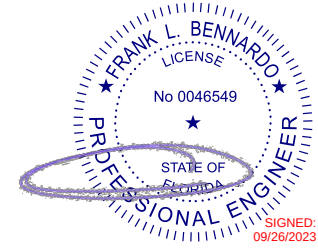


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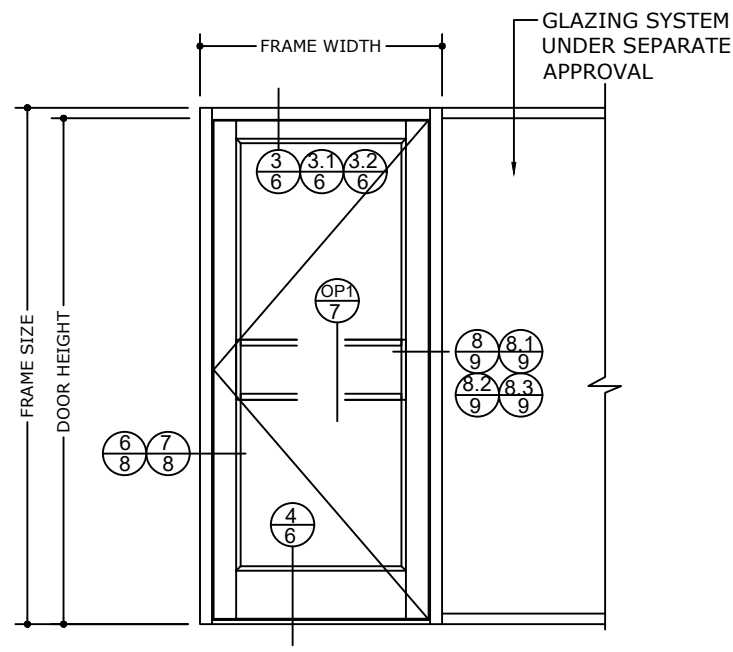
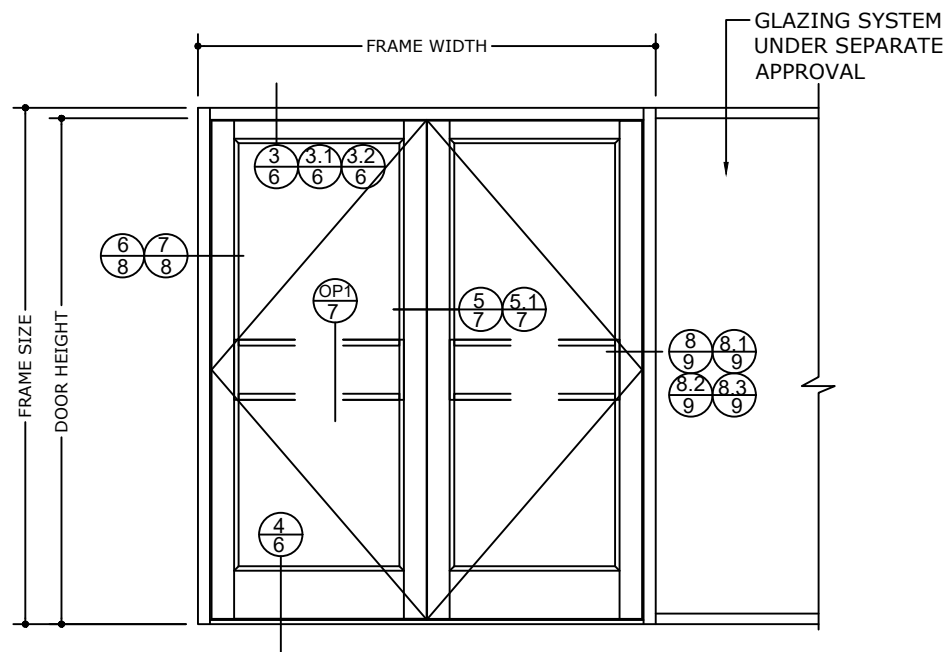
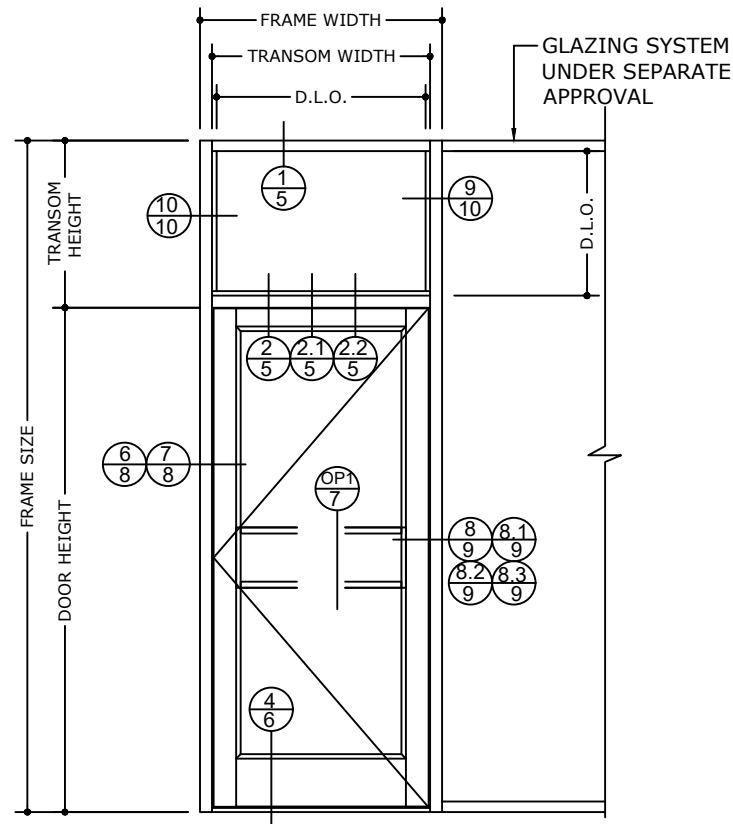
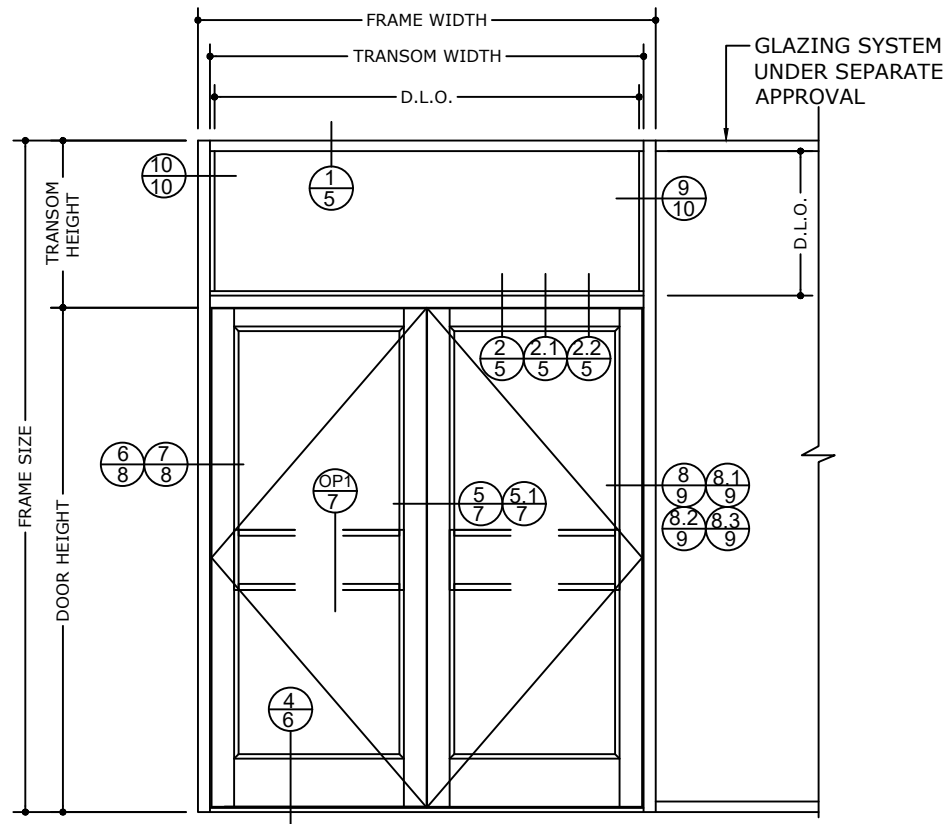
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x	x	x	x

