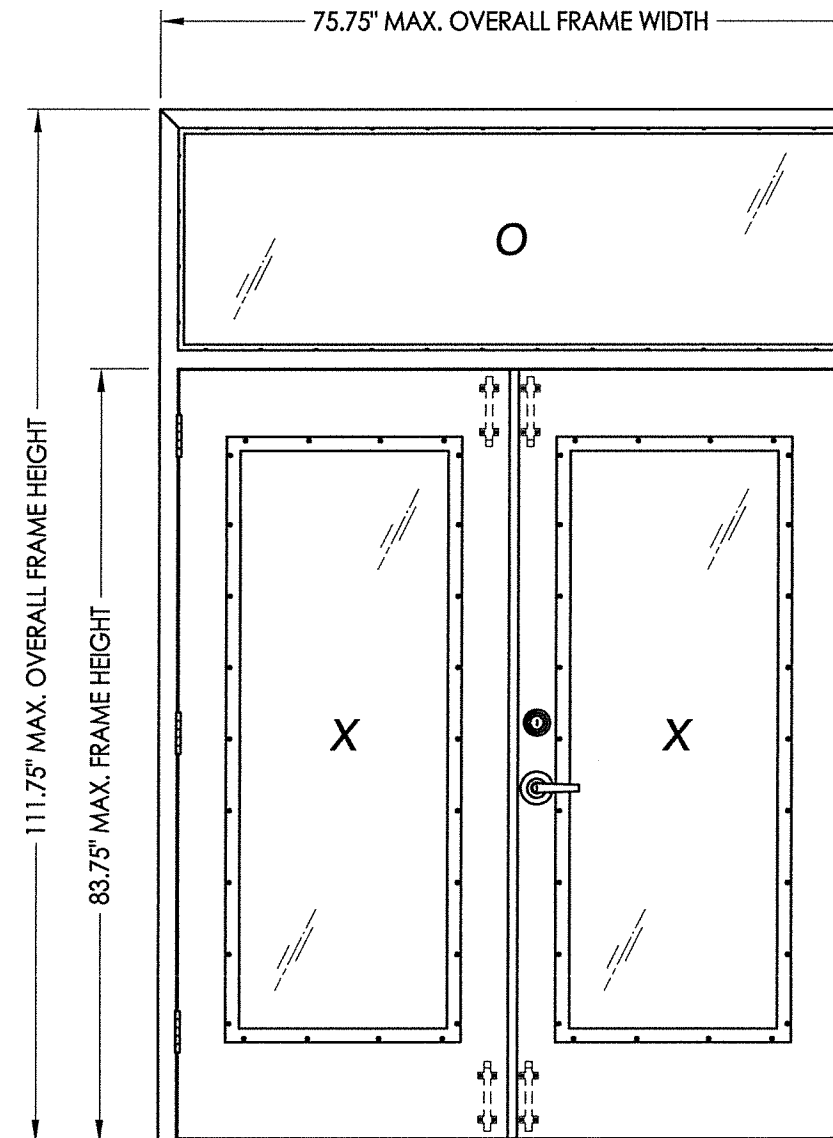


"D" SERIES
COMMERCIAL STEEL DOOR
w/ TRANSOM
OUTSWING
"NON-IMPACT"

GENERAL NOTES

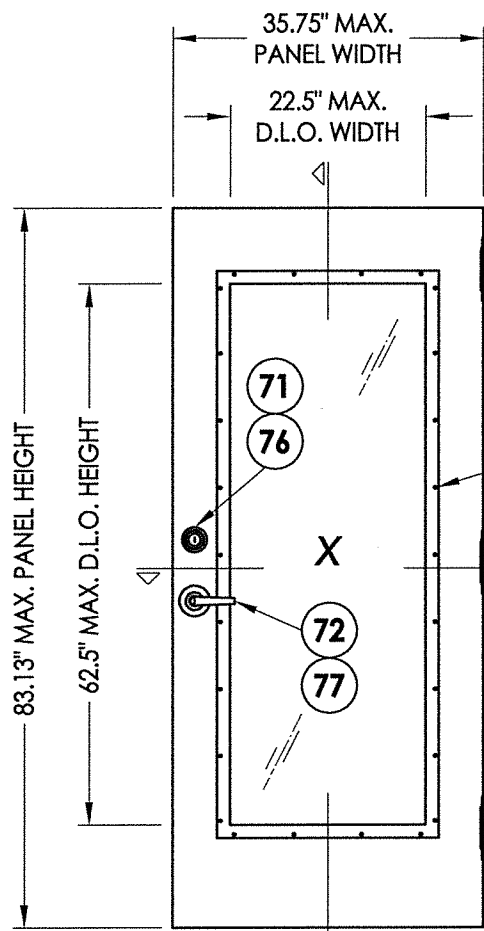
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Section 1609.1.2.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. The "D" door achieves a Class 1 stiffness classification per Section 8.2.2 of ANSI A250.13 (based on opaque door).

