

DETEX CORPORATION

VALUE SERIES HV40, ADVANTEX H10 & H40 RIM PANIC EXIT DEVICE VALUE SERIES HV50, ADVANTEX H20 & H50 SURFACE VERTICAL ROD "STEEL DOOR ASSEMBLY #1"

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE INCLUDING PROVISIONS SET FORTH FOR HIGH-VELOCITY HURRICANE ZONES (HVHZ).
2. STRIKES, HINGES, AND ALL APPLICABLE REINFORCEMENTS AS REQUIRED ON DETAIL DRAWING IN THIS APPROVAL.
3. LOCKING HARDWARE SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. ALL FASTENERS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
5. STEEL COMPONENTS SHALL BE COATED OR COMPLY WITH CORROSION RESISTANCE PROTECTION IN CONFORMANCE WITH REQUIREMENTS OF CHAPTER 22 OF THE FBC.

LIMITATIONS OF USE:

1. PANIC EXIT HARDWARE IS AN APPROVED COMPONENT TO BE USED AS AN EQUAL ALTERNATIVE TO THE CORRESPONDING APPROVED LOCKING DEVICES IN THE STEEL OUTSWING DOORS, HOLDING CURRENT APPROVALS. DOOR CONSTRUCTION SHALL BE EQUIVALENT OR BETTER THAN THAT SPECIFIED HEREIN.
2. HARDWARE MAY BE USED WITH DOORS UTILIZING A POLYSTYRENE FOAM CORE, UNDER SEPARATE APPROVAL.
3. THE LOWER DESIGN PRESSURE OF DOOR OR THE COMPONENT APPROVAL HEREIN SHALL CONTROL FOR ENTIRE ASSEMBLY.
4. ELECTRICAL/ELECTRONIC FUNCTION AND INSTALLATION OTHER THAN SELF CONTAINED ELECTRONIC DEVICES ARE NOT PART OF THIS APPROVAL AND MUST BE REVIEWED BY AUTHORITY HAVING JURISDICTION(AHJ) IN THE AREA.
NOTE: SELF CONTAINED MEANS THERE IS NO EXTERNAL WIRING:
A) FUNCTION OPTIONS THAT ARE AVAILABLE AS SELF CONTAINED AND BATTERY POWERED:
EA (WHEN NOT POWERED EXTERNALLY), EB, EBxW.
B) FUNCTION OPTIONS THAT ARE SUBJECT TO AHJ REVIEW:
EA, EAxEX, EAxEXV, ED, EDxEX, EX, EXV, EXxW, EXVxW, EXxES, EE, EExER, EEX, EEXxW, EBxEXxW, EBxEXVxW, ER, ERxW, ERxEX, ERxEXV, ERxEXxW, ES, EI, LX, LXV.
5. COMPLIANCE WITH BUILDING EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES
2	ELEVATIONS & DESIGN PRESSURE TABLES(SINGLE DOOR)
3	ELEVATIONS & DESIGN PRESSURE TABLES(DOUBLE DOOR)
4	HORIZONTAL AND VERTICAL SECTIONS(DOUBLE DOOR)
5	HORIZONTAL AND VERTICAL SECTIONS(DOUBLE SINGLE)
6	HV40, H10, H40 RIM W/ H90R MULLION
7	HV50, H20, H50 SURFACE VERTICAL ROD (SVR)
8	BILL OF MATERIALS

MISSILE IMPACT RATING
LARGE & SMALL MISSILE IMPACT RATED



302 DETEX DR.
NEW BRAUNFELS, TX 78130

PH: (830) 629-2900
FX: (800) 729-3839

DETEX CORPORATION
EXIT LOCKING HARDWARE

GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

PH: (954)399-8478

FAX: (954)744-4738

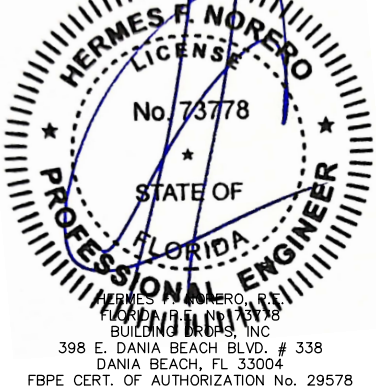
WEB: www.buildingdrops.com



REMARKS	BY	DATE
7TH FBC CODE CHANGE	NUS	09/20
NOTES UPDATE	LL	08/21
8TH FBC CODE CHANGE	MG	06/23

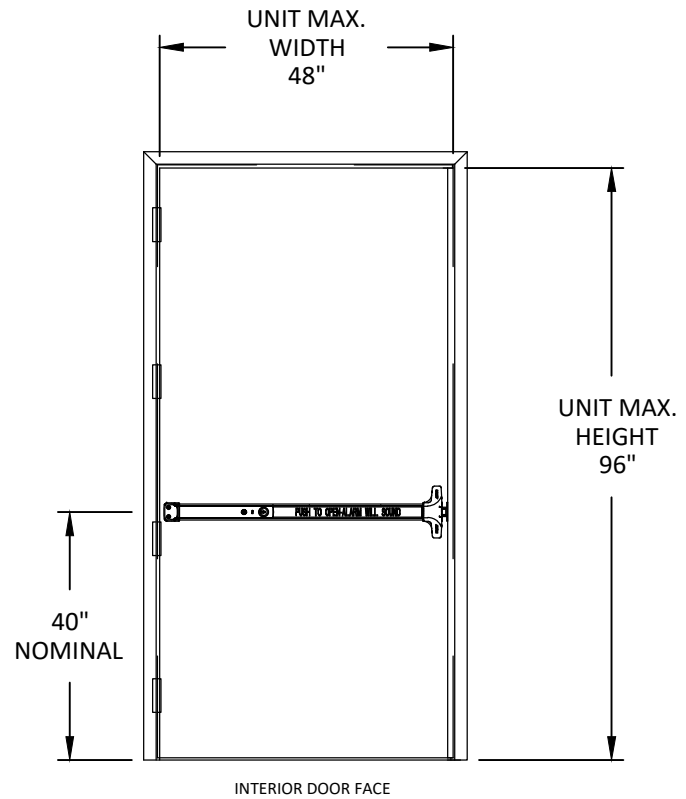
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.09.10 16:48:58 -0400



