

CECO DOOR PRODUCTS
DIVISION OF ASSA ABLOY DOOR GROUP, INC.

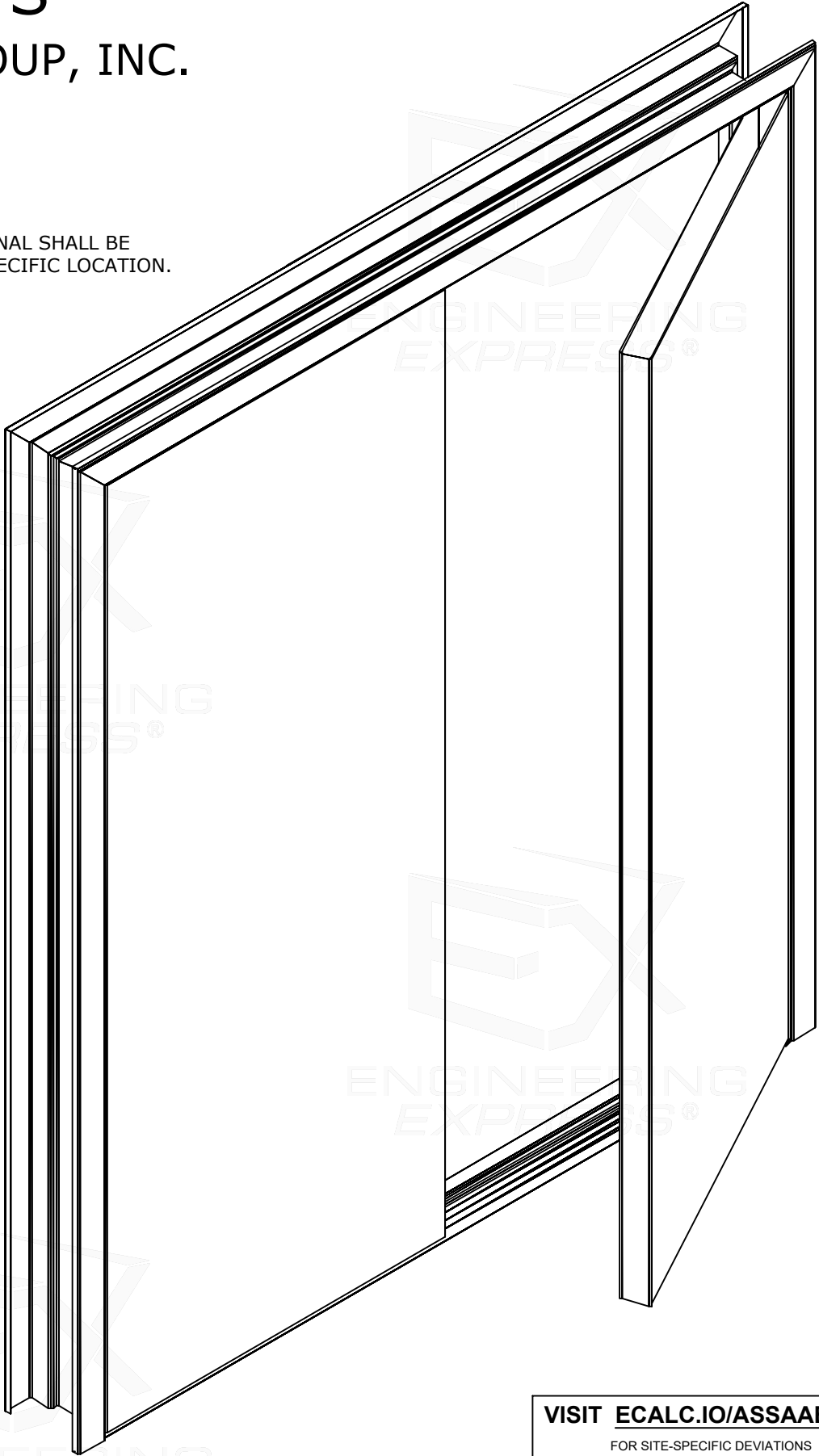
CECO FLUSH PAIRS OF DOORS
LARGE MISSILE IMPACT (LMI) - LEVEL "D"
HVHZ

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

MAXIMUM ALLOWABLE
DESIGN PRESSURES (ASD): AS NOTED IN DESIGN
TABLE

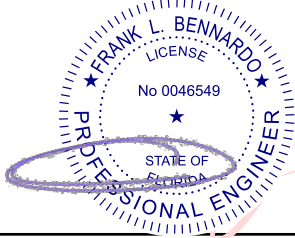
GENERAL NOTES:

1. THE SYSTEM DESCRIBED HEREIN COMPLY AND HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 9TH EDITION (2026)
2. FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
3. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY 1.5 SAFETY FACTOR
4. WIND LOAD DURATION FACTOR Cd = 1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
5. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO EXISTING STRUCTURE
6. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
7. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
8. FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.
9. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
10. ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
11. PRESSURE VALUES IN THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES U.N.O.
13. PRODUCTS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION AS IS APPLICABLE. (SEE FBC SECTION 1709 FOR REQUIREMENTS).
14. ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
15. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.



FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 19, 2026



Digitally signed by
Frank Bennardo
Date: 2026.08.20
15:59:25 -04'00'

NOTE REGARDING USE OF THIS DOCUMENT &
USE OUTSIDE FLORIDA:

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ORIGINAL, SEALED COPIES OF APPROVED FLORIDA PRODUCT APPROVALS ARE NOT REQUIRED FOR PERMIT.
SEE **ECALC.IO/SEAL** TO LEARN MORE.

INSTRUCTIONS FOR USING THIS APPROVAL

- STEP 1:** USE THE DOOR ELEVATIONS PROVIDED ON PAGE 2 AND 3 TO DETERMINE THE APPLICABLE ASSEMBLY NUMBER
- STEP 2:** MOVE TO THE CHART BELOW THE DOOR ELEVATIONS, ALSO ON PAGE 2 AND 3, AND LOCATE YOUR ASSEMBLY NUMBER. BY SCANNING HORIZONTALLY THROUGH THE SAME ROW OF YOUR ASSEMBLY NUMBER, YOU WILL BE ABLE TO DETERMINE THE APPROVED **DOOR SERIES, MIN DOOR THICKNESS, MAX DESIGN PRESSURE, MAX DOOR OPENINGS, SWINGING OPTIONS, LATCHING HARDWARE FOR BOTH ACTIVE AND IN ACTIVE PANELS.**
- STEP 3:** USE PAGE 4 TO DETERMINE YOUR FRAMING PROFILES AND FRAMING CONSTRUCTION OPTIONS
- STEP 4:** USE THE TABLES ON PAGE 5 AND 6 TO DETERMINE THE ANCHOR TYPE AND SPACING, BASED ON THE YOUR PRESSURE AND SUBSTRATE CRITERIA
- STEP 5:** USE THE DETAILS PROVIDED ON PAGE 7 AND 8 TO DETERMINE YOUR WEATHERSTRIPPING OPTIONS

SHEET INDEX

# SHEET	DESCRIPTION
1	COVER SHEET
2-4	ASSEMBLY OPTIONS
5	DOOR FRAME DETAILS
6-7	DOOR FRAME ANCHORING INFORMATION
8-9	DOOR FRAME WEATHER STRIPPING INFORMATION
10	MANUFACTURERS AND ENGINEERING NOTES
10	TOTAL

VISIT **ECALC.IO/ASSAABLOY**

FOR SITE-SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
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FL# 16355.1

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CECO DOOR PRODUCTS
DIVISION OF ASSA ABLOY DOOR GROUP, INC.

