

DE LA FONTAINE

OUTSWING DOUBLE & SINGLE FLUSH STEEL DOOR (HVHZ)(IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - ASTM E283-04(12)
 - ASTM E330-14(21)
 - ASTM E1886-19
 - ASTM E1996-23
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X 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.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND ANCHOR LAYOUT IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 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.
- THIS PRODUCT IS LARGE AND SMALL MISSILE IMPACT RESISTANT APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE DEEMED ACCEPTABLE. INSTALLATION AND USE IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE APPROPRIATE AUTHORITY HAVING JURISDICTION. FIRE RATING IS NOT PART OF THIS APPROVAL. CONSULT THE MANUFACTURER FOR APPROVED CONFIGURATIONS AND FIRE RATING SPECIFICATIONS.
- OPTIONAL RACEWAYS, POWER TRANSFERS, MONITORING SWITCHES, AND SUPPLEMENTAL MAGNETIC LOCKS MAY BE USED AS ALLOWED BY THE CURRENT FLORIDA BUILDING CODE GIVEN THE IMPLEMENTATION DOES NOT EFFECT THE MECHANICAL PROPERTIES OF HARDWARE AND/OR INHIBIT EGRESS. TO BE REVIEWED BY THE BUILDING OFFICIAL OR THE APPROPRIATE AUTHORITY HAVING JURISDICTION.

*NOTE: WHEN INSTALLED AT A LOCATION PROTECTED BY AN OVERHANG SUCH THAT:
OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥ 1.0 ,
PRODUCT REQUIRES LIMITED WATER (LW) TESTING IN HVHZ.

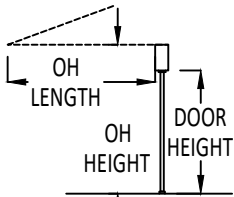


FIGURE A

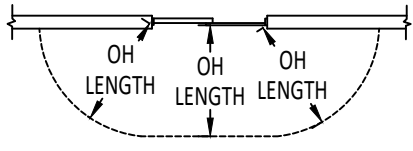


FIGURE B

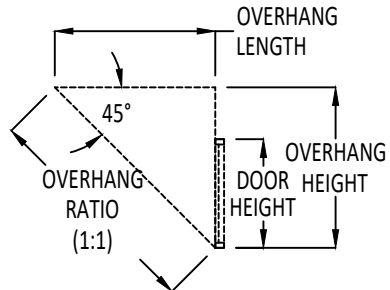


FIGURE C

CONSTRUCTION NOTES:

- DOOR CONSTRUCTION:
 - PANEL MATERIAL: 18 GA. A40/A60/G90 GALV. STEEL MIN. (0.042" MIN.)
 - OVERALL PANEL THICKNESS: MIN. 1 3/4 INCH TO MAX. 2 1/4 INCH
 - DOOR CORES:
 - HONEYCOMB
 - POLYSTYRENE
 - POLYURETHANE
 - STEEL STIFFENED (POLYSTYRENE OR POLYURETHANE)
 - EDGE SEAMS:
 - STANDARD LOCK WELDED AT THE TOP AND BOTTOM.
 - STANDARD LOCK WITH EPOXY FILLED AND GRINDED SMOOTH SEAM
 - CONTINUOUS WELD LOCK SEAM
 - TWO (2) TOP AND ONE (1) BOTTOM CHANNELS ARE 16 GA. STEEL AND ARE SPOT WELDED TO EACH FACE SHEET 3" O.C.
 - HINGES:
 - HAGER BB1191
 - HAGER BB1168
 - HAGER BB1199
 - HAGER BB1279
 - HAGER 780-112 ROTON
 - HINGE REINFORCEMENTS ARE LOCATED AT EACH HINGE LOCATION.
 - LOCK REINFORCEMENTS ARE USED WHEN APPLICABLE.
- FRAME CONSTRUCTION:
 - FRAME MATERIAL: 16 GA. A40/A60/G90 GALV. STEEL MIN. (0.054" MIN.)
 - FRAME DEPTH: 5.75" MIN. (DOUBLE RETURNS QUALIFIED)
 - CORNER CONSTRUCTION:
 - KNOCK-DOWN
 - FACE WELD
 - FULL WELD
 - HINGE REINFORCEMENT IS LOCATED AT EACH HINGE LOCATION.
 - LOCK STRIKE REINFORCEMENTS ARE USED WHEN APPLICABLE.

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FLORIDA BUILDING CODE DESIGN PRESSURES					
CONFIGURATION	LATCHING HARDWARE TYPE	LATCHING HARDWARE SERIES	*WHERE WATER INFILTRATION IS NOT REQUIRED OR IS PROTECTED BY OVERHANG	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED OR IS NOT PROTECTED BY OVERHANG	MISSILE IMPACT RATING
SINGLE	CYLINDRICAL LOCKSET	SCHLAGE D/ND	+/- 70 PSF	+/- 50 PSF	LARGE AND SMALL MISSILE IMPACT RATED
		SARGENT 11	+/- 70 PSF		
		CAL-ROYAL GENESIS	+/- 70 PSF		
		HAGER 3400	+/- 50 PSF		
	CYLINDRICAL LOCKSET WITH DEADBOLT	HAGER 3500 WITH HAGER 3200 DEADBOLT	+/- 65 PSF		
	MORTISE LOCKSET WITH DEADBOLT	SCHLAGE L9000	+/- 70 PSF		
		SARGENT 8200	+/- 70 PSF		
	RIM EXIT DEVICE	VON DUPRIN 98/99	+/- 50 PSF		
		CORBIN RUSSWIN ED5200S X M107	+/- 70 PSF		
		HAGER 4500	+/- 65 PSF		
	SURFACE VERTICAL RODS	VON DUPRIN WS9827/WS9927	+/- 70 PSF		
		CORBIN RUSSWIN ED5470	+/- 50 PSF		
DOUBLE	CYLINDRICAL LOCKSET	SCHLAGE D/ND	+/- 70 PSF	NOT APPROVED	LARGE AND SMALL MISSILE IMPACT RATED
		SARGENT 11	+/- 70 PSF		
		CAL-ROYAL GENESIS	+/- 70 PSF		
	MORTISE LOCKSET WITH DEADBOLT	SCHLAGE L9000	+/- 70 PSF		
		SARGENT 8200	+/- 70 PSF		
	SURFACE BOLTS	IVES 360	+/- 70 PSF		
		SARGENT 998	+/- 70 PSF		
	RIM EXIT DEVICE	VON DUPRIN 98/99 WITH HH9954 MULLION	+/- 50 PSF		
		CORBIN RUSSWIN ED5200S X M107 WITH FE707A MULLION	+/- 70 PSF		
		**HAGER 4500 WITH HAGER 4500 MULLION	+/- 65 PSF		
	SURFACE VERTICAL RODS	VON DUPRIN WS9827/WS9927	+/- 70 PSF		
		CORBIN RUSSWIN ED5470	+/- 50 PSF		

**NOTE: PANEL HEIGHT LIMITED TO 83-1/8".



4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

TITLE: OUTSWING DOUBLE & SINGLE FLUSH STEEL DOOR (HVHZ) (IMPACT)

GENERAL & CONSTRUCTION NOTES

PREPARED BY: BUILDING DROPS, INC.

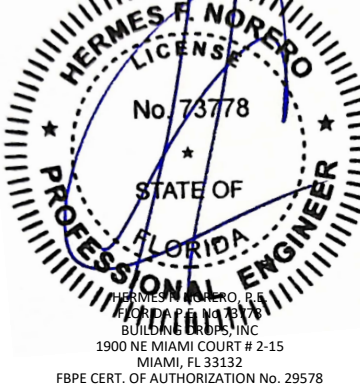
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
DP & HDW UPDATE	DI	8/22/24
MINOR UPDATE	DI	4/15/25
A: HDW UPDATE	JR	2/24/26
2026 CODE CHANGE	HJ	6/22/26

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.18 14:24:03 -03'00'



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

FL46851

DATE: 06.18.24

DWG. BY: DI

CHK. BY: HFN

SCALE: NTS

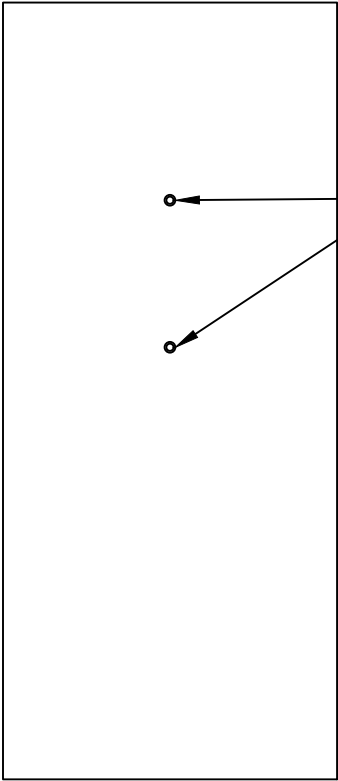
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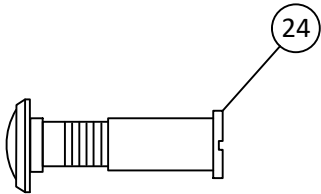
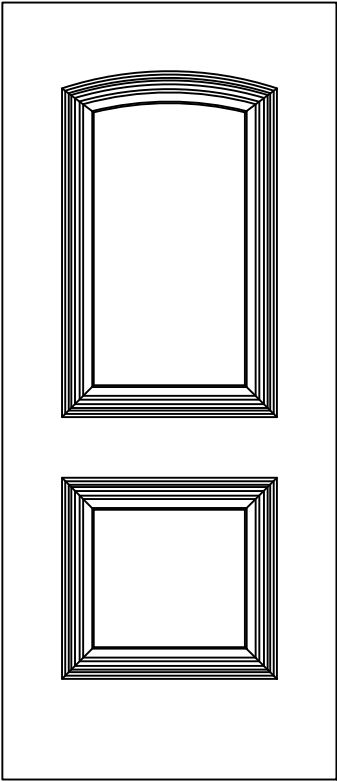
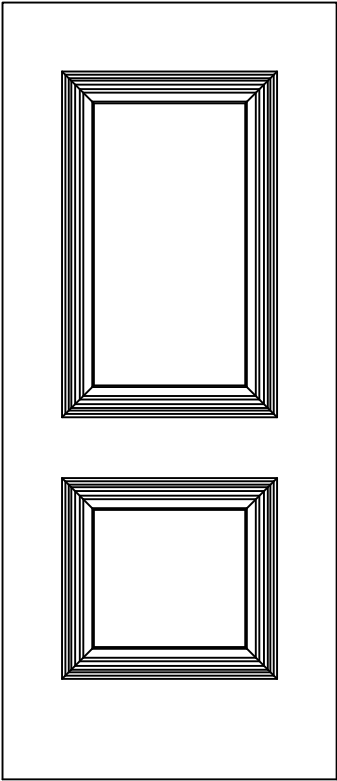
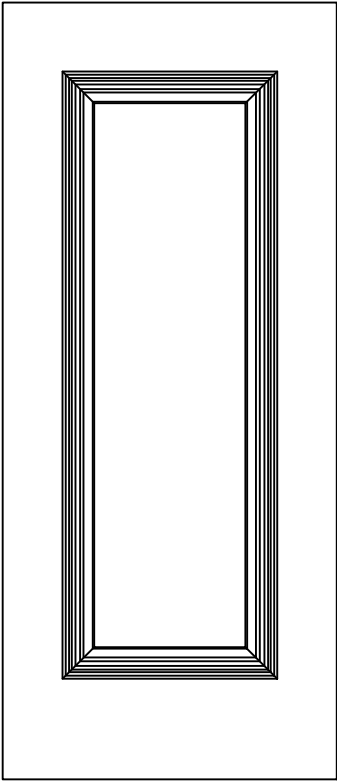
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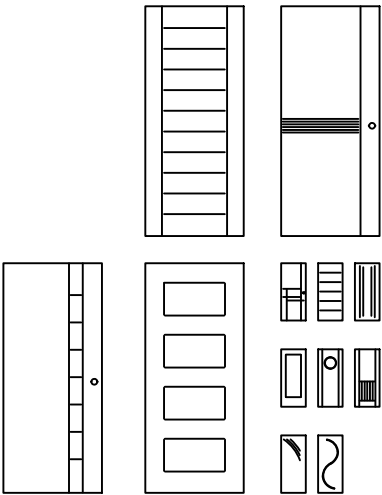
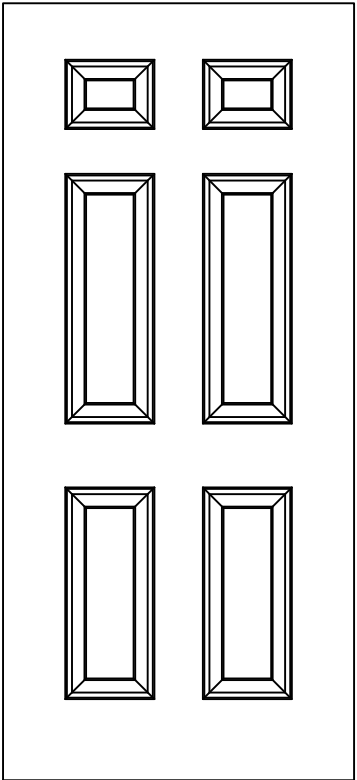
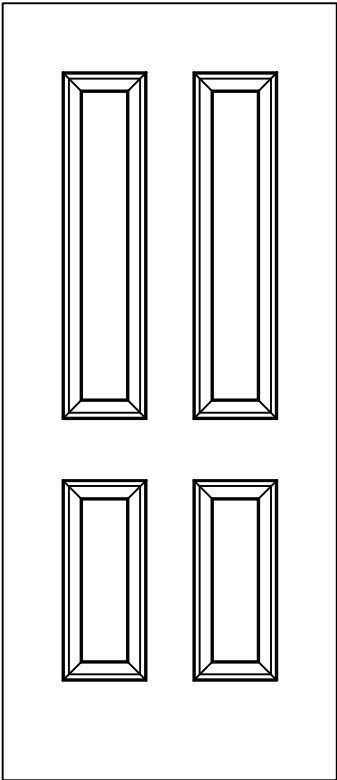
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OPTIONAL VIEWERS
SEE DETAIL XX
MAX. 2 PER DOOR
MAX. 70 PSF



DETAIL XX
IVES 698/U698 DOOR VIEWER



**AVAILABLE DOOR PANEL
CONFIGURATIONS**

**NOTE: CUSTOM EMBOSING AVAILABLE.
CONTACT MANUFACTURER FOR MORE INFORMATION.**



4115 BRODEUR STREET
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TITLE: OUTSWING DOUBLE &
SINGLE FLUSH STEEL DOOR
(HVHZ) (IMPACT)

