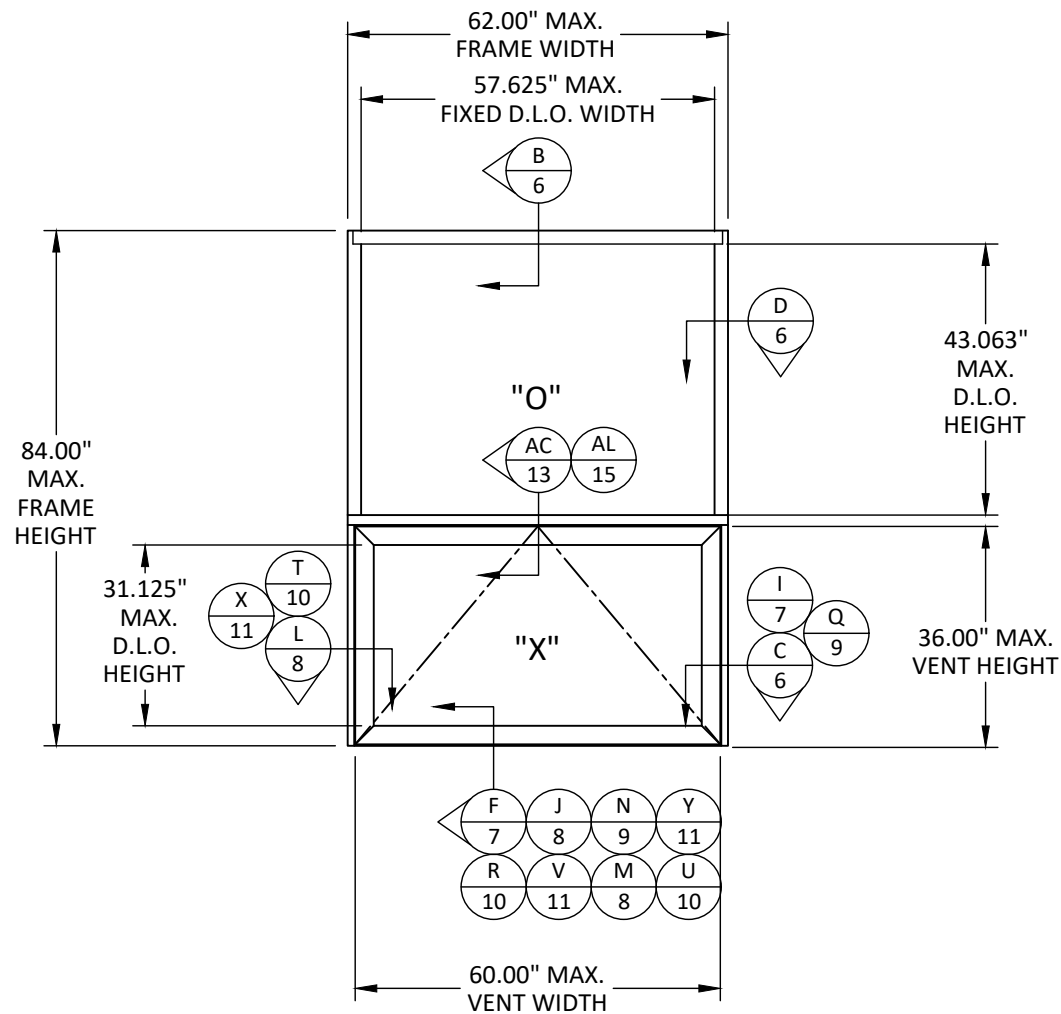
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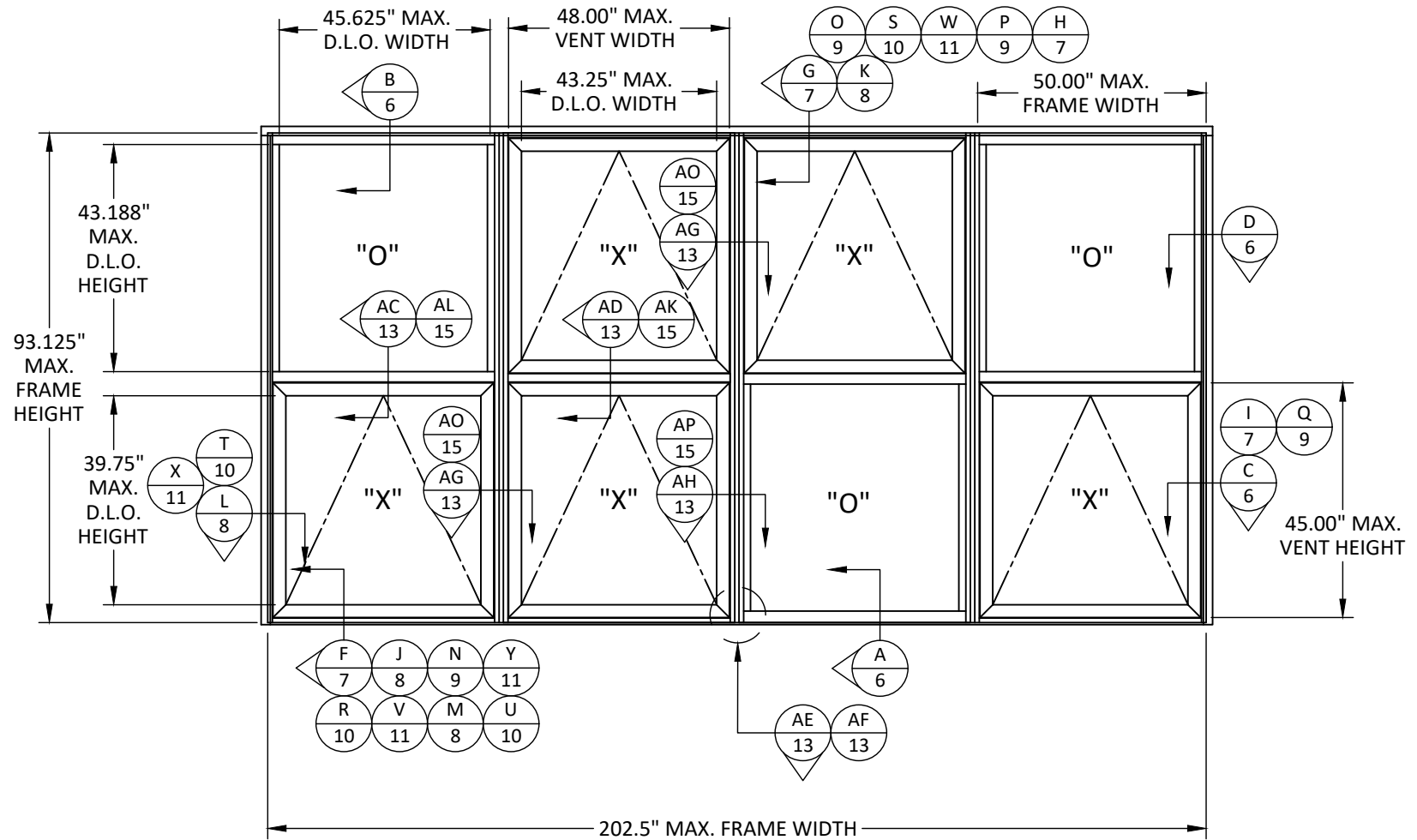


ELEVATION



ELEVATION

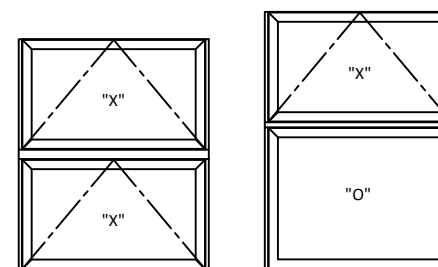
DP +/- 65 PSF



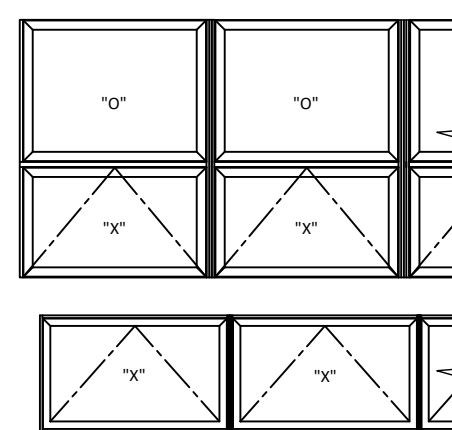
ELEVATION

DP +/-65 PSF

QUALIFIED CONFIGURATIONS



NOTE:
UNITS MAY UTILIZE INTEGRAL MULLS FOR FIXED OVER PROJECTED, PROJECTED OVER FIXED, OR PROJECTED OVER PROJECTED CONFIGURATIONS. ADDITIONALLY, ALTERNATE WINDOW TYPES MAY BE MULLED WITH APPROVED WINDOWS. MAX. VENT & FIXED LITE SIZES SHALL NOT BE EXCEEDED AS SHOWN HEREIN.



NOTE:
UNITS MAY BE MULLED SIDE BY SIDE IN COMBINATIONS OF PROJECTED/FIXED, PROJECTED/CASEMENT, AND/OR OTHER APPROVED WINDOW TYPES (SEE APPROVED INSTALLATION INSTRUCTIONS YKK247 & YKK249). MULLS SHALL BE AS SHOWN HEREIN OR APPROVED UNDER SEPARATE APPROVAL. FIXED WINDOWS AND OTHER ALTERNATE WINDOW TYPES UNDER SEPARATE APPROVAL.

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

NOTE: ELEVATIONS SHOWN INCLUDE PROJECT IN AND PROJECT OUT WINDOWS . DETAILS SHOWN ARE REPRESENTATIVE OF BOTH APPLICATIONS.

NOTE: MAX. DIMENSIONS SHOWN MAY EXCLUDE RECEPTOR DIMENSIONS. SEE DETAILS SHEET 6 FOR O.A. DIMENSION LOCATIONS.



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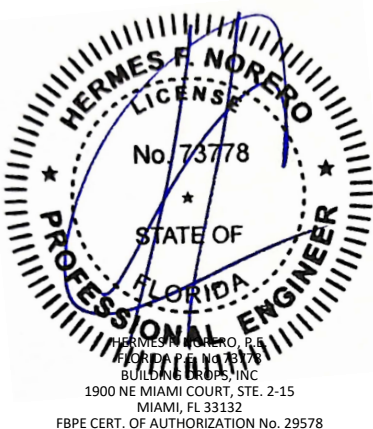
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SHEET: 2

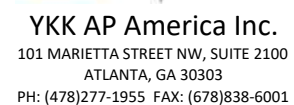
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DESIGN PRESSURE (+/- PSF)	MIN. QTY REQUIRED AT EA. END OF VERT. MULL*	MIN. QTY REQUIRED AT SILL OF VERT. MULL FOR RECEPTOR INSTALLATION**
40	2	4
65	4	6

NOTE:
* QUANTITY OF ANCHORS IS THE MINIMUM REQUIRED QUANTITY OF ANCHORS ADJACENT TO EA. SIDE OF STACK MULLION. ANCHORS SHALL BE SPACED 3" O.C. TO EA. SIDE OF MULL. APPLICABLE TO RECEPTOR AT HEAD ONLY, CLIP, STRAP, TRIM/CLIP AND THROUGH FRAME INSTALLATIONS.
** QUANTITY OF ANCHORS IS THE MINIMUM REQUIRED QUANTITY OF ANCHORS THROUGH THE RECEPTOR SILL (SEE TYP. DETAIL A/6) ADJACENT TO EA. SIDE OF STACK MULL. ANCHORS SHALL BE SPACED 3" O.C. TO EA. SIDE OF MULL.

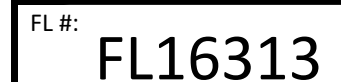
NOTE: ANCHOR LAYOUT SHOWN INCLUDE PROJECT IN AND PROJECT OUT WINDOWS.



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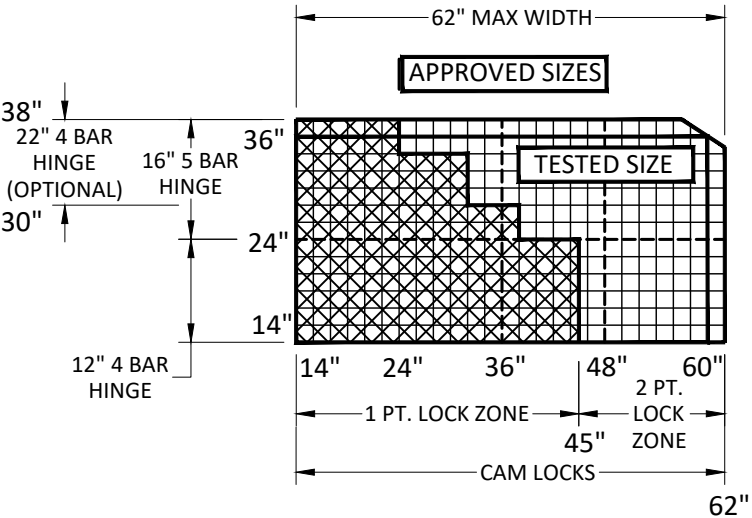
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APPROVED VENT SIZES
PROJECT IN (STANDARD HARDWARE)



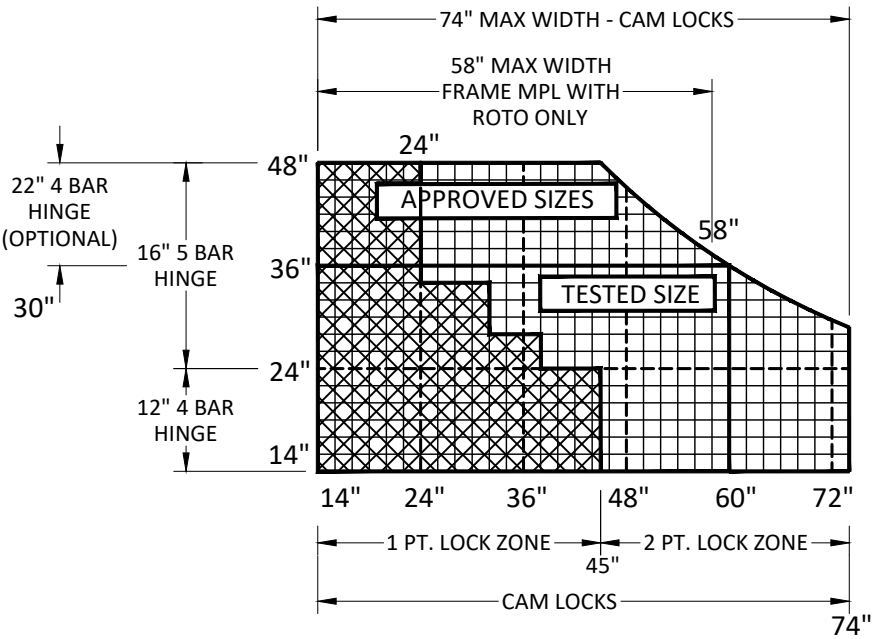
HARDWARE SCHEDULE
PROJECT IN - DP +/-65 PSF

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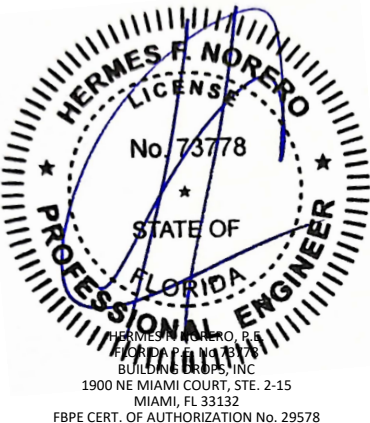
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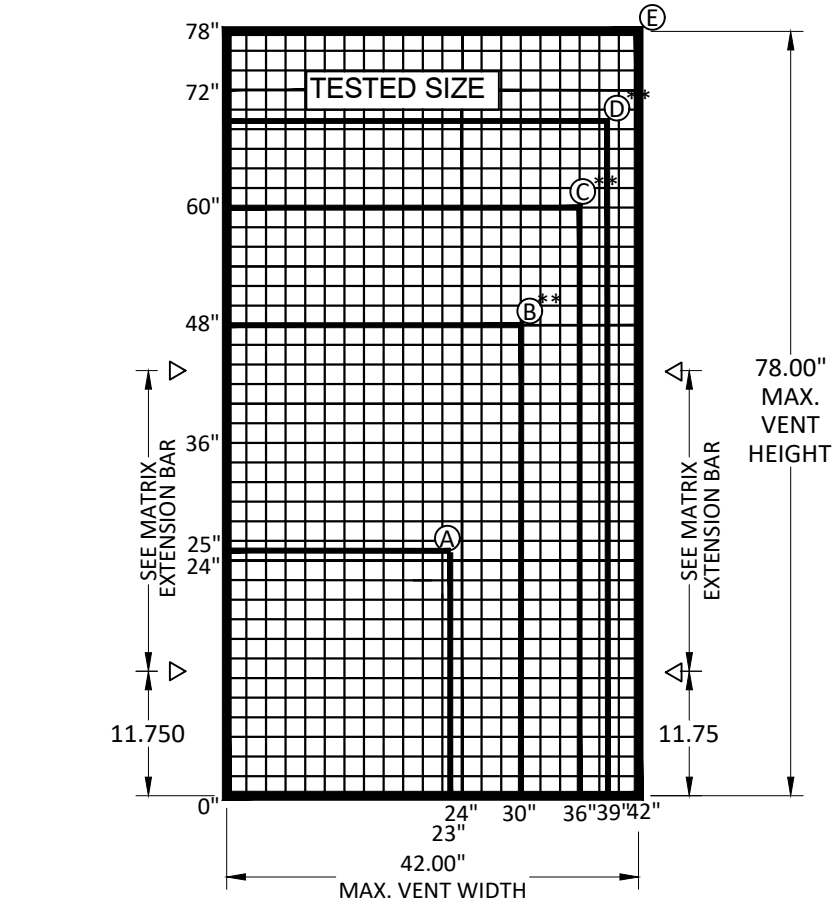
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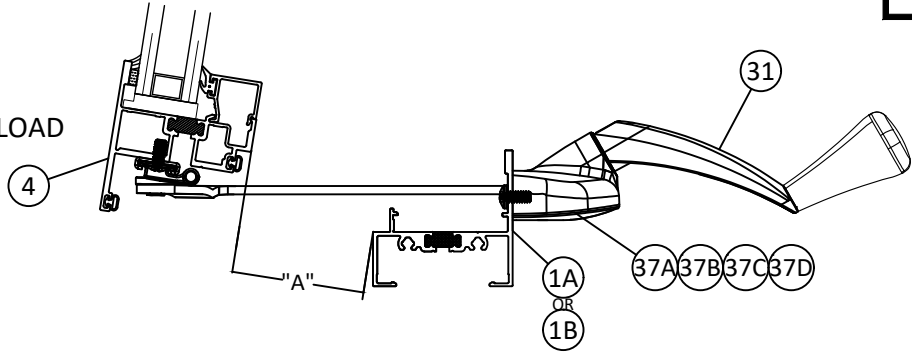
ACCESSIBLE WINDOW SYSTEM - (AAMA 513-14)
VENT SIZES SHOWN

APPROVED VENT SIZES
PROJECT OUT WINDOW (ACCESSIBLE HARDWARE)



LOCK POINT

APPROVED VENT SIZES
ELEVATION
MAX. VENT SIZES BASED ON DESIGN LOAD
RESTRICTIONS



ROTARY OPERATOR SCHEDULE

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

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 TU - 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 TU- 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 TU- 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 TU- 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 TU - 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



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PH: (478)277-1955 FAX: (678)838-6001

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

APPROVED SIZES &
HARDWARE SCHEDULE

PREPARED BY:

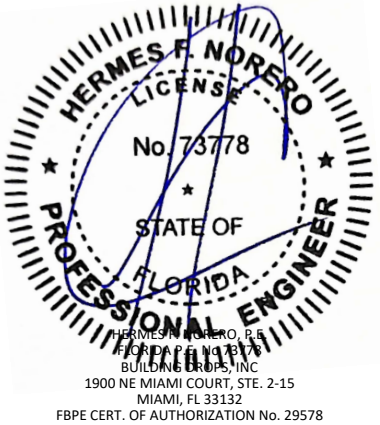
BUILDING DROPS, INC.

