

c:\users\msun\building drops, inc\building drops landing - common\projects\vision hollow metal limited\fbc-24-0157.2 - fbc submittal - hollow metal doors\dwgs\vhm004.dwg 2/25/2025 3:23 PM

VISION HOLLOW METAL LIMITED

LS20/LS2075 STEEL DOOR

(HVHZ) (IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) **INCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- ASTM E283-19

• ASTM E330-14(21)

• ASTM E1886-19

• ASTM E1996-20

• TAS 201-94

• TAS 202-94

• TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X 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.
3. 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.
4. 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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. FRAME AND DOOR SKIN MATERIAL: STEEL.
7. ALL STRUCTURAL MATERIALS & DISSIMILAR 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.

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9	BILL OF MATERIALS AND COMPONENTS

FRAME SIZE	DESIGN PRESSURE	IMPACT MISSILE RATING
SEE SHEET 2		LARGE & SMALL MISSILE IMPACT



400 ZENWAY BLVD. UNIT #1
WOODBIDGE, ON L4H 3H9, CANADA
PH: (905) 851-1121

TITLE:

LS20/LS2075 STEEL DOOR
(HVHZ) (IMPACT)
GENERAL NOTES &
TABLE OF CONTENTS

PREPARED BY:



BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
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PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

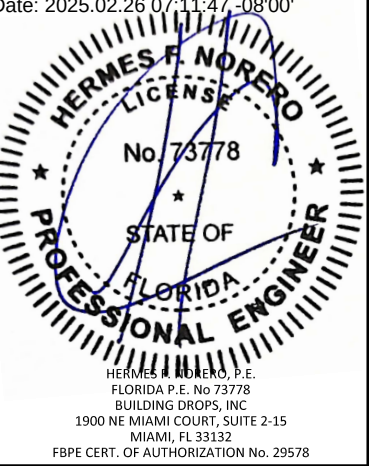
REMARKS

BY

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Digitally signed by Hermes F. Norero, P.E
Reason: I am approving this document
Date: 2025.02.26 07:11:47 -08'00'



HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL47318

DATE:

01.27.2025

DWG. BY:

CHK. BY:

MS

HFN

SCALE:

NTS

DWG. #:

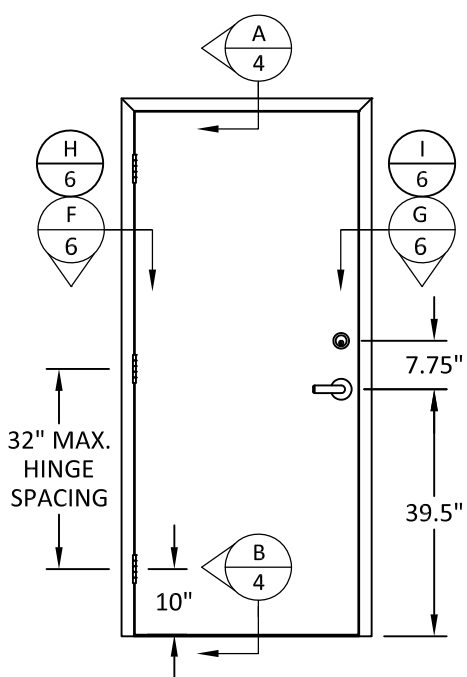
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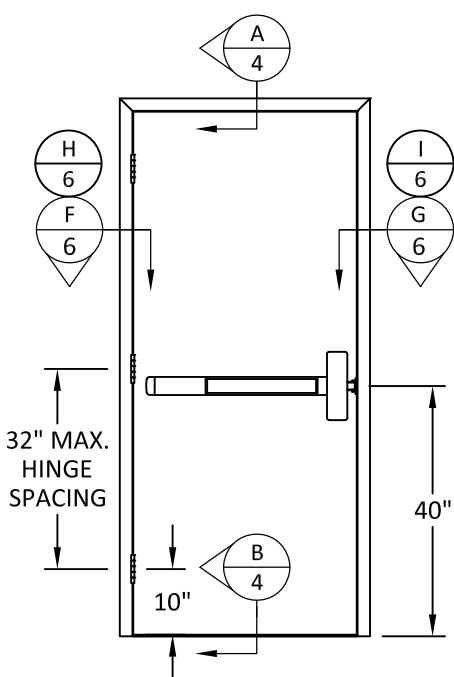
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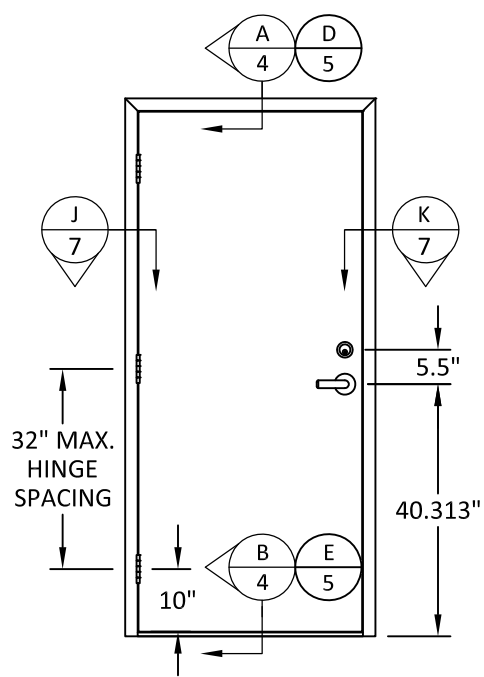
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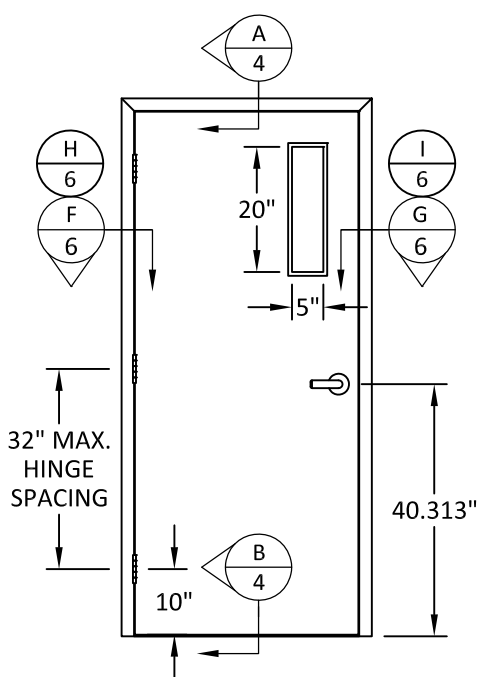
ELEVATION #1
OUTSWING SINGLE DOOR



