

CURRIES

DIVISION OF ASSA ABLOY DOOR GROUP, INC

CURRIES 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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INSTRUCTIONS FOR USING THIS APPROVAL

STEP 1: USE THE DOOR ELEVATIONS PROVIDED ON PAGES 2 THROUGH 5 TO DETERMINE THE APPLICABLE ASSEMBLY NUMBER

STEP 2: MOVE TO THE CHART BELOW THE DOOR ELEVATIONS, ALSO ON PAGES 2 THROUGH 5, 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 6 TO DETERMINE YOUR FRAMING PROFILES AND FRAMING CONSTRUCTION OPTIONS

STEP 4: USE THE TABLES ON PAGE 7 AND 8 TO DETERMINE THE ANCHOR TYPE AND SPACING, BASED ON THE YOUR PRESSURE AND SUBSTRATE CRITERIA

STEP 5: USE THE DETAILS PROVIDED ON PAGE 9 AND 10 TO DETERMINE YOUR WEATHERSTRIPPING OPTIONS

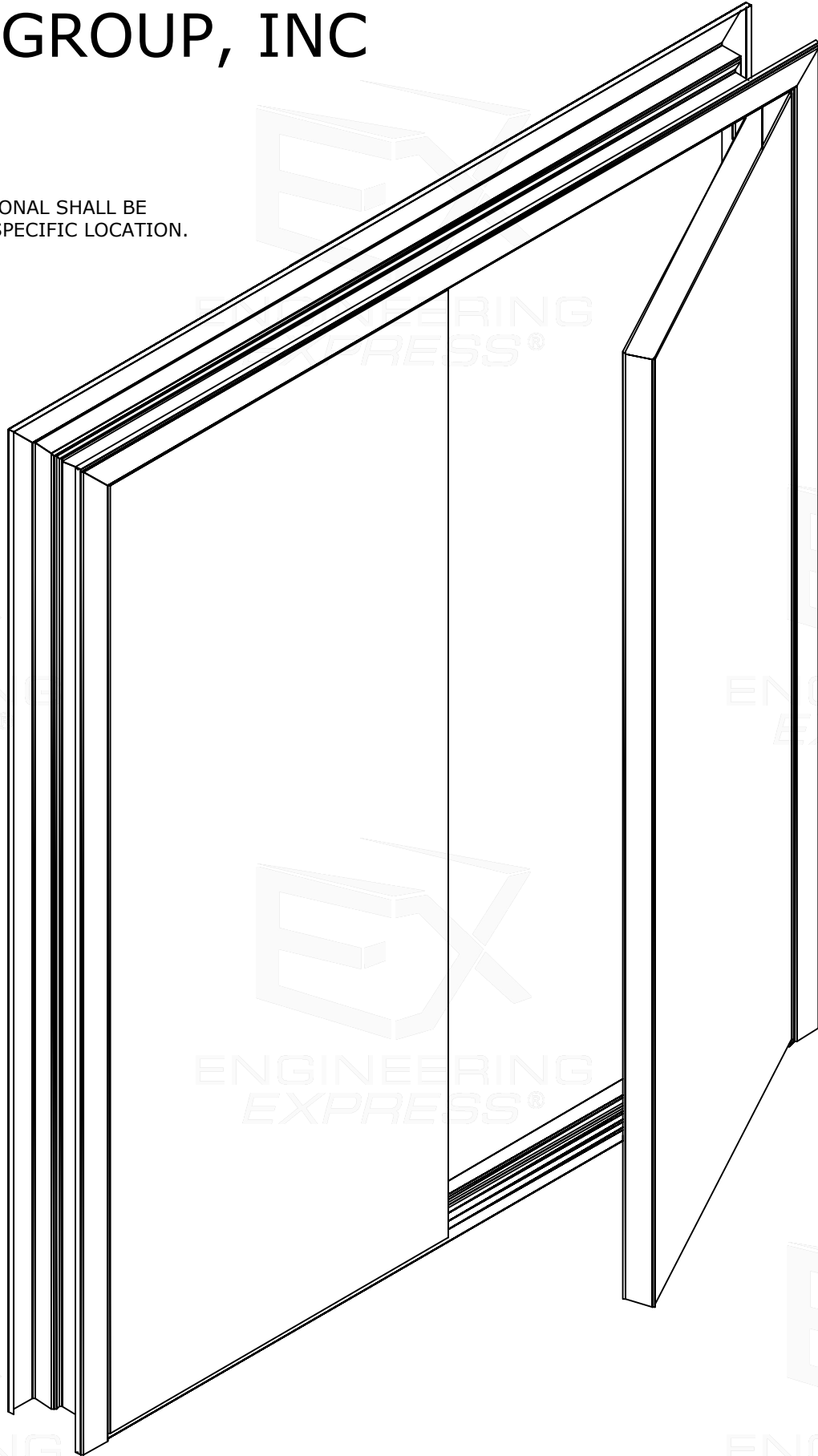
SHEET INDEX

# SHEET	DESCRIPTION
1	COVER SHEET
2-5	ASSEMBLY OPTIONS
6	DOOR FRAME DETAILS
7-8	DOOR FRAME ANCHORING INFORMATION
9-10	DOOR FRAME WEATHER STRIPPING INFORMATION
11-12	MANUFACTURERS AND ENGINEERING NOTES
12	TOTAL