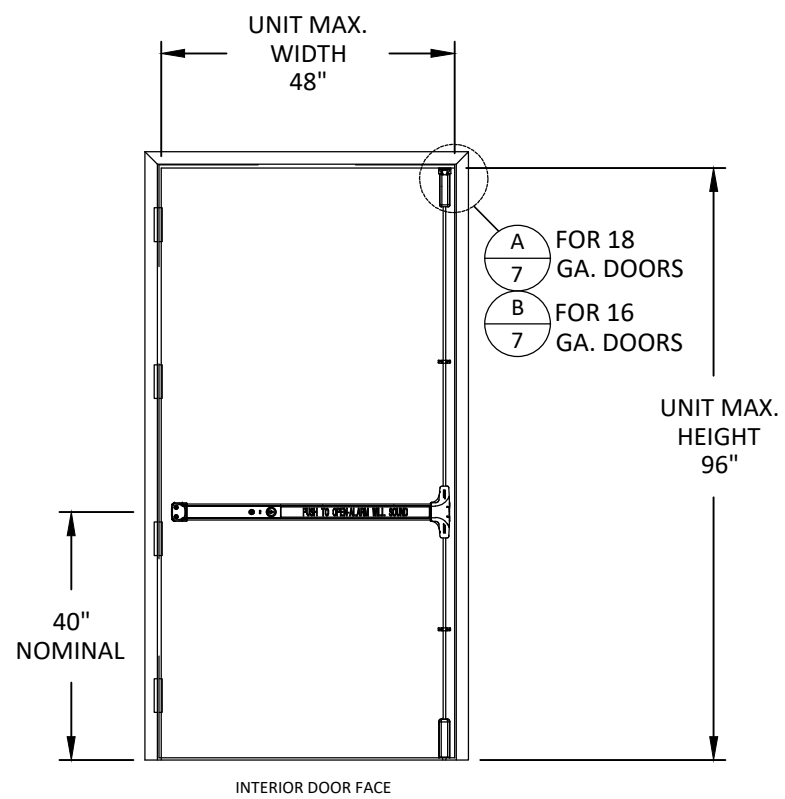
FL #:	FL19181
DATE:	01.13.2020
DWG. BY:	CHK. BY:
RV	HFN
SCALE:	NTS
DWG. #:	DTX005
SHEET:	1 OF 8

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DOOR CONSTRUCTION	SIZE	DESIGN PRESSURE	HARDWARE
18 GAUGE	48" X 96"	+/- 50 PSF	HV40 RIM W/ H90R MULLION
16 GAUGE	48" X 96"	+/- 60 PSF	HV40 RIM W/ H90R MULLION

NOTE: REFER TO SHEET 6 FOR ASSEMBLY AND FURTHER DETAILS



DOOR CONSTRUCTION	SIZE	DESIGN PRESSURE	HARDWARE
18 GAUGE	48" X 96"	+50 / -40 PSF	HV50 SVR
18 GAUGE	42" X 96"	+50 / -45 PSF	HV50 SVR
18 GAUGE	36" X 96"	+50 / -50 PSF	HV50 SVR
16 GAUGE	48" X 96"	+60 / -55 PSF	HV50 SVR
16 GAUGE	42" X 96"	+60 / -60 PSF	HV50 SVR
18 GAUGE	42" X 84"	+60 / -50 PSF	HV50 SVR
18 GAUGE	36" X 84"	+60 / -58 PSF	HV50 SVR

NOTE: REFER TO SHEET 7 FOR ASSEMBLY AND FURTHER DETAILS



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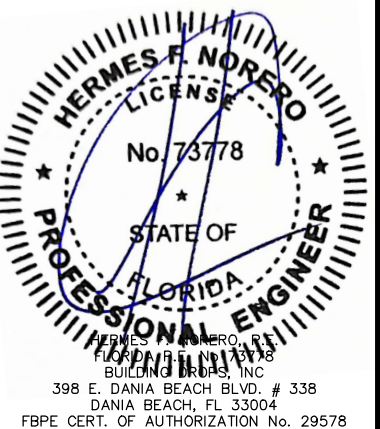
TITLE: DETEX CORPORATION
EXIT LOCKING HARDWARE
ELEVATIONS & DESIGN
PRESSURE TABLES
(SINGLE DOOR)

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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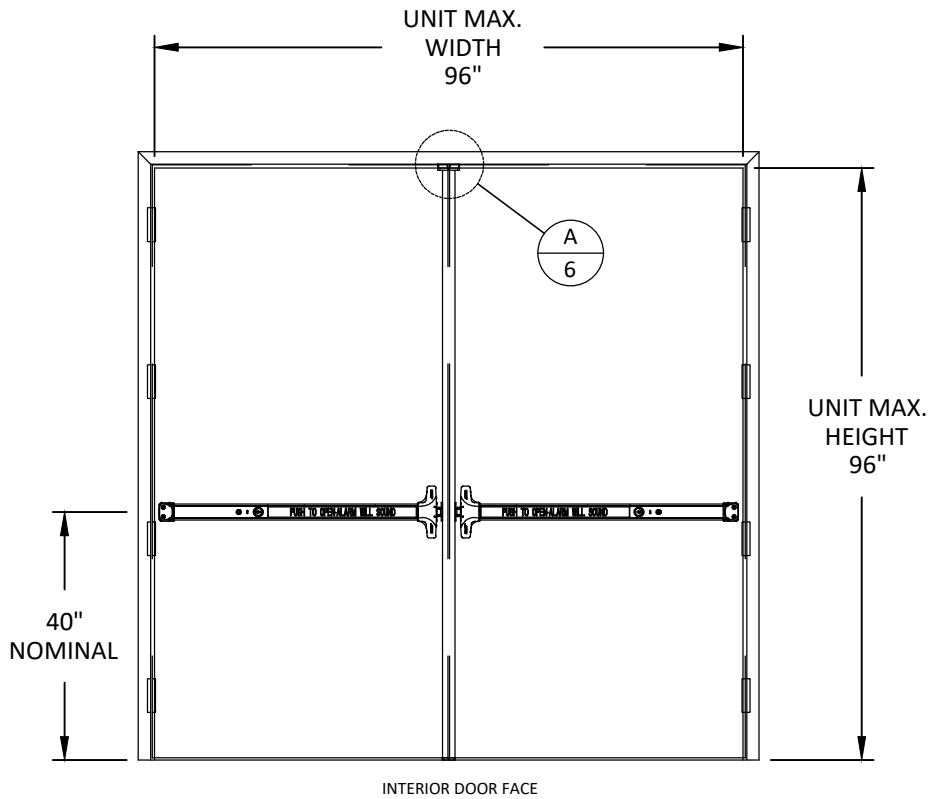
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SCALE: NTS

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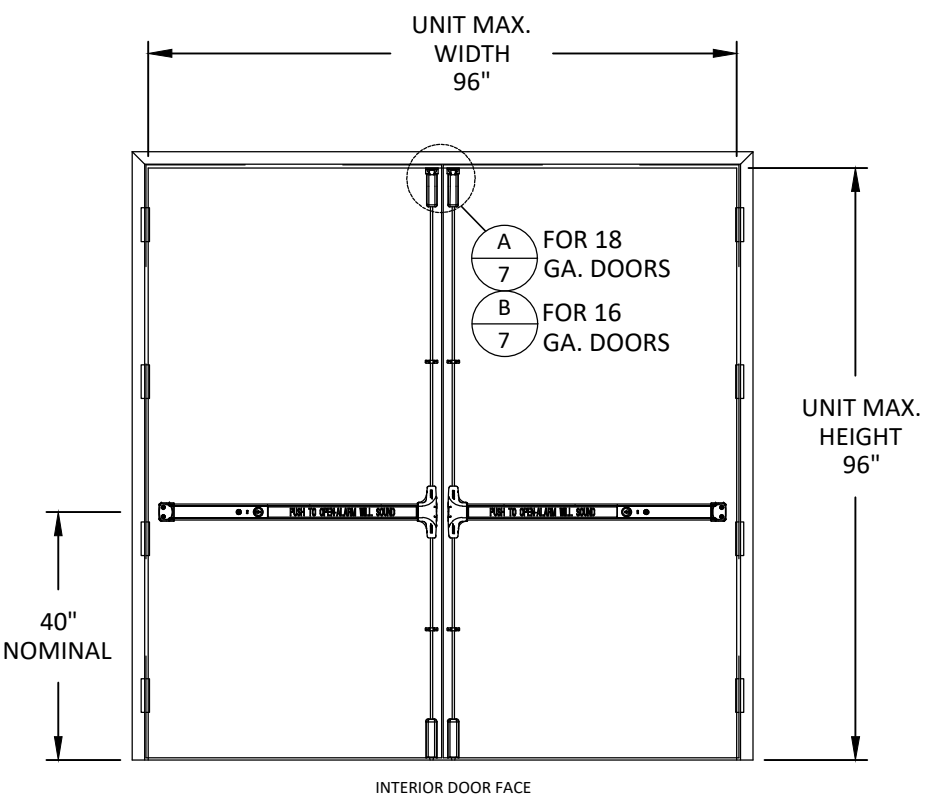
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DOOR CONSTRUCTION	SIZE	DESIGN PRESSURE	HARDWARE
18 GAUGE	96" X 96"	+/- 50 PSF	HV40 RIM W/ H90R MULLION
16 GAUGE	96" X 96"	+/- 60 PSF	HV40 RIM W/ H90R MULLION

