

KAWNEER COMPANY, INC.

AA250/AA425 THERMAL ENTRANCE DOOR (WZ3)(IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 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.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- 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 - STRENGTH CONFORMANCE TO ASTM C-90, WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - GROUT-FILLED CMU-UNIT STRENGTH CONFORMS TO ASTM C90 WITH MINIMUM COMPRESSIVE STRENGTH OF 200 PSI AND FROUT CONFIRMS TO ASTM C476,MINUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI
 - STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 12 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

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:
 - ASTM E330-14
 - ASTM E331-00(09)
 - ASTM E283-04(12)
 - AAMA 1304-05
 - ASTM E1886-13A
 - ASTM E1996-17
- 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 NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE ON WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE ON WIND ZONE 4.
- DOOR FRAME MATERIAL: ALUMINUM 6063-T5
- ALL STRUCTURAL MATERIALS & DISSIMILIAR 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.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 7 GLAZING DETAILS.
- DOOR CONFIGURATIONS MAY UTILIZE BUTT HINGES AS DESCRIBED HEREIN OR CONTINUOUS HINGES INTERCHANGEABLY.
- ALLOWABLE CONFIGURATIONS: X (SINGLE DOOR) OR XX (DOUBLE DOOR) WITH OR WITHOUT TRANSOMS.

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DESIGN PRESSURE TABLE		
CONFIGURATION	DESIGN PRESSURE	IMPACT RATING
SINGLE DOORS AA250 (X)	+/-45	LARGE & SMALL MISSILE IMPACT
DOUBLE DOORS AA250 (XX)	+/-45	
SINGLE DOORS AA425 (X)	+/-50	
DOUBLE DOORS AA425 (XX)	+/-50	



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INSTALLATION & GENERAL NOTES

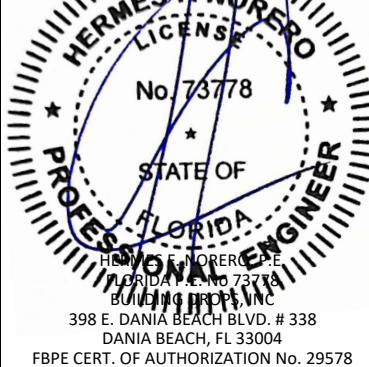
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REMARKS	BY	DATE
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Reason: I am approving this document
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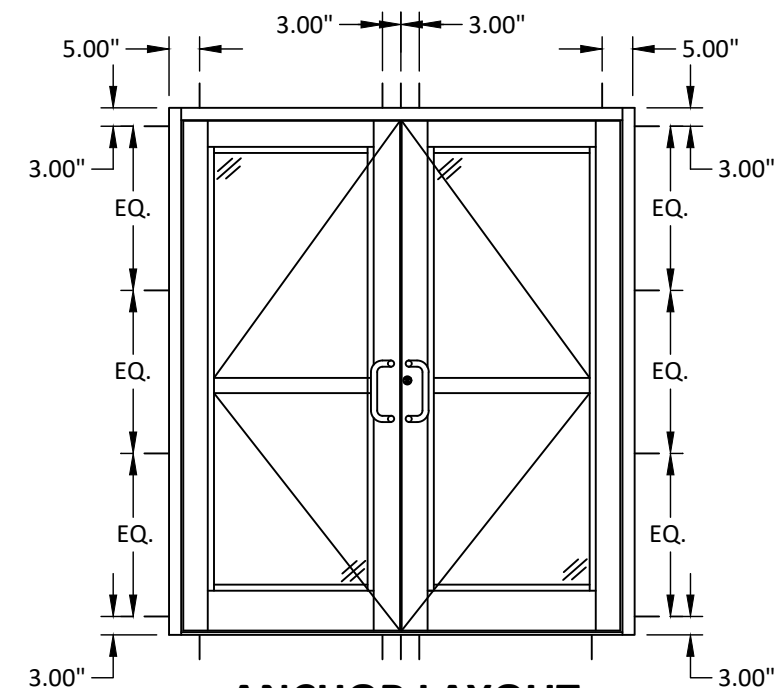
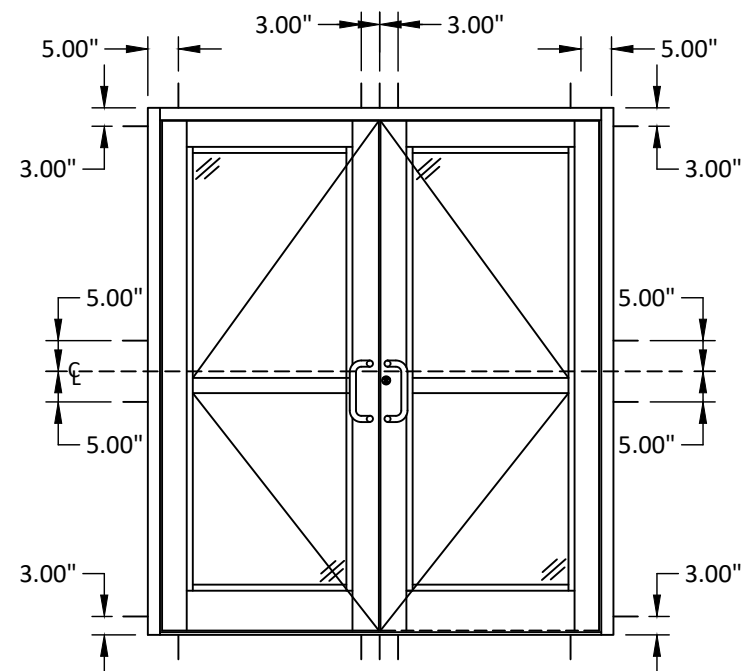
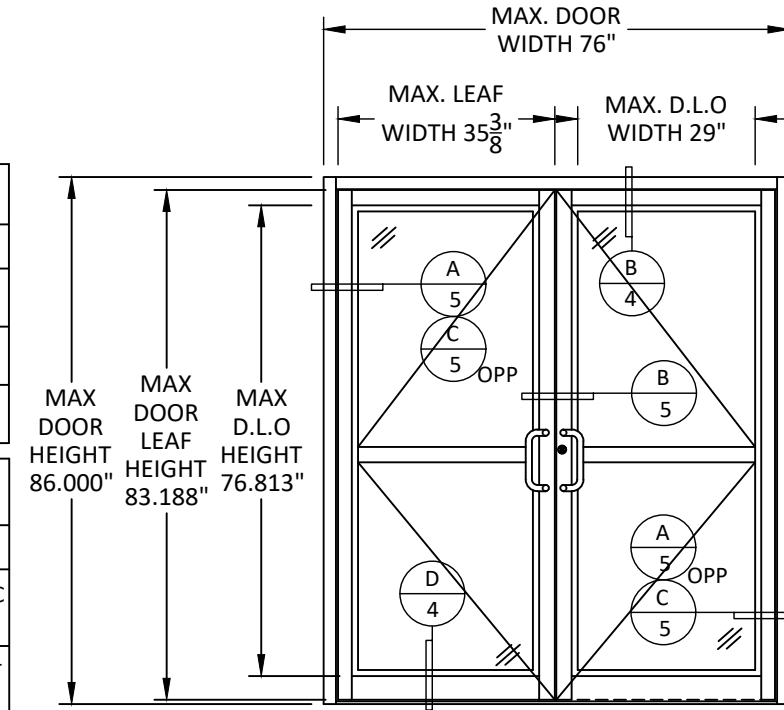
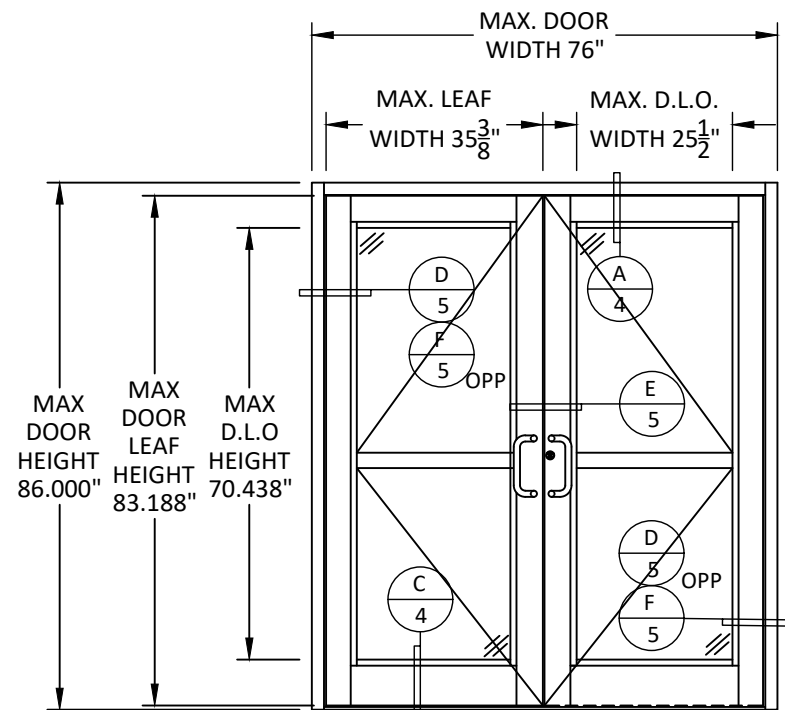
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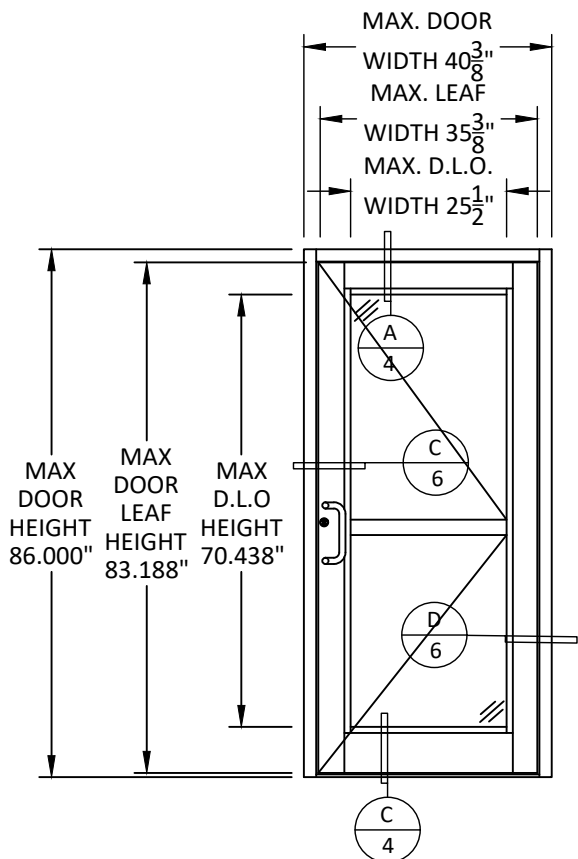
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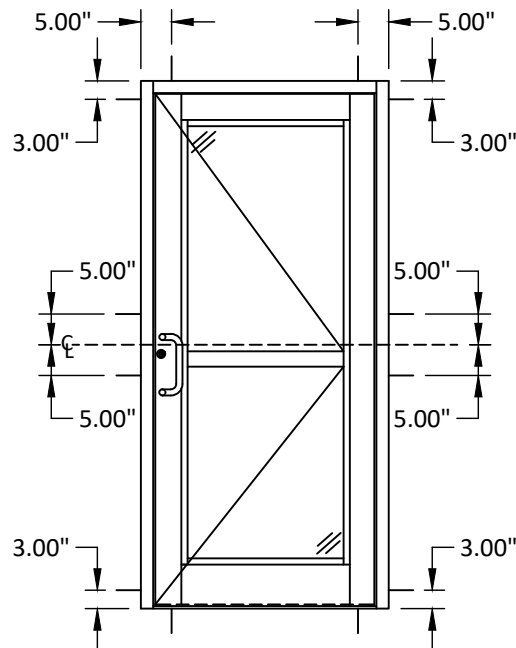
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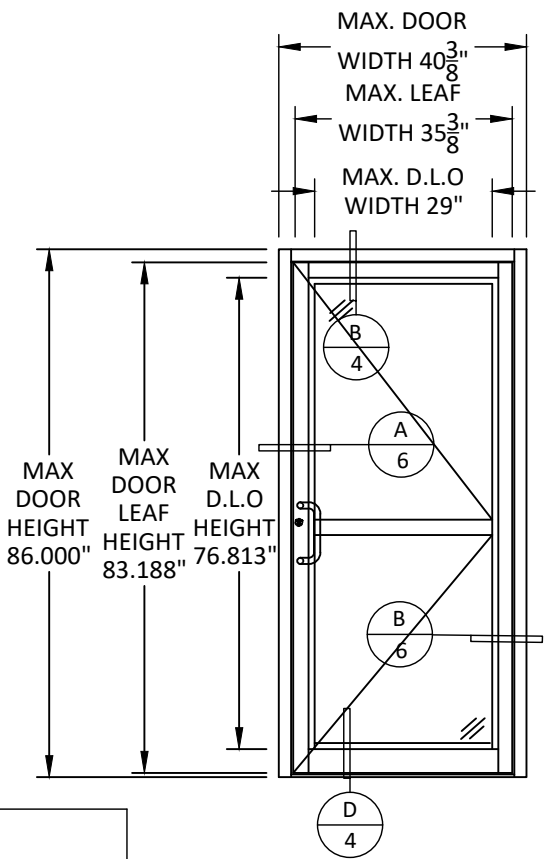