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Anchoring details
6	Components
7	Bill of materials, glazing details & components

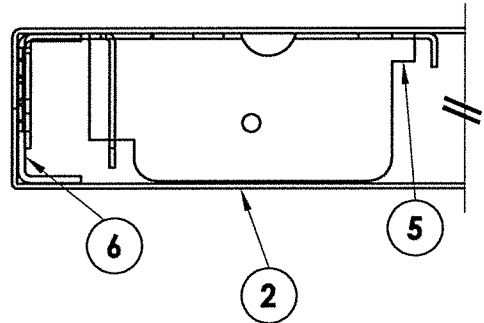


OVERALL FRAME DIMENSION	DOOR D.L.O. DIMENSION	TRANSOM D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
75.75" x 111.75"	22.5" x 62.5"	70.5" x 22.75"	+65.0	-70.0

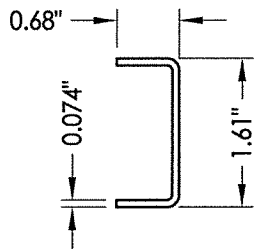
		No. 43409 ★ STATE OF FLORIDA PROFESSIONAL ENGINEER	
October 5, 2020		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PRODUCT:		MEGAMET INDUSTRIES, INC. "D" STEEL DOOR	
PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
REVISIONS		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DATE: 7/17/13		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-16493.4		SHEET 1 OF 7	



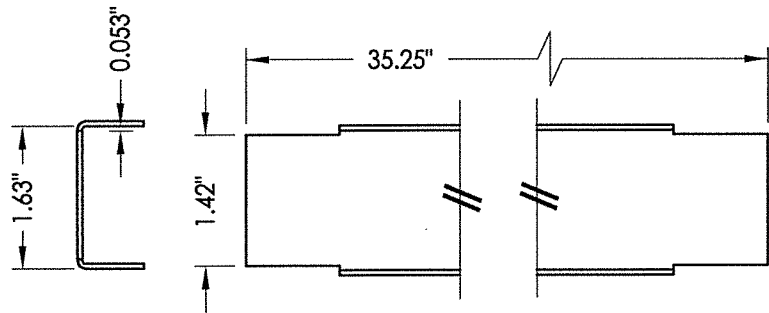
1 "D" STEEL DOOR PANEL



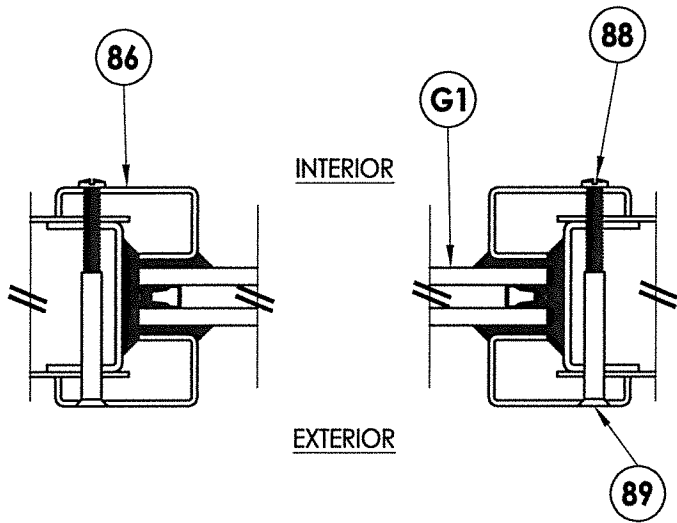
Glass stop retaining screws
2" from corners and
7-3/4" max. o.c.