9159 TELECOM DRIVE
MILAN, TN 38358

CecoDoor
ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMI) - FBC 9TH ED. (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#16355.1)

REMARKS	DATE	DRWN	CHKD
INIT/ISSUE (12-CUI-03g-01)	06/28/13	KL	FLB
FBC UPDATE	06/12/15	RWN	CSL
2017 FBC UPDATE	10/03/17	JEM	FLB
2020 FBC UPDATE	12/17/20	TAE	FLB
2023 FBC (PREV 20-34867)	10/18/23	AMZ	RS
2026 FBC UPDATE	08/17/26	ABF	CCB

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SCALE: NTS UNLESS NOTED

01 OF 10

CECO DOOR FLUSH PAIRS DOORS

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FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 19, 2026

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MULTI-POINT LOCK

SURFACE BOLTS

HEAD IS 2" MIN., 4" MAX TYPICAL

96" MAX DOOR OPENING HEIGHT

96" MAX DOOR OPENING WIDTH

ASSEMBLY 1

Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-150 PSF	+/-60 PSF

CONCEALED VERTICAL ROD EXIT DEVICE

96" MAX DOOR OPENING HEIGHT

96" MAX DOOR OPENING WIDTH

ASSEMBLY 2

Design Pressure Where Water Infiltration Is NOT Needed	Design Pressure Where Water Infiltration IS Needed
+/-70 PSF	+/-60 PSF

RIM EXIT DEVICE HARDWARE MULLION

96" MAX DOOR OPENING HEIGHT

96" MAX DOOR OPENING WIDTH

ASSEMBLY 3

Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70PSF	+/-60 PSF

SURFACE VERTICAL ROD EXIT DEVICE

96" MAX DOOR OPENING HEIGHT

96" MAX DOOR OPENING WIDTH

ASSEMBLY 4

Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-60 PSF

CONCEALED TWO POINT LOCK

96" MAX DOOR OPENING HEIGHT

96" MAX DOOR OPENING WIDTH

ASSEMBLY 5

Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Needed
+/-70 PSF	+/-60 PSF

CYLINDRICAL LOCK & CYLINDRICAL DEAD BOLT

FLUSH BOLTS

96" MAX DOOR OPENING HEIGHT

96" MAX DOOR OPENING WIDTH

ASSEMBLY 6

Design Pressure Where Water Infiltration Is NOT Needed	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-60 PSF

Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Door Swing	Latching Hardware Description Active			Latching Hardware Description In-Active		
			Positive	Negative	Width	Height		Type	Brand	Model	Type	Brand	Model
1	Regent, Imperial	14	150	150	96	96	Out Swing or In Swing*	Multi-Point Lock	Corbin Russwin	6600	Surface Bolt	Corbin Russwin	988CR
									Sargent	7300		Sargent	988
2	Fuego, Medallion, Legion, Omega, Regent, Ultra, Trio, Trio-E	16 Trio, TrioE -18	70	70	96	96	Out Swing	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-12-8600, HC-MD-12-8600, WS-MD-8600, WS-12-8600, WS-MD-12-8600	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-12-8600, HC-MD-12-8600, WS-MD-8600, WS-12-8600, WS-MD-12-8600
3	Medallion, Legion, Omega, Regent, Ultra, Trio, Trio-E	16 Trio, TrioE -18	70	70	96	96	Out Swing	Rim Exit Device	Corbin Russwin	ED5200S(A) x M107	Rim Exit Device	Corbin Russwin	ED5200S(A) x M107
									Sargent	HC8800, 12-HC8800		Sargent	HC8800, 12-HC8800
									ASSA ABLOY ACCENTRA	7150(F)WS/7250M(F)WS		ASSA ABLOY ACCENTRA	7150(F)WS/7250M(F)WS
4	Medallion, Legion, Ultra, Regent, Omega, Trio, Trio-E	16 Trio, TrioE -18	70	70	96	96	Out Swing	Surface Vertical Rod	Corbin Russwin	ED5470(B) x M107	Surface Vertical Rod	Corbin Russwin	ED5470(B) x M107
									Sargent	HC4-8700		Sargent	HC4-8700
									ASSA ABLOY ACCENTRA	7170(F)WS		ASSA ABLOY ACCENTRA	7170(F)WS
5	Fuego, Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor,	16 Trio, TrioE -18	70	70	96	96	Out Swing	Concealed Two Point Lock	Corbin Russwin	M9800 (A/B) x M107	Concealed Two Point Lock	Corbin Russwin	M9800 (A/B) x M107
									Sargent	WS-12-7000, HC-12-7000		Sargent	WS-12-7000, HC-12-7000
6	Trio, Trio-E	18	70	70	96	96	Out Swing or In Swing*	Cylindrical Lock & Cylindrical Dead Bolt	Corbin Russwin	CL3100 DL3200 Dead Bolt	Flush Bolt	Rockwood	556WS
									Sargent	11 Line 480 Dead Bolt			
Hinges **	Butt	McKinney 4-1/2" x 4-1/2" 0.134" thick minimum steel hinges or any FBC approved butt hinges may be used. Any SDI member hinge locations may be used.											
	Continuous	Markar FM100, FM200, FM300, FM3500, FM100, FM1111, or HG305; Pemko CFMSLF-HD continuous hinges or any FBC approved continuous hinge may be used											
	Pivots	Rixson 195 Pivot set with M19 intermediate pivots may be used. Any FBC approved pivot may be used.											
Auxiliary Hardware		1" diameter and smaller preparations for door position switches, Door position switches that fit in a cutout measuring 1.25" x 4.875"; Securitron EPT, SEPT, and CEPT may be used.											
		Maglocks may be used in addition to the hardware listed above. Viewers with 1" and smaller hole preparation may be used.											

*In-Swing Configurations not approved for water infiltration. See Hardware notes for additional Hardware options.

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DIVISION OF ASSA ABLOY DOOR GROUP, INC.