ELEVATION
AA425 SINGLE DOOR

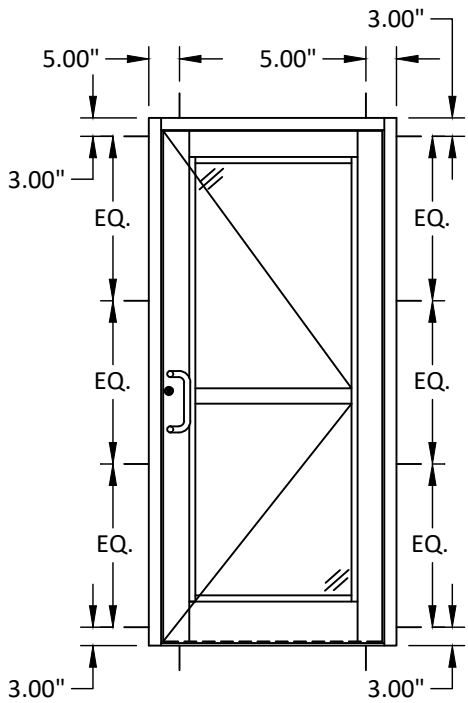


ANCHOR LAYOUT
(BUTT OR PIVOT HINGES)
TYPICAL FOR AA425 & AA250

TABLE 3-ANCHOR SCHEDULE				
ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
#14 WOOD SCREW	MIN. S.G.= 0.55 WOOD	1-1/2"	1"	-
1/4" CONCRETE SCREW	CONCRETE F'C=3000 PSI MIN.	1-1/4"	2-1/2"	DEWALT/ELCO ULTRACONS, ITW RED-HEADS, HILTI KWIK-CON II.
1/4" CONCRETE SCREW	C-90 HOLLOW/FILLED BLOCK AT JAMBS F'M=2000 PSI MIN.	1-3/4"	2-1/2"	DEWALT/ELCO ULTRACONS, ITW RED-HEADS, HILTI KWIK-CON II.
1/4" DIA. SELF-DRILLING SCREWS (GRADE 5)	STEEL: 12 GA. MIN., Fy=36KSI MIN. ALUM: 1/8" MIN, 6063-T5 MIN	3 THREADS PENETRATION BEYOND METAL STRUCTURE	3/4"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED



ELEVATION
AA250 SINGLE DOOR



ANCHOR LAYOUT
(CONTINUOUS HINGES)
TYPICAL FOR AA425 & AA250



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ELEVATIONS AND ANCHOR LAYOUT