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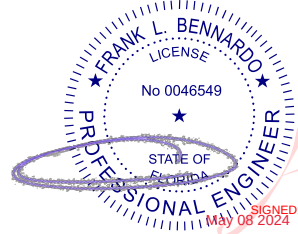
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& MORE INFORMATION ABOUT THIS DOCUMENT
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ASSA ABLOY, the global leader in door opening solutions.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



Digitally signed by
Frank Bennardo
Date: 2024.05.08
17:57:59 -04'00'

FL# 16353.1

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1502 12TH STREET NW
MASON CITY, IA 50401

CURRIES

ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16353.1)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (12-CUI-03G-01)	KL	FLB	06/28/13
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2023 FBC (PREV 20-34815)	AMZ	RS	10/18/23

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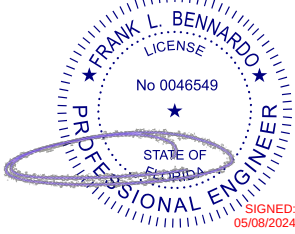
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CURRIES FLUSH PAIRS OF DOORS

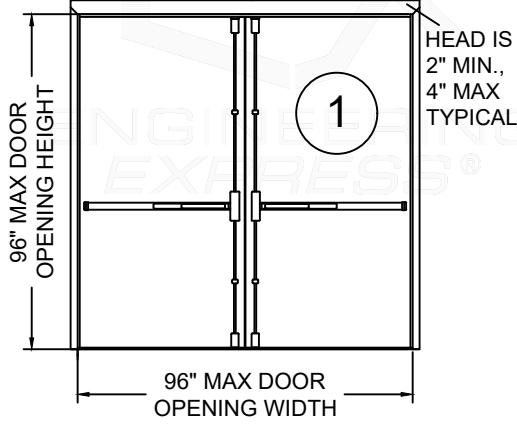
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FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024

