

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

FLEMING 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.

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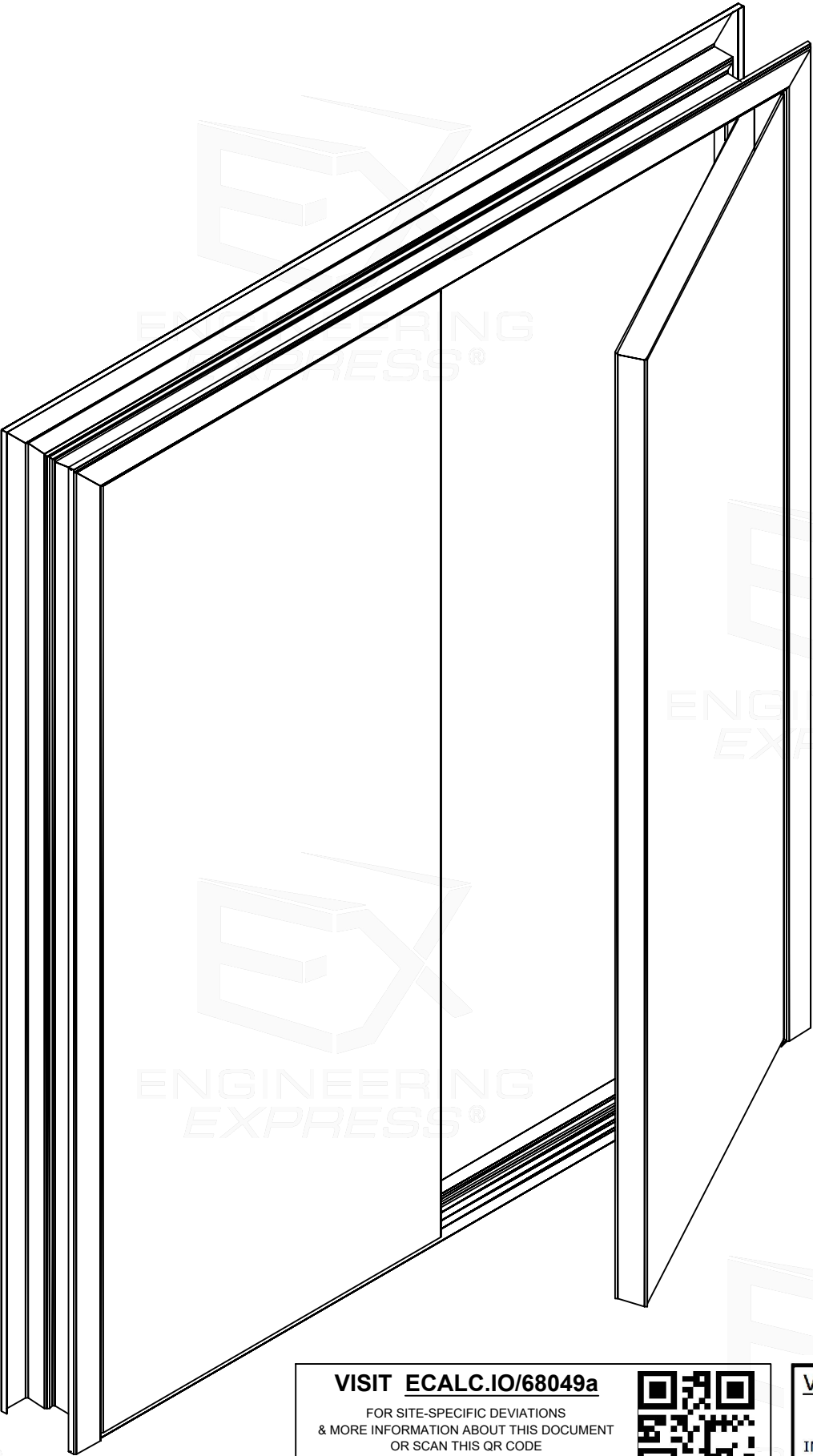
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INSTRUCTIONS FOR USING THIS APPROVAL

- 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
2-3	ASSEMBLY OPTIONS
4	DOOR FRAME DETAILS
5-6	DOOR FRAME ANCHORING INFORMATION
7-8	DOOR FRAME WEATHER STRIPPING INFORMATION
9	MANUFACTURERS AND ENGINEERING NOTES
9	TOTAL



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FOR SITE-SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
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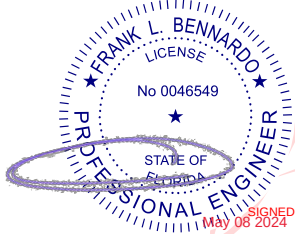
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FOR HELPFUL RESOURCES, SITE
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PE# 0046549 CA# 9885



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101 ASHBURIDGE CIRCLE
WOODBIDGE, ON, CANADA L4L 3R5
Fleming
Door Products
ASSA ABLOY
COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.1)

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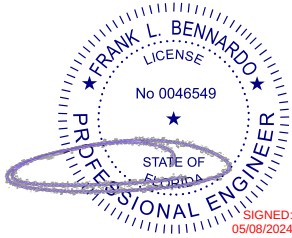
ASSA ABLOY, the global leader in door opening solutions.