PANEL CONFIGURATIONS

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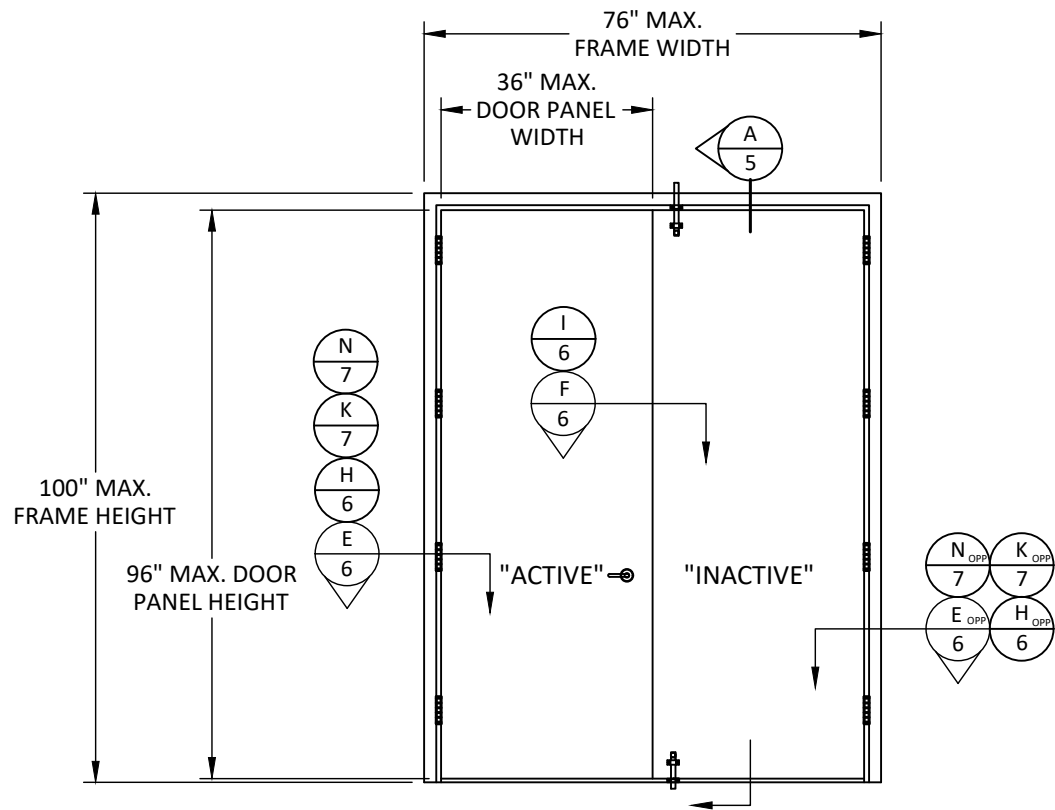
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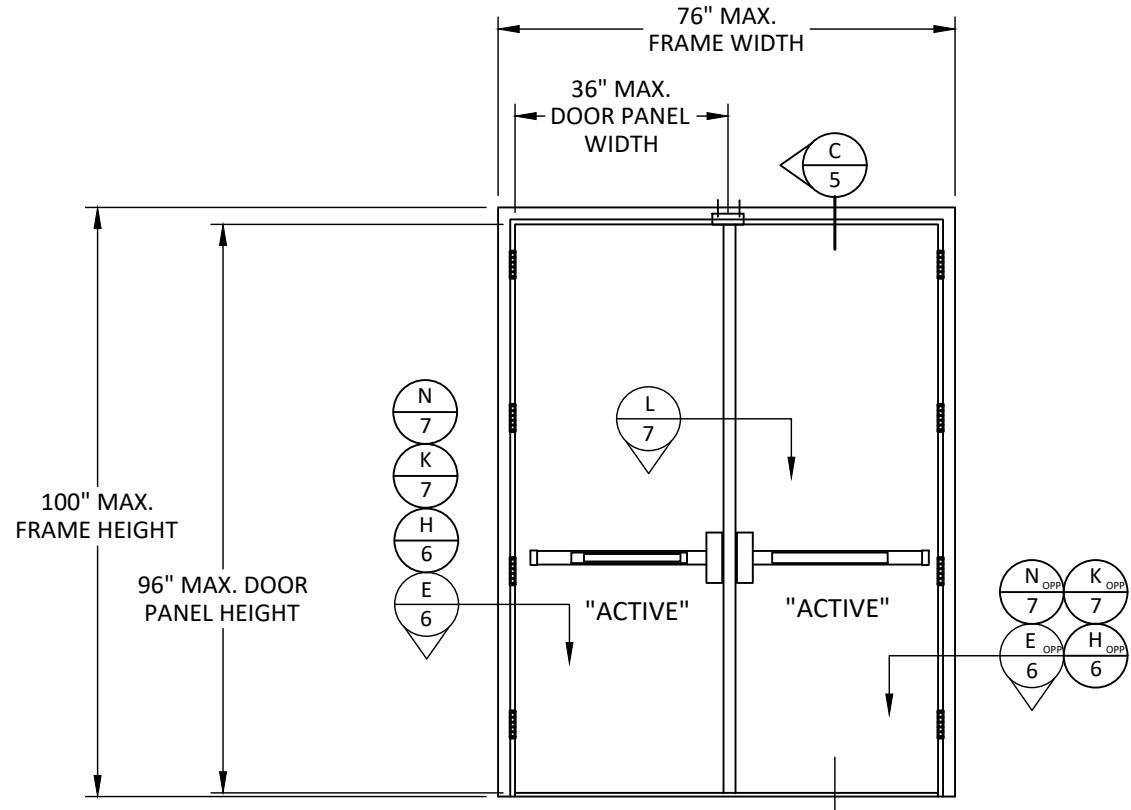
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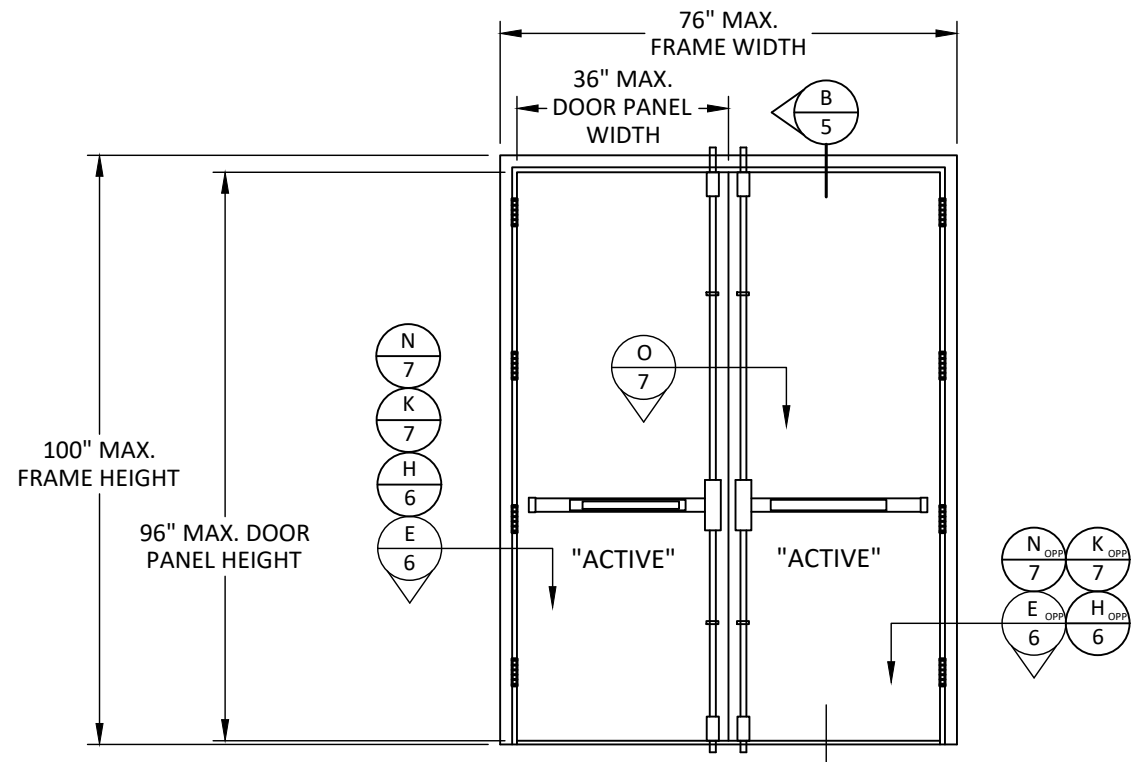


ELEVATION A
CYLINDRICAL LOCK (AS SHOWN) OR MORTISE LOCKSET
WITH DEAD BOLT (NOT SHOWN) ON ACTIVE PANEL ,
SURFACE BOLTS ON INACTIVE

NOTE: MAXIMUM FRAME
HEIGHT TO BE 100" WHEN OPTIONAL
4" HEADER FRAME IS USED. FOR USE
WITH FULLY WELDED OR FACE WELDED
CORNERS ONLY.

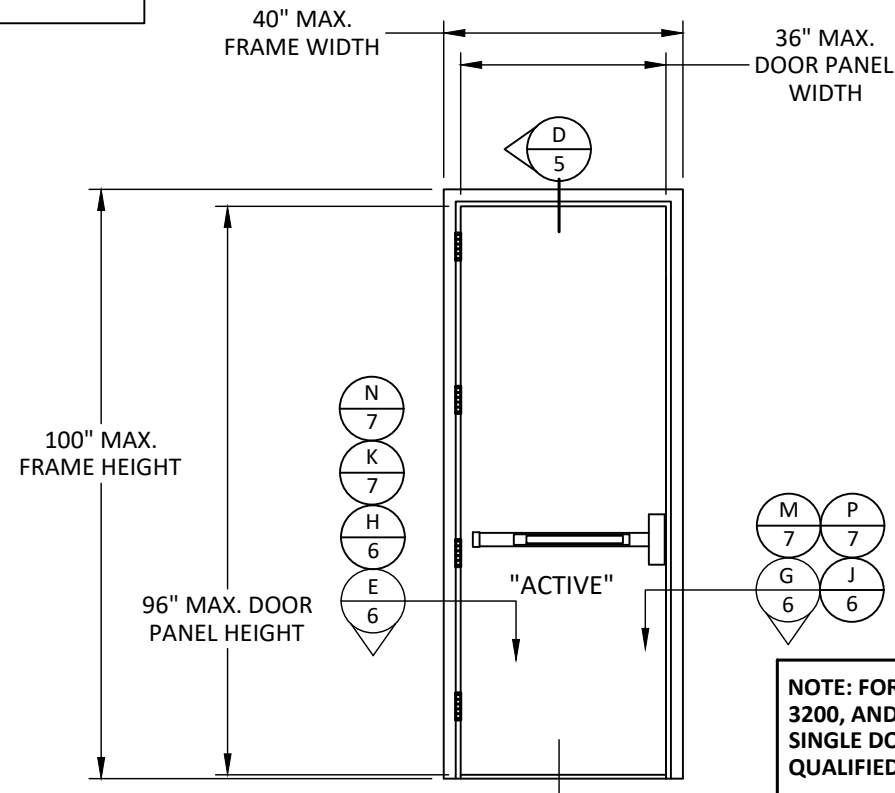


ELEVATION B
RIM EXIT DEVICES WITH
REMOVABLE MULLION



ELEVATION C
EXIT DEVICES WITH SURFACE VERTICAL RODS

NOTE: ALTERNATE QUALIFIED SINGLE
DOOR HARDWARE OPTIONS INCLUDE
CYLINDRICAL LOCK, MORTISE LOCKSETS WITH
DEADBOLT OR SURFACE VERTICAL RODS.



ELEVATION D
RIM EXIT DEVICE

NOTE: FOR HAGER 3400, 3500,
3200, AND 4500 HARDWARE,
SINGLE DOOR CONFIGURATION IS
QUALIFIED FOR:

- MAXIMUM DOOR SIZE:
47-3/4" X 95-1/8".
- MAXIMUM FRAME (ROUGH
OPENING) SIZE: 52" X 100".



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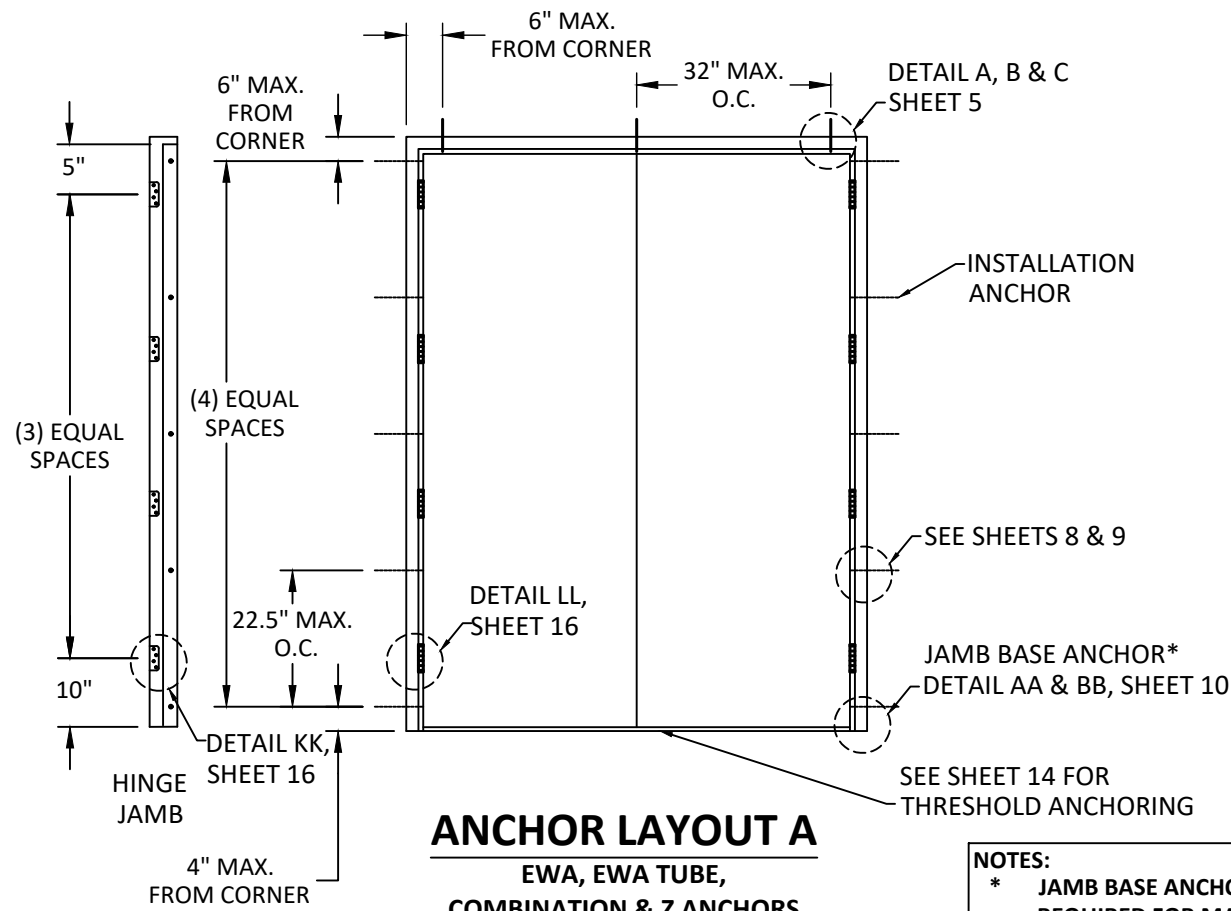
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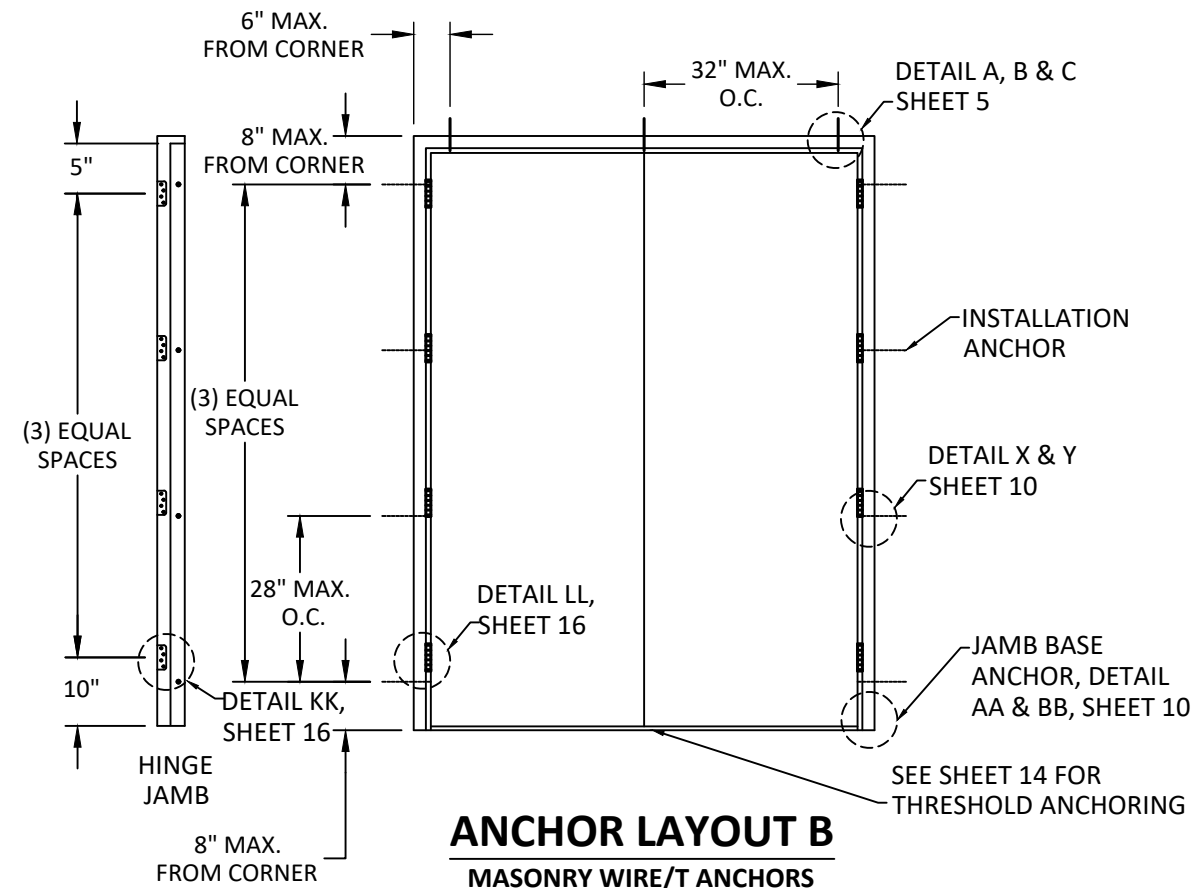
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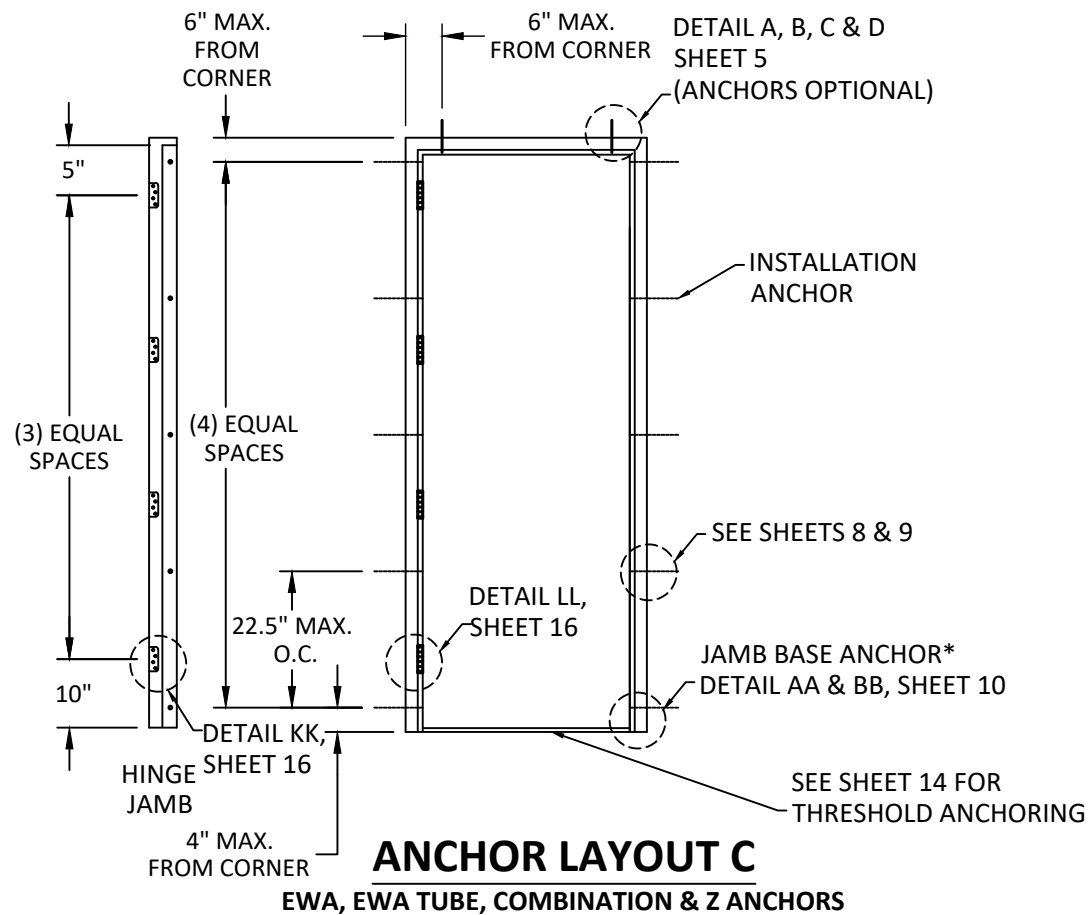