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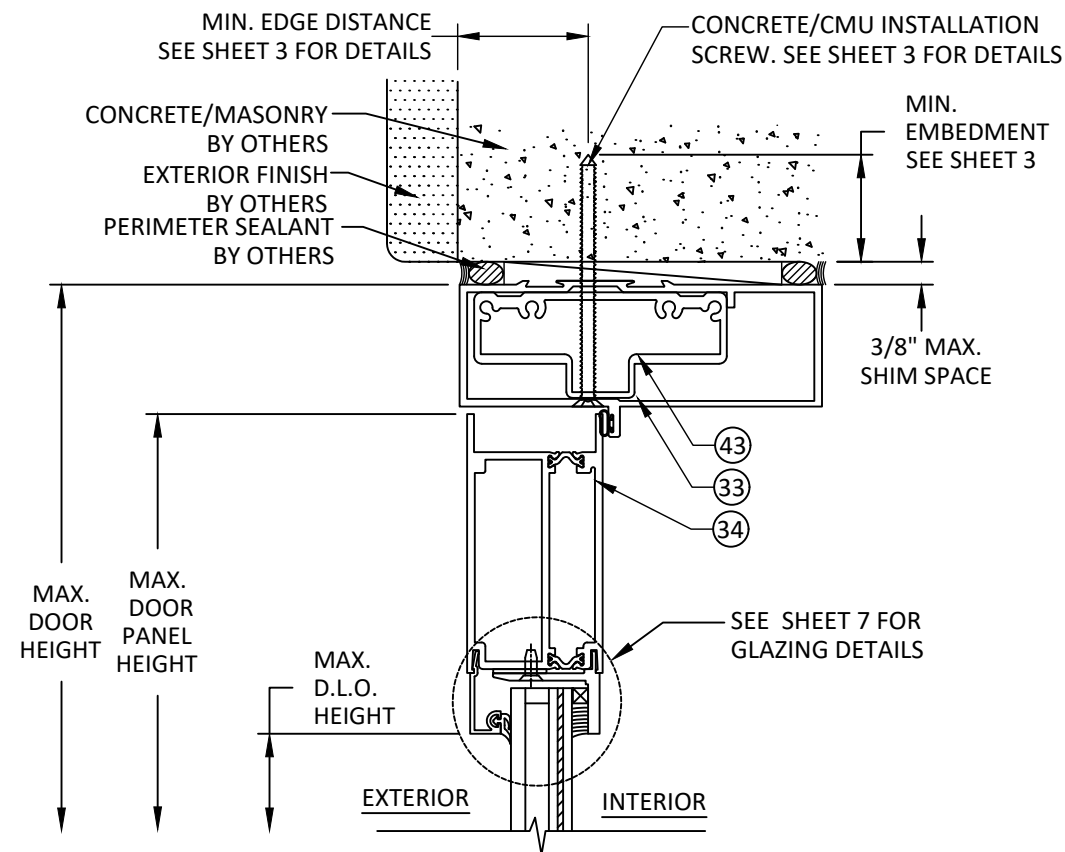
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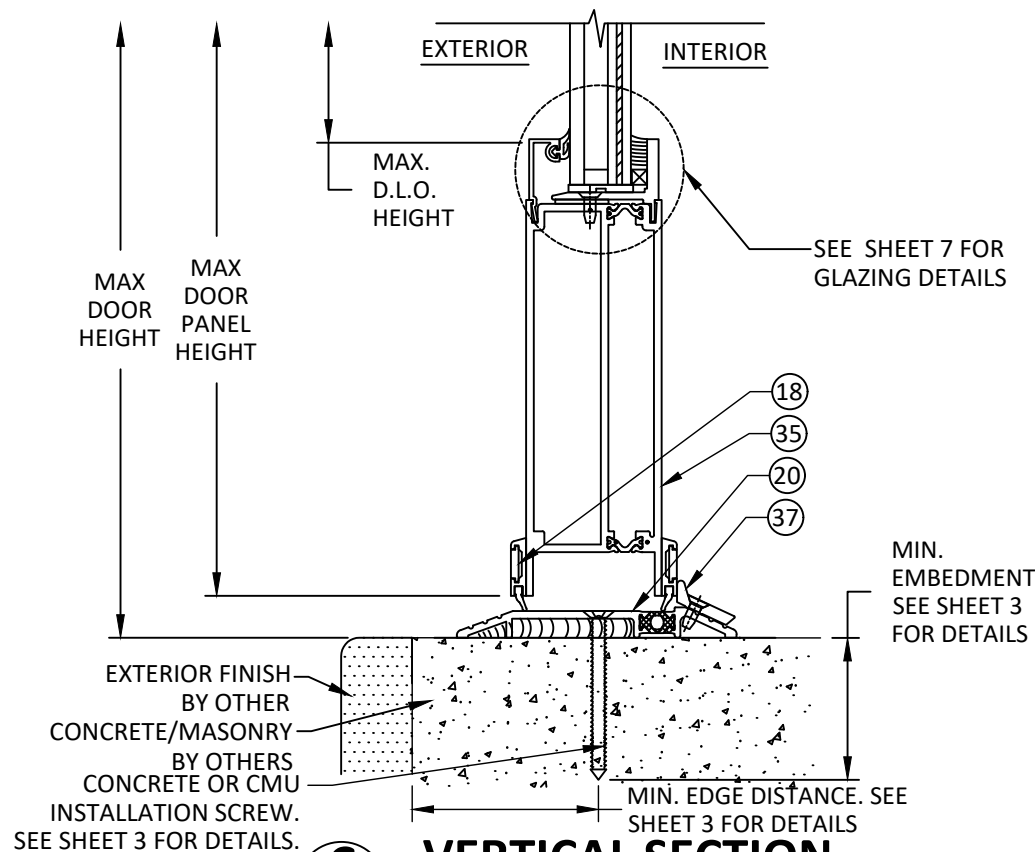
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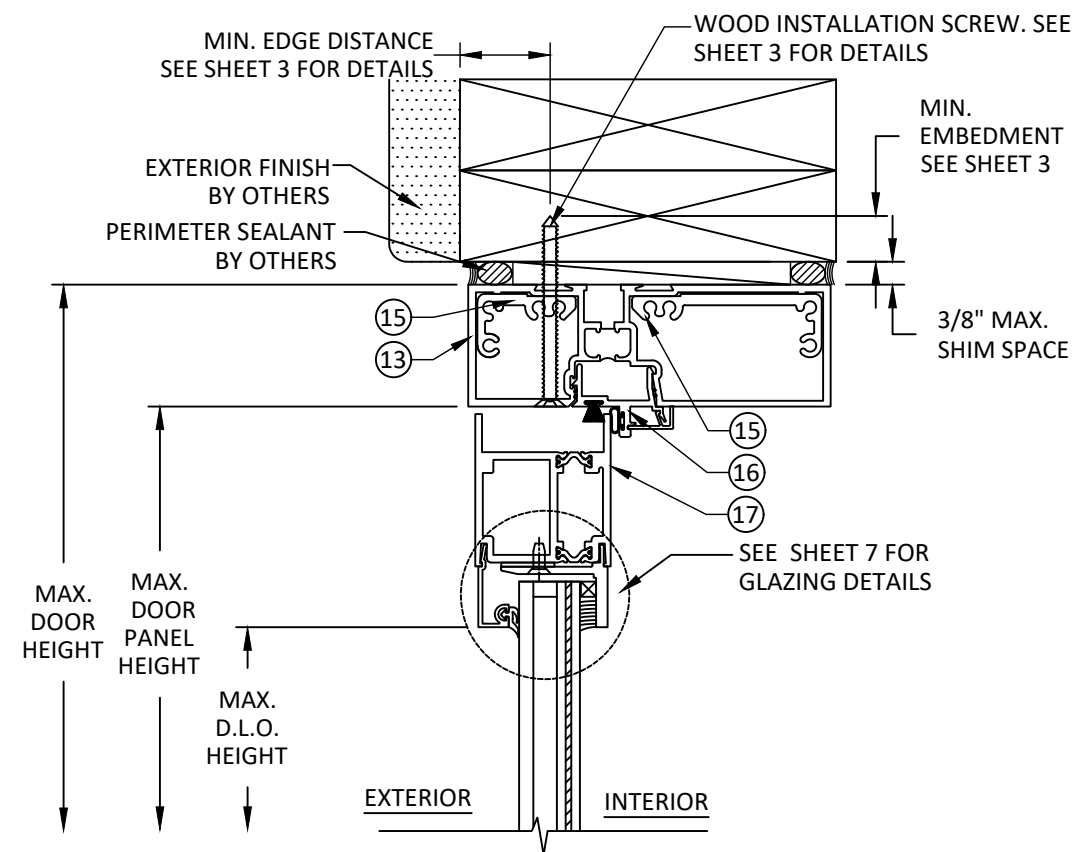
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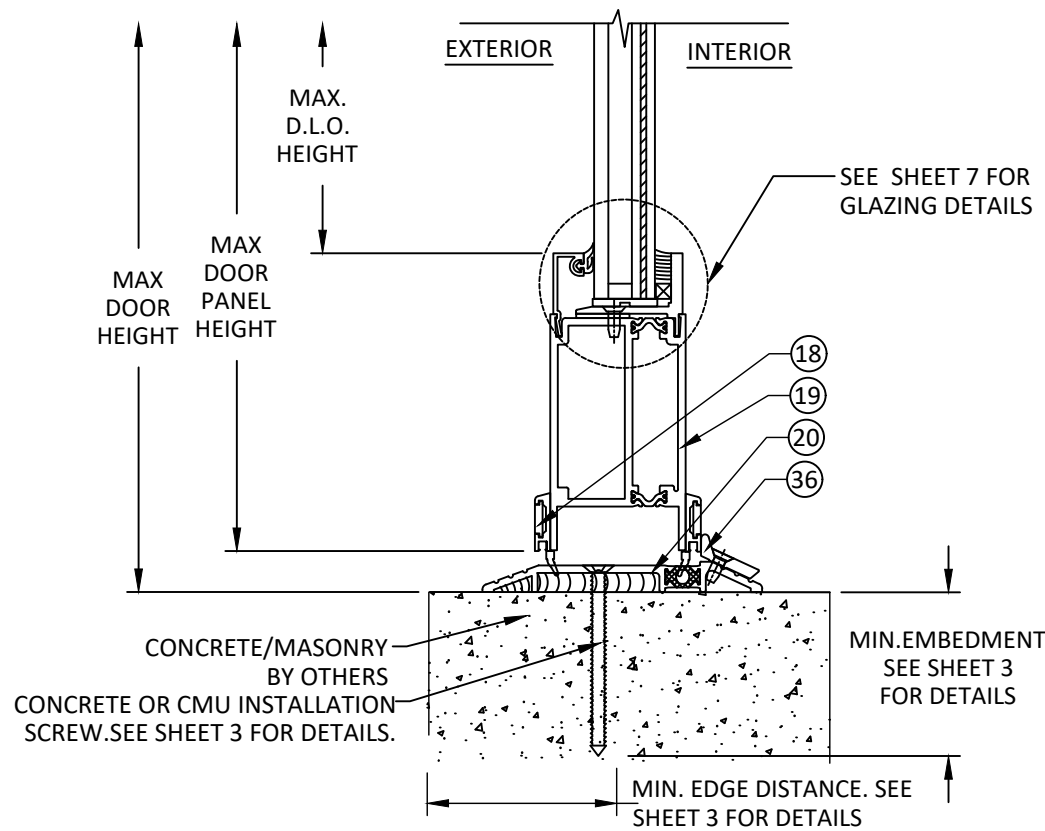
A
4 **VERTICAL SECTION**
AA425 WITH NON-THERMAL BROKEN FRAME
HEAD - CONCRETE/MASONRY