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FLEMING DOOR PRODUCTS FLUSH PAIRS OF DOORS

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FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024

CONCEALED VERTICAL ROD EXIT DEVICE

96" MAX DOOR OPENING HEIGHT

96" MAX DOOR OPENING WIDTH

HEAD IS 2" MIN., 4" MAX TYPICAL

ASSEMBLY 1

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 2

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 3

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 4

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

MORTISE LOCK LATCH BOLT & DEAD BOLT

SURFACE BOLTS

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 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	D, DSS, H, SW, Trio, Trio-E	16 Trio, Trio-E - 18	70	70	96	96	Out Swing	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-MD-12-8600, WS-MD-8600, WS-MD-12-8600	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-MD-12-8600, WS-MD-8600, WS-MD-12-8600
②	D, DSS, H, SW, Trio, Trio-E	16 Trio, Trio-E - 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
③	D, DSS, H, SW, Trio, Trio-E	16 Trio, Trio-E - 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
④	D, DSS, H, SW, Trio, Trio-E	16 Trio, Trio-E - 18	70	70	96	96	Out Swing	Concealed Two Point Lock	Sargent	WS-12-7000, HC-12-7000	Concealed Two Point Lock	Sargent	WS-12-7000, HC-12-7000
									Corbin Russwin	MP9800 (A/B) x M107		Corbin Russwin	MP9800 (A/B) x M107
⑤	D, DSS, H, SW	16	70	70	96	96	Out Swing or Inswing*	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	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.

** HINGE SUBSTITUTIONS, WITH FBC COMPONENT APPROVALS, MAY BE USED AS LONG AS THE SUBSTITUTIONS ARE WITHIN THE LIMITING DESIGN PARAMETERS OF THIS APPROVAL AND THE COMPONENT APPROVAL.

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WOODBRIIDGE, ON, CANADA L4L 3R5
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ASSA ABLOY
COMMERCIAL STEEL EXTERIOR DOORS
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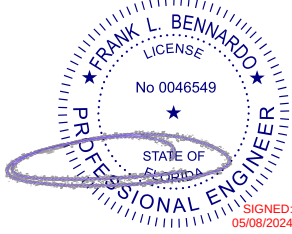
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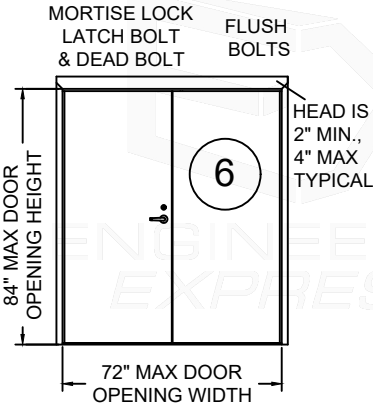
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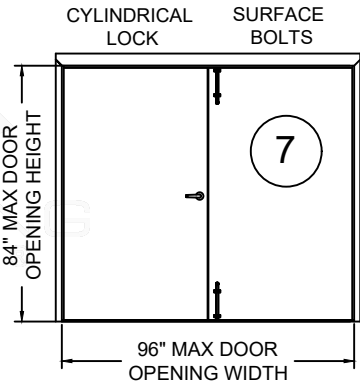
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PE# 0046549 CA# 9885



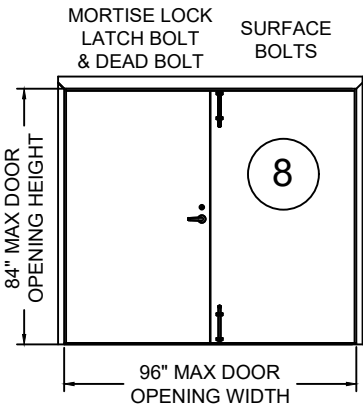
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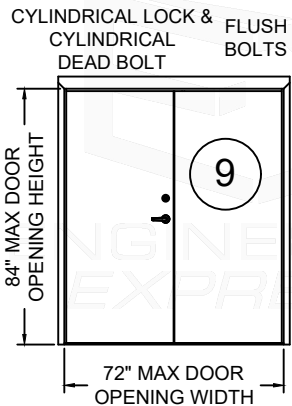
ASSEMBLY 6	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-60 PSF



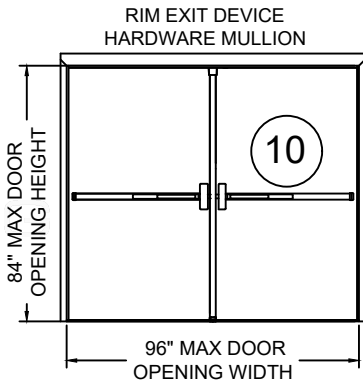
ASSEMBLY 7	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Needed
+65/-70 PSF	+/-60 PSF



ASSEMBLY 8	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Needed
+65/-70 PSF	+/-60 PSF



ASSEMBLY 9	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+65/-70 PSF	+/-60 PSF



ASSEMBLY 10	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-65 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
⑥	D, DSS, E, H, SW	16	70	70	72	84	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				
⑦	D, DSS, E, H, SW	18	65	70	96	84	Out Swing	Cylindrical Lock	Corbin Russwin	CL3100 DL3200 Dead Bolt	Surface Bolt	Corbin Russwin	988CR
									Sargent	11 Line 480 Dead Bolt		Sargent	988
⑧	D, DSS, E, H, SW	18	65	70	96	84	Out Swing or Inswing*	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	D, DSS, E, H, SW	18	65	70	72	84	Out Swing	Cylindrical Lock & Cylindrical Dead Bolt	Corbin Russwin	CL3100 DL3200 Dead Bolt	Flush Bolt	Rockwood	556WS
									Sargent	11 Line 480 Dead Bolt			
⑩	D, DSS, E, H, SW	18	65	65	96	84	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
Hinges**	Butt	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.											