ANCHOR LAYOUT A
EWA, EWA TUBE,
COMBINATION & Z ANCHORS

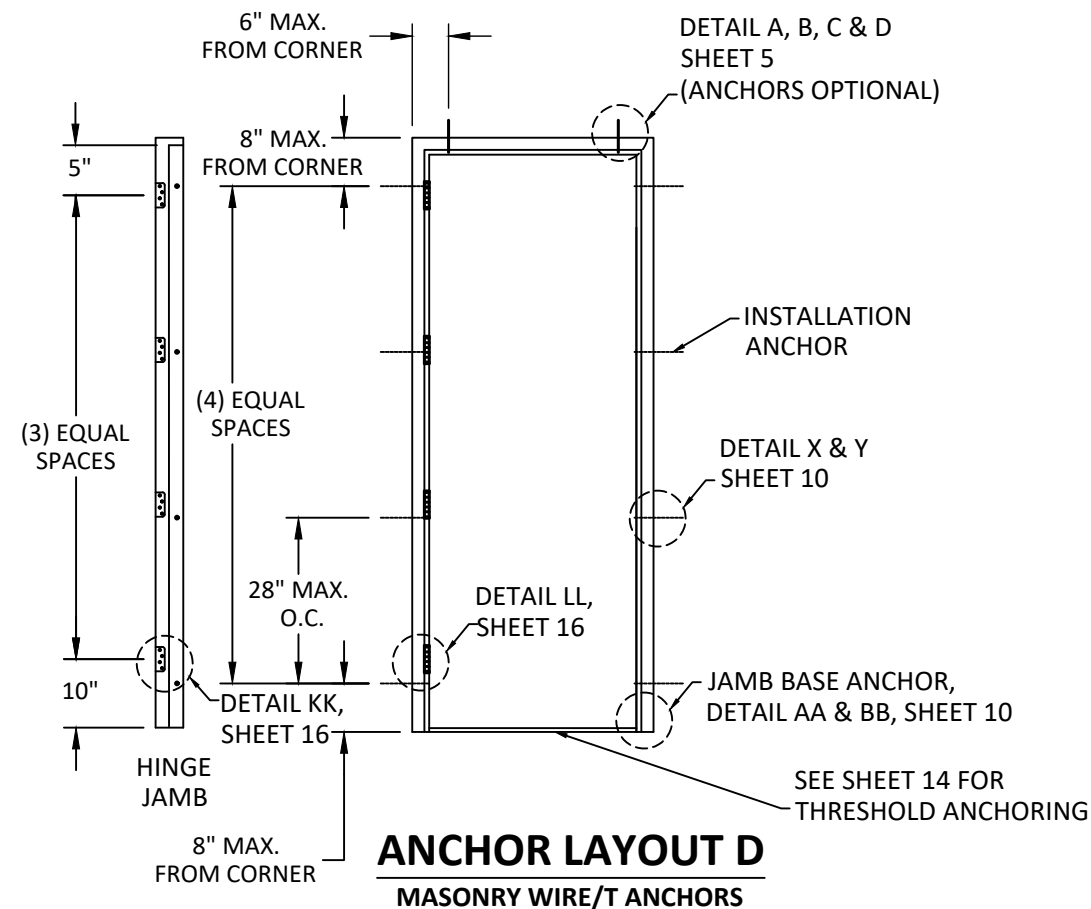
NOTES:
* JAMB BASE ANCHOR IS ONLY
REQUIRED FOR MASONRY WIRE/T,
COMBINATION & Z ANCHORS. NOT
REQUIRED FOR EWA ANCHORS



ANCHOR LAYOUT B
MASONRY WIRE/T ANCHORS



ANCHOR LAYOUT C
EWA, EWA TUBE, COMBINATION & Z ANCHORS



ANCHOR LAYOUT D
MASONRY WIRE/T ANCHORS



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ANCHOR LAYOUTS
AND NOTES

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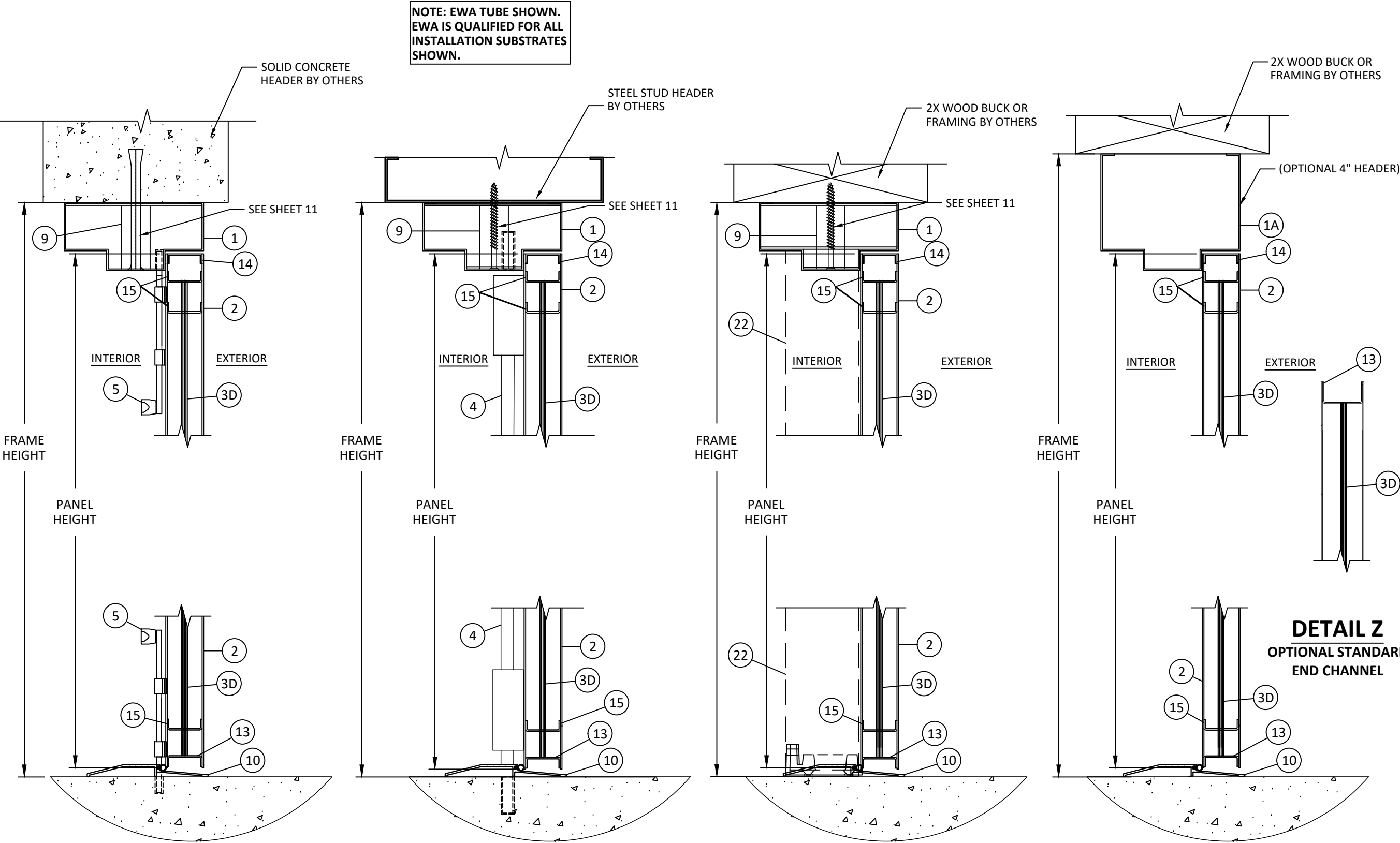


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A
5
VERTICAL SECTION
HEAD/SILL - CONCRETE/MASONRY
(MORTISE LOCK/
CYLINDRICAL LOCK WITH SURFACE BOLTS)

B
5
VERTICAL SECTION
HEAD - STEEL STUD
SILL - CONCRETE/MASONRY
(SURFACE VERTICAL ROD)

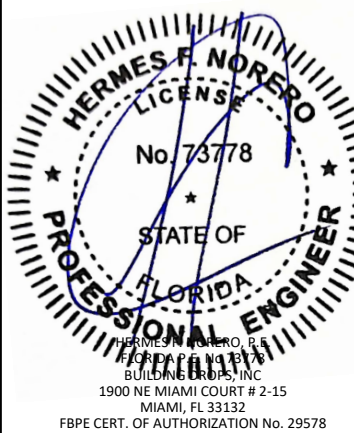
C
5
VERTICAL SECTION
HEAD - 2X WOOD FRAME
SILL - CONCRETE
(REMOVABLE MULLION)

D
5
VERTICAL SECTION
HEAD - 2X WOOD FRAME
SILL - CONCRETE

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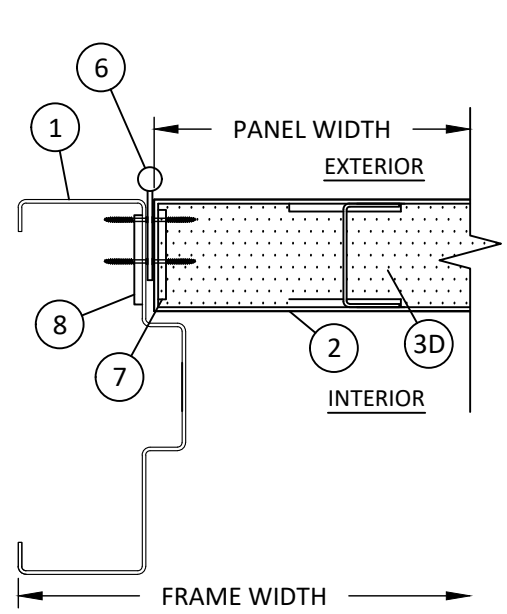
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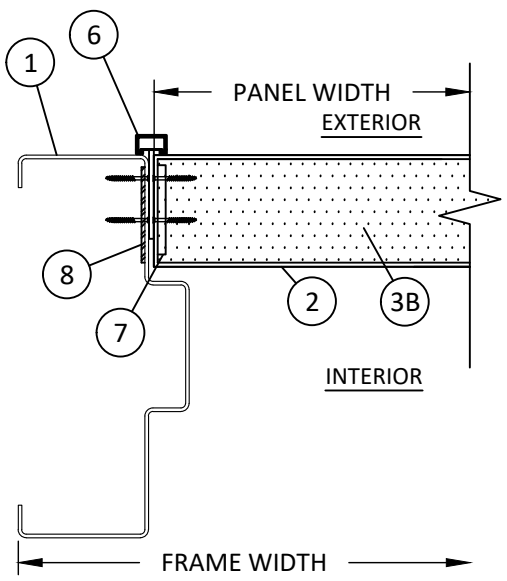
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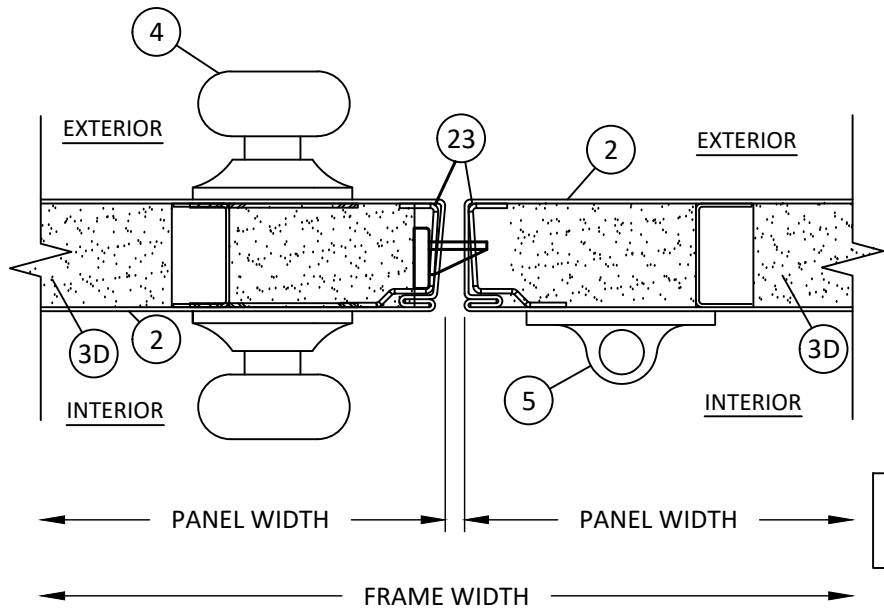


E
6 **HORIZONTAL SECTION**
BUTT HINGE JAMB

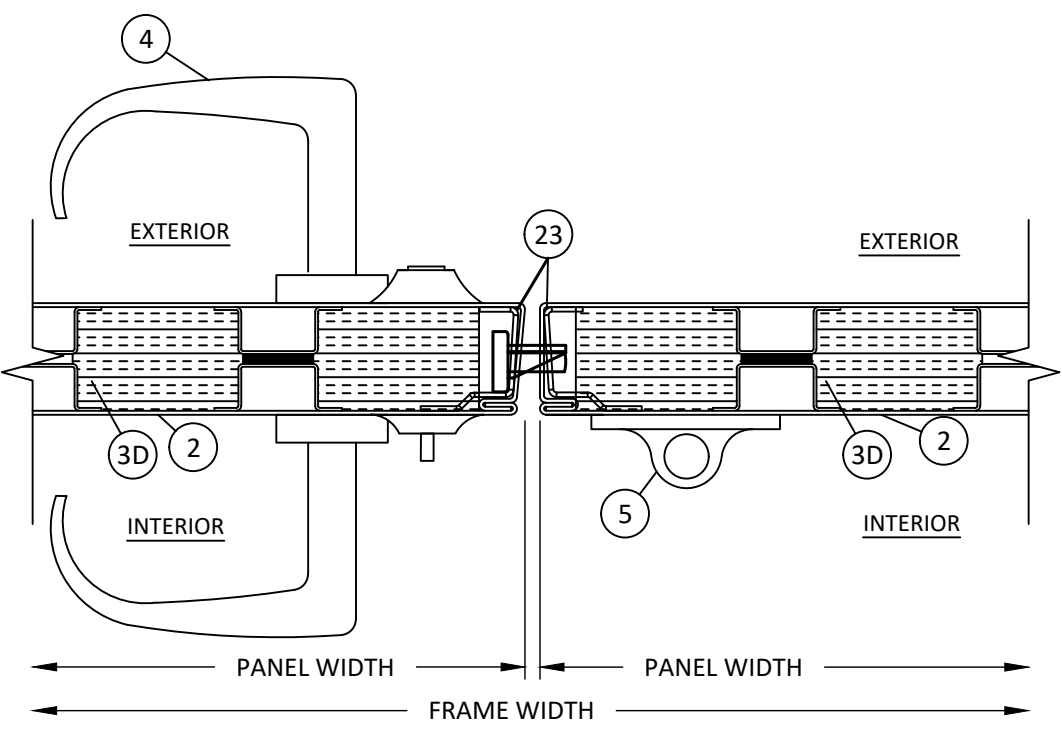
NOTE: DETAILS SHOWN WITH VARYING DOOR CORE TYPES. ANY DETAIL IS APPROVED TO BE USED WITH ANY CORE TYPE.