9159 TELECOM DRIVE
MILAN, TN 38358

CecoDoor ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMT) - FBC 9TH ED. (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#16355.1)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (12-CUI-03g-01)	KL	FLB	06/28/13
FBC UPDATE	RWN	CSL	06/12/15
2017 FBC UPDATE	JEM	FLB	10/03/17
2020 FBC UPDATE	TAE	FLB	12/17/20
2023 FBC (PREV 20-34867)	AMZ	RS	10/18/23
2026 FBC UPDATE	ABF	CCB	08/17/26

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CECO DOOR FLUSH PAIRS DOORS

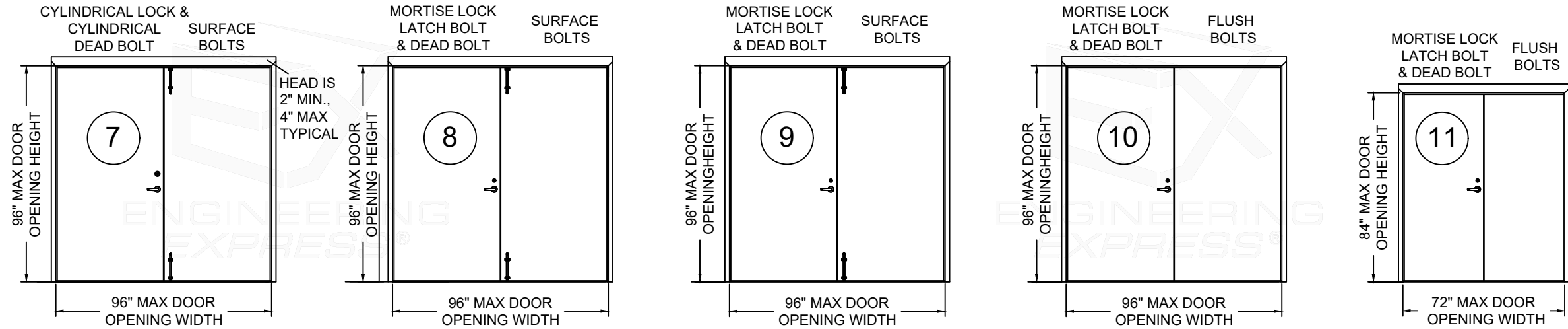
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FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 19, 2026

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ASSEMBLY 7		ASSEMBLY 8		ASSEMBLY 9		ASSEMBLY 10		ASSEMBLY 11	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required	Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required	Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required	Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required	Design Pressure Where Water Infiltration Is NOT Needed	Design Pressure Where Water Infiltration IS Needed
+/-70 PSF	+/-60 PSF	+/-70 PSF	+/-60 PSF	+/-70 PSF	+/-60 PSF	+/-70 PSF	+/-60 PSF	+/-70 PSF	+/-60 PSF

Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Door Swing	Latching Hardware Description Active			Latching Hardware Description In-Active		
			Positive	Negative	Width	Height		Type	Brand	Model	Type	Brand	Model
7	Trio, Trio-E	18	70	70	96	96	Out Swing or In Swing*	Cylindrical Lock & Cylindrical Dead Bolt	Corbin Russwin	CL3100 DL3200 Dead Bolt	Surface Bolt	Corbin Russwin	988CR
									Sargent	11 Line 480 Dead Bolt		Sargent	988
8	Fuego, Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor	16	70	70	96	96	Out Swing	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000	Surface Bolt	Corbin Russwin	988CR
									Sargent	7800, 8200, R8200		Sargent	988
									ASSA ABLOY ACCENTRA	8800		ASSA ABLOY ACCENTRA	988Y
9	Trio, Trio-E	18	70	70	96	96	Out Swing or In Swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000	Surface Bolt	Corbin Russwin	988CR
									Sargent	7800, 8200, R8200		Sargent	988
									ASSA ABLOY ACCENTRA	8800		ASSA ABLOY ACCENTRA	988Y
10	Trio, Trio-E	18	70	70	96	96	Out Swing or In Swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000	Flush Bolt	Rockwood	556WS
									Sargent	7800, 8200, R8200			
									ASSA ABLOY ACCENTRA	8800			
11	Trio, Trio-E	18	70	70	72	84	Out Swing or In Swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000	Surface Bolt	Corbin Russwin	988CR
									Sargent	7800, 8200, R8200		Sargent	988
									ASSA ABLOY ACCENTRA	8800		ASSA ABLOY ACCENTRA	988Y
Hinges	Butt	McKinney 4-1/2" x 4-1/2" 0.134" thick minimum steel hinges or any FBC approved butt hinges may be used. Any SDI member hinge locations may be used.											
	Continuous	Markar FM100, FM200, FM300, FM3500, FM100, FM1111, or HG305; Pemko CFMSLF-HD continuous hinges or any FBC approved continuous hinge may be used											
	Pivots	Rixson 195 Pivot set with M19 intermediate pivots may be used											
Auxiliary Hardware		1" diameter and smaller preparations for door position switches, Door position switches that fit in a cutout measuring 1.25" x 4.875"; Securitron EPT, SEPT, and CEPT may be used.											
		Maglocks may be used in addition to the hardware listed above. Viewers with 1" and smaller hole preparation may be used.											

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ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMT) - FBC 9TH ED. (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#16355.1)

REMARKS

INIT ISSUE (12-CUI-03g-01)

FBC UPDATE

2017 FBC UPDATE

2020 FBC UPDATE

2023 FBC (REV 20-34867)

2026 FBC UPDATE

DATE

06/28/13

06/12/15

10/03/17

12/17/20

10/18/23

09/17/26

DRWN

KL

FLB

RWN

JEM

TAE

AMZ

ABF

CHKD

CSL

FLB

FLB

RS

CCB

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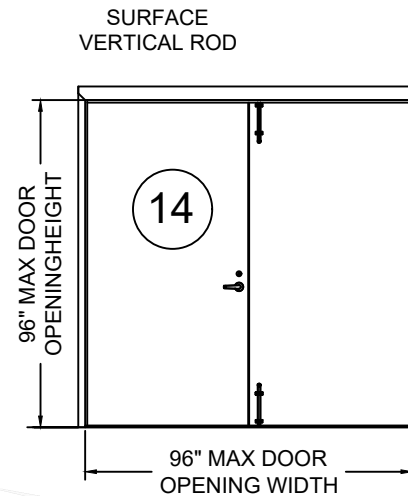
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AUGUST 19, 2026



ASSEMBLY 9	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-150 PSF	+/-60 PSF

Assembly	Door Series	Minimum Door Gauge	Maximum		Maximum		Door Swing	Latching Hardware Description Active			Latching Hardware Description In-Active		
			Positive	Negative	Width	Height		Type	Brand	Model	Type	Brand	Model
12	Fuego, Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor, Trio, Trio-E	18	60	60	72	72	Out Swing	Rim Exit	Corbin Russwin	ED5200S(A) x M107	Rim Exit	Corbin Russwin	ED5200S(A) x M107
									Sargent	HC8800, 12-HC8800		Sargent	HC8800, 12-HC8800
									ASSA ABLOY ACCENTRA	7150(F)WS/7250M(F)WS		ASSA ABLOY ACCENTRA	7150(F)WS/7250M(F)WS
13	Regent, Imperial, Medallion, Legion	14	150	150	96	96	Out Swing	Surface Vertical Rod	Sargent	HC4-8700, 12-HC4-8700	Surface Vertical Rod	Sargent	HC4-8700, 12-HC4-8700
14	Regent, Imperial, Medallion, Legion	14	150	150	96	96	Out Swing	Surface Vertical Rod	Sargent	HC4-8700, 12-HC4-8700	Surface Bolt	Sargent	988
Hinges	Butt	McKinney 4-1/2" x 4-1/2" 0.134" thick minimum steel hinges or any FBC approved butt hinges may be used. Any SDI member hinge locations may be used.											
	Continuous	Markar FM100, FM200, FM300, FM3500, FM100, FM1111, or HG305; Pemko CFMSLF-HD continuous hinges or any FBC approved continuous hinge may be used											
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FLORIDA STATEWIDE APPROVAL (FSA FL#163)