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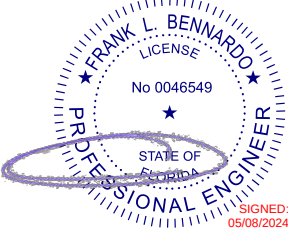
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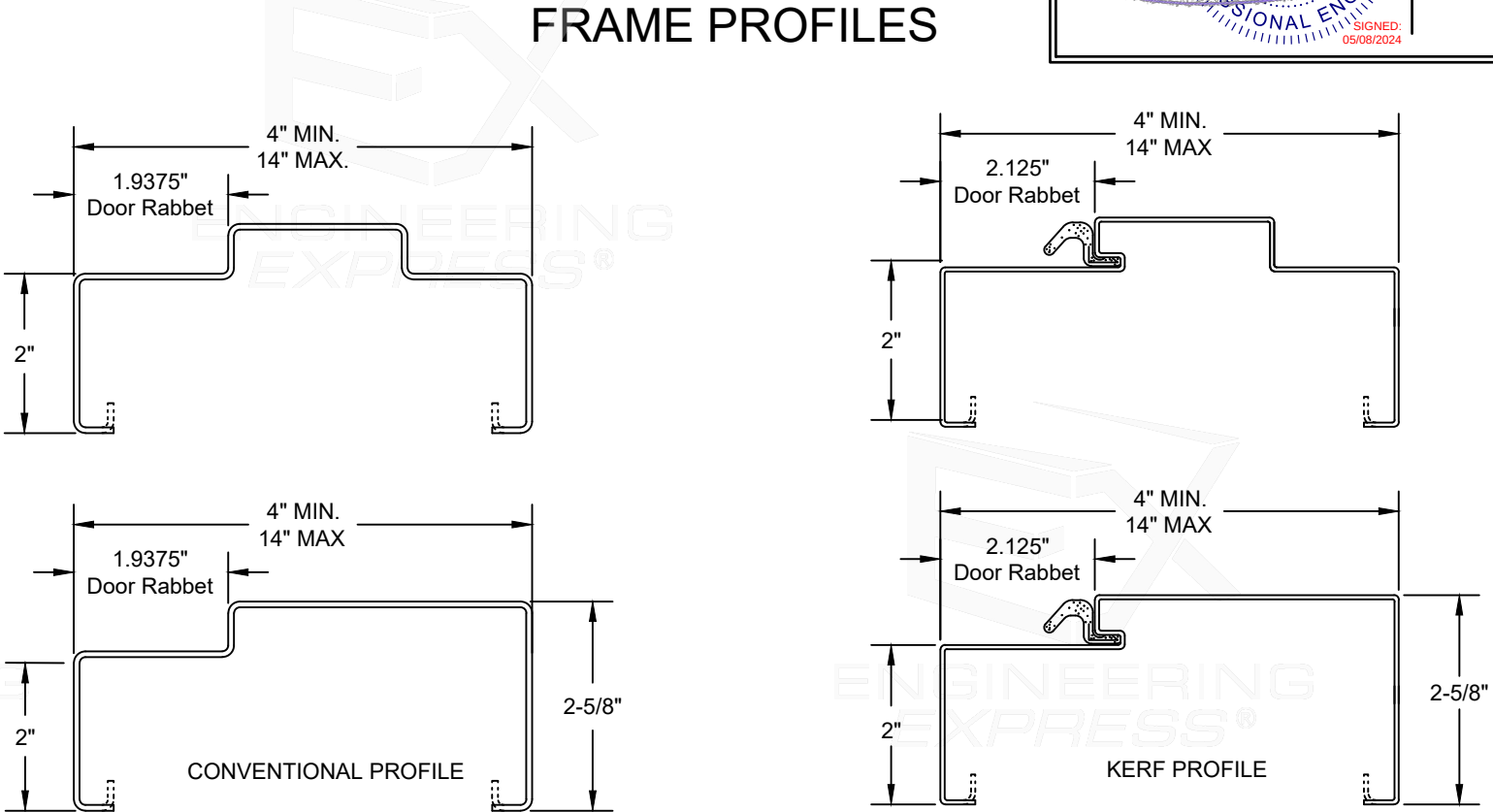
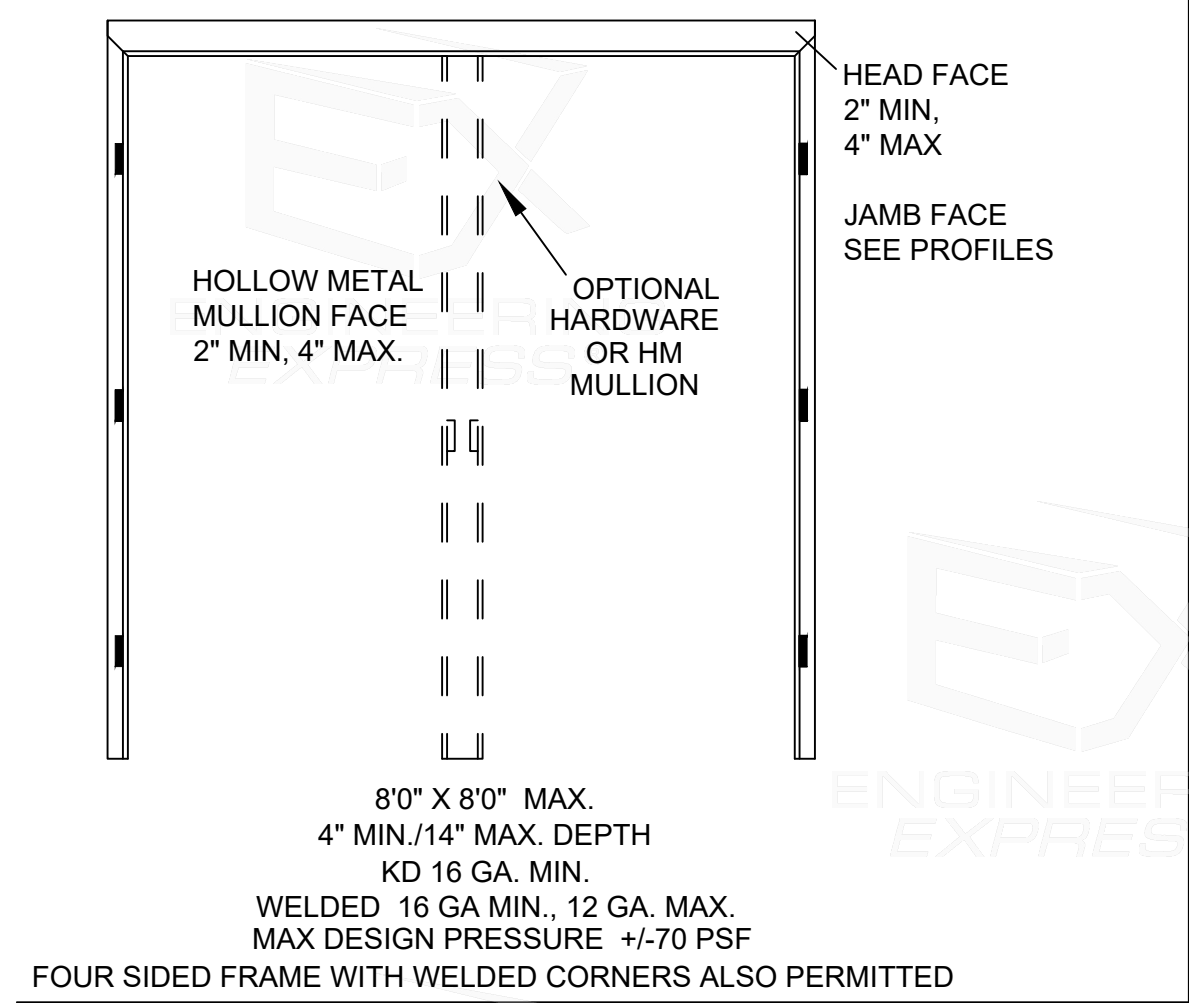
FLEMING DOOR PRODUCTS PAIRED DOOR FRAME INFORMATION