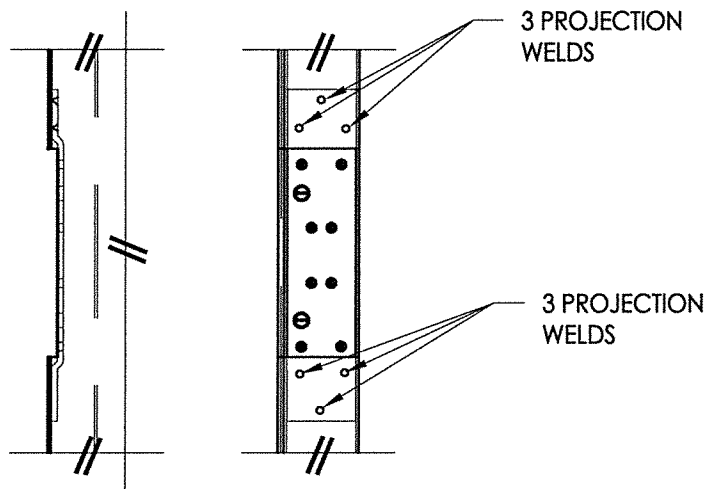
6 DOOR STILE EDGE Reinforcement



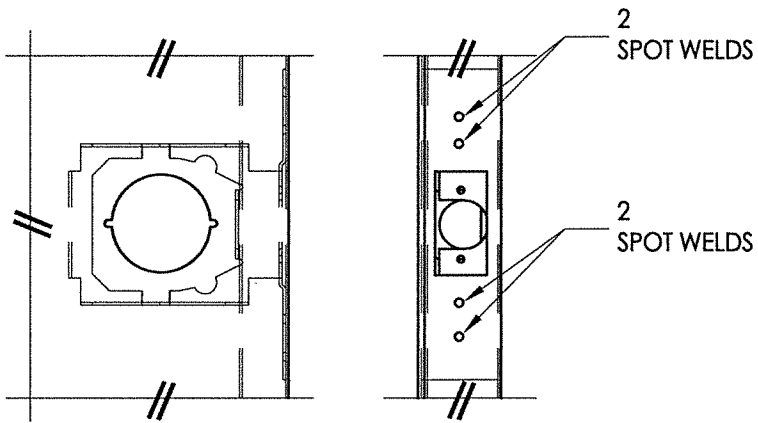
4 DOOR TOP & BOTTOM CLOSER



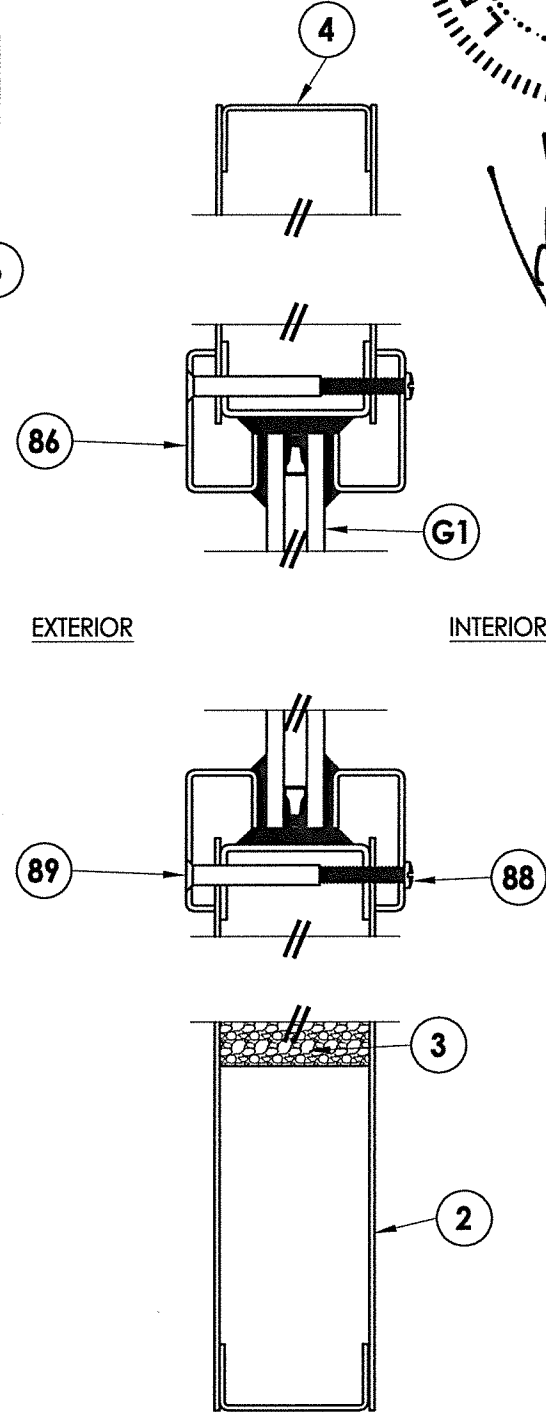
2 HORIZONTAL CROSS SECTION



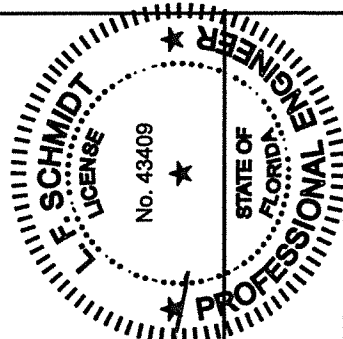
23 DOOR HINGE REINFORCEMENT