NOTE: REFER TO SHEET 6 FOR ASSEMBLY AND FURTHER DETAILS



DOOR CONSTRUCTION	SIZE	DESIGN PRESSURE	HARDWARE
18 GAUGE	96" X 96"	+50 / -40 PSF	HV50 SVR
18 GAUGE	84" X 96"	+50 / -45 PSF	HV50 SVR
18 GAUGE	72" X 96"	+50 / -50 PSF	HV50 SVR
16 GAUGE	96" X 96"	+60 / -55 PSF	HV50 SVR
16 GAUGE	84" X 96"	+60 / -60 PSF	HV50 SVR
18 GAUGE	84" X 84"	+60 / -50 PSF	HV50 SVR
18 GAUGE	72" X 84"	+60 / -58 PSF	HV50 SVR

NOTE: REFER TO SHEET 7 FOR ASSEMBLY AND FURTHER DETAILS

DETEX

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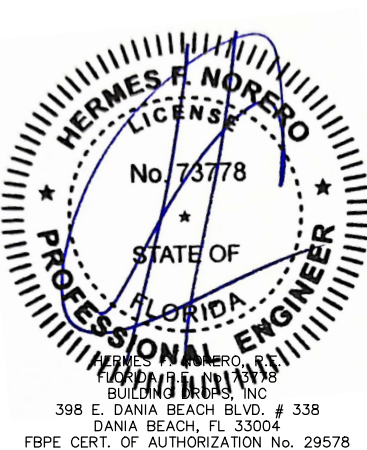
TITLE: DETEX CORPORATION
EXIT LOCKING HARDWARE
ELEVATIONS & DESIGN
PRESSURE TABLES
(DOUBLE DOOR)

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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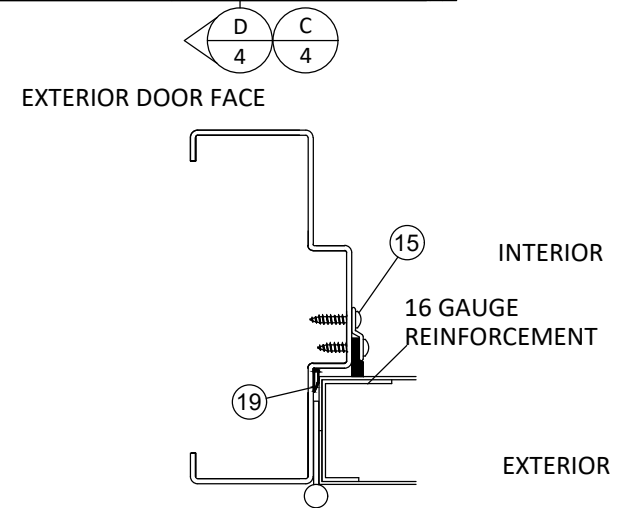
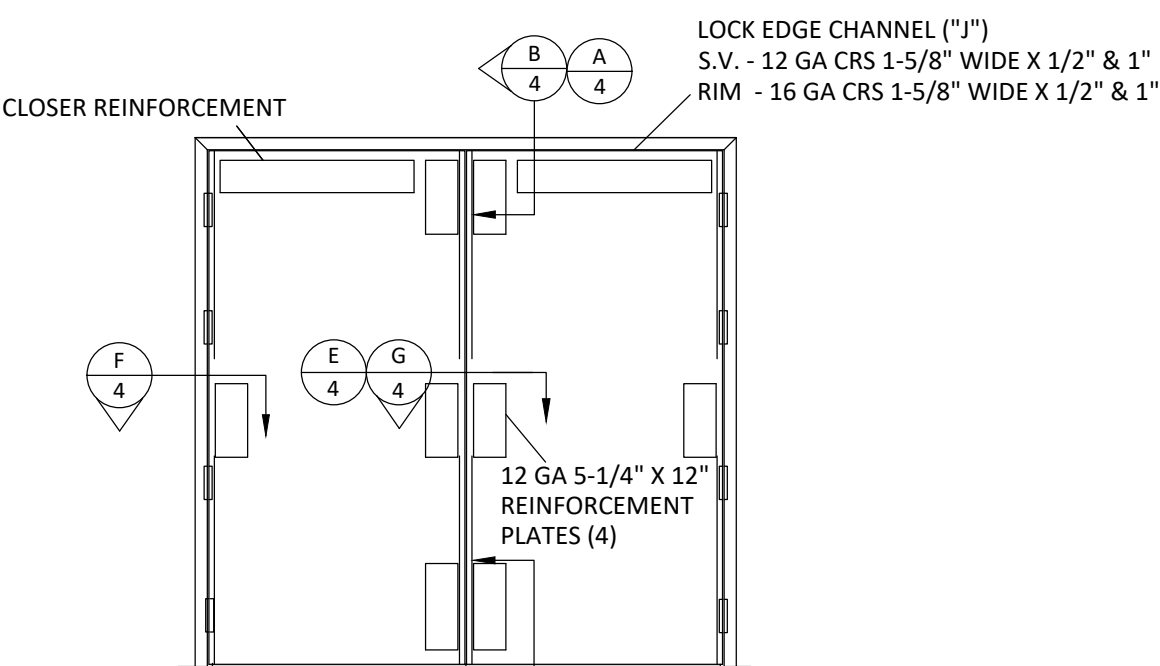
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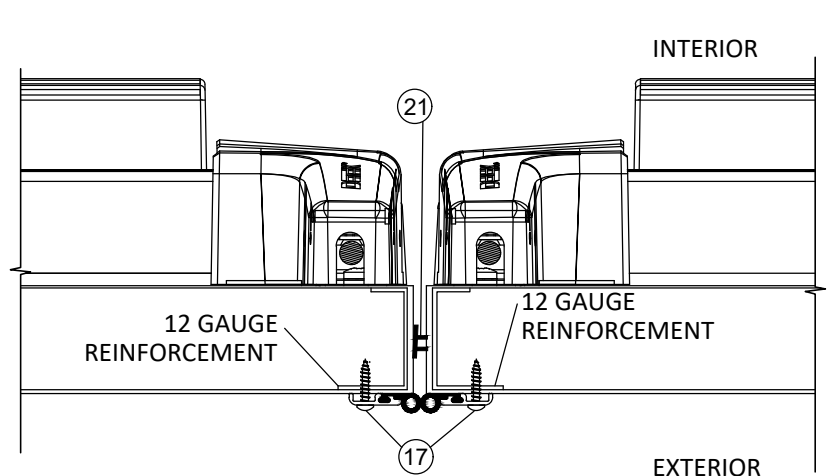
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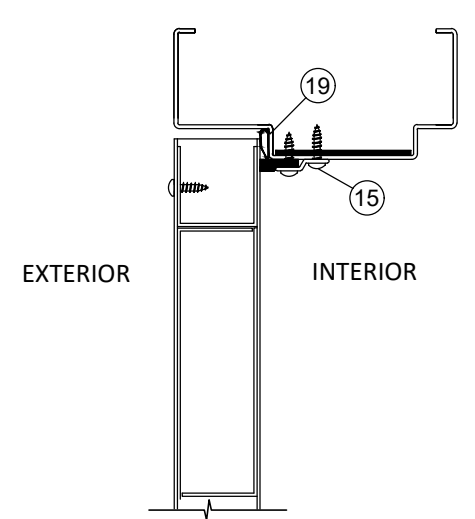
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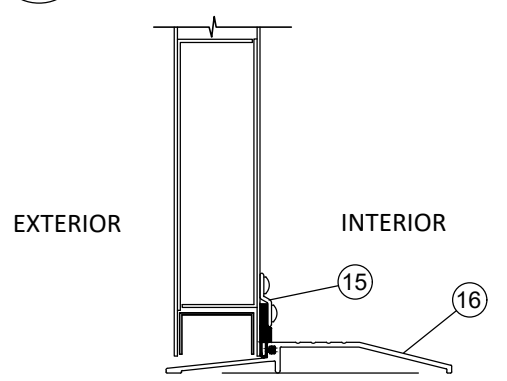
F
4 HORIZONTAL SECTION
HINGE JAMB (TYPICAL ON BOTH JAMBS)