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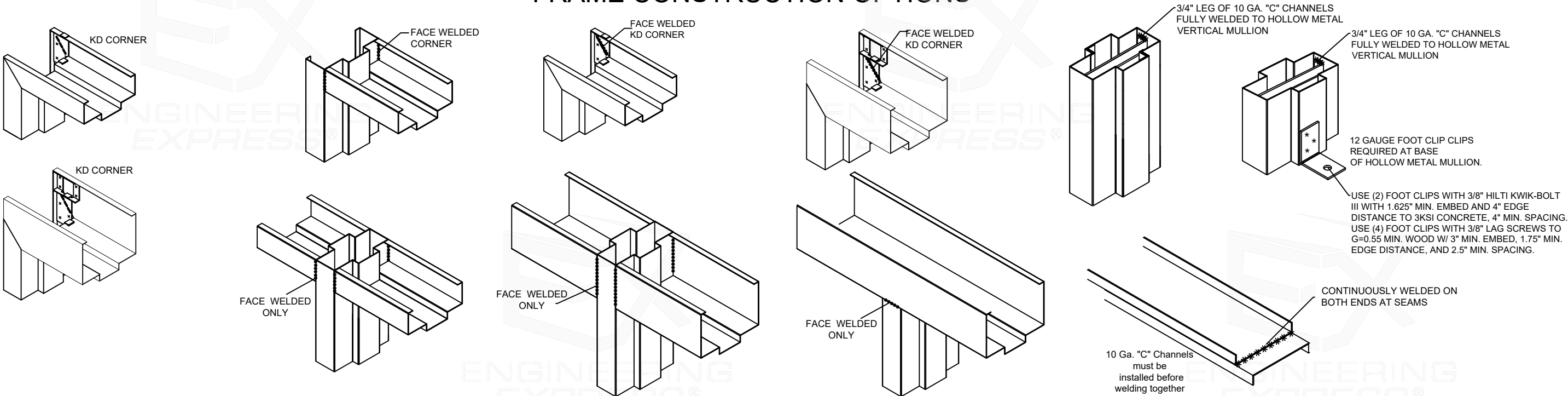
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FRAME CONSTRUCTION OPTIONS



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COMMERCIAL STEEL EXTERIOR DOORS
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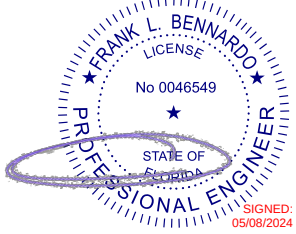
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FLEMING DOOR PRODUCTS FRAME ANCHOR INFORMATION

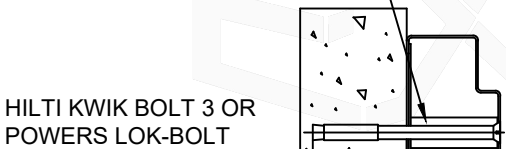
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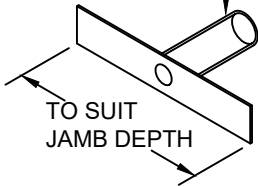
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EXISTING MASONRY OR POURED CONCRETE, 3000 psi MIN.
WELDED PIPE SPACER OR EWA ANCHOR WITH 3/8" EXPANSION ANCHOR BOLTS USING 3/8" GRADE 5 BOLT
MINIMUM EDGE DISTANCE = 4.0"
MAXIMUM SHIM THICKNESS = 0.25"



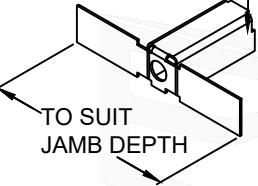
2 3/8" MIN.

