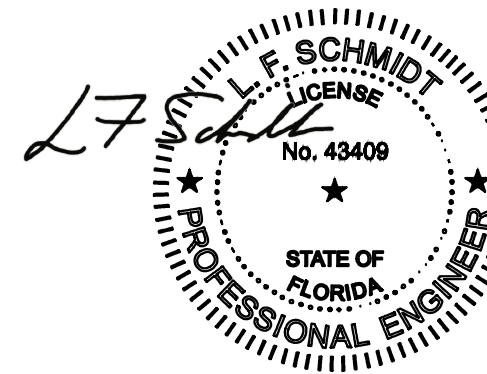


GENERAL NOTES

When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel sections 161 lock prep
3	Horizontal cross sections
4	Vertical cross sections
5	Anchoring details
6	Glazing detail & components
7	Bill of materials & components

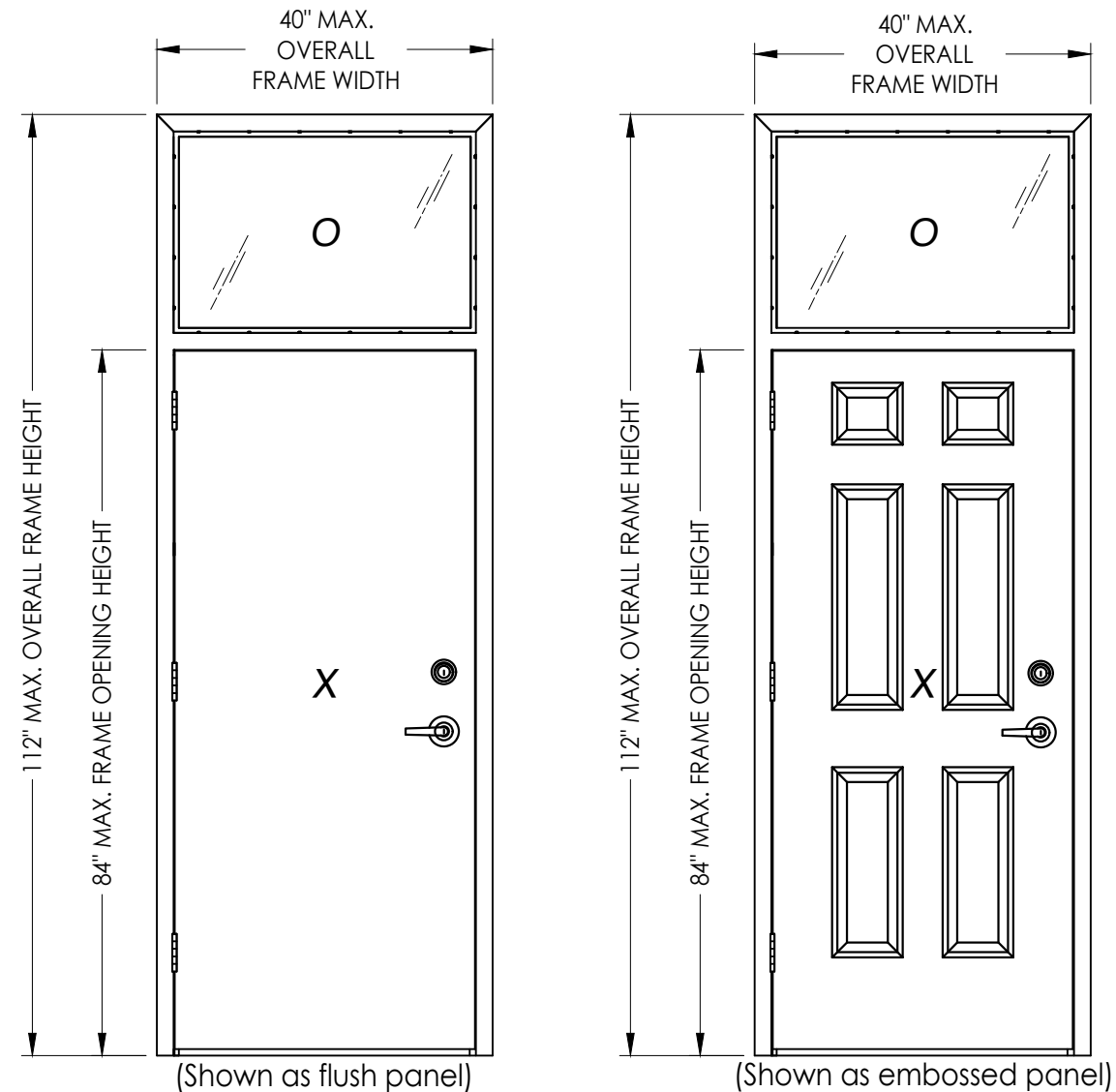


Digitally signed by
Lyndon F Schmidt
Date: 2026.07.24
08:36:43 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

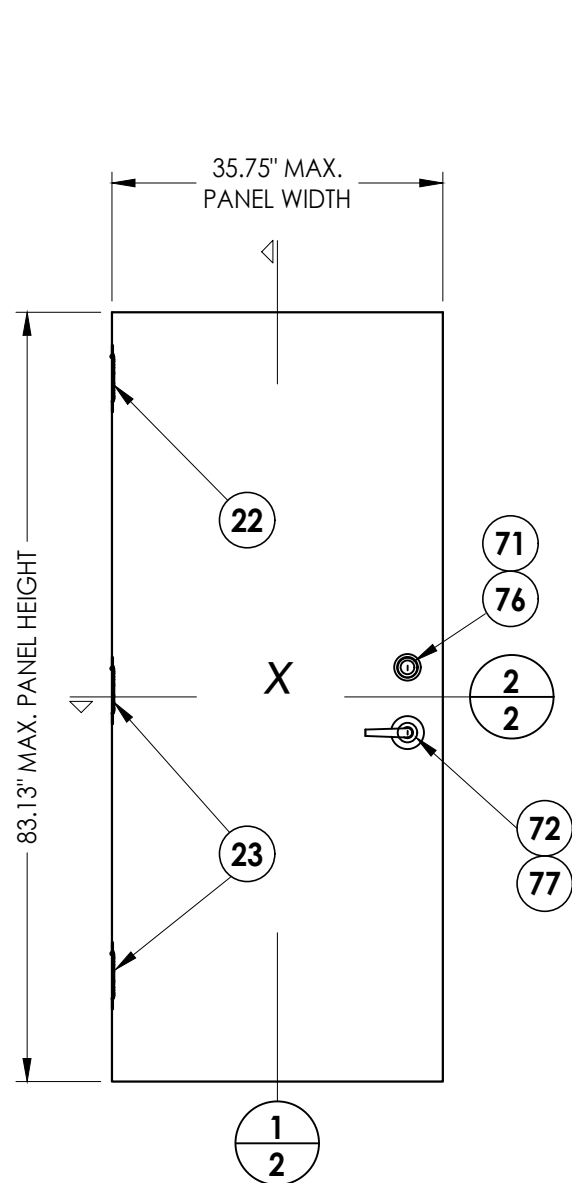
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



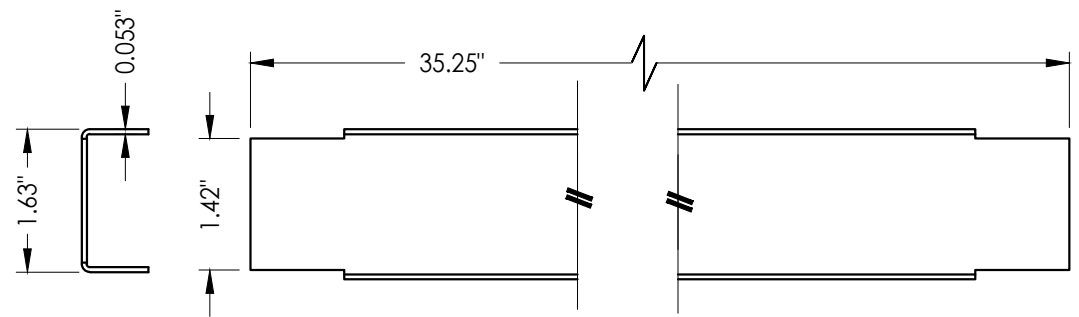
OVERALL FRAME DIMENSION	TRANSOM D.L.O. DIMENSION	LOCK TYPE	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
40.0" x 112.0"	34.75" x 22.75"	161 LATCH (SCHLAGE)	G1	+55.0	-55.0
		161 LATCH & DEADBOLT (DESIGN HARDWARE)		+65.0	-65.0