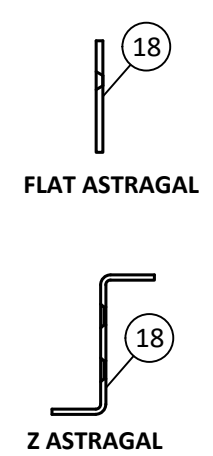
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6 **HORIZONTAL SECTION**
CONTINUOUS HINGE JAMB



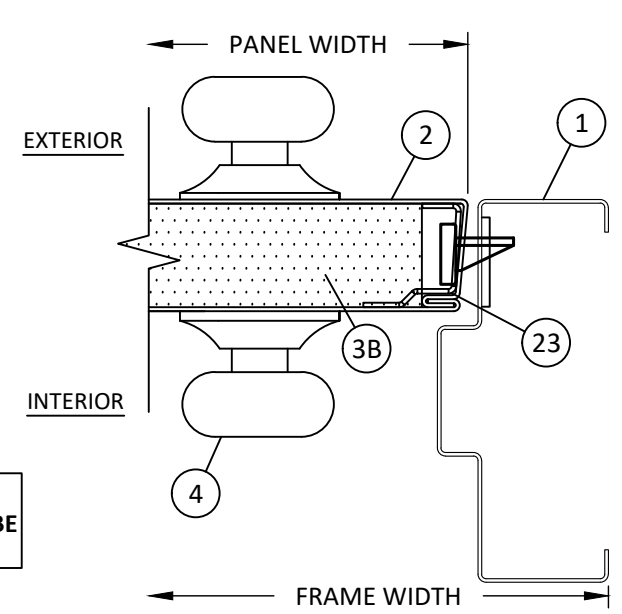
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6 **HORIZONTAL SECTION**
CYLINDRICAL LOCK & SURFACE BOLT MEETING STILE



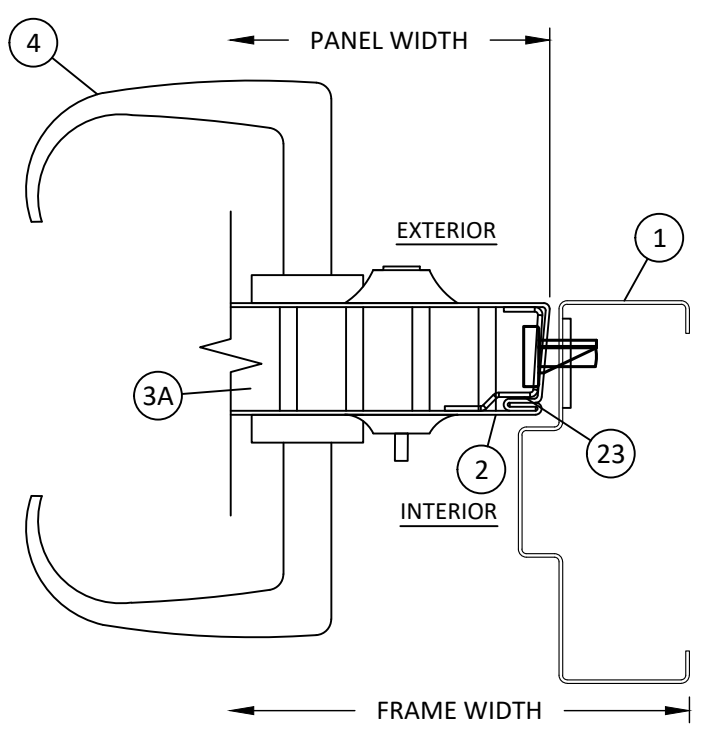
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6 **HORIZONTAL SECTION**
MORTISE LOCK W/ DB & SURFACE BOLT MEETING STILE



NOTE: FLAT ASTRAGAL & Z ASTRAGAL IS QUALIFIED TO BE USED WITH ALL HARDWARE.



G
6 **HORIZONTAL SECTION**
CYLINDRICAL LOCK LOCK JAMB



J
6 **HORIZONTAL SECTION**
MORTISE LOCK WITH DEADBOLT LOCK JAMB

DE LA FONTAINE
STEEL DOORS AND FRAMES

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HORIZONTAL SECTIONS

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MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DP & HDW UPDATE	DI	8/22/24
MINOR UPDATE	DI	4/15/25
A: HDW UPDATE	JR	2/24/26
2026 CODE CHANGE	HJ	6/22/26

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

FL46851

DATE: 06.18.24

DWG. BY: DI	CHK. BY: HFN
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SCALE: NTS

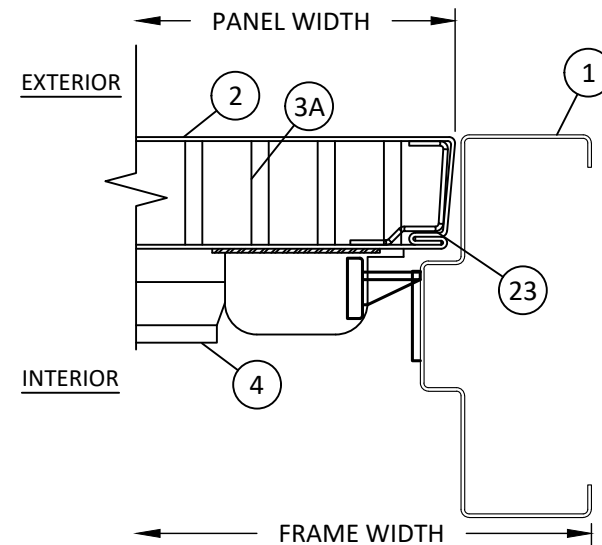
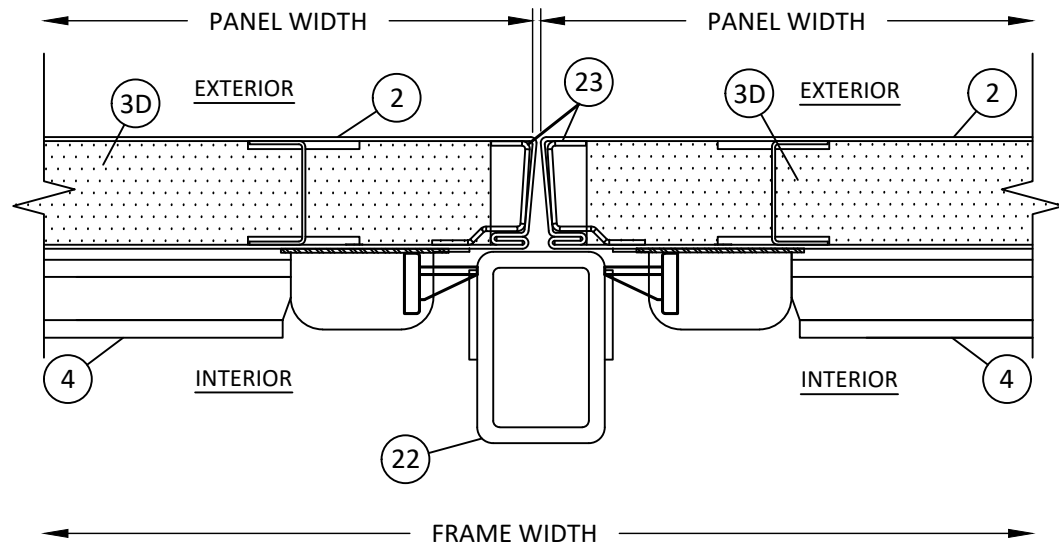
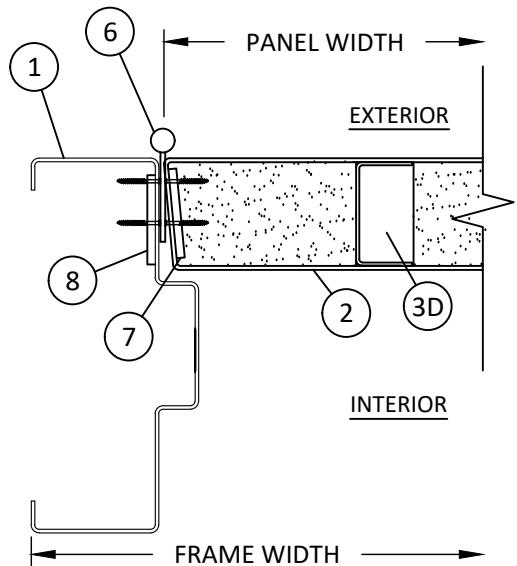
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OF 18

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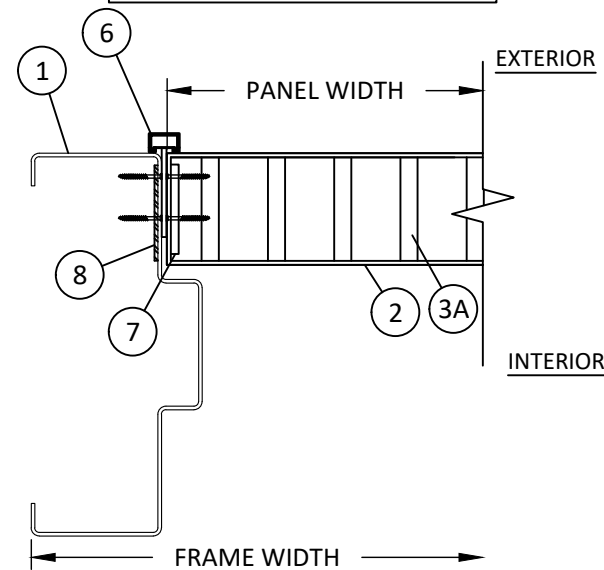


K 7

HORIZONTAL SECTION

BUTT HINGE JAMB

NOTE: DETAILS SHOWN WITH VARYING DOOR CORE TYPES. ANY DETAIL IS APPROVED TO BE USED WITH ANY CORE TYPE.



N 7

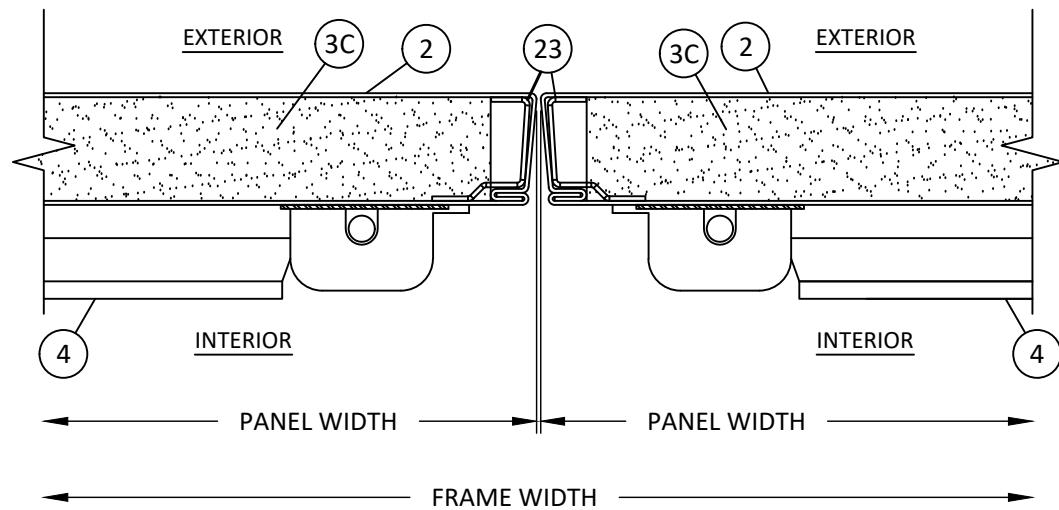
HORIZONTAL SECTION

CONTINUOUS HINGE JAMB

L 7

HORIZONTAL SECTION

RIM EXIT DEVICE W/ MULLION MEETING STILE



O 7

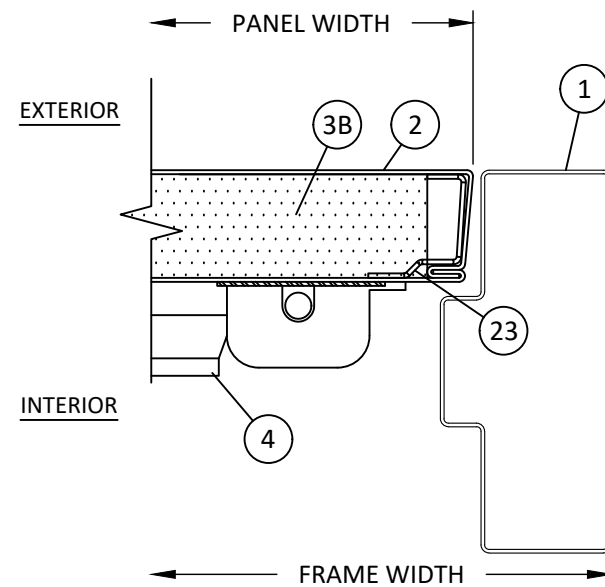
HORIZONTAL SECTION

SURFACE VERTICAL RODS MEETING STILE

M 7

HORIZONTAL SECTION

RIM EXIT DEVICE LOCK JAMB



P 7

HORIZONTAL SECTION

SURFACE VERTICAL RODS LOCK JAMB



4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

TITLE: OUTSWING DOUBLE & SINGLE FLUSH STEEL DOOR (HVHZ) (IMPACT)

HORIZONTAL SECTIONS

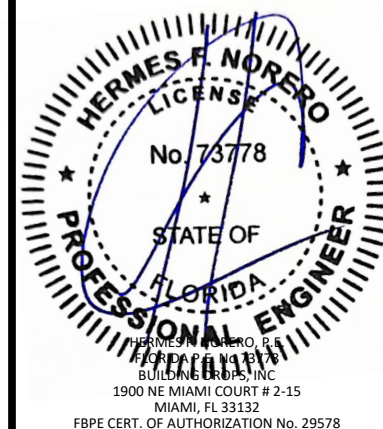
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
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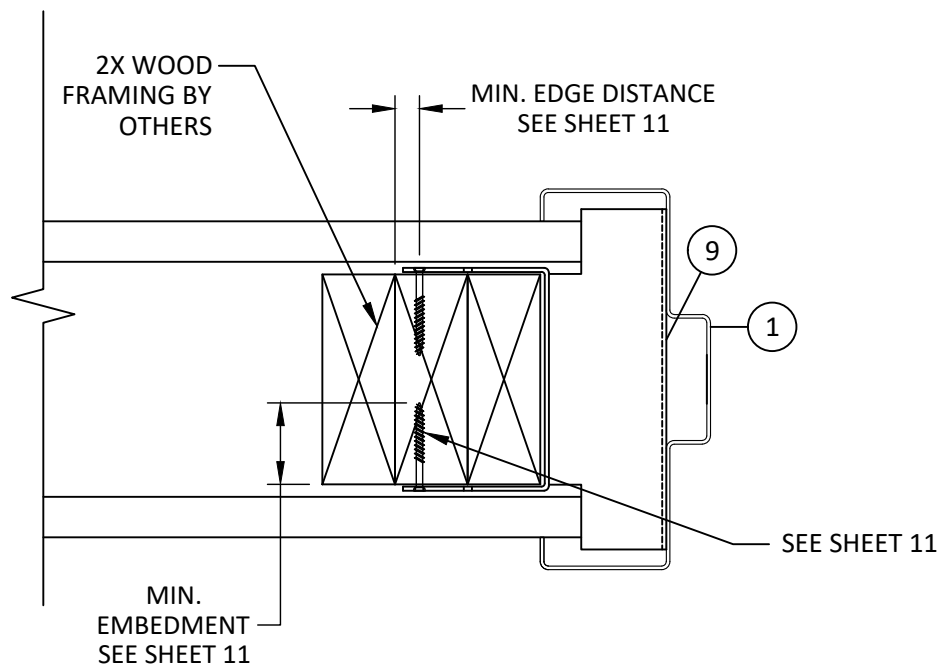
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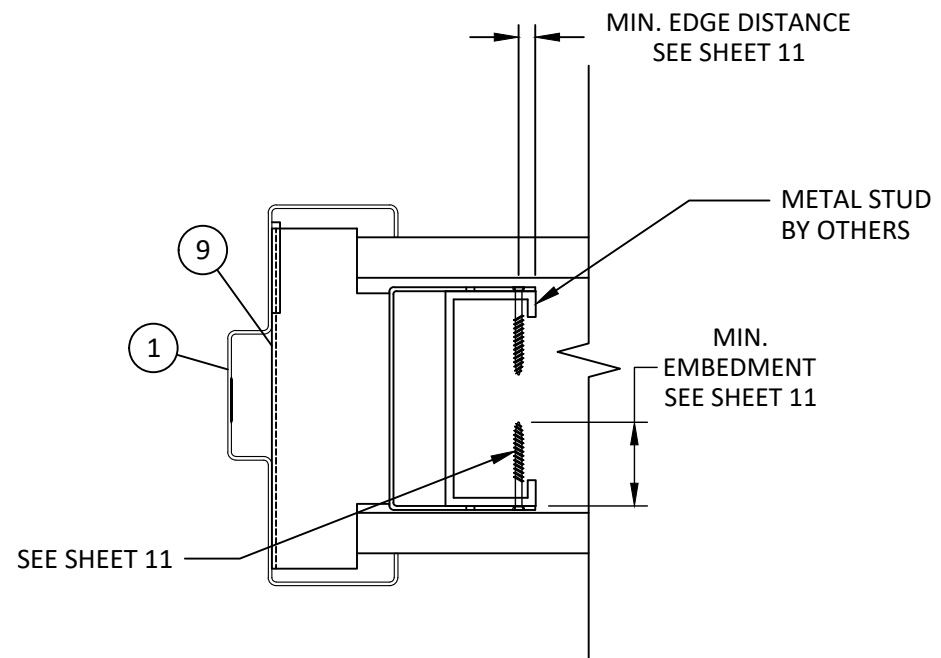
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OF 18

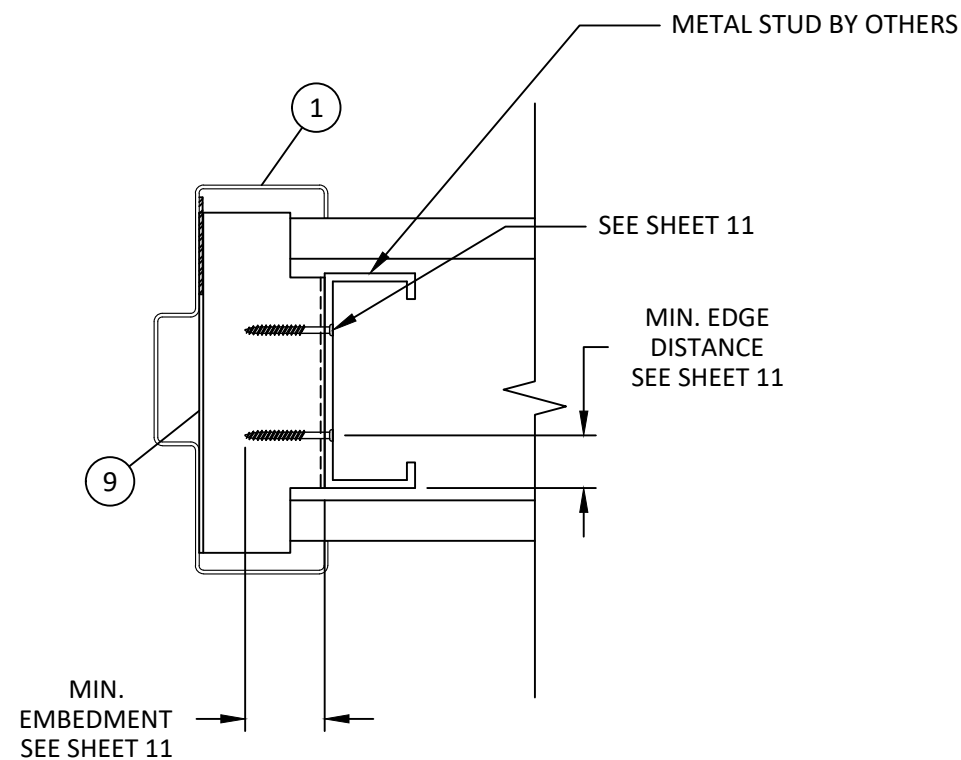
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Q
8 **HORIZONTAL SECTION**
COMBINATION ANCHOR
WOOD STUD