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MIAMI, FL 33132
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FAX: (954)744-4738
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8TH FBC CODE CHANGE	SH	06.01.23
MISC. UPDATES	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. #: YKK244

SHEET:

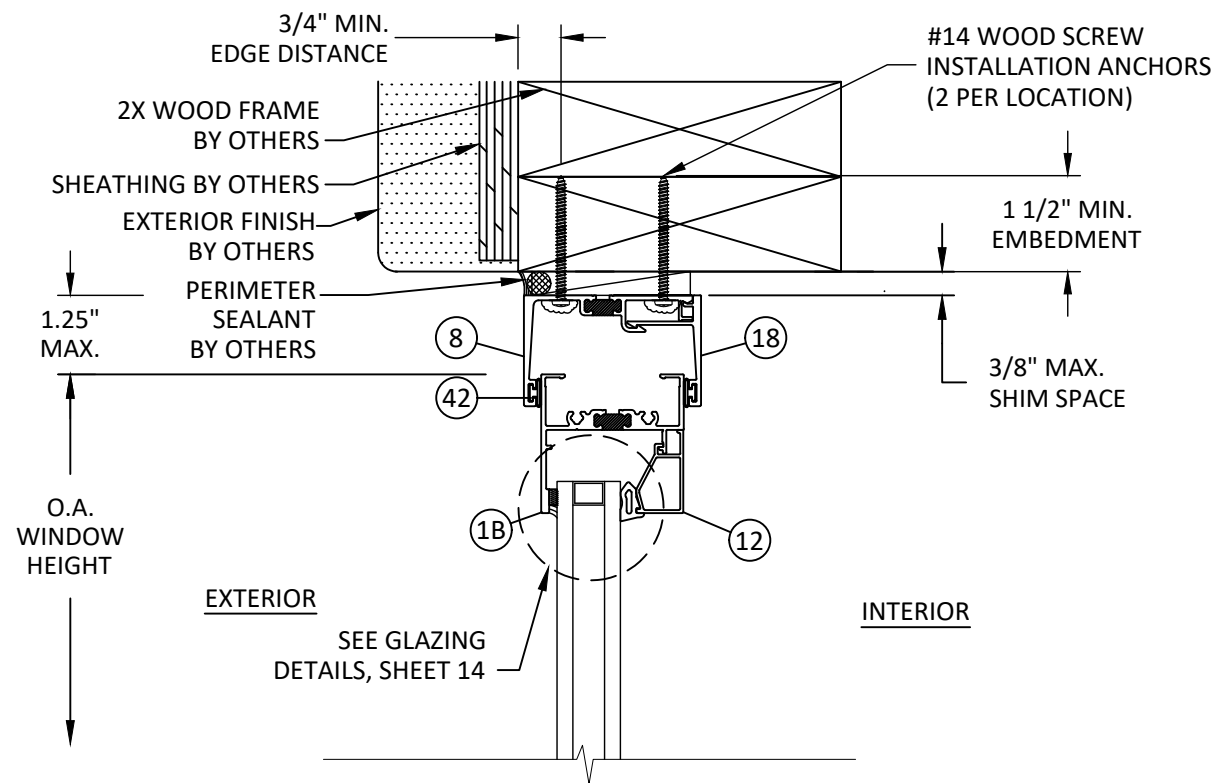
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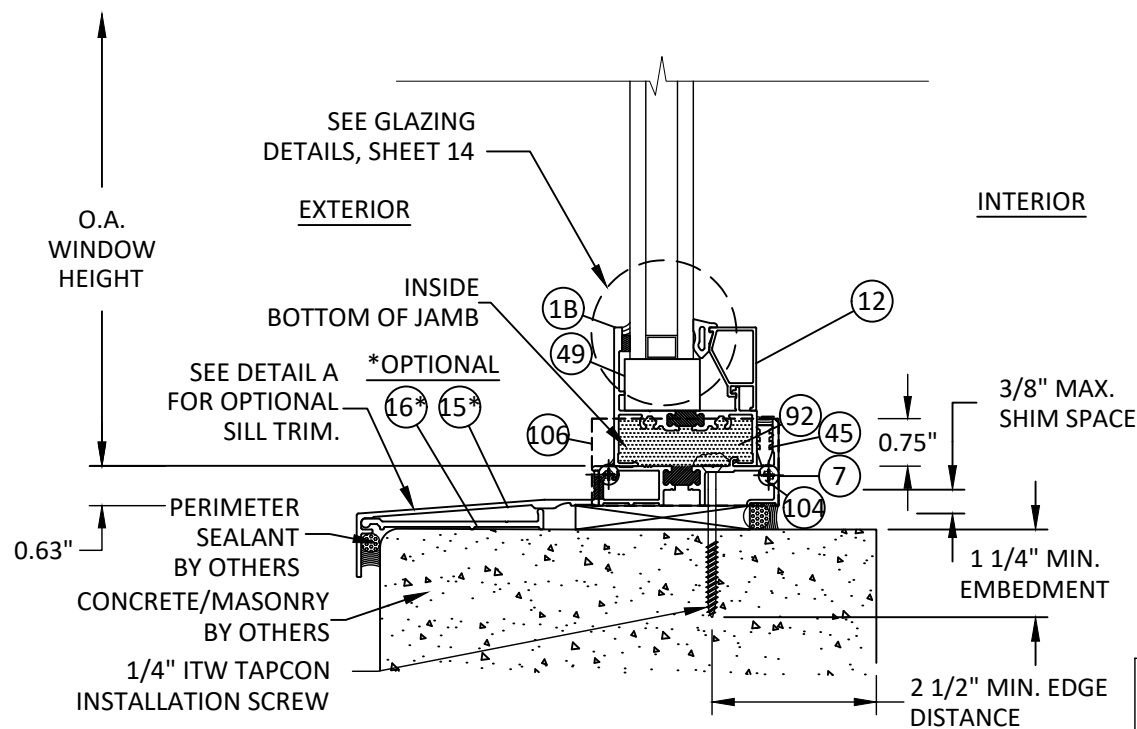
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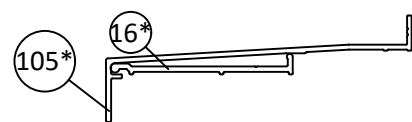


B
6 **VERTICAL SECTION**
FIXED HEAD - 2X WOOD FRAME
INT. SET RECEPTOR - TYP. "FIXED"

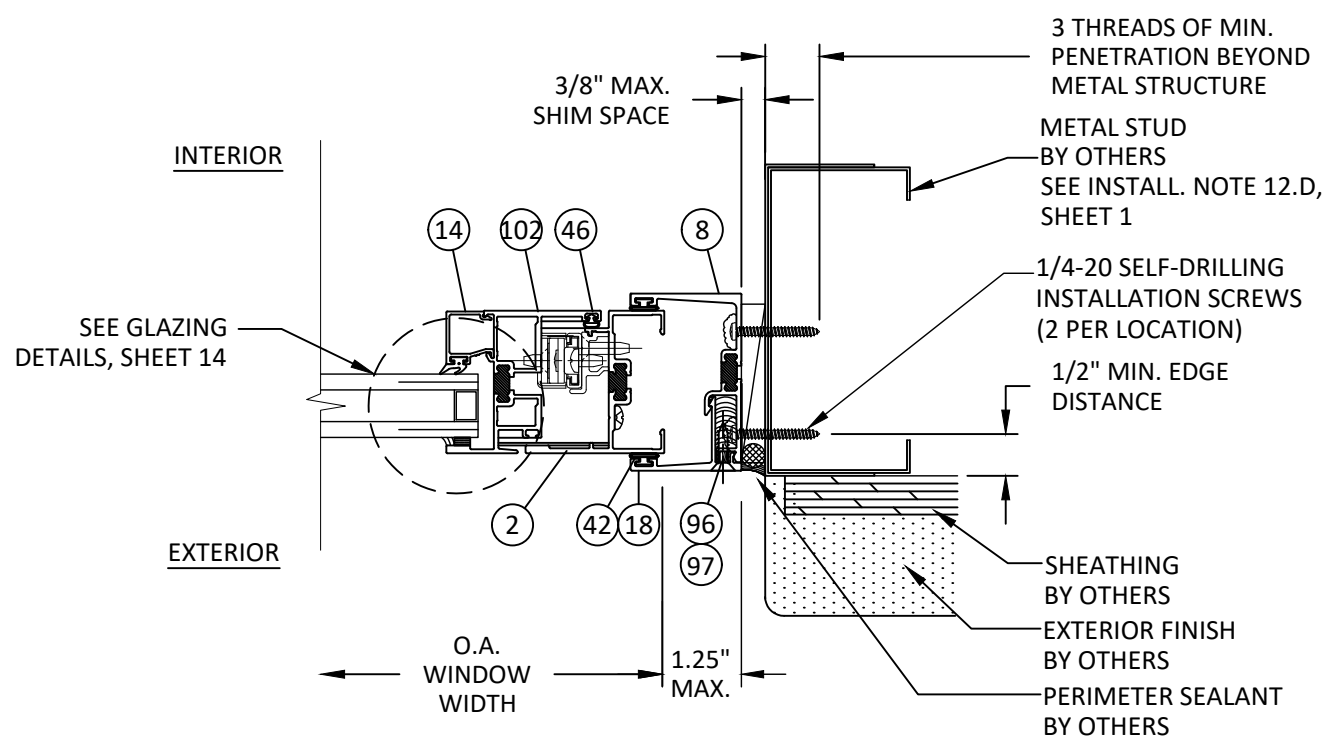
*ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



A
6 **VERTICAL SECTION**
FIXED SILL - CONCRETE/MASONRY
SILL FLASHING - TYP. "FIXED"

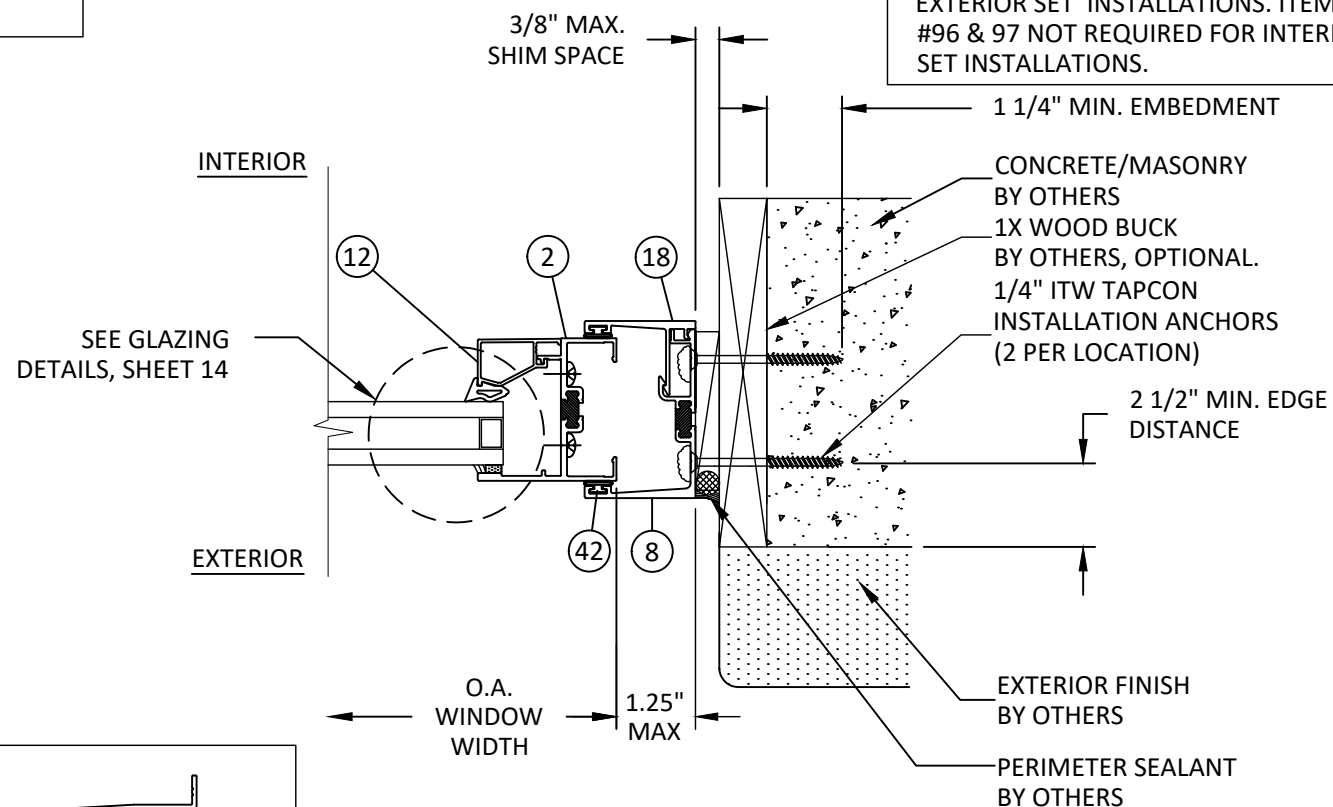


**OPTIONAL SILL TRIM
DETAIL A**



C
6 **HORIZONTAL SECTION**
VENT JAMB - METAL STUD FRAME
EXT. SET RECEPTOR - TYP. - INSWING

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



D
6 **HORIZONTAL SECTION**
FIXED JAMB - 1X/CONCRETE/MASONRY
INT. SET RECEPTOR - TYP.



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

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

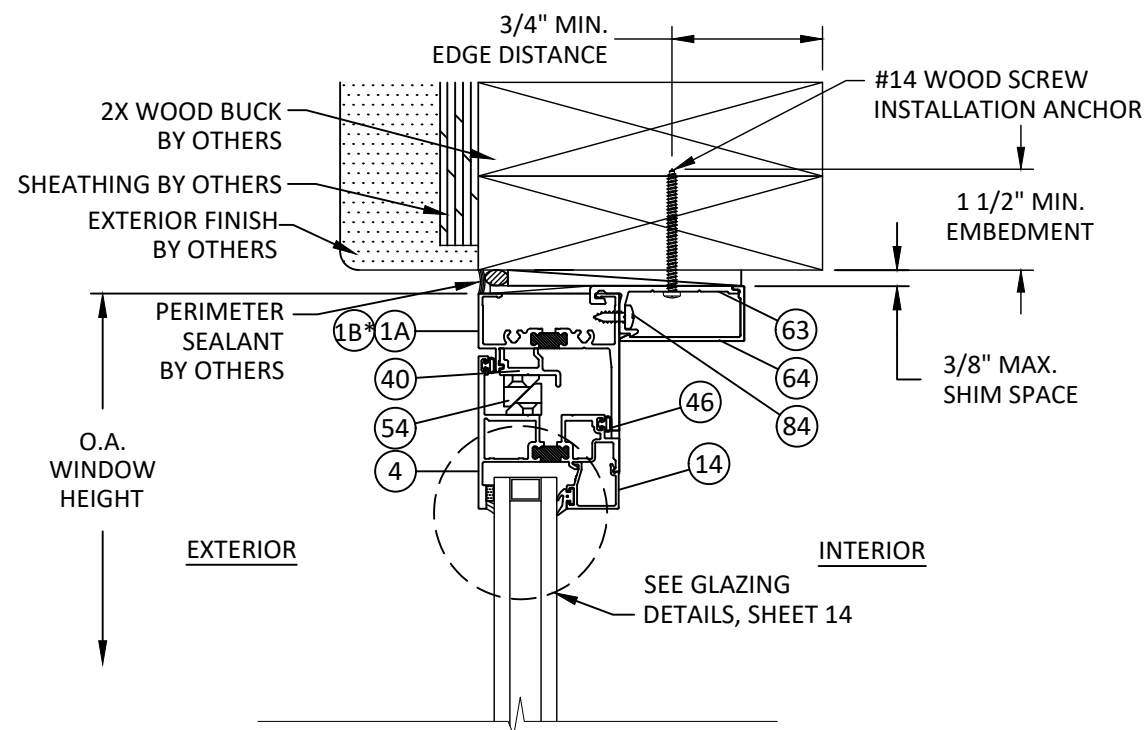
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MISC. UPDATES	SH	02.26.24
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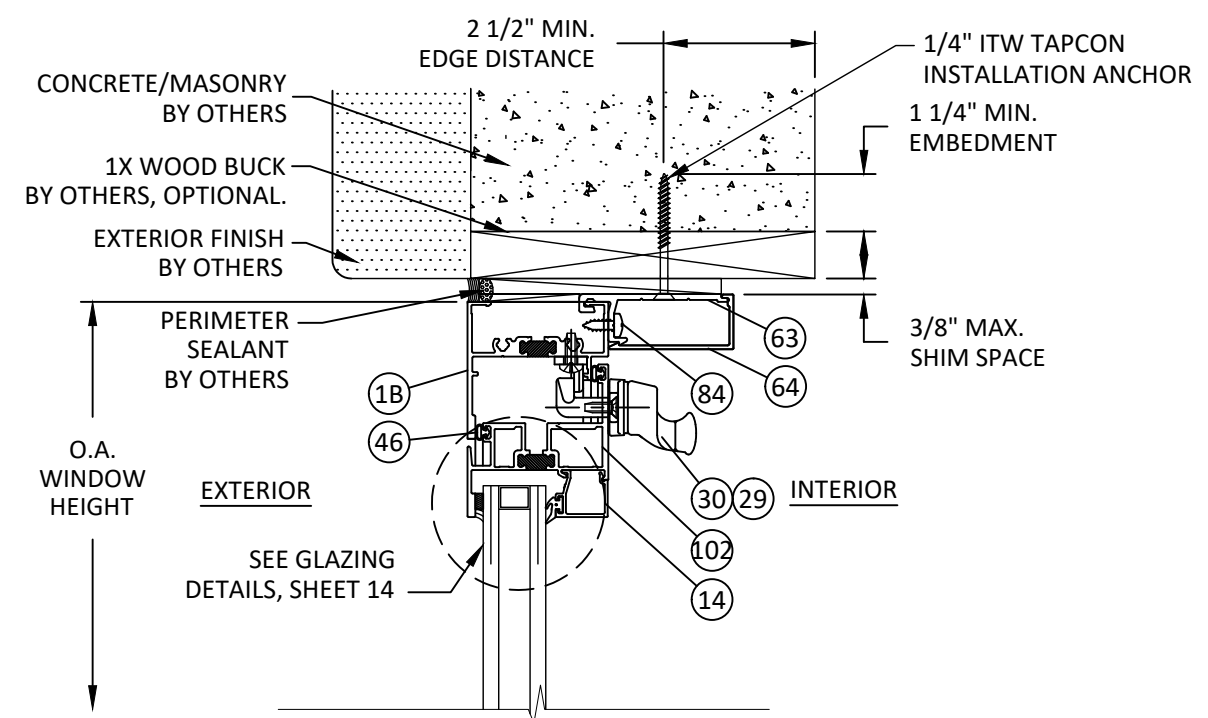
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DATE:	8.29.17
DWG. BY:	FM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK244
SHEET:	6
REV.	E