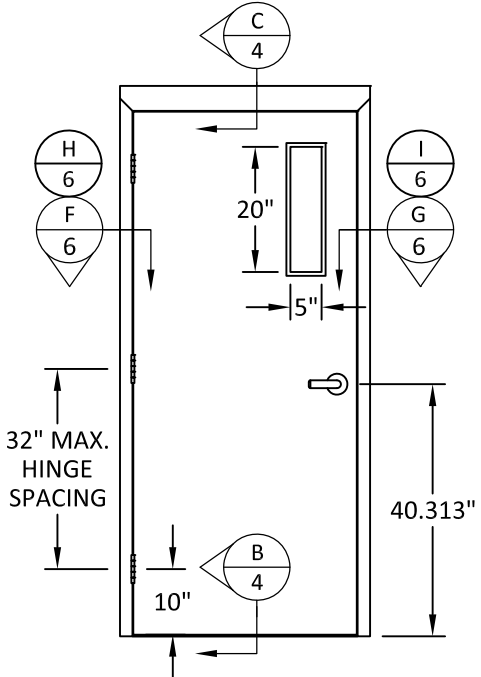
ELEVATION #2
OUTSWING SINGLE DOOR



ELEVATION #3
INSWING/OUTSWING SINGLE DOOR



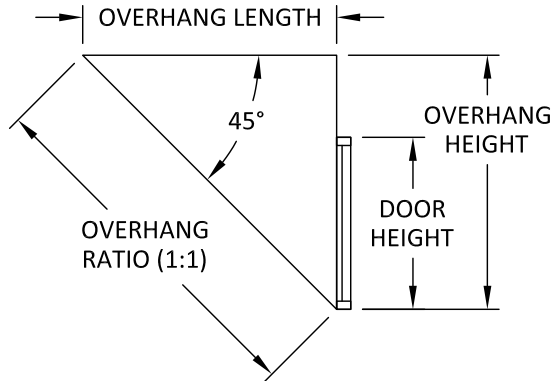
ELEVATION #4
OUTSWING SINGLE DOOR



ELEVATION #5
OUTSWING SINGLE DOOR
W/ 4" HEADER

DOOR SCHEDULE						
ELEVATION NO.	CONFIGURATION	MAX. FRAME DIMENSIONS	MAX. LEAF DIMENSIONS	WATER INFILTRATION RESISTANCE*	HARDWARE	DESIGN PRESSURE
1	SINGLE OUTSWING	40" X 86"	35.75" X 83.125"	YES	SCHLAGE AL53PD CYLINDRICAL LOCK W/ B660P DEADBOLT	+/- 75 PSF
2	SINGLE OUTSWING	40" X 86"	35.75" X 83.125"	YES	DESIGN HARDWARE 2000 SERIES RIM PANIC EXIT DEVICE	+/- 75 PSF
3	SINGLE INSWING	40" X 86"	35.75" X 83.125"	NO	HAGER 2500 SERIES CYLINDRICAL LOCK (GRADE 2) W/ HAGER 3200 SERIES DEADBOLT (GRADE 2), OR SCHLAGE B60N DEADBOLT (GRADE 1)	+50/-60 PSF
	SINGLE OUTSWING	40" X 86"	35.75" X 83.125"	YES		+/- 55 PSF
4	SINGLE OUTSWING W/ OR W/O VISION LITE	40" X 86"	35.75" X 83.125"	YES	DOREX F SERIES CYLINDRICAL LOCK (FH53, GRADE 2) (OPTIONAL DEADBOLT, HAGER 3200 SERIES OR SCHLAGE B60N)	+/- 58 PSF
					DOREX T2 SERIES CYLINDRICAL LOCK (GRADE 2) (OPTIONAL DEADBOLT, HAGER 3200 SERIES OR SCHLAGE B60N)	+/- 65 PSF
5	SINGLE OUTSWING W/ OR W/O VISION LITE	40" X 88" (4" HEADER)	35.75" X 83.125"	YES	DOREX F SERIES CYLINDRICAL LOCK (FH53, GRADE 2) (OPTIONAL DEADBOLT, HAGER 3200 SERIES OR SCHLAGE B60N)	+/- 58 PSF
					DOREX T2 SERIES CYLINDRICAL LOCK (GRADE 2) (OPTIONAL DEADBOLT, HAGER 3200 SERIES OR SCHLAGE B60N)	+/- 65 PSF

*NOTE: FOR ELEVATION THAT HAS NOT BEEN RATED FOR WATER INFILTRATION. IF AUTHORITY HAVING JURISDICTION REQUIRES THAT PRODUCT MEETS THIS REQUIREMENT, PRODUCT SHALL BE USED WHEN INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥1.0





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(HVHZ) (IMPACT)
ELEVATIONS & DOOR SCHEDULE

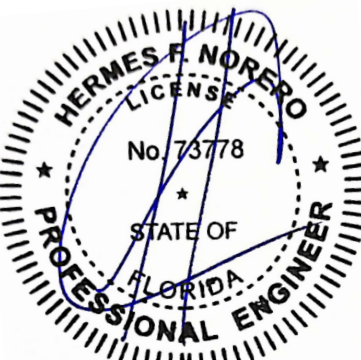
PREPARED BY:
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BUILDING DROPS

REMARKS	BY	DATE

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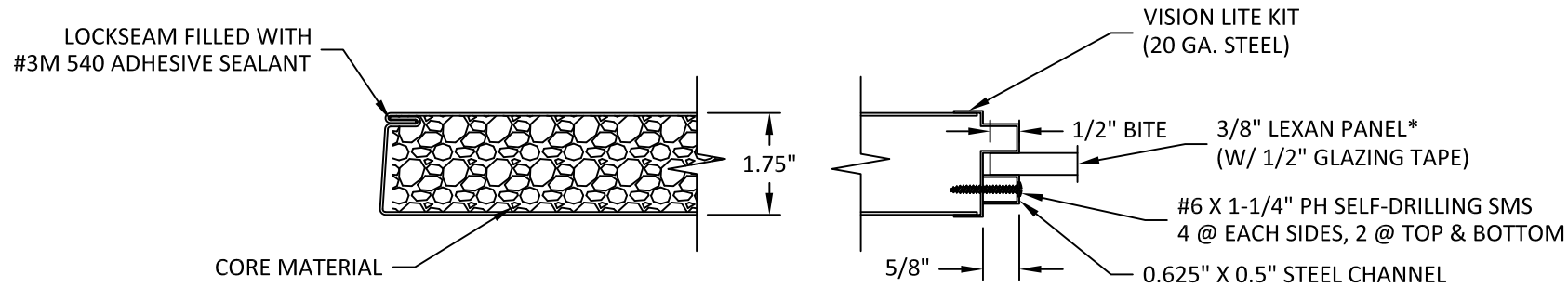
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VHM004

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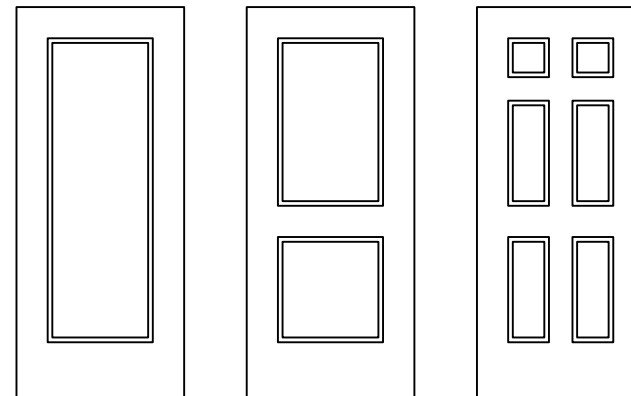
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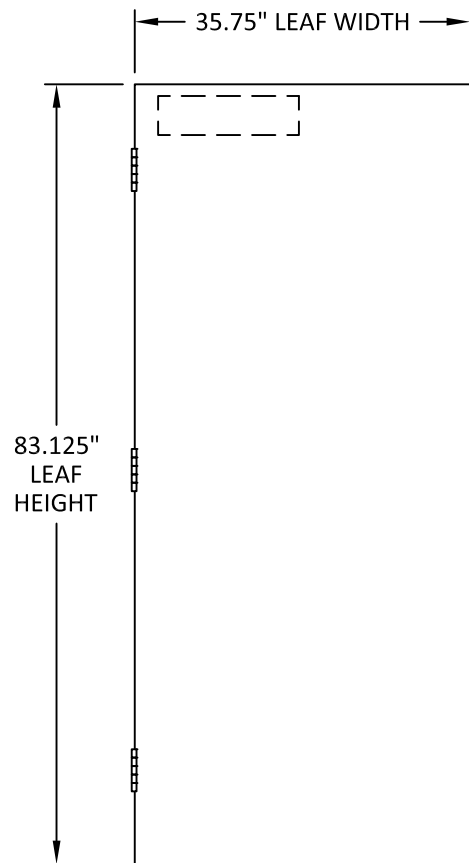