R
8 **HORIZONTAL SECTION**
COMBINATION ANCHOR
METAL STUD



S
8 **HORIZONTAL SECTION**
Z ANCHOR
METAL STUD

TITLE: OUTSWING DOUBLE &
SINGLE FLUSH STEEL DOOR
(HVHZ) (IMPACT)

INSTALLATION DETAILS -
COMBINATION AND Z
ANCHORS

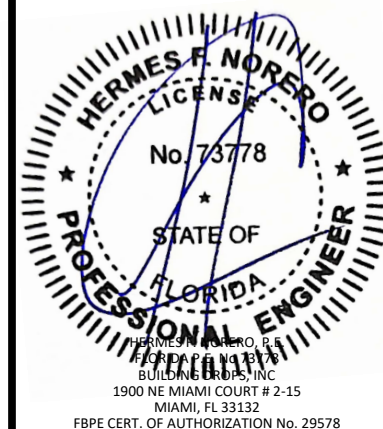
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
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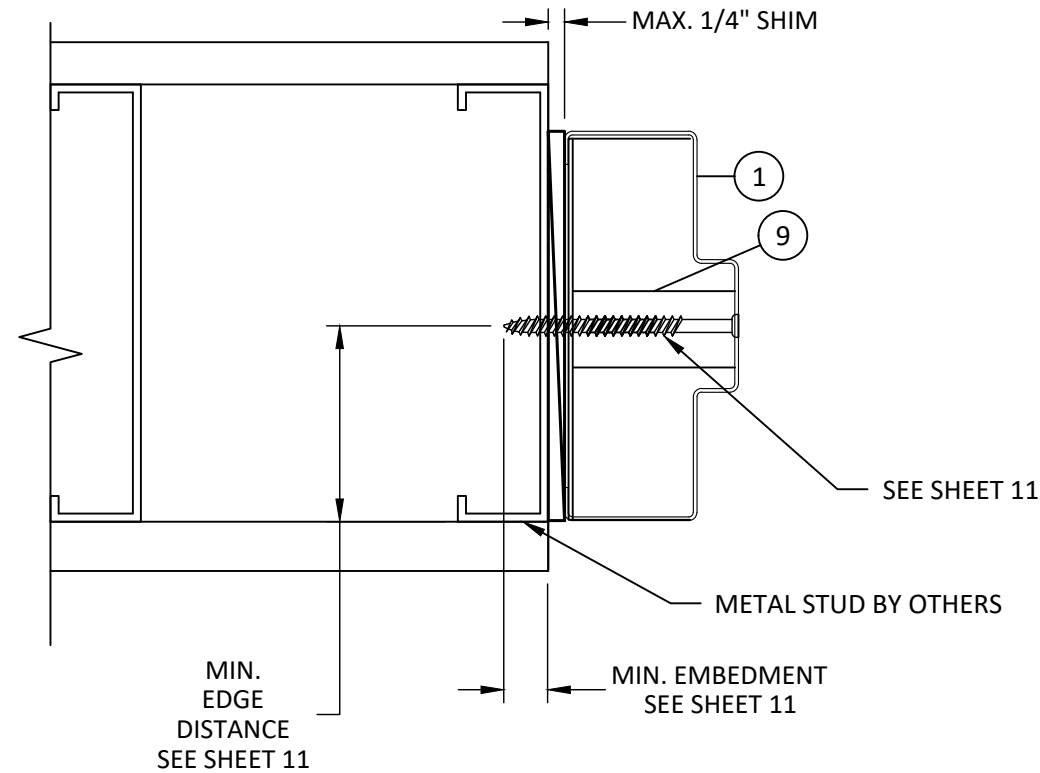
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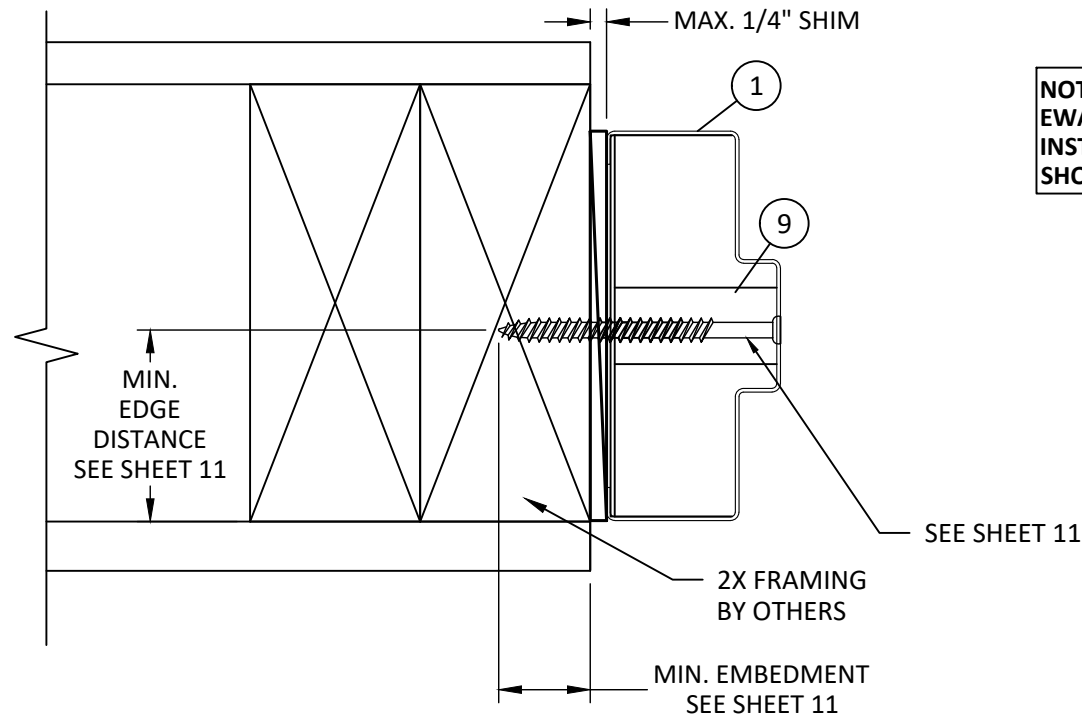
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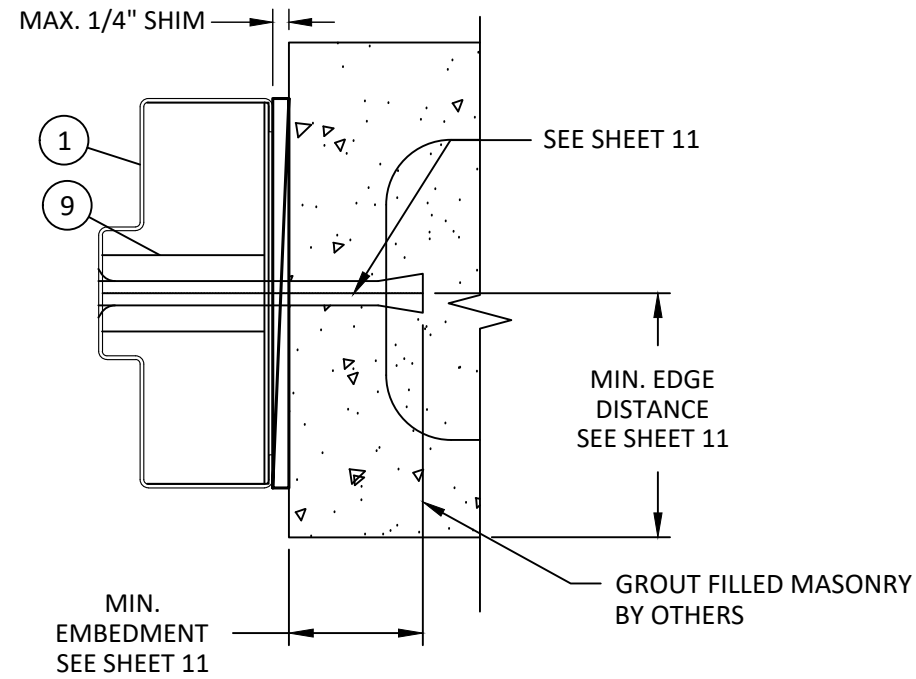


T
9 **HORIZONTAL SECTION**
EWA TUBE ANCHOR
METAL STUD

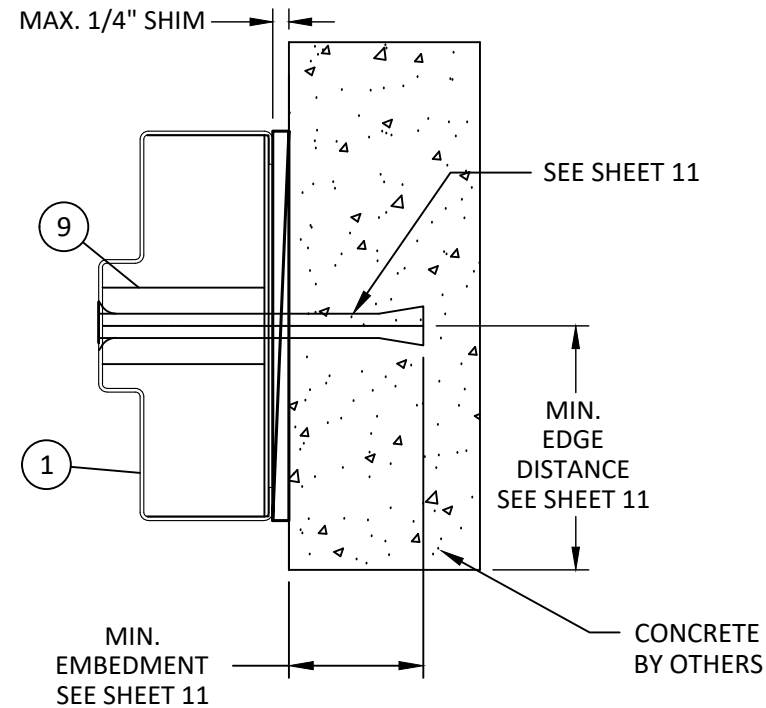


V
9 **HORIZONTAL SECTION**
EWA TUBE ANCHOR
WOOD STUD

NOTE: EWA TUBE SHOWN.
EWA IS QUALIFIED FOR ALL
INSTALLATION SUBSTRATES
SHOWN.



U
9 **HORIZONTAL SECTION**
EWA TUBE ANCHOR
CONCRETE MASONRY UNIT



W
9 **HORIZONTAL SECTION**
EWA TUBE ANCHOR
CONCRETE



4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

TITLE: OUTSWING DOUBLE &
SINGLE FLUSH STEEL DOOR
(HVHZ) (IMPACT)

INSTALLATION DETAILS -
EWA ANCHORS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954) 399-8478

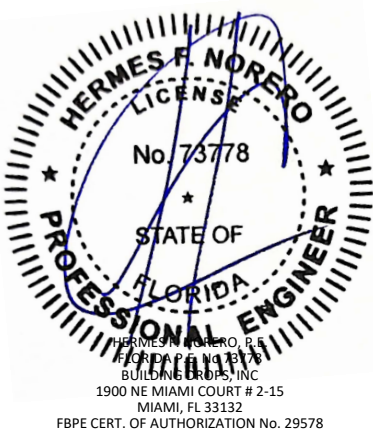
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
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2026 CODE CHANGE	HJ	6/22/26

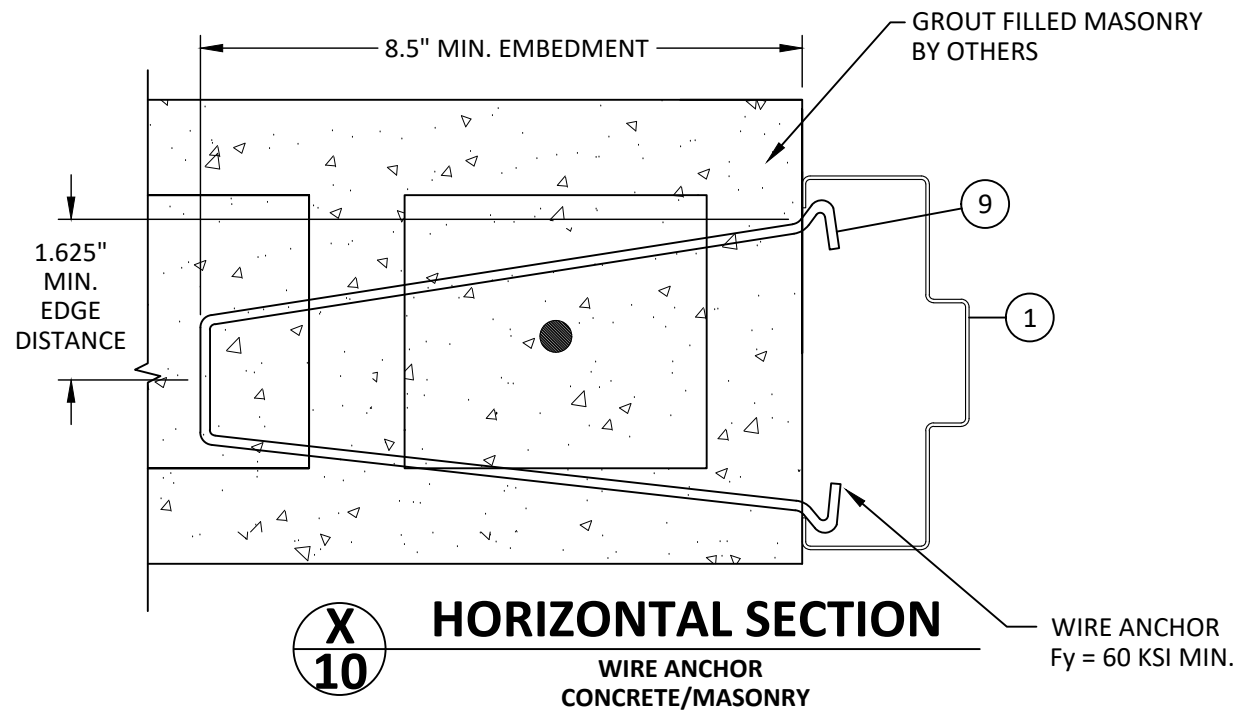
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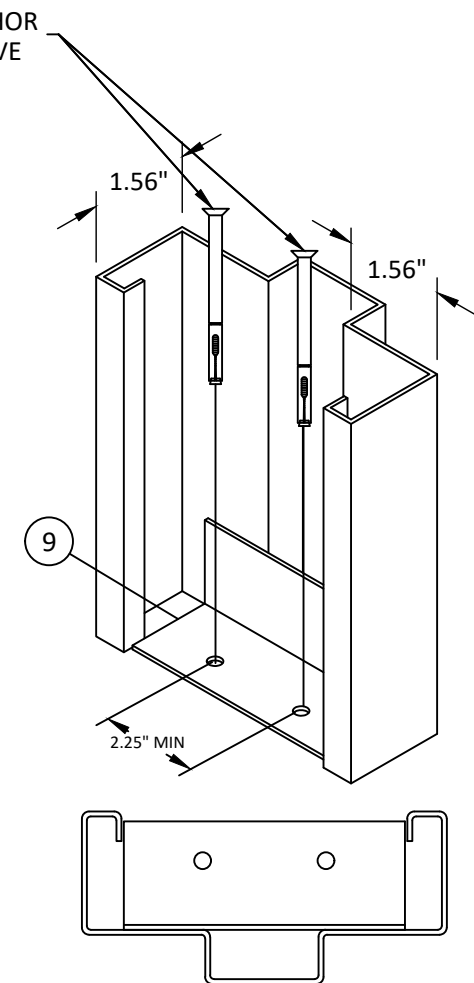
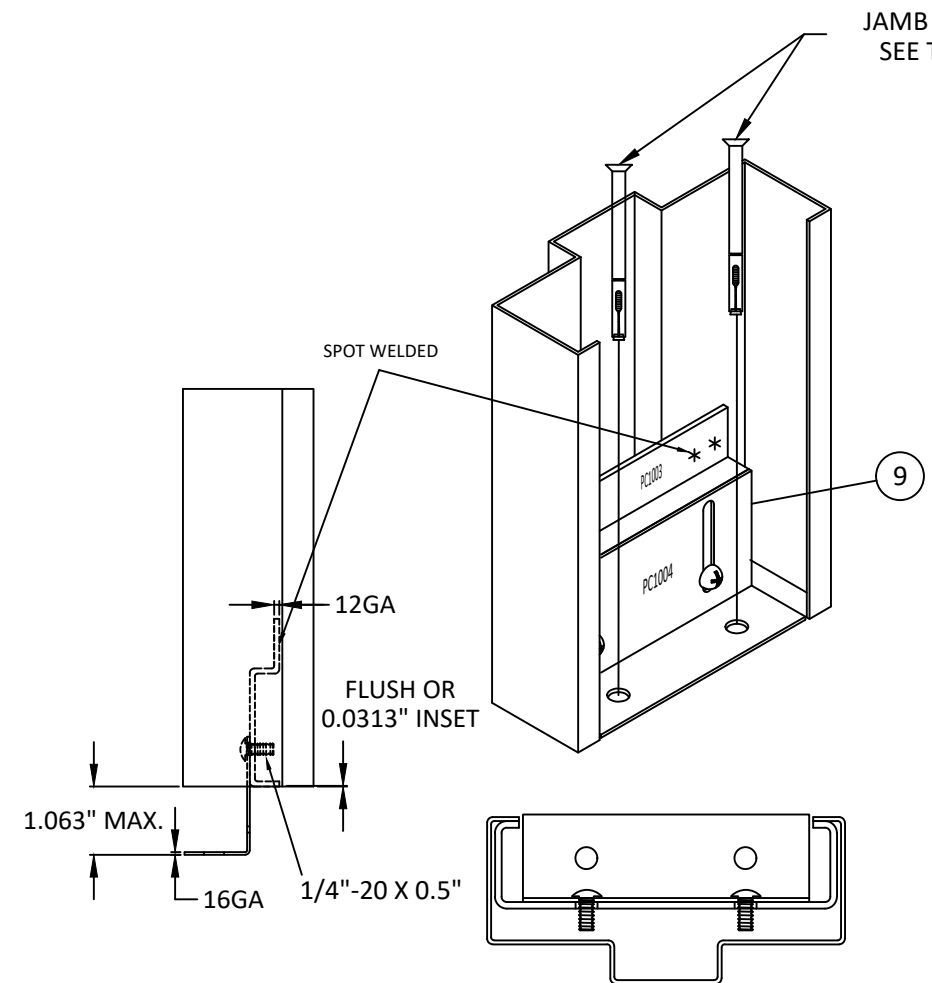
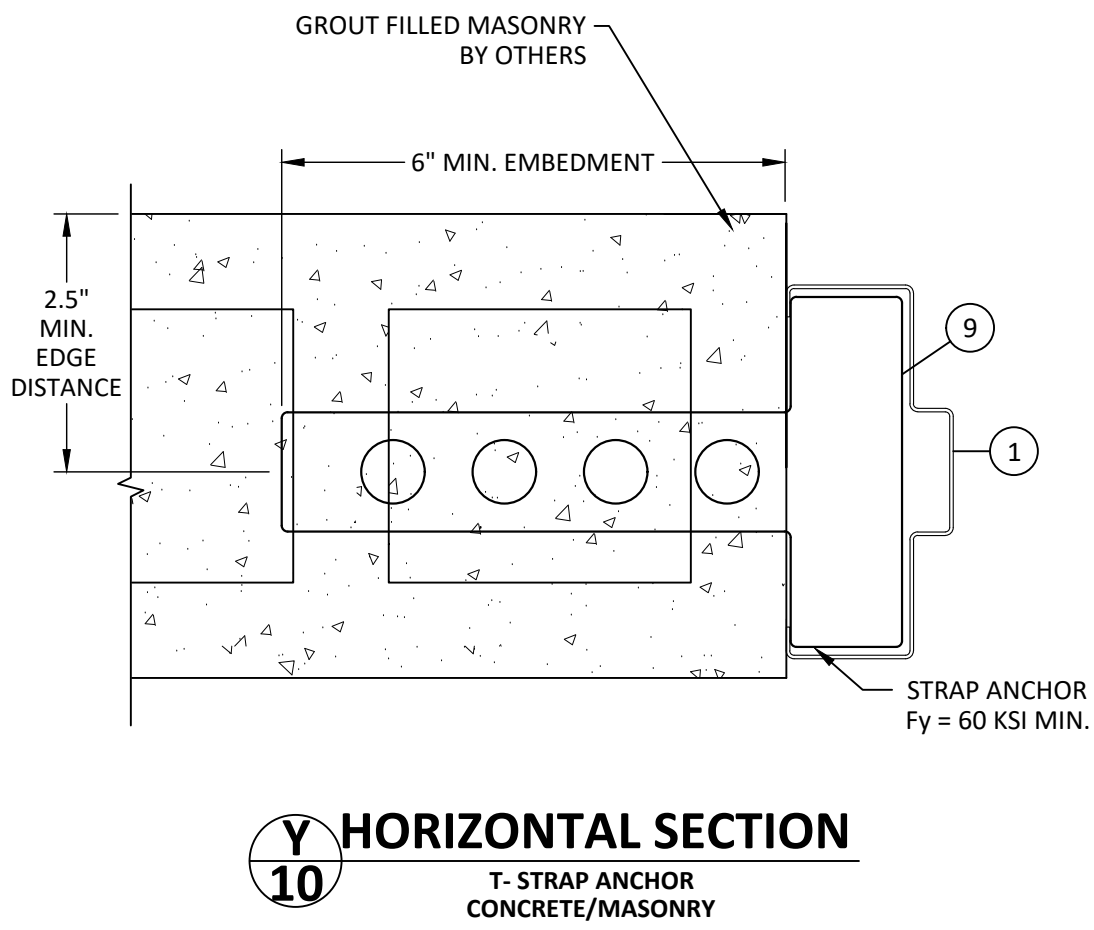
FL46851

