

WEILAND SLIDING DOORS AND WINDOWS, INC.

FIXED WINDOW (AWFW/AFW-T/AFW) & DIRECT SET WINDOW (AWLS-DS/ALS-DS-T/ALS-DS) (HVHZ)(NON-IMPACT)

INSTALLATION NOTES:

1. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
2. 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.
3. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
4. FOR INSTALLATION INTO WOOD FRAMING, USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT.
5. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT AND 2 INCH EDGE DISTANCE.
6. FOR INSTALLATION INTO METAL STUD FRAMING, USE #10 GRADE 5 SELF-DRILLING OR SELF-TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM OF THREE THREADS PENETRATION BEYOND METAL WALL.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. FOR 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.
9. 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.
10. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 14 GA. (0.0747") WALL THICKNESS.

E. ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, INCLUDING HVHZ. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

AAMA/WDMA/CSA/1.S.2/A440-11

ASTM E330-14

ASTM E331-00(09)

TAS 202-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT, IN NON HVHZ AND TO BE REVIEWED BY BUILDING OFFICIAL. FOR HVHZ DEVIATION FROM APPROVAL REQUIRES ONE TIME APPROVAL FROM MIAMI-DADE COUNTY (RER).
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: DOUGLAS FIR WOOD AND ALUMINUM 6063-T5.
7. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAIL.
8. DESIGNATIONS "O" STAND FOR THE FOLLOWING:

O: FIXED PANEL

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATIONS & DESIGN PRESSURE TABLE
3	ANCHOR LAYOUT & GLAZING DETAIL
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
6	VERTICAL & HORIZONTAL SECTIONS
7	BOM & COMPONENTS

DESIGN PRESSURES	MODEL	CONFIGURATION	MISSILE IMPACT RATING
SEE SHEET 2 FOR DESIGN PRESSURES	AWFW	"O" FIXED WINDOW	NON IMPACT RATED
	AWLS-DS	"O" DIRECT SET	NON IMPACT RATED



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TITLE: AFW FIXED WINDOW & AWLS-DS DIRECT SET WINDOW (HVHZ)(NON-IMPACT)

INSTALLATION & GENERAL NOTES

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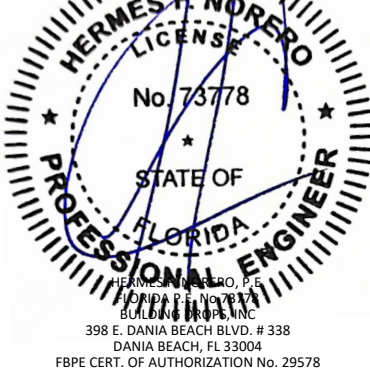
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REMARKS	BY	DATE
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Reason: I am approving this document
Date: 2023.06.14 12:47:18 -0400



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HFN

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NTS

DWG. #:

WSD010

SHEET:

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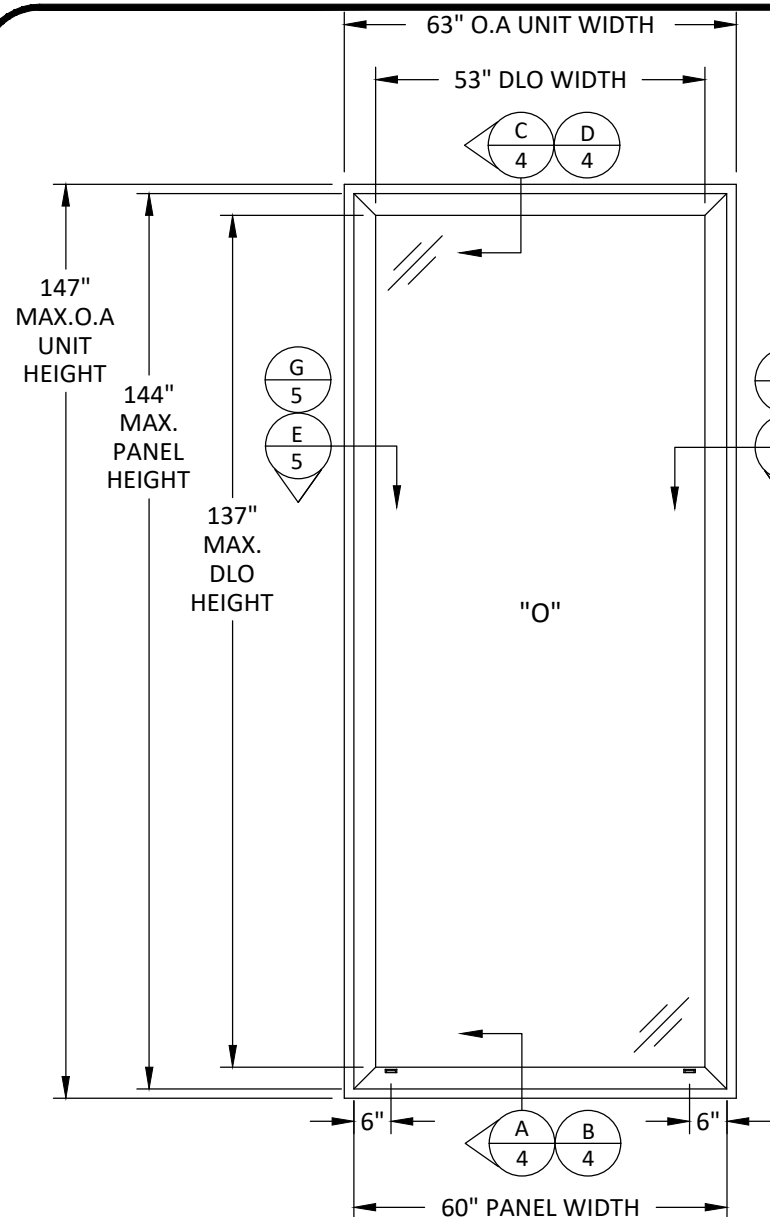
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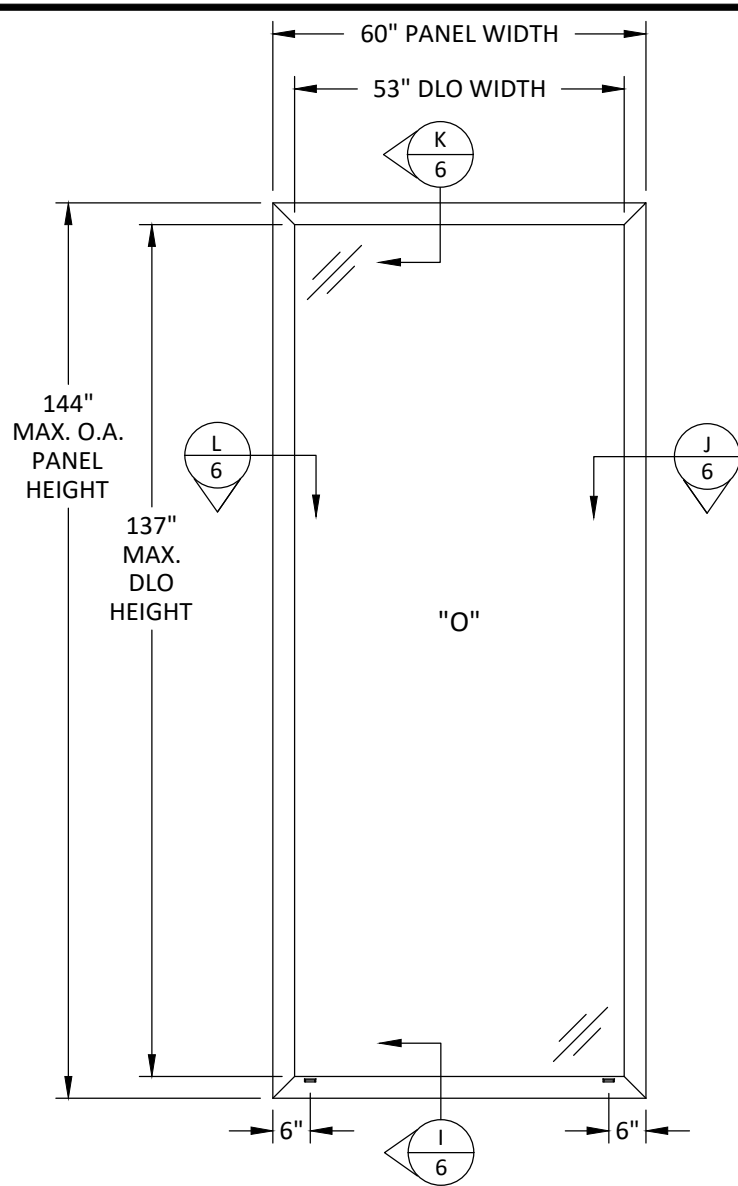
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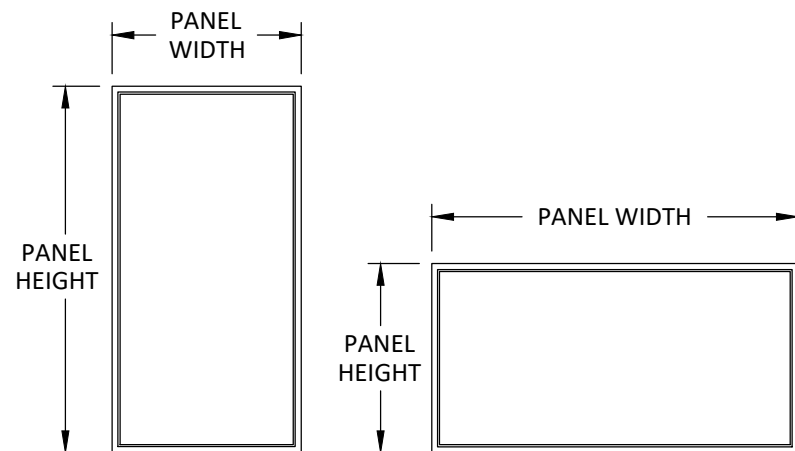
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ELEVATION
AWFW FIXED WINDOW