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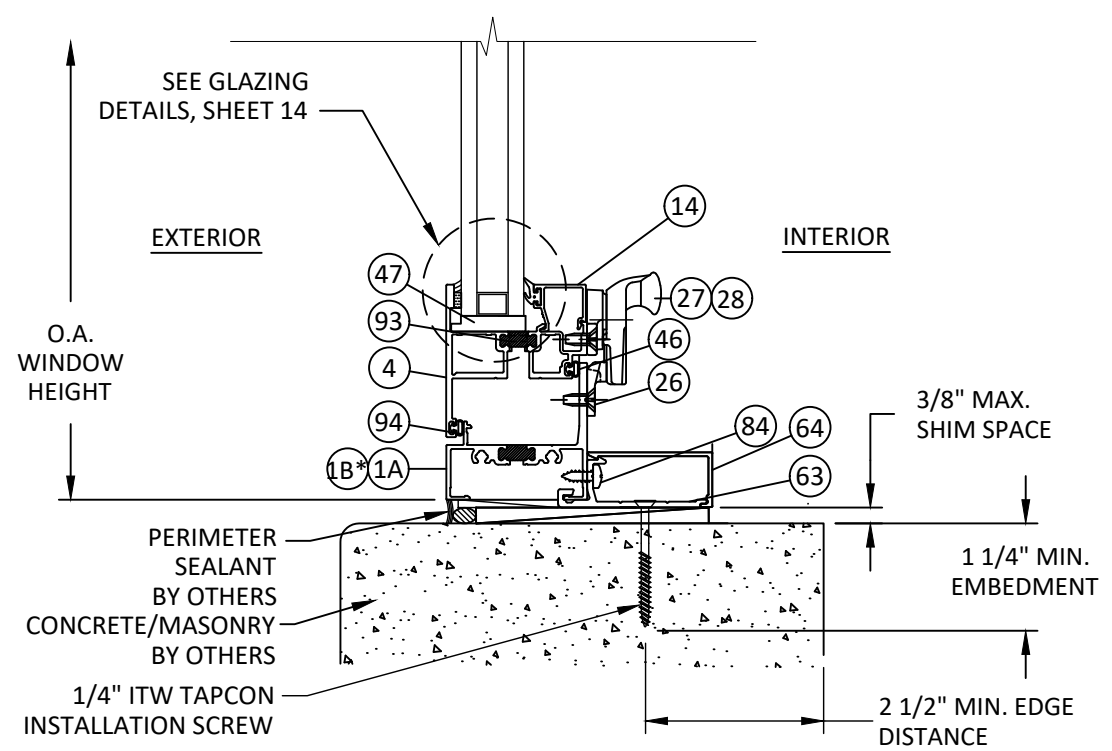


G
7 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
CLIP ANCHOR - TYP. "OUTSWING"

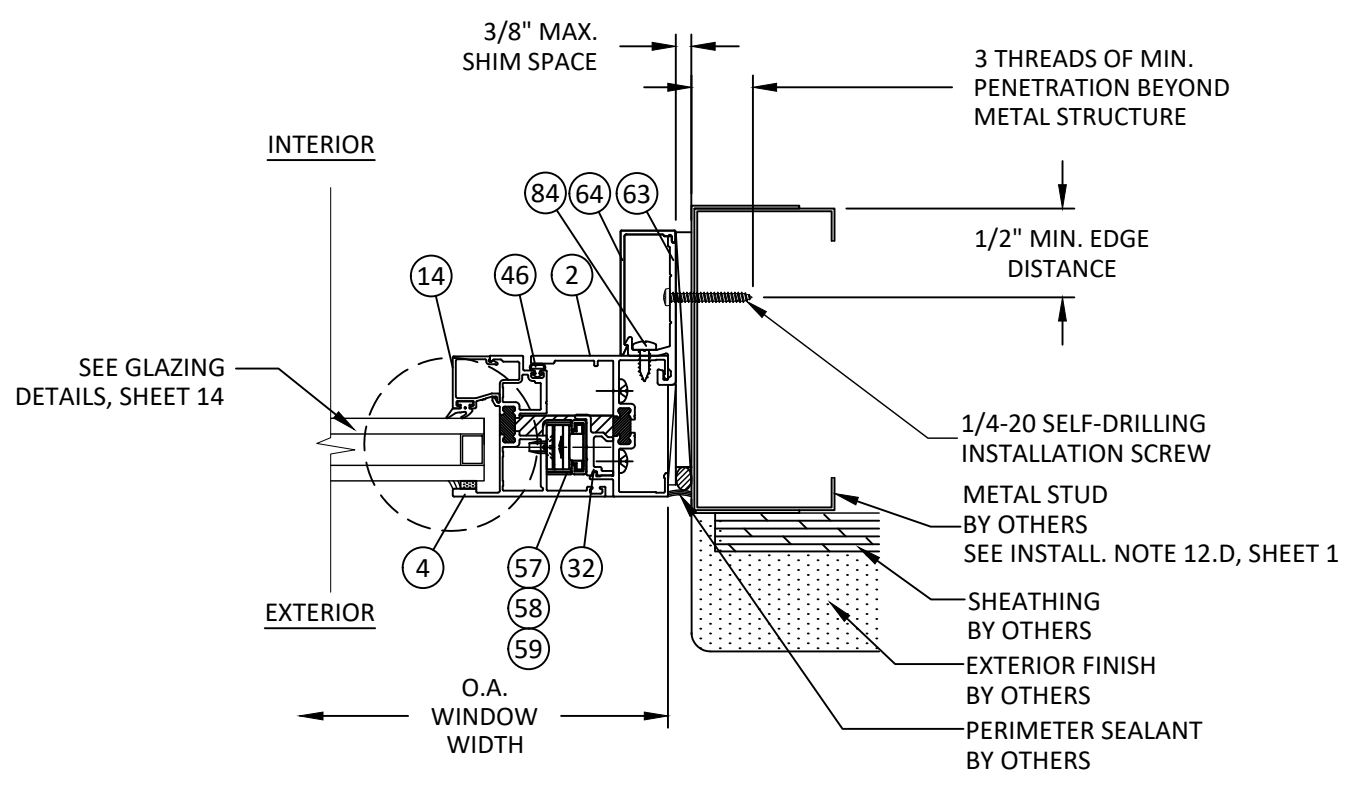
*ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



H
7 **VERTICAL SECTION**
VENT HEAD - 1X/CONCRETE/MASONRY
CLIP ANCHOR - TYP. "INSWING"



F
7 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
CLIP ANCHOR - TYP. "OUTSWING"



I
7 **HORIZONTAL SECTION**
VENT JAMB - METAL STUD FRAME
CLIP ANCHOR - TYP. "OUTSWING"

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ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

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

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

B.D. BUILDING DROPS

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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**

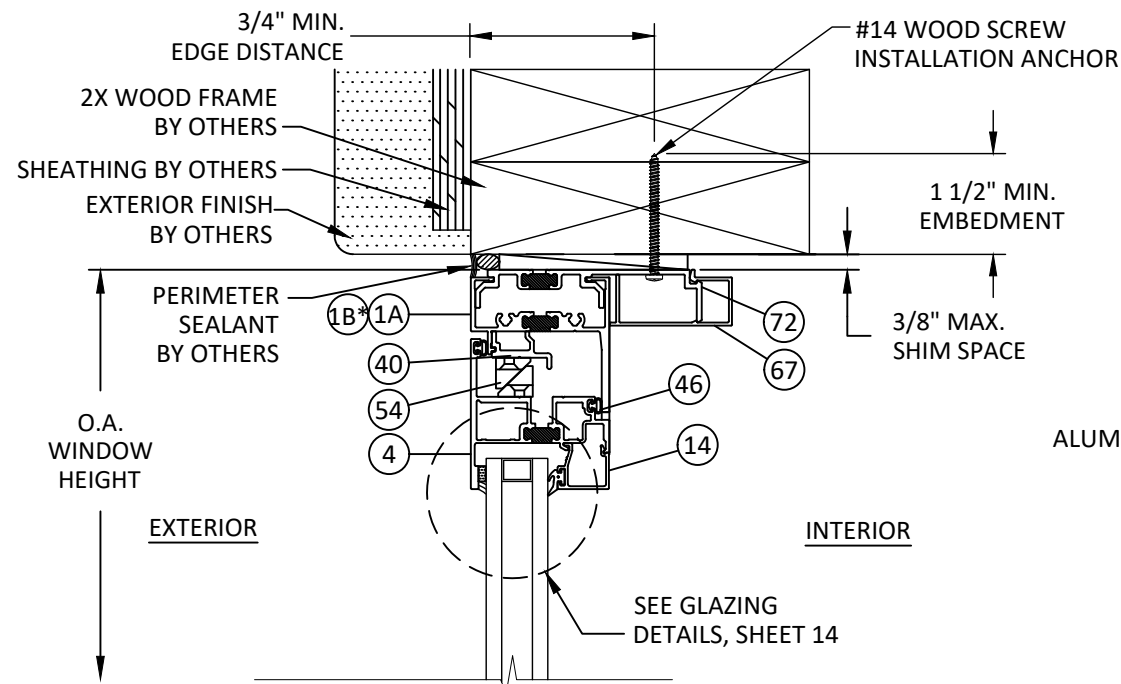
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SHEET: **7** REV. **E**

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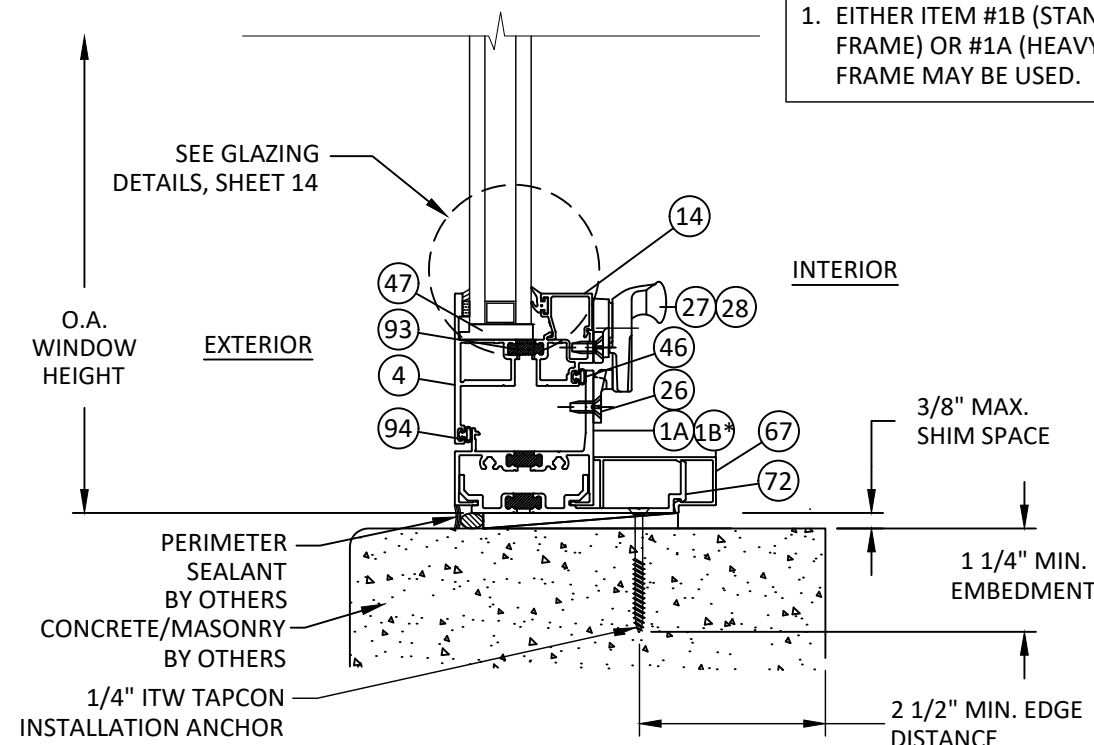
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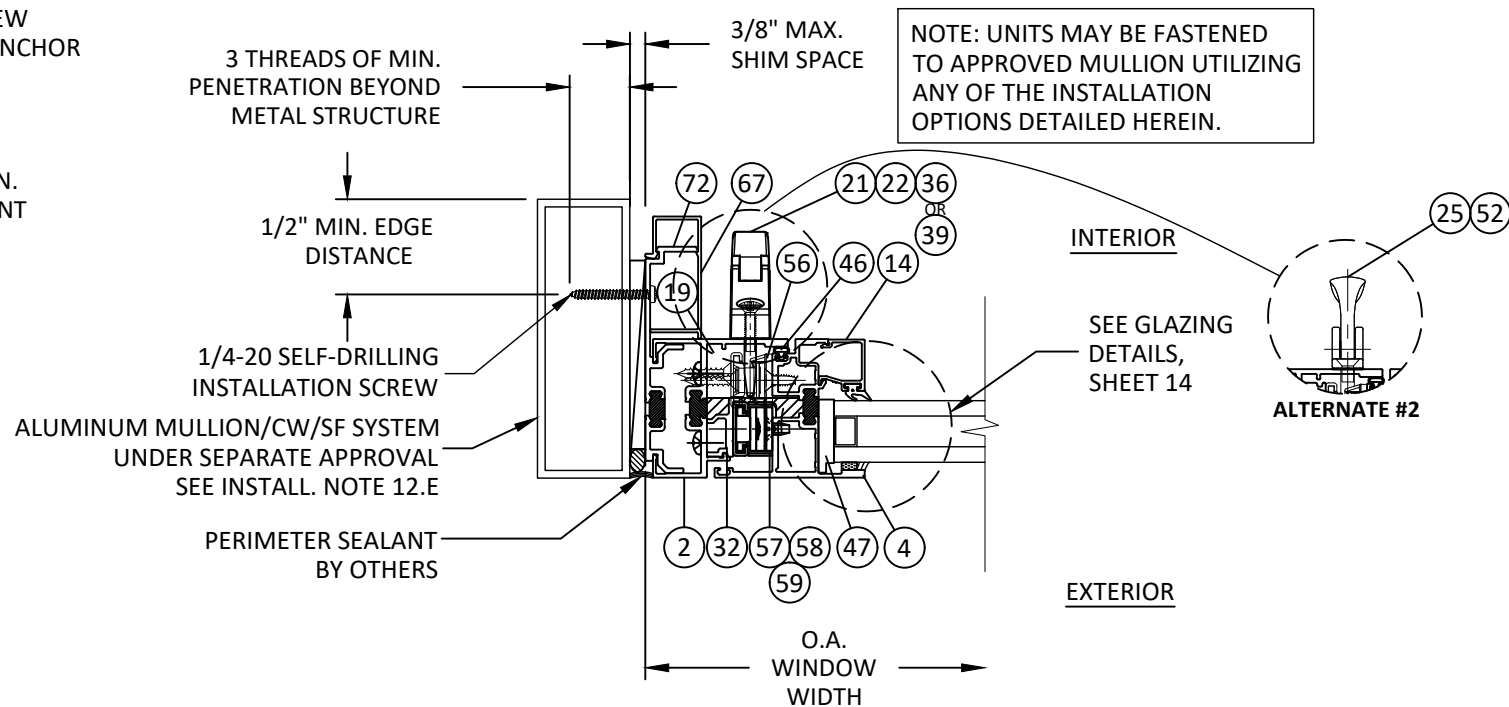


K
8 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP. "OUTSWING"

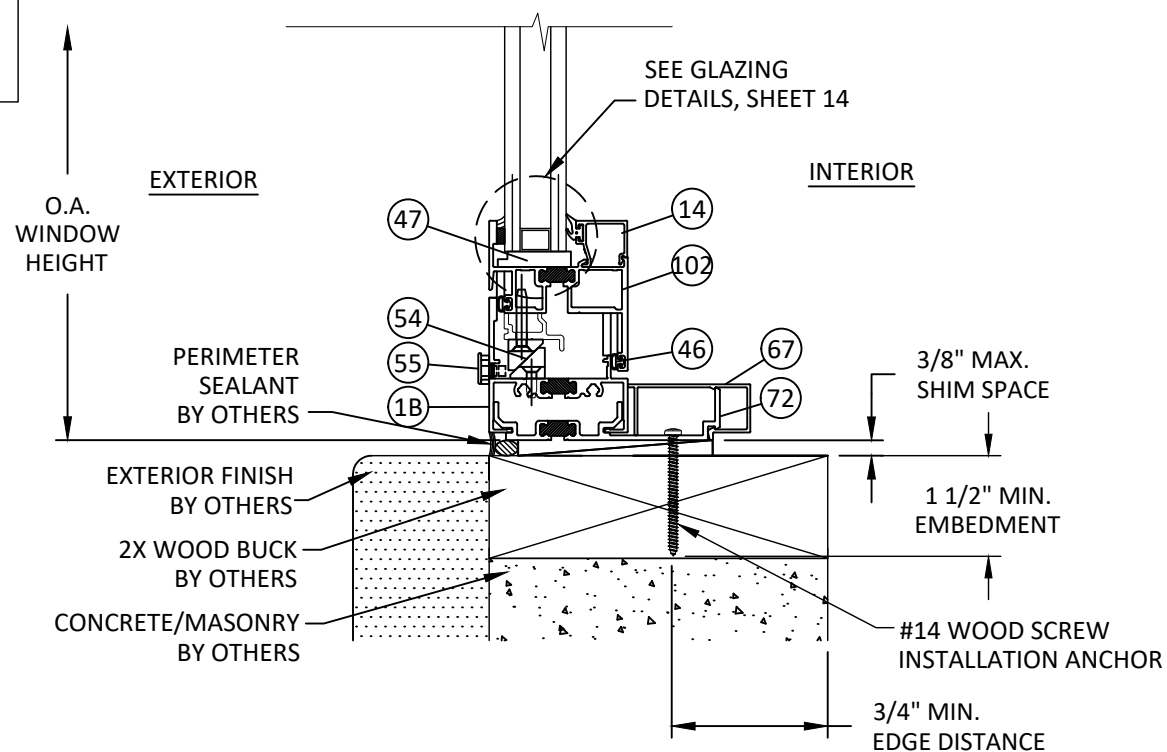
*ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



J
8 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
STRAP ANCHOR - TYP. "OUTSWING"



L
8 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
STRAP ANCHOR - TYP. "OUTSWING"
ALTERNATE #1



M
8 **VERTICAL SECTION**
VENT SILL - 2X WOOD BUCK
STRAP ANCHOR - TYP. "INSWING"



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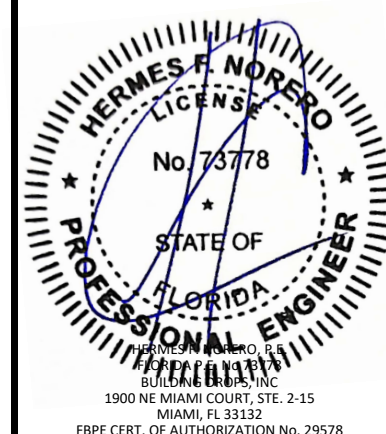
TITLE:
YOW 225 THERMAL ALUMINUM
PROJECT OUT & PROJECT IN WINDOWS
(NON-HVHZ) (NON-IMPACT)
STRAP INSTALLATION
DETAILS

