PREMIER STEEL DOORS AND FRAMES

"D" SERIES COMMERCIAL STEEL DOOR w/ TRANSOM

OUTSWING

"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. Outswing configurations using sill item #40 and #42 do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
6. All steel shall be protected as specified in Section 2222.6 of the FBC.

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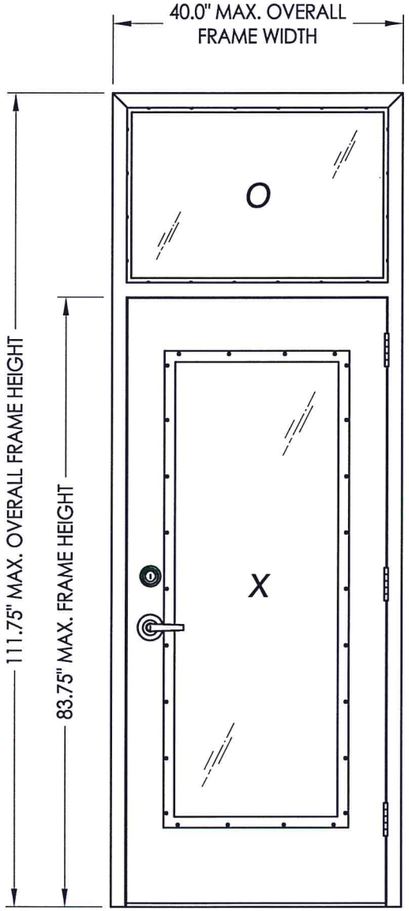
7	Bill of materials, glazing details & components



OVERALL FRAME DIMENSION	DOOR D.L.O. DIMENSION	TRANSOM D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
40.0" x 111.75"	22.5" x 62.5"	34.75" x 22.75"	+65.0	-70.0

L. F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

November 15, 2022

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: PREMIER PRODUCTS, INC. "D" STEEL DOOR

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY

REVISIONS

DATE: 11/10/22
SCALE: N.T.S.
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DRAWING NO.: FL-41788.19
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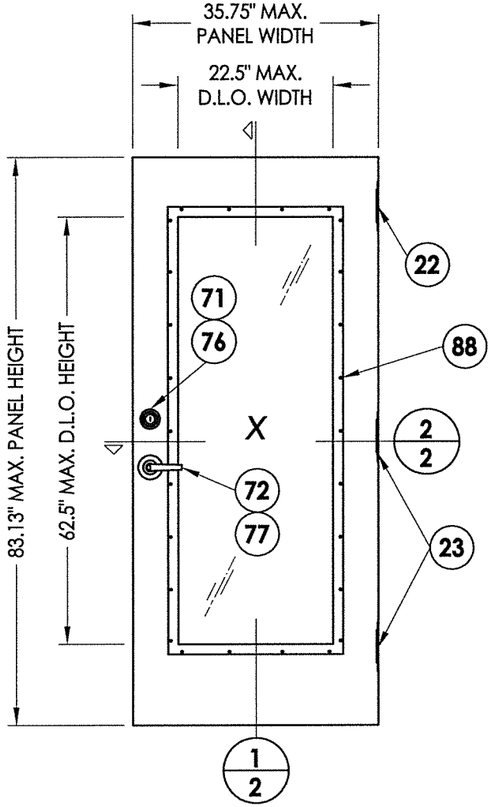
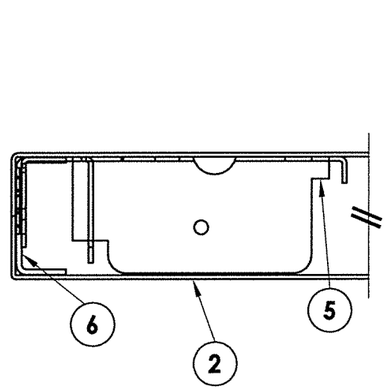
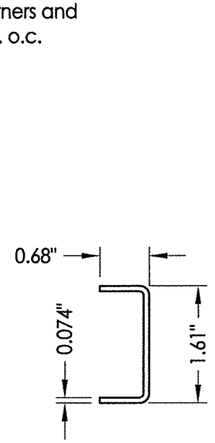


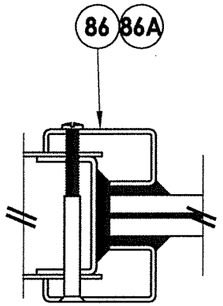
Glass stop retaining screws
2" from corners and
7-3/4" max. o.c.