DATE: 2/19/09										SHEET 1 OF 7									
SCALE: N.T.S.										DRAWING NO.: FL-12169.1									
DWG. BY: AL										CHK. BY: LFS									
DRAWING NO.:										FL-12169.1									
NO.										DATE									
5										7/01/26									
4										7/11/23									
3										7/30/20									
2										7/17/17									
1										10/14/16									
UPDATE TO 9TH ED.										(2026)									
UPDATE TO 8TH ED.										(2023)									
UPDATE TO 7TH ED.										(2020)									
UPDATE TO 6TH ED.										(2017)									
UPDATE TO 5TH ED.										(2014)									
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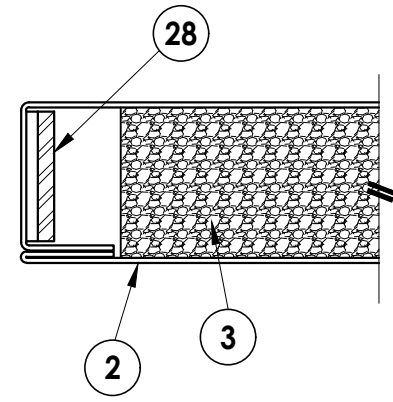
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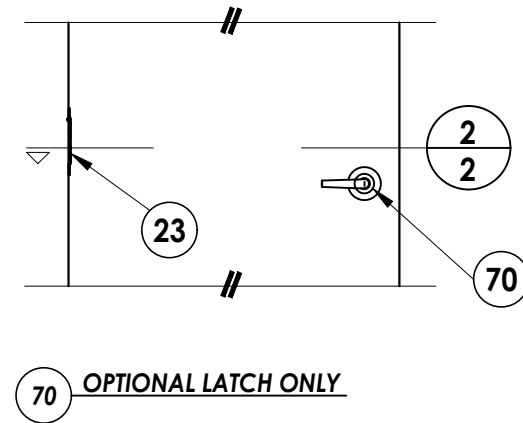
1 "N" OPAQUE STEEL DOOR PANEL



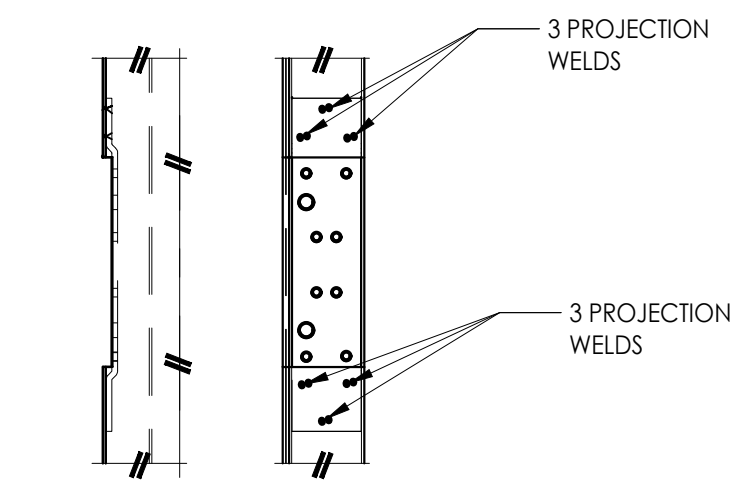
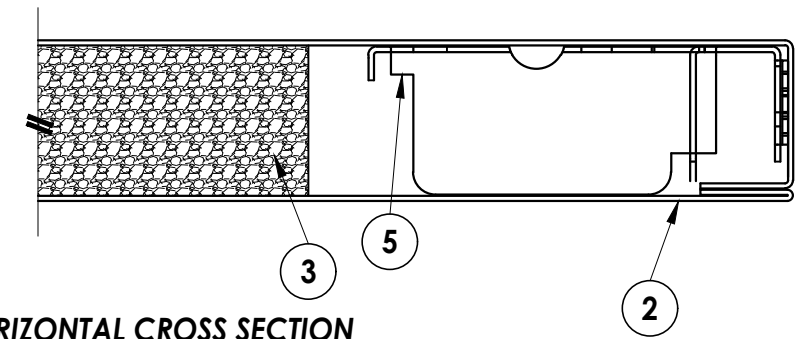
4 DOOR TOP & BOTTOM CLOSER