PREPARED BY:
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MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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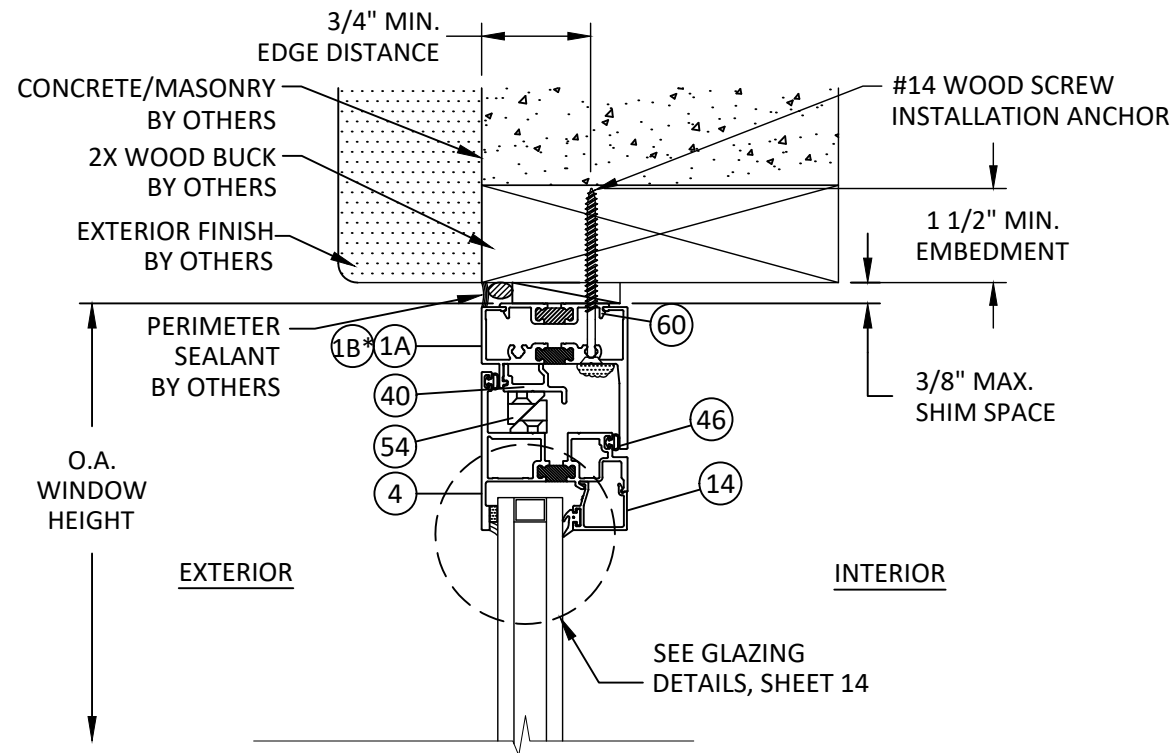
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SHEET: **8** REV. **E**

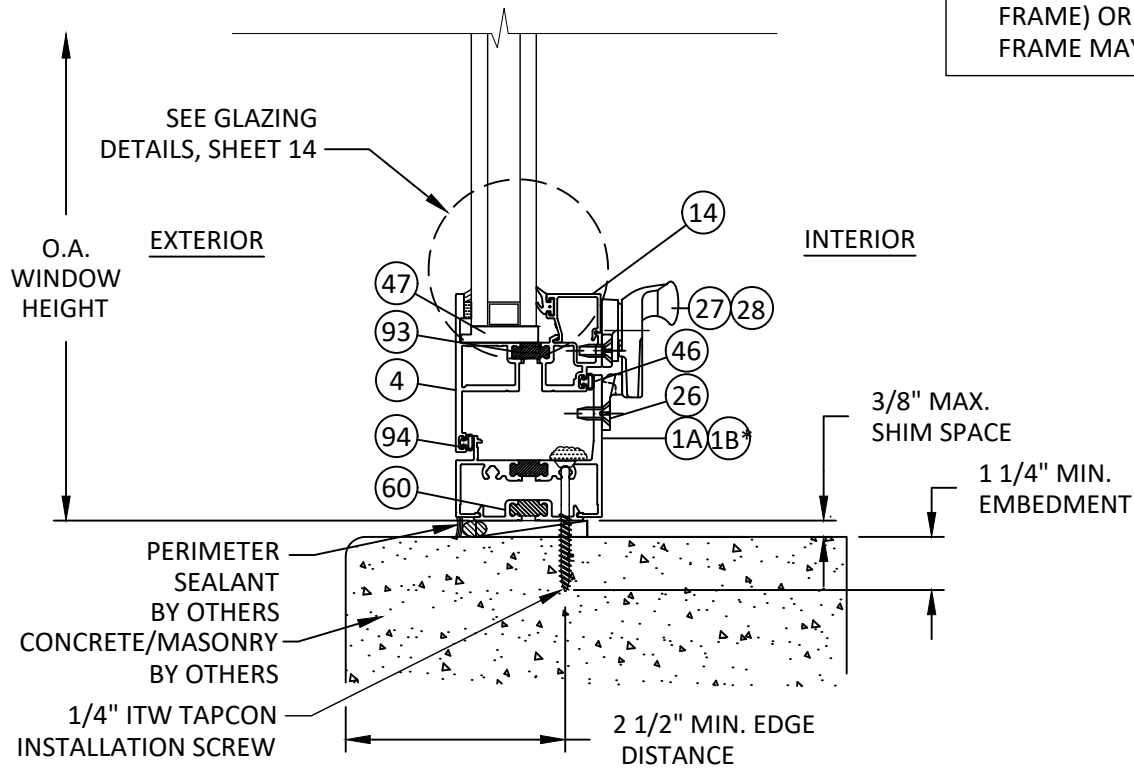
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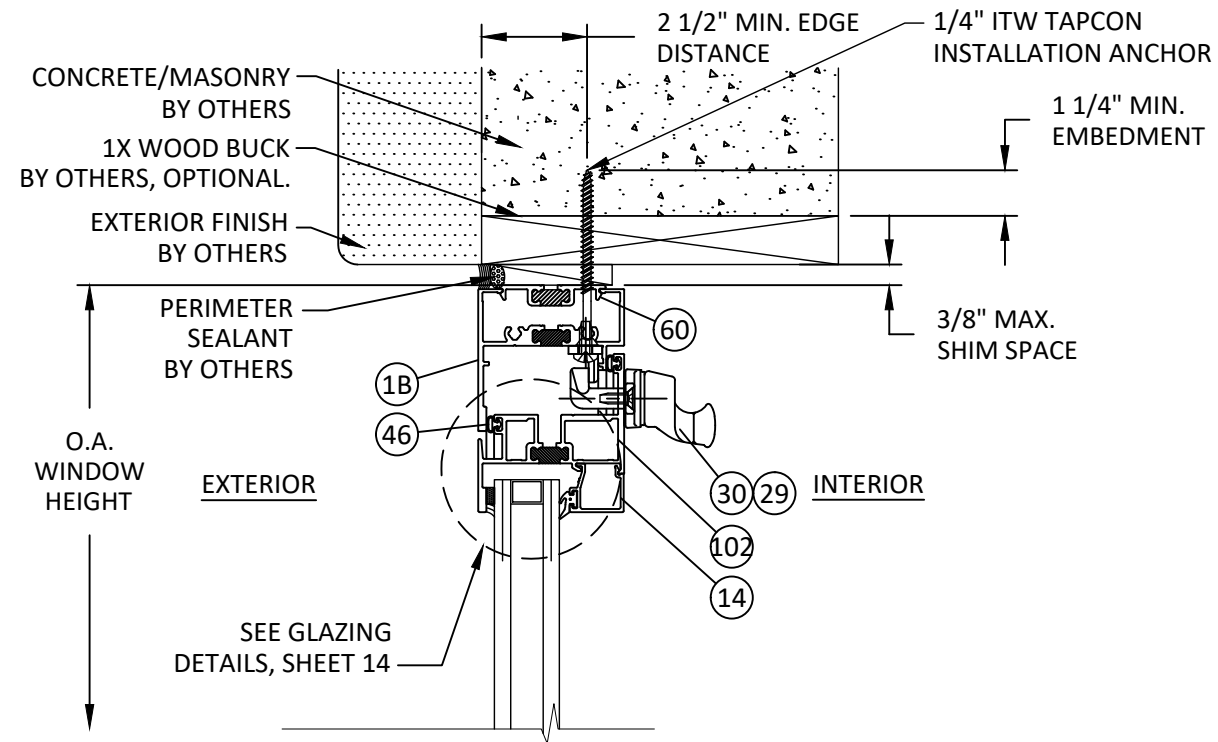


09 VERTICAL SECTION
VENT HEAD - 2X WOOD BUCK
THROUGH FRAME - TYP. "OUTSWING"

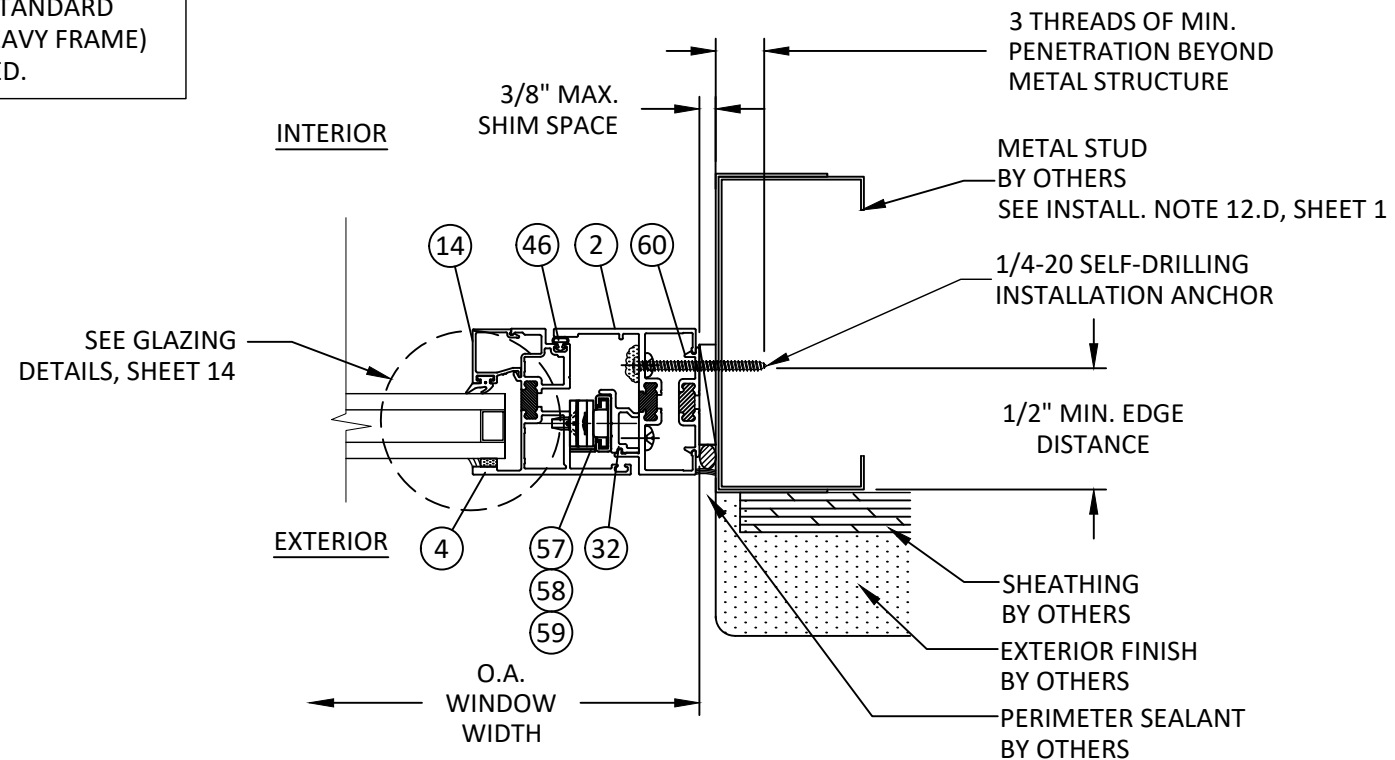
- *ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



N9 VERTICAL SECTION
VENT SILL - CONCRETE/MASONRY
THROUGH FRAME - TYP. "OUTSWING"



P9 VERTICAL SECTION
VENT HEAD - 1X/CONCRETE/MASONRY
THROUGH FRAME - TYP. "INSWING"



Q9 HORIZONTAL SECTION
VENT JAMB - METAL STUD FRAME
THROUGH FRAME - TYP. "OUTSWING"



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ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

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

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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MISC. UPDATES	SH	02.26.24
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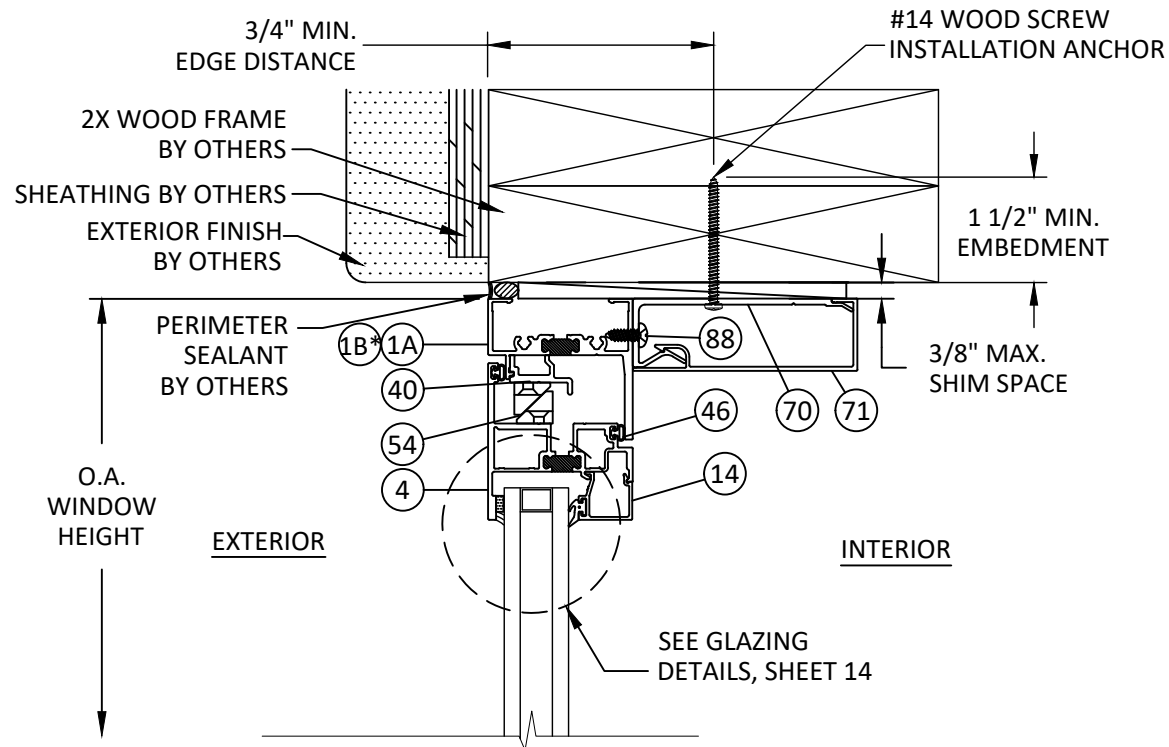
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK244
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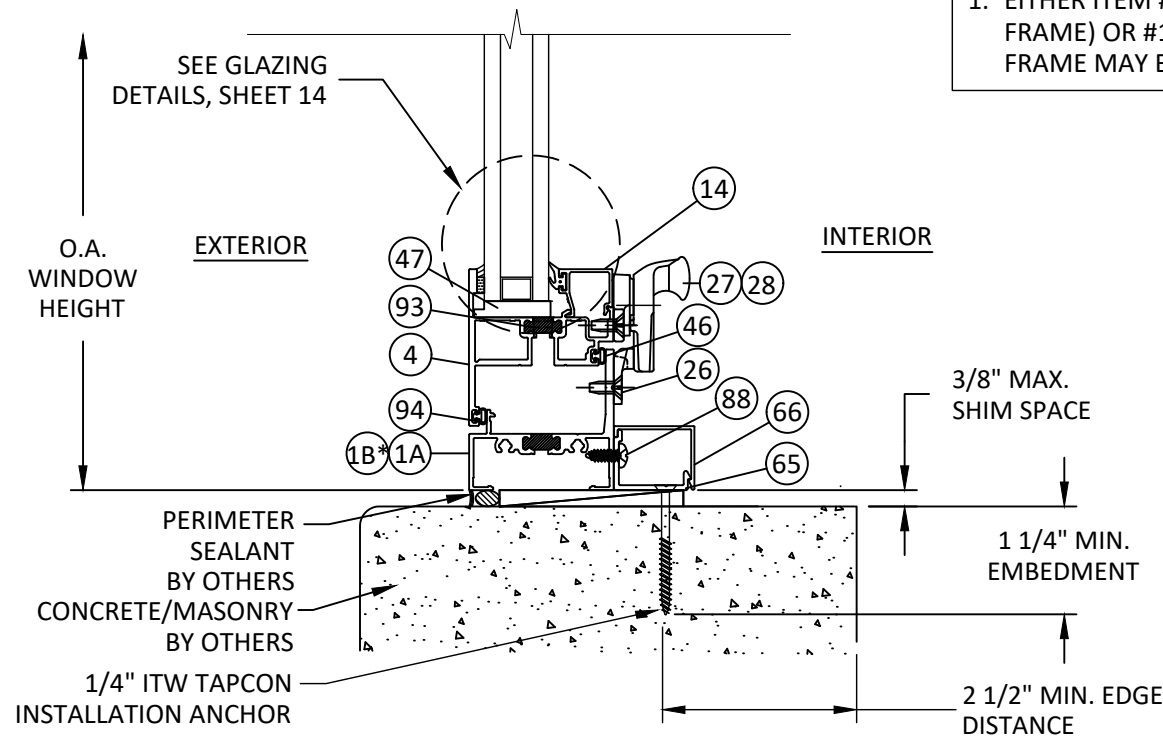
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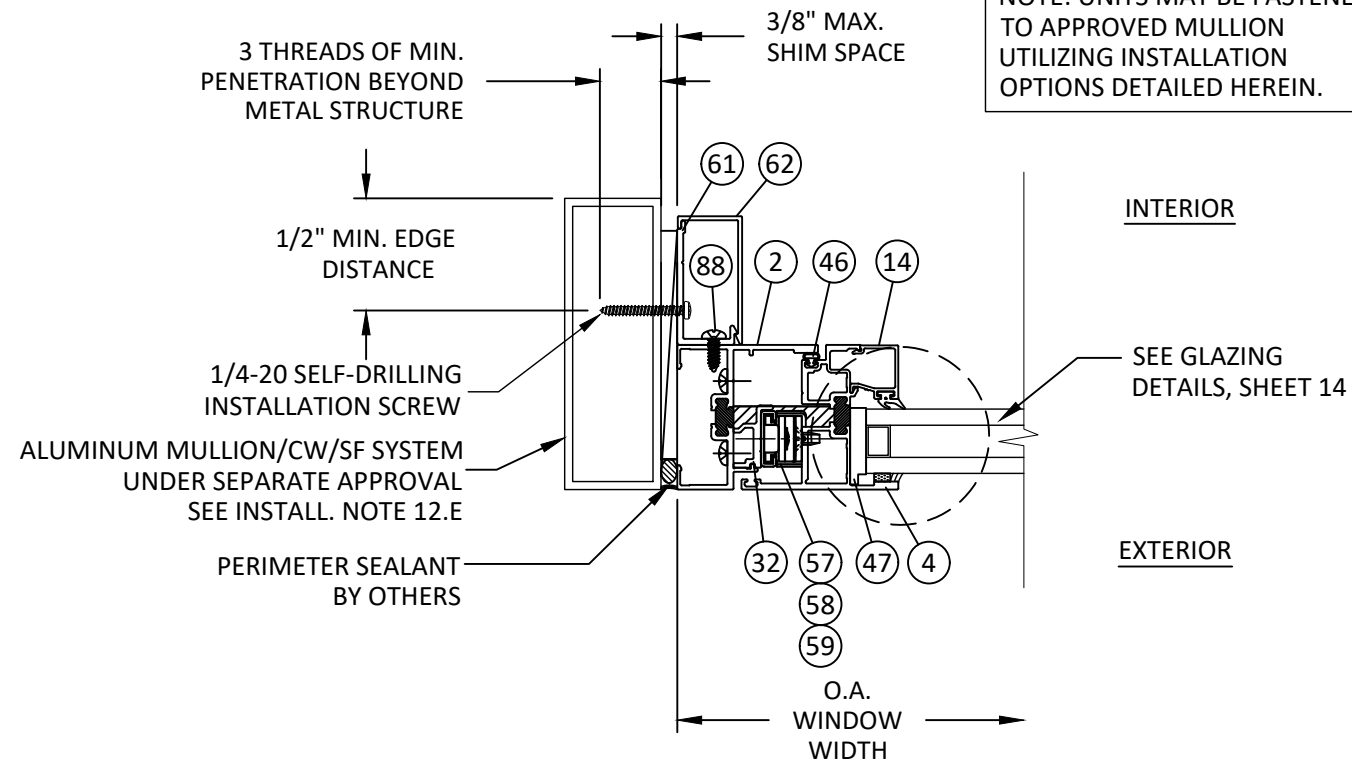