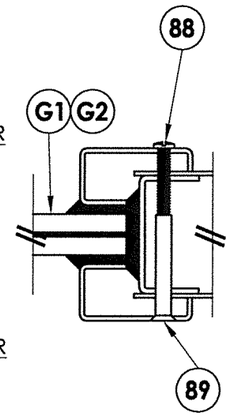
1 **"D" STEEL DOOR PANEL**

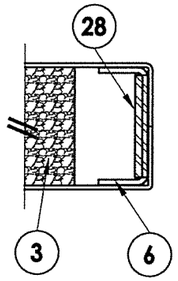




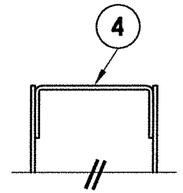
6 **DOOR STILE EDGE** Reinforcement

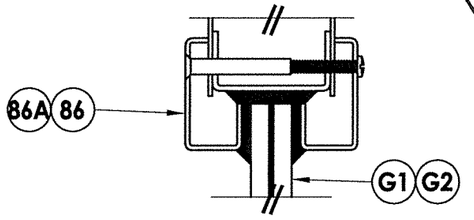


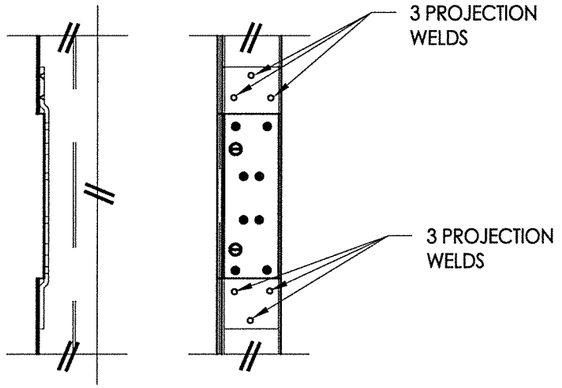




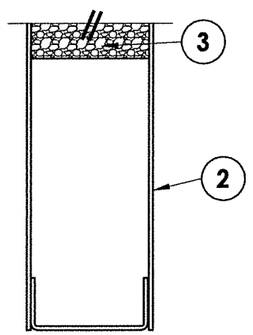
2/2 **HORIZONTAL CROSS SECTION**



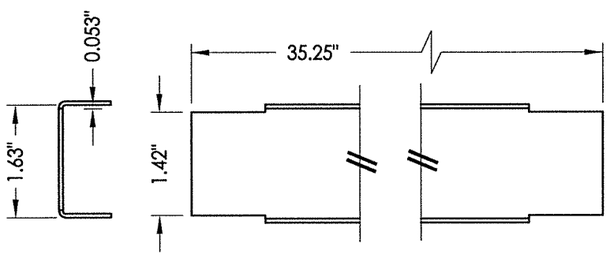




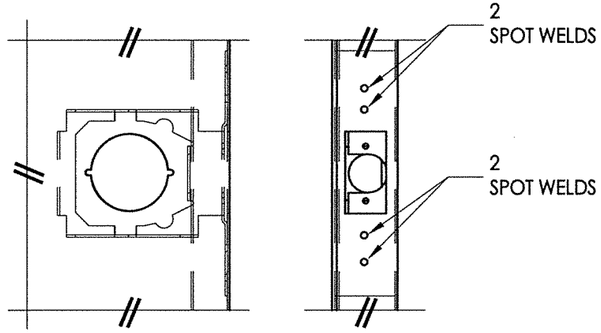
23 **DOOR HINGE REINFORCEMENT**



1/2 **VERTICAL CROSS SECTION**



4 **DOOR TOP & BOTTOM CLOSER**



5 **LOCK BOX REINFORCEMENT**

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PROFESSIONAL ENGINEER
November 15, 2022
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: *PREMIER PRODUCTS, INC. "D" STEEL DOOR*