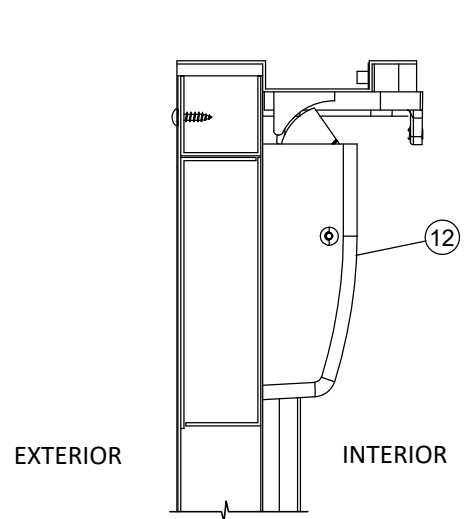
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4 HORIZONTAL SECTION
HV50 SURFACE VERTICAL ROD MEETING STILE



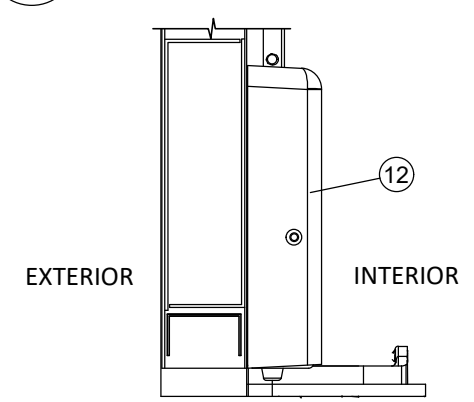
A
4 VERTICAL SECTION
HEAD (HV40 RIM)



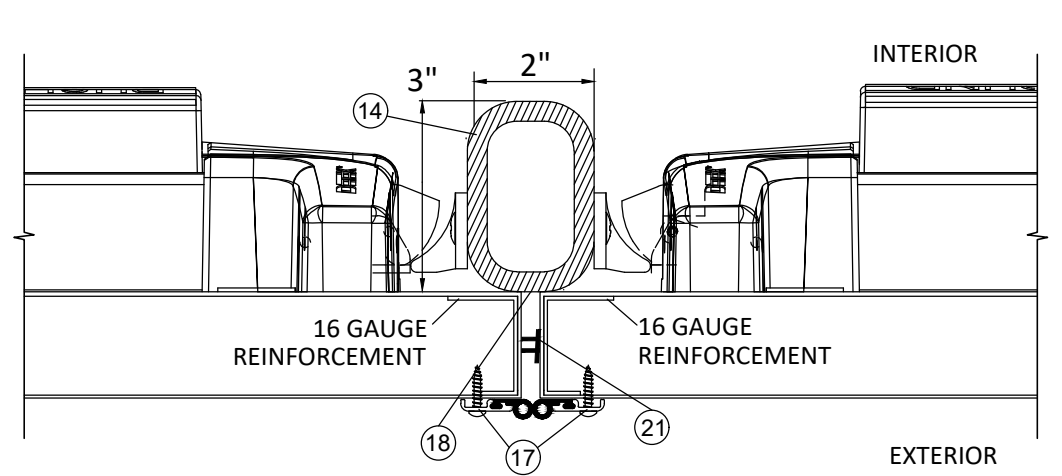
C
4 VERTICAL SECTION
SILL (HV40 RIM)



B
4 VERTICAL SECTION
HEAD (HV50 SVR)



D
4 VERTICAL SECTION
SILL (HV50 SVR)



G
4 HORIZONTAL SECTION
HV40 RIM EXIT W/ H90R MULLION MEETING STILE



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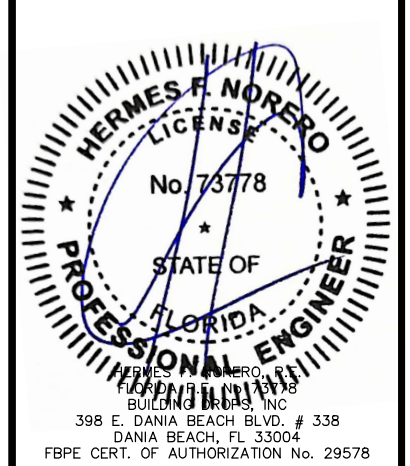
TITLE: DETEX CORPORATION
EXIT LOCKING HARDWARE
HORIZONTAL AND VERTICAL
SECTIONS (DOUBLE DOOR)