S
10 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TRIM CLIP ANCHOR - TYP. "OUTSWING"

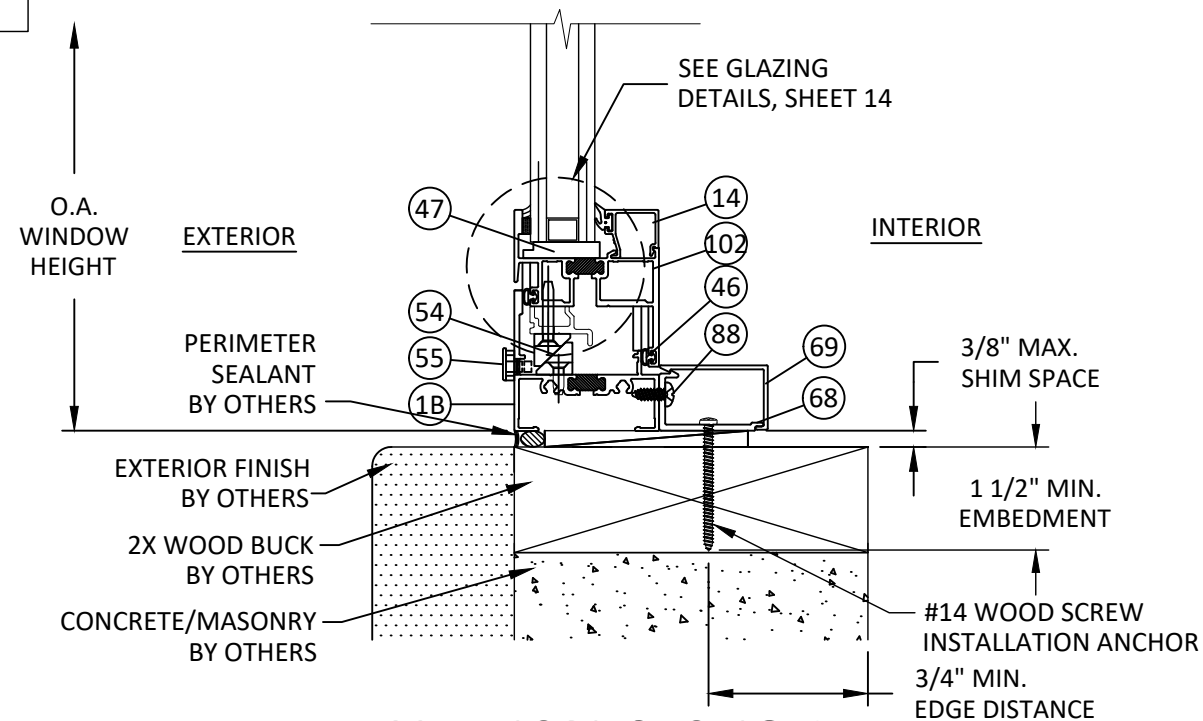
- *ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



R
10 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
TRIM CLIP ANCHOR - TYP. "OUTSWING"



T
10 **HORIZONTAL SECTION**
VENT JAMB - MULL TUBE FRAME
TRIM CLIP ANCHOR - TYP. "OUTSWING"



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

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



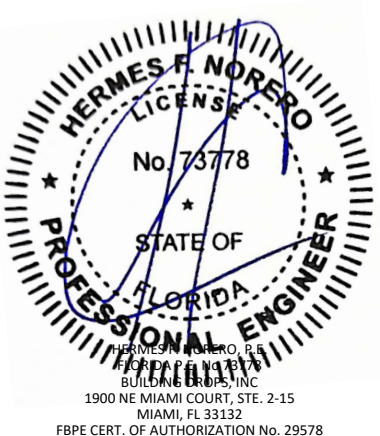
YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

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

PREPARED BY:
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MIAMI, FL 33132
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SCALE: **NTS**

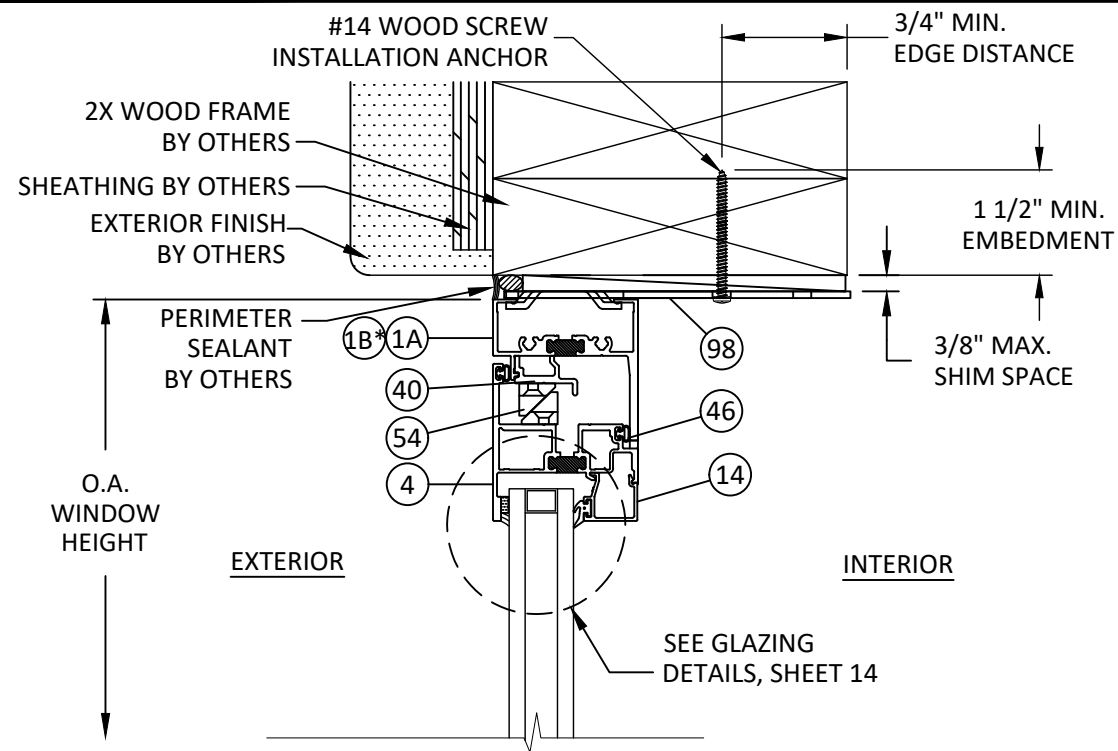
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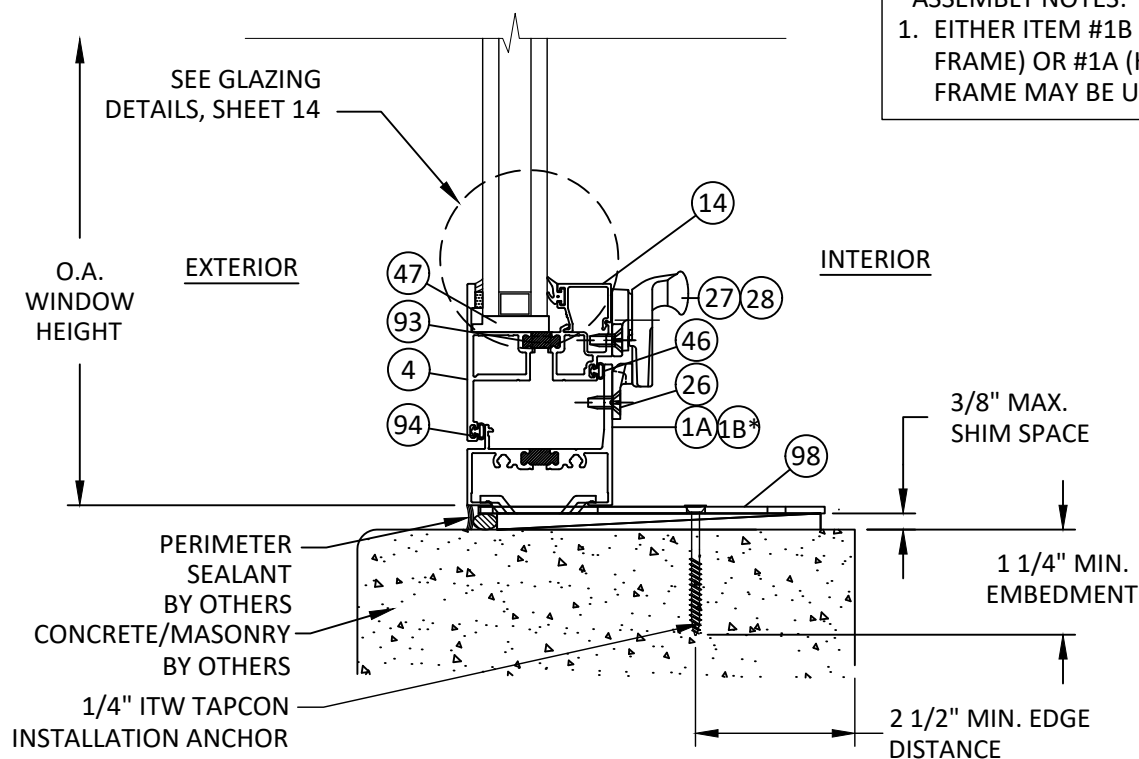
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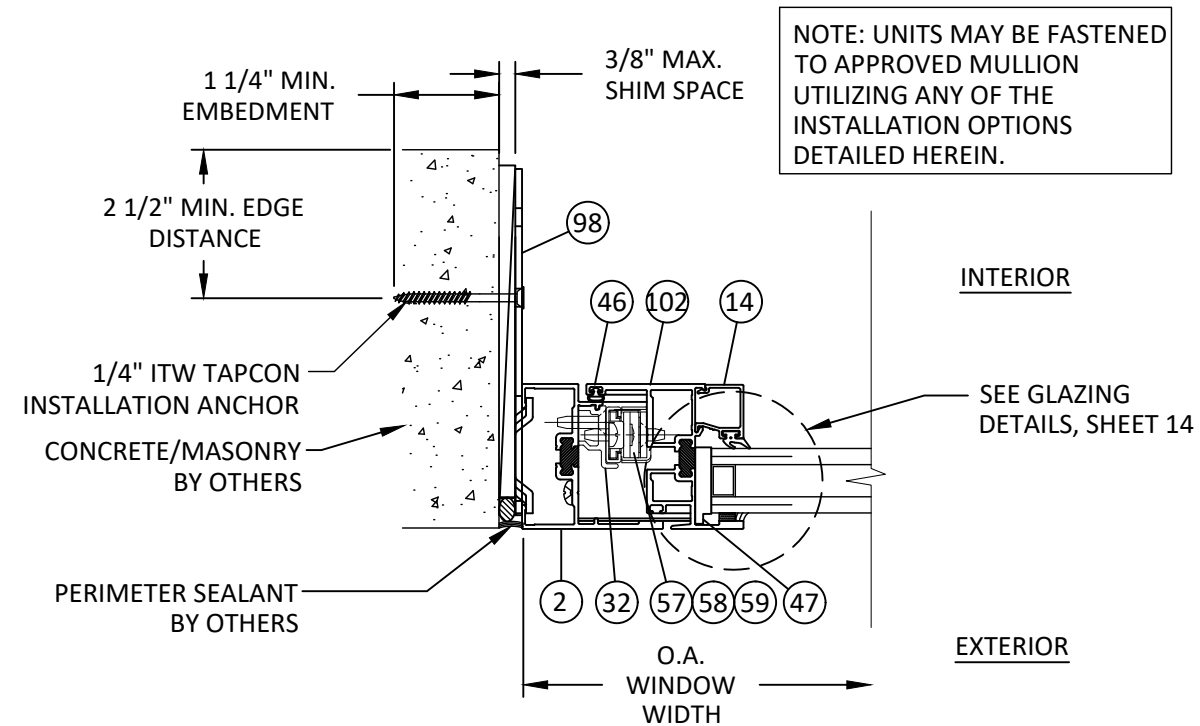


W
11 **VERTICAL SECTION**
VENT HEAD - 2X WOOD FRAME
TWIST ANCHOR - TYP. "OUTSWING"

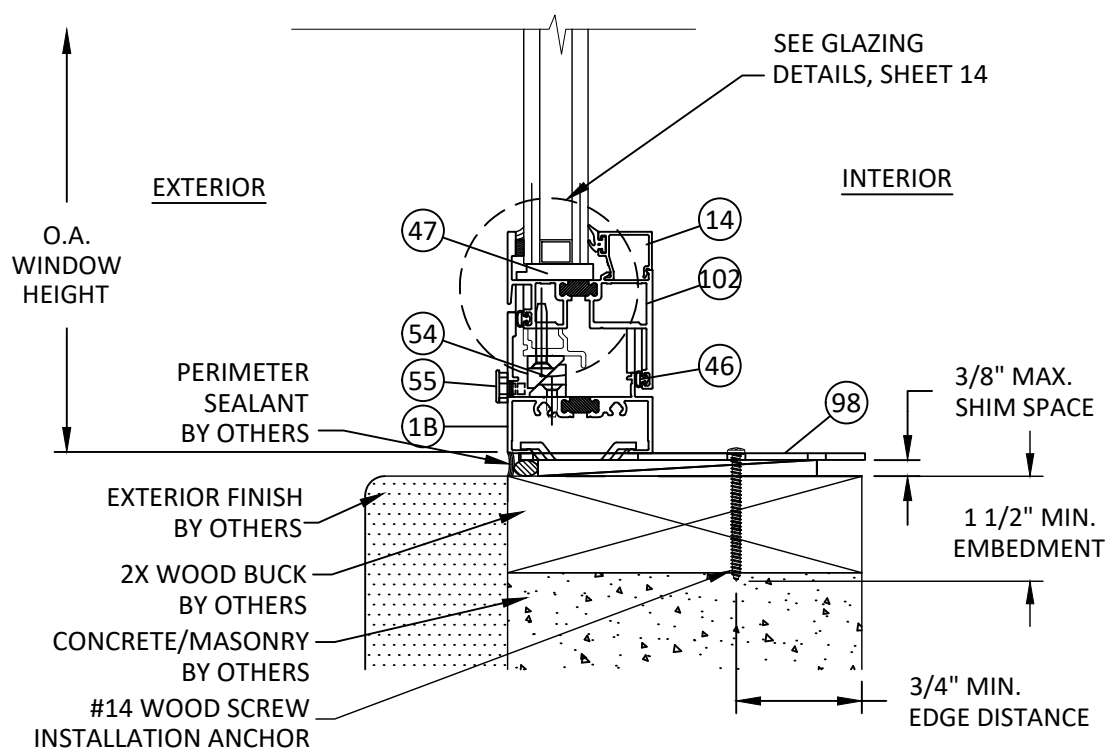


V
11 **VERTICAL SECTION**
VENT SILL - CONCRETE/MASONRY
TWIST ANCHOR - TYP. "OUTSWING"

- *ASSEMBLY NOTES:
1. EITHER ITEM #1B (STANDARD FRAME) OR #1A (HEAVY FRAME) FRAME MAY BE USED.



X
11 **HORIZONTAL SECTION**
VENT JAMB - CONCRETE/MASONRY
TWIST ANCHOR - TYP. "INSWING"



Y
11 **VERTICAL SECTION**
VENT SILL - 2X WOOD BUCK
TWIST ANCHOR - TYP. "INSWING"

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



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

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

TWIST ANCHOR DETAILS

PREPARED BY:

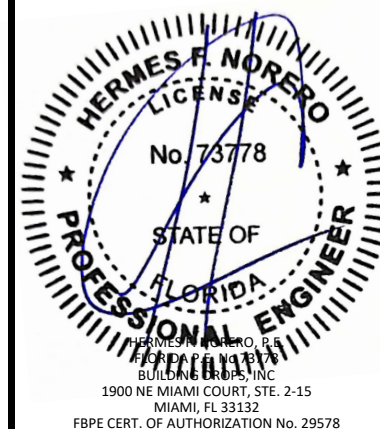
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MIAMI, FL 33132
PH: (954)399-8478
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DWG. BY:
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CHK. BY:
HFN