CecoDoor
ASSA ABLOY

REMARKS	DRWN	CHKD	DATE
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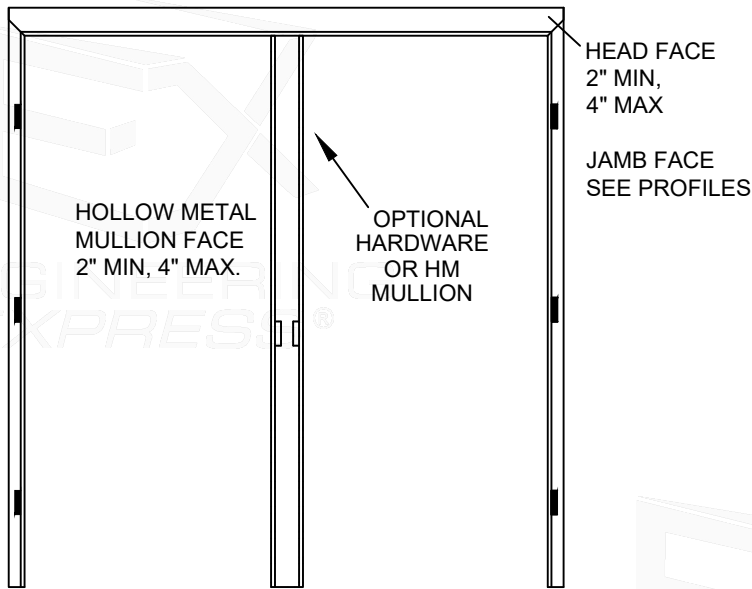
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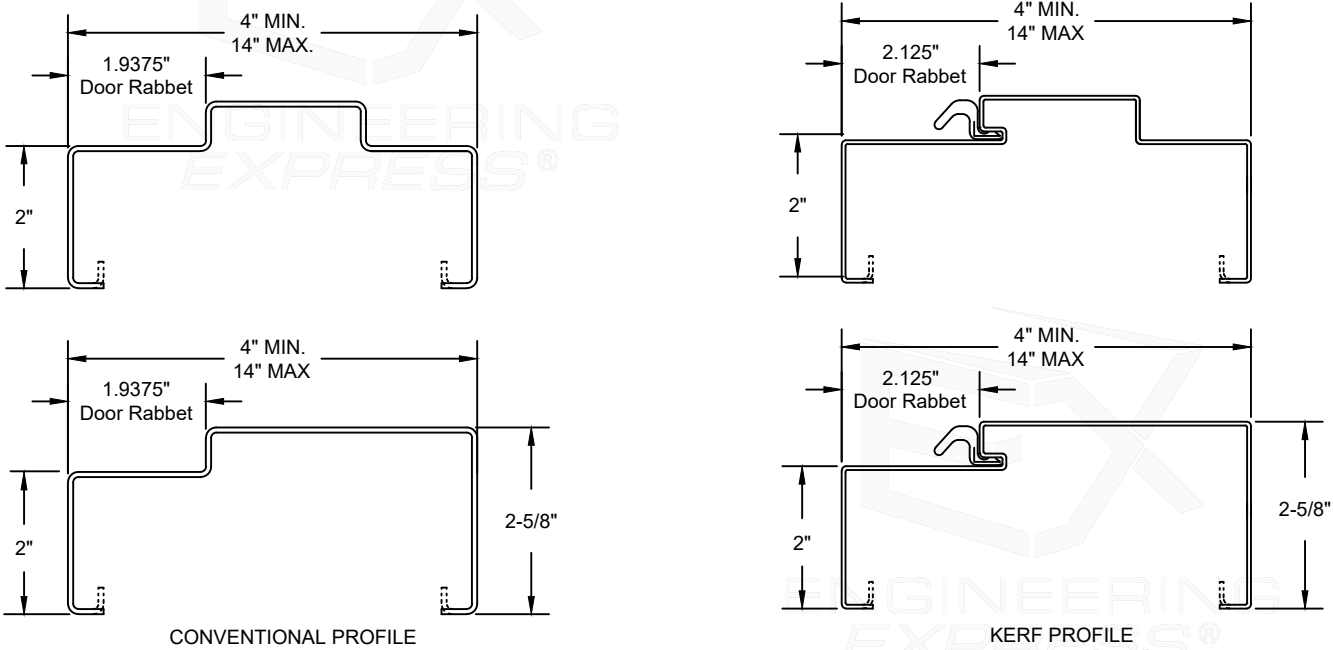
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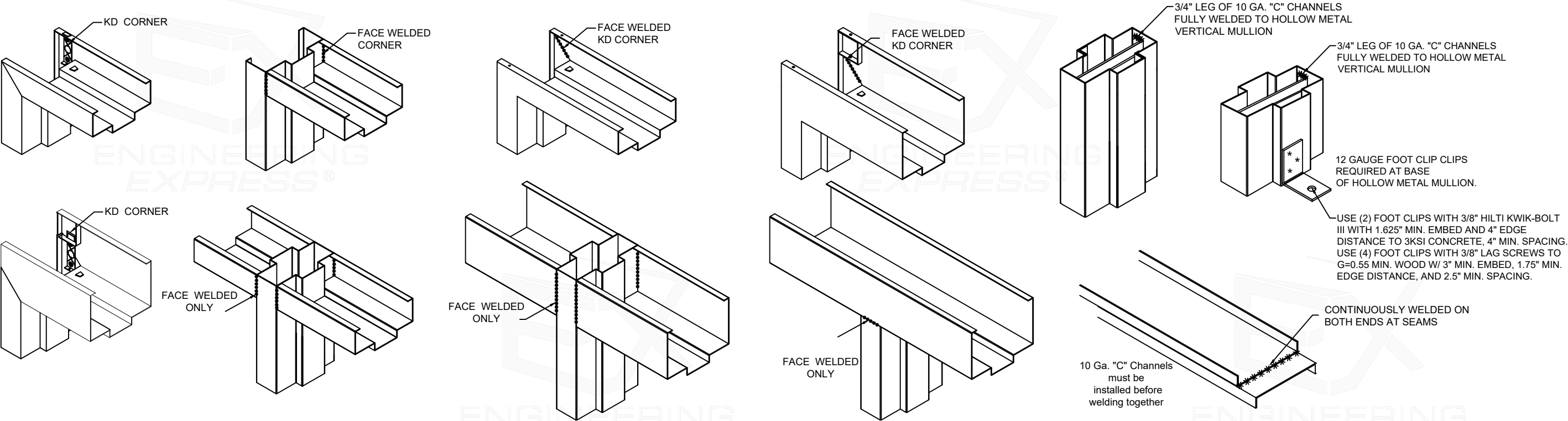


8'0" X 8'0" MAX.
4" MIN./14" MAX. DEPTH
KD 16 GA. MIN.
WELDED 16 GA MIN., 12 GA. MAX.
MAX DESIGN PRESSURE WITHOUT MULLIONS +/-150 PSF
MAX DESIGN PRESSURE WITH MULLIONS +/-70 PSF
FOUR SIDED DOOR FRAME WITH WELDED CORNERS ALSO PERMITTED

FRAME PROFILES



FRAME CONSTRUCTION OPTIONS



CECO DOOR PRODUCTS

DIVISION OF ASSA ABLOY DOOR GROUP, INC.