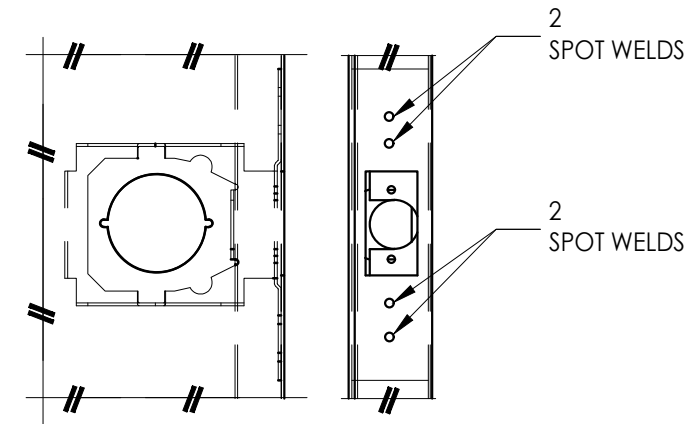
2 HORIZONTAL CROSS SECTION
2 Door panel



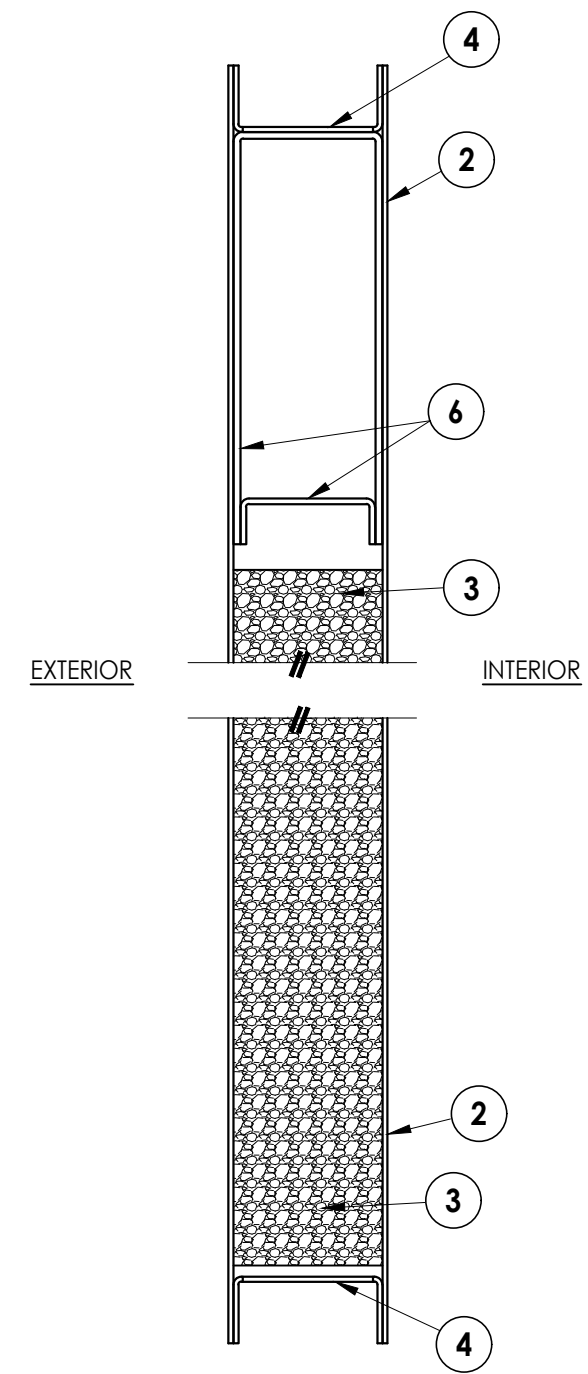
70 OPTIONAL LATCH ONLY



23 DOOR HINGE REINFORCEMENT



5 LOCK BOX REINFORCEMENT

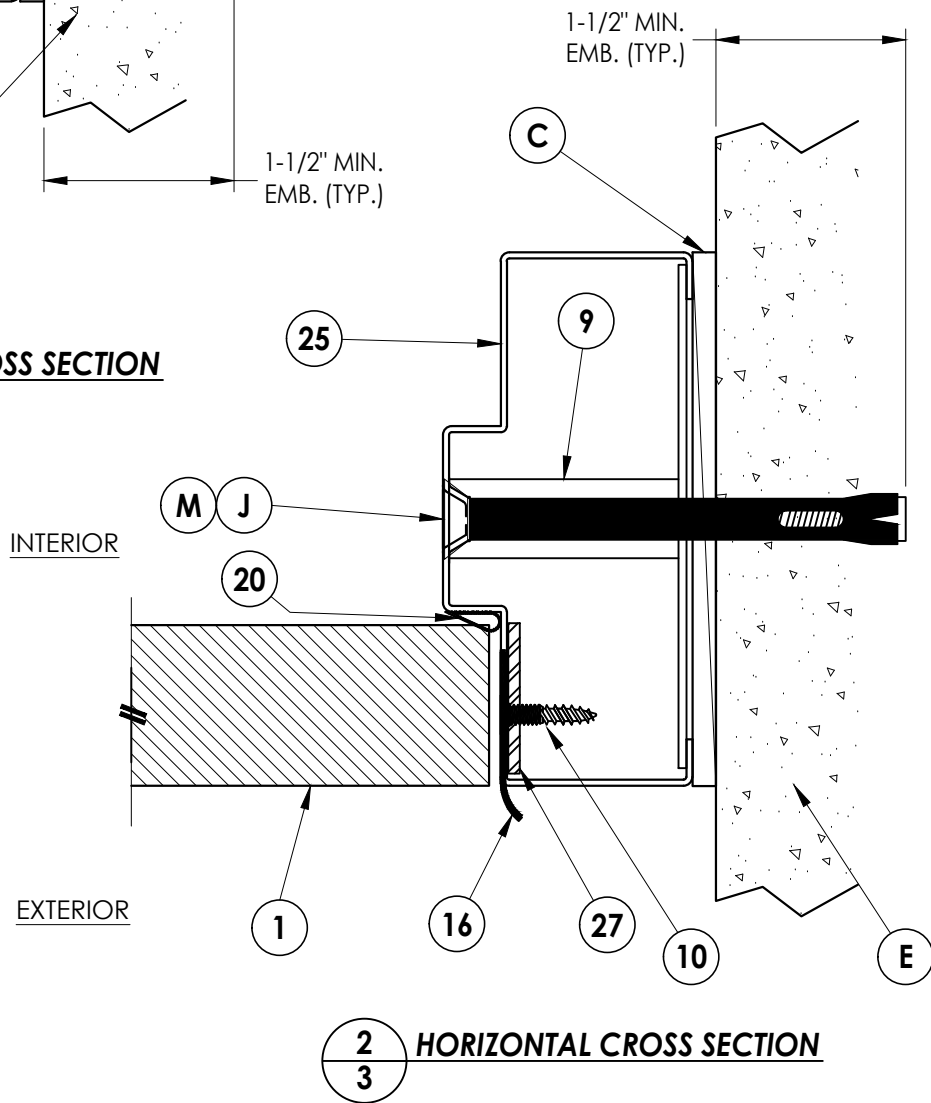
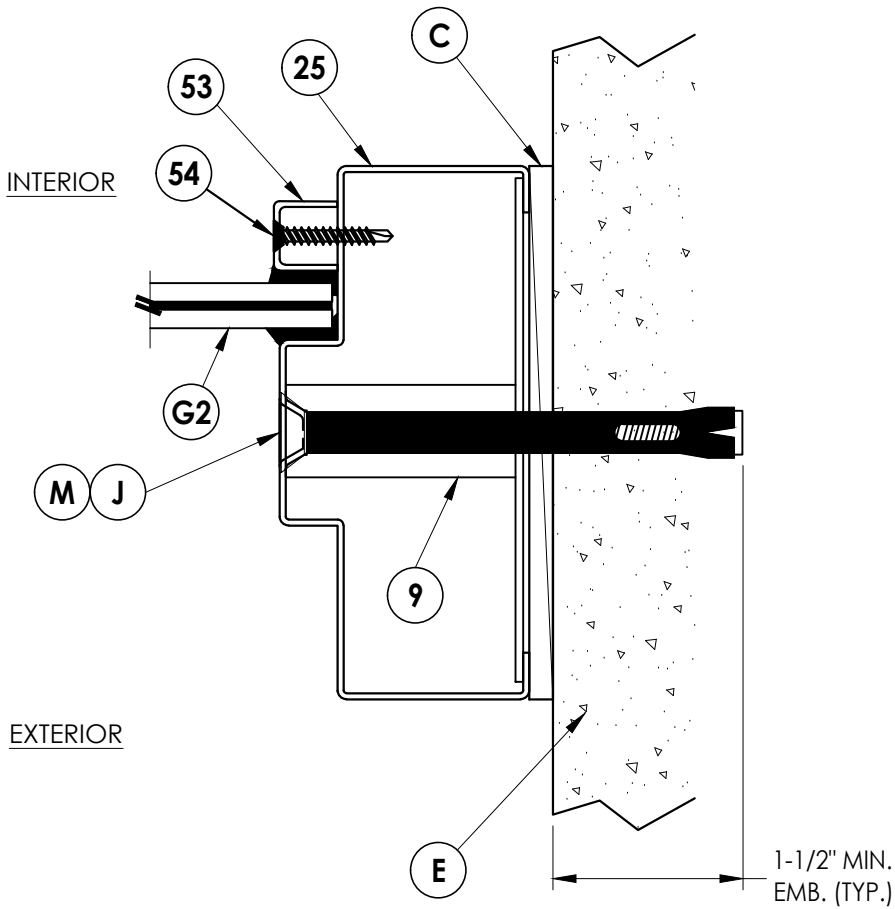
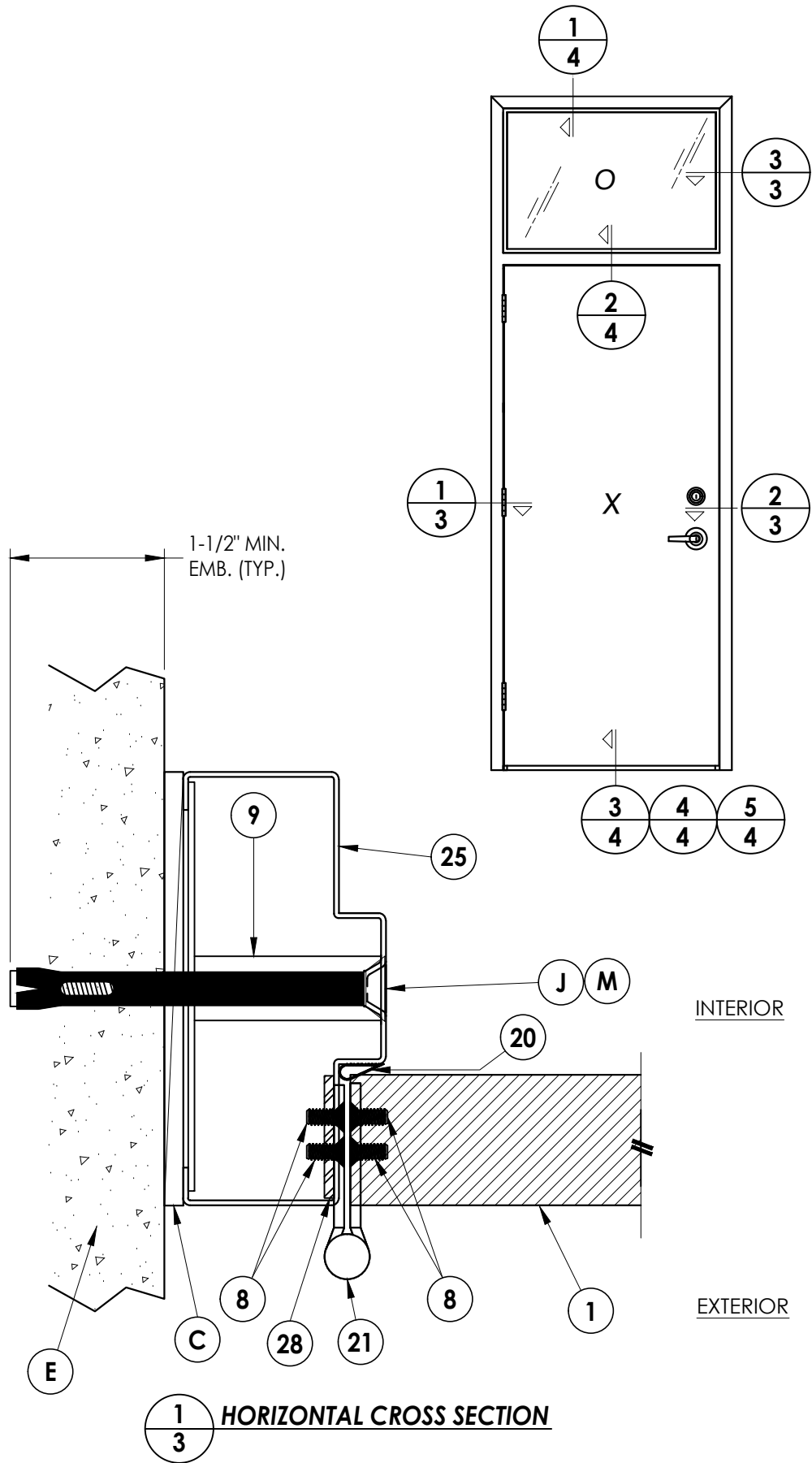