C
4 **VERTICAL SECTION**
AA425 DOOR
SILL - CONCRETE/MASONRY



B
4 **VERTICAL SECTION**
AA250 WITH THERMAL BROKEN FRAME
HEAD - CONCRETE/MASONRY



D
4 **VERTICAL SECTION**
AA250 DOOR
SILL - CONCRETE/MASONRY



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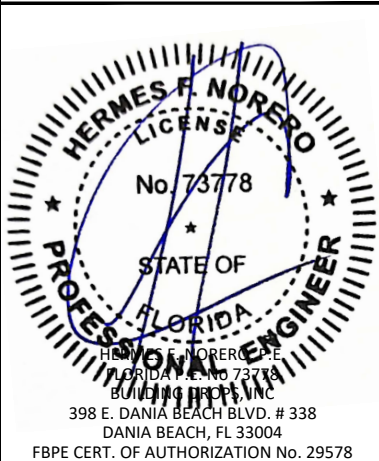
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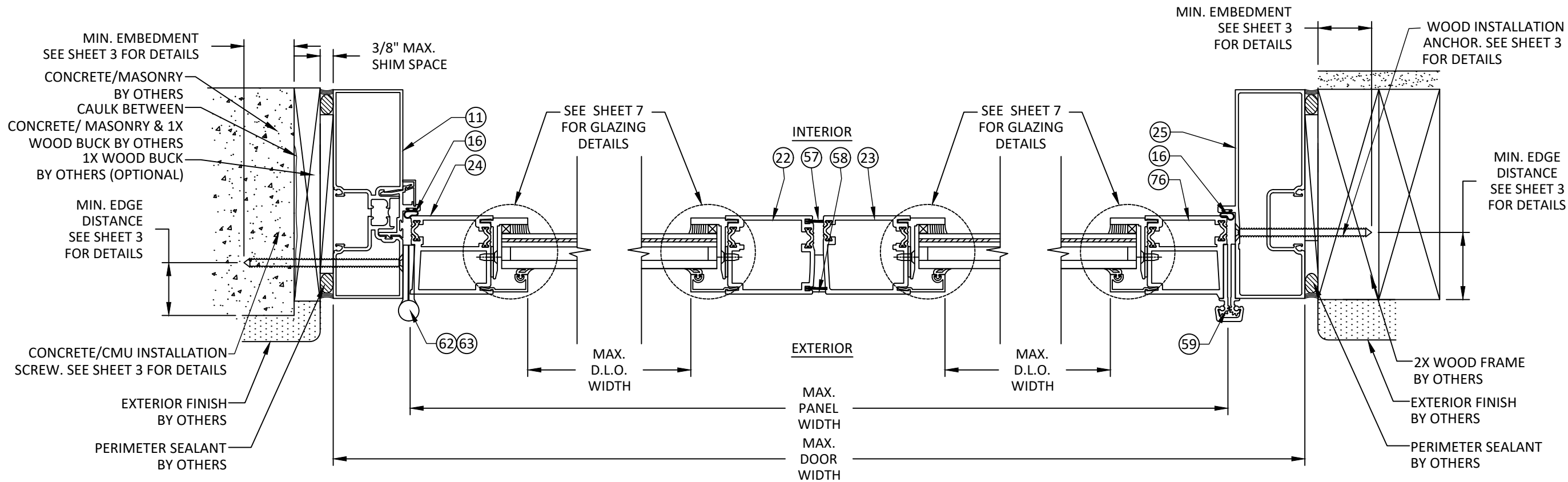
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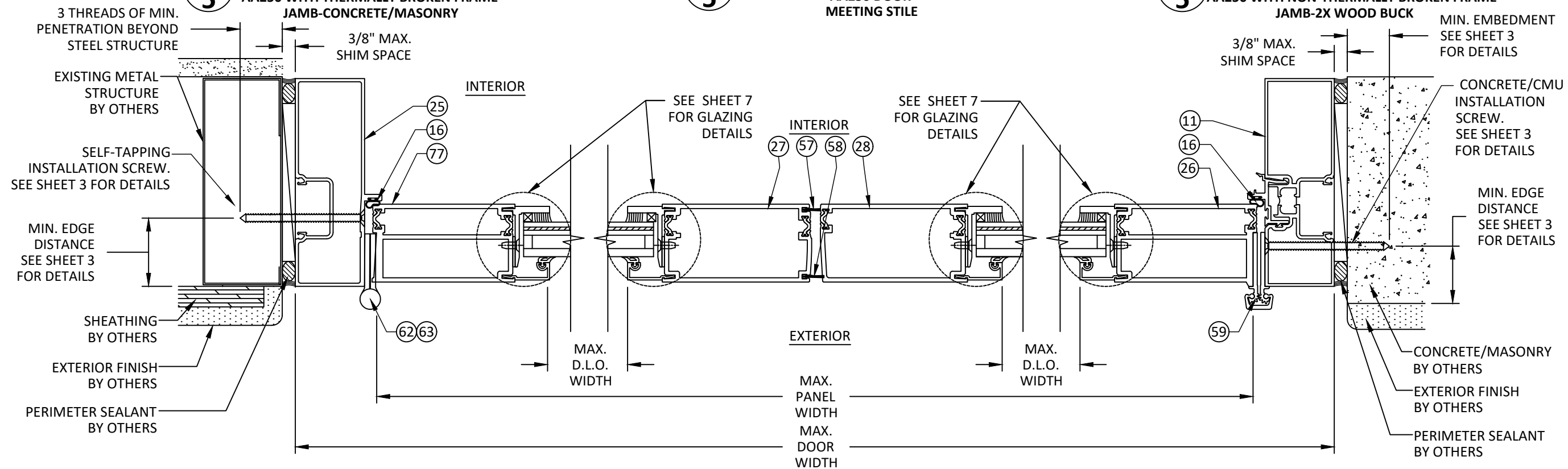
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A HORIZONTAL SECTION
5 AA250 WITH THERMALLY BROKEN FRAME
JAMB-CONCRETE/MASONRY