PART OR ASSEMBLY: *DOOR PANEL DETAILS*

NO.	DATE	BY	REVISIONS

DATE: 11/10/22
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-41788.19
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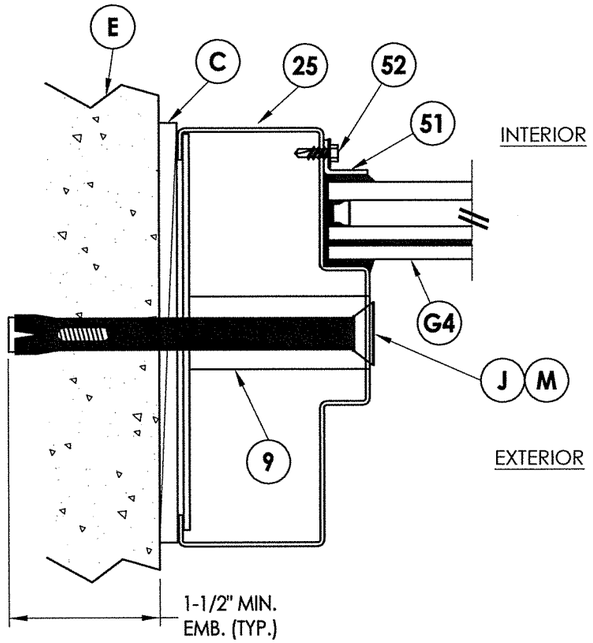
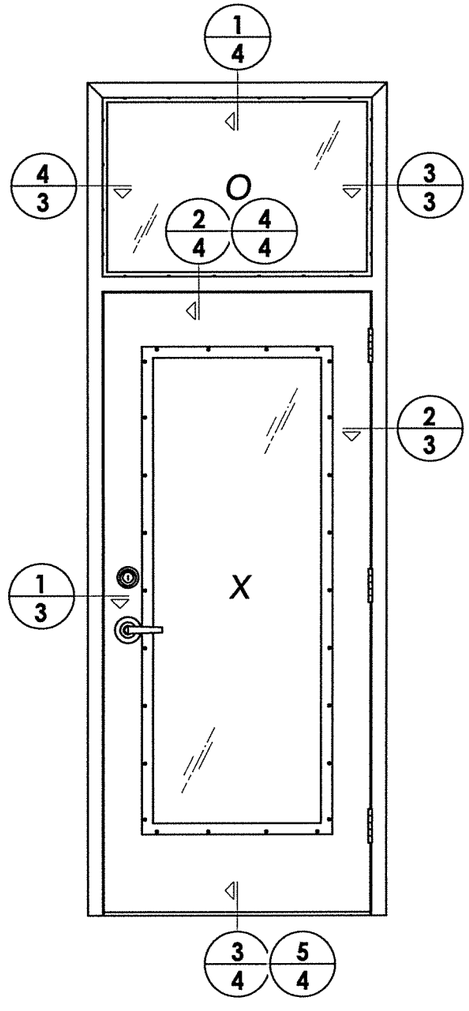
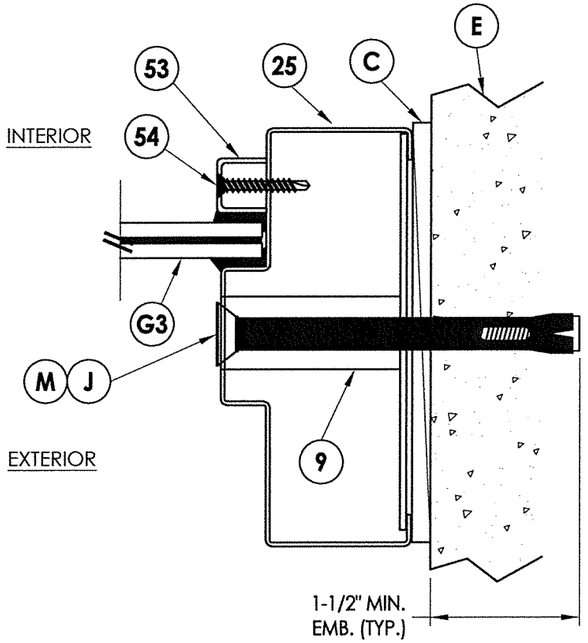


4/3 HORIZONTAL CROSS SECTION
Optional glazing





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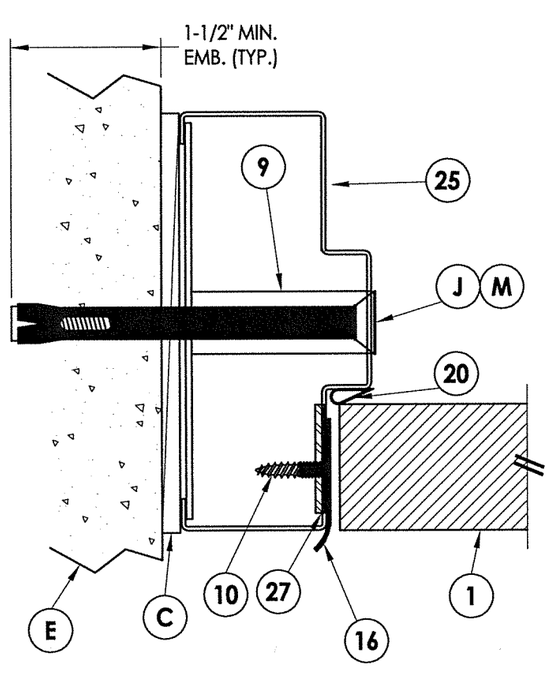