1 VERTICAL CROSS SECTION
2 Door panel

NOTE: ALL WELDING TO CONFORM w/ AMERICAN WELDING SOCIETY, ANSI/AWS AS PER FBC SECTION 2214.3.4.

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Vairco, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR		PART OR ASSEMBLY: DOOR PANEL SECTIONS 161 LOCK PREP	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC LFS
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC DAC
2	7/17/17	UPDATE TO 6TH ED. (2017)	FBC LFS
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC JK
NO. DATE		BY	
REVISIONS			
DATE: 2/19/09			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12169.1			
SHEET 2 OF 7			

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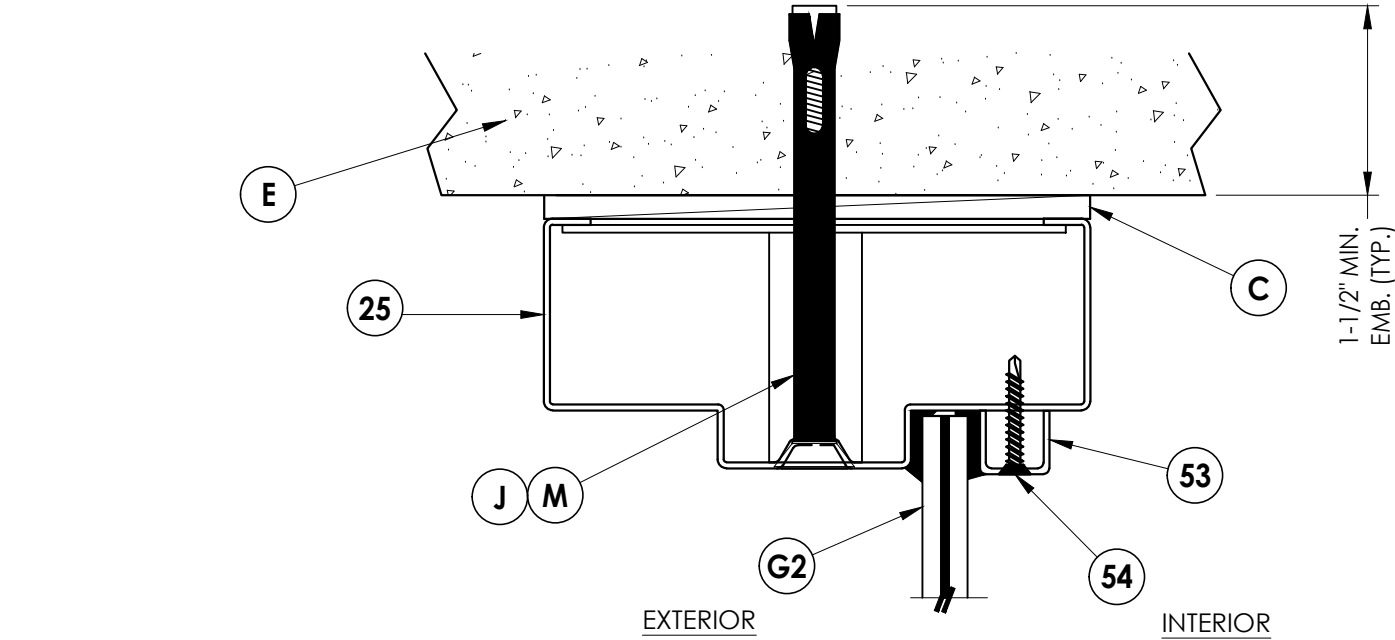


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SCALE:		N.T.S.
DWG. BY:		AL
CHK. BY:		LFS
DRAWING NO.:		FL-12169.1
SHEET		3 OF 7

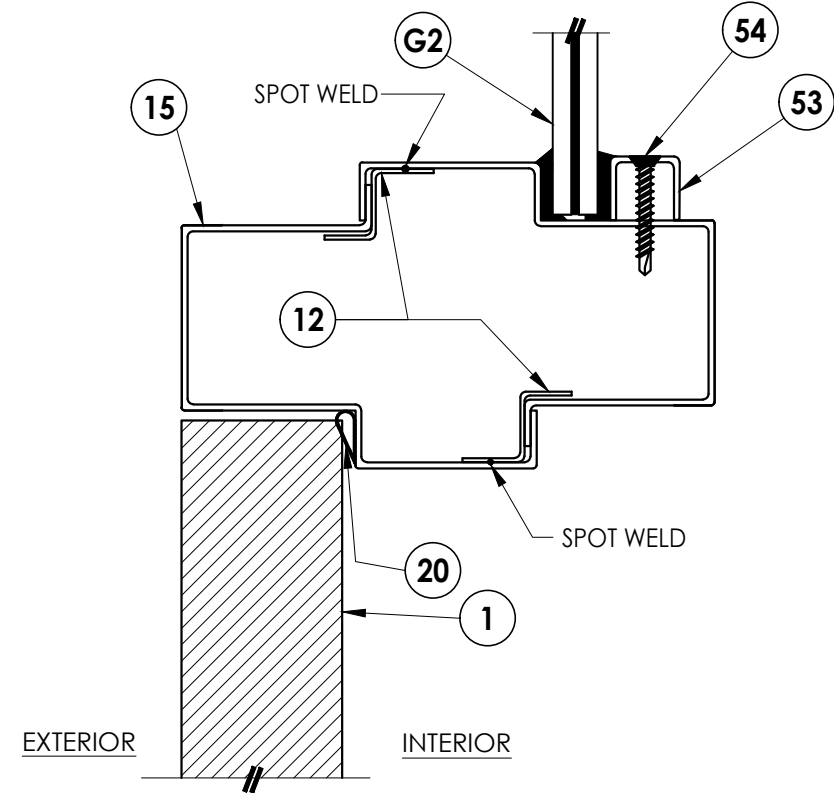
PRODUCT:		METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS

DOCUMENTS PREPARED BY:		Lyndon F. Schmidt P.E. No. 43409
BUILDING CONSULTANTS, INC.		P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813