16 GA (0.053" MIN)
PIPE SPACER ANCHOR



TO SUIT
JAMB DEPTH

16 GA (0.053" MIN)
EWA ANCHOR



TO SUIT
JAMB DEPTH

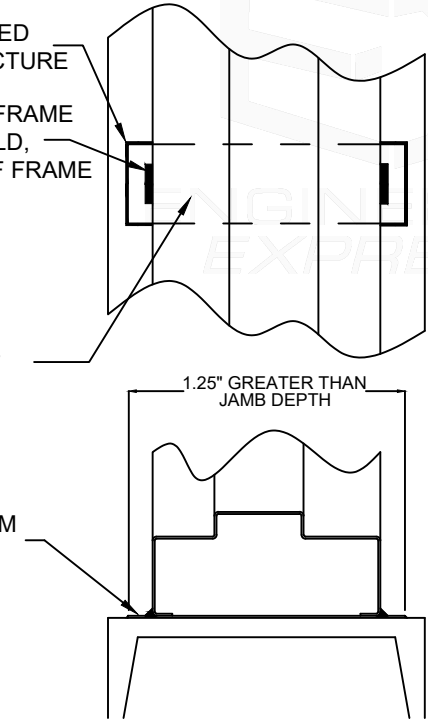
1/4" MAX. THICK A-36 STEEL SHIMS WELDED TO STRUCTURAL BUILDING MEMBER WITH FILLET WELDS MEASURING 2" LONG USING E6018 ELECTRODES. FILLET WELD SIZE SAME AS SHIM THICKNESS FOR 0.053" TO 0.125" SHIM THICKNESS. WELD SIZE 1/8" FOR > 0.125" TO 1/4" SHIM THICKNESS.

STEEL SHIMS WELDED TO BUILDING STRUCTURE

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

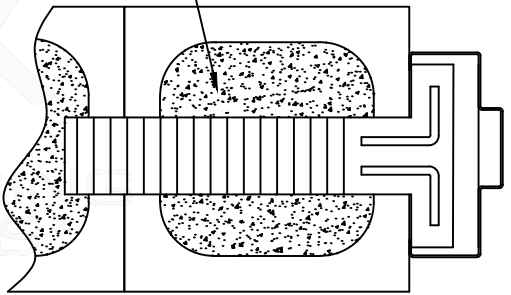
2" X 7" STEEL SHIM PLATE(S), OR TO SUIT FRAME JAMB DEPTH

MAXIMUM SHIM SPACE 1/4"

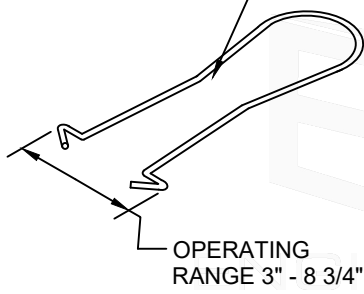


1.25" GREATER THAN JAMB DEPTH

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

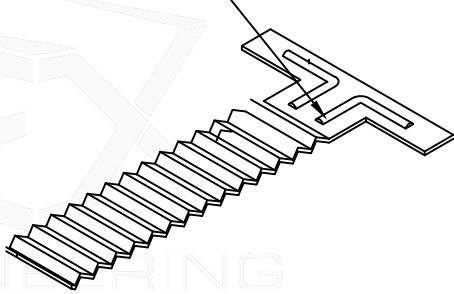


MASONRY WIRE ANCHOR 0.165" DIA. MIN.

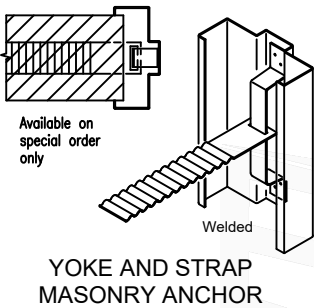


OPERATING RANGE 3" - 8 3/4"

16 GA (0.053" MIN) MASONRY T ANCHOR

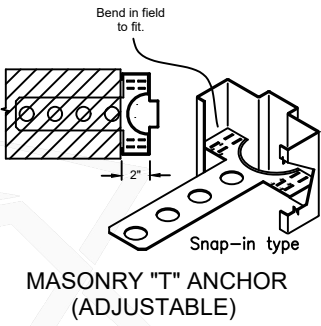


Expansion Shell Anchors Into 1500 psi Grout filled Concrete Masonry Requirements for Jambs			
Up to an including 70 psf			
Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 84"	12	5	19
90	12	5	19
96	12	6	19
Expansion Shell Anchor Requirements for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

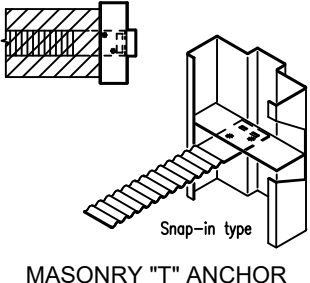


Available on special order only

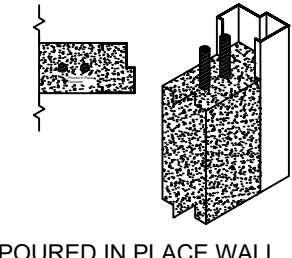
Welded



MASONRY "T" ANCHOR (ADJUSTABLE)



MASONRY "T" ANCHOR



POURED IN PLACE WALL

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

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

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101 ASHBRIDGE CIRCLE
WOODBRIE, ON, CANADA L4L 3R5
COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.1)

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2023 FBC (PREV 20-34843)	10/18/23	AMZ	RS

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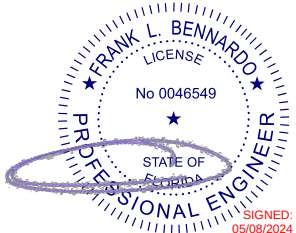
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FLEMING DOOR PRODUCTS FRAME ANCHOR INFORMATION

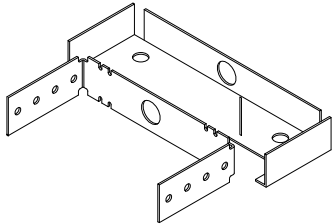
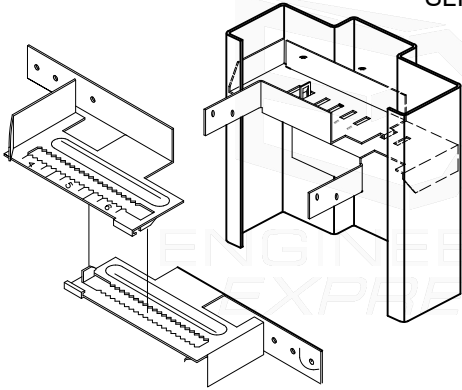
PRODUCTS ILLUSTRATED IN THIS DOCUMENT ARE QUALIFIED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT IS 9 LB 2 X 4 AT 50 FEET PER SECOND OR 350 FT-LB. PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.