ELEVATION
AWLS-DS DIRECT SET WINDOW



NOTE:
WINDOW WIDTH AND HEIGHT ARE
INTERCHANGEABLE FOR ALL SIZES SHOWN
HEREIN NOT TO EXCEED MAXIMUM
QUALIFIED SQUARE FOOT AREA.

ALLOWABLE DESIGN PRESSURE TABLE (PSF)			
PANEL WIDTH (IN.)	PANEL HEIGHT (IN.)	+DP	-DP
36	96	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		72.7	72.7
72		66.7	66.7
78		61.5	61.5
84		57.1	57.1
36	102	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		72.7	72.7
72		66.7	66.7
78		61.5	61.5
84		57.1	57.1
36	108	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		72.7	72.7
72		66.7	66.7
78		61.5	61.5
36	114	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		72.7	72.7
72		66.7	66.7
74		64.9	64.9

ALLOWABLE DESIGN PRESSURE TABLE (PSF)			
PANEL WIDTH (IN.)	PANEL HEIGHT (IN.)	+DP	-DP
36	120	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		72.7	72.7
72		66.7	66.7
36	126	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		72.7	72.7
68		70.6	70.6
36	132	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
65		73.8	73.8
36	138	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
62		77.4	77.4
36	144	80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0

DESIGN PRESSURE NOTES:
1. DESIGN PRESSURE SHALL BE LIMITED TO VALUES LISTED IN ABOVE TABLE
BASED ON INDIVIDUAL PANEL SIZE. PANELS SMALLER THAN DIMENSIONS
SHOWN IN TABLE SHALL BE LIMITED TO +/- 80 PSF.



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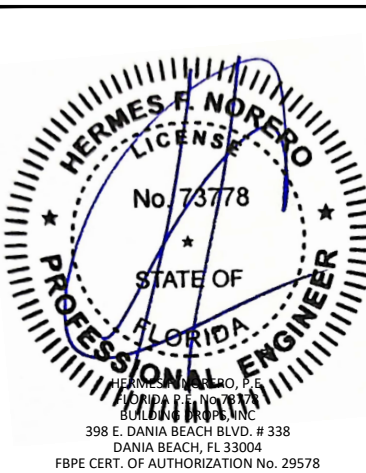
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(HVHZ)/(NON-IMPACT)
ELEVATIONS & DESIGN
PRESSURE TABLE

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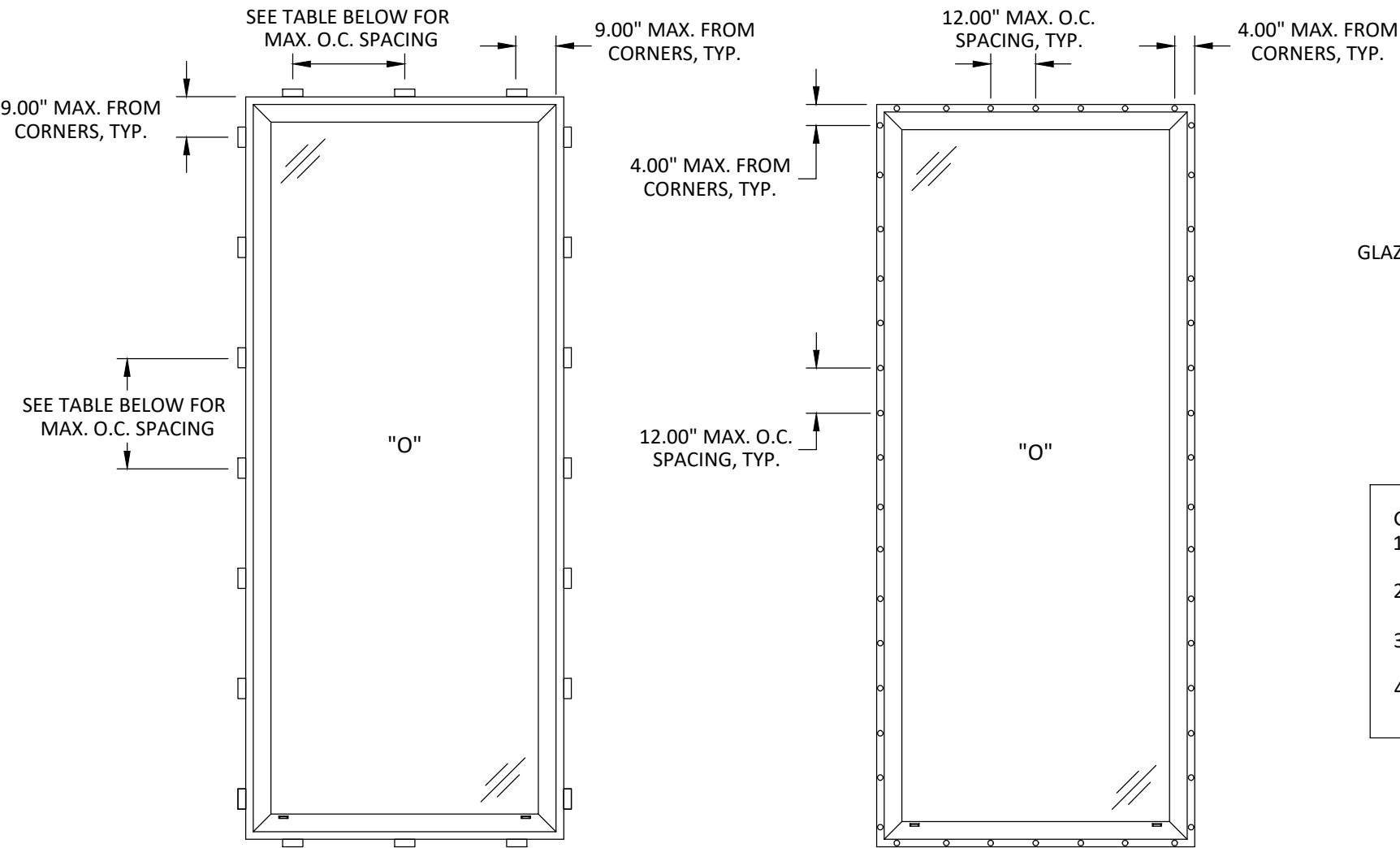
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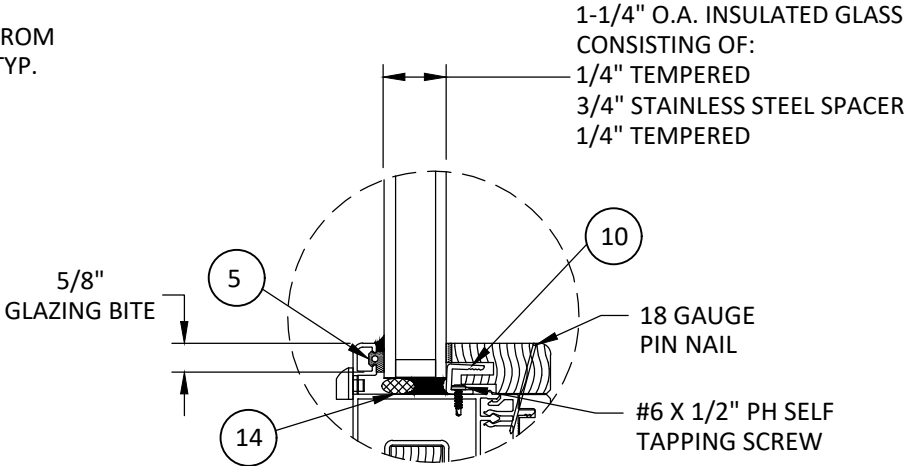
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ANCHOR LAYOUT
AWFW FIXED WINDOW
STRAP INSTALLATION