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SCALE: NTS UNLESS NOTE

0222



STEP ①: USE THE GLASS MAKE-UP VS DOOR SIZE TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.

STEP (2): SEE THE HARDWARE SCHEDULE TO DETERMINE THE MAX DESIGN PRESSURE.

STEP ③: SEE SHEET 11 THRU 14 FOR DOOR SIZE/FRAME TYPE VS DESIGN PRESSURE RATING

STEP (4): THE MINIMUM VALUE BETWEEN STEP (1), (2) AND STEP (3) WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE ENTRANCE DOOR SYSTEM.

SEE SHEET 11 THRU 14 FOR DOOR SIZE/FRAME
TYPE VS DESIGN PRESSURE RATING

DOOR WIDTH (IN.)		DOOR HEIGHT (IN.)	TRANSOM WIDTH (IN.)		TRANSOM FRAME HEIGHT (IN.)	MAX. PRESSURE (P.S.F.)
SINGLE	DOUBLE		SINGLE	DOUBLE		
42"	84"	96"	42"	84"	24"	+70 / -70

Diagram illustrating the components and dimensions of a window frame assembly:

- 46: Top frame component.
- 47: Top frame component.
- EXTERIOR: Label for the outer side of the frame.
- 1": Dimension indicating the height of the top frame section.
- 23: Bottom frame component.
- 50: Bottom frame component.
- 49: Glass pane.
- 22: Glass pane.
- 5/8" MIN.: Dimension indicating the minimum thickness of the glass pane.
- GLASS: Label for the glass pane.
- 24: Bottom frame component.
- BITE: Label for the bottom frame component.