5 LOCK BOX REINFORCEMENT

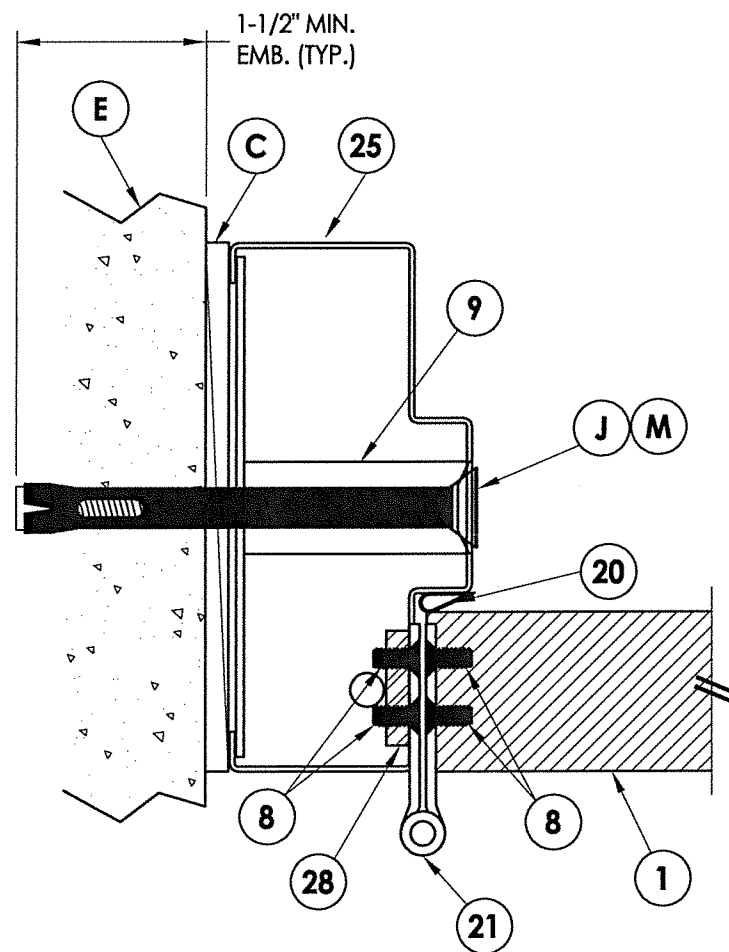


1 VERTICAL CROSS SECTION

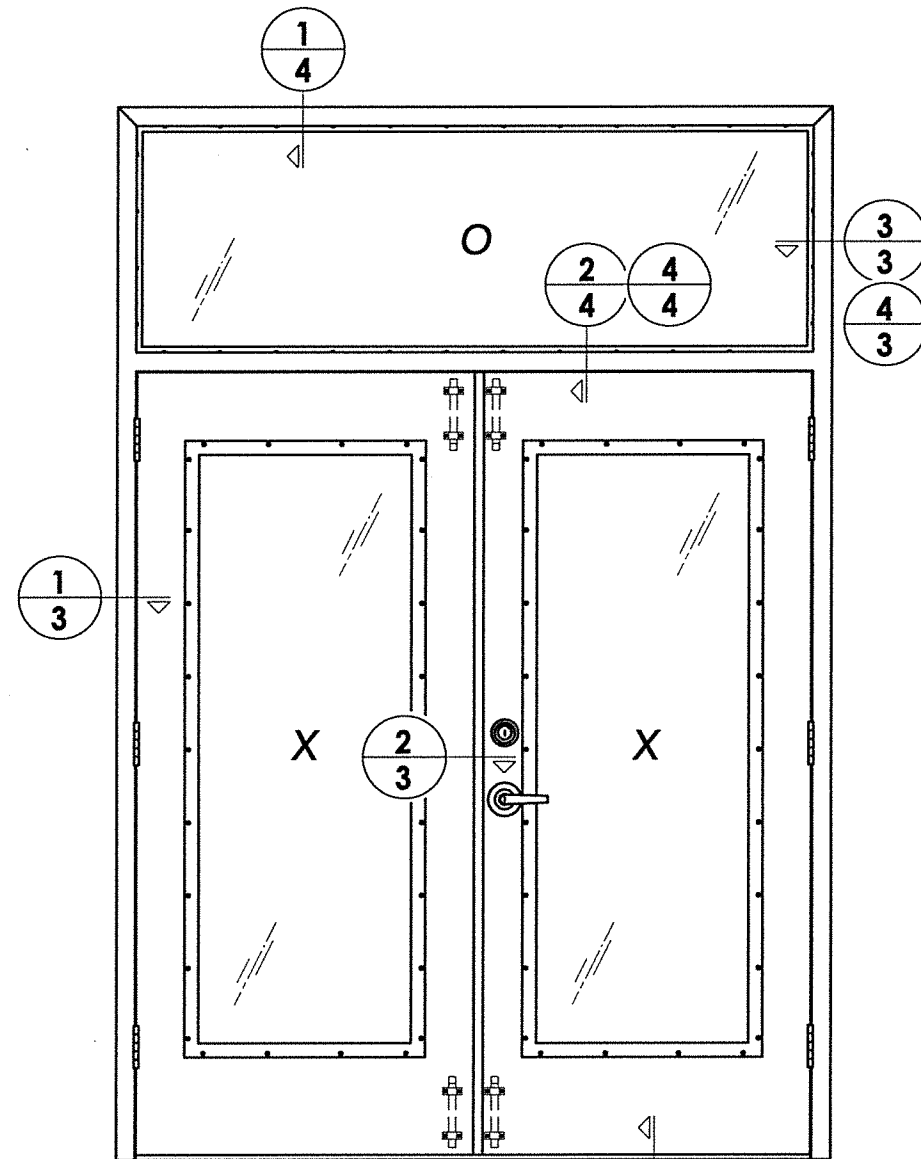


October 5, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

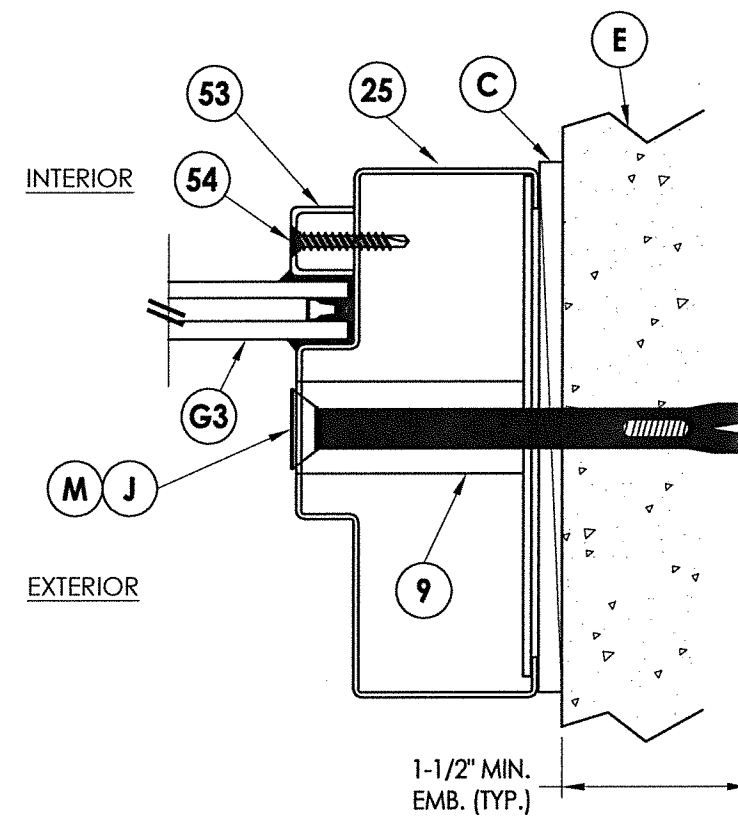
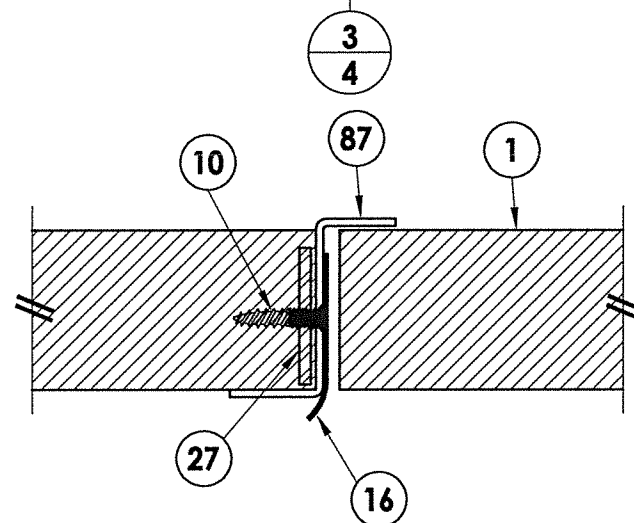