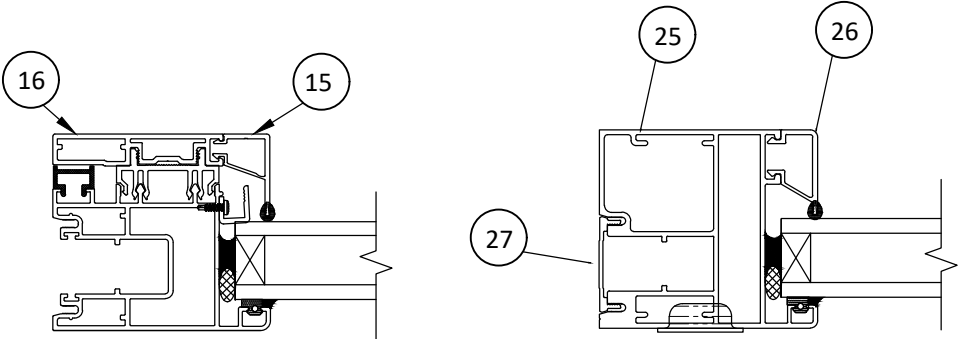
ANCHOR LAYOUT
AWLS-DS FIXED WINDOW
ALUMINUM NAIL FIN INSTALLATION

Anchor Type	Substrate	Max. O.C. Spacing @ Head & Sill	Max. O.C. Spacing @ Jambs
#10 Wood Screw	Wood (Min. SG = 0.55)	15.00"	11.50"
#10 Gr. 5 SMS	Metal Stud	21.00"	21.00"
3/16" ITW Tapcon	Concrete (Min. fc = 3000 psi)	15.00"	11.50"
3/16" ITW Tapcon	Masonry (Min. fc = 2000 psi)	11.25"	8.50"



GLAZING DETAIL

- GLAZING NOTES:
1. GLASS TYPE AND THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS.
 2. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 4. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC



AFW-T & ALS-DS-T

AFW & ALS-DS

- NOTES:
- 1) DETAIL SHOWN IS REPRESENTATIVE OF THE COMPONENTS USED AT ALL MEMBERS OF THE FIXED & DIRECT SET WINDOW.
 - 2) ALUMINUM PROFILES MAY BE USED AS AN ALTERNATIVE TO ANY WOOD PROFILES IN THE CONFIGURATIONS APPROVED WITHIN THIS DOCUMENT.

**ALUMINUM THERMALLY BROKEN OPTION &
ALUMINUM NON-THERMALLY BROKEN OPTION**



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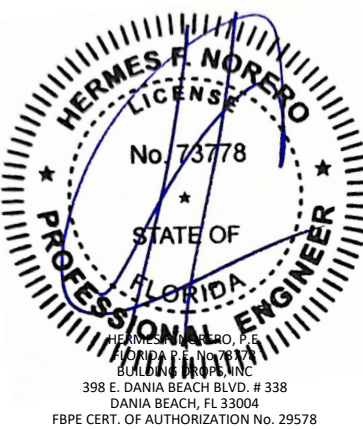
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ANCHOR LAYOUT
& GLAZING DETAIL

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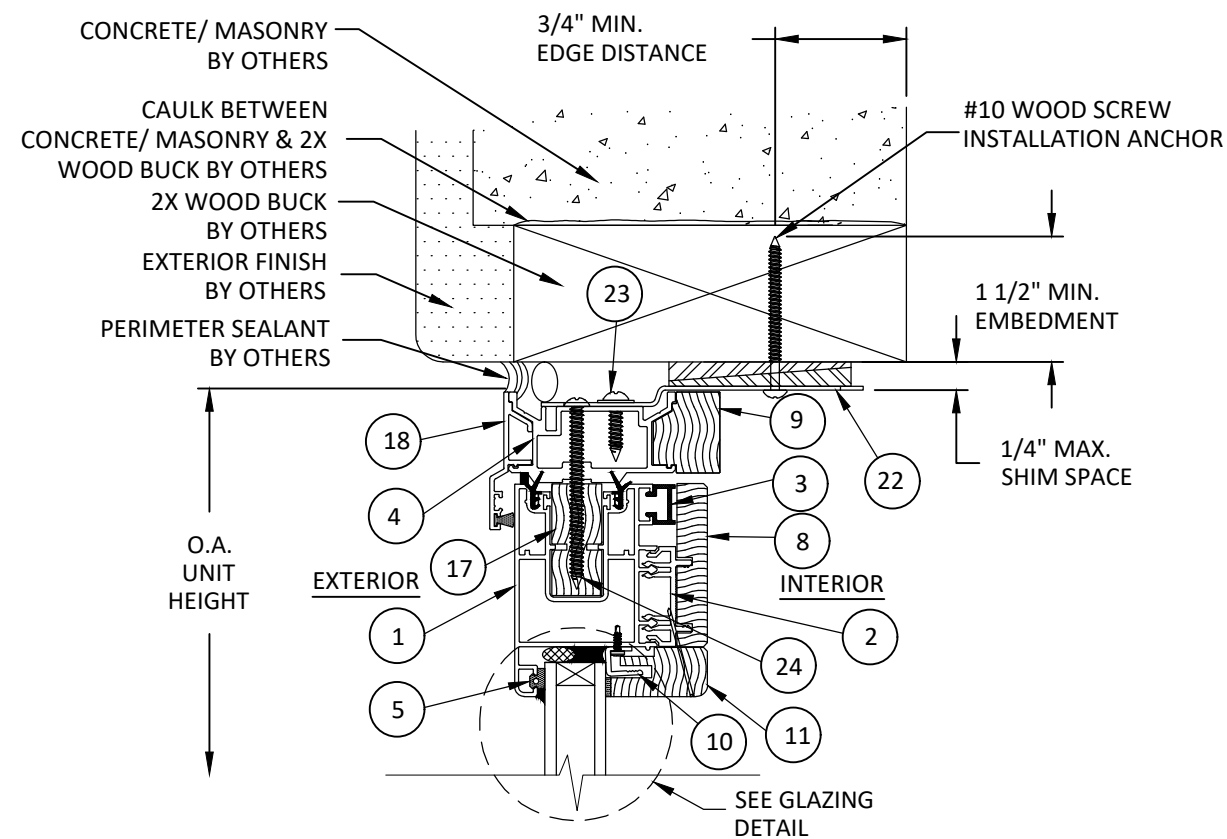