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3 HORIZONTAL SECTION

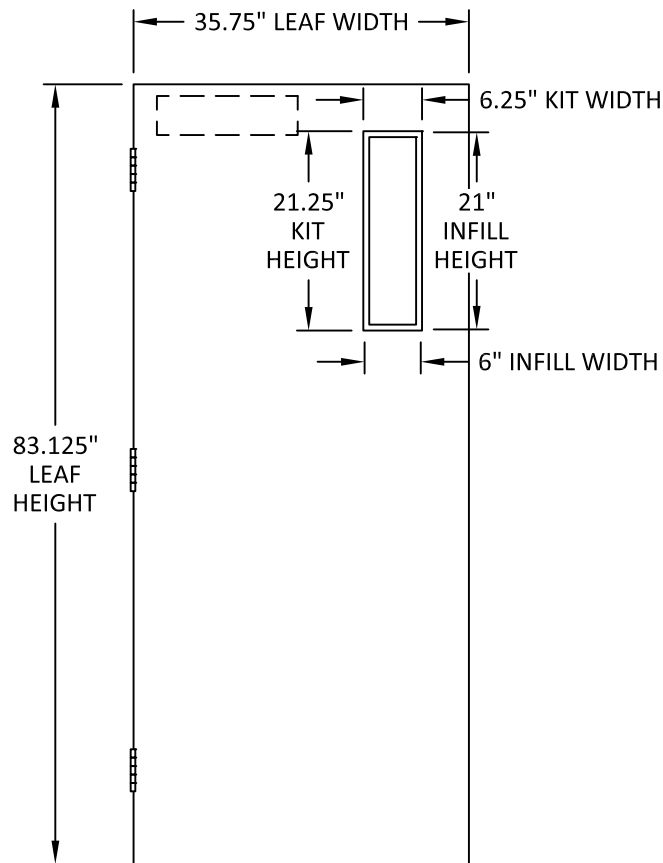
* FOR ALTERNATE INFILL OPTION, SEE SEPARATE APPROVAL FOR DETAILS.



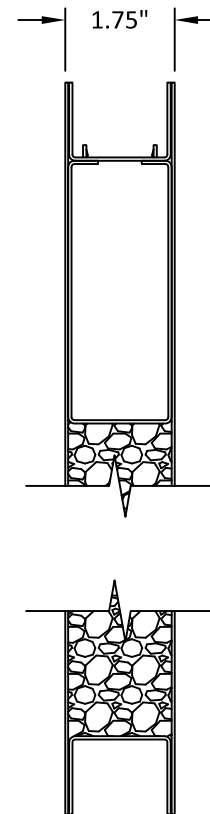
OPTIONAL EMBOSSEMENTS



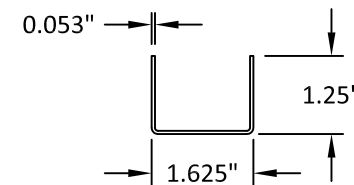
7'-0" DOOR LEAF
ELEVATIONS # 1, 2, & 3



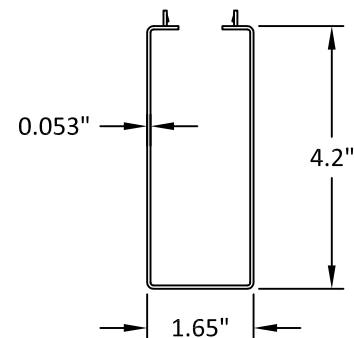
7'-0" DOOR LEAF
ELEVATIONS # 4 & 5



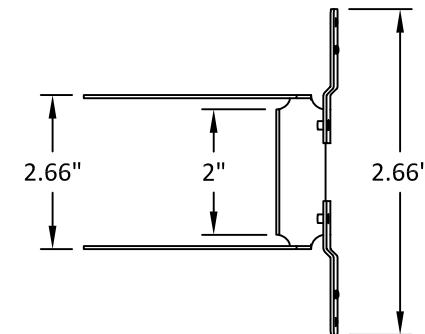
2
3 VERTICAL SECTION



3
3 END CHANNEL
16 GA. GALV. STEEL



4
3 CLOSER BOX
16 GA. GALV. STEEL



5
3 CYLINDRICAL LOCK REINF.
18 GA. GALV. STEEL

STEEL DOOR SKIN: 20 GA. (MIN. 0.032" THK.) GALV. STEEL
CORE MATERIAL: HONEYCOMB OR EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)


VISION
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WOODBIDGE, ON L4H 3H9, CANADA
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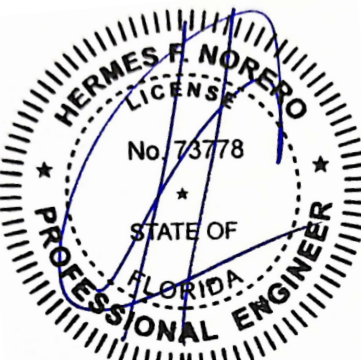
TITLE: LS20/LS2075 STEEL DOOR (HVHZ) (IMPACT)
DOOR LEAF DETAILS