B HORIZONTAL SECTION
5 AA250 DOOR
MEETING STILE

C HORIZONTAL SECTION
5 AA250 WITH NON-THERMALLY BROKEN FRAME
JAMB-2X WOOD BUCK



D HORIZONTAL SECTION
5 AA425 WITH NON-THERMALLY BROKEN FRAME
JAMB-METAL STRUCTURE

E HORIZONTAL SECTION
5 AA425 DOOR
MEETING STILE

F HORIZONTAL SECTION
5 AA425 WITH THERMALLY BROKEN FRAME
JAMB- CONCRETE/MASONRY



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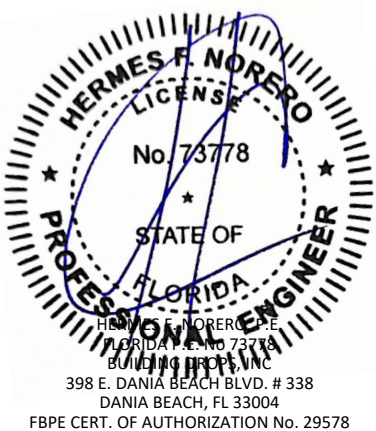
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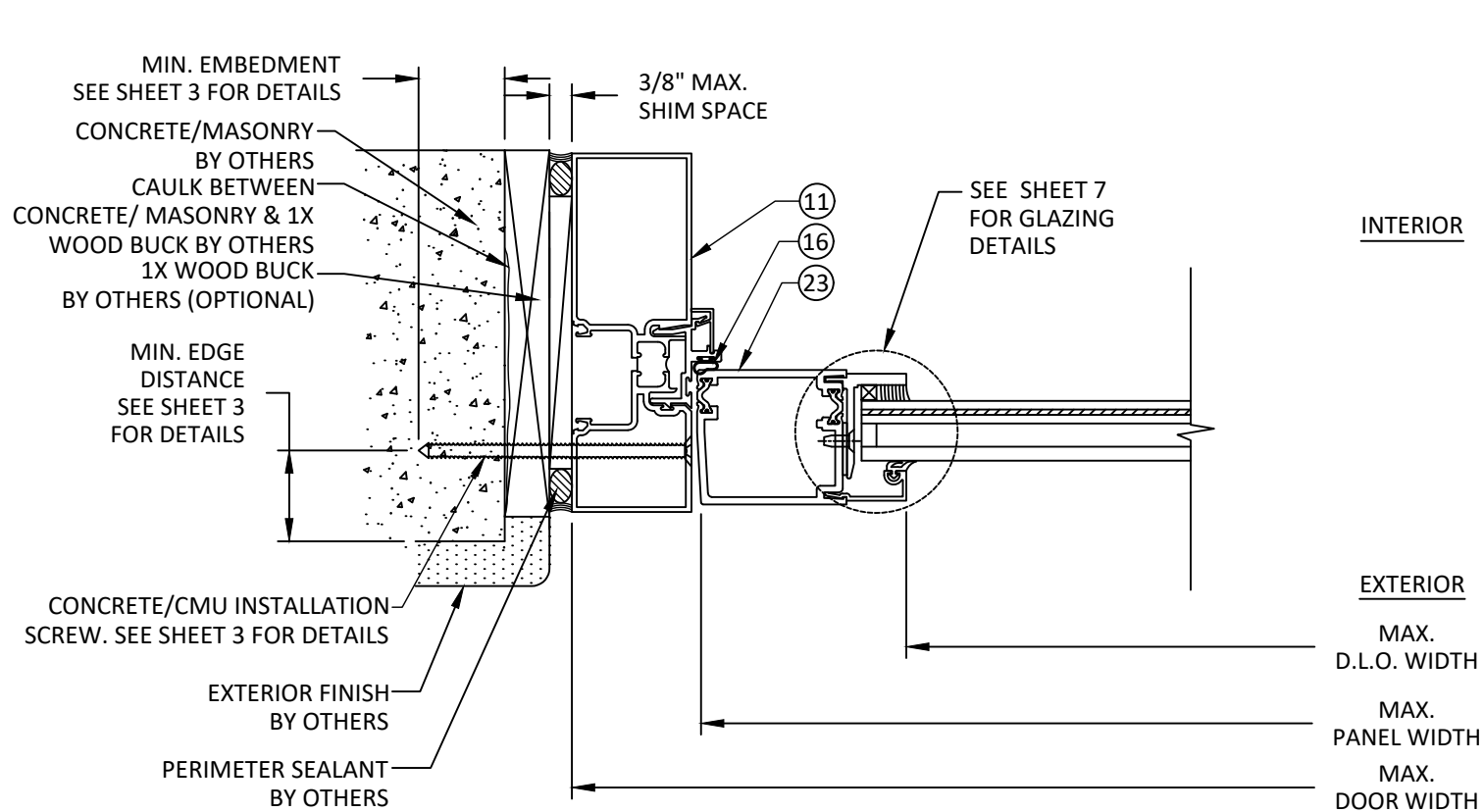