Diagram illustrating the exterior side of a window assembly. The diagram shows a cross-section of the window frame and glass. Key dimensions and components are labeled:

- 2"**: Vertical dimension of the exterior frame section.
- 7/16" MIN. GLASS BITE**: Dimension indicating the minimum glass bite.
- ALUMINUM SPACER, OR ANY APPROVED SPACER**: Label pointing to the spacer between the glass panes.
- 36**: Label pointing to the exterior frame component.
- 39**: Label pointing to the exterior frame component.

Diagram illustrating the exterior view of the door assembly. Key components labeled include:

- 46: Door
- 47: Door frame
- 49: Door handle
- 22: Door frame
- 23: Door frame
- 50: Door frame
- 24: Door frame
- 5/8" MIN. GLASS BITE: Dimension indicating the minimum glass bite.

Diagram illustrating the components and dimensions of a window assembly:

- 22: EXTERIOR
- 23: GLASS
- 24: 5/8" MIN.
- 25: RITE
- 26: 1"
- 27: 5/8" MIN.
- 28: RITE
- 29: 5/8" MIN.
- 30: RITE
- 31: 5/8" MIN.
- 32: RITE
- 33: 5/8" MIN.
- 34: RITE
- 35: 5/8" MIN.
- 36: RITE
- 37: 5/8" MIN.
- 38: RITE
- 39: 5/8" MIN.
- 40: RITE
- 41: 5/8" MIN.
- 42: RITE
- 43: 5/8" MIN.
- 44: RITE
- 45: 5/8" MIN.
- 46: RITE
- 47: 5/8" MIN.
- 48: RITE
- 49: 5/8" MIN.
- 50: RITE

GLASS TYPE 
SECURITY GLAZING DETAIL
 PER ASTM E2395
 1" ARMORGARDE™ / ARMORGARDE™ PLUS GLAZING

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SCALE: NTS UNLESS NOTE03²²

***NOTE:**

- | | |
|----|---|
| 8 | RAIL (D-8) CORRESPONDS WITH CORNER BLOCK 3 (CB-8) |
| 9 | RAIL (D-38) CORRESPONDS WITH CORNER BLOCK 5 (CB-38) |
| 10 | RAIL (D-2) CORRESPONDS WITH CORNER BLOCK 2 (CB-2) |
| 11 | RAIL (D-21) CORRESPONDS WITH CORNER BLOCK 4 (CB-21) |
| 12 | RAIL (D-61) CORRESPONDS WITH CORNER BLOCK 6 (CB-61) |
| 13 | RAIL (D-71) CORRESPONDS WITH CORNER BLOCK 7 (CB-71) |

Technical drawing of a window bottom rail detail. The drawing shows a cross-section of the rail assembly mounted on an existing substrate. Key components and dimensions include:

- Dimensions:**
 - 1 3/4" (width of the top rail section)
 - 1" (height of the top rail section)
 - 5/8" MIN. GLASS BITE (depth of the glass bite)
 - 12" O.C. (on-center spacing of the rail sections)
 - 1/2" (height of the bottom rail section)
 - 4" (width of the bottom rail section)
- Labels:**
 - DOOR OPENING
 - DOOR HEIGHT
 - EXISTING SUBSTRATE BY OTHERS
 - TYPICAL ANCHORS PER ANCHOR SCHEDULE 5 SHEET 11 OR 12 FOR SUBSTRATE AND ANCHOR REQUIREMENTS
- Callouts:**
 - 46, 47, 49, 22, 23, 24, 2, 4, 6, 7, 10, 11, 12, 13, 20, 21, 31, 63, 41, 67, 68, 66
 - * SEE NOTES

4 BOTTOM RAIL DETAIL
SCALE: 6" = 1'-0"

HEADER W/O TRANSOM (CONCEALED CLOSER
W/ BUTT HINGE/OFFSET PIVOT)

HEADER W/O TRANSOM (CONCEALED
CLOSER W/ GEAR HINGE)

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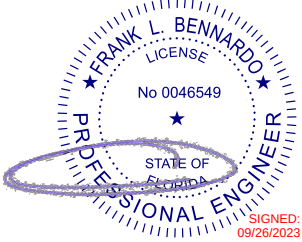
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SCALE: NTS UNLESS NOTED06²²