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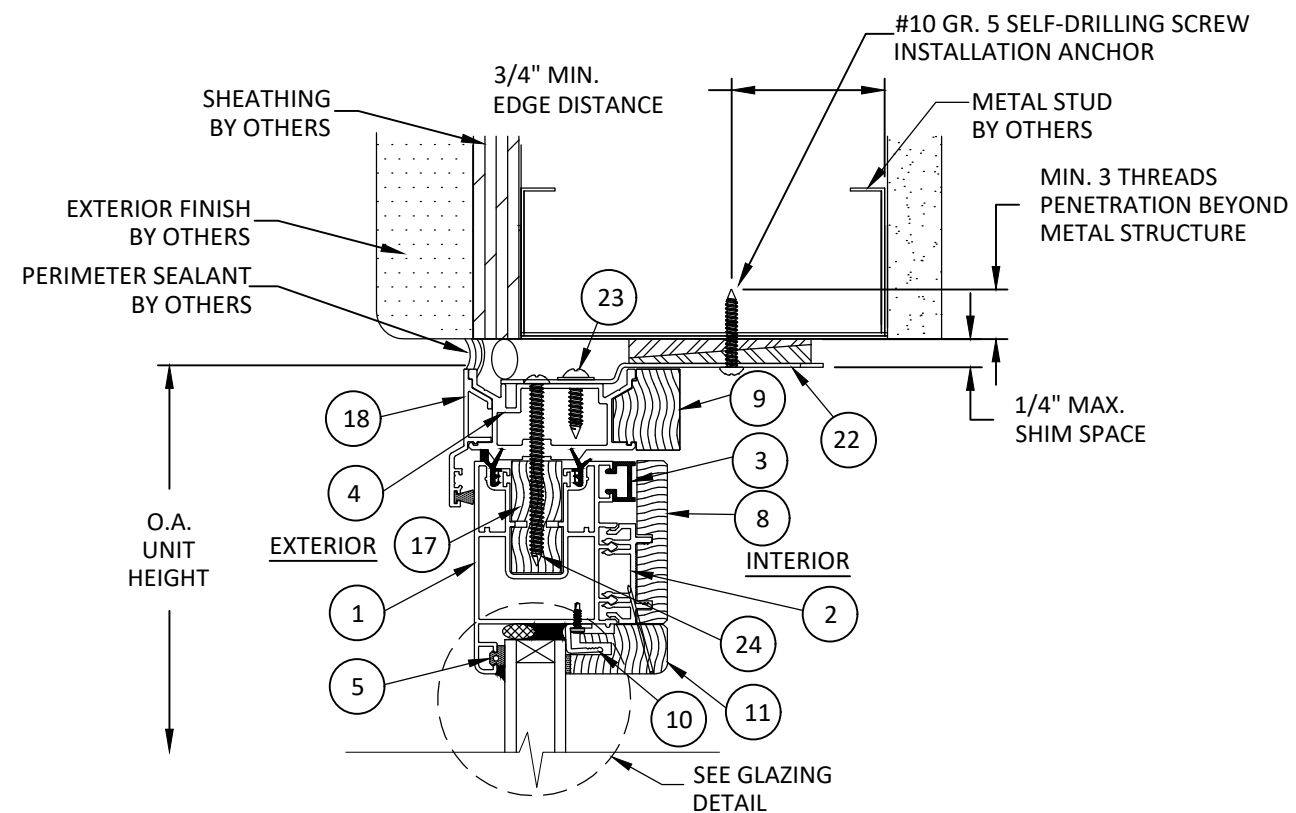
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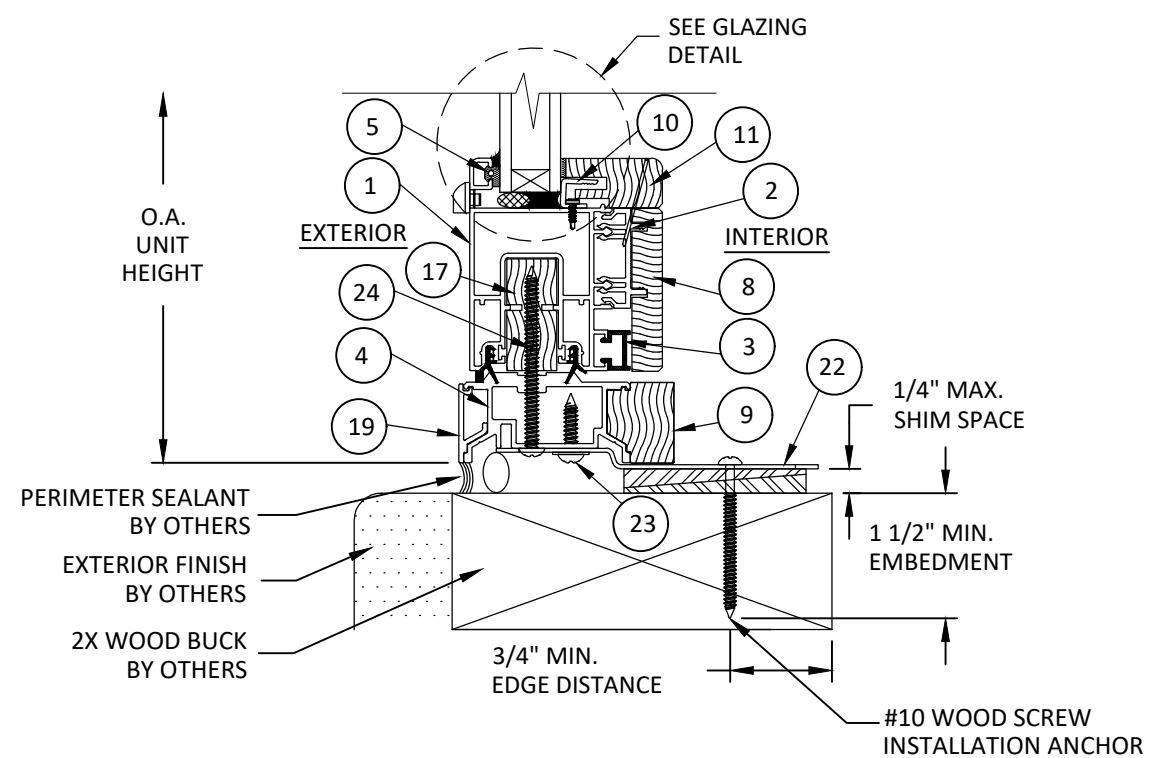
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VERTICAL SECTION

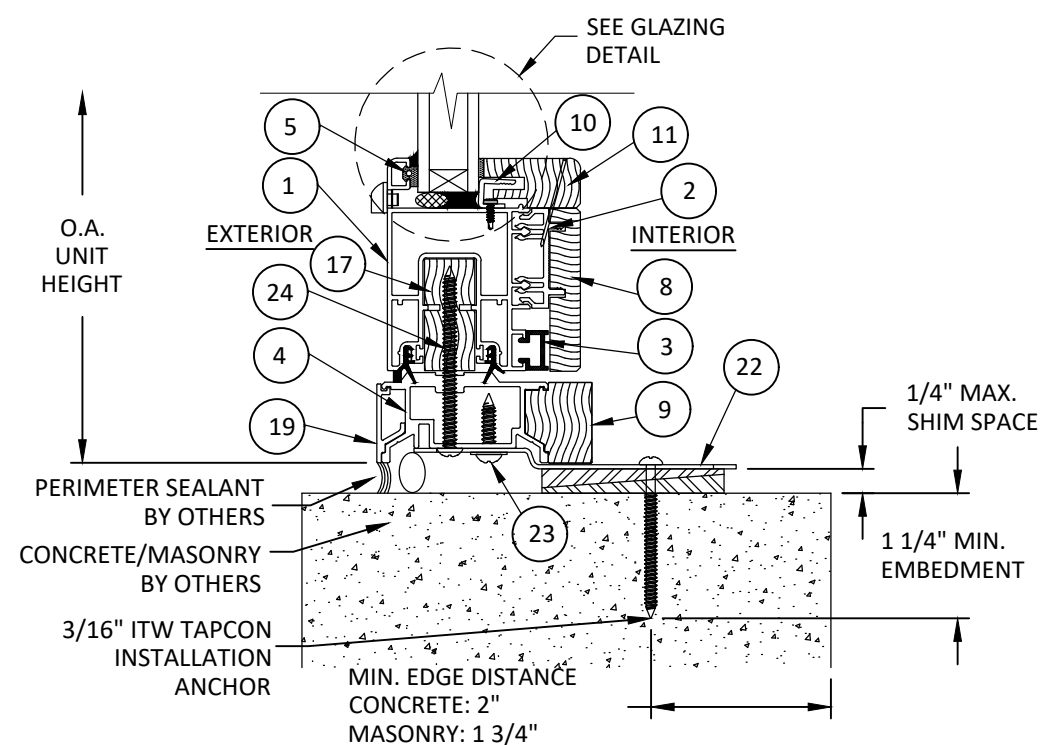
HEAD - 2X WOOD BUCK
FIXED WINDOW (AWFW)



D 4 **VERTICAL SECTION**



A
4 **VERTICAL SECTION**
SILL - 2X WOOD FRAMING
FIXED WINDOW (AWFW)



B 4 VERTICAL SECTION

SILL - MASONRY/CONCRETE
FIXED WINDOW (AWFW)



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 (HVHZ)(NON-IMPACT)