SURFACE VERTICAL
ROD EXIT DEVICE



96" MAX DOOR
OPENING HEIGHT

96" MAX DOOR
OPENING WIDTH

HEAD IS
2" MIN.,
4" MAX
TYPICAL

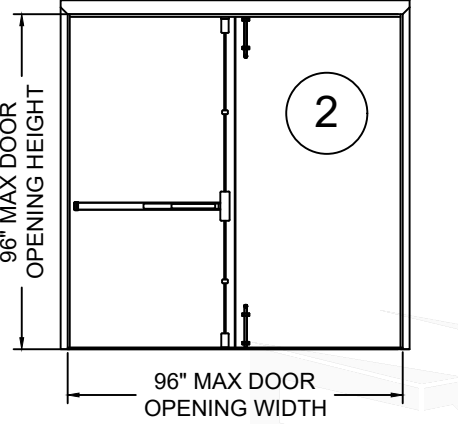
1

ASSEMBLY 1

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

SURFACE VERTICAL
ROD EXIT DEVICE

SURFACE
BOLTS



96" MAX DOOR
OPENING HEIGHT

96" MAX DOOR
OPENING WIDTH

2

ASSEMBLY 2

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

MULTI-POINT
LOCK

SURFACE
BOLTS



96" MAX DOOR
OPENING HEIGHT

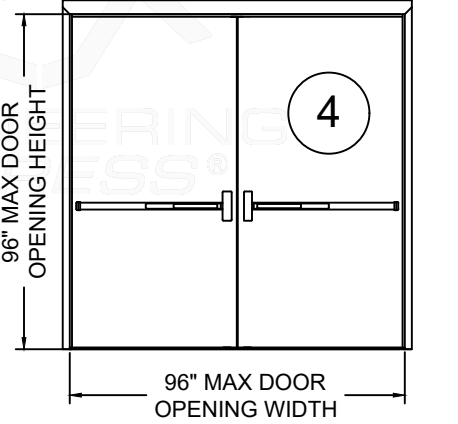
96" MAX DOOR
OPENING WIDTH

3

ASSEMBLY 3

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

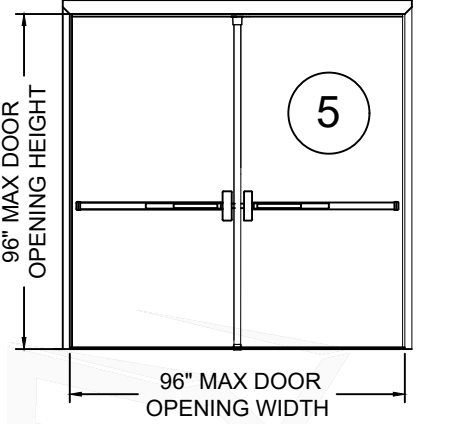
96" MAX DOOR
OPENING WIDTH

4

ASSEMBLY 4

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

5

ASSEMBLY 5

Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70PSF	+/-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	707, 747	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
②	707, 747	14	150	150	96	96	*Out Swing	Surface Vertical Rod	Sargent	HC4-8700, 12-HC4-8700	Surface Bolt	Sargent	988
③	707, 747	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
④	707, 747, 777	16 777 -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-MD-12-8600, WS-MD-8600, WS-MD-12-8600
⑤	707, 727, 747, 777, 777 847	16 777 -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
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.

** 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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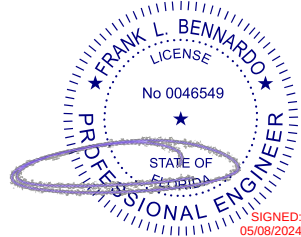
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CURRIES FLUSH PAIRS OF DOORS

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FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024

SURFACE VERTICAL
ROD EXIT DEVICE

CONCEALED TWO
POINT LOCK

CYLINDRICAL LOCK &
CYLINDRICAL
DEAD BOLT

FLUSH
BOLTS

CYLINDRICAL LOCK &
CYLINDRICAL
DEAD BOLT

SURFACE
BOLTS

MORTISE LOCK
LATCH BOLT
& DEAD BOLT

FLUSH
BOLTS

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
+/-70 PSF	+/-60 PSF

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

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

ASSEMBLY 10	
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
6	707, 727, 747, 777, 847	16 777 -18	70	70	96	96	Out Swing	Surface Vertical Rod	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5470(B) x M107 HC4-8700, 12-HC4-8700 7170(F)WS	Surface Vertical Rod	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5470(B) x M107 HC4-8700, 12-HC4-8700 7170(F)WS
7	707, 727, 747, 777, 847	16 777 -18	70	70	96	96	Out Swing	Concealed Two Point Lock	Sargent Corbin Russwin	WS-12-7000, HC-12-7000 MP9800 (A/B) x M107	Concealed Two Point Lock	Sargent Corbin Russwin	WS-12-7000, HC-12-7000 MP9800 (A/B) x M107
8	777	18	70	70	96	96	In Swing or Out Swing	Cylindrical Lock & Cylindrical Dead Bolt	Corbin Russwin Sargent	CL3100 DL3200 Dead Bolt 11 Line 480 Dead Bolt	Flush Bolt	Rockwood	556WS
9	777	18	70	70	96	96	In Swing or Out Swing	Cylindrical Lock & Cylindrical Dead Bolt	Corbin Russwin Sargent	CL3100 DL3200 Dead Bolt 11 Line 480 Dead Bolt	Surface Bolt	Corbin Russwin Sargent	988CR 988
10	777	18	70	70	96	96	In Swing or Out Swing	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ML2000 7800, 8200, R8200 8800	Flush Bolt	Rockwood	556WS
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.											

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

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MASON CITY, IA 50401
ASSA ABLOY
COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LM1) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL# 16353.1)

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2020 FBC UPDATE	TAE	FLB	12/17/20
2023 FBC (REV/20-3481g)	AMZ	RS	10/18/23