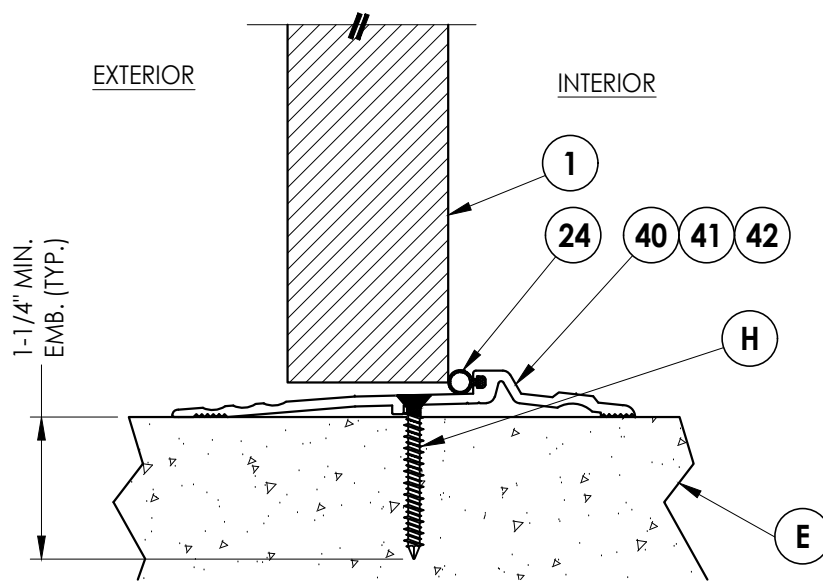
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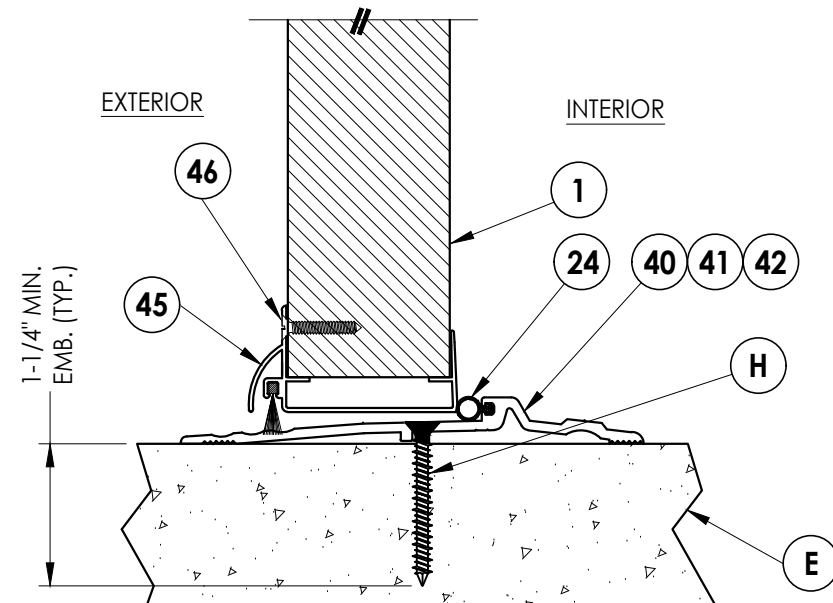
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4 VERTICAL CROSS SECTION



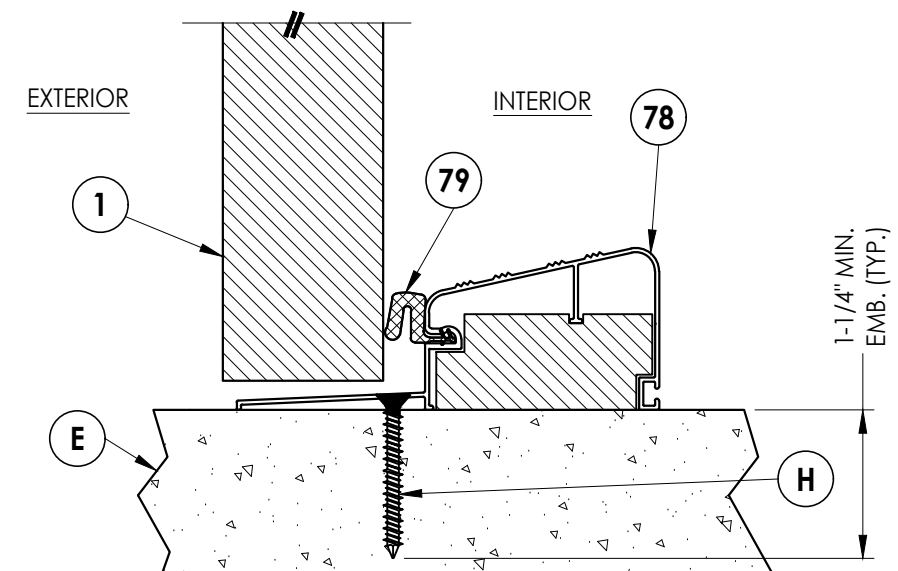
2
4 VERTICAL CROSS SECTION



3
4 VERTICAL CROSS SECTION
See general notes, sheet 1
for "HVHZ" water infiltration
requirements



4
4 VERTICAL CROSS SECTION
See general notes, sheet 1
for "HVHZ" water infiltration
requirements



5
4 VERTICAL CROSS SECTION
See general notes, sheet 1
for "HVHZ" water infiltration
requirements

NO.		DATE	REVISIONS			
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS		
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	DAC		
2	7/17/17	UPDATE TO 6TH ED. (2017)	FBC	LFS		
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK		
				BY		

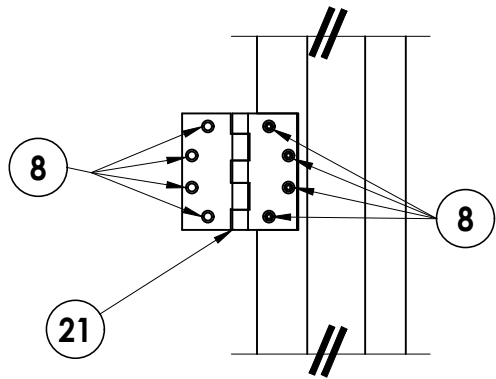
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SCALE: N.T.S.
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-12169.1
SHEET 4 OF 7

PRODUCT:
METAL MANUFACTURING
INDUSTRIES
"N" STEEL DOOR
PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

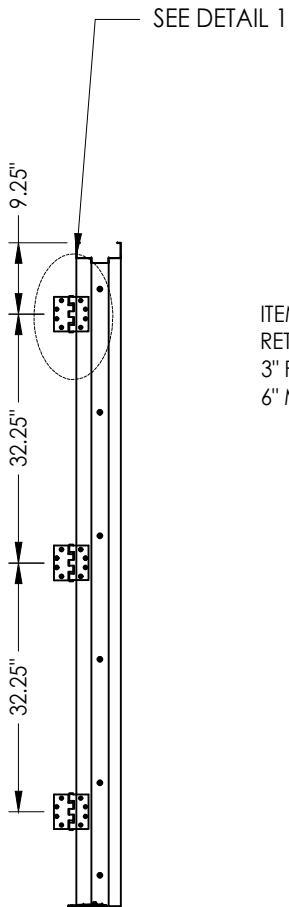
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

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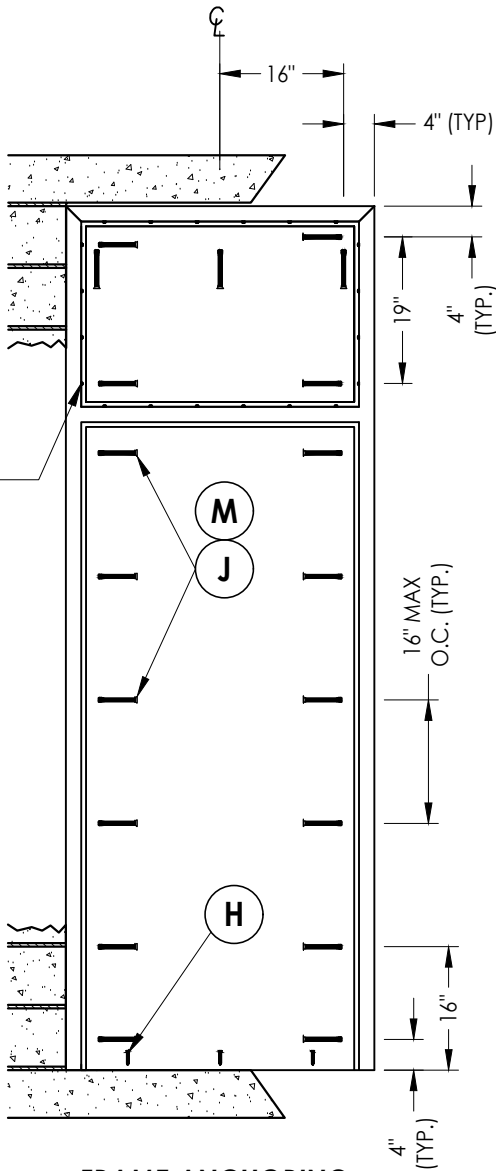