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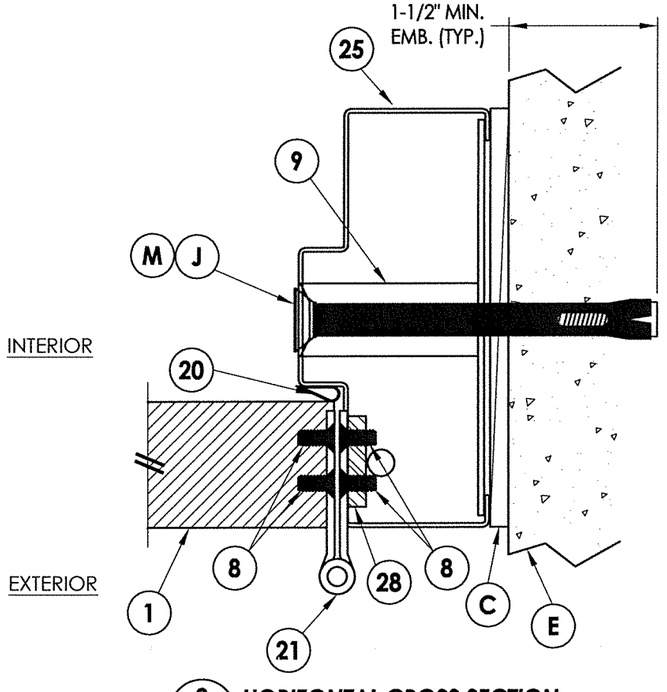

2/3 HORIZONTAL CROSS SECTION

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PRODUCT: *PREMIER PRODUCTS, INC. "D" STEEL DOOR*

PART OR ASSEMBLY: *HORIZONTAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY

DATE: 11/10/22
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
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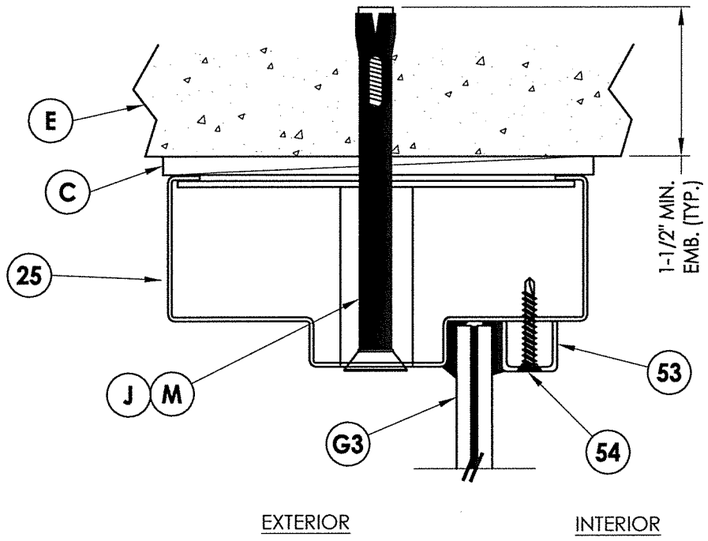
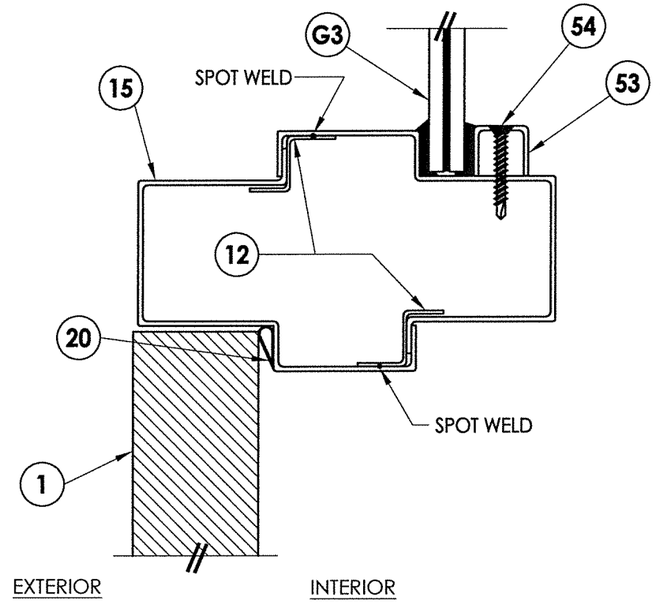


1/4 **VERTICAL CROSS SECTION**



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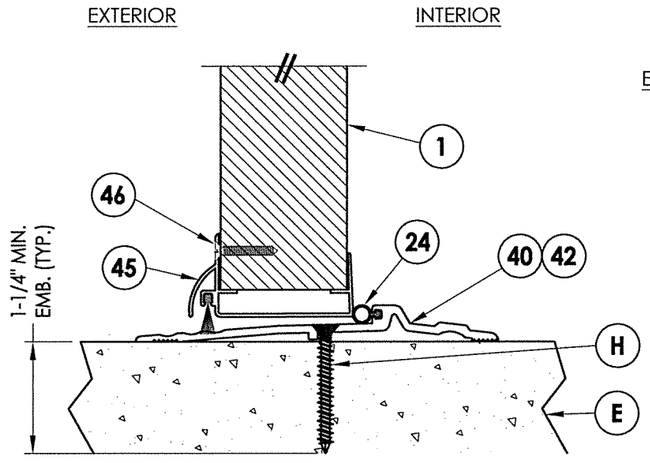