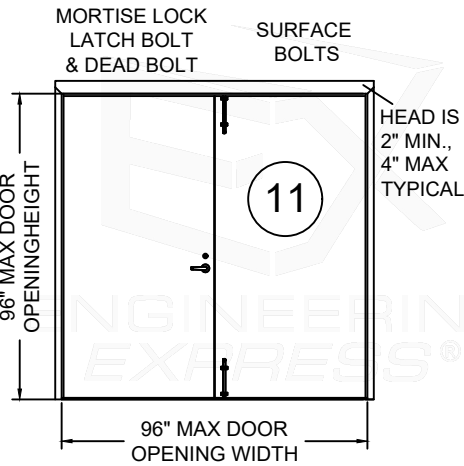
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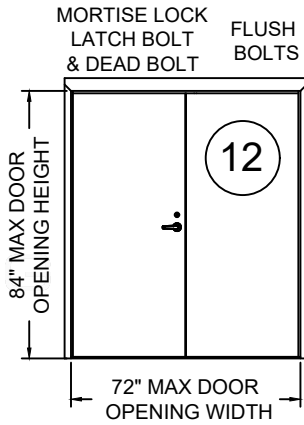
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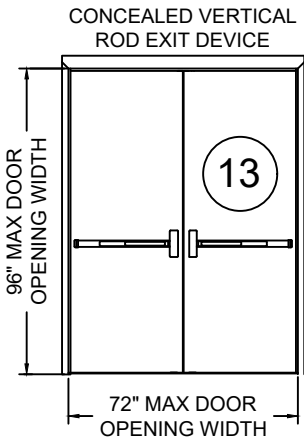
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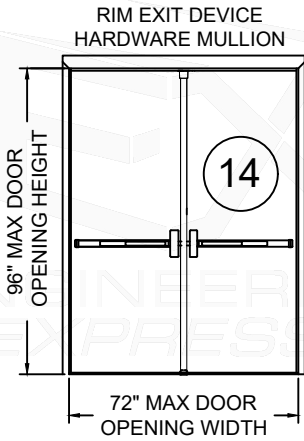
ASSEMBLY 11	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-60 PSF



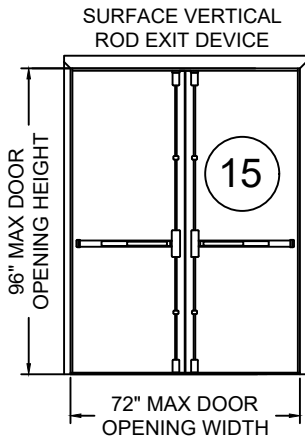
ASSEMBLY 12	
Design Pressure Where Water Infiltration Is NOT Needed	Design Pressure Where Water Infiltration IS Needed
+/-70 PSF	+/-60 PSF



ASSEMBLY 13	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-70 PSF

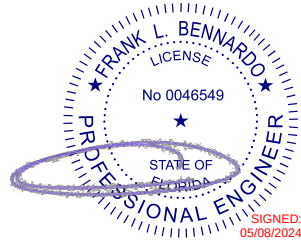


ASSEMBLY 14	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60PSF	+/-60 PSF



ASSEMBLY 15	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-60 PSF

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



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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			
⑪	707, 727, 747, 777, 847	16 777 -18	70	70	96	96	In Swing or 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				
⑫	707, 727, 747, 777, 847	16 777 -18	70	70	72	84	In Swing or Out Swing	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000	Flush Bolt	Rockwood	556WS			
							Sargent		7800, 8200, R8200							
							ASSA ABLOY ACCENTRA		8800							
⑬	707, 727, 747, 847	16	60	60	72	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			
⑭	707, 727, 747, 847	16	60	60	72	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					
⑮	707, 727, 747, 847	16	60	60	72	96	Out Swing	Surface Vertical Rod	Corbin Russwin	ED5470 x M107	Surface Vertical Rod	Corbin Russwin	ED5470 x M107			
							Sargent		HC8700, 12-HC8700	Sargent		HC8700, 12-HC8700				
							ASSA ABLOY ACCENTRA		7170(F)WS	ASSA ABLOY ACCENTRA		7170(F)WS				
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														
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		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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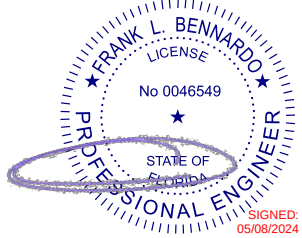
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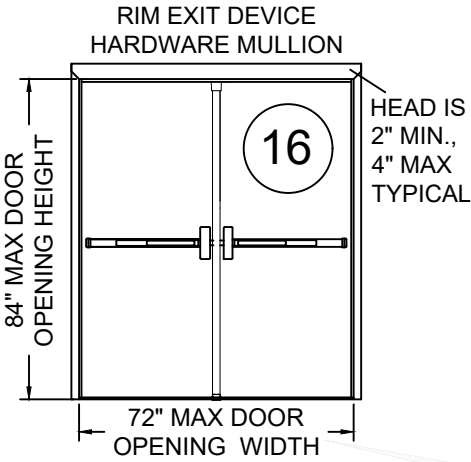
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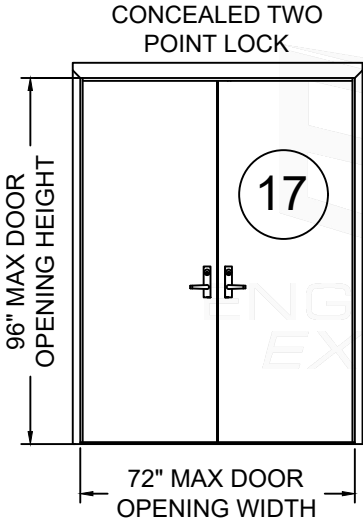
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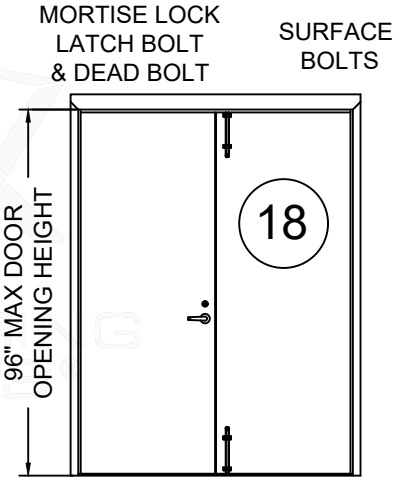
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ASSEMBLY 16	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60PSF	+/-60 PSF