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		"D" STEEL DOOR					
			</				



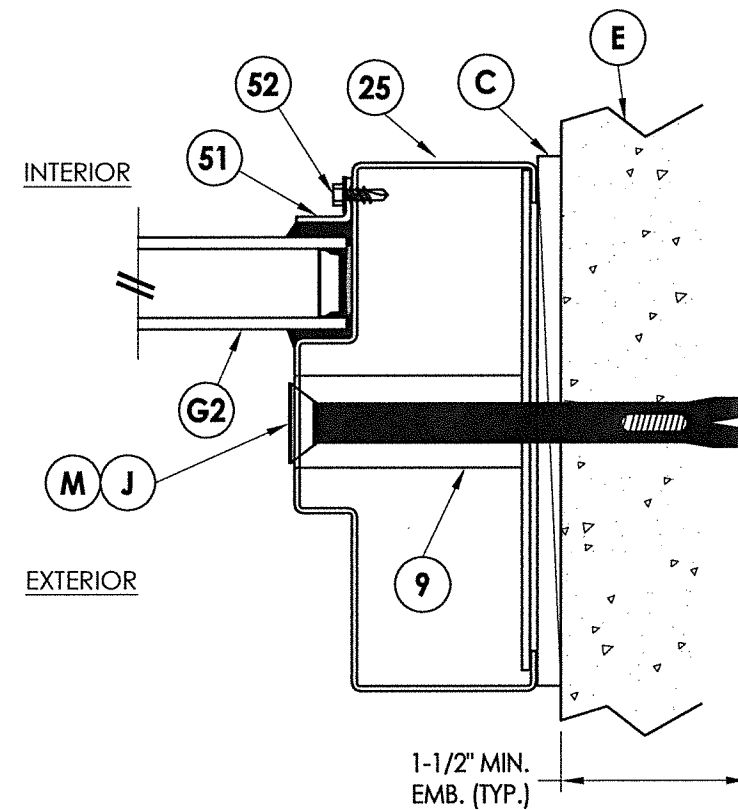
1 HORIZONTAL CROSS SECTION
3



2 HORIZONTAL CROSS SECTION



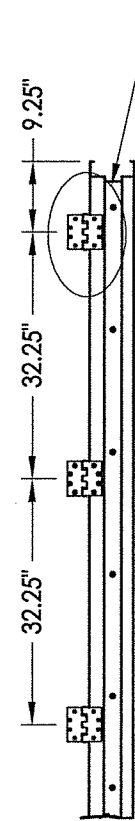
4 HORIZONTAL CROSS SECTION
3 Optional glazing