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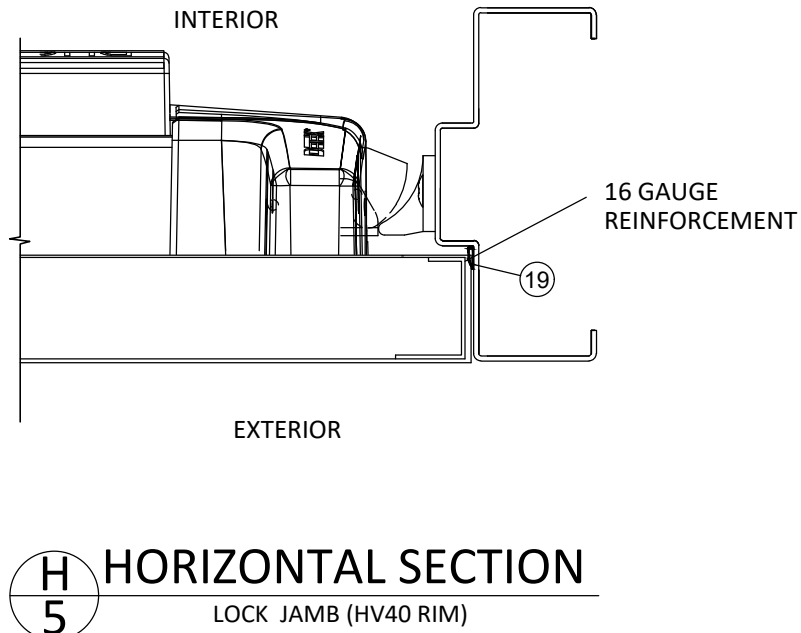
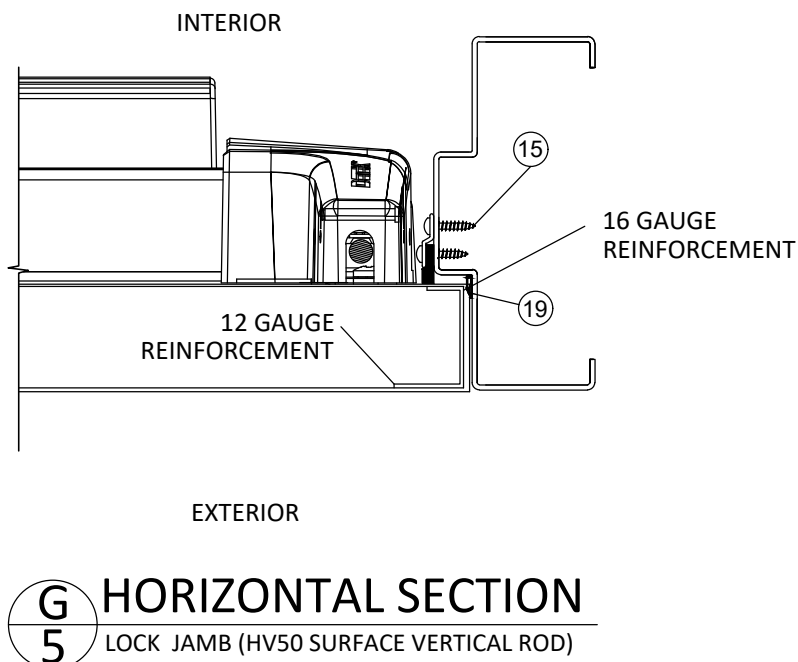
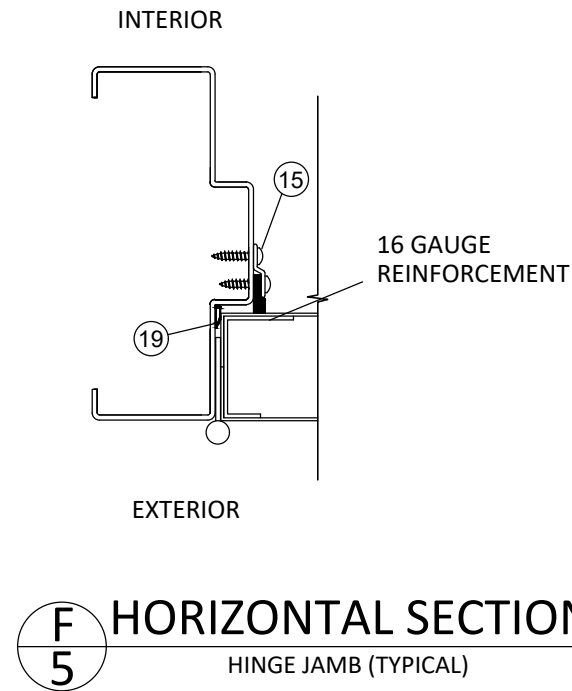
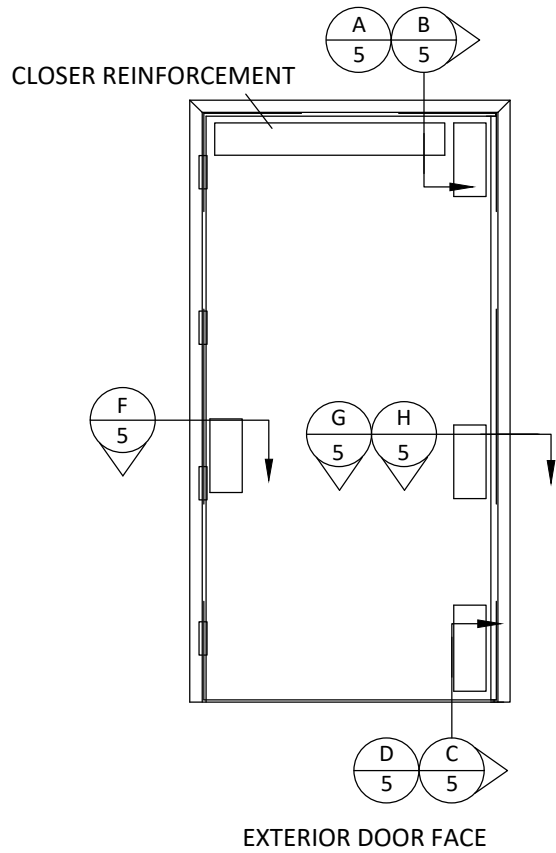


FL #:	FL19181
DATE:	01.13.2020
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DTX005
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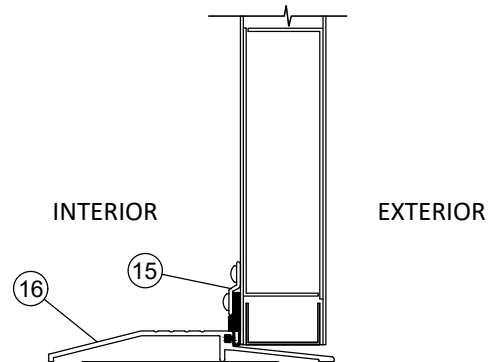
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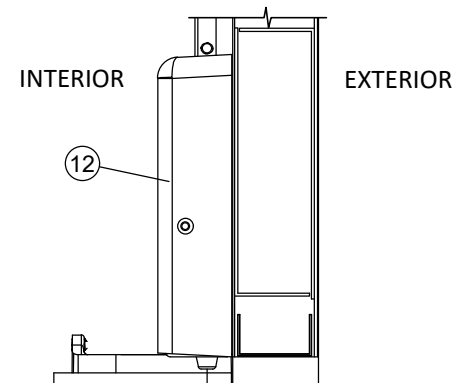
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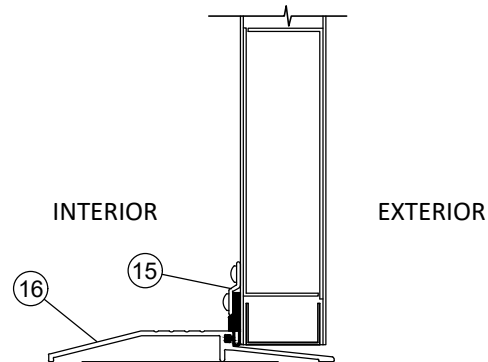
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HEAD (HV40 RIM)