9/26/2023 1:20 PM SAM

DOOR JAMB DETAILS

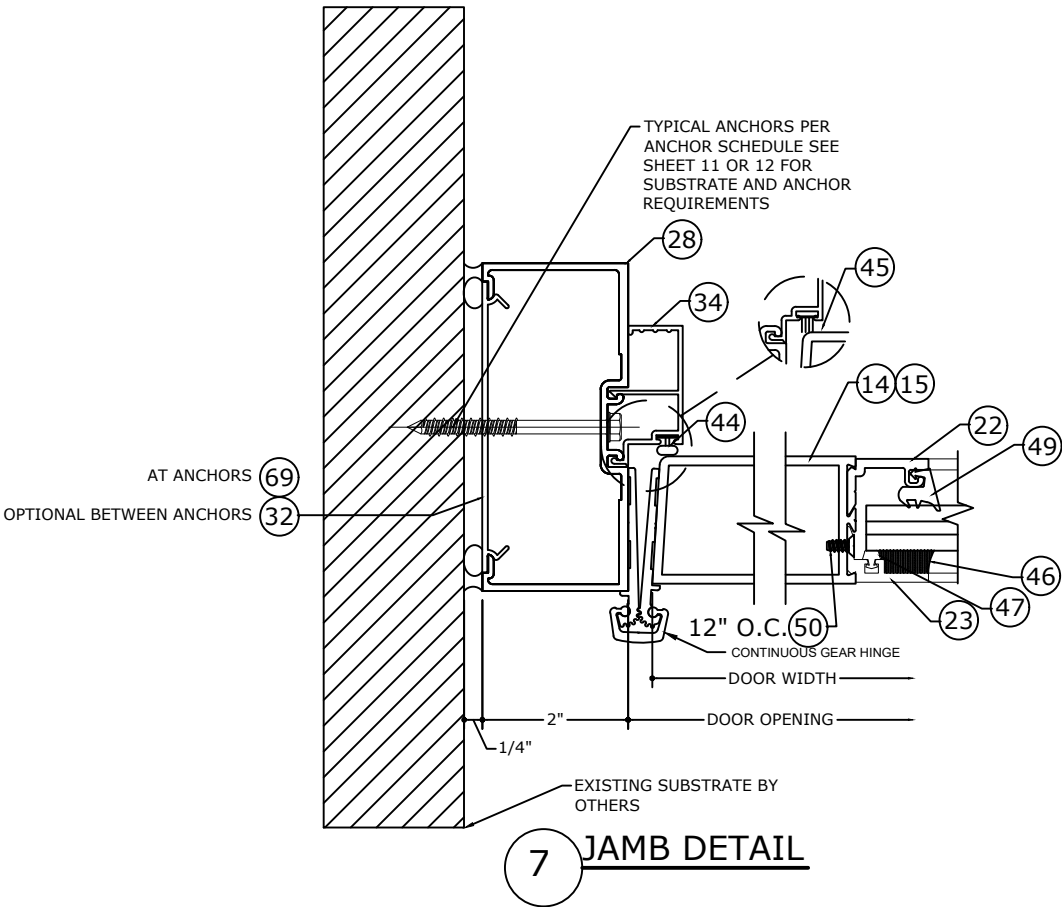
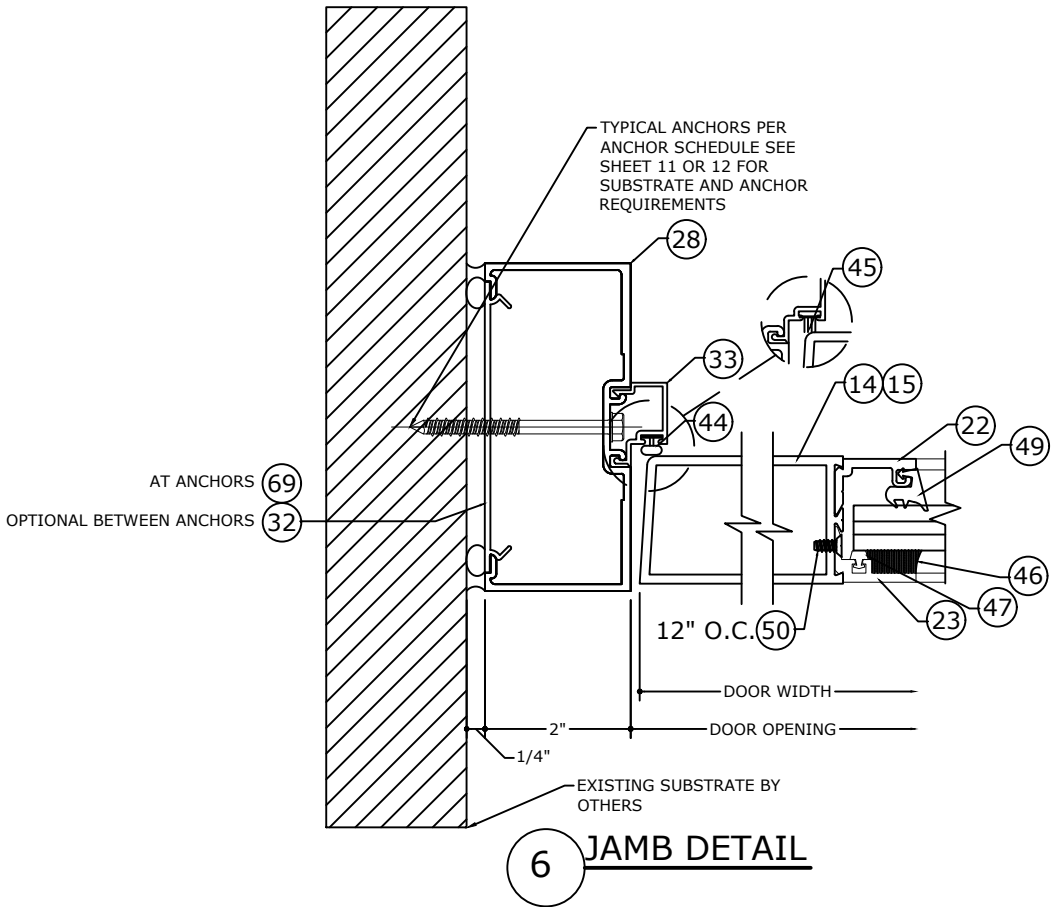
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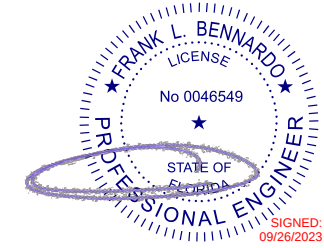
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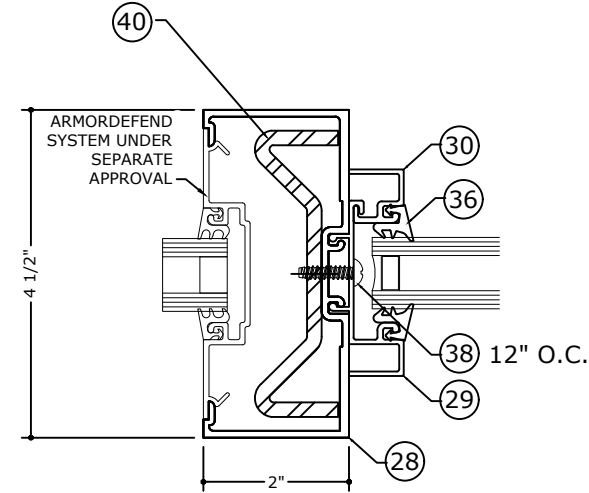
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SIGNED:
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9.1 TRANSOM / SIDELITE DETAIL