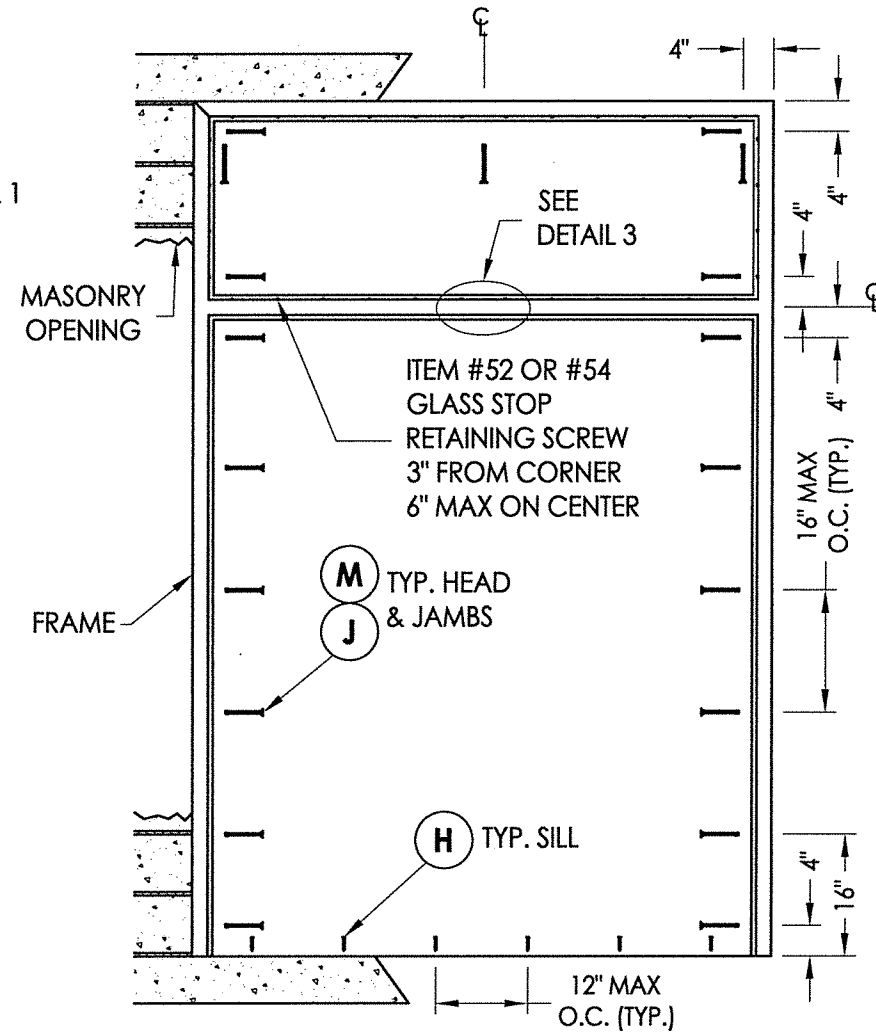
3 HORIZONTAL CROSS SECTION

		No. 43409 ★	
October 5, 2020		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PRODUCT: MEGAMET INDUSTRIES, INC. "D" STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
DATE: 7/17/13		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-16493.4		SHEET 3 OF 7	
REVISIONS		NO. DATE	
3 10/01/20 UPDATE TO 7TH ED. (2020) FBC		LFS	
2 10/16/17 UPDATE TO 6TH ED. (2017) FBC		LFS	
1 1/06/15 UPDATE TO 5th ED. (2014) FBC		LFS	
BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		R.W.	

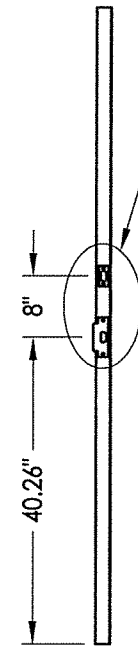
HINGE JAMB



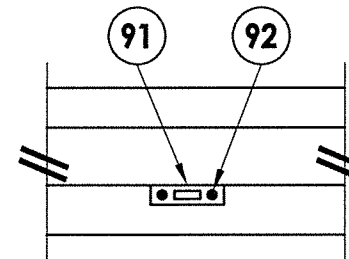
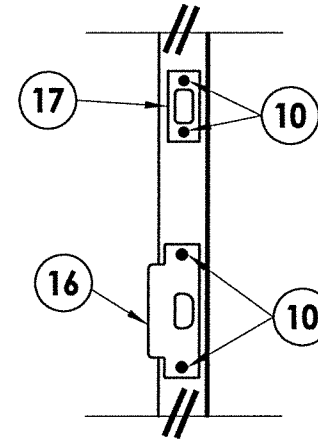
FRAME ANCHORING



STRIKE JAMB



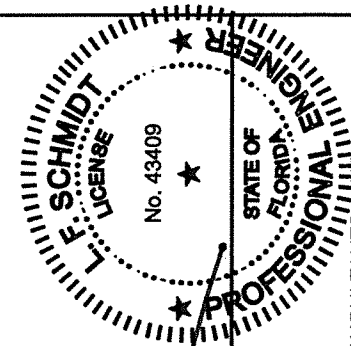
DETAIL 2



DETAIL 3

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"

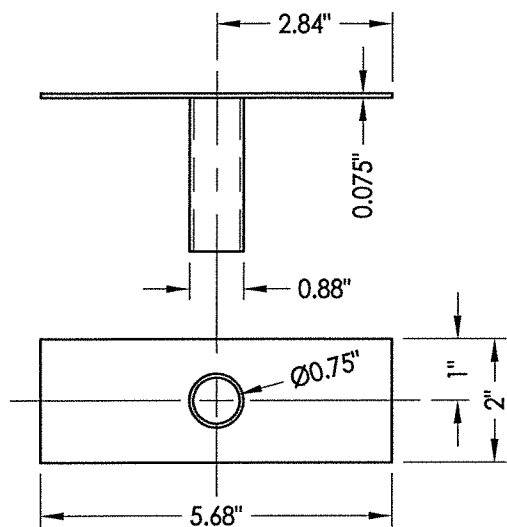


BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

ANCHORING DETAILS

[illegible]