SCALE: **NTS**

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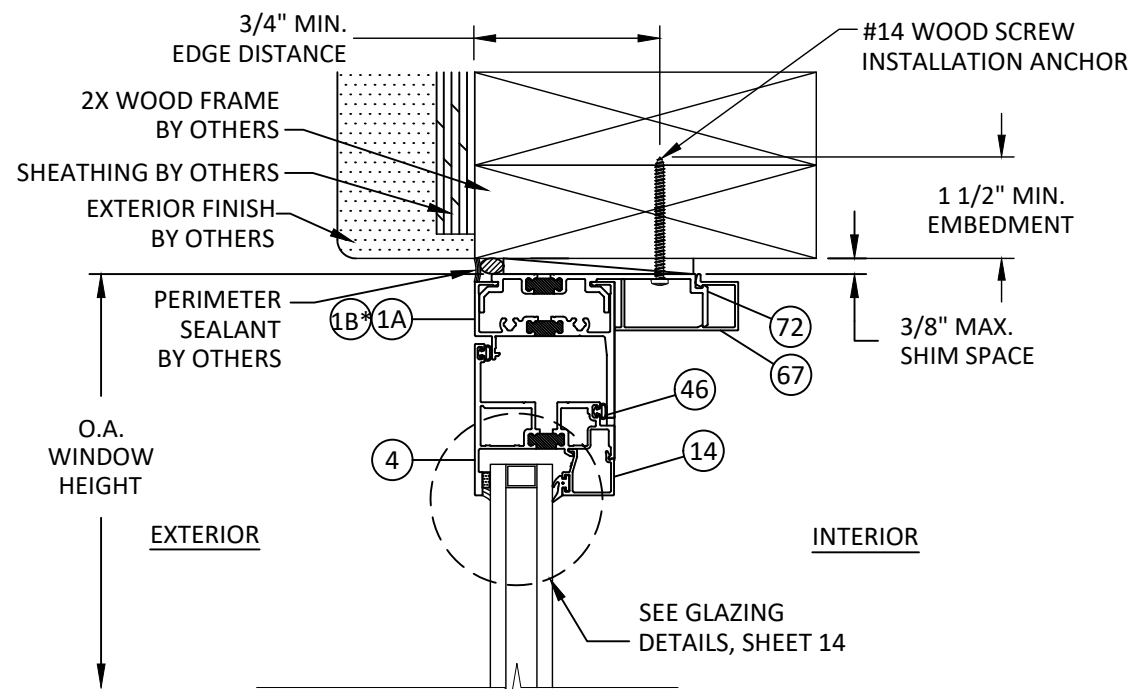
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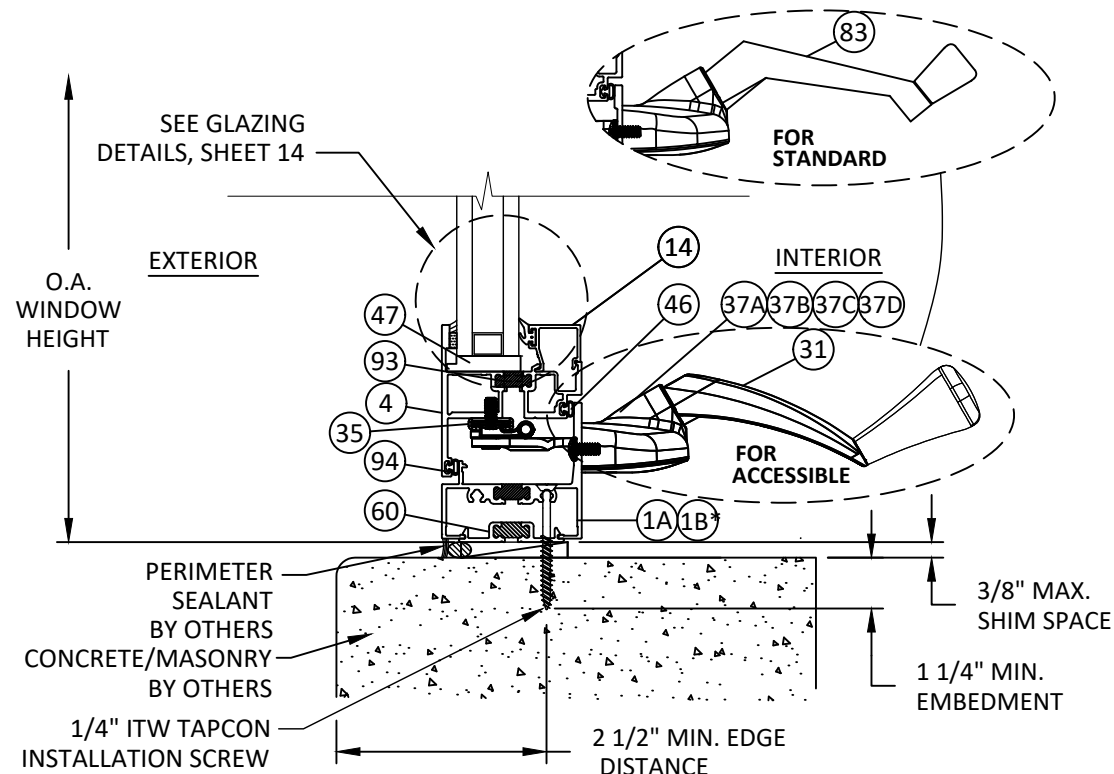
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E

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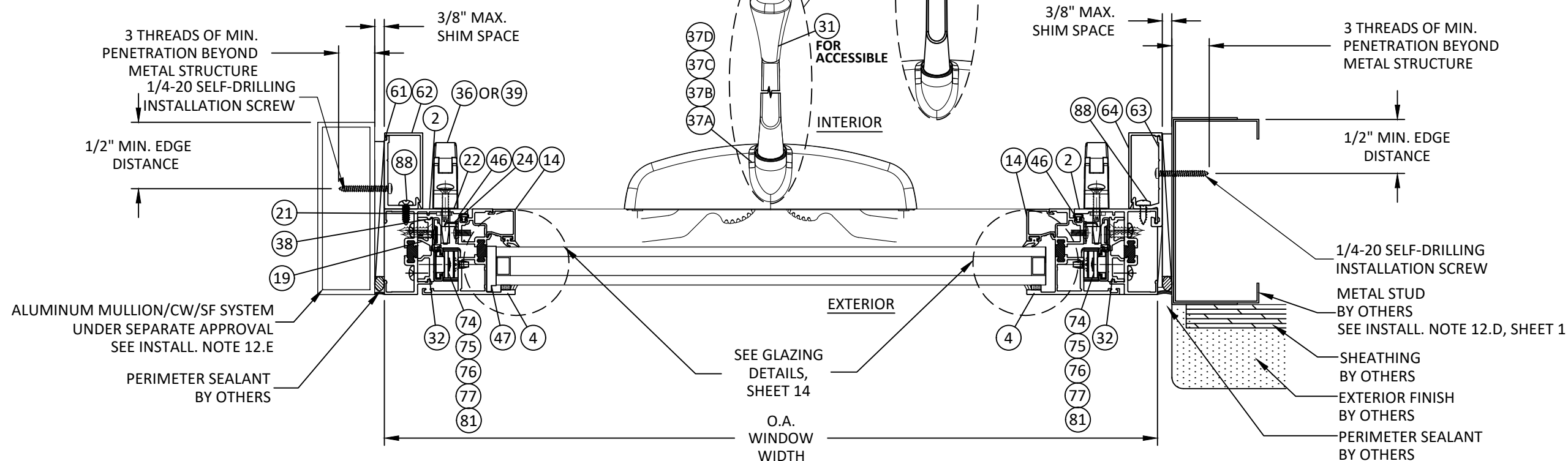
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Z12 VERTICAL SECTION
VENT HEAD - 2X WOOD FRAME
STRAP ANCHOR - TYP. "OUTSWING"
ACCESSIBLE HARDWARE



AA12 VERTICAL SECTION
VENT SILL - CONCRETE/MASONRY
THROUGH FRAME - TYP. "OUTSWING"
ACCESSIBLE HARDWARE



AB12 HORIZONTAL SECTION
VENT JAMB - METAL SUBSTRATE
TRIM CLIP ANCHOR - TYP. "OUTSWING"
ACCESSIBLE HARDWARE



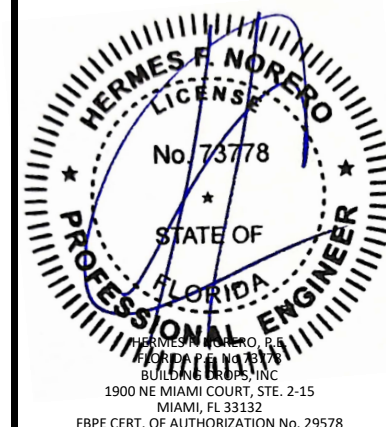
YKK AP America Inc.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

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

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

REMARKS	BY	DATE
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
MISC. UPDATES	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**

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

SCALE: **NTS**

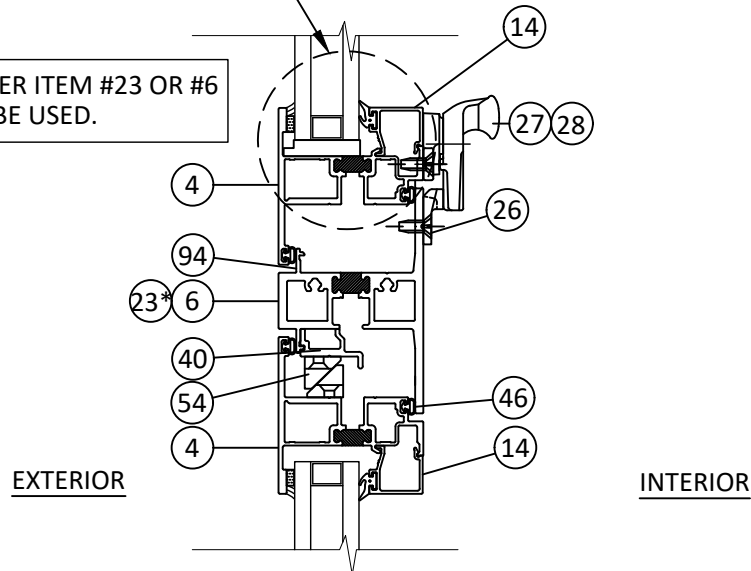
DWG. #: **YKK244**

SHEET: **12** REV. **E**

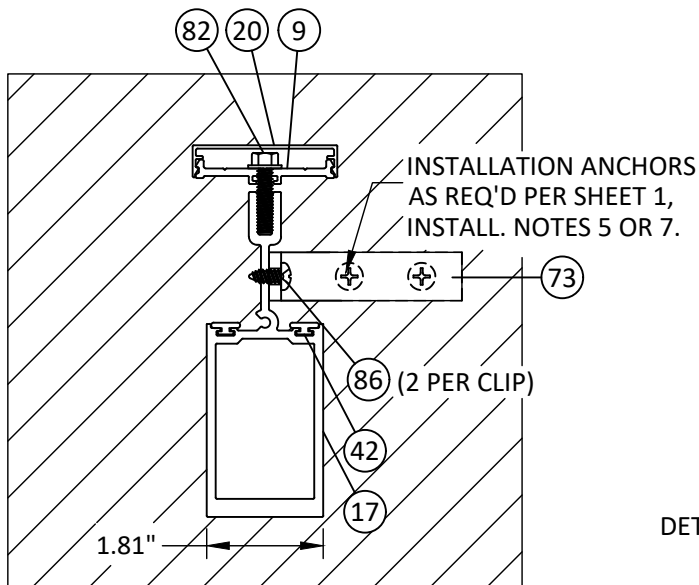
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SEE GLAZING
DETAILS, SHEET 14

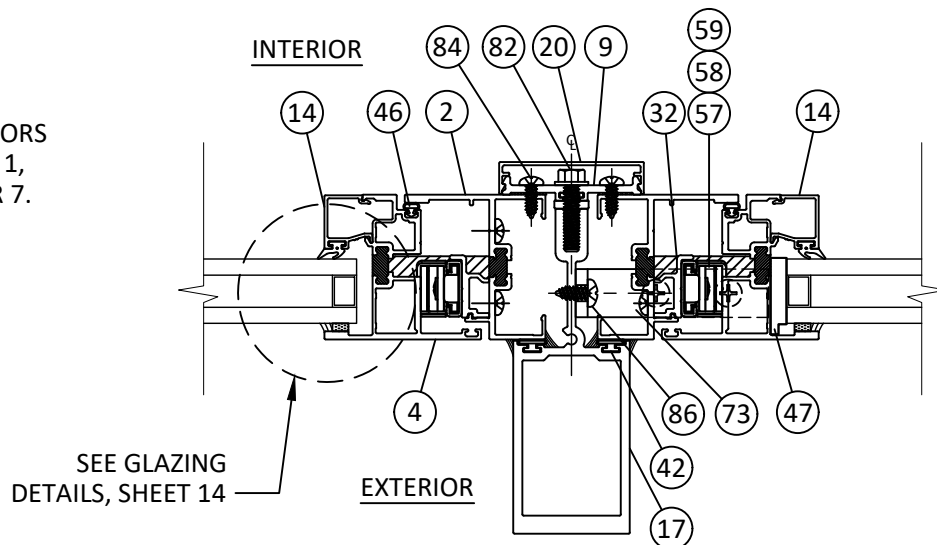
*EITHER ITEM #23 OR #6
MAY BE USED.



AD **HORIZONTAL SECTION**
13 PROJECT OUT - PROJECT OUT



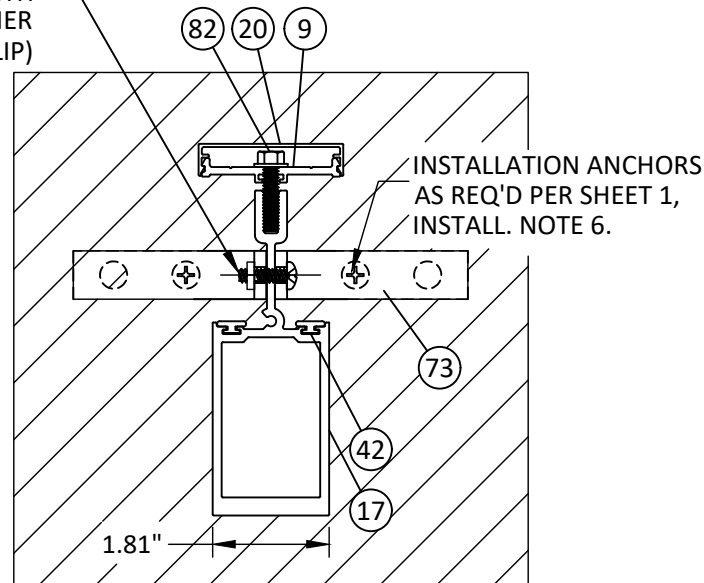
AE **HORIZONTAL SECTION**
13 STACK MULLION - TYP.
JAMB INSTALLATION



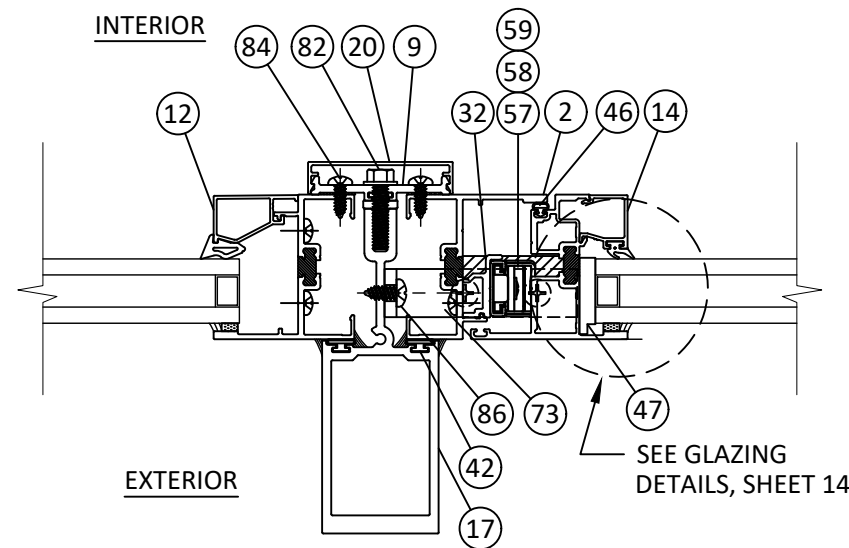
AG **HORIZONTAL SECTION**
13 STACK MULLION - TYP.
PROJECT OUT TO PROJECT OUT

NOTE: STACK MULLION (ITEM #17)
MAY BE INSTALLED IN REVERSE
ORIENTATION THAN SHOWN.

1/4" X 3/4" BOLT WITH
LOCK WASHER
(2 PER CLIP)



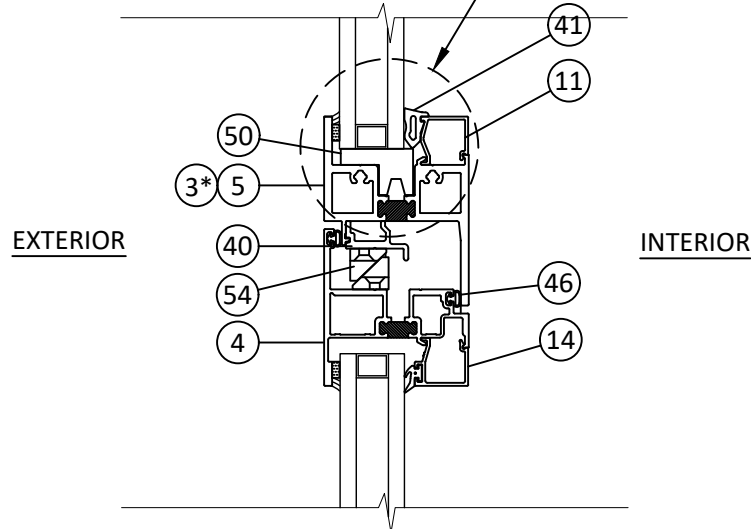
AF **HORIZONTAL SECTION**
13 STACK MULLION - TYP.
INTERMEDIATE INSTALLATION



AH **HORIZONTAL SECTION**
13 STACK MULLION - TYP.
FIXED TO PROJECT OUT

*EITHER ITEM #3 OR #5
MAY BE USED.

SEE GLAZING
DETAILS, SHEET 14



AC **VERTICAL SECTION**
13 INTEGRAL MULLION-TYP.
FIXED OVER PROJECT OUT



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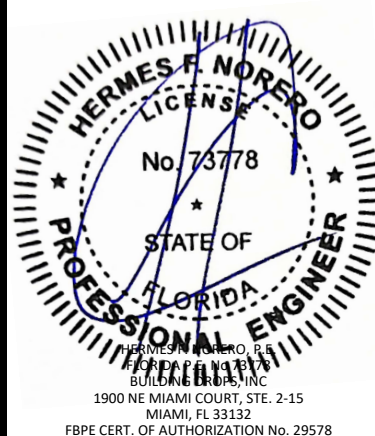
TITLE:
YOW 225 THERMAL ALUMINUM
PROJECT OUT & PROJECT IN WINDOWS
(NON-HVHZ) (NON-IMPACT)
PROJECT OUT - STACK AND INTEGRAL
MULLION DETAILS

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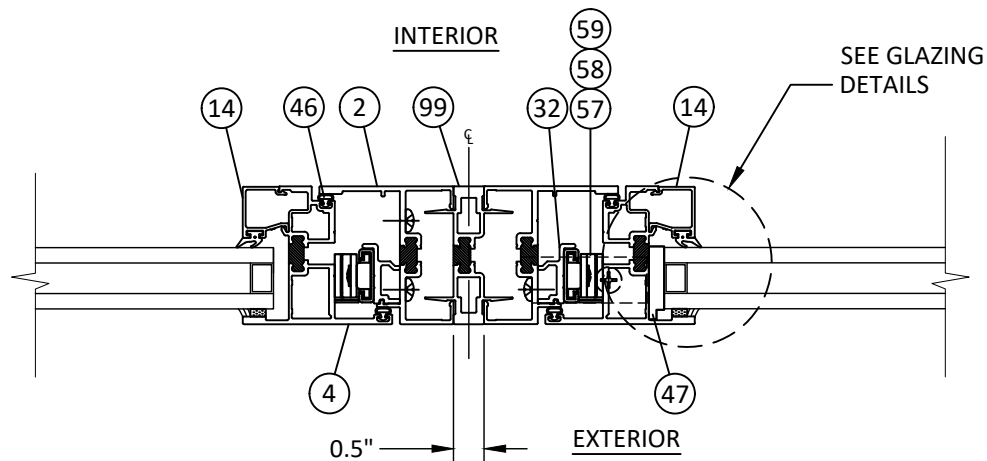
REMARKS	BY	DATE
MISC UPDATES	SH	09.26.22
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MISC. UPDATES	SH	02.26.24
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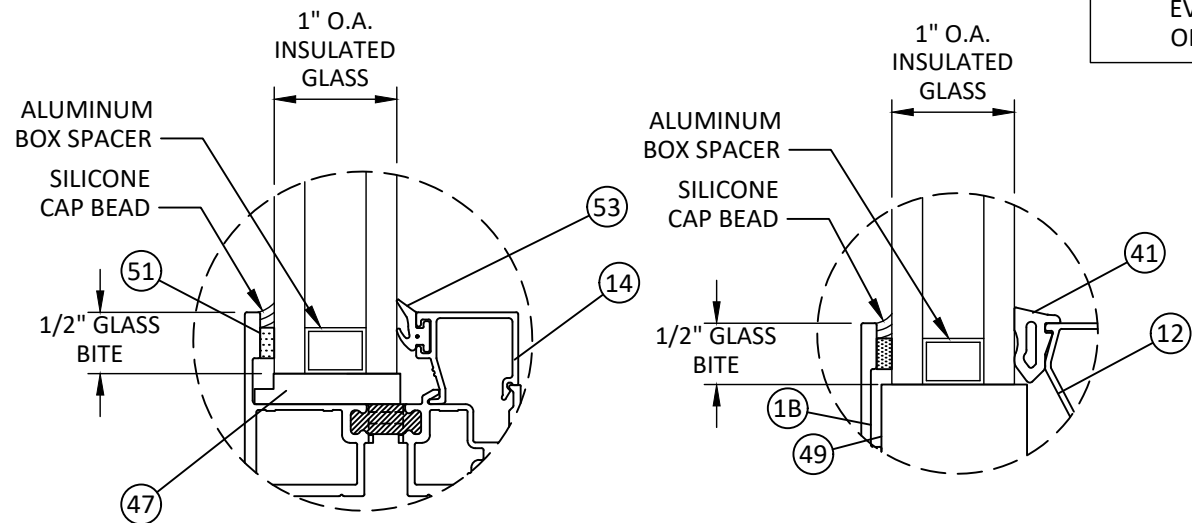
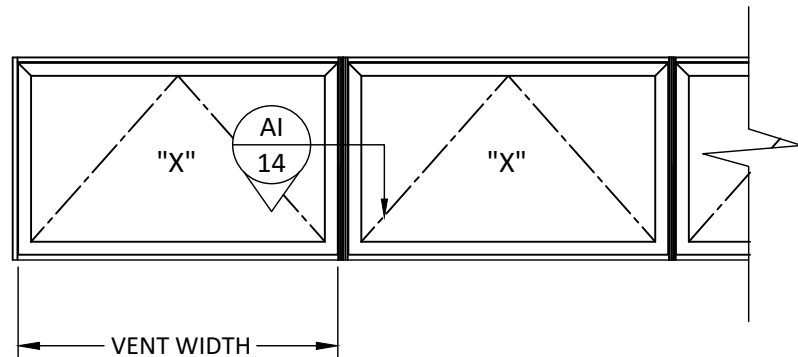