DATE:	06.18.24
DWG. BY:	DI
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DLF004
SHEET:	9
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JAMB BASE ANCHOR SCHEDULE			
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. S.G. = 0.55	#10 WOOD SCREW	1-1/2"	3/4"
STEEL: MIN. 18 GA. MIN. Fy = 33 ksi	#10 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	3/16" ITW TAPCON	1"	2"
MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1"	2"



NOTE: WELDED OR
ADJUSTABLE BASE ANCHOR TO BE
USED WITH T-STRAP, WIRE,
COMBINATION & Z ANCHOR ONLY

DE LA
FONTAINE
STEEL DOORS AND FRAMES

4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

TITLE: OUTSWING DOUBLE & SINGLE FLUSH STEEL DOOR (HVHZ) (IMPACT) INSTALLATION DETAILS - WIRE/T MASONRY & JAMB BASE ANCHORS

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

REMARKS

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

FL46851

DATE: 06.18.24

DWG. BY: DI

CHK. BY: HFN

SCALE: NTS

DWG. #: DLF004

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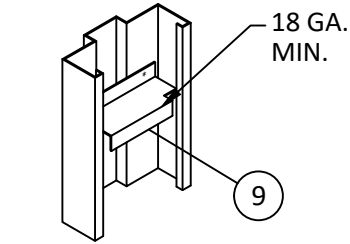
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OF 18

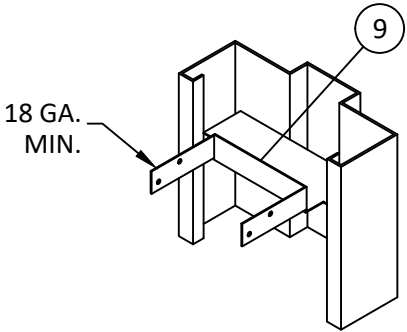
INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (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 HIGH DENSITY PLASTIC OR BETTER.
- 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.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- FOR GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 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.

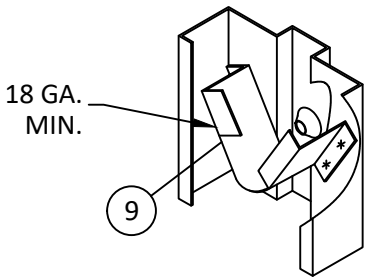
EWA & EWA TUBE ANCHOR SCHEDULE			
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. S.G. = 0.55	3/8" LAG SCREW	3"	1"
STEEL: MIN. 18 GA. MIN. Fy = 33 ksi	3/8" GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			
CONCRETE: MIN. f'c = 3000 psi	3/8" ITW TAPCON	1-1/2"	2-1/4"
	3/8" ITW DYNABOLT	1-1/2"	2-1/4"
MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/8" ITW TAPCON	1-1/2"	2-1/4"
	3/8" ITW DYNABOLT	1-1/2"	2-1/4"



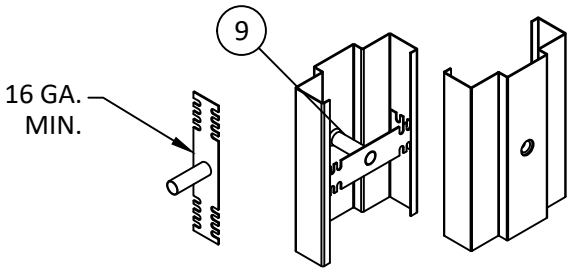
DETAIL CC
Z ANCHOR



DETAIL DD
COMBINATION WOOD/STEEL STUD ANCHOR



DETAIL EE
EXISTING WALL ANCHOR (EWA)



DETAIL FF
EXISTING WALL ANCHOR (EWA) TUBE

Z ANCHOR SCHEDULE			
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
STEEL: MIN. 18 GA. MIN. Fy = 33 ksi	#10 GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			

COMBINATION ANCHOR SCHEDULE			
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. S.G. = 0.55	#10 WOOD SCREW	1-1/2"	1/2"
STEEL: MIN. 18 GA. MIN. Fy = 33 ksi	#10 GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			



4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

TITLE: OUTSWING DOUBLE & SINGLE FLUSH STEEL DOOR (HVHZ) (IMPACT)

INSTALLATION DETAILS & NOTES

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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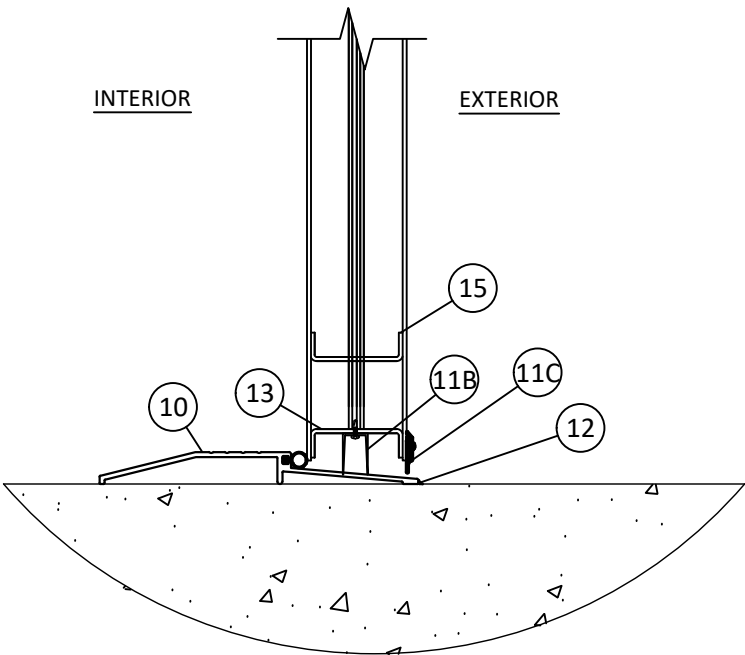
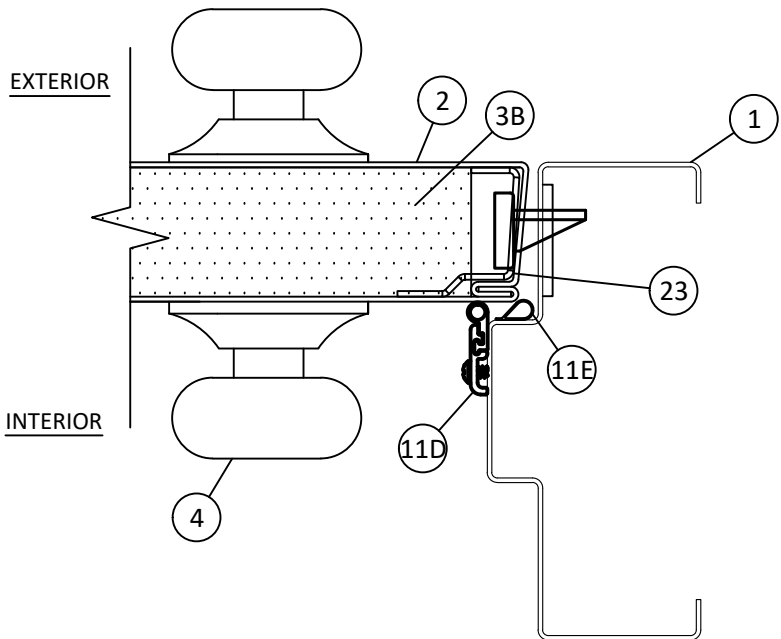
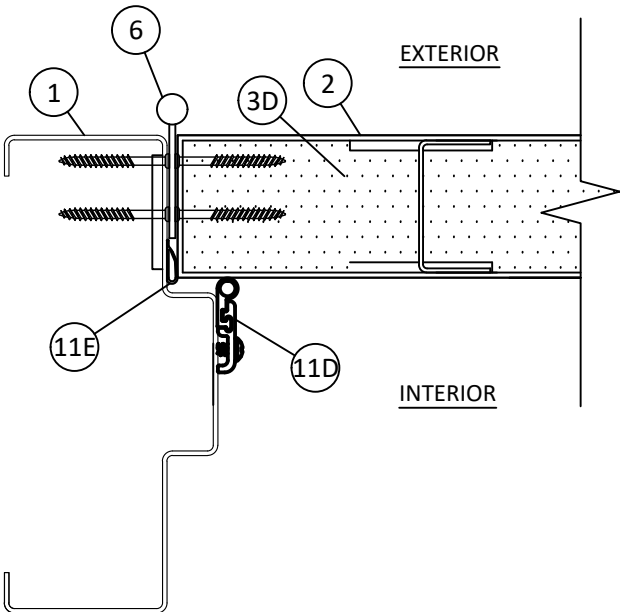
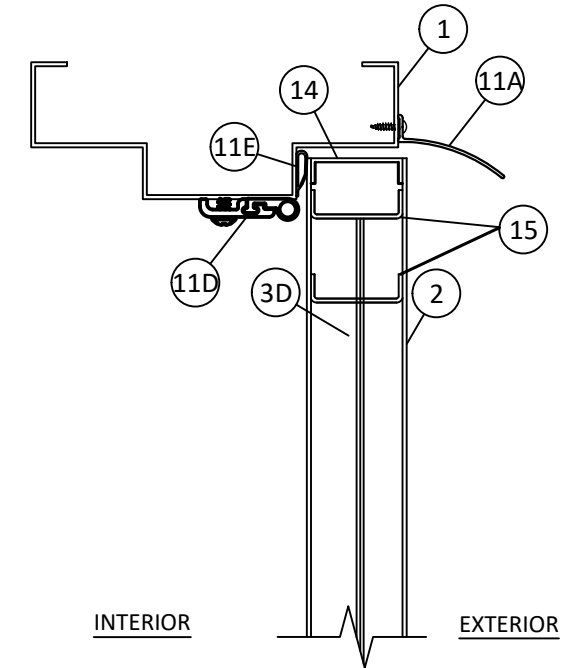


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DATE:	06.18.24
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DLF004
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GASKETING DETAILS FOR
WATER INFILTRATION



Z
12 VERTICAL SECTION
WATER INFILTRATION

AB
12 HORIZONTAL SECTION
WATER INFILTRATION

- NOTE:
1. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
 2. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK.