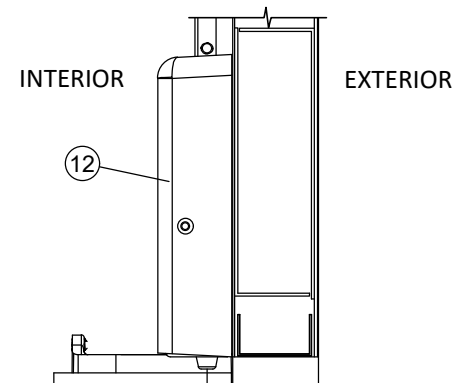
B
5 VERTICAL SECTION
HEAD (HV50 SVR)



C
5 VERTICAL SECTION
SILL (HV40 RIM)



D
5 VERTICAL SECTION
SILL (HV50 SVR)



DETEx

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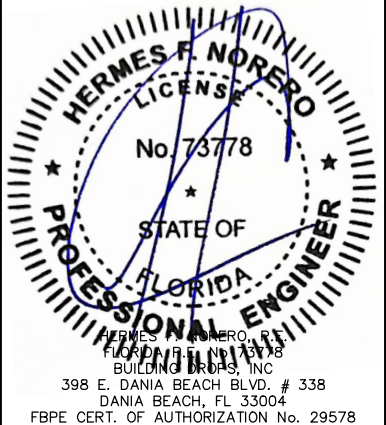
DETEx CORPORATION
EXIT LOCKING HARDWARE
HORIZONTAL AND VERTICAL
SECTIONS (SINGLE DOOR)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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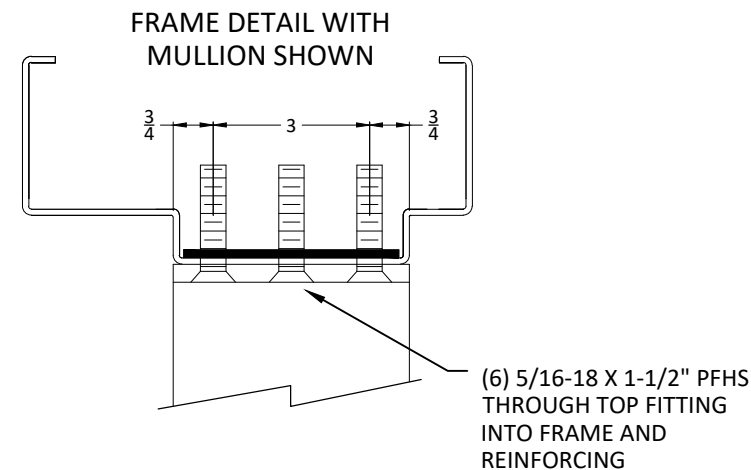
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CHK. BY: **HFN**

SCALE: **NTS**

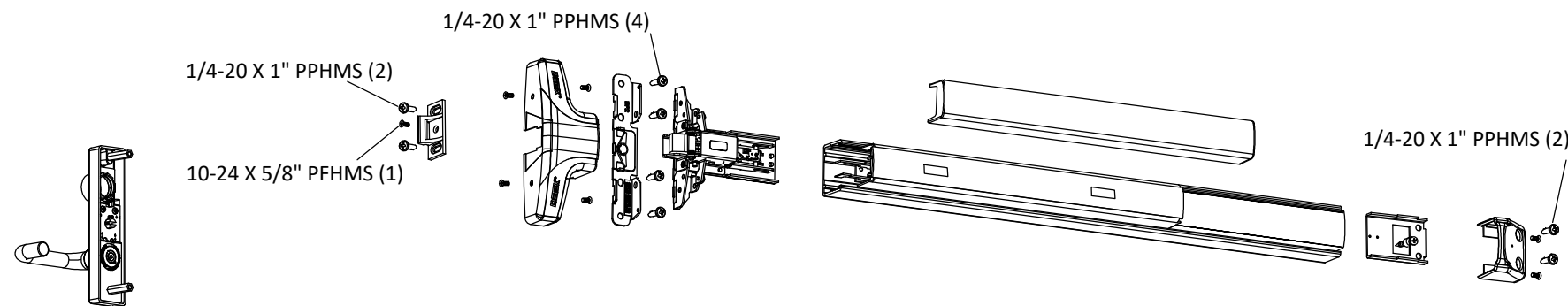
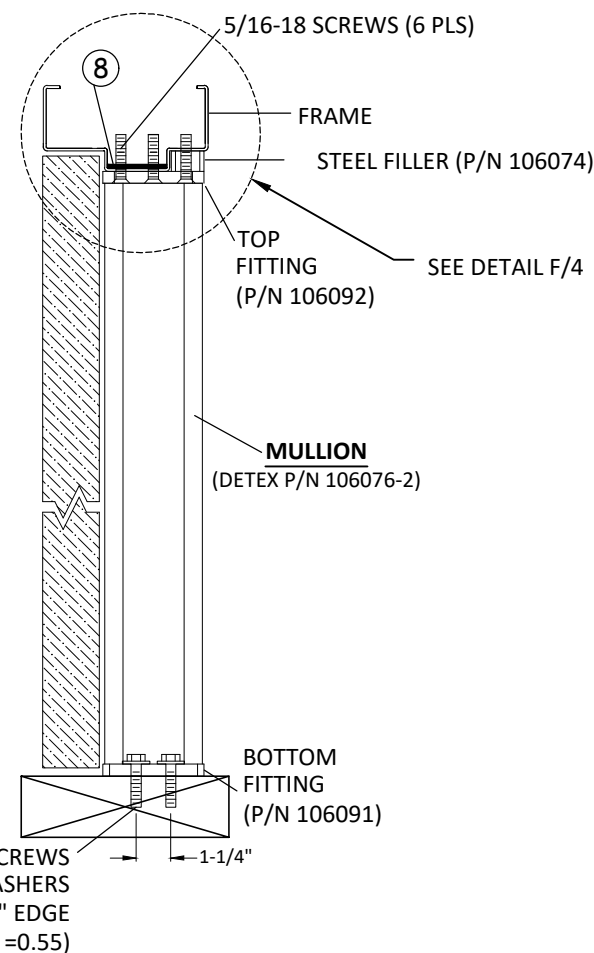
DWG. #: **DTX005**

SHEET:
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OF 8



VERTICAL SECTION

HV40 RIM EXIT W/ H90R MULLION



⑬ HV40 RIM

08DN LEVER TRIM ASSEMBLY

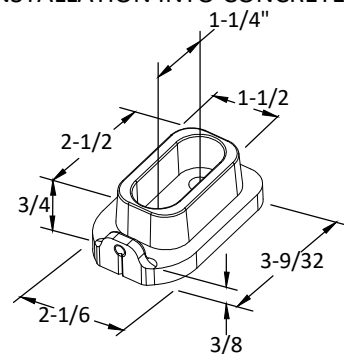
⑪ HV40 RIM

ADVANTECH H10. H40 ALTERNATE

MULLION SECTION

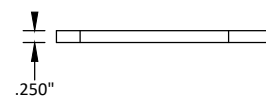
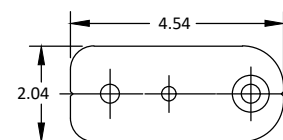
FOR INSTALLATION INTO WOOD