DETAIL 1

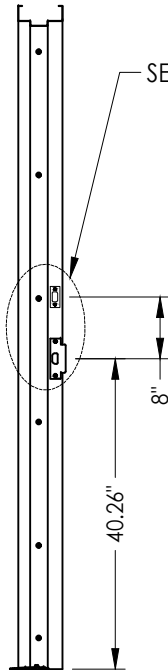


HINGE JAMB

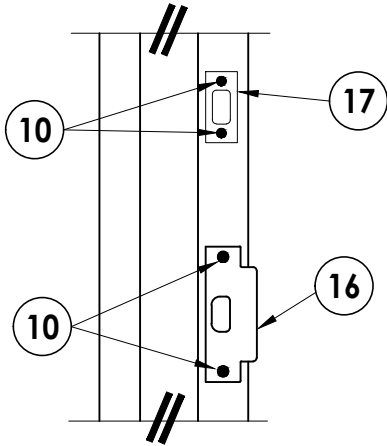
ITEM #54 GLASS STOP
RETAINING SCREW
3" FROM CORNER &
6" MAX O.C. (TYP.)



FRAME ANCHORING



STRIKE JAMB



DETAIL 2

CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. 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"
TAPPER	3/8"	1-1/2"	4-1/4"	6"

- Embedment may be through 1-1/4" face shell of hollow block.

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

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

PRODUCT:
METAL MANUFACTURING
INDUSTRIES
"N" STEEL DOOR

PART OR ASSEMBLY:
ANCHORING DETAILS

	5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
	4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
	3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	DAC
	2	7/17/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
	1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK
	NO.	DATE			BY
REVISIONS					

DATE: 2/19/09

SCALE: N.T.S.

DWG. BY: AL

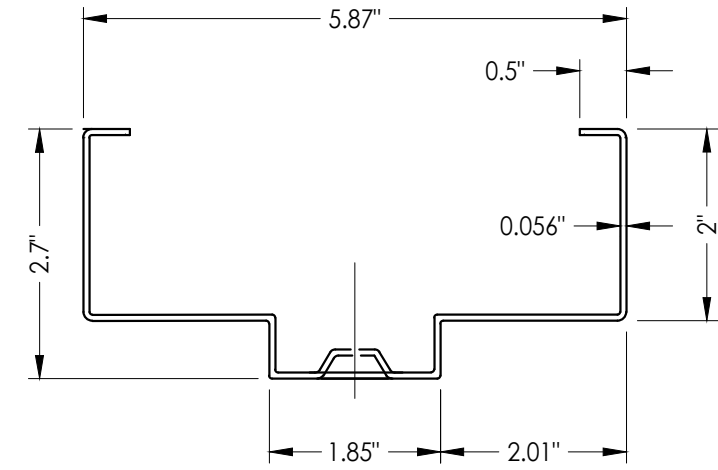
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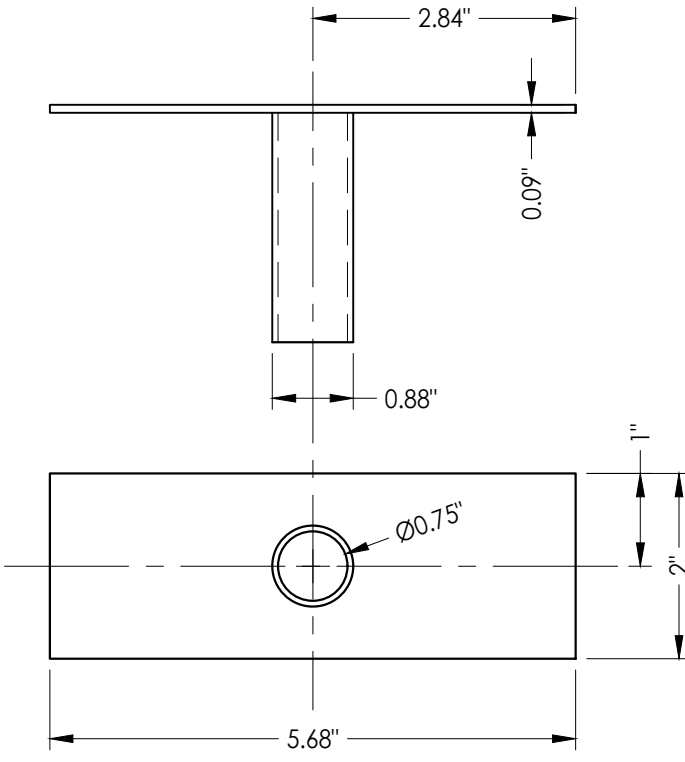
FL-12169.1

SHEET 5 OF 7

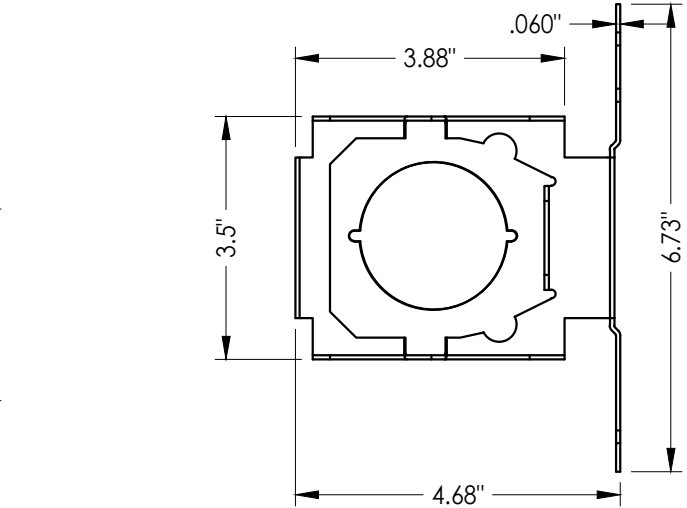
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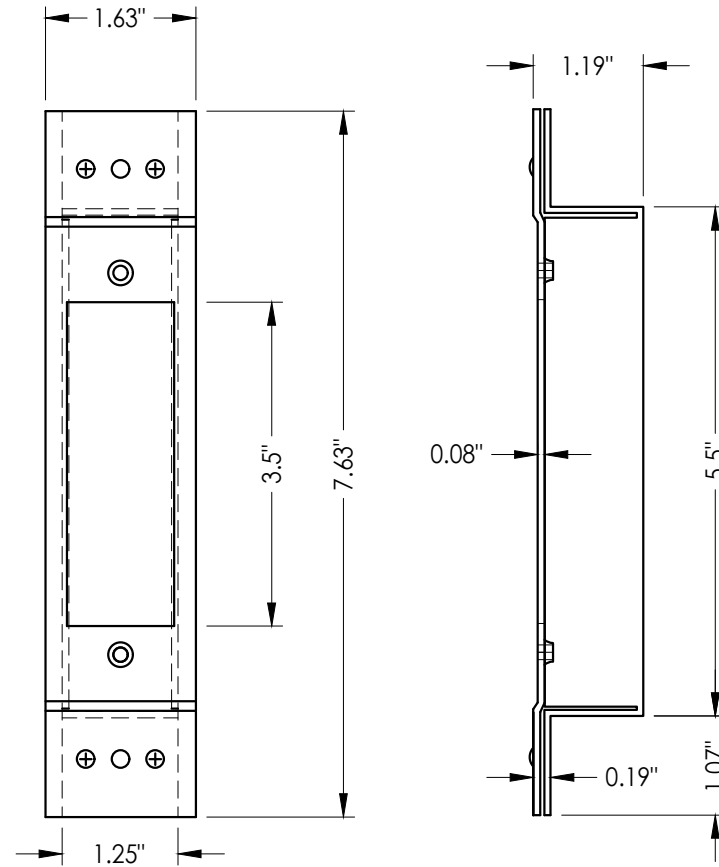
25 HOLLOW METAL FRAME