4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

OUTSWING DOUBLE &
SINGLE FLUSH STEEL DOOR
(HVHZ) (IMPACT)
GASKETING DETAILS FOR
WATER INFILTRATION

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



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SHEET:	

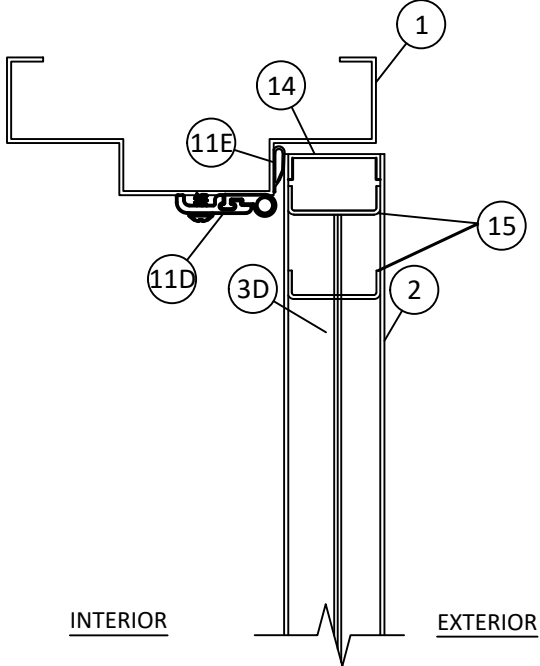
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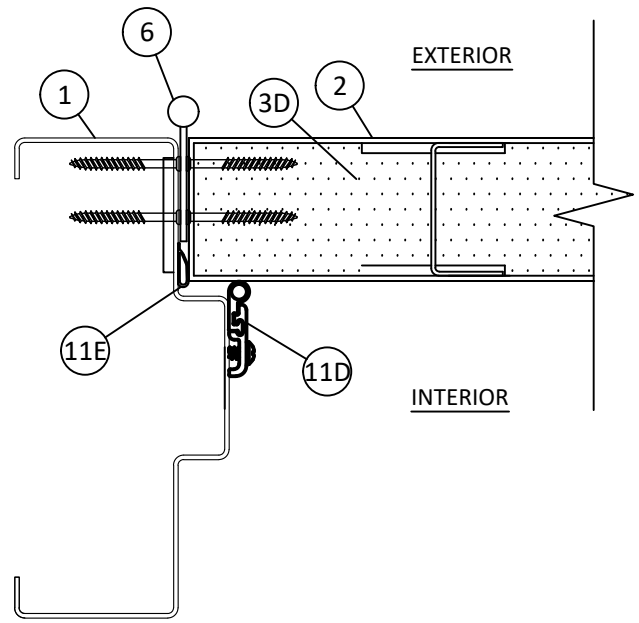
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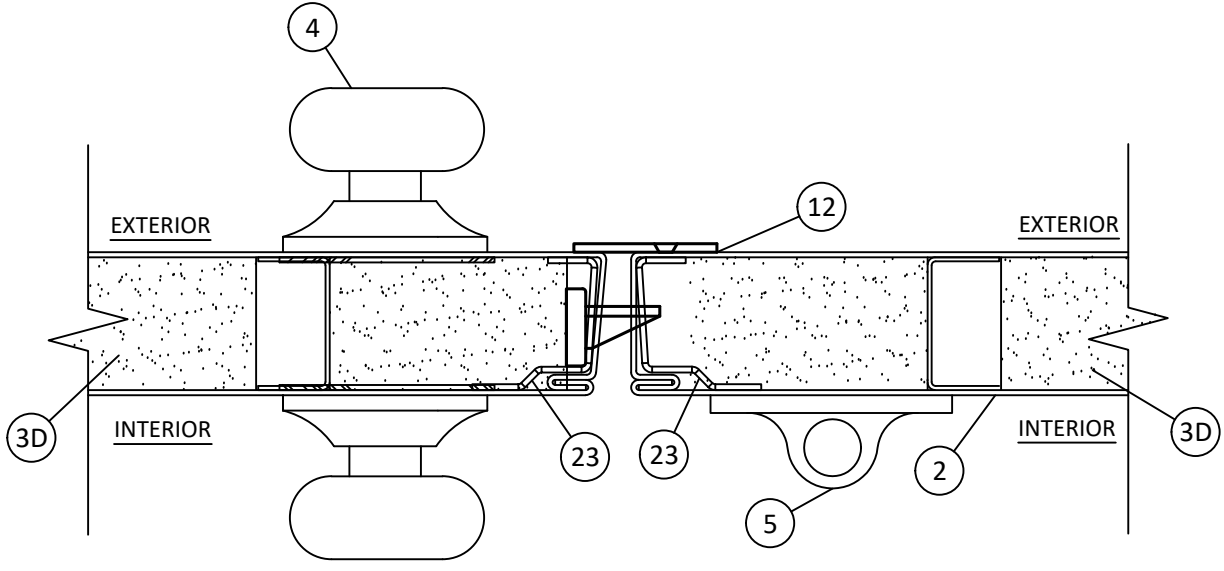
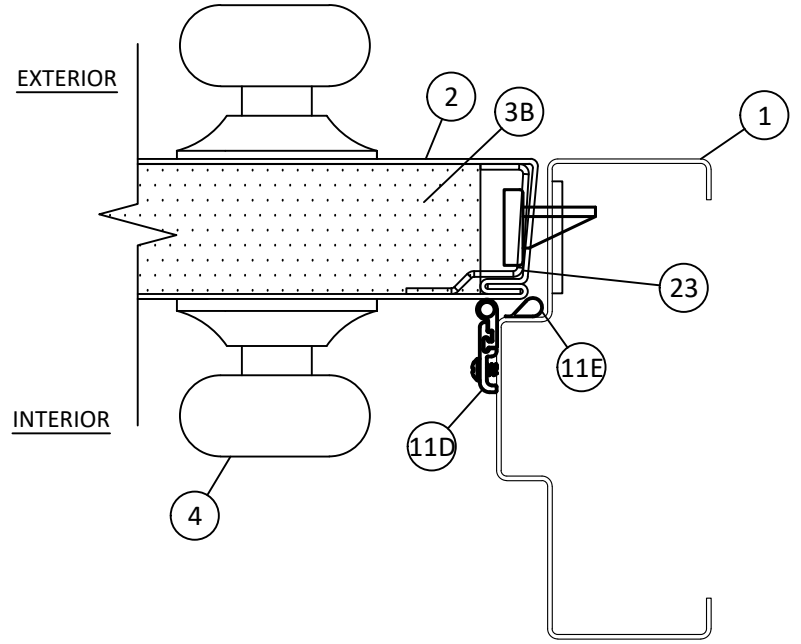
GASKETING DETAILS FOR
AIR INFILTRATION



AC 13 VERTICAL SECTION
AIR INFILTRATION



AD 13 HORIZONTAL SECTION
AIR INFILTRATION



AE 13 HORIZONTAL SECTION
AIR INFILTRATION

- NOTE:
1. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK.
 2. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK.



4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

TITLE: OUTSWING DOUBLE & SINGLE FLUSH STEEL DOOR (HVHZ) (IMPACT)
GASKETING DETAILS FOR AIR INFILTRATION

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

BUILDING DROPS

REMARKS	BY	DATE
DP & HDW UPDATE	DI	8/22/24
MINOR UPDATE	DI	4/15/25
A: HDW UPDATE	JR	2/24/26
2026 CODE CHANGE	HJ	6/22/26

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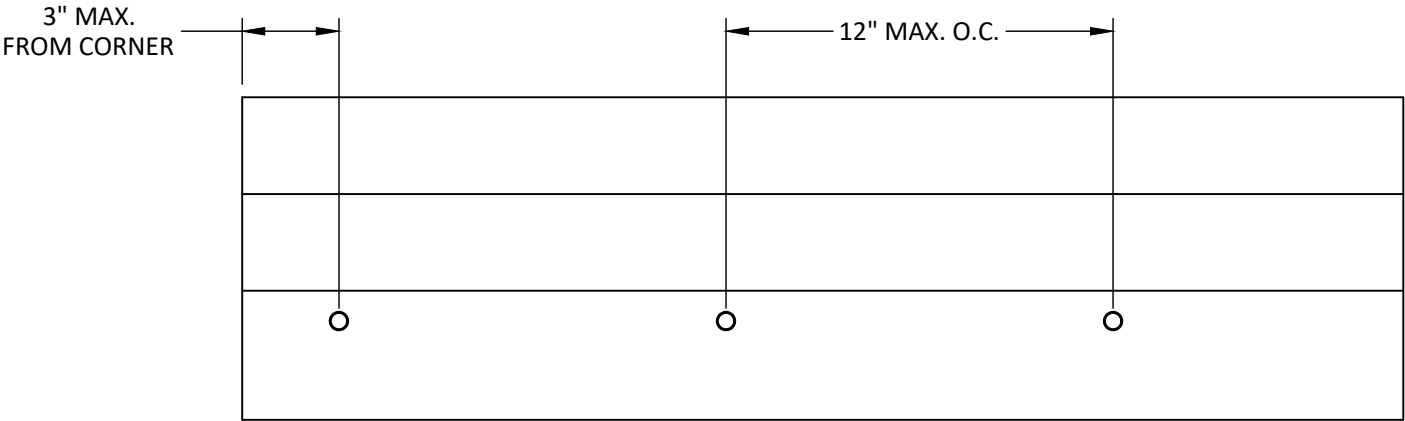


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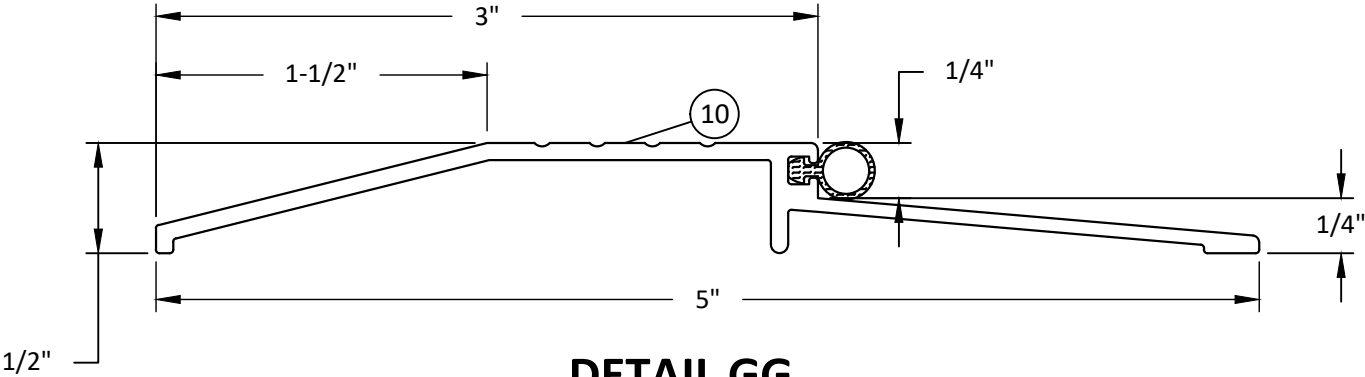
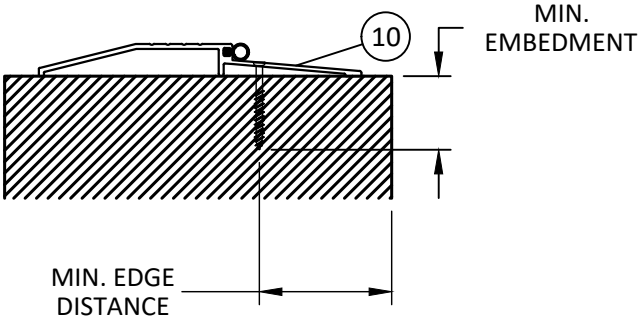
DATE:	06.18.24
DWG. BY:	DI
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DLF004
SHEET:	13

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THRESHOLD ANCHOR SCHEDULE			
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. S.G. = 0.55	#14 WOOD SCREW	1-1/2"	3/4"
CONCRETE: MIN. f'c = 3000 psi	1/4" ITW TAPCON	1-1/4"	2-1/2"



DETAIL GG
NGP 950N THRESHOLD



4115 BRODEUR STREET
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TITLE: OUTSWING DOUBLE &
SINGLE FLUSH STEEL DOOR
(HVHZ) (IMPACT)

THRESHOLD DETAIL &
ANCHOR LAYOUT

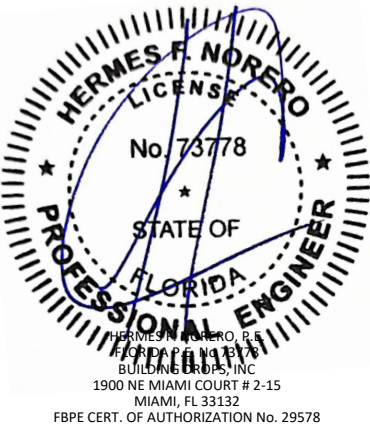
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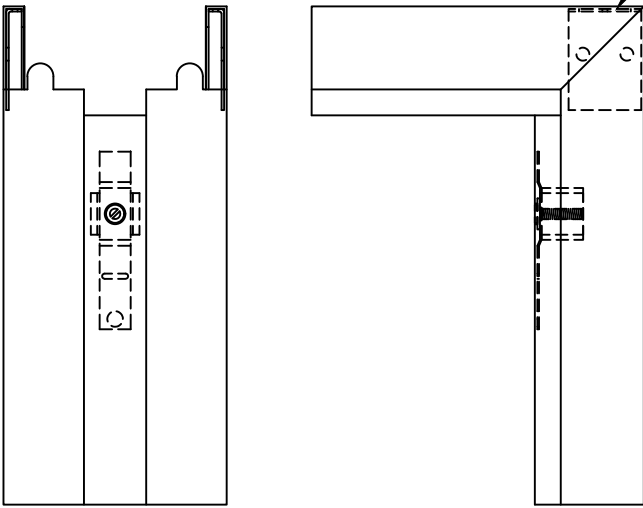
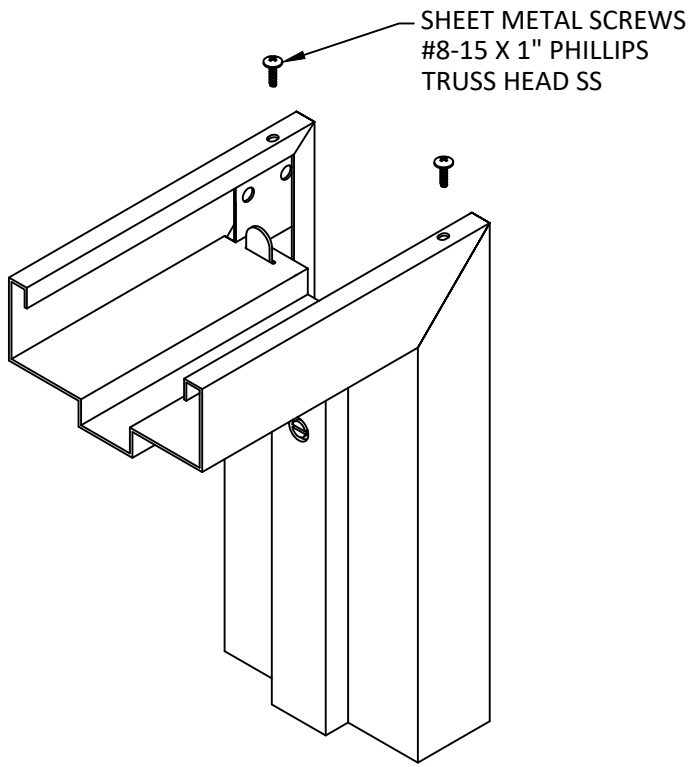
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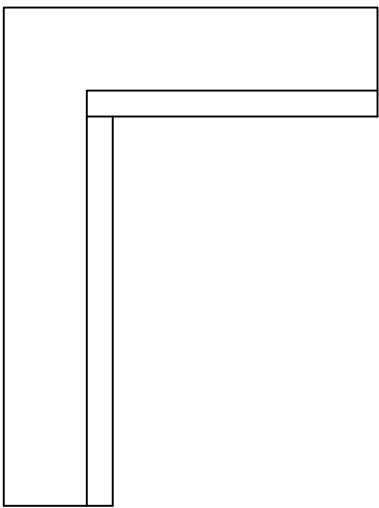
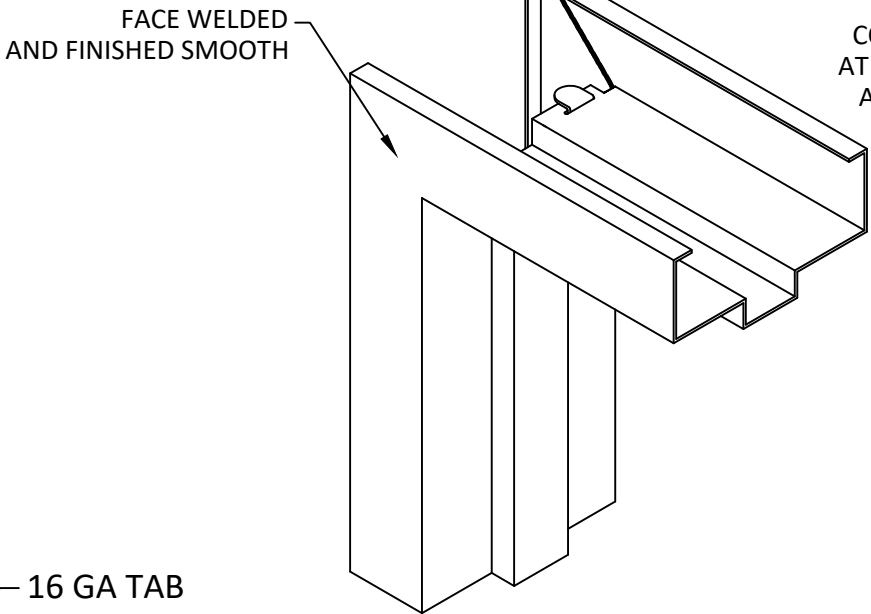
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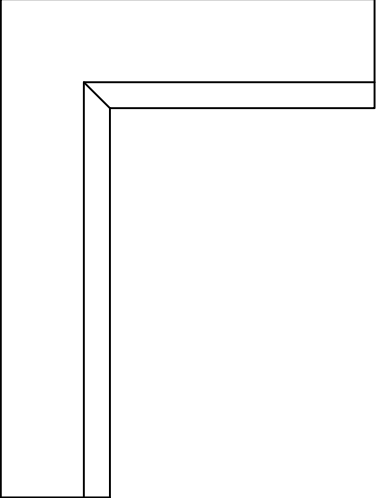
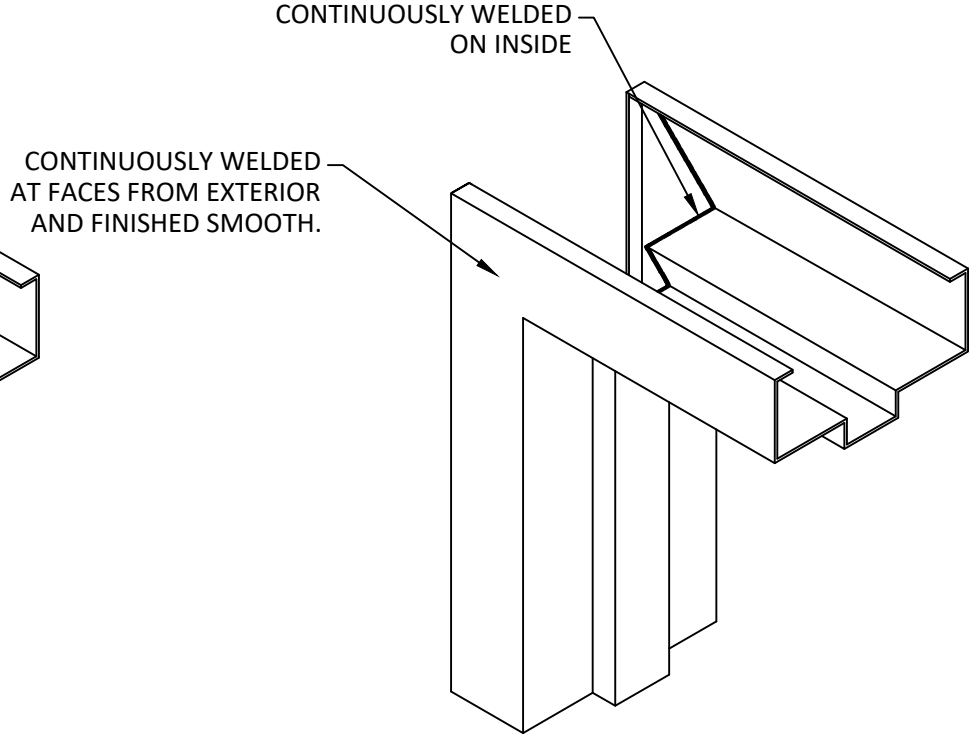
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DETAIL HH
KNOCK DOWN CORNER CONSTRUCTION