9159 TELECOM DRIVE
MILAN, TN 38358

COMMERCIAL STEEL EXTERIOR DOORS

FLUSH PAIRS OF DOORS (LMI) - FBC 9TH ED. (2026)

FLORIDA STATEWIDE APPROVAL (FSA FL#16355.1)

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2026 FBC UPDATE	ABF	CCB	08/17/26

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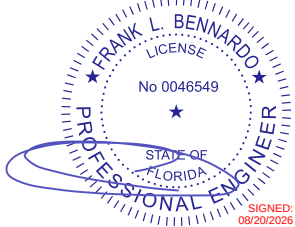
05 OF 10

CECO DOOR FLUSH PAIRS DOORS

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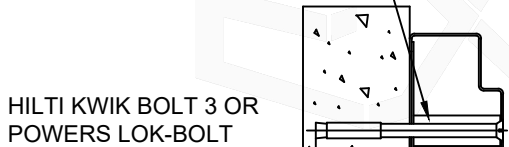
FRANK BENNARDO, PE
PE# 0046549 CA# 9885

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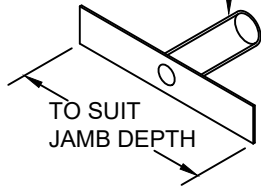
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EXISTING MASONRY OR POURED CONCRETE, 3000 psi MIN.
WELDED PIPE SPACER OR EWA ANCHOR WITH 3/8"
EXPANSION ANCHOR BOLTS USING 3/8" GRADE 5 BOLT
MINIMUM EDGE DISTANCE = 4.0"
MAXIMUM SHIM THICKNESS = 0.25"



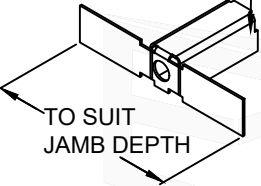
2 3/8" MIN.

16 GA (0.053" MIN)
PIPE SPACER ANCHOR



TO SUIT
JAMB DEPTH

16 GA (0.053" MIN)
EWA ANCHOR



TO SUIT
JAMB DEPTH

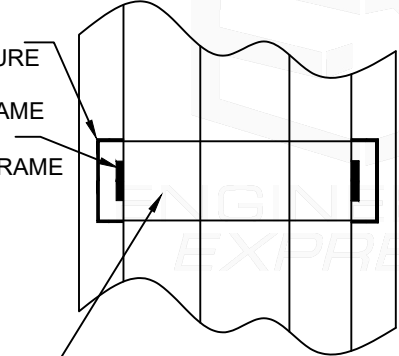
1/4" MAX. THICK A-36 STEEL SHIMS WELDED TO STRUCTURAL
BUILDING MEMBER WITH FILLET WELDS MEASURING 2" LONG
USING E6018 ELECTRODES. FILLET WELD SIZE SAME AS SHIM
THICKNESS FOR 0.053" TO 0.125" SHIM THICKNESS. WELD SIZE
1/8" FOR > 0.125" TO 1/4" SHIM THICKNESS.

STEEL SHIMS WELDED
TO BUILDING STRUCTURE

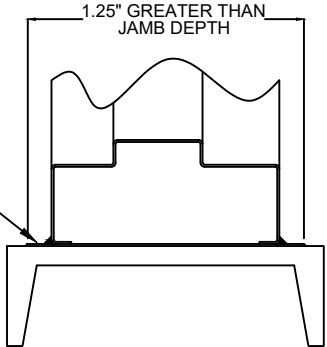
WELD HOLLOW METAL FRAME
TO SHIM WITH 3/16" WELD,
1" LONG BOTH SIDES OF FRAME

2" X 7" STEEL SHIM
PLATE(S), OR TO SUIT
FRAME JAMB DEPTH

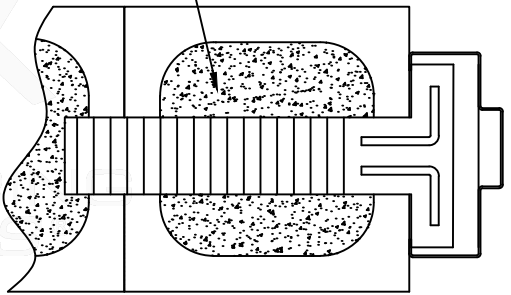
MAXIMUM SHIM
SPACE 1/4"



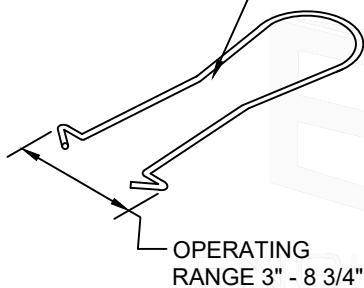
1.25" GREATER THAN
JAMB DEPTH



MAXIMUM SHIM THICKNESS 0.25
CMU BLOCK AND THROAT OF FRAME
FILLED WITH 3000 PSI MORTAR

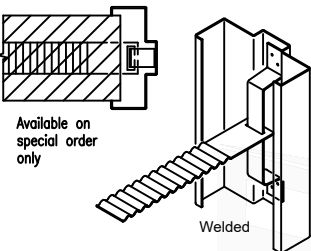
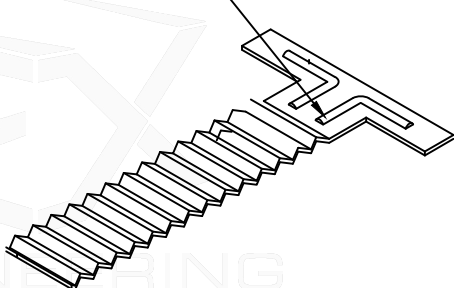


MASONRY WIRE ANCHOR
0.165" DIA. MIN.



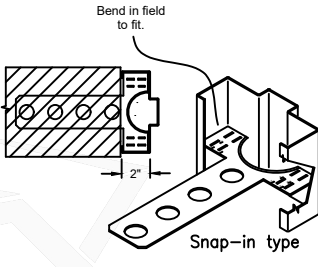
OPERATING
RANGE 3" - 8 3/4"

16 GA (0.053" MIN)
MASONRY T ANCHOR

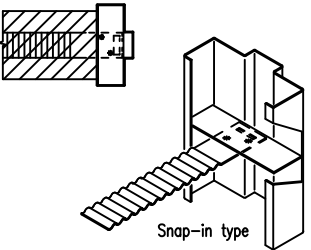


Available on
special order
only

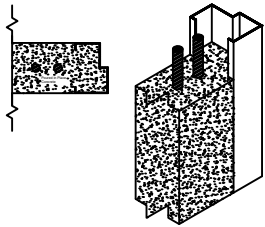
YOKE AND STRAP
MASONRY ANCHOR



MASONRY "T" ANCHOR
(ADJUSTABLE)



MASONRY "T" ANCHOR



POURED IN PLACE WALL

Expansion Shell Anchors Into 1500 psi Grout filled Concrete Masonry Requirements for Jamb						
Opening Height (inches)	Up to an including 70 psf			150 psf		
	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 84"	12	4	19	12	5	15
90	12	4	19	12	6	15
96	12	5	19	12	6	15
Expansion Shell Anchor Requirements for Heads of Paired Frames						
70 psf	2 anchors in the head		150 psf	4 anchors in the head		