FOR INSTALLATION INTO CONCRETE SEE DETAIL G/4



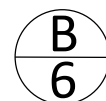
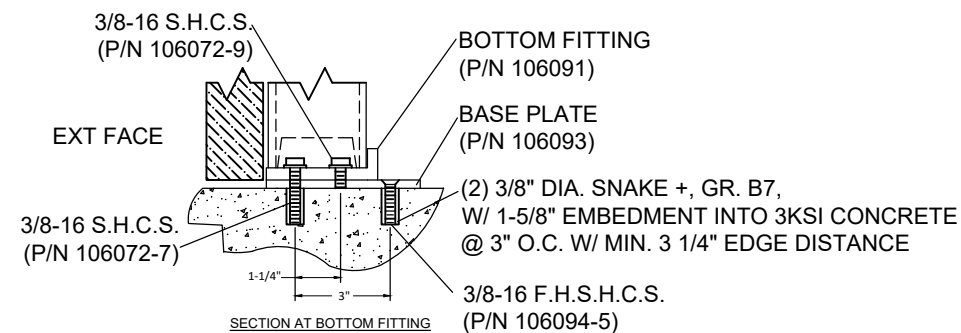
H90R BOTTOM FITTING

(P/N 106091)



BASE PLATE

(P/N 106093)
STAINLESS STEEL



INSTALLATION DETAILS

CONCRETE/MASONRY



302 DETEX DR.
NEW BRAUNFELS, TX 78130

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TITLE: DETEX CORPORATION
EXIT LOCKING HARDWARE

HV40, 10, 40 RIM
W/ H90R MULLION

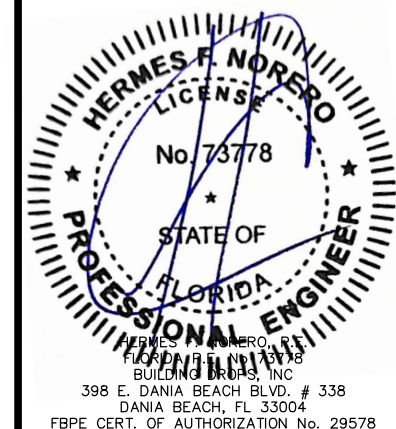
PREPARED BY:

BUILDING DROPS, INC.
3398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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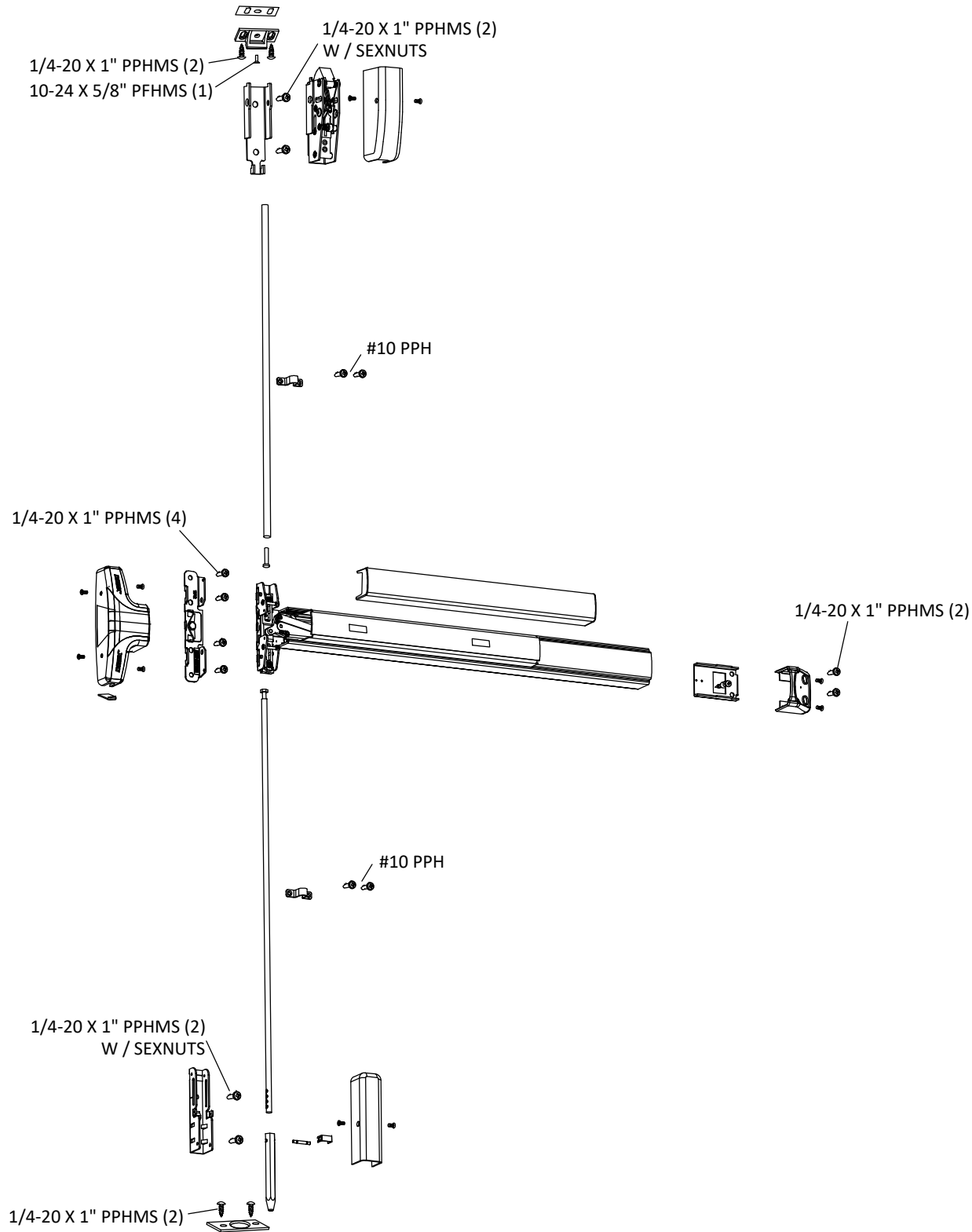
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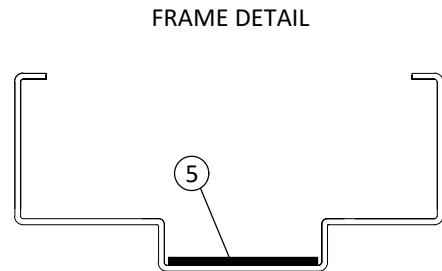
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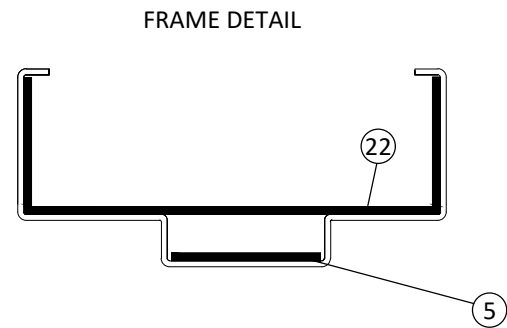
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12 HV50 SVR
ADVANTECH H20, H50 ALTERNATE