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BUILDING DROPS

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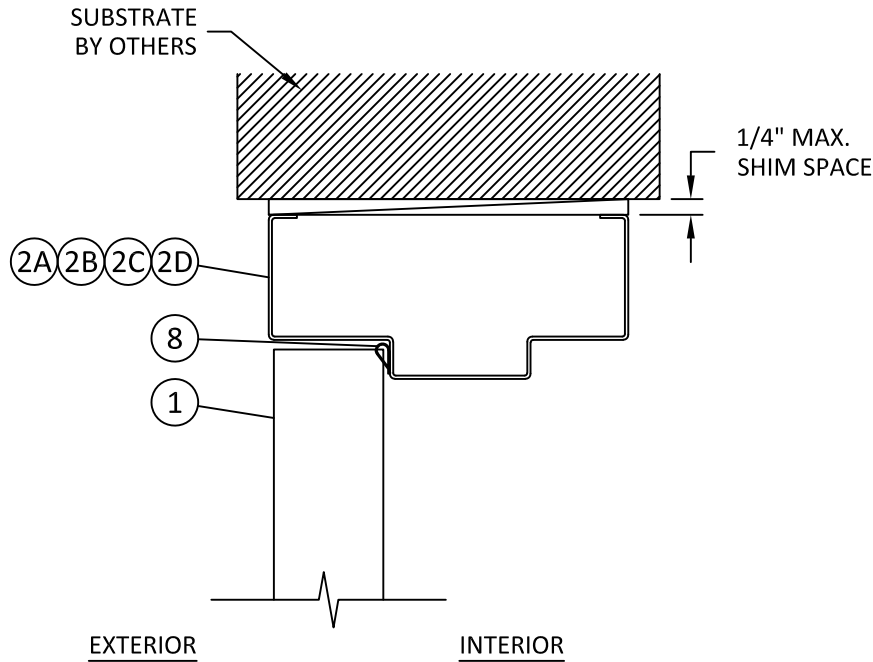
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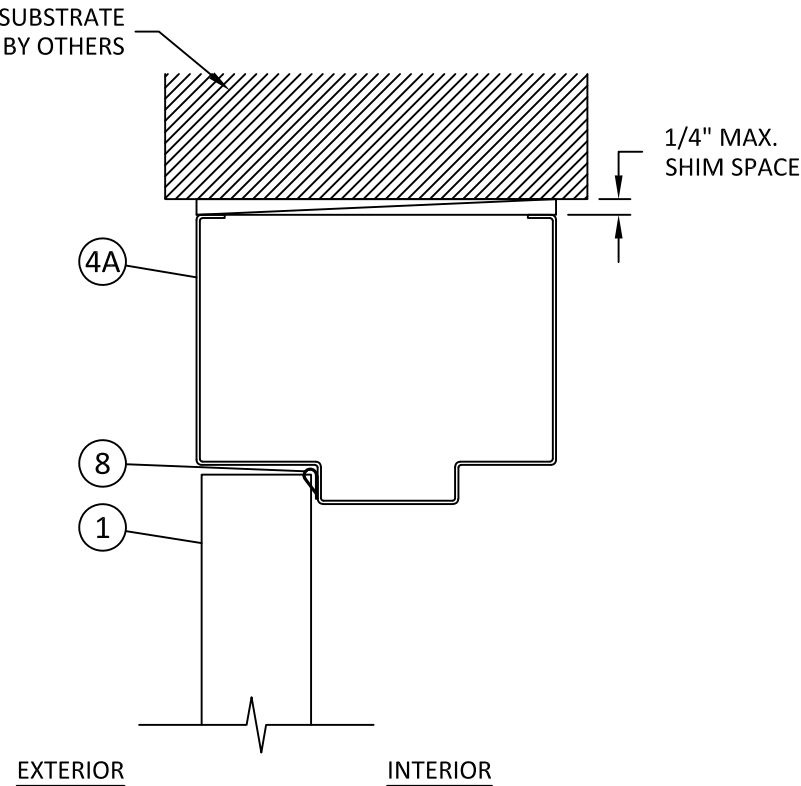
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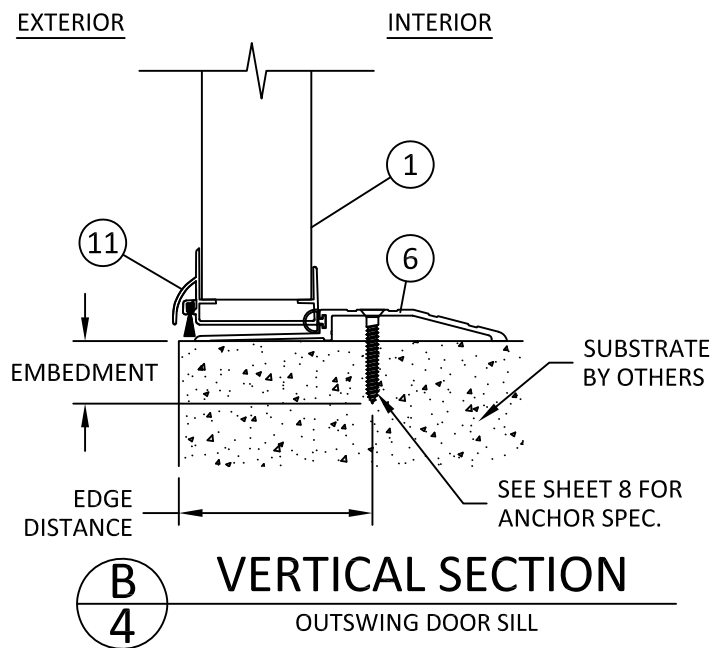
3



A
4 VERTICAL SECTION
OUTSWING DOOR HEAD



C
4 VERTICAL SECTION
OUTSWING DOOR HEAD
4" HEADER



B
4 VERTICAL SECTION
OUTSWING DOOR SILL


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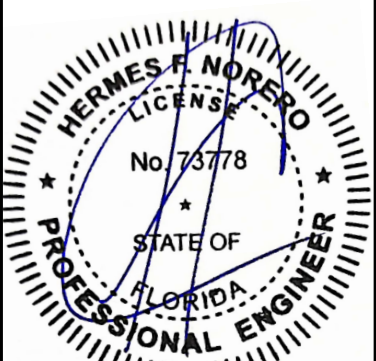
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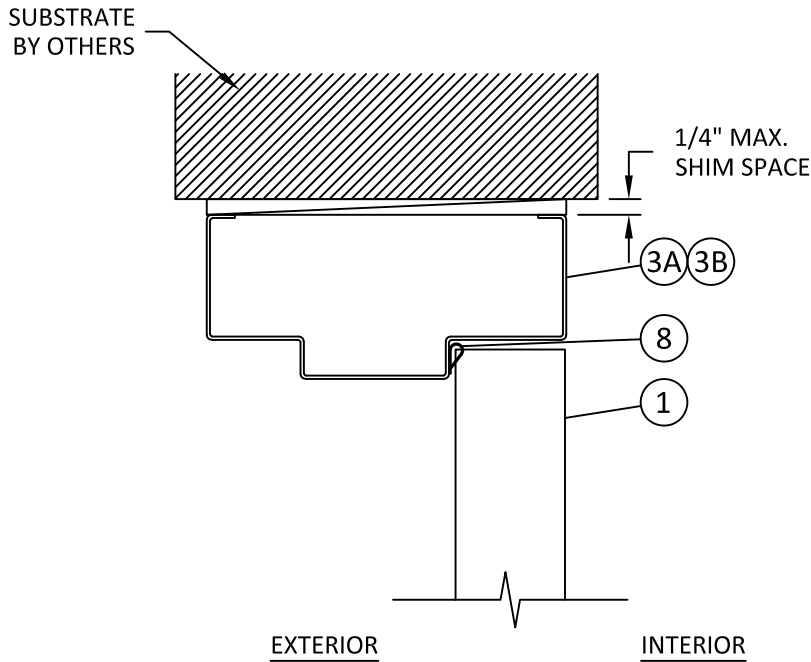
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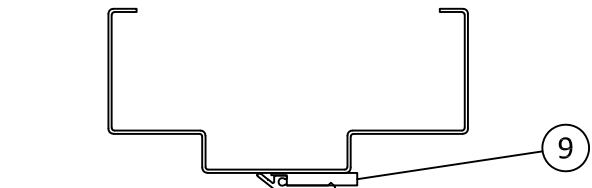
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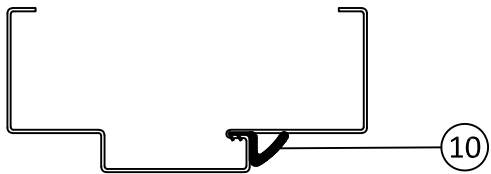
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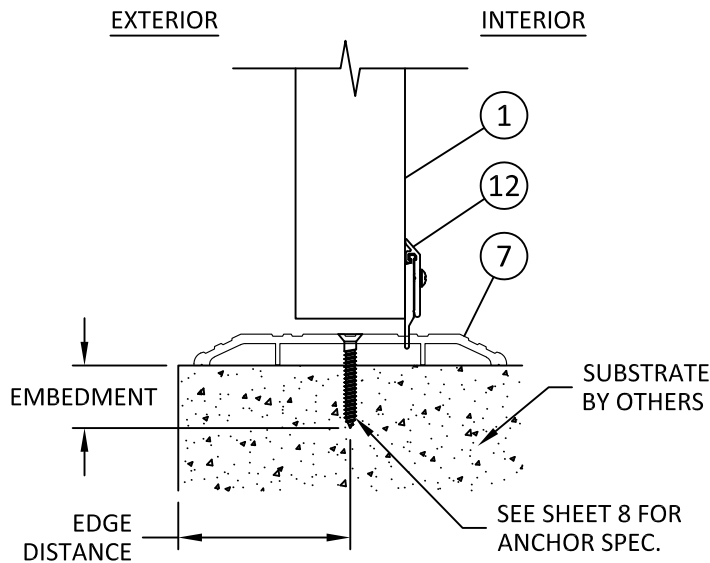
D
5 **VERTICAL SECTION**
INSWING DOOR HEAD