VERTICAL SECTIONS

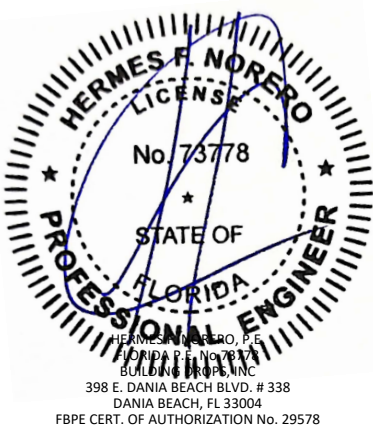
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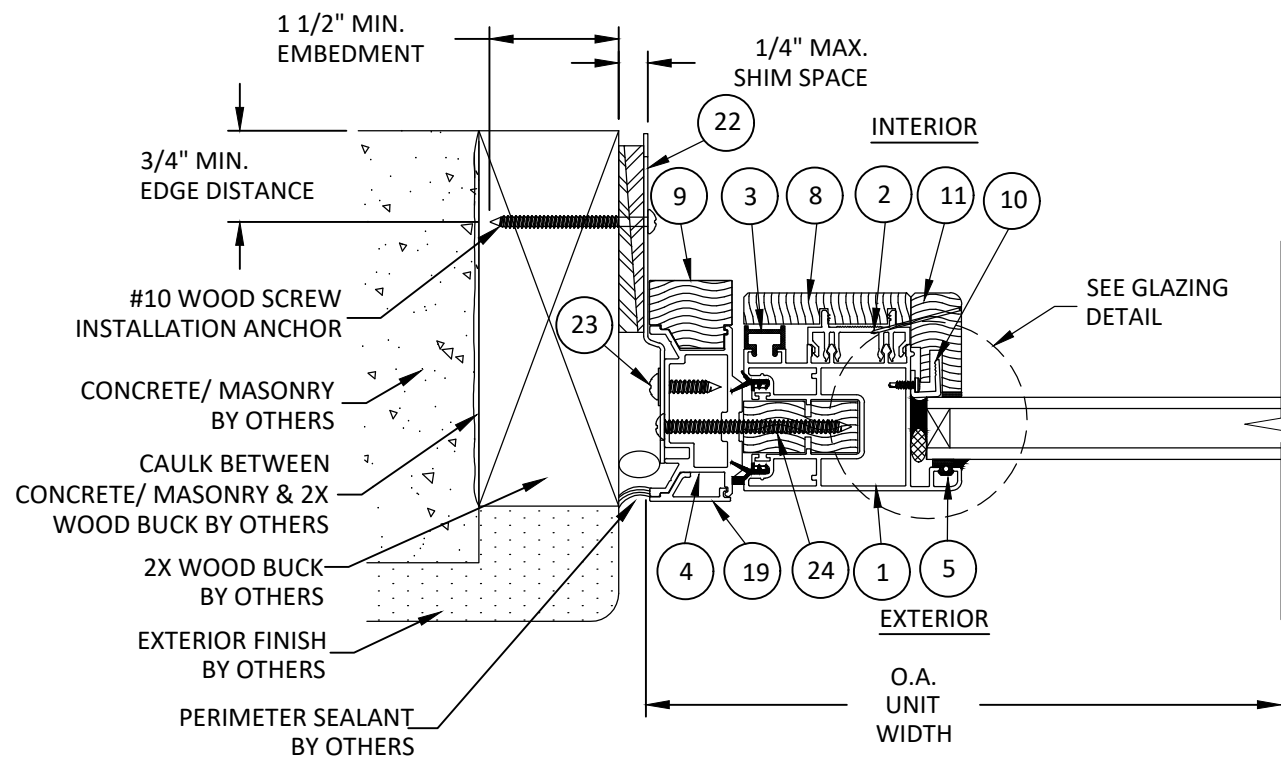
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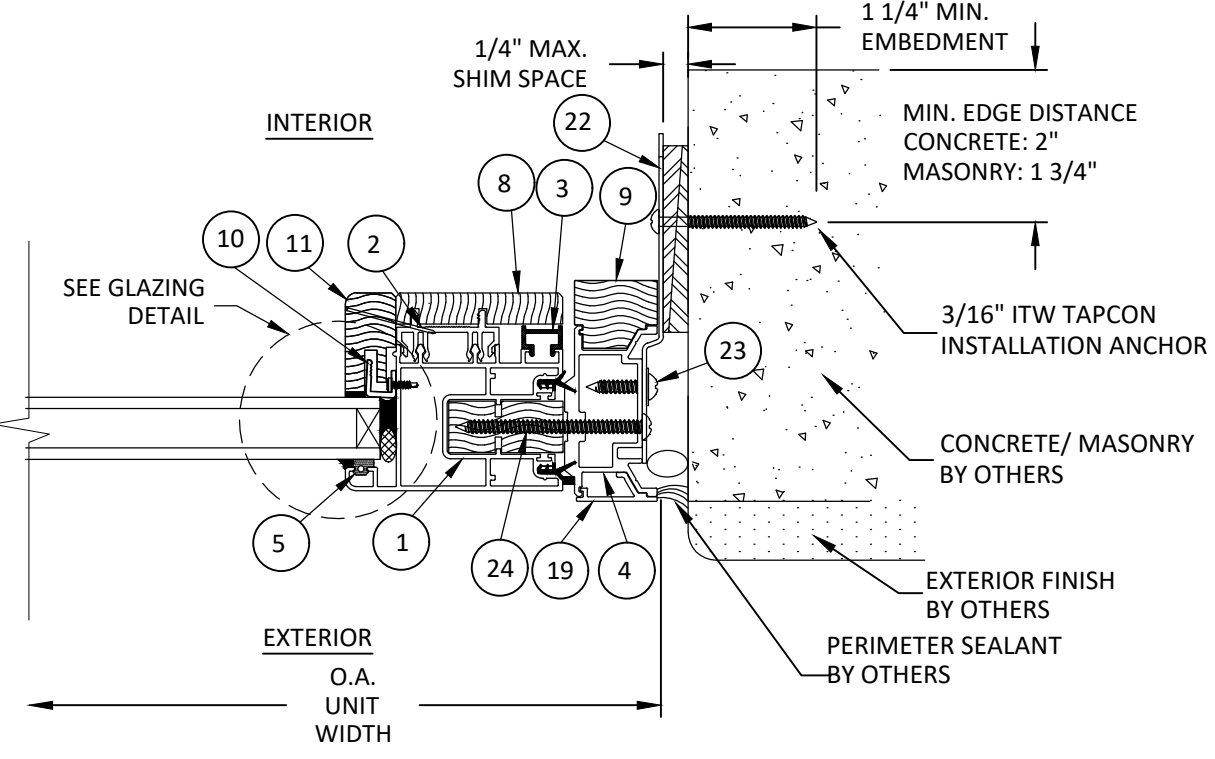
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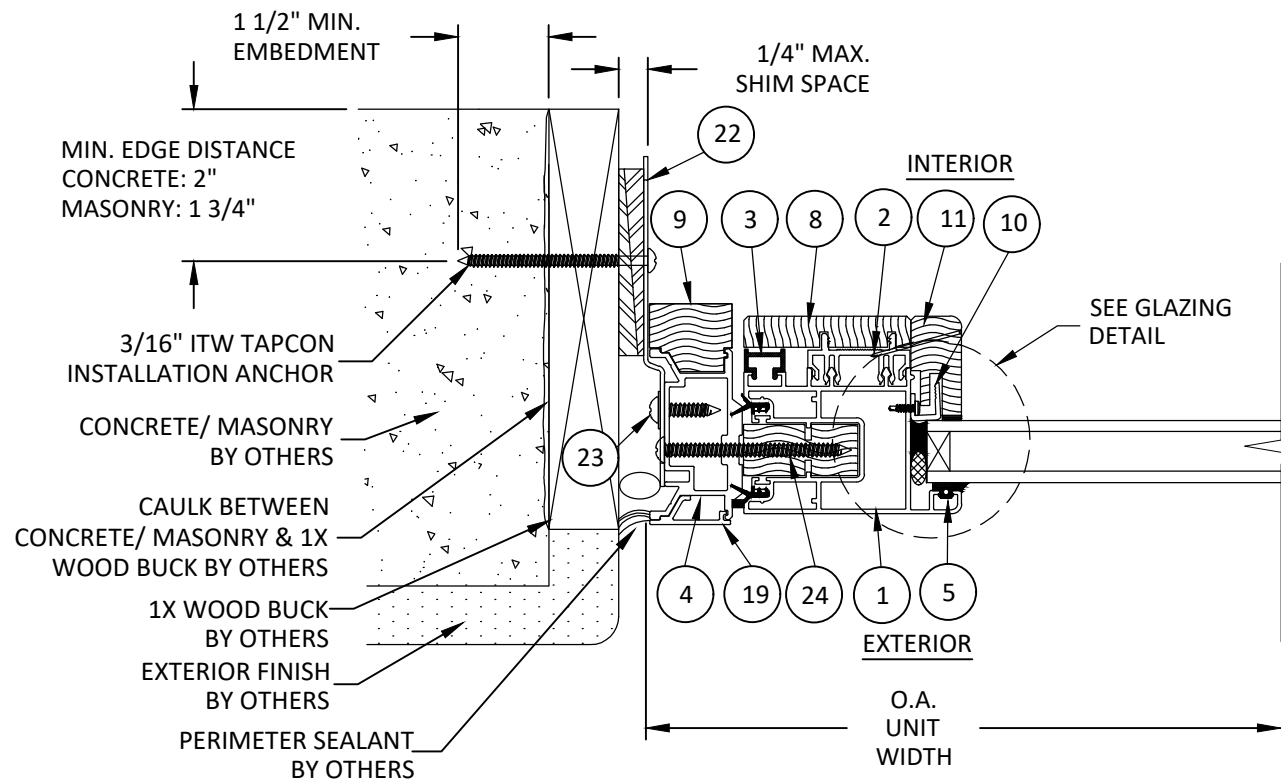
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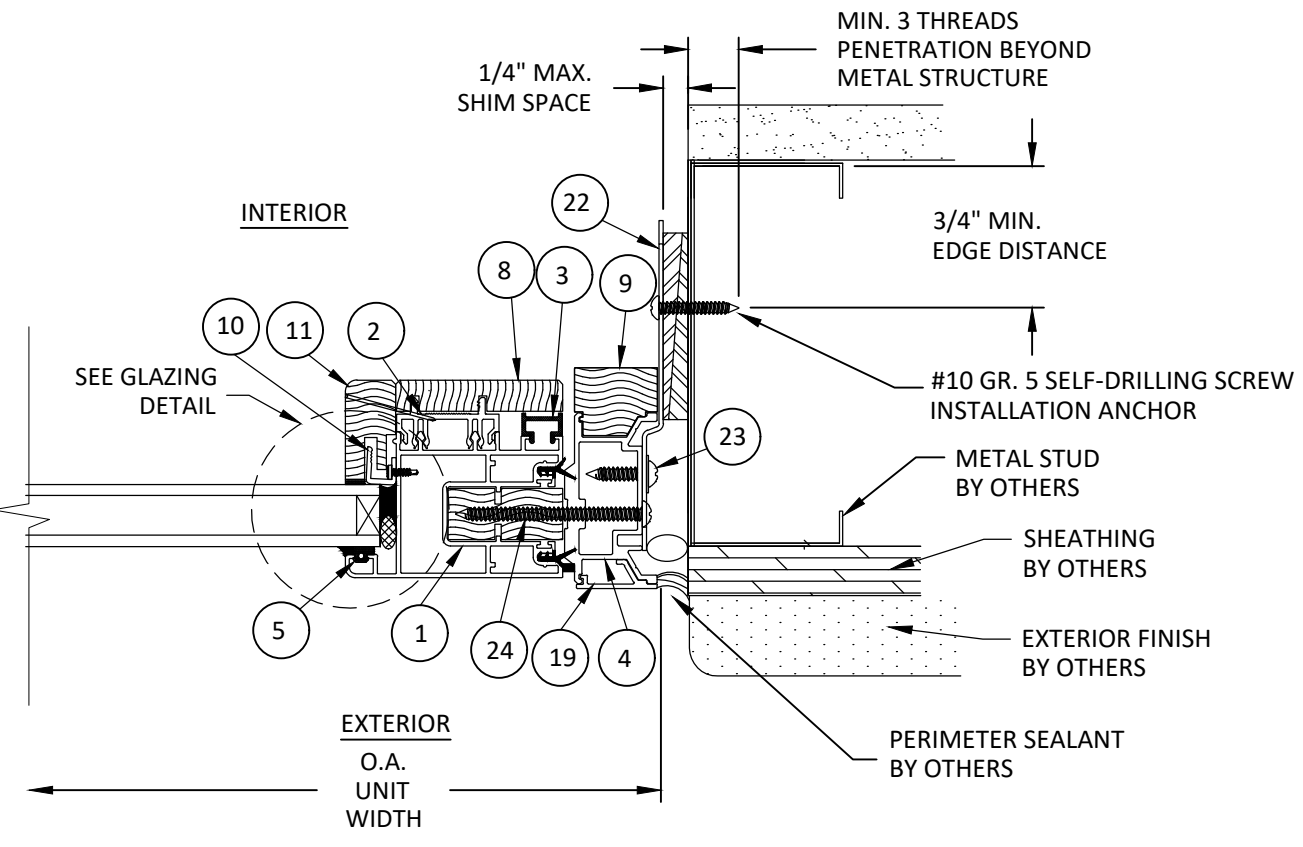
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5 **HORIZONTAL SECTION**
JAMB - 2X WOOD BUCK
FIXED WINDOW (AWFW)