Expansion Shell Anchors Into 3000 psi Concrete Requirements for Jamb						
Opening Height (inches)	Up to an including 70 psf			150 psf		
	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 84"	12	5	19	12	5	19
90	12	5	19	12	5	19
96	12	6	19	12	6	19
Expansion Shell Anchor Requirements for Heads of Paired Frames						
70 psf	2 anchors in the head		150 psf	4 anchors in the head		

Masonry Strap, Masonry T, Masonry Wire, and Welded to the Building Structure Anchor Requirements for Jamb of Paired Frames						
	Up to an including 70 psf			150 psf		
Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 88"	12	4	24	12	4	24
90"	12	5	24	12	5	24
92"-96"	12	5	24	12	5	24
Expansion Shell Anchor Requirements for Heads of Paired Frames						
70 psf	2 anchors in the head		150 psf	4 anchors in the head		
Welded to the Building Structure Anchor Requirements for Heads of Paired Frames						
70 psf	2 anchors in the head		150 psf	2 anchors in the head		

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DIVISION OF ASSA ABLOY DOOR GROUP, INC.

CecoDoor
ASSA ABLOY

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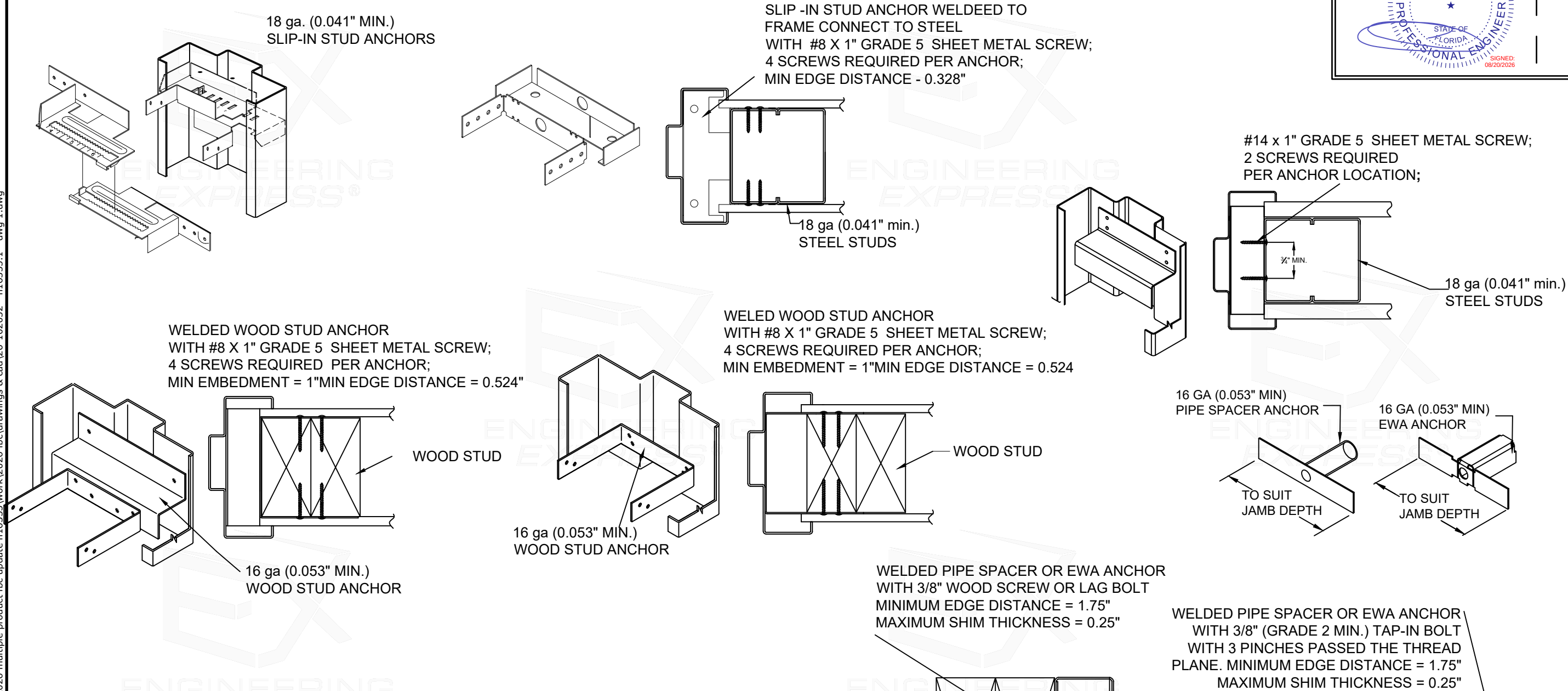
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PE# 0046549 CA# 9885

FL

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Stud Anchor Requirements for Paired Frame Jamb						
Opening Height (inches)	Up to an including 70 psf			150 psf		
	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 88"	12	4	21	12	6	12
90"	12	5	21	12	7	12
92"-96"	12	5	21	12	7	12
Stud Anchor Requiremnts for Heads of Paired Frames						
70 psf	4 anchors in the head		150 psf	8 anchors in the head		