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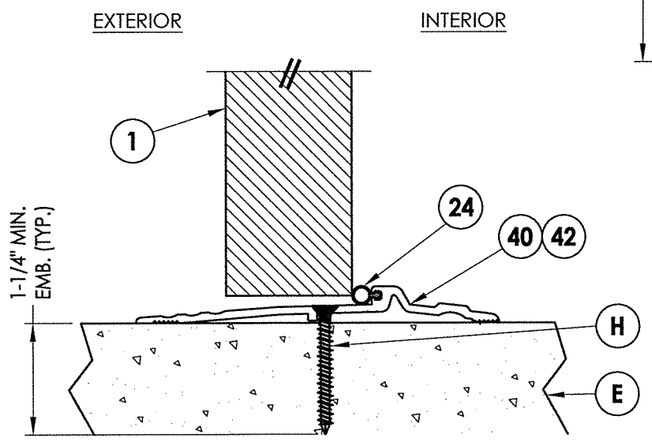
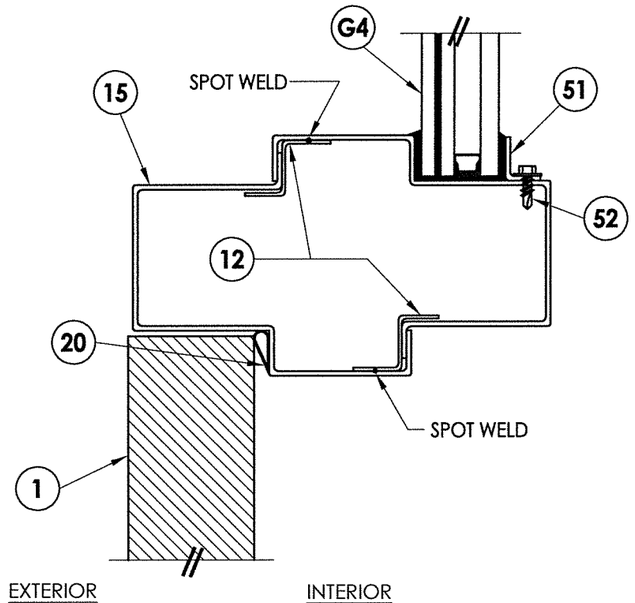


3/4 **VERTICAL CROSS SECTION**



4/4 **VERTICAL CROSS SECTION**
Optional glazing

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November 15, 2022
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FBPE Registry No. 9813

PRODUCT: *PREMIER PRODUCTS, INC. "D" STEEL DOOR*

PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY

DATE: 11/10/22
SCALE: N.T.S.
DWG. BY: LFS
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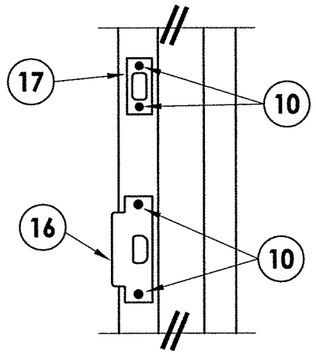
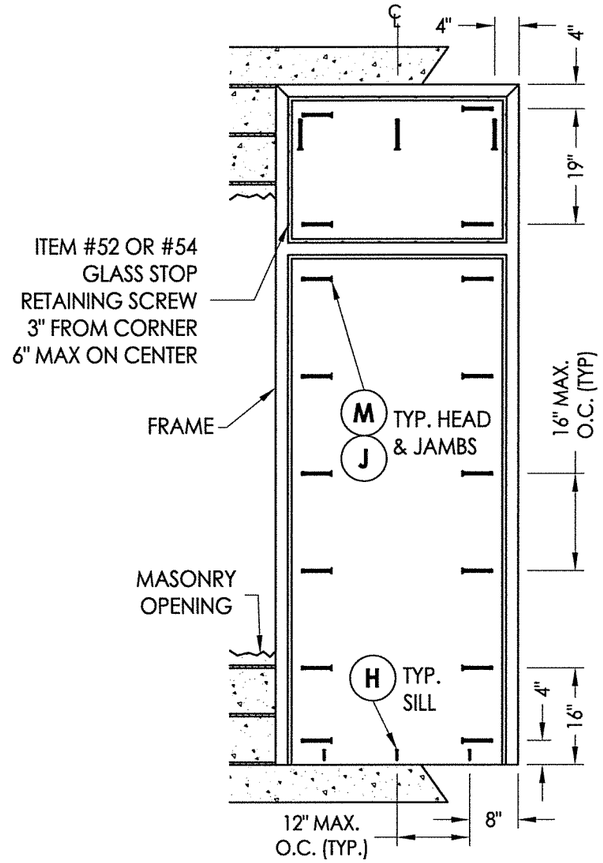
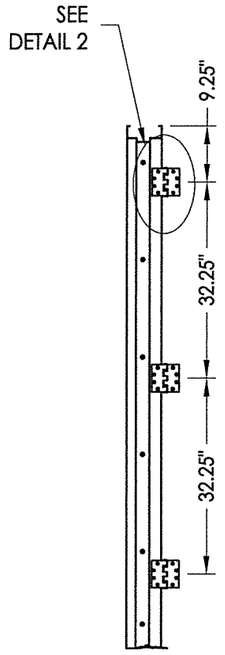