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PE# 0046549 CA# 9885

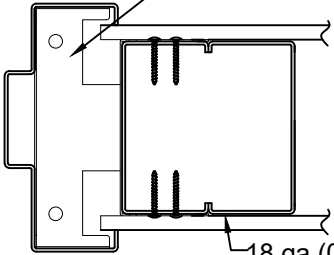


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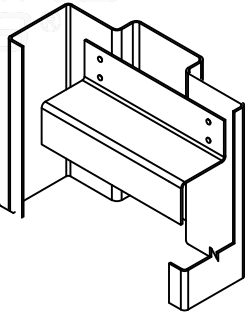
18 ga. (0.041" MIN.)
SLIP-IN STUD ANCHORS



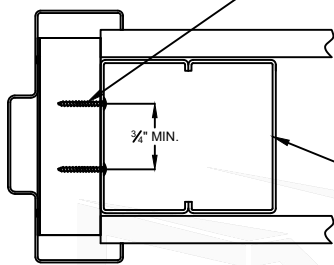
SLIP-IN STUD ANCHOR WELDEED TO
FRAME CONNECT TO STEEL
WITH #8 X 1" GRADE 5 SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EDGE DISTANCE - 0.328"



18 ga (0.041" min.)
STEEL STUDS

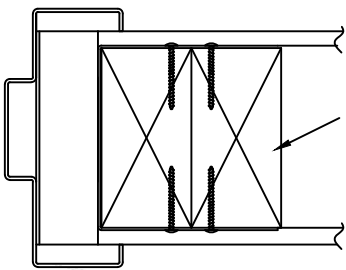
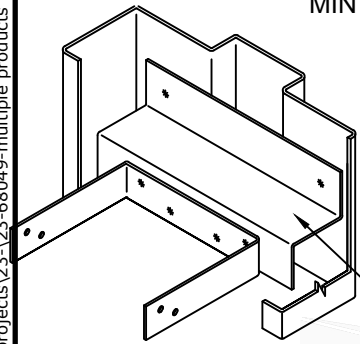


#14 x 1" GRADE 5 SHEET METAL SCREW;
2 SCREWS REQUIRED
PER ANCHOR LOCATION;

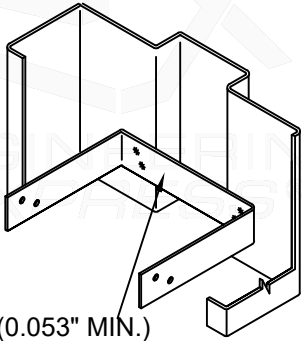


18 ga (0.041" min.)
STEEL STUDS

WELDED WOOD STUD ANCHOR
WITH #8 X 1" GRADE 5 SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EMBEDMENT = 1"MIN EDGE DISTANCE = 0.524"

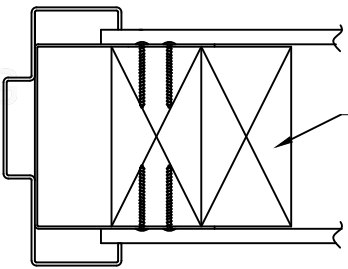


WOOD STUD



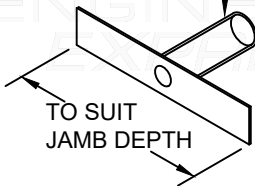
16 ga (0.053" MIN.)
WOOD STUD ANCHOR

WELED WOOD STUD ANCHOR
WITH #8 X 1" GRADE 5 SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EMBEDMENT = 1"MIN EDGE DISTANCE = 0.524

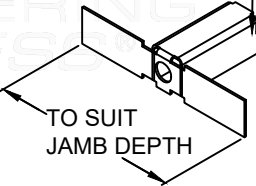


WOOD STUD

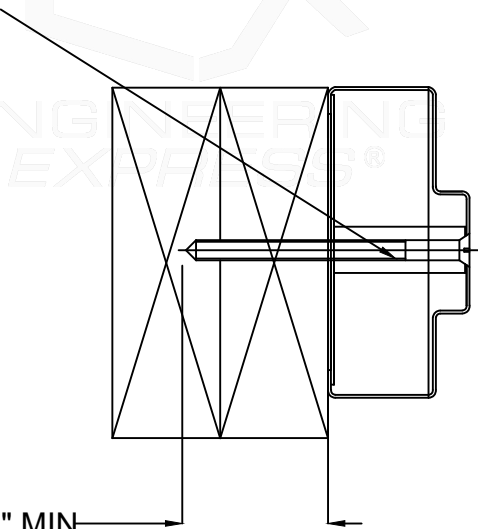
16 GA (0.053" MIN)
PIPE SPACER ANCHOR



16 GA (0.053" MIN)
EWA ANCHOR

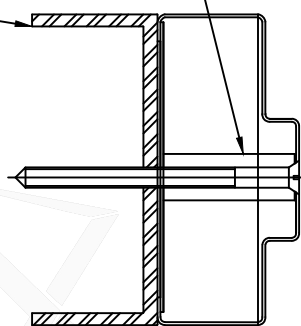


WELDED PIPE SPACER OR EWA ANCHOR
WITH 3/8" WOOD SCREW OR LAG BOLT
MINIMUM EDGE DISTANCE = 1.75"
MAXIMUM SHIM THICKNESS = 0.25"