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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK244
SHEET:	13
REV.	E

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AI 14 HORIZONTAL SECTION
"I" MULLION - TYP.
PROJECT OUT TO PROJECT OUT

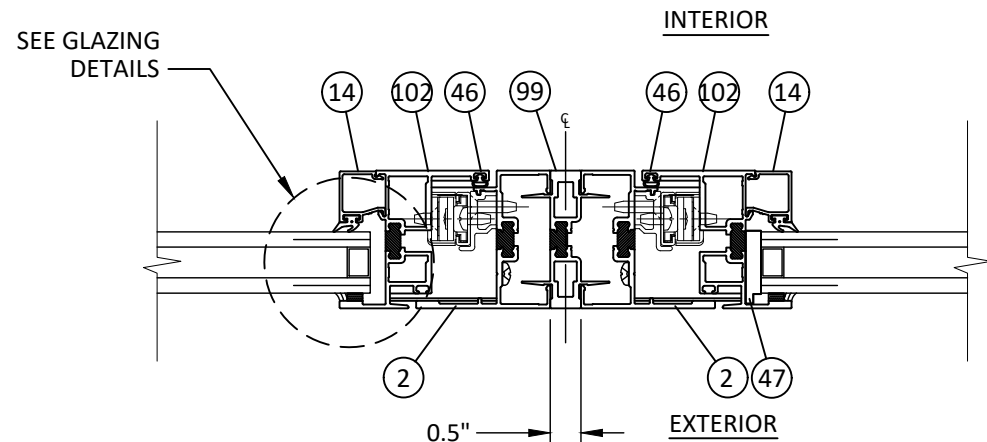


VENT GLAZING DETAILS

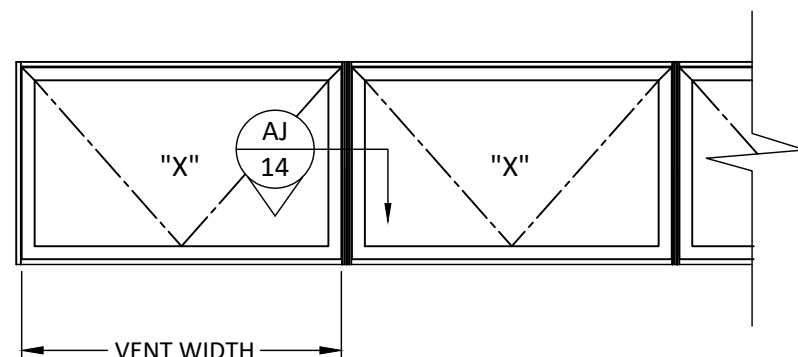
FIXED GLAZING DETAILS

"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

- NOTES:
- "I" MULLION MAY BE USED ON A SINGLE ROW (SEE ELEVATION TO RIGHT) OF UP TO THE MAXIMUM APPROVED PROJECT OUT 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.



AJ 14 HORIZONTAL SECTION
"I" MULLION - TYP.
PROJECT IN TO PROJECT IN



- GLAZING NOTES:
- GLASS TYPE SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLE ON SHEET 5.

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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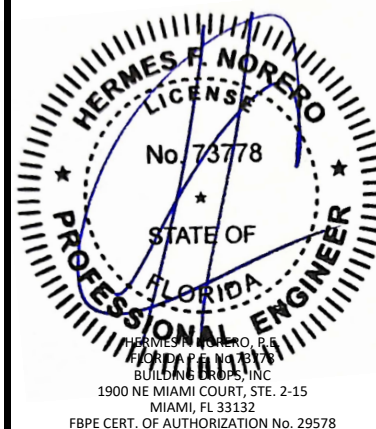
TITLE:
YOW 225 THERMAL ALUMINUM
PROJECT OUT & PROJECT IN WINDOWS
(NON-HVHZ) (NON-IMPACT)
"I" MULLION DETAILS
& GLAZING DETAIL

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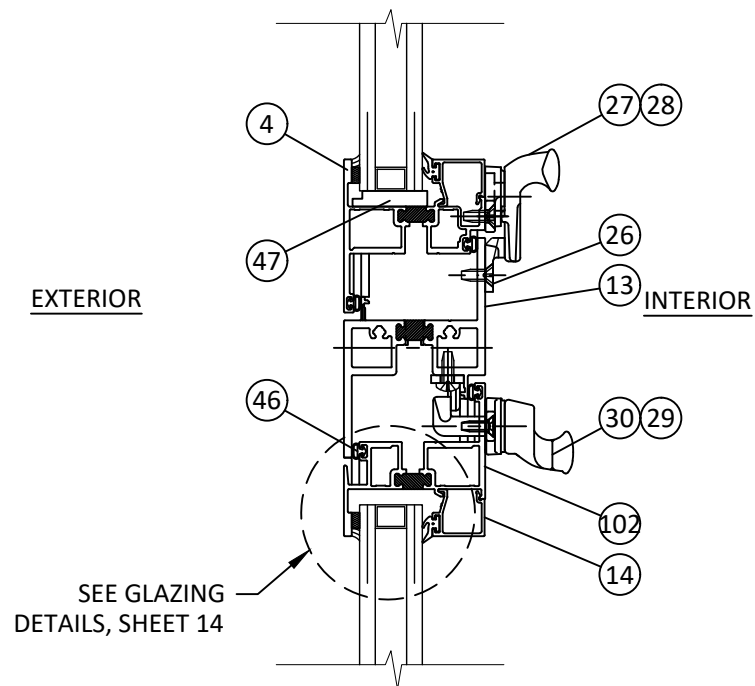
DWG. BY: **FM** CHK. BY: **HFN**

SCALE: **NTS**

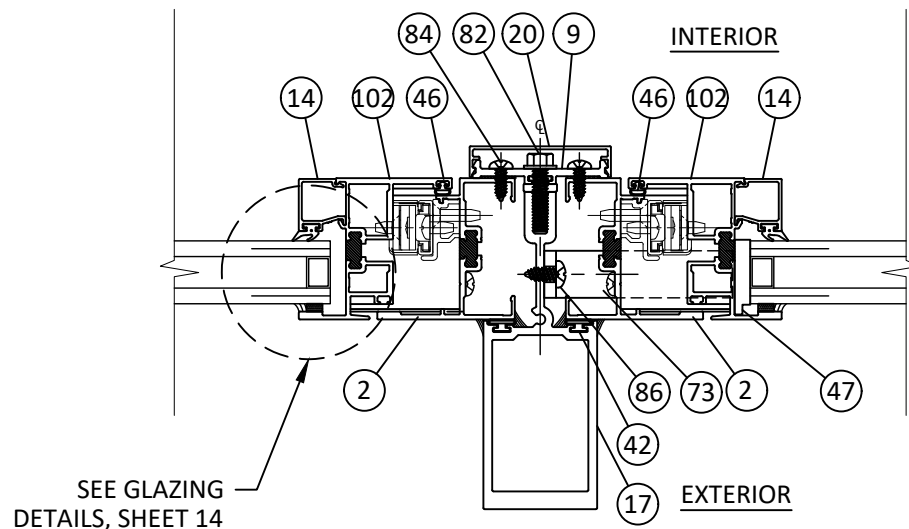
DWG. #: **YKK244**

SHEET: **14** REV. **E**

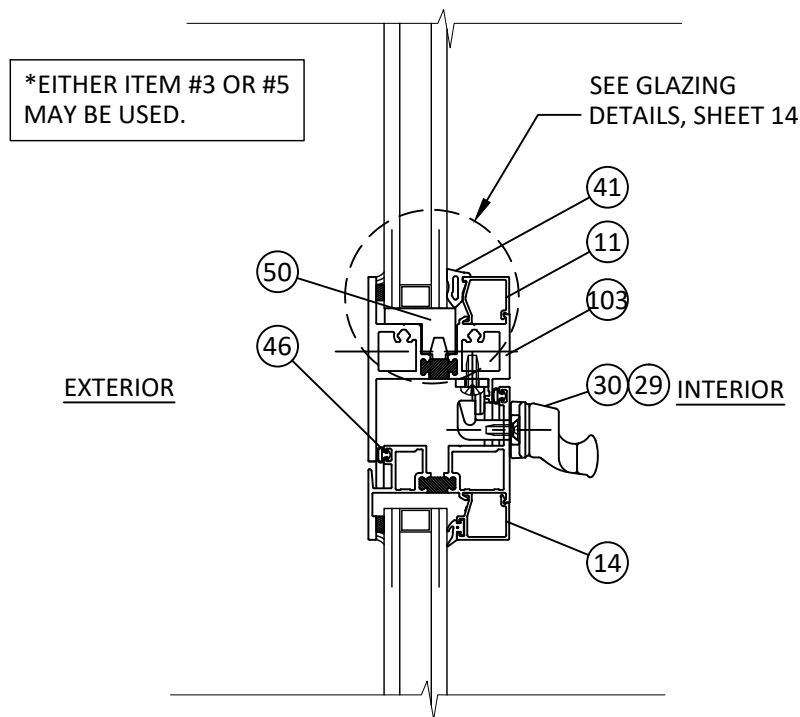
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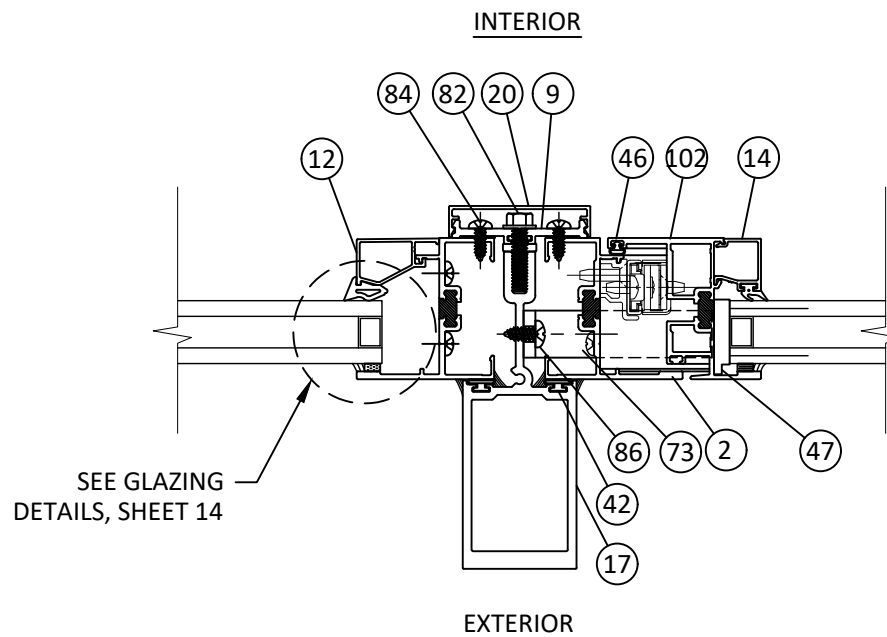
AK 15 HORIZONTAL SECTION
PROJECT OUT - PROJECT IN



AO 15 HORIZONTAL SECTION
STACK MULLION - TYP.
PROJECT IN TO PROJECT IN
(MULLIONS MAY BE REVERSED)



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



AP 15 HORIZONTAL SECTION
STACK MULLION - TYP.
FIXED TO PROJECT IN
(MULLIONS MAY BE REVERSED)



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

PROJECT IN & OUT
MULL DETAILS

PREPARED BY:

BUILDING DROPS, INC.

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

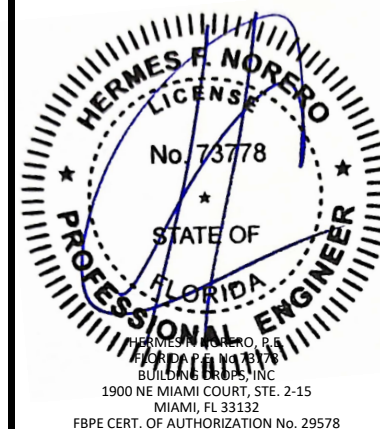
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MISC UPDATES	SH	09.26.22
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DWG. BY: **FM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK244**

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

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BILL OF MATERIALS			
ITEM	PART No.	DESCRIPTION	MATERIAL
1A	BE9-4519	FRAME HEAD AND SILL	6063-T5
1B	BE9-4501	FRAME HEAD AND SILL	6063-T5
2	BE9-4502	FRAME JAMB	6063-T5
3	BE9-4509	MULLION	6063-T5
4	BE9-4534	VENT - OUTSWING	6063-T5
5	BE9-4560	MULLION	6063-T5
6	BE9-4561	MULLION	6063-T5
7	BE9-4583	2-1/4" WEEPING SILL FLASHING	6063-T5
8	BE9-4577	RECEPTOR	6063-T5
9	E9-4231	PRESSURE BAR	6063-T5
10	E9-4513	ADAPTOR	6063-T5
11	E9-4506	GLASS STOP	6063-T5
12	E9-4507	FIXED GLASS STOP	6063-T5
13	BE9-4511	MULLION	6063-T5
14	E9-5218	VENT GLASS STOP	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 / HINGE BASE	6063-T5
20	E9-5111	COVER	6063-T5
21	E1-1980	BACKER PLATE	6063-T5
22	E1-1979	HANDLE GASKET	RUBBER/BUTYL
23	BE9-4512	MEETING STILE INTEGRAL MULL	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	E1-1503	CAM HANDLE - (RH) "INSWING"	WHITE BRONZE
30	E1-1504	CAM HANDLE - (LH) "INSWING"	WHITE BRONZE
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	E1-1959	SNUBBER BASE	-
41	E2-0672	WEDGE GASKET	EPDM
42	E2-0051	AT GASKET	SANTOPRENE
43	E2-0133PC	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	E2-0626PC	SETTING BLOCK	EPDM
48	E2-0644	CORNER GASKET	EPDM
49	E2-0646PC	SETTING BLOCK	EPDM
50	E2-0647	SETTING BLOCK	-
51	E2-0670	BACKER TAPE	POLYURETHANE FOAM
52	E2-0682	GASKET - RUBBER	BUTYL

BILL OF MATERIALS			
ITEM	PART No.	DESCRIPTION	MATERIAL
53	E2-0050	PRESET GASKET	EPDM
54	E3-1103	SNUBBER - STANDARD	-
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	BE9-4566	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	FF-1008-SS	#10 X 24 FH MS SS F	-
79	FF-1012-SS	#10-24 X ¾" FH MS SS F	300 SS
80	FF-1016-SS	#10-24 X 1" FH MS SS F	-
81	E1-1999	24" 4 BAR HINGE (FOR PO)	STAINLESS STEEL/BRASS
82	HD-2516-W3	1/4-20 X 1" HWHS SS	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 ⅝" FM MS SS F	300 SS
88	PC-1008-SS	#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	E2-0768	JAMB BLOCK	-
93	-	⅝" Ø WEEP HOLE	-
94	-	1½" X ¼" WEEP SLOT	-
95	-	(2) ¼" Ø WEEP HOLE	-
96	-	#10-16 X ¾" SSMS (PH OR FH)	-
97	-	DOW 995 SILICONE ADHESIVE	SILICONE
98	E1-1970	TWIST ANCHOR	GALVANIZED STEEL
99	BE9-4579	I MULLION	6063-T5
100	E9-4521	VENT GLASS STOP	6063-T5
101	E9-4508	VENT GLASS STOP	6063-T5
102	BE9-4535	VENT - INSWING	6063-T5
103	BE9-4510	MULLION	6063-T5
104	PC-0806SS	#8 X 3/8" PHSMS TYPE AB	STAINLESS STEEL
105	E9-4587	4" SILL TRIM	6063-T5
106	E1-2003	END DAM	



Quality
inspires™

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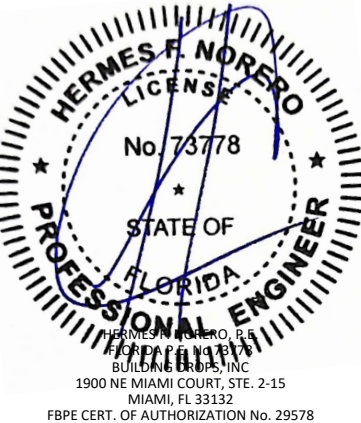
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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL16313

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SCALE: **NTS**

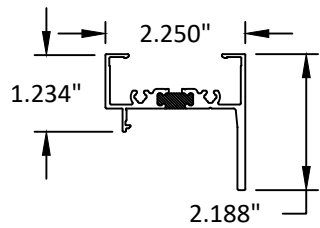
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SHEET:	REV.
16	E

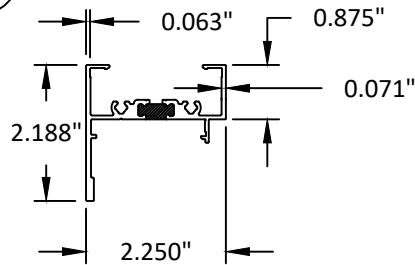
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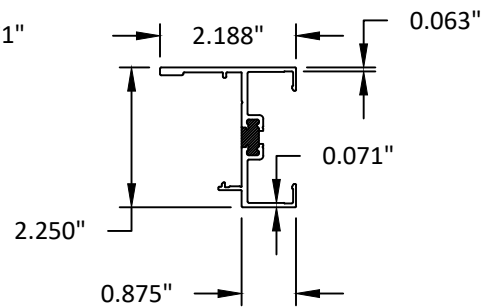
1A FRAME HEAD AND SILL



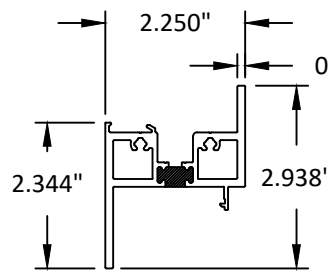
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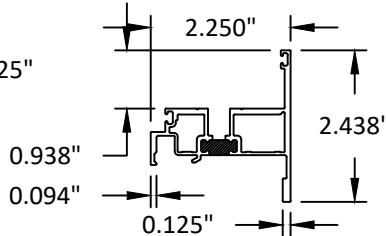
2 FRAME JAMB