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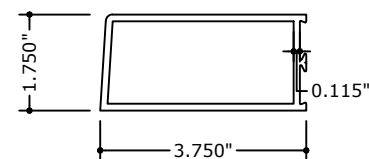


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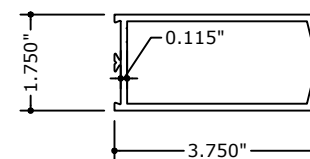
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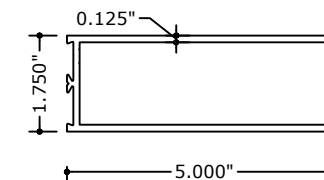
(14) D-6 DOOR MEDIUM STILE



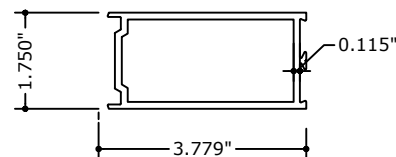
(15) D-13 DOOR WIDE STILE



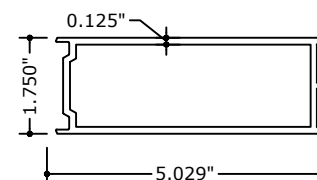
⑩ D-24 DOOR INACTIVE
MEETING MEDIUM STILE



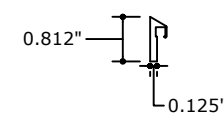
⑪ D-25 DOOR INACTIVE
MEETING WIDE STILE



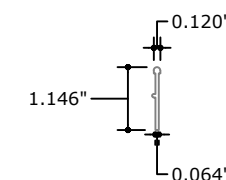
⑮ D-69 DOOR ACTIVE
MEETING MEDIUM STILE



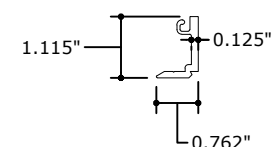
①9 D-70 DOOR ACTIVE
MEETING WIDE STILE



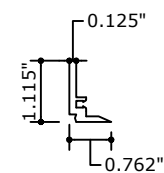
②0 D-118 DOOR BOTTOM RAIL
SWEEP ASSEMBLY