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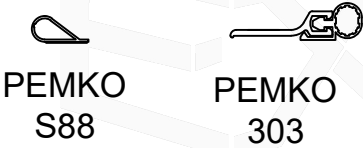
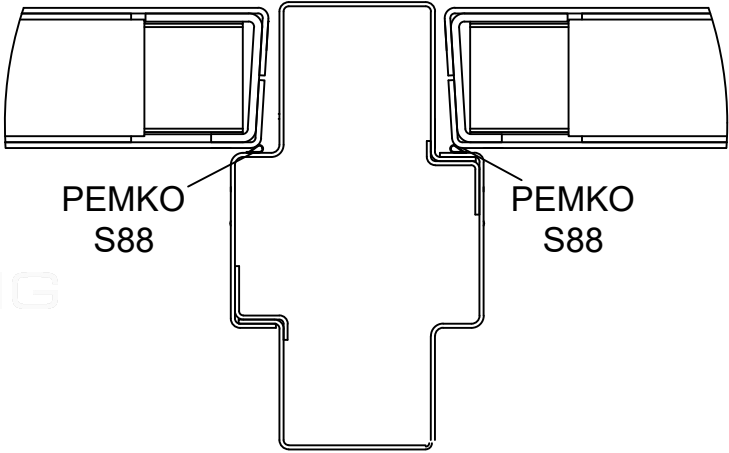
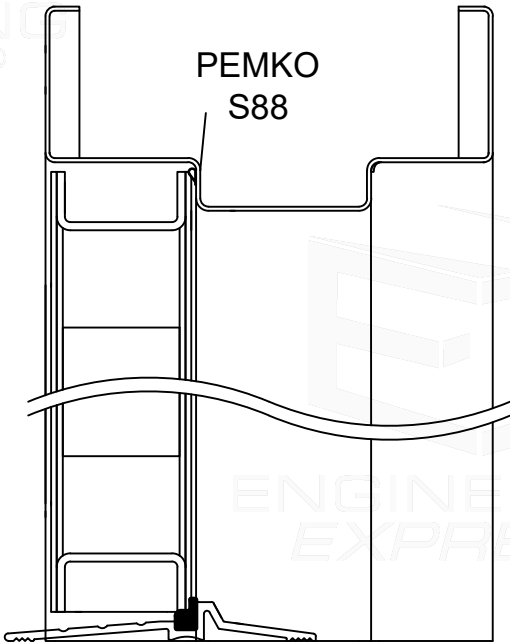
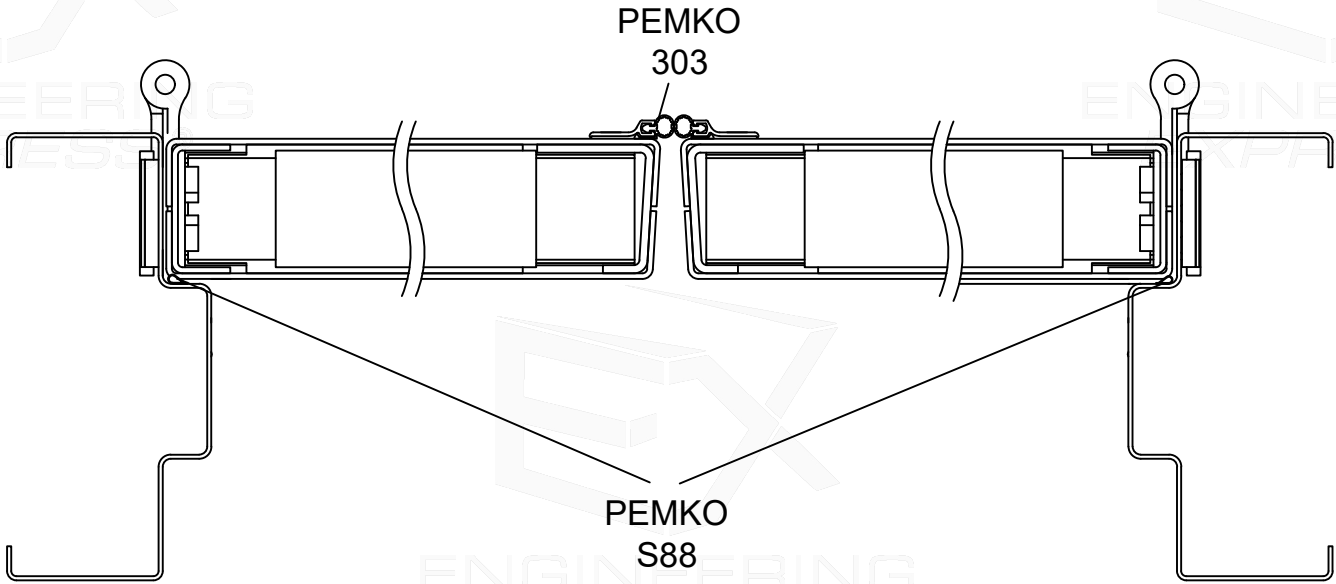
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CECO DOOR FLUSH PAIRS DOORS

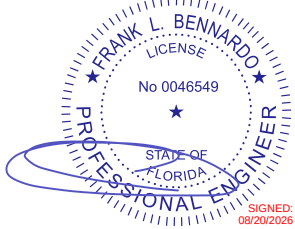
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PEMKO WEATHERSTRIP USED ON CECO DOORS AND FRAMES WHERE WATER INFILTRATION IS NOT REQUIRED.



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PE# 0046549 CA# 9885

AUGUST 19, 2026



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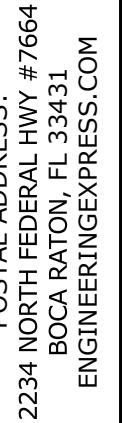
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HARDWARE NOTES

CORBIN RUSSWIN

THE ED5200(S)A RIM EXIT AND THE ED5470(B) X M107 SURFACE VERTICAL ROD MAYBE SUFFIXED BY MER. MAY USE M94 WITH ANY COMBINATION OF THE M61, M92, M93, OR M1 SUFFIXES.

THE ED5200(S)A X M107 RIM EXIT AND THE ED5470(B) X M107 SURFACE VERTICAL ROD MAY INCLUDE 900 SERIES TRIMS 9600, 9700, 9800 SERIES ACCESS CONTROL TRIMS OR THE 9900 SERIES ELECTRIFIED TRIMS.

THE MP9800 (A/B) X M107 SERIES CONCEALED MULTI-POINT LOCK MAY INCLUDE THE OPTIONS: M91, M92, M93, 903, 904, IN, INB, SE.

USE CRFE722A, CRFE708A OR CRWS700AKM HARDWARE MULLION WITH THE ED5200(S)A / ED4200(S)A X M107 RIM EXIT

ON PAIRS OF DOORS, ONE LEAF OF THE PAIR UTILIZING WITH THE ED5470(B) X M107 SURFACE VERTICAL ROD OR MP9800 (A/B) X M107 SERIES CONCEALED MULTI-POINT LOCK MAY BE REPLACED WITH TWO 988CR SURFACE BOLTS. THE LOCAL BUILDING OFFICIAL MUST APPROVE THIS CONFIGURATION OF HARDWARE FOR USE IN A MEANS OF EGRESS.

THE ML2000 SERIES MORTISE LOCKS, SERIES CLX3300 SERIES CYLINDRICAL LOCKS, ED5200(S)A X M107 RIM EXIT, AND ED5470(B) X M107 SURFACE VERTICAL ROD MAY BE PREFIXED IN-IP, IN-IPS, IN-CP, IN-IP-MB, IN-IP-MW, IN-IPS-MB, IN-IPS-MW, IN-CP-MP, AND IN-CP-MW.

THE ML2000 SERIES MORTISE LOCKS, SERIES CLX3300 SERIES CYLINDRICAL LOCKS, ED5200(S)A X M107 RIM EXIT MAY BE PREFIXED PIP1-IPSKM, PWI1-IPSKM, PIP1-CPKM, PWI1-CPKM, PIP1-IPSM, PWI1-IPSM, PIP1-CPM, AND PWI1-CPM.

THE IN 120 ACCESS CONTROL MAY BE USED WITH CLX3300 CYLINDRICAL LOCK OR ML2000 MORTISE LOCK.

HES

THE 1006 SERIES ELECTRIC STRIKE MAYBE USED ON 4'0" X 8'0" AND SMALLER SINGLE OR 8'0" X 8'0" AND SMALLER PAIRS OUT SWINGING DOORS OF 70 PSF OR LESS.

THE 9600 SERIES ELECTRIC STRIKE MAY BE USED WITH THE SARGENT HC8800 SERIES RIM EXIT AT DESIGN PRESSURES OF 70 PSF OR LESS.

THE 9700 SERIES ELECTRIC STRIKE MAY BE USED WITH THE CORBIN RUSSWIN ED5200(S)A AND THE YALE 7150(F)WS / 7250M(F)WS RIM EXITS AT DESIGN PRESSURES OF 70 PSF OR LESS.

SECURITRON 1500 / 1500E STRIKE MAY BE USED ON 3'0" X 7'0" AND SMALLER SINGLE OUT SWINGING ASSEMBLIES WITH MORTISE LOCKS AND LATCH BOLT ONLY AT DESIGN PRESSURES OF 60 PSF OR LESS.