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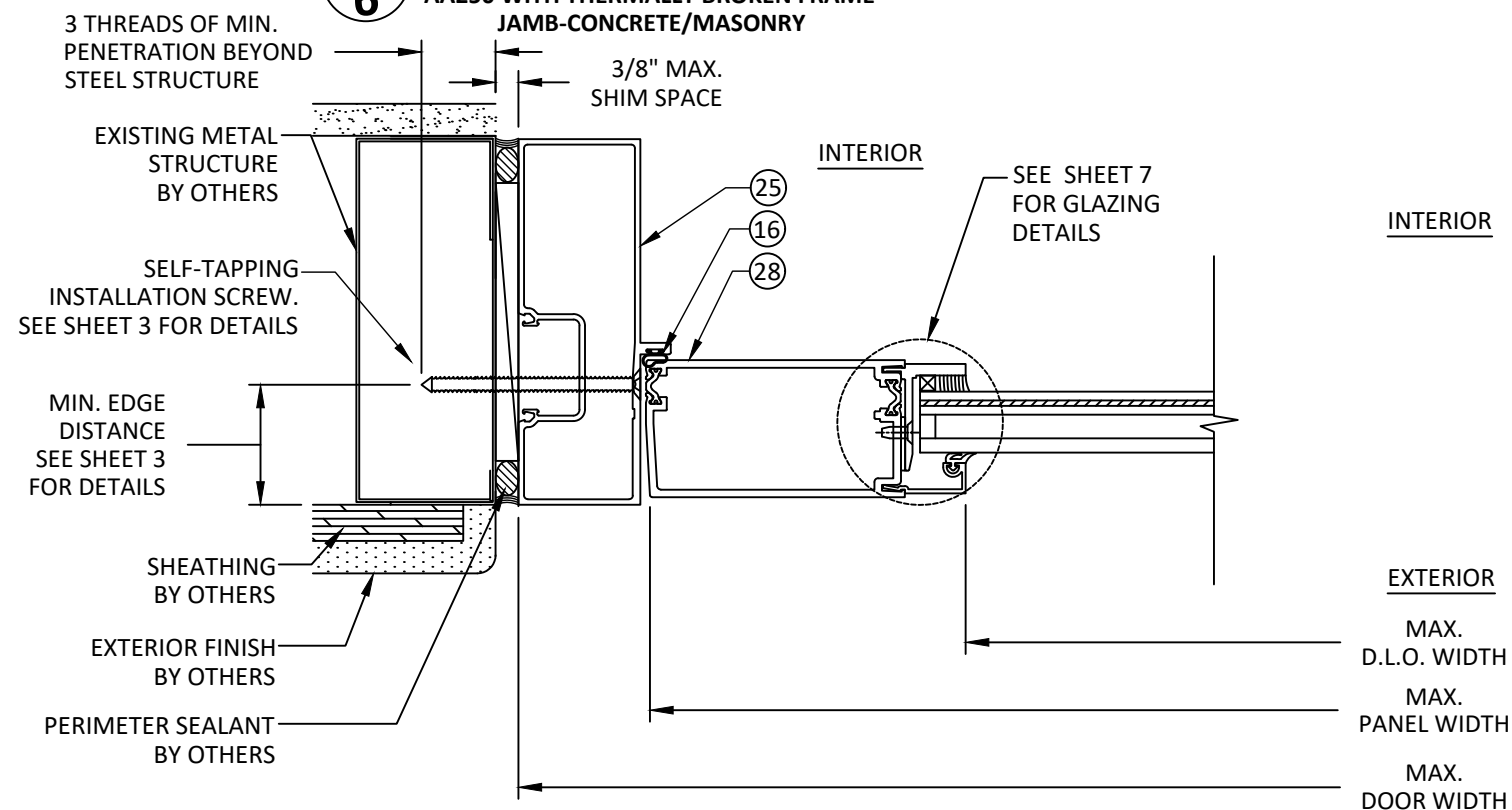
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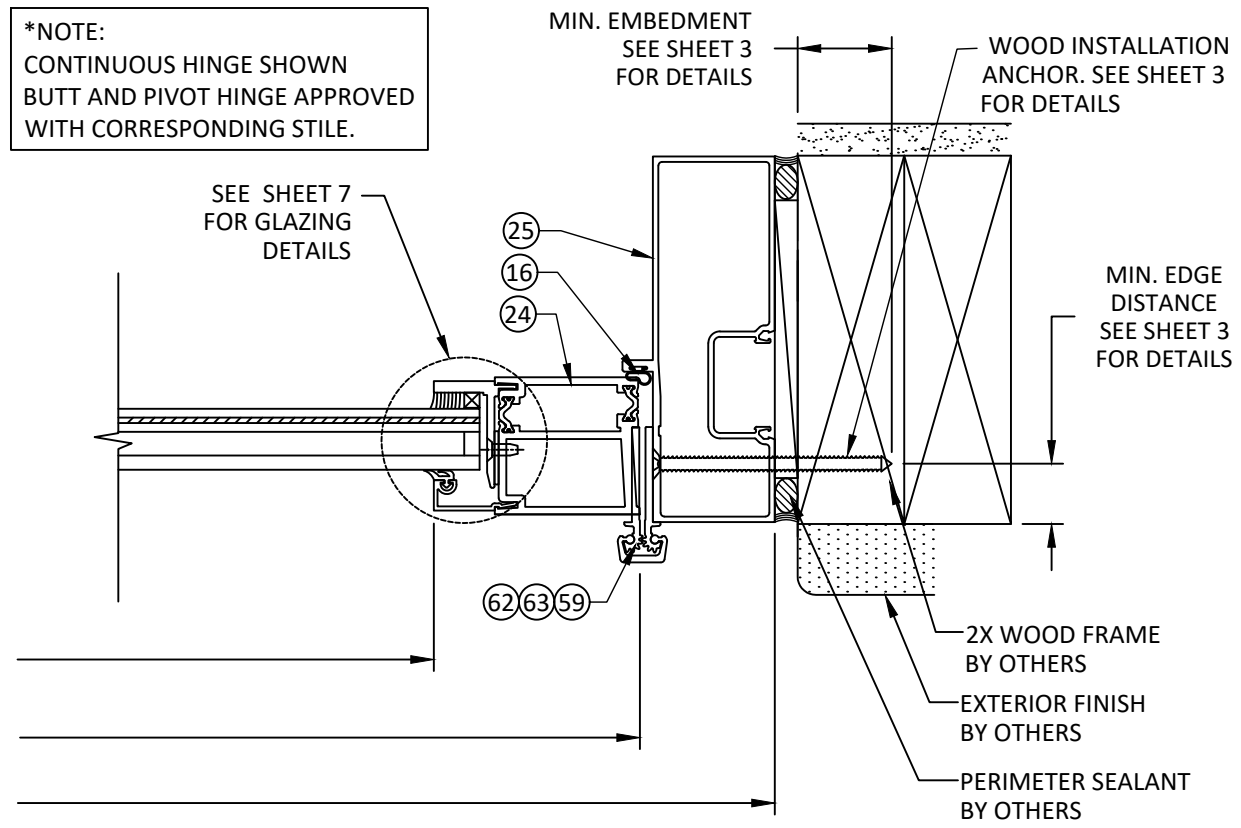
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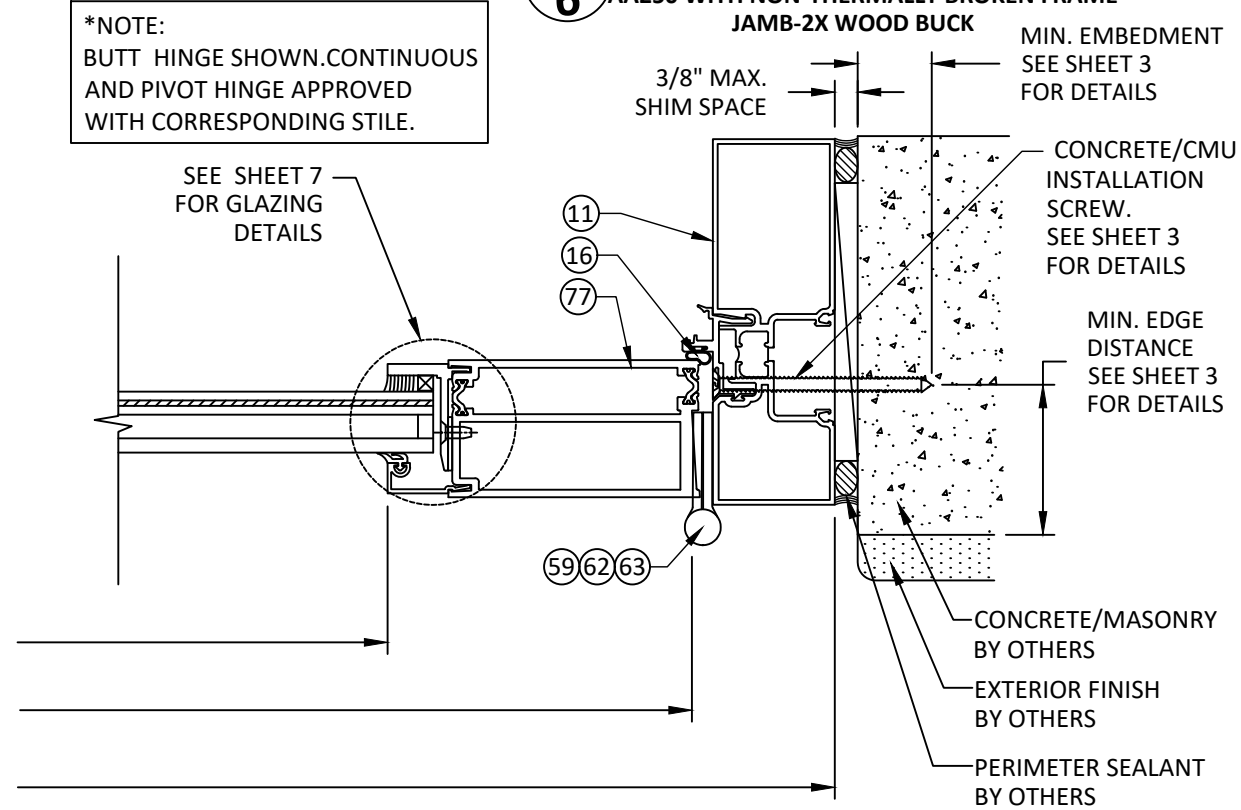
A HORIZONTAL SECTION
6 AA250 WITH THERMALLY BROKEN FRAME
JAMB-CONCRETE/MASONRY



C HORIZONTAL SECTION
6 AA425 WITH NON-THERMALLY BROKEN FRAME
JAMB-METAL STRUCTURE



B HORIZONTAL SECTION
6 AA250 WITH NON-THERMALLY BROKEN FRAME
JAMB-2X WOOD BUCK



D HORIZONTAL SECTION
6 AA425 WITH THERMALLY BROKEN FRAME
JAMB- CONCRETE/MASONRY

*NOTE:
 CONTINUOUS HINGE SHOWN
 BUTT AND PIVOT HINGE APPROVED
 WITH CORRESPONDING STILE.