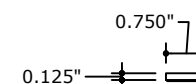
(21) D-120 DOOR SWEEP



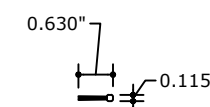
(22) D-188 GLASS STOP



(23) D-152 GLASS STOP



24 FG5000-PP-1
DOOR SETTING BLOCK /
SIDE BLOCK



25 WP-085
DOOR SETTING BLOCK

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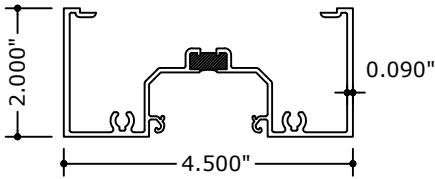
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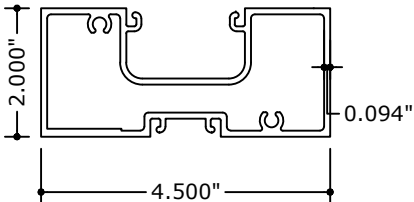
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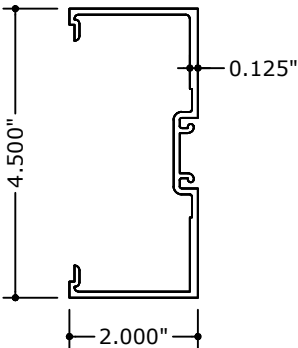
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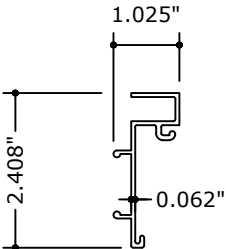
26 FG-3495 TRANSOM HEAD



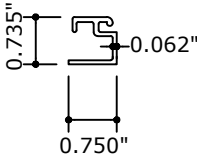
27 FG-3163 DOOR HEAD



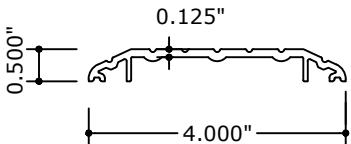
28 FG-3156 DOOR JAMB



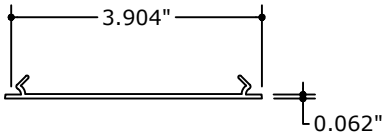
29 FG-3157 SASH



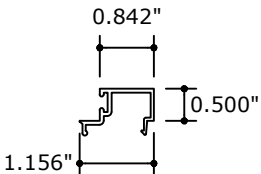
30 FG-3158 SASH STOP



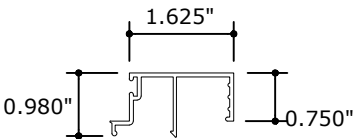
31 TH-43 THRESHOLD
HEADER



32 FG-2188 FLAT FILLER



33 FG-2145 SNAP-IN DOOR
STOP



34 FG-2170 SNAP-IN DOOR
STOP

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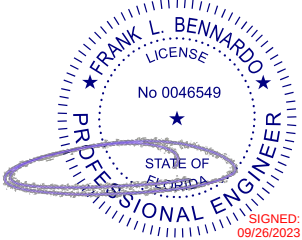
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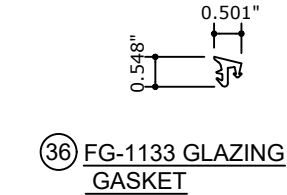
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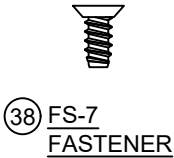
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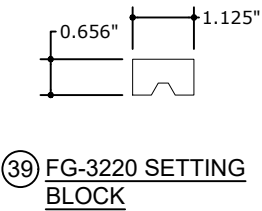
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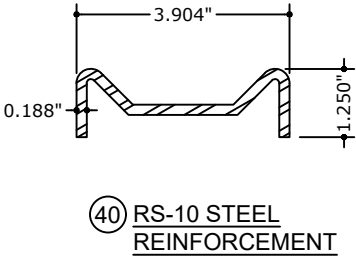
36 FG-1133 GLAZING GASKET