ASSEMBLY 17	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-60 PSF



ASSEMBLY 18	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 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
16	607, 707, 727, 747, 847	18	60	60	72	84	Out Swing	Rim Exit Device	Corbin Russwin	ED5200S(A) x M107	Rim Exit Device	Corbin Russwin	ED5200S(A) x M107
									Sargent	12-HC8800, HC8800		Sargent	12-HC8800, HC8800
									ASSA ABLOY ACCENTRA	7150(F)WS/7250M(F)WS		ASSA ABLOY ACCENTRA	7150(F)WS/7250M(F)WS
17	707, 727, 747, 847	16	60	60	72	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
									Corbin Russwin	ML2000		Corbin Russwin	988CR
18	707, 727, 747, 847	16	60	60	72	96	In Swing or Out Swing	Mortise Lock Latch Bolt & Dead Bolt	Sargent	7800, 8200, R8200	Surface Bolt	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.											

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

** 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.

FL# 16353.1

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MASON CITY, IA 50401
ASSA ABLOY
COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16353.1)

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2023 FBC (PREV 20-34815)	10/18/23	AMZ	RS

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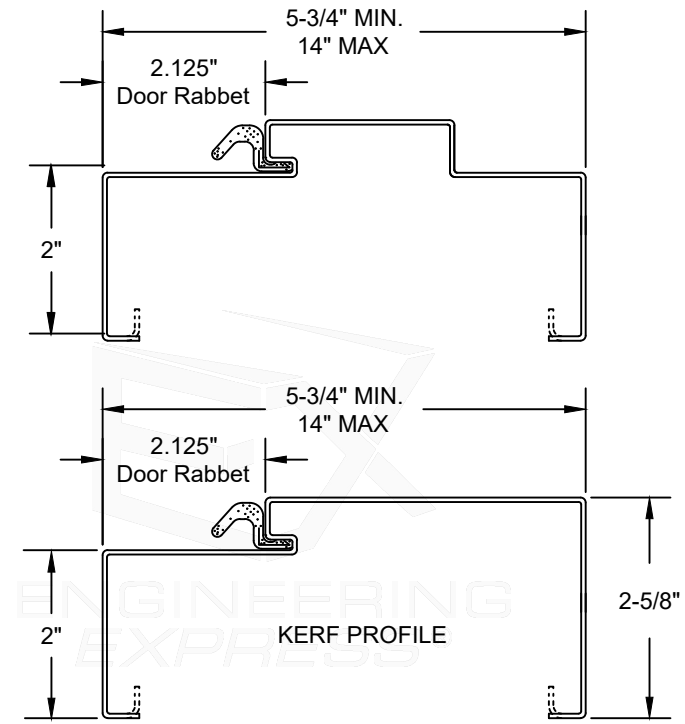
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FRANK BENNARD, PE
PE# 0046549 CA# 9885



MAY 8, 2024

SIGNED:
05/08/2024



Technical drawings illustrating various installation methods for KD corners and face welded KD corners using 10 Ga. "C" channels and foot clips.

Top Row:

- KD CORNER:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint.
- FACE WELDED CORNER:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.
- FACE WELDED KD CORNER:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.
- FACE WELDED KD CORNER:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.
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- FACE WELDED KD CORNER:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.

Bottom Row:

- KD CORNER:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint.
- FACE WELDED ONLY:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.
- FACE WELDED ONLY:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.
- FACE WELDED ONLY:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.
- FACE WELDED ONLY:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.
- FACE WELDED ONLY:** Shows a corner joint with a 10 Ga. "C" channel installed over the joint, with welds on the face.