DETAIL II
FACE WELDED CORNER CONSTRUCTION



DETAIL JJ
FULLY WELDED CORNER CONSTRUCTION



4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

TITLE:
OUTSWING DOUBLE &
SINGLE FLUSH STEEL DOOR
(HVHZ) (IMPACT)

CORNER CONSTRUCTION

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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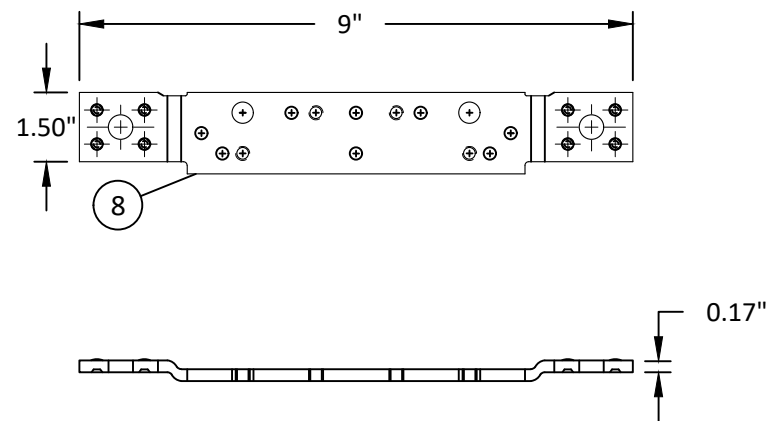
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SCALE: NTS

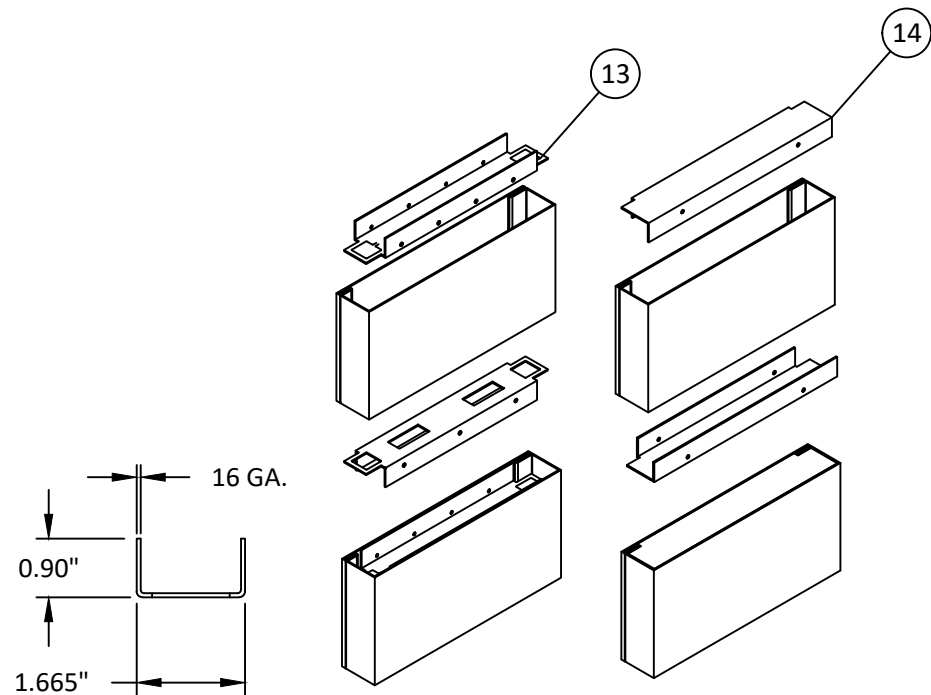
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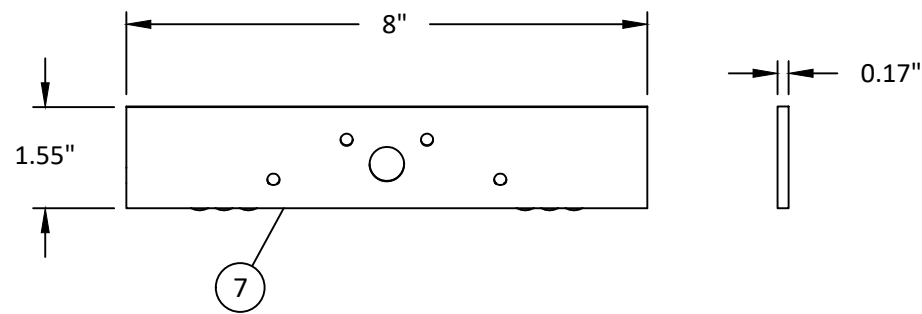
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DETAIL KK
FRAME HINGE REINFORCEMENT

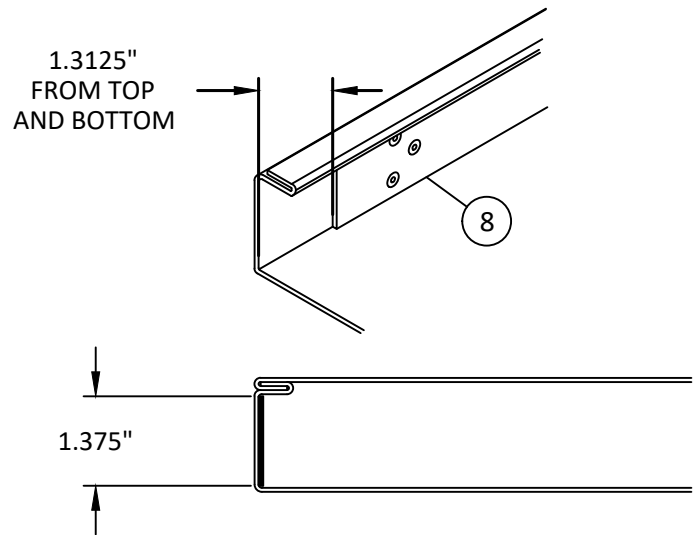


DETAIL MM
END CHANNEL REINFORCEMENTS

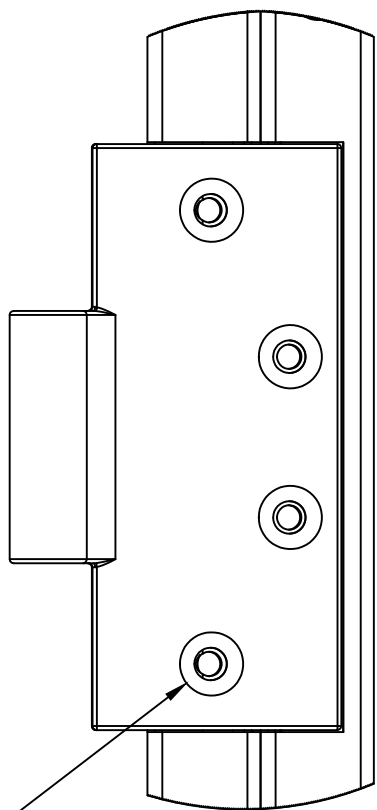


DETAIL LL
DOOR HINGE REINFORCEMENT
AND HINGE DETAIL

ATTACHED WITH FOUR (4) #12 ASSEMBLY
SCREWS



DETAIL NN
DOOR & FRAME CONTINUOUS HINGE REINFORCEMENT
(OPTIONAL)



4115 BRODEUR STREET
SHERBROOKE, QC J1L1K4
PH: (819) 821-9230 FX: (819) 569-5928

TITLE: OUTSWING DOUBLE &
SINGLE FLUSH STEEL DOOR
(HVHZ) (IMPACT)

REINFORCEMENTS

PREPARED BY: BUILDING DROPS, INC.

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MIAMI, FL 33132
PH: (954) 399-8478
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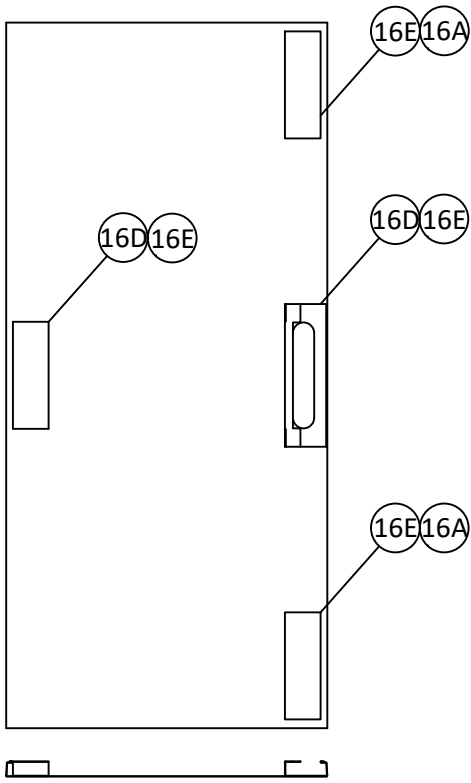
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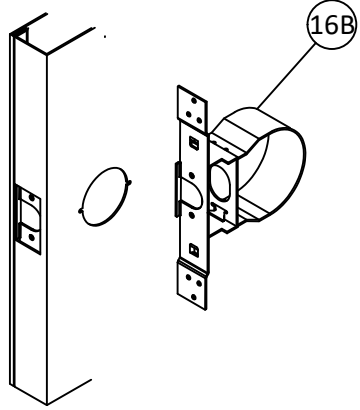
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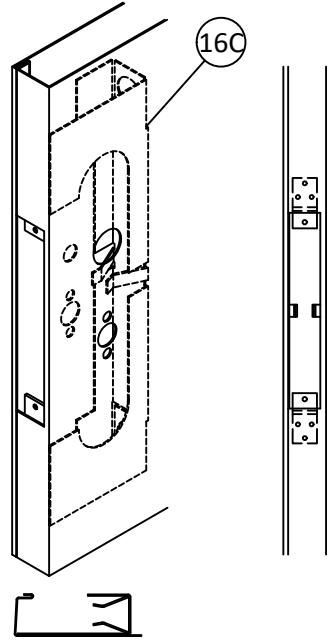
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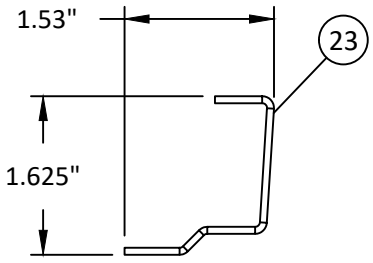
DETAIL OO
RIM EXIT DEVICE AND SURFACE VERTICAL ROD
LOCK REINFORCEMENT



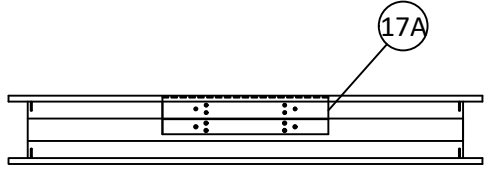
DETAIL PP
CYLINDRICAL LOCK REINFORCEMENT



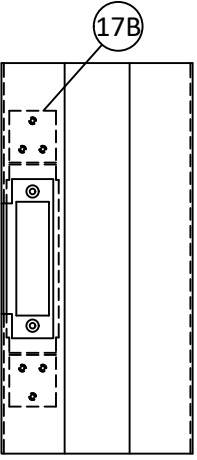
DETAIL QQ
MORTISE LOCK REINFORCEMENT



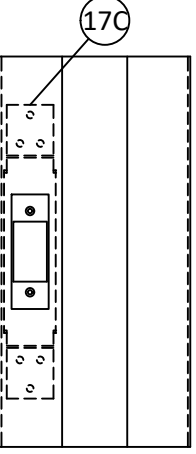
DETAIL RR
LOCK STILE REINFORCEMENT



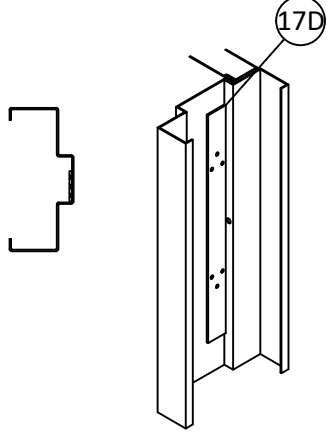
DETAIL SS
SURFACE BOLT
STRIKE REINFORCEMENT



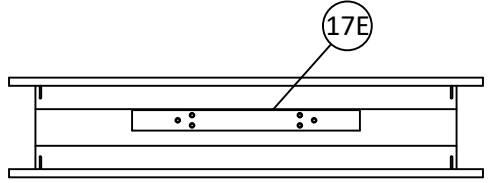
DETAIL TT
CYLINDRICAL LOCK
STRIKE REINFORCEMENT



DETAIL UU
MORTISE LOCK
STRIKE REINFORCEMENT



DETAIL VV
RIM EXIT DEVICE LOCK
STRIKE REINFORCEMENT



DETAIL WW
SURFACE VERTICAL ROD
LOCK STRIKE REINFORCEMENT

TITLE: OUTSWING DOUBLE &
SINGLE FLUSH STEEL DOOR
(HVHZ) (IMPACT)
REINFORCEMENTS

PREPARED BY: **BUILDING DROPS, INC.**
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BILL OF MATERIALS		
NO.	DESCRIPTION	MATERIAL
1	FRAME - 5-3/4" MIN. DEPTH	16 GA. MIN. A40/A60/G90 GALV. STEEL
1A	OPTIONAL 4" HEADER FRAME - 5-3/4" MIN. DEPTH	16 GA. MIN. A40/A60/G90 GALV. STEEL
2	DOOR LEAF PANEL SKIN	18 GA. MIN. A40/A60/G90 GALV. STEEL SHEETS
3	CORE MATERIAL:	
	A) HONEYCOMB	
	B) POLYSTYRENE	
	C) POLYURETHANE	
	D) STEEL STIFFENED (POLYSTYRENE OR POLYURETHANE)	
4	LOCKING HARDWARE - SEE SHEET 1	
5	SURFACE BOLT - IVES 360 OR SARGENT 998	STEEL
6	4.5" MIN. BUTT HINGES SEE SHEET 1 NOTE 1.6	0.134" MIN. STEEL/BRASS
	OPTIONAL CONTINUOUS HINGE SEE SHEET 1 NOTE 1.6	ALUMINUM
7	DOOR HINGE REINFORCEMENTS	7 GA. STEEL
8	FRAME HINGE REINFORCEMENT	3/16" X 10" - 7 GA. STEEL
9	JAMB ANCHORS SEE SHEET 10 & 11	
	Z	18 GA. MIN. STEEL
	COMBINATION WOOD/STEEL STUD	
	EXISTING WALL ANCHOR (EWA)	
	EXISTING WALL ANCHOR (EWA) - TUBE	16 GA. MIN. STEEL
	MASONRY WIRE	-
	MASONRY T	-
	ADJUSTABLE/WELDED JAMB BASE	12 GA. STEEL
10	NGP 950N THRESHOLD WITH BUMPER GASKET	1/16" MIN. ALUMINUM
11	WEATHERSTRIPPING	
	A) NGP 16A RAIN DRIP	6063-T5 ALUMINUM
	B) NGP 331 DOOR SHOE	6063-T5 ALUMINUM / PPE / TPV
	C) NGP 200NA DOOR SWEEP	6063-T5 ALUMINUM / EPDM RUBBER / PPE
	D) NGP 137NA PERIMETER SEAL	
	E) NGP 5050 BULB SEAL	SILOXANE
12	CAULK	SILICONE OR BUTYL RUBBER
13	ST END CHANNEL	16 GA. STEEL
14	FWC END CHANNEL	16 GA. STEEL
15	HORIZONTAL REIN. CHANNELS	STEEL
16	DOOR LOCK REINFORCEMENT SEE SHEET 17	
	A) SURFACE BOLT REINFORCEMENT	16 GA. MIN. STEEL
	B) CYLINDRICAL LOCK REINFORCEMENT	16 GA. MIN. STEEL
	C) MORTISE LOCK REINFORCEMENT	16 GA. MIN. STEEL
	D) RIM EXIT DEVICE REINFORCEMENT	16 GA. MIN. STEEL
	E) SURFACE VERTICAL RODS REINFORCEMENT	16 GA. MIN. STEEL

17	FRAME LOCK STRIKE REINFORCEMENT SEE SHEET 17	
	A) SURFACE BOLT STRIKE REINFORCEMENT	16 GA. MIN. STEEL
	B) CYLINDRICAL STRIKE REINFORCEMENT	16 GA. MIN. STEEL
	C) MORTISE STRIKE REINFORCEMENT	16 GA. MIN. STEEL
	D) RIM EXIT STRIKE REINFORCEMENT	16 GA. MIN. STEEL
	E) SURFACE VERTICAL ROD STRIKE REINFORCEMENT	16 GA. MIN. STEEL
18	FLAT ASTRAGAL	STEEL
	Z ASTRAGAL	STEEL
22	VON DUPRIN HH9954 MULLION	-
	CORBIN RUSSWIN FE707A MULLION	-
	HAGER 4500 MULLION	
23	LOCK STILE REINFORCEMENT	STEEL
24	IVES 698/U698 DOOR VIEWER	BRASS

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TITLE: OUTSWING DOUBLE & SINGLE FLUSH STEEL DOOR (HVHZ) (IMPACT)

BILL OF MATERIALS

©: BUILDING DROPS, INC.

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MIAMI, FL 33132
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