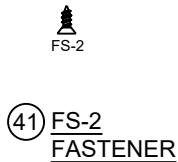
38 FS-7 FASTENER



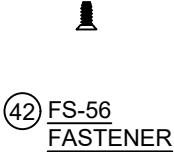
39 FG-3220 SETTING BLOCK



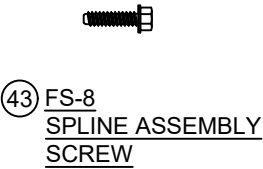
40 RS-10 STEEL REINFORCEMENT



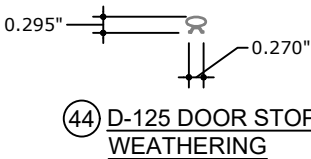
41 FS-2 FASTENER



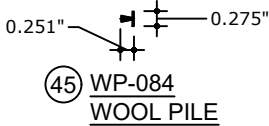
42 FS-56 FASTENER



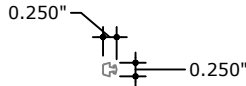
43 FS-8 SPLINE ASSEMBLY SCREW



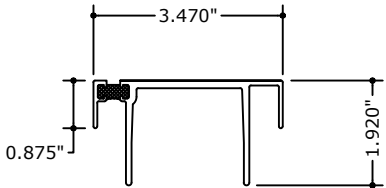
44 D-125 DOOR STOP WEATHERING



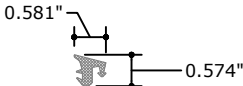
45 WP-084 WOOL PILE



47 FG-5188 SPACER GASKET



48 FG3000-FP-52 HEAD ANCHOR



49 FG-5125 HEAVY GASKET



50 FS-114 FASTENER

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ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL
1	AS-6	ADJUSTABLE ASTRAGAL	0.331 x 1.562 x 0.62	6063-T6 ALUMINUM
2	CB-2	DOOR CORNER BLOCK	2.130 x 1.440 x 0.250 x 2.0420	6063-T6 ALUMINUM
3	CB-8	DOOR CORNER BLOCK	2.130 x 1.440 x 0.250 x 1.7300	6063-T6 ALUMINUM
4	CB-21	DOOR CORNER BLOCK	2.130 x 1.440 x 0.250 x 4.4680	6063-T6 ALUMINUM
5	CB-38	DOOR CORNER BLOCK	2.130 x 1.440 x 0.250 x 1.2310	6063-T6 ALUMINUM
6	CB-61	DOOR CORNER BLOCK	2.130 x 1.440 x 0.250 x 8.0310	6063-T6 ALUMINUM
7	CB-71	DOOR CORNER BLOCK	2.130 x 1.440 x 0.250 x 6.0310	6063-T6 ALUMINUM
8	D-8	DOOR TOP RAIL	1.710 x 3.00 x 0.125	6063-T5 ALUMINUM
9	D-38	DOOR TOP RAIL	1.710 x 3.00 x 0.125	6063-T5 ALUMINUM
10	D-2	DOOR TOP / BOTTOM / MID-RAIL	1.710 x 4.00 x 0.125	6063-T5 ALUMINUM
11	D-21	6 1/2" DOOR TOP / BOTTOM / MID-RAIL	1.710 x 6.50 x 0.125	6063-T5 ALUMINUM
12	D-61	10" BOTTOM / MID-RAIL	1.710 x 10.000 x 0.125	6063-T6 ALUMINUM
13	D-71	8" BOTTOM / MID-RAIL	8.000 x 1.710 x 0.125	6063-T6 ALUMINUM
14	D-6	DOOR STILE	3.750 x 1.750 x 0.125	6063-T5 ALUMINUM
15	D-13	DOOR STILE	5.000 x 1.750 x 0.125	6063-T5 ALUMINUM
16	D-24	DOOR INACTIVE MEETING STILE	3.750 x 1.750 x 0.125	6063-T5 ALUMINUM
17	D-25	DOOR INACTIVE MEETING STILE	5.000 x 1.750 x 0.125	6063-T5 ALUMINUM
18	D-69	DOOR ACTIVE MEETING STILE	3.614 x 1.750 x 0.125	6063-T5 ALUMINUM
19	D-70	DOOR ACTIVE MEETING STILE	1.710 x 4.864 x 0.125	6063-T5 ALUMINUM
20	D-118	DOOR SWEEP RETAINER	0.302 x 0.812 x 0.125	6063-T5 ALUMINUM
21	D-120	DOOR SWEEP	0.120 x 1.146	SILICONE
22	D-188	GLASS STOP	0.762 x 1.115 x 0.125	6063-T6 ALUMINUM
23	D-152	GLASS STOP	0.762 x 1.115 x 0.125	6063-T6 ALUMINUM
24	FG5000-PP-1	SETTING BLOCK / SIDE BLOCK	0.750 x 0.125	EPDM W/ PSA TAPE
25	WP-085	ASTRAGAL WEATHERING	0.115 x (0.330 to 0.630)	WOOL PILE
26	FG-3495	DOOR HEAD	2.000 x 4.500 x 0.070	6063-T5 ALUMINUM
27	FG-3163	DOOR HEAD	4.500 x 2.000 x 0.094	6063-T5 ALUMINUM
28	FG-3156	DOOR JAMB	4.500 x 2.000 x 0.094	6063-T5 ALUMINUM
29	FG-3157	SASH	0.750 x 2.408 x 0.062	6063-T5 ALUMINUM
30	FG-3158	SASH STOP	0.735 x 0.750 x 0.62	6063-T5 ALUMINUM
31	TH-43	THRESHOLD	4.000 x 0.50 x 0.125	6063-T5 ALUMINUM
32	FG-2188	FLAT FILLER	0.365 x 4.000 x 0.070	PVC
33	FG-2145	SNAP-IN DOOR STOP	0.500 x 1.156 x 0.062	6063-T5 ALUMINUM
34	FG-2170	SNAP-IN DOOR STOP	1.000 x 1.925 x 0.050	6063-T5 ALUMINUM
35	NOT USED	NOT USED	NOT USED	NOT USED
36	FG-1133	GLAZING GASKET	0.501 x 0.548	EPDM
37	NOT USED	NOT USED	NOT USED	NOT USED
38	FS-6	SASH FASTENER	#10 x 3/4" PPH B PT	STEEL
39	FG-3220	SETTING BLOCK	0.656 x 1.125 x 4.00"	EPDM
40	RS-10	STEEL REINFORCEMENT	1.125 x 3.904 x 0.188	EPDM
41	FS-2	ATTACH D-118 SWEEP TO DOOR BOTTOM	#8 x 1/2" PFH	STEEL