Right Side:

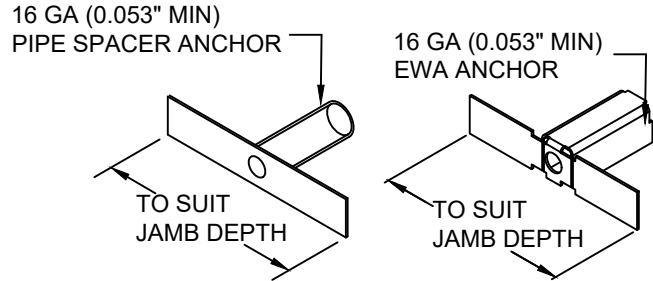
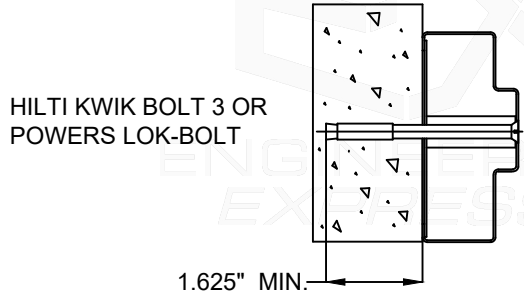
- 3/4" LEG OF 10 GA. "C" CHANNELS FULLY WELDED TO HOLLOW METAL VERTICAL MULLION:** Shows a vertical mullion with 10 Ga. "C" channels fully welded to it.
- 3/4" LEG OF 10 GA. "C" CHANNELS FULLY WELDED TO HOLLOW METAL VERTICAL MULLION:** Shows a vertical mullion with 10 Ga. "C" channels fully welded to it.
- 12 GAUGE FOOT CLIP CLIPS REQUIRED AT BASE OF HOLLOW METAL MULLION:** Shows a vertical mullion with 12 gauge foot clip clips required at the base.
- USE (2) FOOT CLIPS WITH 3/8" HILTI KWIK-BOLT III WITH 1.625" MIN. EMBED AND 4" EDGE DISTANCE TO 3KSI CONCRETE, 4" MIN. SPACING. USE (4) FOOT CLIPS WITH 3/8" LAG SCREWS TO G=0.55 MIN. WOOD W/ 3" MIN. EMBED, 1.75" MIN. EDGE DISTANCE, AND 2.5" MIN. SPACING.** Shows a vertical mullion with foot clips required at the base.
- CONTINUOUSLY WELDED ON BOTH ENDS AT SEAMS:** Shows a vertical mullion with 10 Ga. "C" channels continuously welded on both ends at seams.
- 10 Ga. "C" Channels must be installed before welding together:** Shows a vertical mullion with 10 Ga. "C" channels installed before welding together.

06

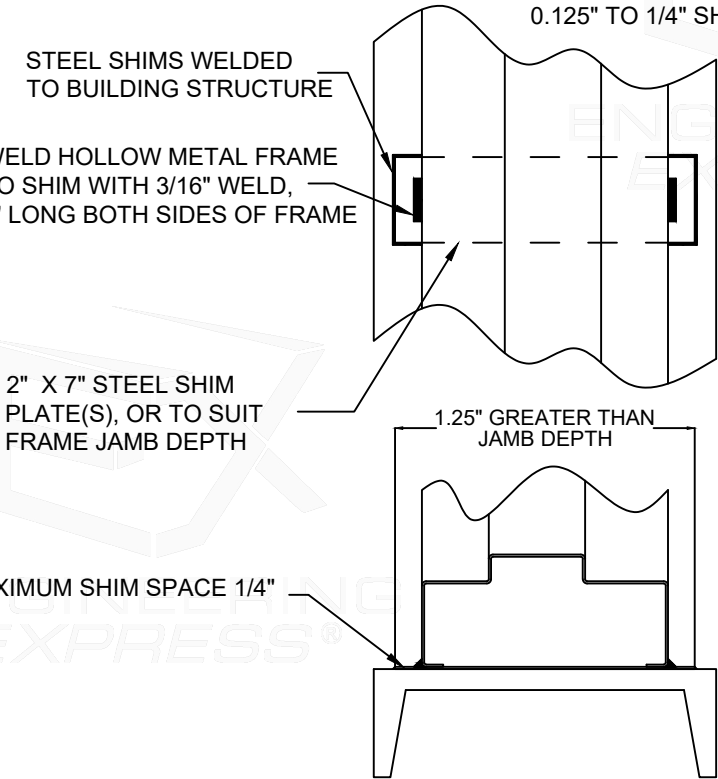
CURRIES FRAME ANCHOR INFORMATION

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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" FOR CONCRETE
MINIMUM EDGE DISTANCE = 3 3/4" FOR C.M.U
MAXIMUM SHIM THICKNESS = 0.25"