*NOTE:
 BUTT HINGE SHOWN. CONTINUOUS
 AND PIVOT HINGE APPROVED
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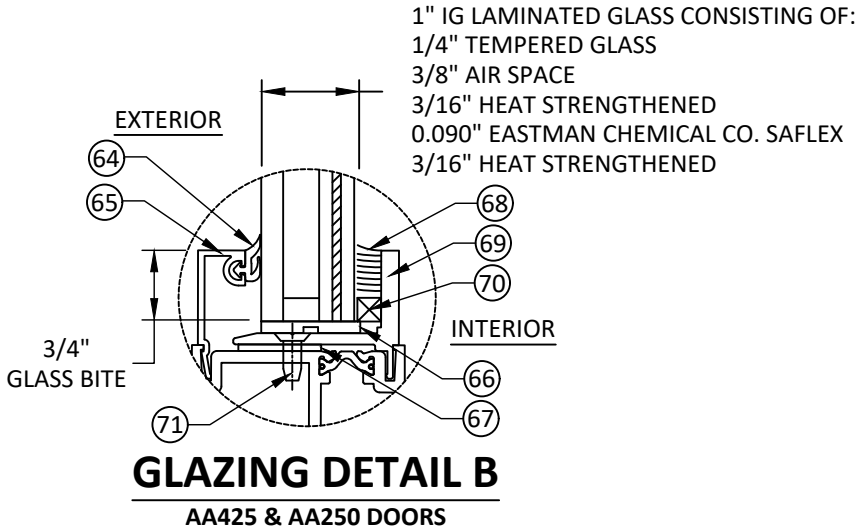
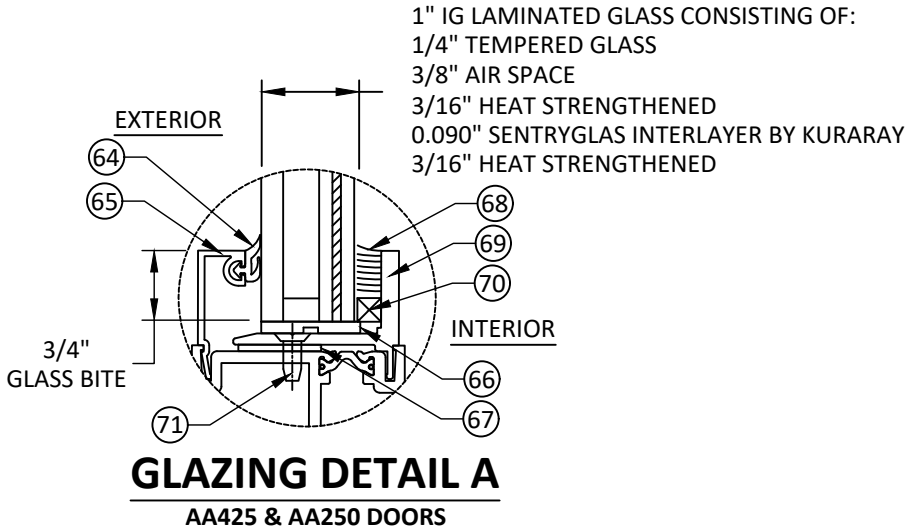
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BILL OF MATERIAL			
ID NO.	PART NO.	DESCRIPTION	MATERIAL
10	601CG315	END DAM	1010-1020 H.R. STEEL
11	601136	THERMAL DOOR JAMB	6063-T6 ALUMINUM
13	601137	THERMAL HEADER/T-BAR	6063-T6 ALUMINUM
15	601CG527	T-BAR/HEADER CLIP PKG	VARIES
16	452138	THERMAL DOOR STOP ASS'Y	
17	522106	2-1/2" STD WEB TOP DOOR RAIL	6063-T6 ALUMINUM
18	522795	DOOR SWEEP ASSY(BOTH SIDE)	VARIES
19	522108	STANDARD 3 7/8" BOTTOM DOOR RAIL	6063-T6 ALUMINUM
20	522125	THERMAL DOOR THRESHOLD	6063-T6 ALUMINUM
21	522103	"250" BUTT HINGE STILES	6063-T6 ALUMINUM
22	522110	250 INACTIVE STILE	6063-T6 ALUMINUM
23	522112	250 ACTIVE STILE	6063-T6 ALUMINUM
24	522131	250 PIVOT STILE	6063-T6 ALUMINUM
25	601021	601 DOOR JAMB	6063-T6 ALUMINUM
26	522204	425 ACTIVE STILE/ CONT. GEAR HINGE	6063-T6 ALUMINUM
27	522210	425 INACTIVE STILE	6063-T6 ALUMINUM
28	522212	425 ACTIVE STILE	6063-T6 ALUMINUM
33	601022	S/A T-BAT 2-1/4" TRIFAB 601	6063-T6 ALUMINUM
34	522206	425 TOP RAIL	6063-T6 ALUMINUM
35	522208	425 BOTTOM RAIL	6063-T6 ALUMINUM
36	049896	THRESHOLD JAM/CLIP	6063-T6 ALUMINUM
37	039346	THRESHOLD STOP/ASS	6063-T6 ALUMINUM
38	522203	425 BUTT HINGE STILE	6063-T6 ALUMINUM
39	522231	425 PIVOT STILE	6063-T6 ALUMINUM
40	601CG528	SHEAR BLOCK	6063-T6 ALUMINUM
41	601CG526	SHEAR CBOL	VARIES
42	601CG524	SHEAR CBOL	VARIES
43	451548	WATER DEFLECTOR	VARIES
51	128207	STEEL TO MULLION SCREW	300 S.S
52	128369	SILL TO FLASHING SCREW	300 S.S
53	028808	END DAM SCREW	300 S.S
54	028845	THRESHOLD ATTACHED SCREW	300 S.S
55	028201	THRESHOLD SCREW	300 S.S
56	028383	1 1/2" PLASTIC SCREW	PLASTIC
57	027278	WEATHERING	PILE/POLYPROPYLENE
58	027215	WEATHERING	PILE/POLYPROPYLENE
59	050820	CONTINUOUS HINGE	6063 T6 ALUMINUM
62	037264	BUTT HINGE	6063 T6 ALUMINUM
63	050322	TOP OFFSET PIVOT HINGE	6063 T6 ALUMINUM
	037233	INTERMEDIATE PIVOT HINGE	
	050326	BOTTOM OFFSET PIVOT HINGE	
64	027563	WEATHERING	EPDM
65	575047	EXTERIOR GLASS STOP FOR DOOR	----
66	027394	SETTING BLOCK FOR DOOR	----
67	127171	3M VHB 7/8" SG TAPE G23F	----
68	----	DOW 995 AND TREMCO PROGLAZE DDG STRUCTURAL SILICONE	----
69	575030	1" INTERIOR INFILL GLASS STOP	6063 T6 ALUMINUM
70	127095	FOAM SPACER	----
71	128910	FASTENER INTERIOR DOOR GLASS STOP	6063 T6 ALUMINUM
72	027074	STD. PUSH ON GASKET	DUROMETER EPDM
76	--	"250" ACTIVE STILE/CONT. GEAR HINGE	6063-T6 ALUMINUM
77		"425" ACTIVE STILE BUTT HINGE	6063-T6 ALUMINUM



GLAZING NOTES:

- GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, 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.
- D.L.O. MAY NOT EXCEED MAX DIMENSIONS SHOWN ON ELEVATIONS.