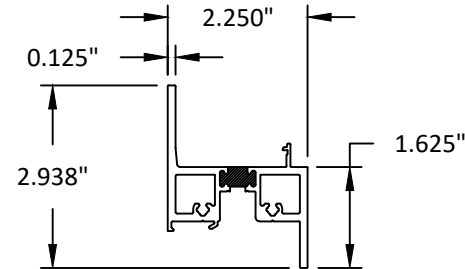
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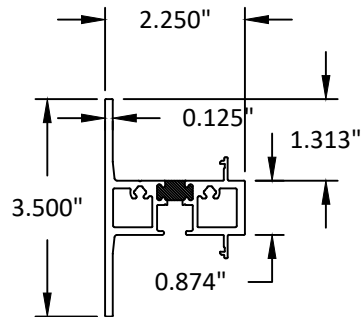
4 VENT - OUTSWING



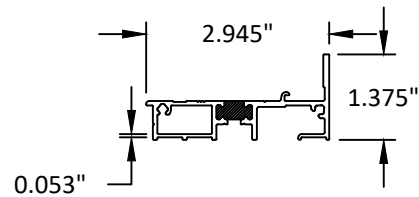
5 MULLION



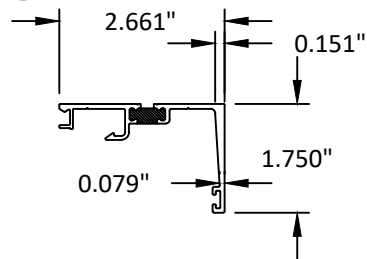
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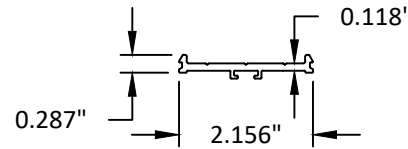
7 2 1/4" WEEPING SILL FLASHING 6063-T5



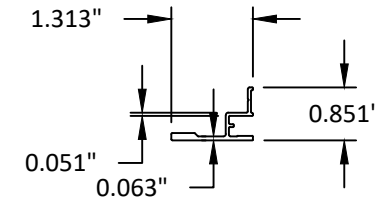
8 RECEPTOR



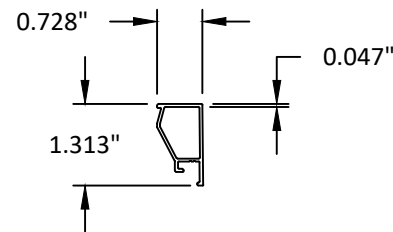
9 PRESSURE BAR



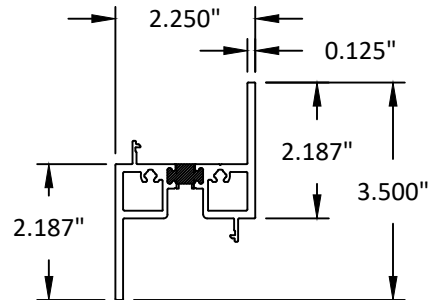
10 ADAPTOR



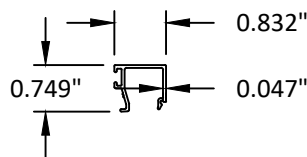
12 FIXED GLASS STOP



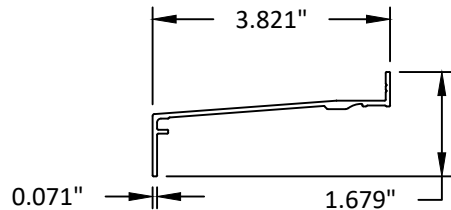
13 MULLION



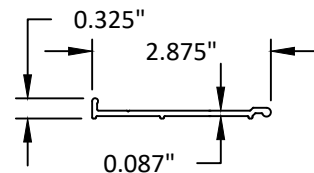
14 VENT GLASS STOP



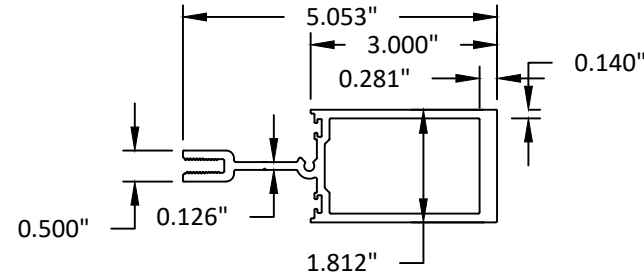
15 3" SILL TRIM 6063-T5



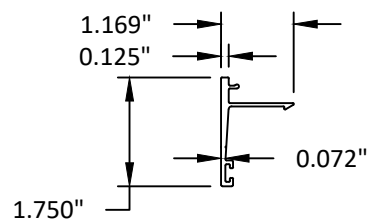
16 SILL TRIM BASE



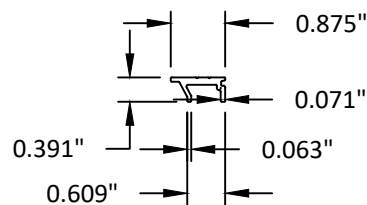
17 STACKING MULLION



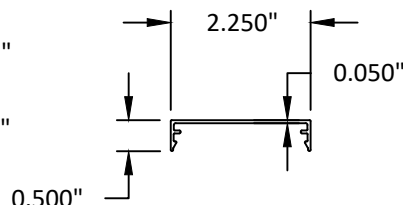
18 RECEPTOR STOP



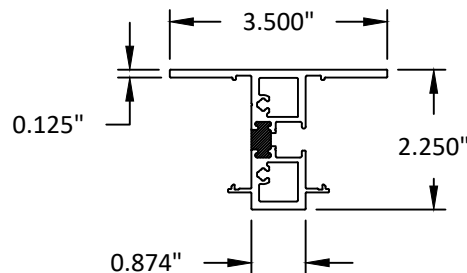
19 LOCK BAR BASE



20 COVER



23 MEETING STILE MULLION



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

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

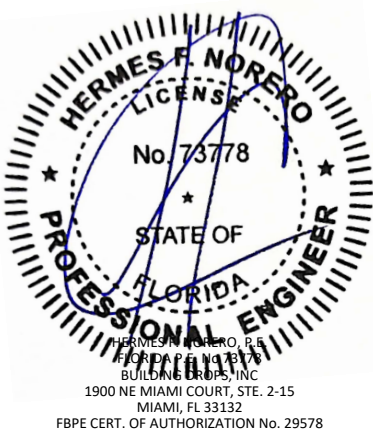
COMPONENTS 1

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



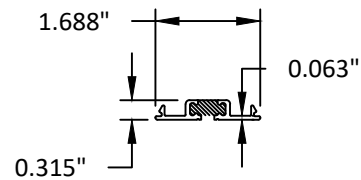
REMARKS	BY	DATE
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
MISC. UPDATES	SH	02.26.24
9TH FBC CODE CHANGE	SH	07.31.26

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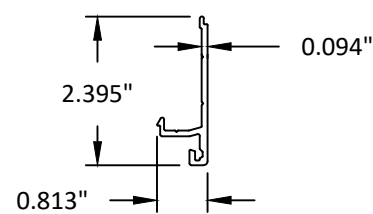


FL #:	FL16313
DATE:	8.29.17
DWG. BY:	FM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK244
SHEET:	17
REV.	E

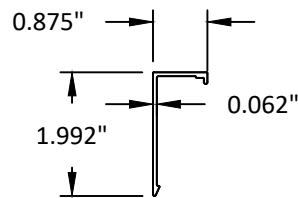
60 THROUGH FRAME FILLER PLATE



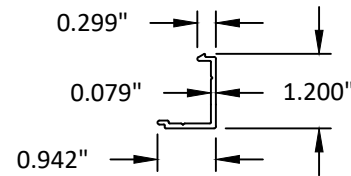
63 ANCHOR CLIP



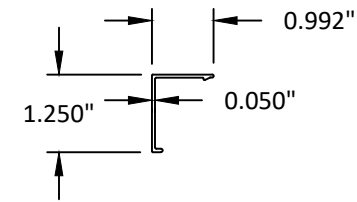
64 ANCHOR CLIP



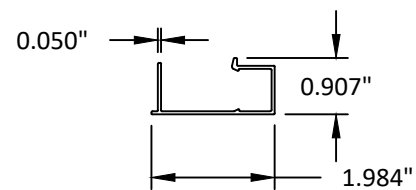
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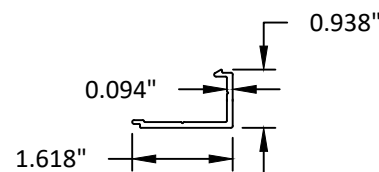
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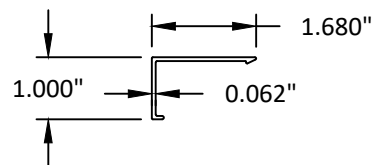
67 STRAP ANCHOR COVER



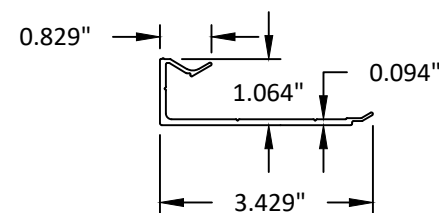
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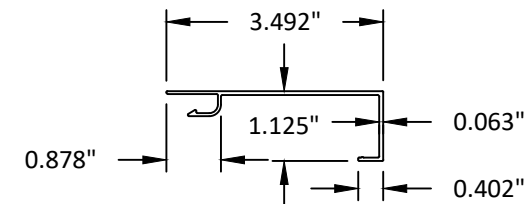
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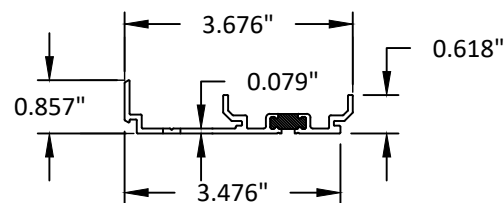
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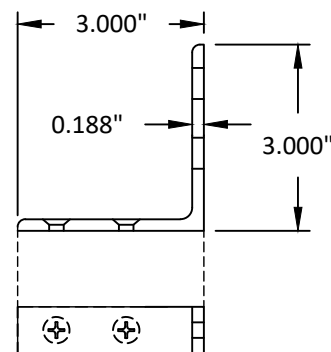
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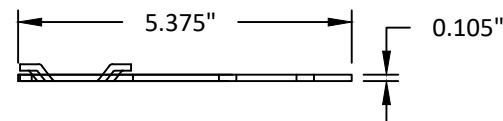
72 STRAP ANCHOR
MINIMUM 4 1/2\"/>



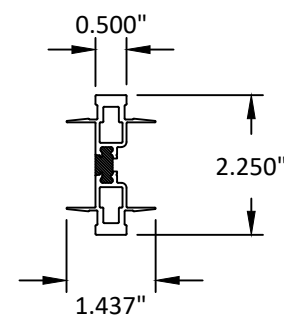
73 MULLION CLIP



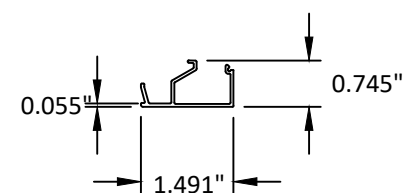
98 TWIST ANCHOR



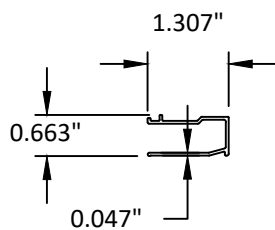
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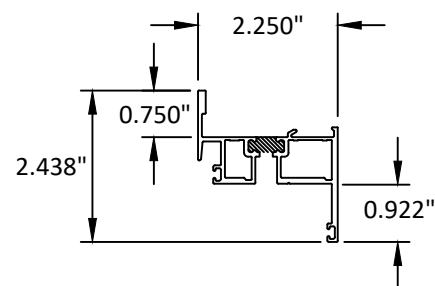
100 VENT GLASS STOP



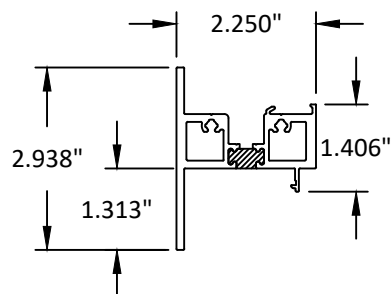
101 VENT GLASS STOP



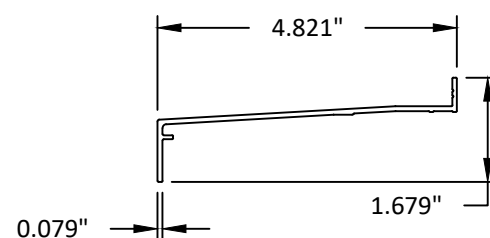
102 VENT - INSWING



103 MULLION



105 4\"/>



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

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

COMPONENTS 2

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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REMARKS	BY	DATE
MISC UPDATES	SH	09.26.22
8TH FBC CODE CHANGE	SH	06.01.23
MISC. UPDATES	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

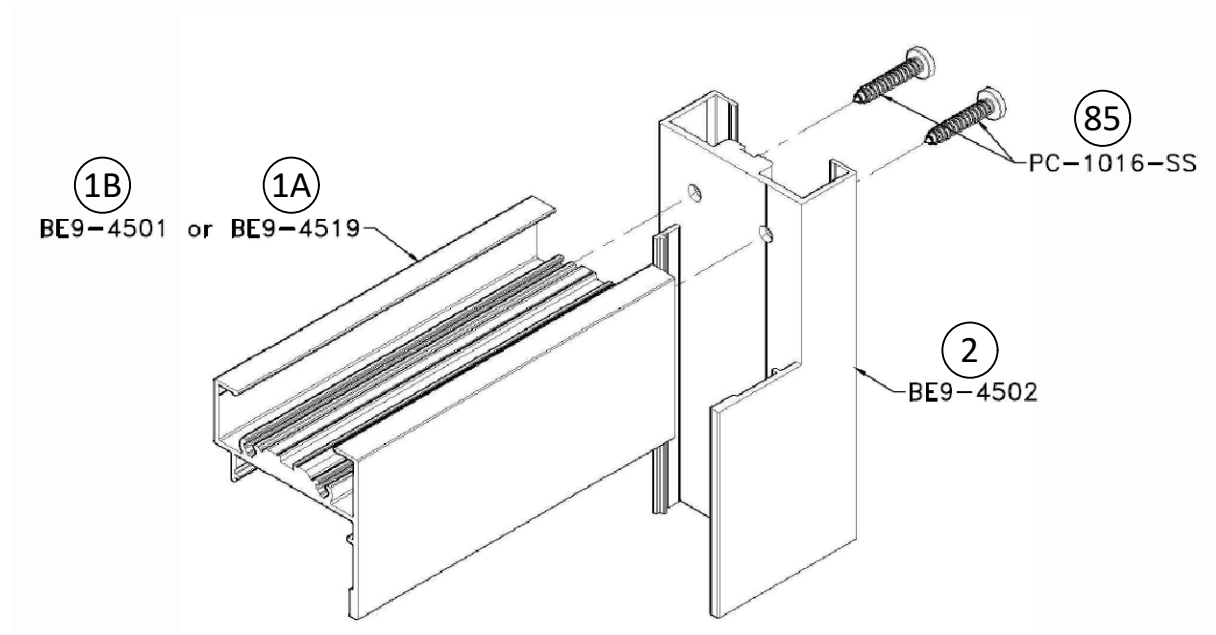
DWG. #: YKK244

SHEET: REV. E

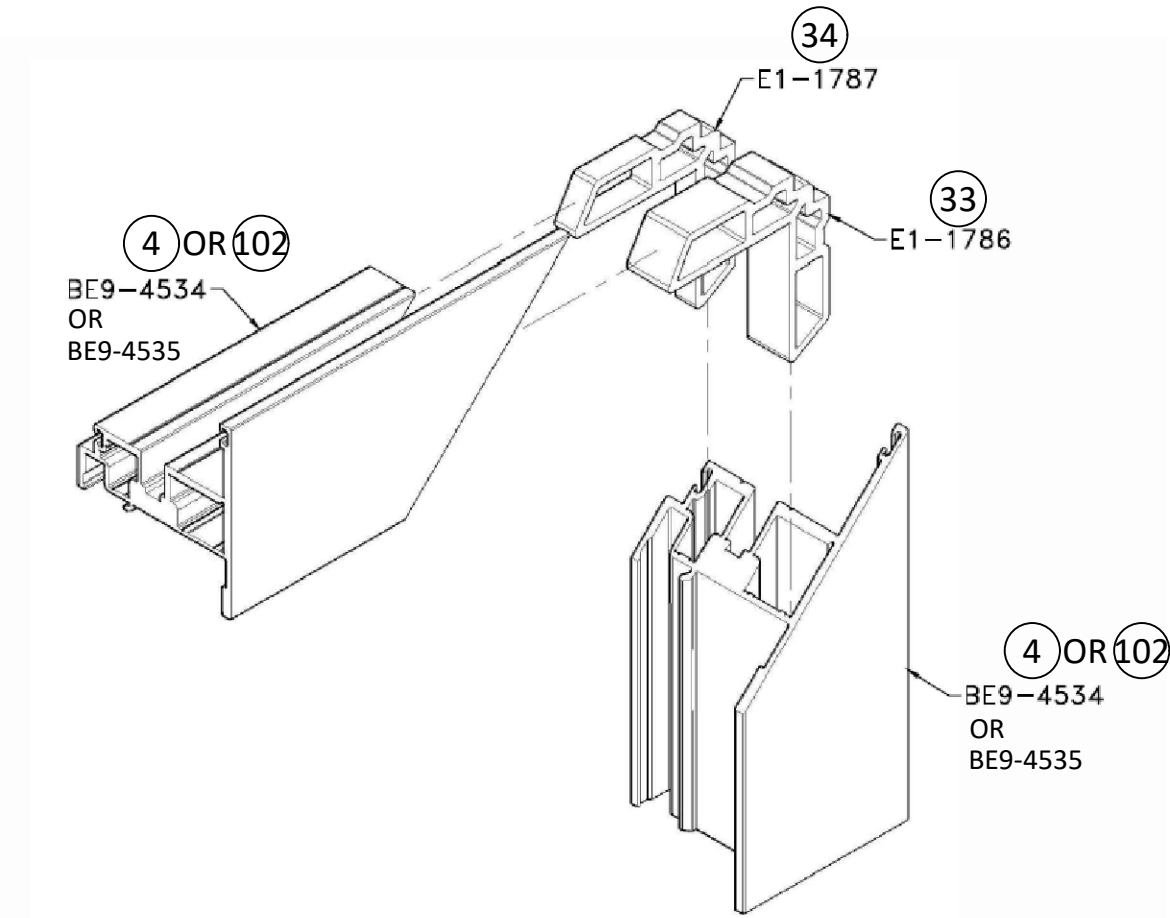
18

OF 19

c:\users\sebastianherrerros\desktop\ykk 2026 ca\116313\ykk244.dwg 7/31/2026 8:33 AM



FRAME CORNER CONSTRUCTION
TYPICAL



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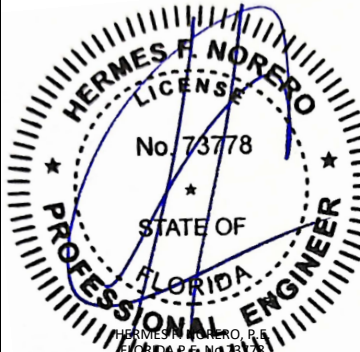
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

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

PREPARED BY:
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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. #: **YKK244**

SHEET:
19

REV.
E

OF 19