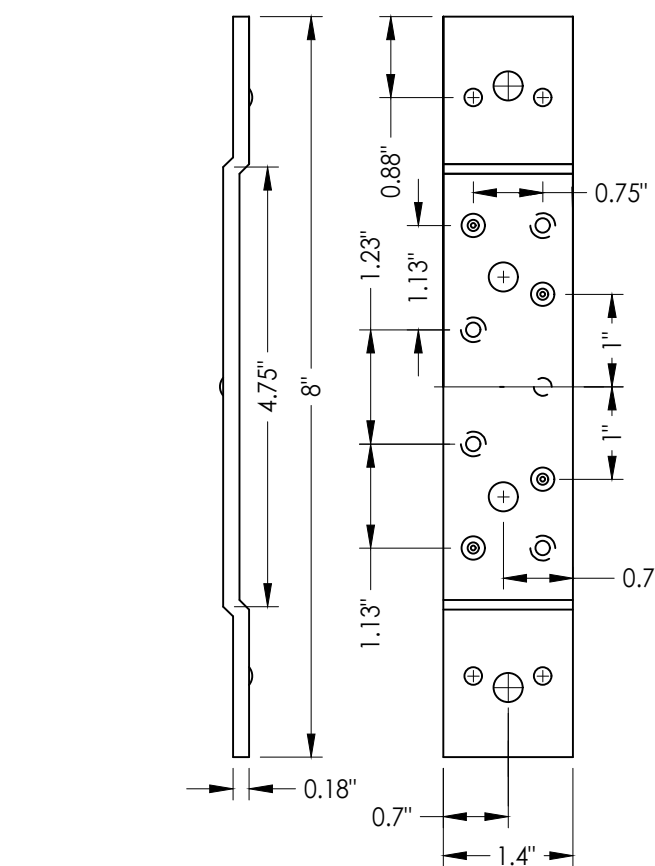
9 TUBE ANCHOR



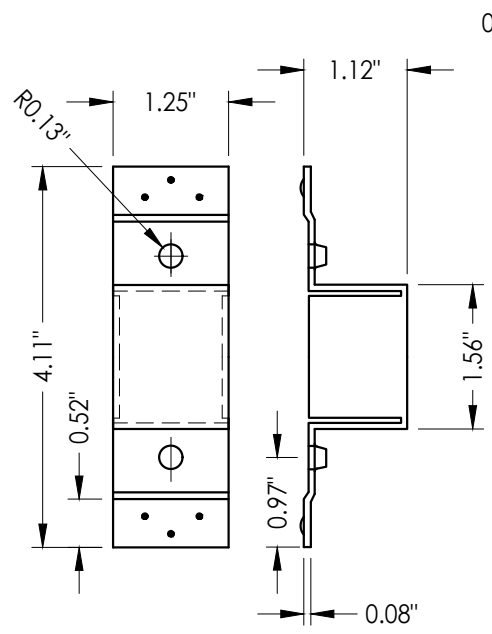
5 LOCK BOX REINFORCEMENT



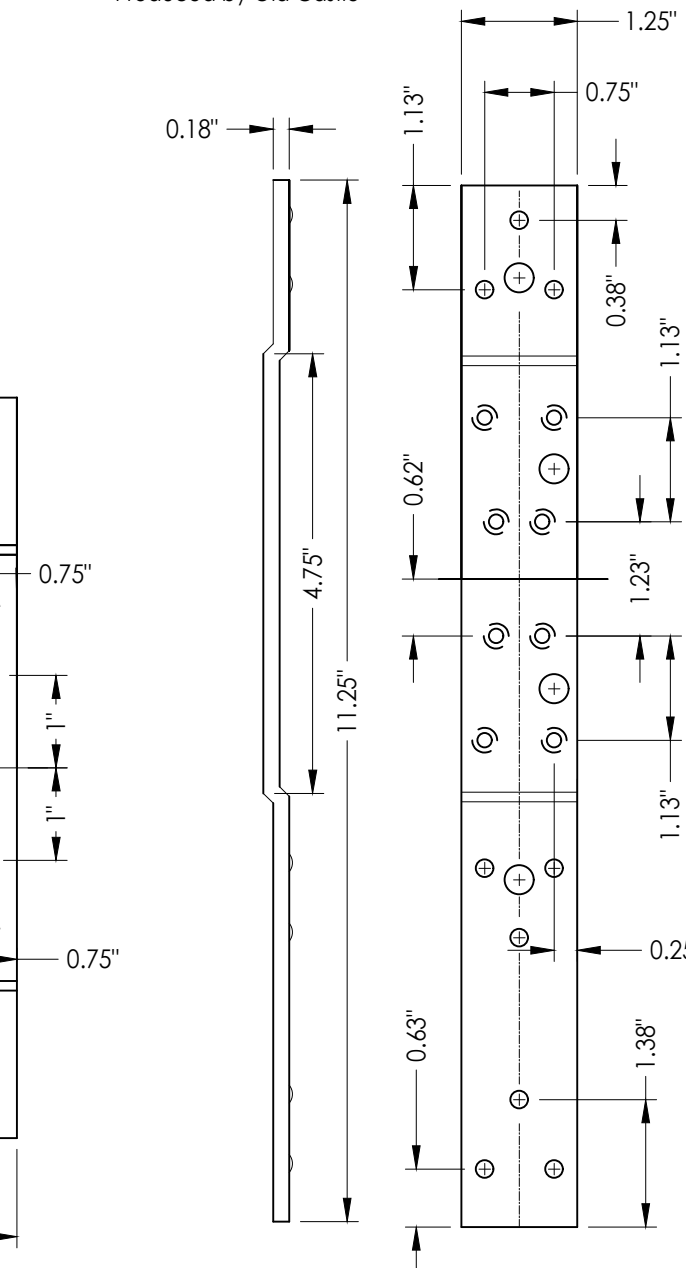
27 LATCH STRIKE REINFORCEMENT



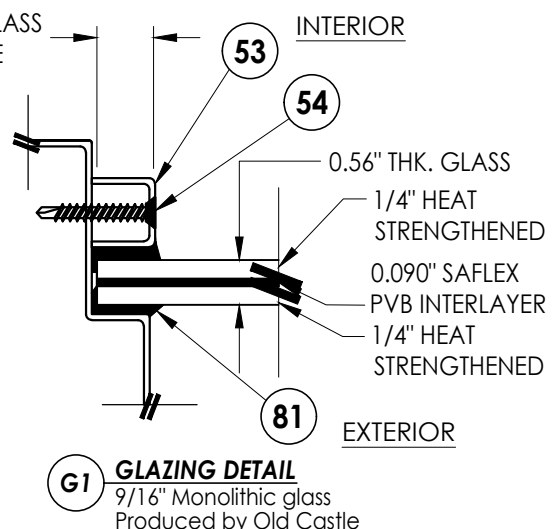
23 STANDARD (SHORT) DOOR HINGE
Reinforcement middle and bottom hinge