DETAIL 1

STRIKE JAMB



FRAME ANCHORING



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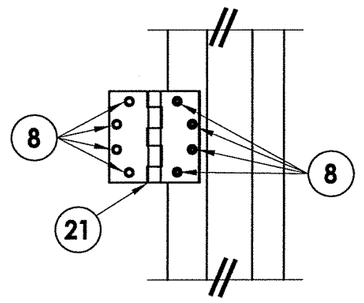

DETAIL 2

ANCHOR NOTES:

1. *Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.*
2. *Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.*
3. *Concrete Anchor Table:*

ANCHOR TYPE	ANCHOR SIZE	MINIMUM EMBEDMENT	MINIMUM CLEARANCE TO MASONRY EDGE	MINIMUM CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"
POWERS TAPPER	3/8"	1-1/2"	4"	3-3/4"

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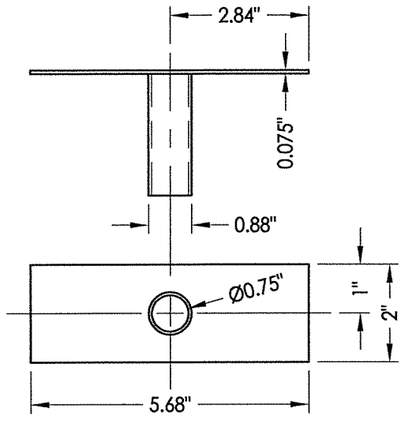
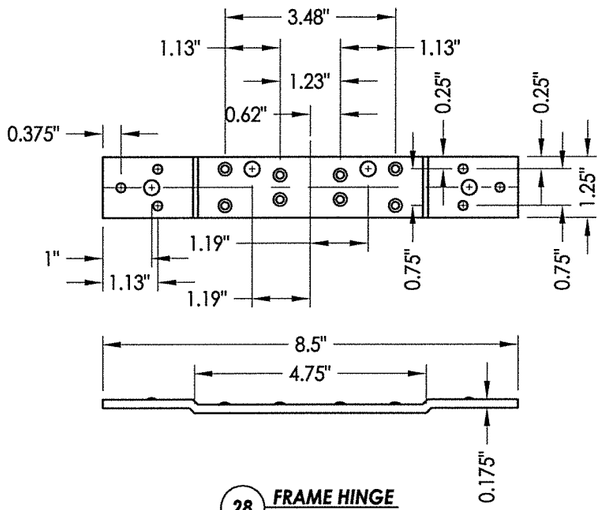
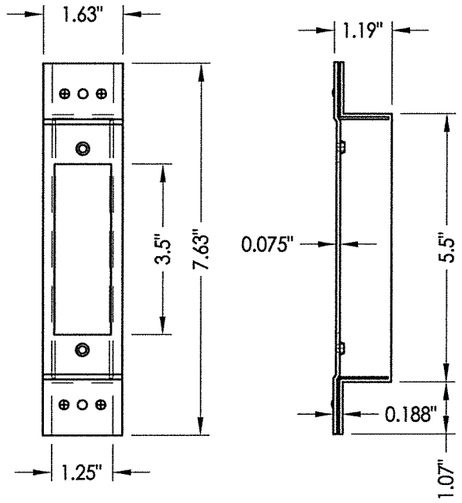