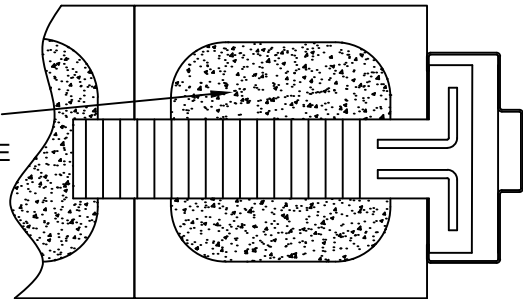


STEEL SHIMS WELDED TO BUILDING STRUCTURE
WELD HOLLOW METAL FRAME TO SHIM WITH 3/16" WELD, 1" LONG BOTH SIDES OF FRAME



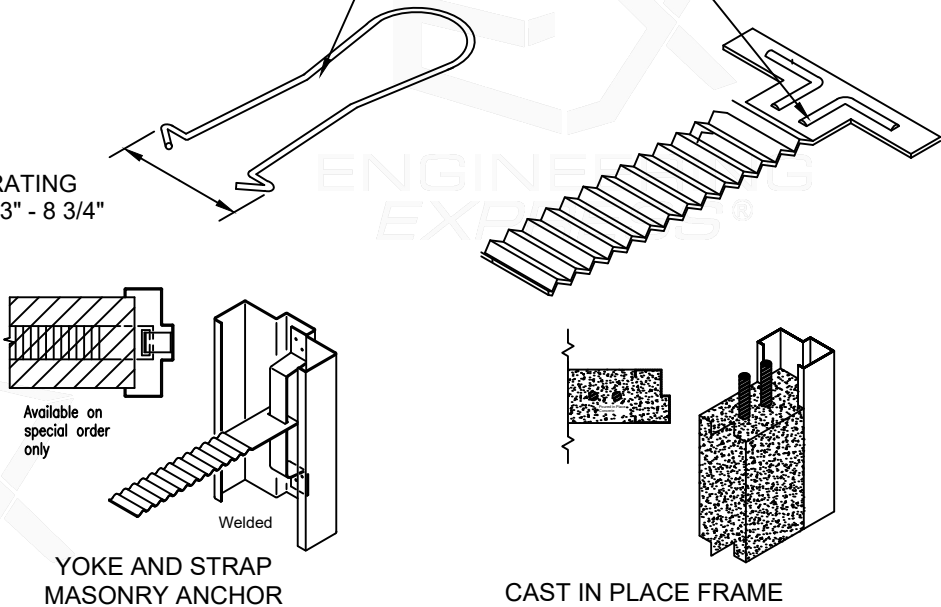
1/4" MAX. THICK A-36 STEEL SHIMS WELDED TO STRUCTURAL BUILDING MEMBER WITH FILLET WELDS MEASURING 2" LONG AND SIZED AS FOLLOWS USING E6018 ELECTRODES. FILLET WELD SIZE SAME AS SHIM THICKNESS FOR 0.053" TO 0.125" SHIM THICKNESS. WELD SIZE 1/8" FOR > 0.125" TO 1/4" SHIM THICKNESS.

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



MASONRY WIRE ANCHOR 0.165" DIA. MIN.
16 GA (0.053" MIN) MASONRY T ANCHOR

OPERATING RANGE 3" - 8 3/4"

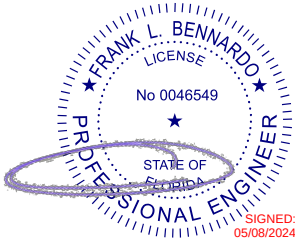


Expansion Shell Anchors Into 1500 psi Grout filled Concrete Masonry Requirements for Jamb						
Up to an including 70 psf				150 psf		
Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing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

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024

FL# 16353.1

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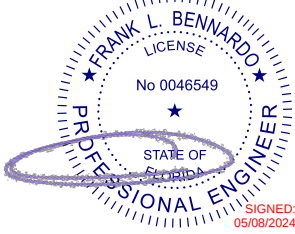
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07 OF 11

CURRIES FRAME ANCHOR INFORMATION

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PE# 0046549 CA# 9885



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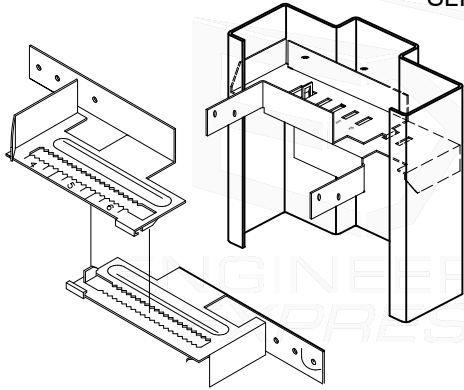
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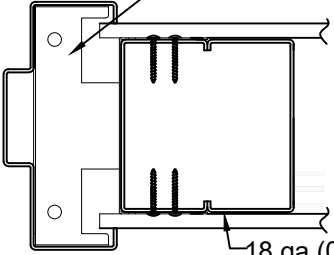
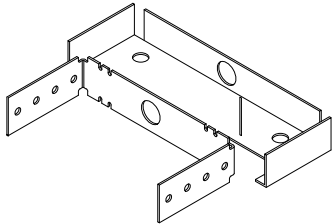
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08 OF 11