SECURITRON 1600 / 1600E STRIKE MAY BE USED ON 4'0" X 8'0" AND SMALLER SINGLE OUT SWINGING ASSEMBLIES WITH MORTISE LOCKS WITH LATCH BOLT AND DEAD BOLT OF 70 PSF AND LESS.

SARGENT

THE HC8800 SERIES RIM EXIT, WS 8800 SERIES RIM EXIT, AND WS-8900 SERIES MORTISE EXIT MAYBE PREFIXED 53, 55, 55-56, 56, 57, 58, AWE, B, BT, ET, KP, LK, LU, M1, N1, N2, PA, PK, P1, P2, IPSKM, CPKM, IPSM, CPM, IM, IKM, PRX, S1, S2, S3, IA, IK, IN, TK, TL, TP AND TU.

USE HC980, 12-HC980, HCL980, 12-HCL980 HARDWARE MULLION WITH THE HC8800 SERIES RIM EXIT.

SERIES HT-56- CAN BE USED SAME AS THE 53-56- ON THE 80 SERIES DEVICES. EXCEPTIONS INCLUDE THE FOLLOWING PREFIXES EITHER USED ALONE OR IN COMBINATION: 53-, 55-, 57-, 58-, 59- AND AL. ALL 80 SERIES EMPLOYING HIO TECHNOLOGY AND THE 55 OPTION ARE DESIGNATED HT-55-.

THE MD8600 SERIES CONCEALED VERTICAL ROD EXIT AND 7000 SERIES CONCEALED MULTI-POINT LOCK MAY BE PREFIXED 53, 55, 56, 58, 59, BT & ET.

ON PAIRS OF DOORS, ONE LEAF OF THE PAIR UTILIZING WITH THE MD8600 SERIES CONCEALED VERTICAL ROD EXIT, 7000 CONCEALED MULTI-POINT LOCK OR HC4-8700 / HC-8700 SURFACE VERTICAL ROD MAY BE REPLACED WITH TWO 988CR SURFACE BOLTS. THE LOCAL BUILDING OFFICIAL MUST APPROVE THIS CONFIGURATION OF HARDWARE FOR USE IN A MEANS OF EGRESS.

THE IN 10 ACCESS CONTROL MAY BE USED WITH THE 10X CYLINDRICAL LOCK AND THE 8200 AND THE R8200 MORTISE LOCKS

BUTT HINGES

- 2 HINGES ARE REQUIRED FOR DOORS UP TO AND INCLUDING 60 INCHES IN HEIGHT
- 3 HINGES ARE REQUIRED FOR DOORS OVER 60 INCHES IN HEIGHT AND UP TO AND INCLUDING 90" IN HEIGHT
- 4 HINGES ARE REQUIRED FOR DOORS OVER 90 INCHES IN HEIGHT AND UP TO AND INCLUDING 96" IN HEIGHT

ADDITIONAL HINGES BEYOND THOSE REQUIRED MAY BE REQUIRED.

ASSA ABLOY ACCENTRA

7150(F)WS / 7250M(F)WS RIM EXIT AND 7170(F)WS SURFACE VERTICAL ROD MAY BE SUFFIXED WITH ANY COMBINATION OF A, B, O, OR S.

USE M200FWS OR KRM200FWS MULLION WITH THE 7150(F)WS / 7250M(F)WS RIM EXIT.

ON PAIRS OF DOORS, ONE LEAF OF THE PAIR UTILIZING WITH THE 7170(F)WS SURFACE VERTICAL ROD MAY BE REPLACED WITH TWO 988CR SURFACE BOLTS. THE LOCAL BUILDING OFFICIAL MUST APPROVE THIS CONFIGURATION OF HARDWARE FOR USE IN A MEANS OF EGRESS

ACCESS CONTROL MAY BE USED.

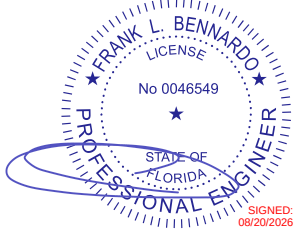
SECURITRON

THE MUNL MAY BE USED ON 60 PSF RATED SINGLE 3'0" X 7'0" ASSEMBLIES WITH A MORTISE CORBIN RUSSWIN ML2000, SARGENT 7800/8200/R8200, OR ASSA ABLOY ACCENTRA 8800 MORTISE LOCK. THE UNL MAY BE USED ON 60 PSF RATED SINGLE 3'0" X 7'0" ASSEMBLIES WITH A CORBIN RUSSWIN CL3100 / CLX3300 / CL3800, SARGENT 6500 / 7 /10X, OR ASSA ABLOY ACENTRA / 5300LN / 5400CK / 5400LN CYLINDRICAL LOCKS.

THE HARDWARE MODELS BELOW MAY ALSO BE USED FOR THE SIZES AND DESIGN PRESSURES INDICATED. CONCEALED VERTICAL RODS AND SURFACE VERTICAL RODS MAY BE USED IN A PAIRED CONFIGURATION. RIM EXITS MAY BE USED IN PAIRED CONFIGURATION WITH A HURRICANE RATED MULLION					
DESIGN PRESSURE	SIZE	HARDWARE TYPE	MIN, GAUGE	CORBIN RUSSWIN	SARGENT
60	3'-0" x 7'-0"	MORTISE EXIT	18	PED5600 M107 PED5600 A M107*	WS-PE8900 WS-12-PE8900*
60	3'-0" x 7'-0"	RIM EXIT	18	PED5200 HC PED5200 A HC* PED5200 M107 PED5200 A M107*	HC-PE8800 12-HC-PE8800* WS-PE8800 WS-12-PE8800*
60	3'-0" x 8'-0" SINGLE 6'-0" x 8'-0" PAIR	CONCEALED VERTICAL ROD	16	PED5800 MD 107 PED5800 MD HC	HC-MD-PE8600 WS-MD-PE8600
60	3'-0" x 8'-0" SINGLE 6'-0" x 8'-0" PAIR	RIM EXIT	16	PED5200 HC PED5200 A HC*	HC-PE8800 12-HC-PE8800*
60	3'-0" x 8'-0" SINGLE 6'-0" x 8'-0" PAIR	SURFACE VERTICAL ROD	16	PED5400 HC	HC-PE8700
70	4'-0" x 8'-0" SINGLE 8'-0" x 8'-0" PAIR	CONCEALED VERTICAL ROD	16	PED5800 MD 107 PED5800 MD HC	HC-MD-PE8600 WS-ME-PE860
70	4'-0" x 8'-0" SINGLE 8'-0" x 8'-0" PAIR	RIM EXIT	16	PED5200 HC PED5200A HC*	HC-PE8800
65	4'-0" x 8'-0" SINGLE 8'-0" x 8'-0" PAIR	SURFACE VERTICAL ROD	16	PED5400 HC	HC-PE8700
150	4'-0" x 8'-0" SINGLE 8'-0" x 8'-0" PAIR	SURFACE VERTICAL ROD	14	PED5400 HC4 PED5400 A HC4*	HC4-8700 12-HC4-PE8700*
*INDICATED A FIRE RATED EXIT HARDWARE MAY BE USED ON A SINGLE DOOR					

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 19, 2026



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