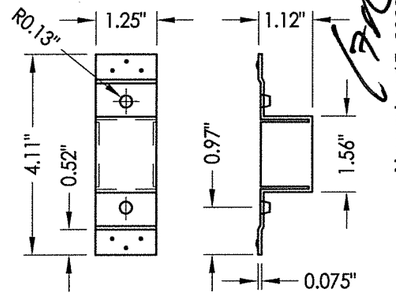
9 **TUBE ANCHOR**



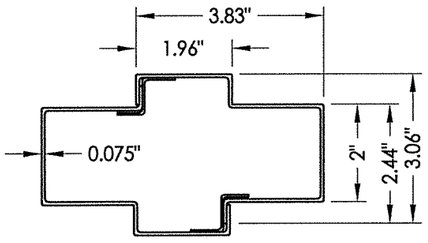
28 **FRAME HINGE** Reinforcement



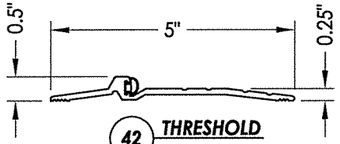
27 **LATCH STRIKE REINFORCEMENT**



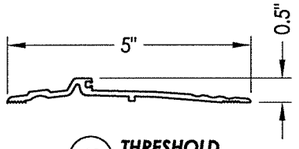
19 **DEADBOLT STRIKE REINFORCEMENT**



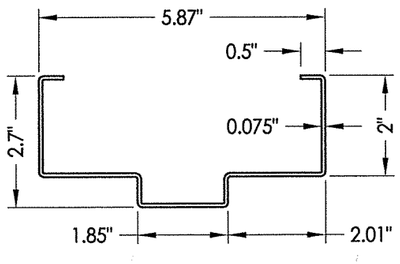
15 **MULLION**



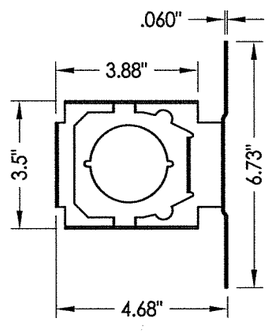
42 **THRESHOLD**



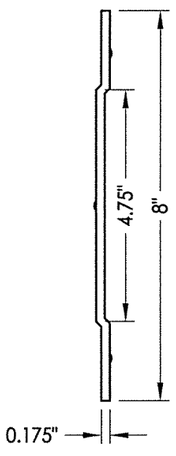
40 **THRESHOLD**

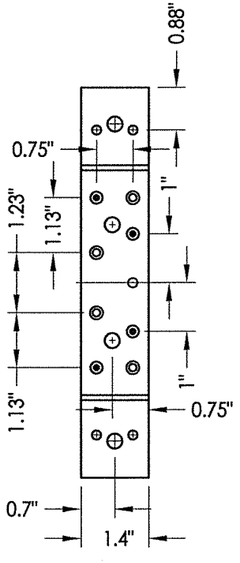


25 **HOLLOW METAL FRAME**

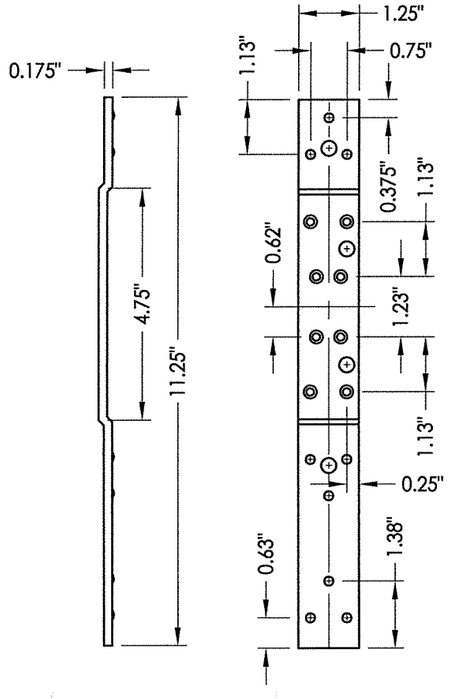


5 **LOCK BOX REINFORCEMENT**





23 **STANDARD (SHORT) DOOR HINGE**
Reinforcement middle and bottom hinge



22 **STANDARD (LONG) DOOR HINGE**
Reinforcement top hinge

L.F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

November 15, 2022

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: *PREMIER PRODUCTS, INC. "D" STEEL DOOR*

PART OR ASSEMBLY: *COMPONENTS*

NO.	DATE	REVISIONS	BY

DATE: 11/10/22
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-41788.19
SHEET 6 OF 7