H
5 **HORIZONTAL SECTION**
JAMB - MASONRY/CONCRETE
FIXED WINDOW (AWFW)



E
5 **HORIZONTAL SECTION**
JAMB - 1X WOOD - MASONRY/CONCRETE
FIXED WINDOW (AWFW)



F
5 **HORIZONTAL SECTION**
JAMB - METAL STUD
FIXED WINDOW (AWFW)



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HORIZONTAL SECTIONS

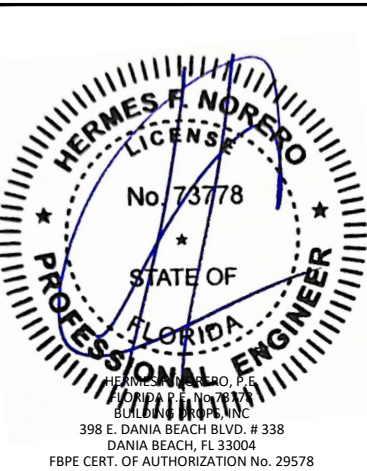
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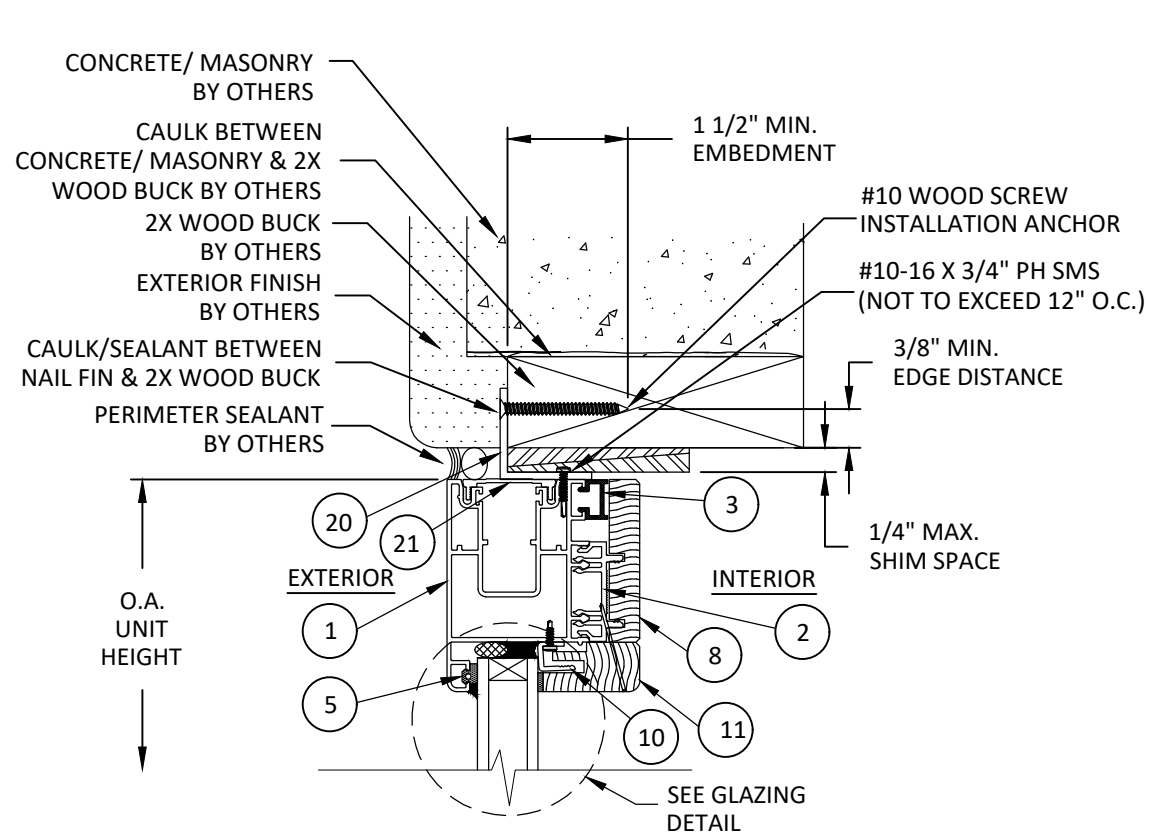
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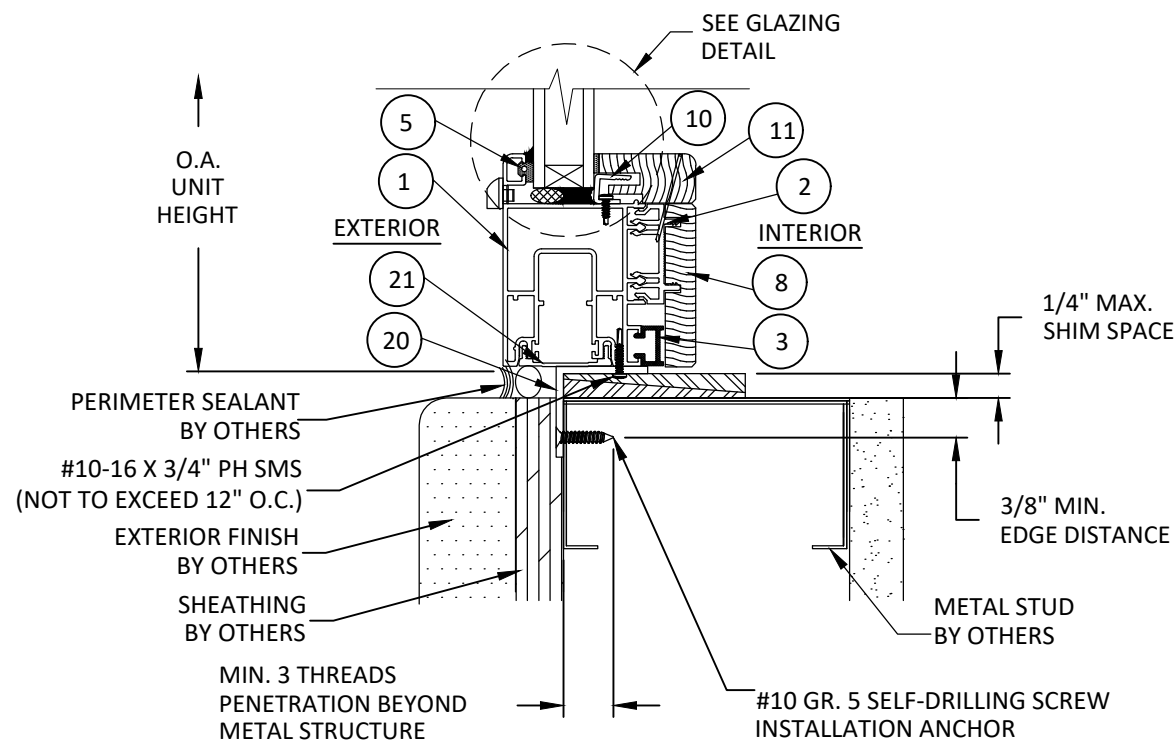
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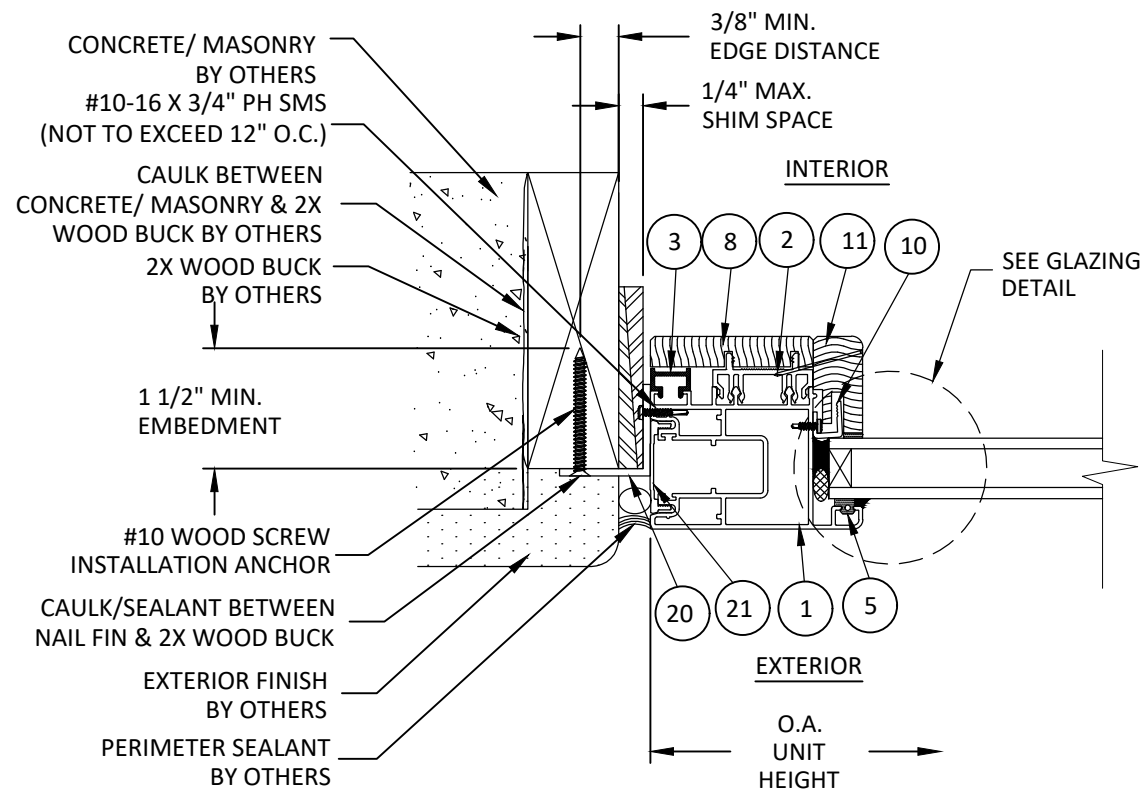
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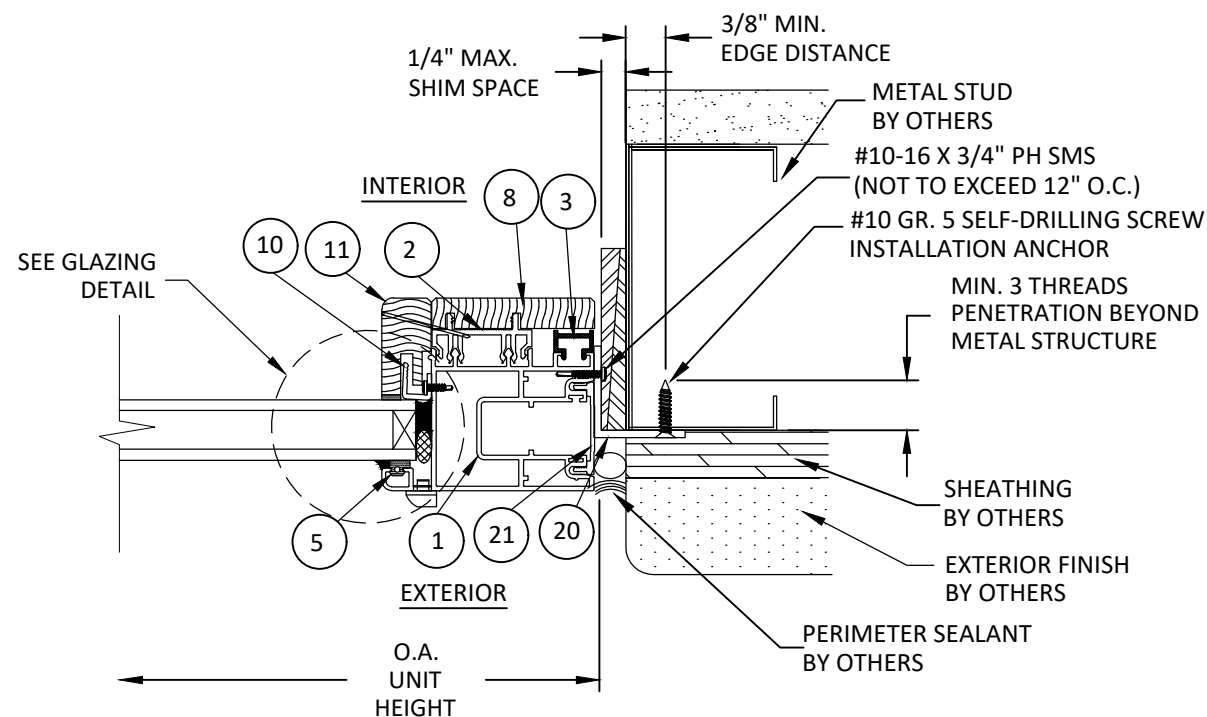