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BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

803 AIRPORT RD.
TERRELL, TX 75160
(972) 551-6100

ARMORDEFEND™ ENTRANCE IN ARMORDEFEND™ FRAMING
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#36793.1)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	SQ	RS	09/07/23
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"

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BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL
42	FS-235	ATTACH D-134-3 PANIC STOP	1/4" – 20 X 5/8" PFH	STEEL
43	FS-8	SPLINE ASSEMBLY SCREW	#14 x 1 HHSTS	STEEL
44	D-125	DOOR STOP WEATHERING	0.365 x 0.185	SANTOPRENE
45	WP-084	DOOR STOP WEATHERING	0.270 x 0.390	WOOL PILE
46	DOWSIL 995	STRUCTURAL SEALANT	N/A	SILICONE
47	FG-5188	SPACER GASKET	0.250 x 0.250	SILICONE
48	FG3000-FP-52	HEAD ANCHOR	1.920 x 3.470 x 6.000	6063-T6 ALUMINUM
49	FG-5125	HEAVY GASKET	0.581 x 0.574	EPDM
50	FS-114	FASTENER FOR DOOR GLASS STOP	#8 x 3/8" PPH A PT	STEEL
51	GP-150	SIDE BLOCK	0.5 x 1.625 x 4.00"	EPDM
52	FS-201	3/16" x 2" FASTENER	#10 X 2" PFHA	STEEL
53	DS-104	DOOR STOP FOR CONCEALED CLOSER	1.188 x 1.625 x 0.094	6063-T6 ALUMINUM
54	DS-108	DOOR STOP FOR CONCEALED CLOSER	1.625 x 0.750 x 0.062	6063-T6 ALUMINUM
55	SC-1	SPRING CLIP	0.266 x 0.638 x 0.919	EPDM
56	FS-15	3/16" x1/8" DRIVE RIVET	3/16" x1/8" DRIVE RIVET	STEEL
57	FG-3160	DOOR HEADER	2.000 x 4.500 x 0.125	6063-T5 ALUMINUM
58	FS-121	1/4"-20 x 1/2" HHMS	1/4"-20 X 1" HEX CAP SCREW	STEEL
59	FS-58	#10 x 1" PFG B PT.	#10 X 1" PFH	STEEL
60	AC-113-01	CONCEALED CLOSER CLIP	1.125 x 1.750 x 3.6880	EPDM
61	HP-17	SETTING BLOCK	1.316 x 0.250 x 4.000	EPDM
62	NOT USED	NOT USED	NOT USED	NOT USED
63	FS-7	#10 x 3/4" PFH B PT.	#10 x 3/4" PFH B PT.	STEEL
64	NOT USED	NOT USED	NOT USED	NOT USED
65	D-62	MID-RAIL ADAPTOR	1.125 x 1.750 x 3.6880	6063-T6 ALUMINUM
66	TH-FP-1	THRESHOLD CLIP	1.552 x 1.429 x 0.062	6063-T6 ALUMINUM
67	FS-256	THRESHOLD SCREW	#8 X 1-1/4 PRH A PT	STEEL
68	FS-42	THRESHOLD SCREW	#12 X 1/2" PFH UC B POINT	STEEL
69	FG-2122	FLAT FILLER	0.357" x 4.000 x 0.062"	6063-T6 ALUMINUM



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HARDWARE SCHEDULE ARMORDEFEND MEDIUM AND WIDE STILE DOORS				
HARDWARE TYPE	HARDWARE MODEL AND DESCRIPTION	MANUFACTURER	MAX. DESIGN PRESSURE	NOTES
BUTT HINGES 4" X 4 1/2"	STAINLESS STEEL BUTT HINGES	REGENT	+70 / -70 PSF	
CONT. GEAR HINGE	780-224HD CONTINUOUS GEAR HINGES	HAGAR - ROTON	+70 / -70 PSF	
CONCEALED PANIC	2086 CONCEALED PANIC DEVICE	JACKSON	+70 / -70 PSF	
RIM PANIC	99 RIM PANIC W/ 154 MULLION STABILIZERS	VON DUPRIN	+50 / -50 PSF	USE VON DUPRIN 299F STRIKE ONLY ALLOWED TO USE FOR WIDE STILES, (15) (17) (19)
REMOVABLE MULLION	9954 REMOVABLE MULLION	VON DUPRIN	+50 / -50 PSF	TO BE USED WITH VON DUPRIN 99 RIM PANIC DEVICE
CONCEALED CLOSER	STANDARD OVERHEAD CONCEALED CLOSER	VARIES	N/A	MODEL VARIES BY MANUFACTURER
SURFACE CLOSER	SURFACE MOUNTED CLOSER	VARIES	N/A	MODEL VARIES BY MANUFACTURER
PUSH/ PULL HANDLES	VARIES	VARIES	N/A	MODEL VARIES BY MANUFACTURER



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22 OF 22