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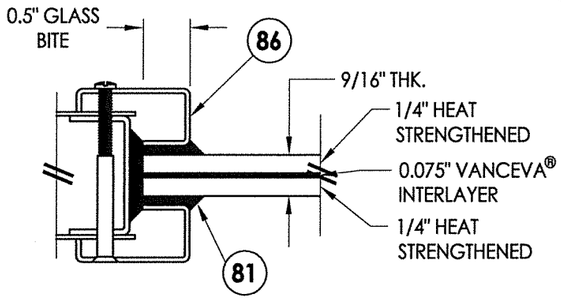
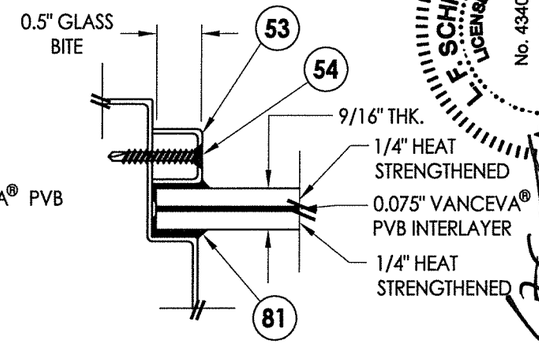
BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL
1	"D" STEEL DOOR PANEL	-
2	DOOR SKIN - 16GA (0.060" THK. STEEL, Fy = 40,317 PSI MIN.)	STEEL
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE
4	DOOR TOP & BOTTOM CLOSER	STEEL
5	LOCK BOX REINFORCEMENT	STEEL
6	DOOR STILE EDGE REINFORCEMENT (D DOOR)	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL
9	TUBE ANCHOR	STEEL
10	#12-24 X 1" COMBINATION MACHINE / WOOD SCREW	STEEL
12	MULLION Z BRACKET	STEEL
15	MULLION	STEEL
16	ANSI LATCH STRIKE	STEEL
17	DEADBOLT STRIKE	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL
20	WEATHERSTRIP	NEOPRENE
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
24	WEATHERSTRIP (THRESHOLD)	NEOPRENE
25	FRAME - 14GA (0.075" THK)	STEEL
27	LATCH STRIKE REINFORCEMENT	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
42	THRESHOLD PEMKO #2005V	ALUMINUM
45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
51	L-CHANNEL FIXED GLASS STOP	STEEL
52	#8 X .5" HH SELF DRILLING SCREW	STEEL
53	U-CHANNEL FIXED GLASS STOP	STEEL
54	#8 X 1.25" PFH SHEET METAL SCREW	STEEL
71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
81	DOW 995 STRUCTURAL SILICONE	SILICONE
86	LITE FRAME BY AIR LOUVERS #1500-AJ-2464	STEEL
86A	LITE FRAME BY AIR LOUVERS #VLFIG-HRC-2464-01	STEEL
88	#8 X 1-1/2" PPH MS	STEEL
89	SCREW COVER	STEEL



G1 GLAZING DETAIL



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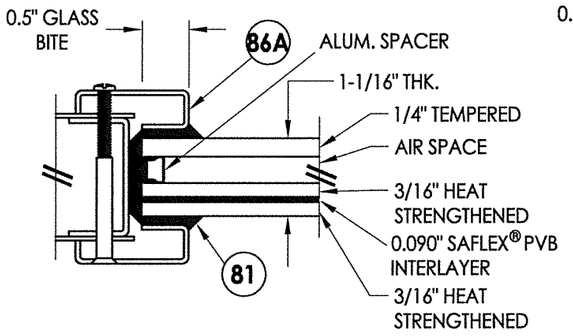

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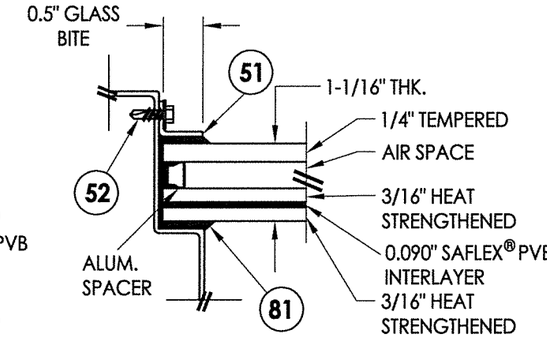

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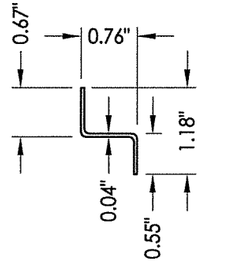
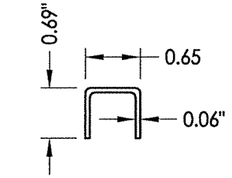
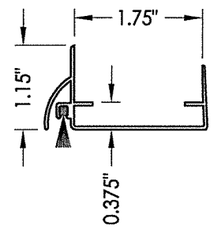


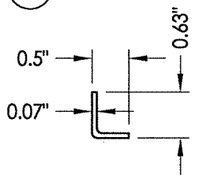
12 MULLION Z BRACKET



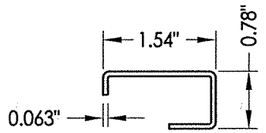
53 FIXED GLASS STOP



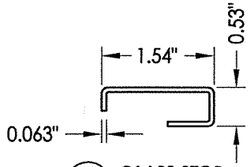
45 DOOR SWEEP



51 FIXED GLASS STOP



86 GLASS STOP



86A GLASS STOP

T. F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

November 15, 2022

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R.W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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PART OR ASSEMBLY: BILL OF MATERIALS, GLAZING DETAILS & COMPONENTS

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