ALTERNATE WEATHER STRIP



ALTERNATE WEATHER STRIP



E
5 **VERTICAL SECTION**
INSWING DOOR SILL



400 ZENWAY BLVD. UNIT #1
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TITLE:

LS20/LS2075 STEEL DOOR
(HVHZ) (IMPACT)

VERTICAL SECTIONS

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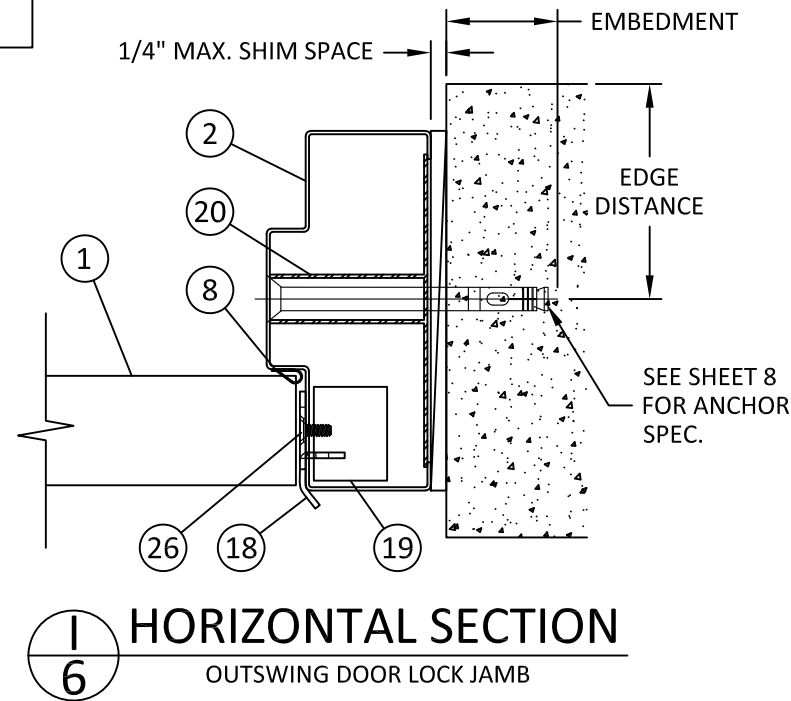
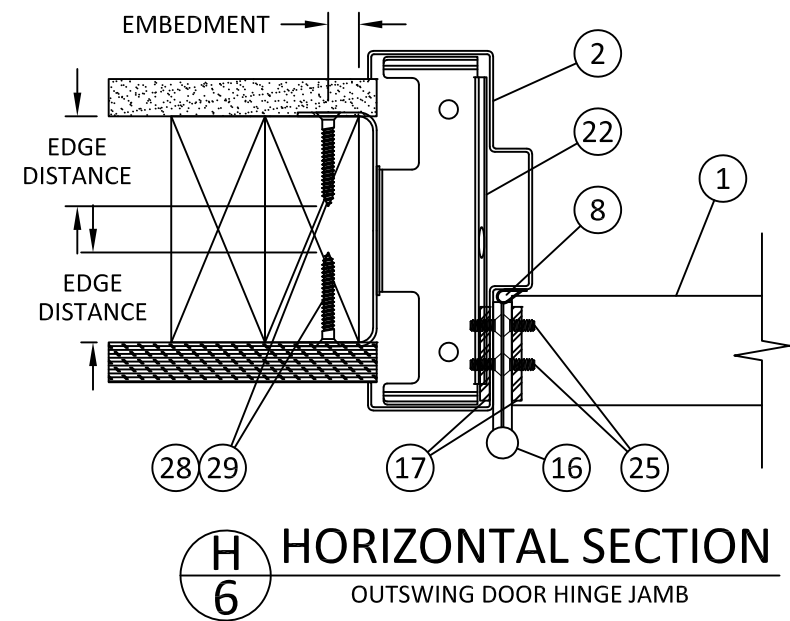
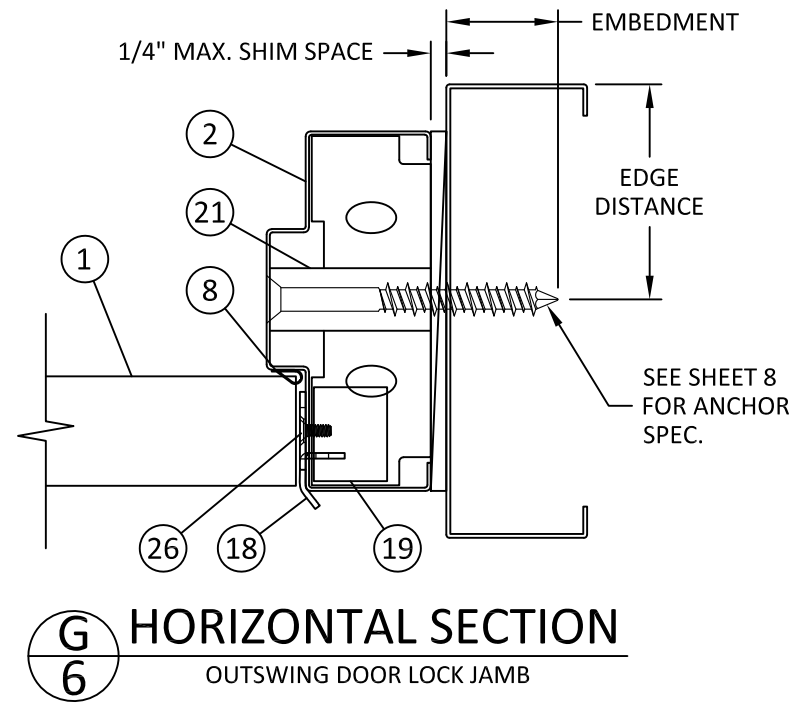
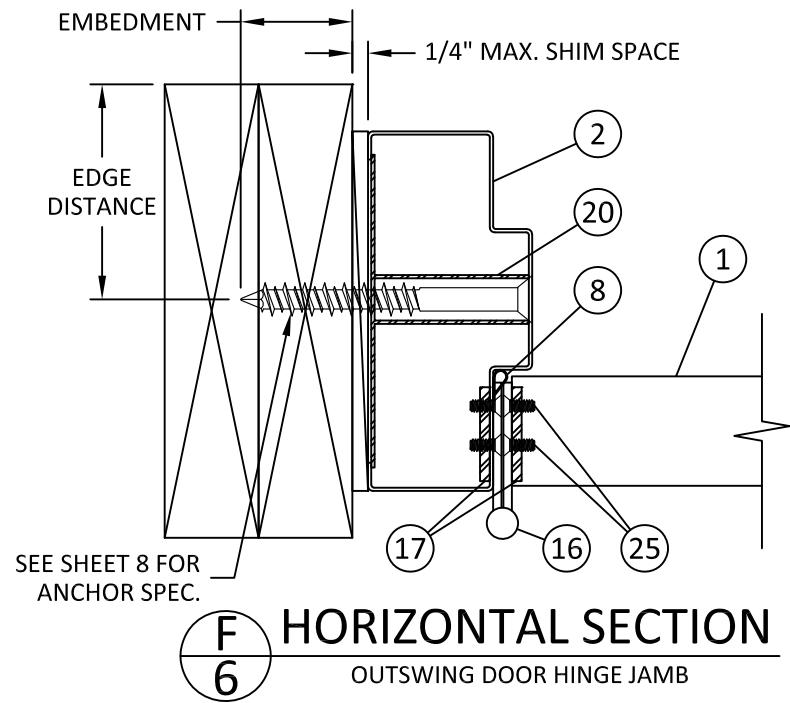
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VHM004