19 DEADBOLT STRIKE REINFORCEMENT



22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge



G1 GLAZING DETAIL
9/16" Monolithic glass
Produced by Old Castle

DATE:		2/19/09
SCALE:		N.T.S.
DWG. BY:		AL
CHK. BY:		LFS
DRAWING NO.:		FL-12169.1
SHEET		6 OF 7

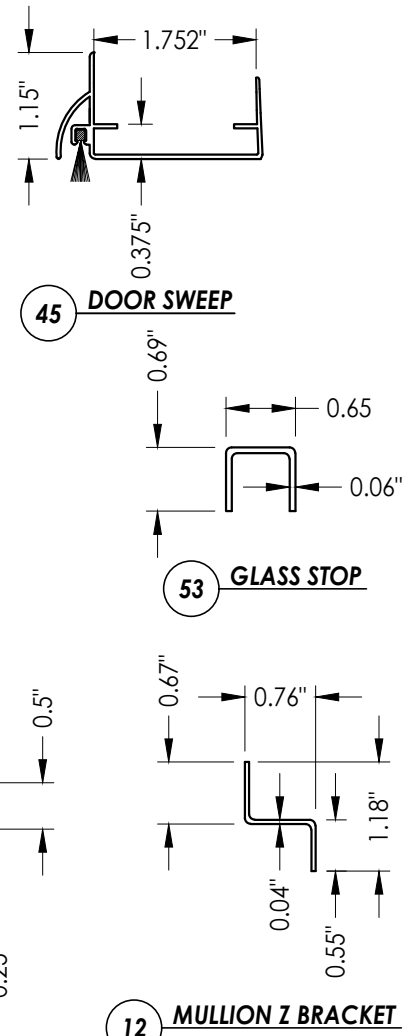
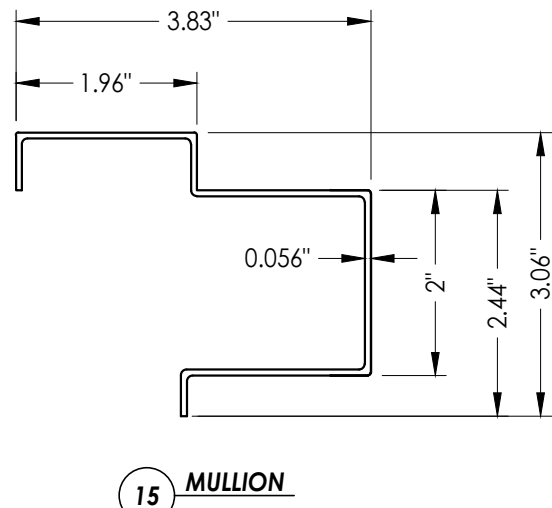
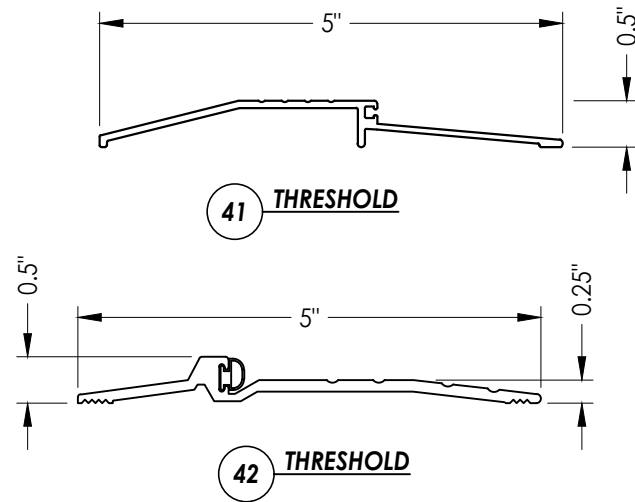
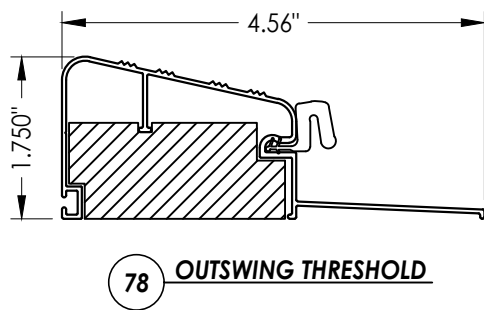
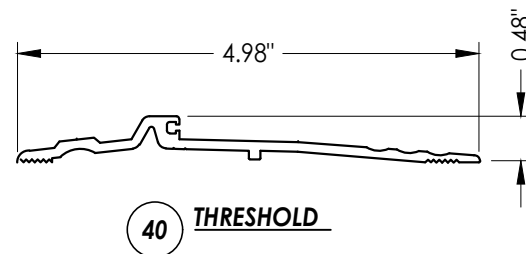
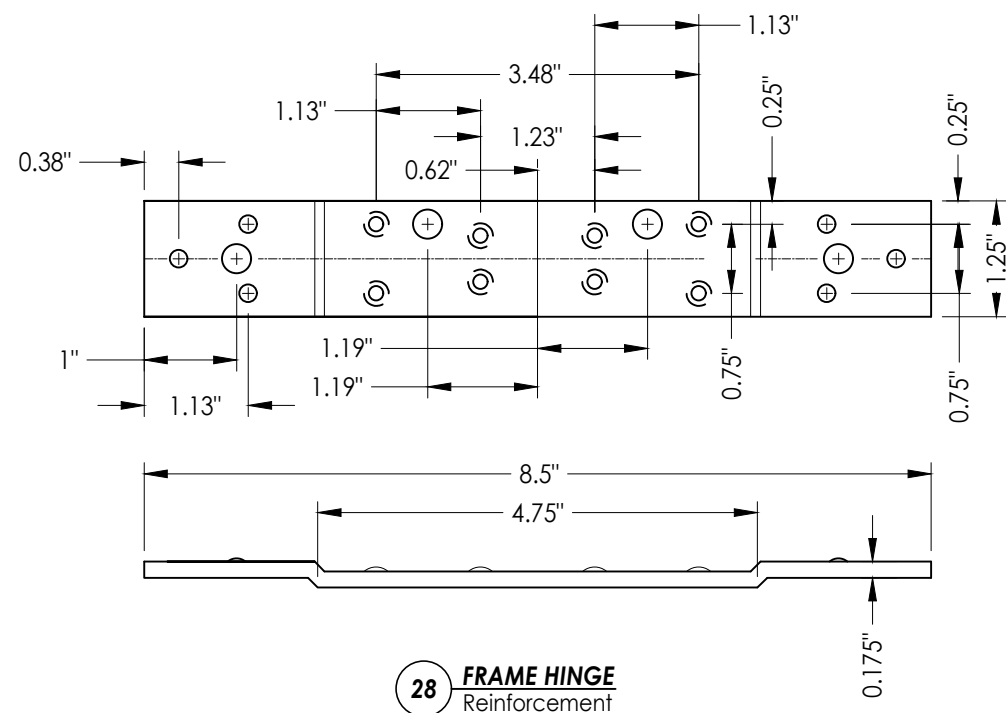
PRODUCT:		METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR
PART OR ASSEMBLY:		GLAZING DETAIL AND COMPONENTS

REVISIONS	
NO.	DATE
5	7/01/26
4	7/11/23
3	7/30/20
2	7/17/17
1	10/14/16

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

BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL	25	FRAME 5-3/4" X 2" MIN. (0.056" THK)	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL	27	LATCH STRIKE REINFORCEMENT	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL	28	FRAME HINGE REINFORCEMENT	STEEL
1	"N" OPAQUE STEEL DOOR PANEL	-	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
2	DOOR SKIN (0.042" THK. STEEL, Fy = 40,300 PSI MIN.)	STEEL	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	42	OUTSWING THRESHOLD PEMKO #2005V	ALUMINUM
4	DOOR TOP & BOTTOM CLOSER	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
5	LOCK BOX REINFORCEMENT	STEEL	46	#6 X 3/4" PHILIPS HEAD SMS	STEEL
6	CLOSER REINFORCEMENT	STEEL	53	U-CHANNEL GLASS STOP	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL	54	#8 X 1.25" PFH SHEET METAL SCREW	STEEL
9	TUBE ANCHOR	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
12	MULLION Z BRACKET	STEEL	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
15	MULLION MIN. (0.056" THK)	STEEL	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
16	ANSI LATCH STRIKE	STEEL	78	OUTSWING THRESHOLD QOSH BY DLP	ALUM/WOOD
17	DEADBOLT STRIKE	STEEL	79	WEATHER-STRIP	FOAM
19	DEADBOLT STRIKE REINFORCEMENT	STEEL	81	DOW 995 STRUCTURAL SILICONE	SILICONE
20	WEATHER-STRIP	NEOPRENE			
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL			
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL			

[illegible]