A
7 **HORIZONTAL SECTION**
HV50 SURFACE VERTICAL ROD
WITH 18 GA. DOORS



B
7 **HORIZONTAL SECTION**
HV50 SURFACE VERTICAL ROD W/ REINF.
WITH 16 GA. DOORS



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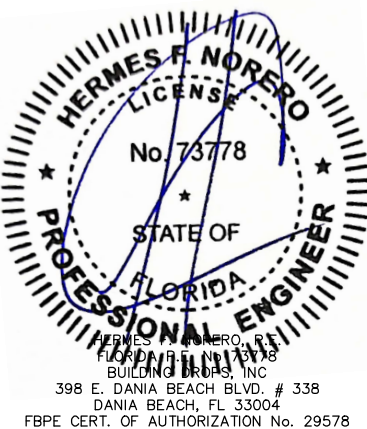
TITLE: DETEX CORPORATION
EXIT LOCKING HARDWARE
HV50, 20, 50
SURFACE VERTICAL ROD (SVR)

PREPARED BY: BUILDING DROPS, INC.
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302 DETEX DR.
NEW BRAUNFELS, TX 78130

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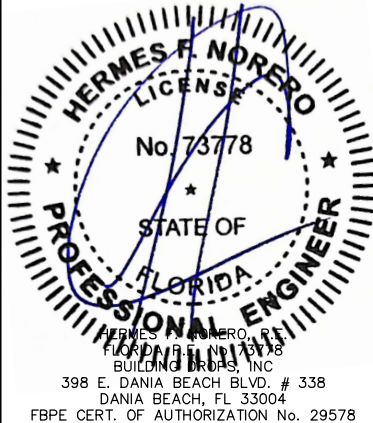
TITLE: DETEX CORPORATION
EXIT LOCKING HARDWARE
BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.
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BILL OF MATERIALS				
ITEM	QTY	DESCRIPTION	MATERIAL	SIZE AND SPECIFICATIONS
1	1	16 GAUGE X 5-3/4" DEPTH FRAME	16 GAUGE, .054 MINIMUM, ALL COMPONENTS OF THIS ITEM, I.E. HEAD, JAMBS, REINFORCEMENTS AND ANCHORS ARE COMMERCIAL COLD ROLLED STEEL (OR OPTIONAL GALVANNEAL STEEL) ASTM A653/A653M, W/ MIN. TENSILE STRENGTH 52 KSI, MIN. YIELD STRENGTH 45 KSI, ELONGATION 40%.	5-3/4" DEPTH X 2" FACE X .054 MIN. THICK
2A 2B 2C	1	18 GAUGE 4-0 X 8-0 DOOR 18 GAUGE 3-6 X 7-0 DOOR 16 GAUGE 4-0 X 8-0 DOOR	18 GAUGE, MINIMUM THICKNESS = 0.045" 18 GAUGE, MINIMUM THICKNESS = 0.045" 16 GAUGE, MINIMUM THICKNESS = 0.054"	1-3/4" THICK
3	3	3/16" THICK DOOR HINGE REINFORCING	HRPO	
4	3	3/16" THICK GAUGE FRAME HINGE REINFORCING	HRPO	
5	1	12 GAUGE FRAME REINFORCEMENT	CRS	12 GAUGE X 2-1/4" X 18" L
6	2	14 GAUGE DOOR SURFACE BOLT REINFORCING	CRS	
7	1	14 GAUGE RIM PANIC DEVICE REINFORCEMENT	CRS	
8	1	HARDWARE MULLION REINFORCEMENT / SOFFIT (12 GAUGE)	CRS	12 GAUGE X 2-3/4" X 18" L
10	AS REQ	HINGES	STEEL	4.5 X 4.5 HEAVYWEIGHT(.134 THICK), ATTACHED TO FRAME WITH (4) 12-24 X 1/2 FHMS
11	1	HV40 RIM PANIC DEVICE (ADVANTECH H10 / H40 ALTERNATE)	SEE DETAIL DRAWINGS	RHR SPECIMEN 1: RIM EXIT DEVICE & O8DN TRIM ATTACHED TO DOOR WITH (7) 1/4-20 X 1" & (2) WITH SEX BOLTS STRIKE INSTALLED WITH (2) 1/4-20 X 1" PPH SCREWS & (1) 10-24 PFH X 5/8 SCREW LHR SPECIMEN 3: RIM EXIT DEVICE ATTACHED TO DOOR WITH (7) 1/4-20 X 1" & (4) WITH SEX BOLTS STRIKE SURFACE INSTALLED WITH (2) 1/4-20 X 1" PPH SCREWS & (1) 10-24 PFH X 5/8 SCREW
12	1	HV50 SVR PANIC DEVICE (ADVANTECH H20 / H50 ALTERNATE)	SEE DETAIL DRAWINGS	RHR SPECIMEN 2: 2 POINT SVR DEVICE & O8DN TRIM ATTACHED TO DOOR WITH (11) 1/4-20 X 1" & (6) SEX BOLTS STRIKE INSTALLED WITH (2) 1/4-20 X 1" PPH SCREWS & (1) 10-24 PFH X 5/8 SCREW LHR SPECIMEN 4: 2 POINT SVR DEVICE ATTACHED TO DOOR WITH (11) 1/4-20 X 1" & (8) SEX BOLTS STRIKE SURFACE INSTALLED WITH (2) 1/4-20 X 1" PPH SCREWS & (1) 10-24 PFH X 5/8 SCREW
13	1	TRIM , O8DN	DETEX P/N 101446	O8DN TRIM WITH KEY CYLINDER, THRU BOLTED TO DEVICE WITH 1/4-20 SCREWS
14	1	DETEX REMOVABLE MULLION, H90R DETEX P/N 106076-2	1/4" WALL ASTM A500 STEEL, GRADE B, SHAPED STRUCTURAL TUBING	2"x3" X 1/4" WALL TUBE, WITH TOP AND BOTTOM FITTINGS
15	4	EDGE SEAL (NATIONAL GUARD PRODUCTS #120NA)	NEOPRENE SEAL WITH EXTRUDED ALUMINUM HOLDER	7/8" EXTRUSION X 1/4 X 3/16 SEAL
16	1	THRESHOLD (NATIONAL GUARD PRODUCTS #950N)	EXTRUDED ALUMINUM (6063-T5 ALLOY)	1/2" X 5" ADA COMPLIANT ALUMINUM BUMPER THRESHOLD, ATTACHED TO BUCK WITH #10 X 1-1/4" PFH LAG SCREWS
17	2	SPLIT ASTRAGAL (NATIONAL GUARD PRODUCTS 137NA)	NEOPRENE SPLIT ASTRAGAL SEAL WITH EXTRUDED HOLDER	.31 ROUND LIP WITH .875 HOLDER
18	AS REQ	MULLION SEAL (NATIONAL GUARD PRODUCTS 5100S)	NEOPRENE SPONGE SEAL	3/32" X 1-1/8" WIDE
19	AS REQ	WEATHER STRIP (NATIONAL GUARD PRODUCTS 5050B)	SILICONE: SELF ADHESIVE SILICONE FIRE AND SMOKE SEAL	1/2" X 1/4" THICKNESS
20	AS REQ	CAULKING: GE SILICONE II	N/A	AS REQUIRED
21	AS REQ	WEATHER STRIP (NATIONAL GUARD PRODUCTS 5070B)	SILICONE: SELF ADHESIVE DOUBLE SHARK FIN SMOKE SEAL	1/2" X 3/16" THICKNESS
22	AS REQ	14 GAUGE FRAME REINFORCEMENT	STEEL	26" LONG, 14 GAUGE CHANNEL

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.



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FLORIDA
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL19181

DATE: 01.13.2020

DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

DWG. #: DTX005

SHEET:

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OF 8