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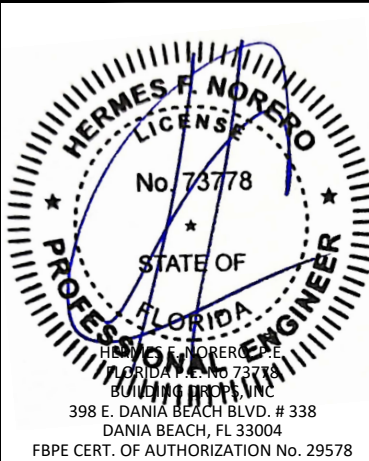
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DWG. BY:	CHK. BY:
YC	HFN
SCALE:	NTS
DWG. #:	KAW015
SHEET:	

7

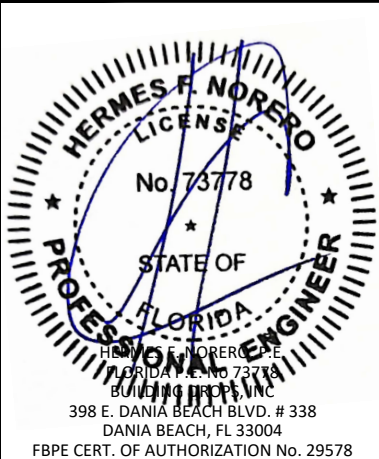
TITLE: AA250/AA425 THERMAL
ENTRANCE DOOR
(WZ3)/(IMPACT)
HORIZONTAL SECTIONS

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



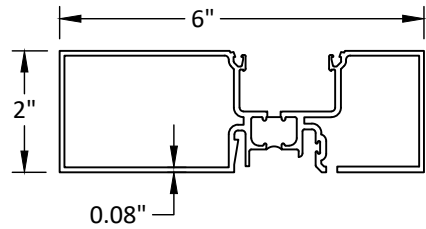
REMARKS	BY	DATE
2023 FBC UPDATE	DI	09/23

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

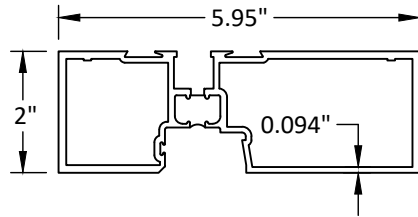


FL #:	FL34895
DATE:	09.21.20
DWG. BY:	YC
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SCALE:	NTS
DWG. #:	KAW015
SHEET:	8

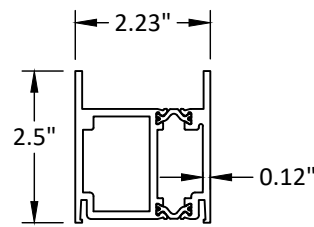
11 THERMAL DOOR JAMBS
6063-T6



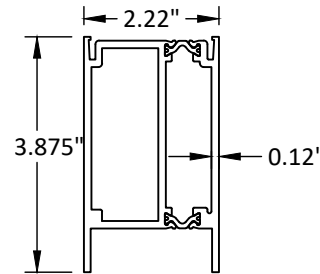
13 THERMAL HEADER
6063-T6



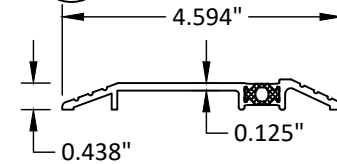
17 2 1/4" TOP DOOR RAIL
6063-T6



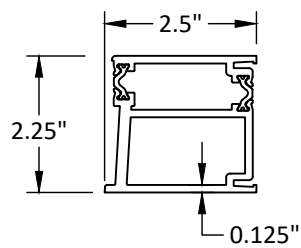
19 3 3/8" BOTTOM RAIL
6063-T6



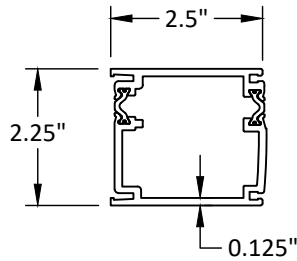
20 DOOR/TRANSOM JAMB
6063-T5



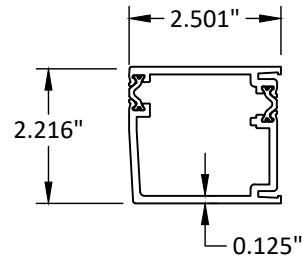
21 2 1/4" BUTT HINGE STILES
6063-T6



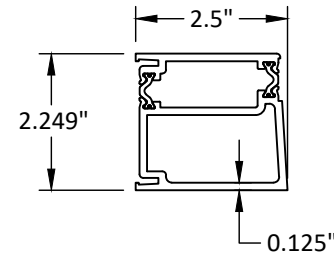
22 INACTIVE DOOR STILE
GRADE 50



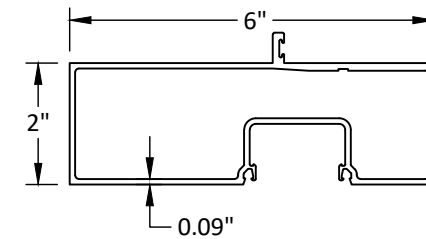
23 ACTIVE DOOR STILE
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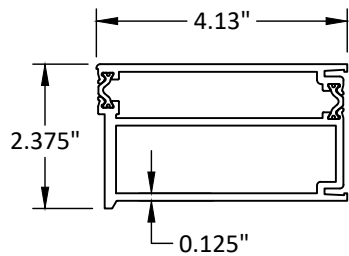
24 2 1/4" PIVOT HINGE STILES
6063-T6



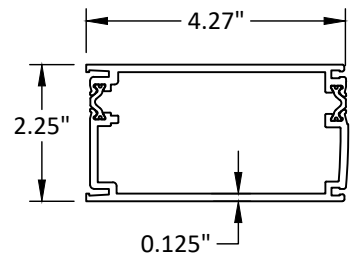
25 601 DOOR JAMB
6063-T6



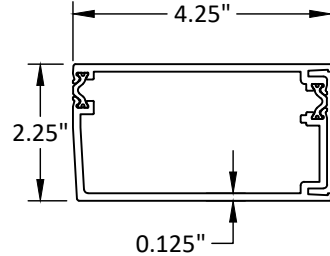
26 425 ACTIVE STILE
CONT. GEAR HINGE 6063-T6



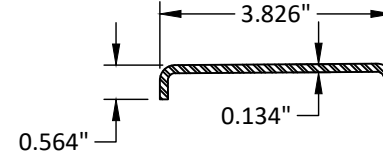
27 INACTIVE STILE
6063-T6



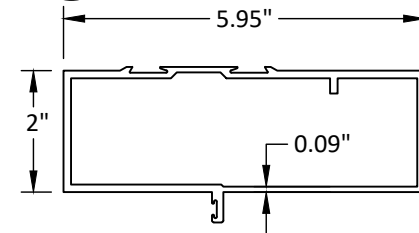
28 ACTIVE STILE
6063-T6



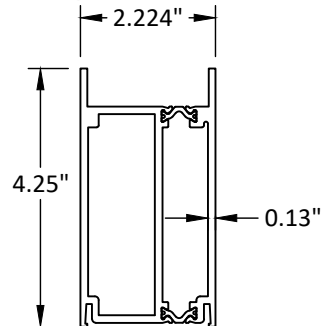
29 STEEL REINFORCEMENT
ASTM A1011 GRADE 50



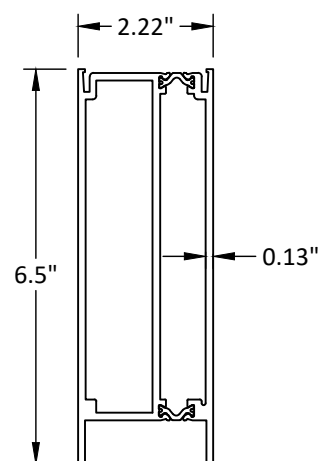
33 2-1/4" TRIFAB 601
6063-T6



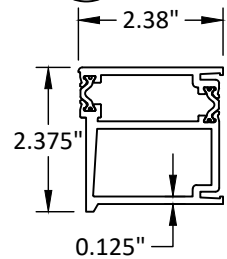
34 425 TOP RAIL
ASTM A1011 GRADE 50



35 425 BOTTOM RAIL
6063-T6



76 250 ACTIVE STILE CONT. HINGE
6063-T6



77 425 ACTIVE STILE BUTT HINGE
6063-T6