SHEET:

5

OF 9



NOTE:
1. INSTALLATION SHOWN ON THIS SHEET ALSO APPLIES TO INSWING DETAILS.
2. STUD STRAP ANCHOR (H/6) IS LIMITED TO +65/-75 PSF AND NOT QUALIFIED FOR USE IN HVHZ.



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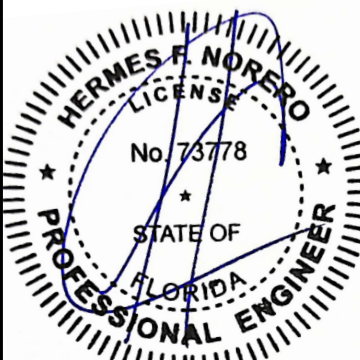
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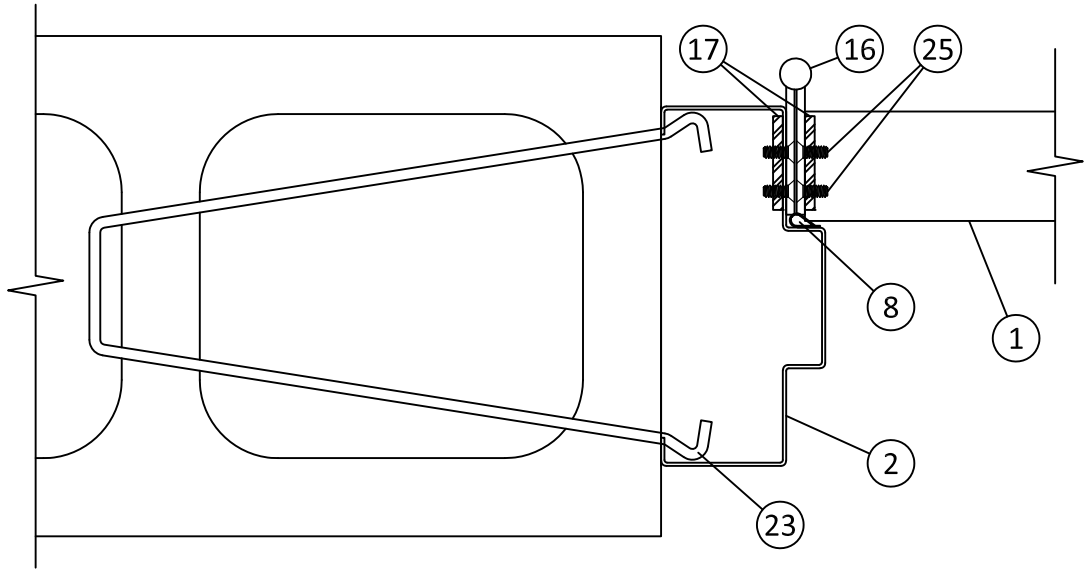
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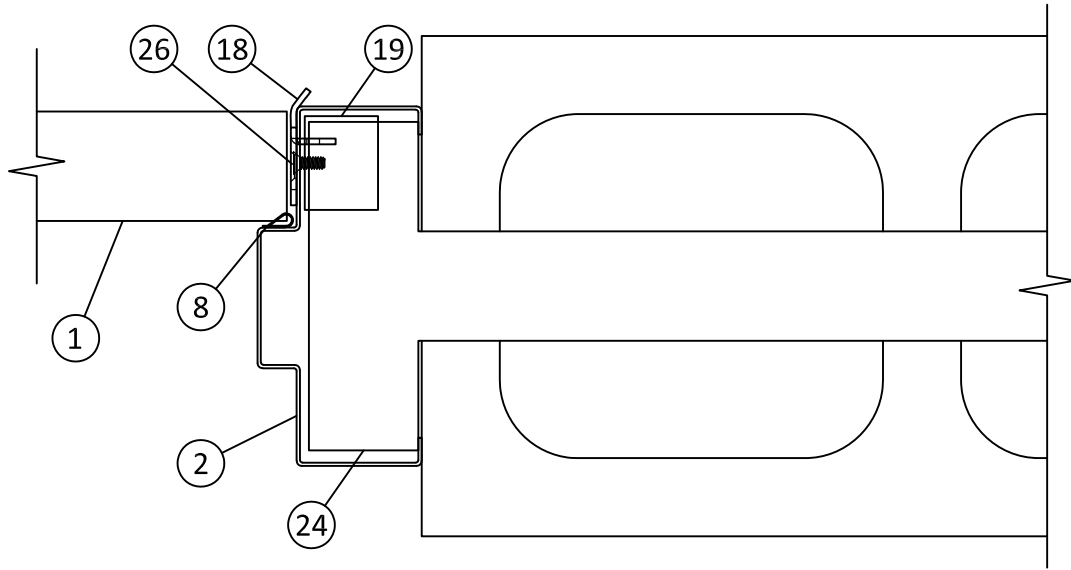
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J
7 HORIZONTAL SECTION
INSWING DOOR HINGE JAMB



K
7 HORIZONTAL SECTION
INSWING DOOR LOCK JAMB

- NOTE:
1. INSTALLATION SHOWN ON THIS SHEET ALSO APPLIES TO OUTSWING DETAILS.
 2. T ANCHOR (K/7) IS LIMITED TO DP65.