SHEET 5 OF 7



Technical drawing of a cross-shaped part with the following dimensions:

- Overall width: 3.83"
- Inner width (excluding fillets): 1.96"
- Overall height: 3.06"
- Inner height (excluding fillets): 2.44"
- Fillet radius: 0.075"

Technical drawing of a frame hinge, showing top and side views with dimensions in inches.

Top View Dimensions:

- Overall width: 3.48"
- Distance from left edge to first hole center: 1.13"
- Distance between first and second hole centers: 1.23"
- Distance from second hole center to right edge: 1.13"
- Distance from left edge to first hole center (alternative): 0.375"
- Distance from left edge to first hole center (alternative): 0.62"
- Distance from second hole center to right edge (alternative): 0.25"
- Distance from left edge to first hole center (alternative): 1"
- Distance from left edge to first hole center (alternative): 1.13"
- Distance from second hole center to right edge (alternative): 1.19"
- Distance from second hole center to right edge (alternative): 1.19"
- Distance from left edge to first hole center (alternative): 0.75"
- Distance from second hole center to right edge (alternative): 0.75"
- Distance from second hole center to right edge (alternative): 1.25"

Side View Dimensions:

- Overall length: 8.5"
- Distance from left edge to first hole center: 4.75"
- Distance from second hole center to right edge: 0.175"

Technical drawing of a square nut. The drawing shows a top view and a side view. The top view is a square with a central circular hole. The side view shows the profile of the nut, including the flange and the threaded portion. Dimensions are provided in inches:

- Top view width: 3.88"
- Top view height: 3.5"
- Bottom view width: 4.68"
- Side view height: 6.73"
- Thread pitch: .060"

Technical drawing of a mechanical part showing two views: a side view and a top view.

Side View (Left):

- Total width: 8"
- Central slot width: 4.75"
- Part thickness: 0.175"

Top View (Right):