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6 VERTICAL SECTION
HEAD - 2X WOOD BUCK
DIRECT SET WINDOW (AWLS-DS)



I
6 VERTICAL SECTION
SILL - METAL STUD
DIRECT SET WINDOW (AWLS-DS)



L
6 HORIZONTAL SECTION
JAMB - 2X WOOD BUCK
DIRECT SET WINDOW (AWLS-DS)



J
6 HORIZONTAL SECTION
JAMB - METAL STUD
DIRECT SET WINDOW (AWLS-DS)



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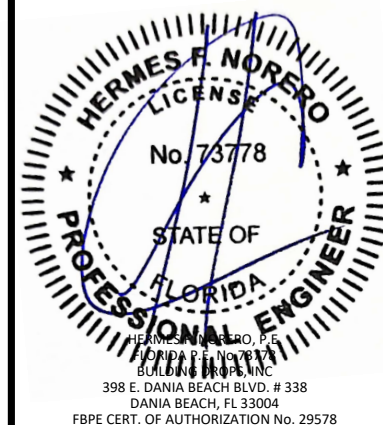
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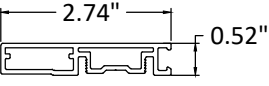
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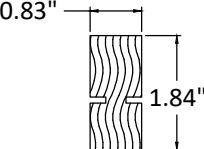
z:\projects\weiland_sliding doors\cc-23-0278 - fbr 2023 (8th edition) code change.dwg (P22225) (wsd010.dwg)

BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	MATERIAL	PART NO.
1	STILE / RAIL	6063-T5	1020
2	LARGE CLIP	PVC	40126
3	H-BAR	PVC	40146
4	JAMB	6063-T5	1022
5	GLAZING GASKET	SANTOPRENE	40106
6	SETTING BLOCKS 1/4" - 1 5/8" X 2"	NEOPRENE	NSB 85D
7	PVC SPACER	PVC	40244
8	WOOD CLADDING	WOOD	5001
9	INTERIOR WOOD FASCIA	WOOD	5006
10	J-CLIP (ATTACHED TO PANEL WITH #6 X 1/2" TEK SCREWS, 3/4" FROM CORNERS & 7" O.C.)	PVC	40201
11	I.G. WOOD GLAZING BEAD	WOOD	5003a-e
12	NOT USED	-	-
13	DOW 983 CAP BEAD	SILICONE	-
14	DOW 983	SILICONE	-
15	ALS GLASS STOP	6063-T5	1242
16	ALUMINUM CLADDING	6063-T5	1241
17	WOOD BLOCK	WOOD	5099
18	DRIP EDGE	6063-T5	1183
19	FASCIA EXT. SIDE JAMB	6063-T5	1076
20	NAILING FIN	6063-T5	-
21	COVER PLATE	6063-T5	1015
22	NAILING STRAP	STEEL	-
23	#10 X 1" PH SMS W/ WASHER	STEEL	-
24	#12 X 3" PH SMS	STEEL	-
25	ALS STILE / RAIL	6063-T5	-
26	ALS GLASS STOP	6063-T5	-
27	ALS RAIL/STILE COVER	6063-T5	-

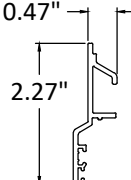
16 ALUMINUM CLADDING 6063-T5
TYPICAL WALL THICKNESS: .075"



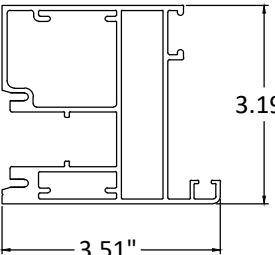
17 WOOD BLOCK



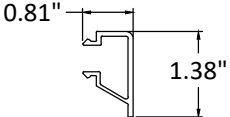
18 FASCIA EXT. SIDE HEAD 6063-T5



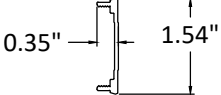
25 ALS STILE / RAIL 6063-T5
TYPICAL WALL THICKNESS: .079"



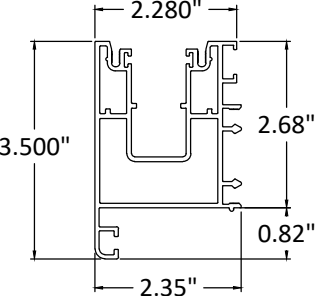
26 ALS GLASS STOP 6063-T5
TYPICAL WALL THICKNESS: .079"



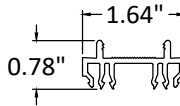
27 ALS RAIL/STILE COVER 6063-T5
TYPICAL WALL THICKNESS: .060"



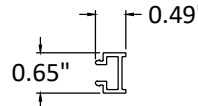
1 STILE / RAIL 6063-T5
TYPICAL WALL THICKNESS: .075"



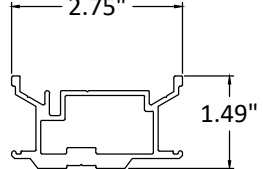
2 LARGE CLIP PVC



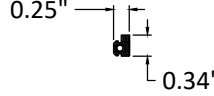
3 H-BAR PVC



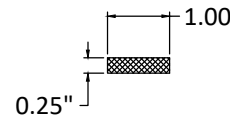
4 TOP GUIDE 6063-T5
TYPICAL WALL THICKNESS: .075"



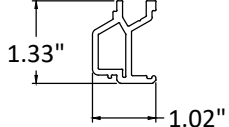
5 GLAZING GASKET SANTOPRENE



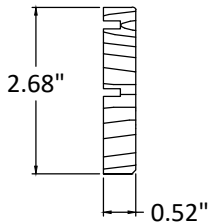
6 SETTING BLOCK NEOPRENE



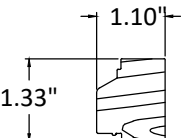
7 PVC SPACER PVC



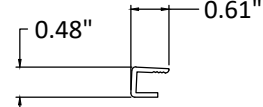
8 WOOD CLADDING WOOD



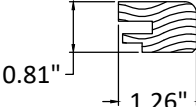
9 INTERIOR WOOD FASCIA WOOD



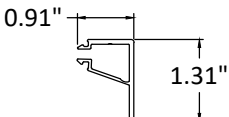
10 J-CLIP PVC



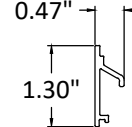
11 I.G. GLAZING BEAD WOOD



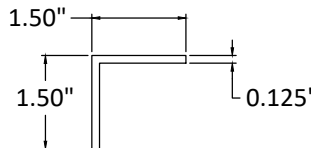
15 I.G. GLASS STOP 6063-T5
TYPICAL WALL THICKNESS: .079"



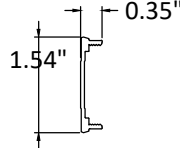
19 FASCIA EXT. SIDE JAMB 6063-T5



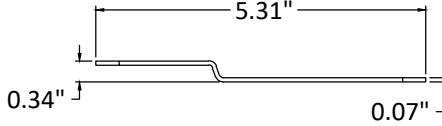
20 NAILING FIN 6063-T5

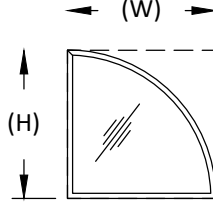


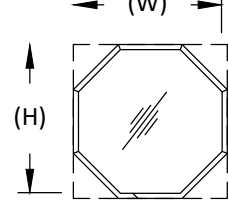
21 COVER PLATE 6063-T5

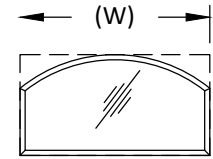


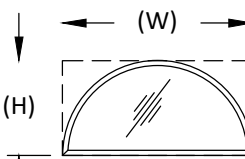
22 NAILING STRAP GALVANIZED MILD STEEL

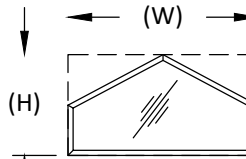


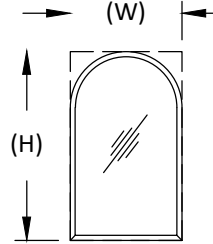












NOTES:
1. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THESE ALTERNATE CONFIGURATIONS IN AREAS REQUIRING IMPACT RESISTANCE.
2. UNITS OF ANY SHAPE ARE ALLOWED PROVIDED CONSTRUCTION, GLAZING, & ANCHORAGE ARE PER DETAILS SHOWN HEREIN. ALL SHAPED UNITS SHALL FIT WITHIN THE RECTANGULAR AREAS AS SHOWN AND VERIFIED BY OBTAINING THE ALLOWABLE PERFORMANCE RATING FROM TABLE ON SHEET 2.



1319 ROCKY POINT DR #100
OCEANSIDE, CA 92056
PH: (760) 722.8828 FX: (760) 722.8838

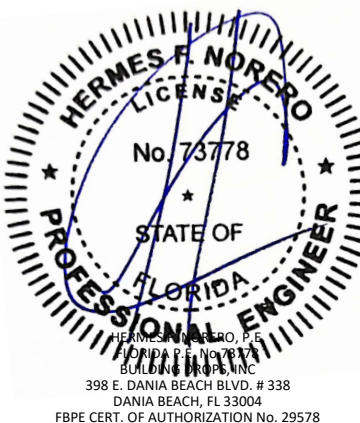
TITLE: AFWF FIXED WINDOW & AWLS-DS DIRECT SET WINDOW (HVHZ)/(NON-IMPACT)
BOM & COMPONENTS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 999-9478
FX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
8TH FBC CODE CHANGE	MG	03.07.23

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

FL #:

FL22225

DATE: 03.28.17

DWG. BY: LS	CHK. BY: HFN
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SCALE: NTS

DWG. #: WSD010

SHEET:

7 OF 7