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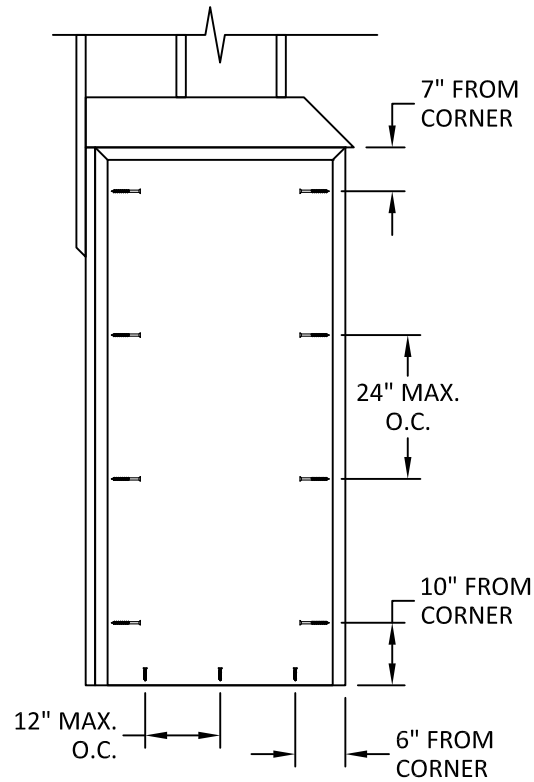
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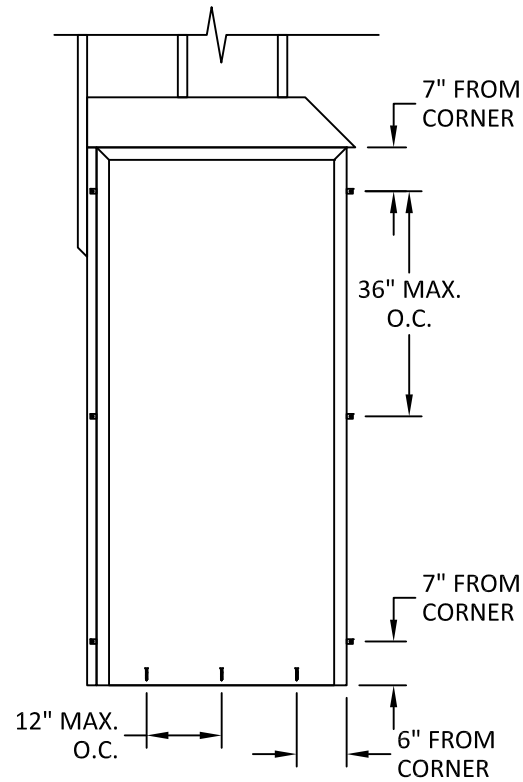
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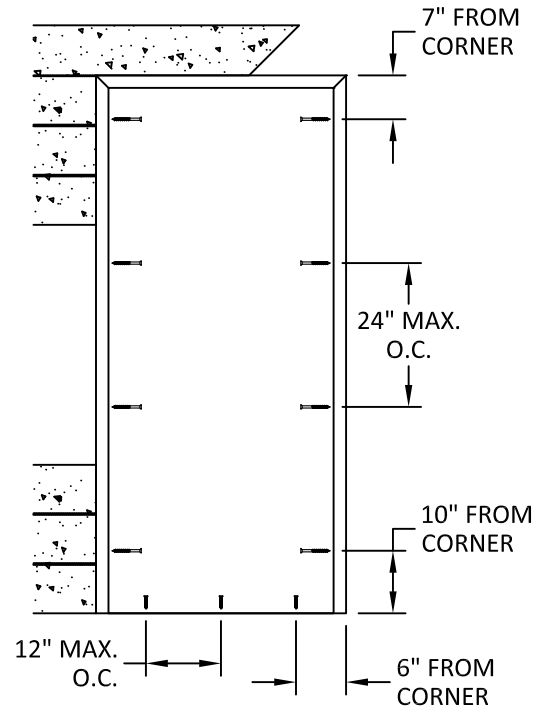
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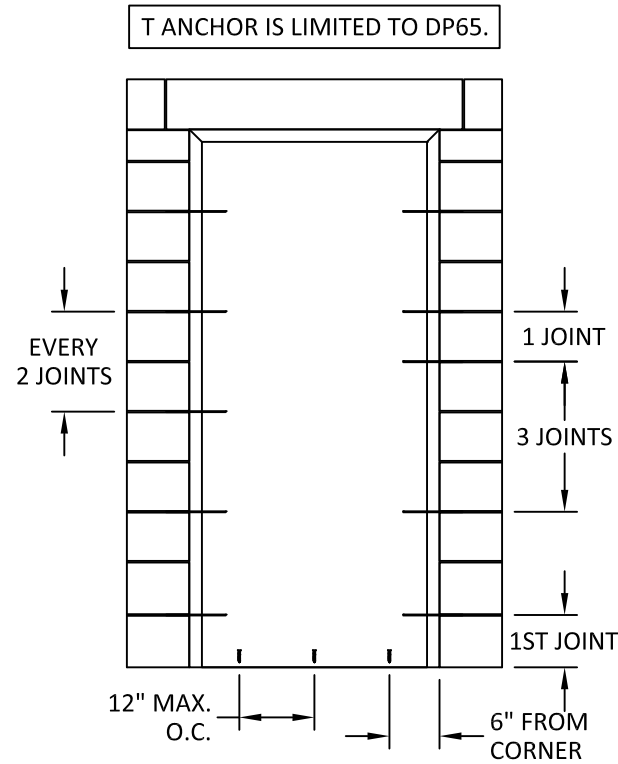
ANCHOR LAYOUT
WOOD/METAL STUDS
TUBE/BUTTERFLY ANCHOR



ANCHOR LAYOUT
WOOD/METAL STUDS
STUD STRAP ANCHOR



ANCHOR LAYOUT
CONCRETE SUBSTRATE
TUBE/BUTTERFLY ANCHOR



ANCHOR LAYOUT
CONCRETE SUBSTRATE
WIRE/T ANCHOR

STUD STRAP ANCHOR IS LIMITED
TO +65/-75 PSF AND NOT
QUALIFIED FOR USE IN HVHZ.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (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 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD OR BETTER.
- 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.
- 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.
- 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.

ANCHOR SCHEDULE				
LOCATION	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
HEAD/ JAMB	WOOD: MIN. S.G. = 0.55	3/8" LAG SCREW	2-1/8"	1"
	STEEL: MIN. 16 GA. MIN. Fy = 33 ksi	3/8" GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	3/4"
	ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			
	CONCRETE: MIN. f'c = 3000 psi	3/8" ITW LDT	1-1/2"	2"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	WIRE ANCHOR, OR T-ANCHOR	-	-
SILL	WOOD: MIN. S.G. = 0.55	#14 WOOD SCREW	1-1/2"	1"
	STEEL: MIN. 16 GA. MIN. Fy = 33 ksi	1/4" GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
	ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			
	CONCRETE: MIN. f'c = 3000 psi	1/4" ITW TAPCON	1-1/2"	1-1/2"
MULLION BASE PLATE	CONCRETE: MIN. f'c = 3000 psi	1/4" DEWALT ULTRACON+	1-3/4"	2-1/2"

400 ZENWAY BLVD. UNIT #1
WOODBIDGE, ON L4H 3H9, CANADA
PH: (905) 851-1121

TITLE:
LS20/LS2075 STEEL DOOR
(HVHZ) (IMPACT)
ANCHOR LAYOUTS &
INSTALLATION NOTES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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.