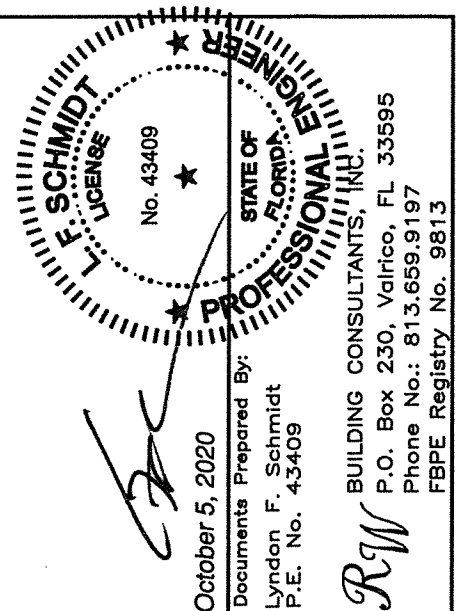
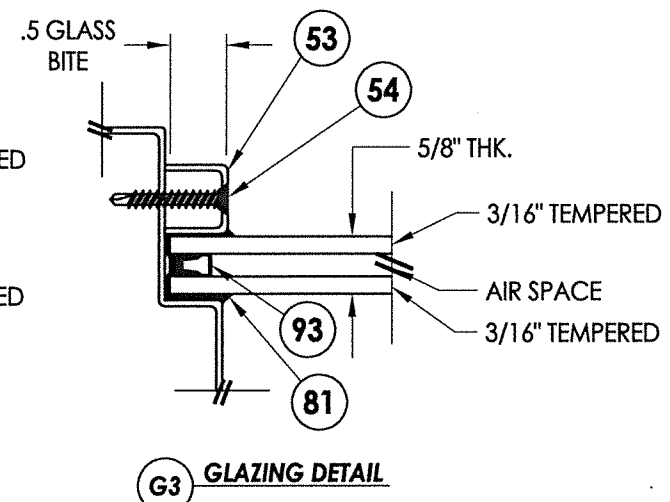
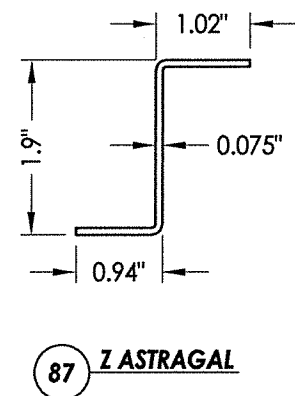
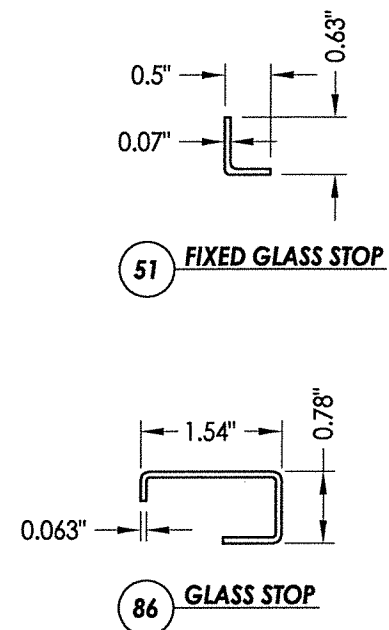
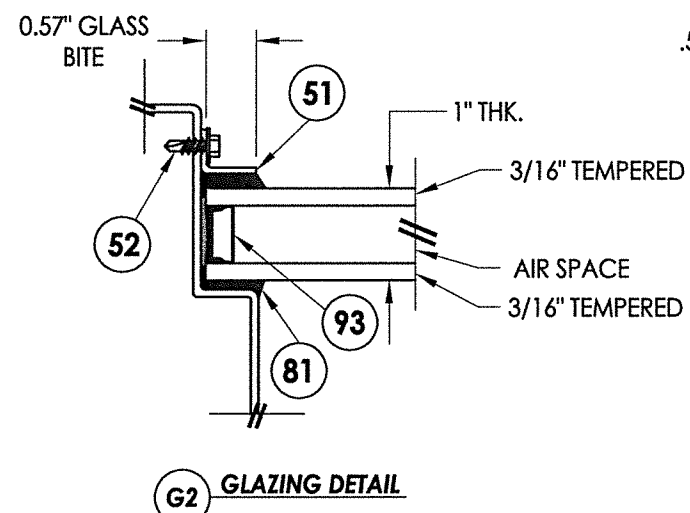
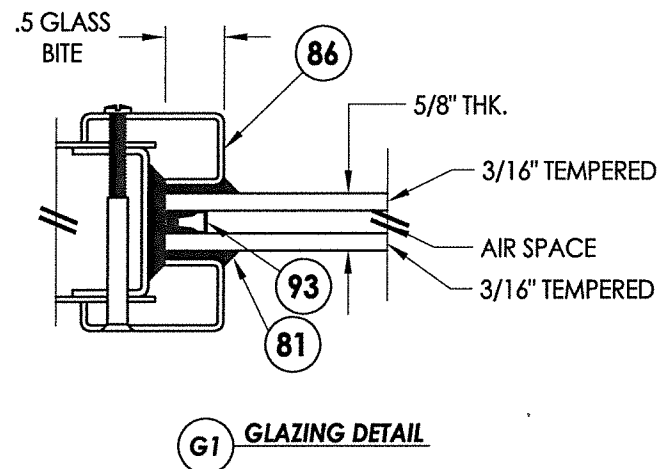
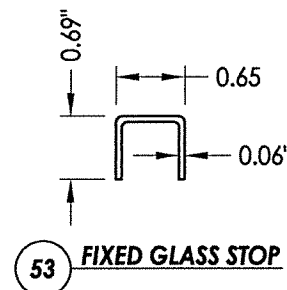
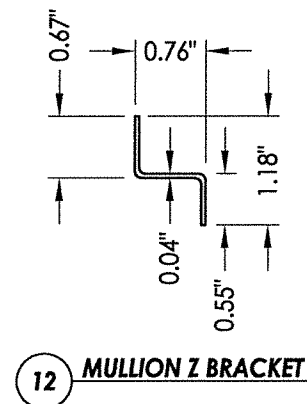
- Total length: 14"
- Central slot width: 0.7"
- Grid of 16 holes (4 rows by 4 columns)
- Dimensions for hole spacing: 1.13" and 1.23"
- Dimensions for hole diameter: 0.75" and 1"

91 SURFACE BOLT PLATE

Technical drawing of a rectangular plate. The front view shows a plate with a total width of 1.25" and a total height of 4.11". The top-left corner is rounded with a radius of R0.13". The plate is divided into four horizontal sections. The top section has a height of 0.52" and contains a central hole. The bottom section also contains a central hole. The middle two sections are empty. The side view shows a plate with a thickness of 0.075". The top surface has a width of 1.12" and a height of 0.97". The bottom surface has a width of 1.56" and a height of 0.97".

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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" PFH DeWALT OR ITW 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
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
82	SURFACE BOLT	STEEL
83	1/4" X 2-1/2" PPH MS	STEEL
86	LITE FRAME BY AIR LOUVERS #1500-AJ-2464	STEEL
87	Z ASTRAGAL	STEEL
88	#8 X 1-1/2" PPH MS	STEEL
89	SCREW COVER	STEEL
91	SURFACE BOLT PLATE	STEEL
92	#8 X 1-1/4" PPH SELF TAPPER	STEEL
93	GLASS SPACER	ALUMINUM



DATE: 7/17/13		PRODUCT: MEGAMET INDUSTRIES, INC. "D" STEEL DOOR	
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16493.4			
SHEET 7 OF 7			
3	10/01/20	UPDATE TO 7TH ED. (2020)	FBC LFS
2	10/16/17	UPDATE TO 6TH ED. (2017)	FBC LFS
1	1/06/15	UPDATE TO 5th ED. (2014)	FBC LFS
NO.	DATE		BY
		REVISIONS	
PART OR ASSEMBLY: BILL OF MATERIALS, GLAZING DETAILS & COMPONENTS			