WELDED PIPE SPACER OR EWA ANCHOR
WITH 3/8" (GRADE 2 MIN.) TAP-IN BOLT
WITH 3 PINCHES PASSED THE THREAD
PLANE. MINIMUM EDGE DISTANCE = 1.75"
MAXIMUM SHIM THICKNESS = 0.25"

1/4" THK. MIN. A36 MIN.
STEEL SUBSTRATE



Stud Anchor Requirements for Paired Frame Jamb			
Up to an including 70 psf			
Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 88"	12	4	22
90"	12	5	22
92"-96"	12	5	22
Stud Anchor Requiremnts for Heads of Paired Frames			
70 psf	4 anchors in the head		

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Door Products
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FLUSH PAIRS OF DOORS (LMI) - FBC (2023)
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2023 FBC (PREV/20-34843)	AMZ	RS	10/18/23

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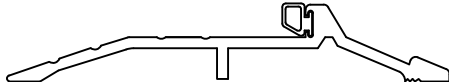
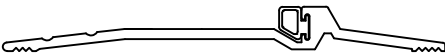
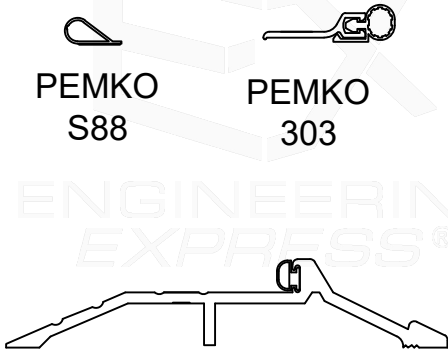
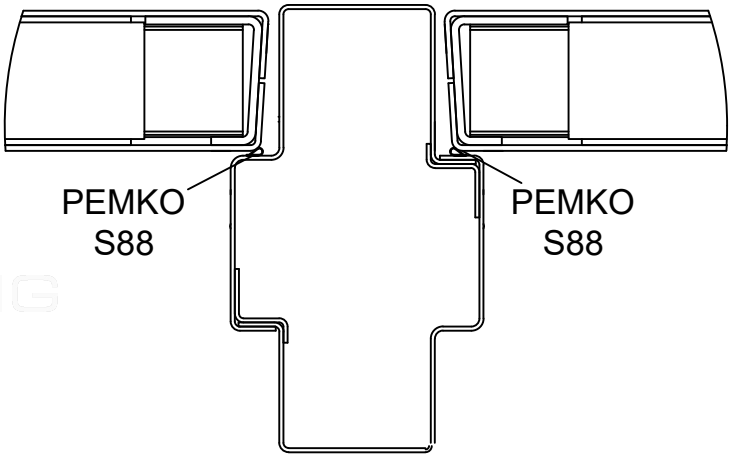
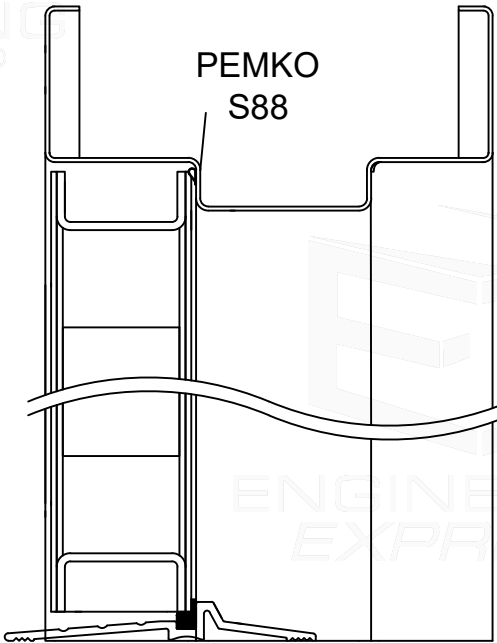
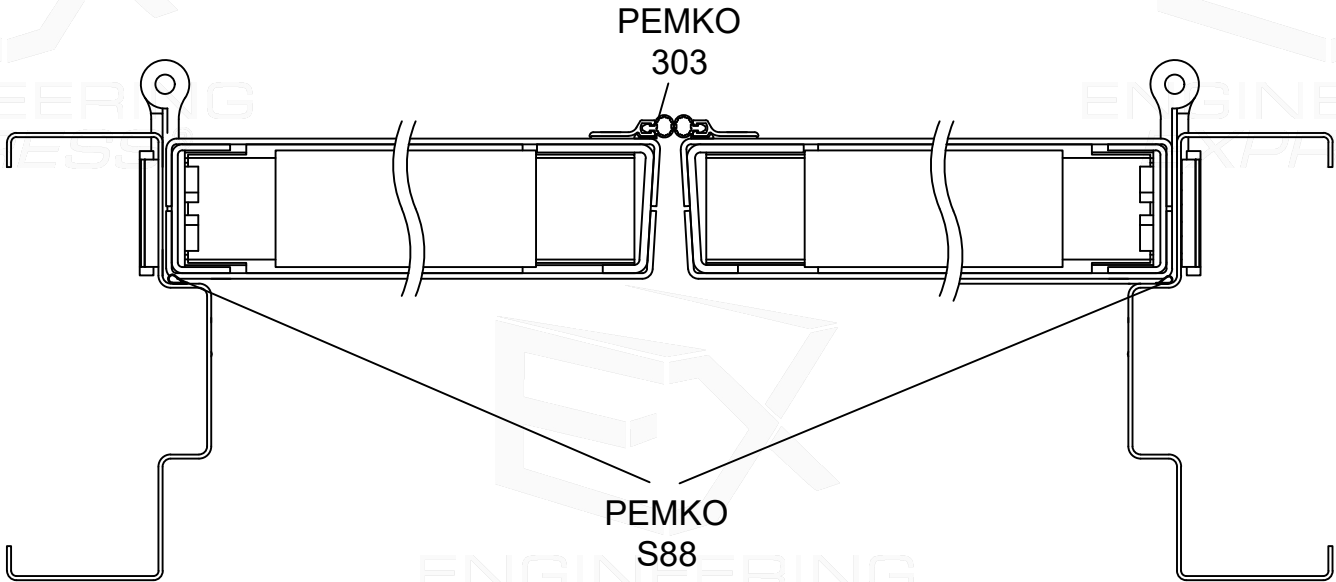
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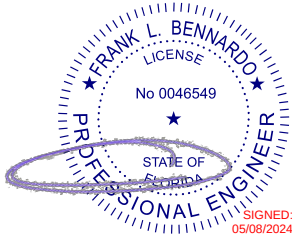
FLEMING DOOR PRODUCTS WEATHERSTRIP INFORMATION

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PEMKO WEATHERSTRIP USED ON PAIRS OF FLEMING DOORS AND FRAMES WHERE WATER INFILTRATION IS NOT REQUIRED.



FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024

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COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.1)

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PEMKO WEATHERSTRIP USED ON PAIRS OF FLEMING DOORS AND FRAMES WHERE WATER INFILTRATION IS REQUIRED.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FRANK L. BENNARDO

PROFESSIONAL ENGINEER

STATE OF FLORIDA

05/08/2024

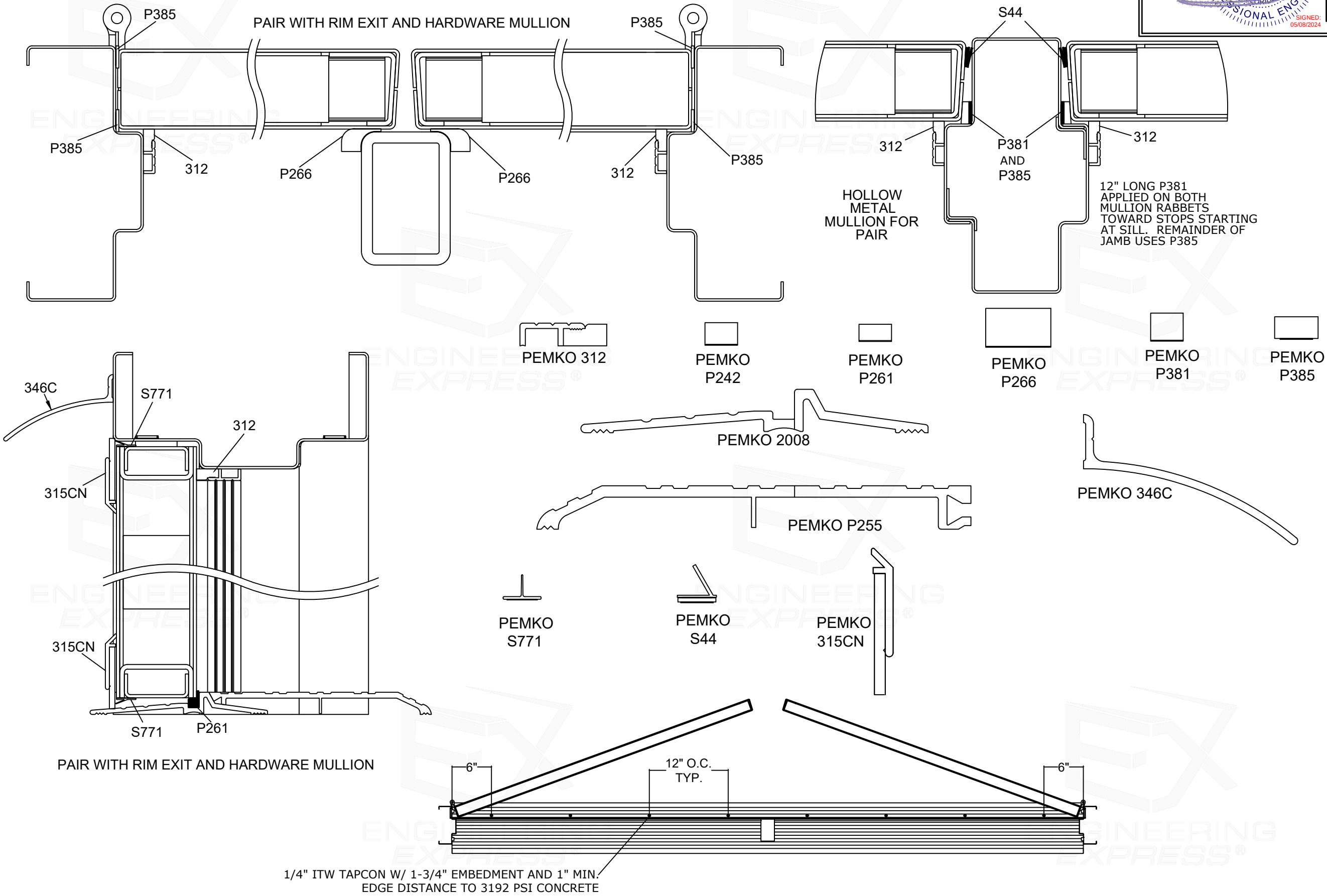
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HARDWARE NOTES

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 CRFE772A, 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 SELP10 AND 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 ASSA ABLOY ACCENTRA 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, H1, H2, KP, LK, LU, M1, N1, N2, PA, PK, PG, 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

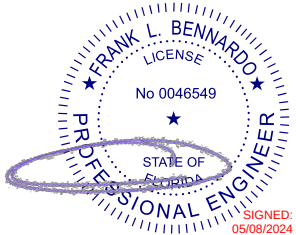
Access Control may be used.

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 ACCENTRA 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
70	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



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2017 FBC UPDATE	JEM	FLB	10/03/17
2020 FBC UPDATE	TAE	FLB	12/17/20
2023 FBC (PREV 20-34843)	AMZ	RS	10/18/23

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SCALE: NTS UNLESS NOTED

09 OF 09

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