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL47318

DATE:
01.27.2025

DWG. BY:
MS

CHK. BY:
HFN

SCALE:
NTS

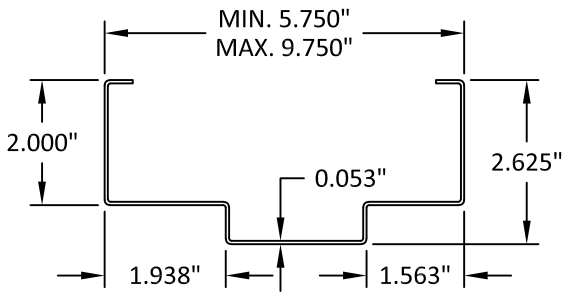
DWG. #:
VHM004

SHEET:

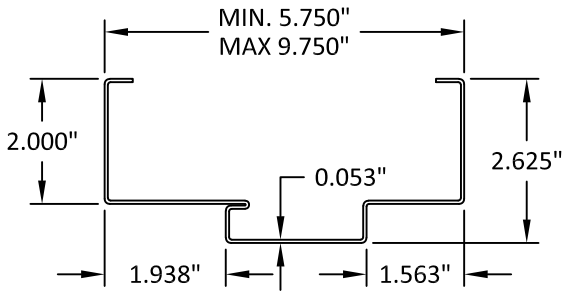
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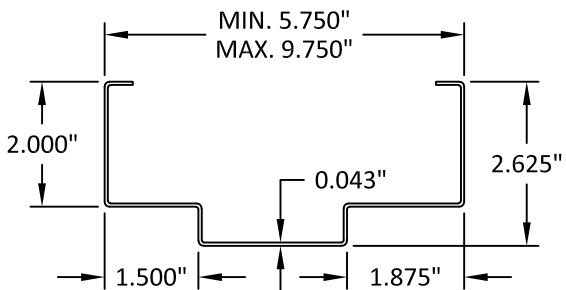
BILL OF MATERIALS		
ITEM#	DESCRIPTION	MATERIAL
1	STEEL DOOR PANEL	-
2A	HOLLOW METAL FRAME (OUTSWING, 16 GA., DP75)	STEEL
2B	HOLLOW METAL FRAME (OUTSWING, 18 GA., DP65)	STEEL
2C	HOLLOW METAL FRAME (OUTSWING, KERF, 16 GA., DP75)	STEEL
2D	HOLLOW METAL FRAME (OUTSWING, KERF, 18 GA., DP65)	STEEL
3A	HOLLOW METAL FRAME (INSWING, 18 GA.)	STEEL
3B	HOLLOW METAL FRAME (INSWING, KERF, 18 GA.)	STEEL
4A	4" HOLLOW METAL HEADER (OUTSWING, 18 GA.)	STEEL
6	THRESHOLD (OUTSWING, HAGER 477S)	ALUMINUM
7	ADA THRESHOLD	ALUMINUM
8	WEATHERSTRIP (HAGER 736 PRESS ON)	-
9	WEATHERSTRIP (HAGER 875S)	-
10	WEATHERSTRIP (Q-LON)	-
11	DOOR SWEEP (NGP 95WH)	-
12	DOOR SWEEP	-
16	4.5" X 4.5" HINGE	STEEL
17	HINGE REINFORCEMENT (10 GA.)	STEEL
18	STRIKE PLATE	STEEL
19	LOCK REINFORCEMENT	STEEL
20	EMA TUBE ANCHOR	STEEL
21	EMA BUTTERFLY ANCHOR	STEEL
22	STUD STRAP ANCHOR	STEEL
23	WIRE ANCHOR	STEEL
24	T ANCHOR	STEEL
25	#12-24 X 1/2" FH MACHINE SCREW	STEEL
26	#12 X 1" FH SCREW	STEEL
27	#6 X 5/8" PHSMS	STEEL
28	#10 X 1-1/2" SELF-DRILLING SMS (MIN. 3 THREAD EMBEDMENT)	STEEL
29	#8 X 1-1/2" PFH WOOD SCREW (MIN. 1-3/8" EMBEDMENT)	STEEL



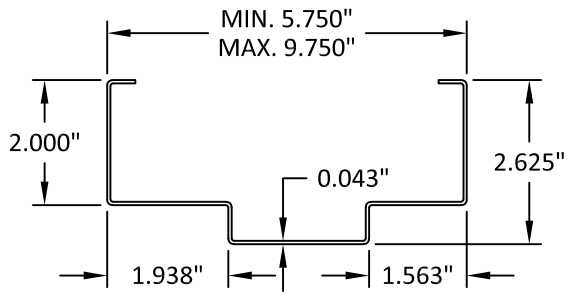
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OUTSWING, 16 GA., DP75



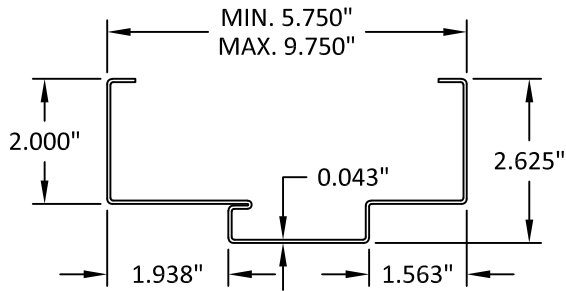
2C HOLLOW METAL FRAME
OUTSWING, KERF, 16 GA., DP75



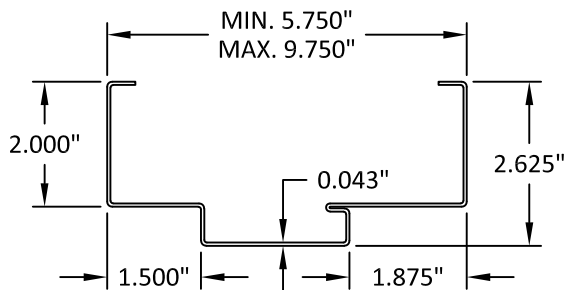
3A HOLLOW METAL FRAME
INSWING, 18 GA.



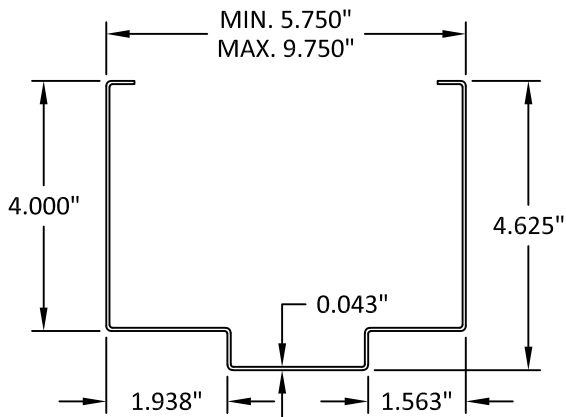
2B HOLLOW METAL FRAME
OUTSWING, 18 GA., DP65



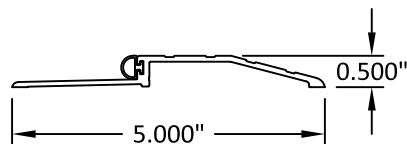
2D HOLLOW METAL FRAME
OUTSWING, KERF, 18 GA., DP65



3B HOLLOW METAL FRAME
INSWING, KERF, 18 GA.



4A HOLLOW METAL HEADER
OUTSWING, 18 GA.



6 THRESHOLD
HAGER 477SS



7 THRESHOLD
ADA



VISION
HOLLOW METAL LIMITED

400 ZENWAY BLVD. UNIT #1
WOODBIDGE, ON L4H 3H9, CANADA
PH: (905) 851-1121

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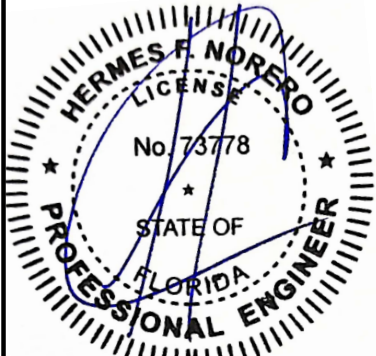
BILL OF MATERIALS & COMPONENTS

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**BUILDING DROPS**

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