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

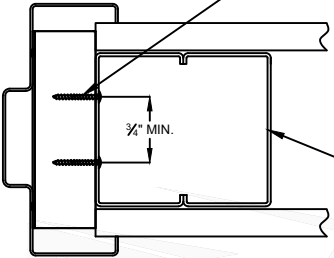


SLIP-IN STUD ANCHOR WELDEED TO
FRAME CONNECT TO STEEL
WITH #8 X 1" GRADE 5 SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EDGE DISTANCE - 0.328"



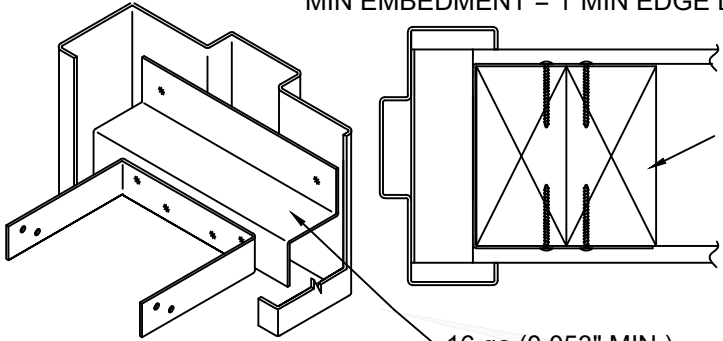
18 ga (0.041" min.)
STEEL STUDS

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



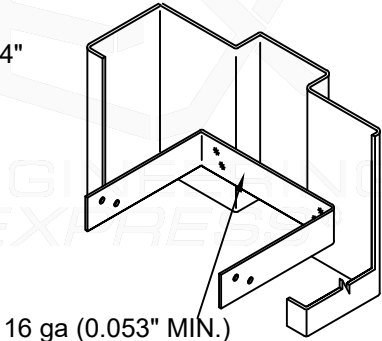
18 ga (0.041" min.)
STEEL STUDS

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"



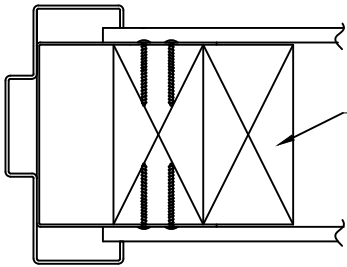
16 ga (0.053" MIN.)
WOOD STUD ANCHOR

WOOD STUD



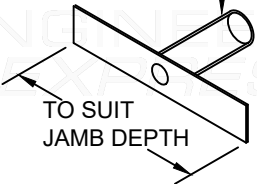
16 ga (0.053" MIN.)
WOOD STUD ANCHOR

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



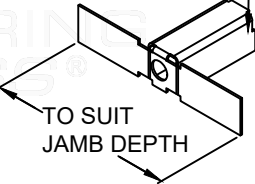
WOOD STUD

16 GA (0.053" MIN)
PIPE SPACER ANCHOR



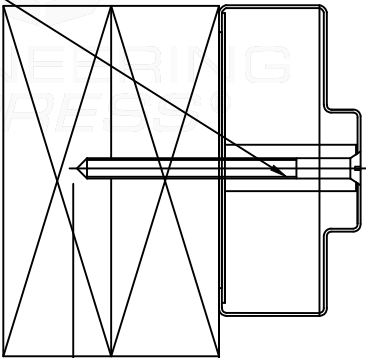
TO SUIT
JAMB DEPTH

16 GA (0.053" MIN)
EWA ANCHOR



TO SUIT
JAMB DEPTH

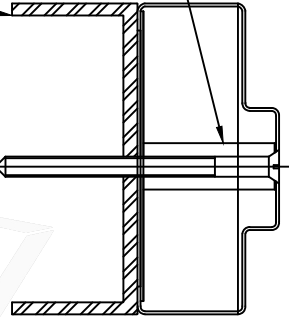
WELDED PIPE SPACER OR EWA ANCHOR
WITH 3/8" WOOD SCREW OR LAG BOLT
MINIMUM EDGE DISTANCE = 1.75"
MAXIMUM SHIM THICKNESS = 0.25"



3.0" MIN

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 Jambs						
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	22	12	6	12
90"	12	5	22	12	7	12
92"-96"	12	5	22	12	7	12
Stud Anchor Requirements for Heads of Paired Frames						
70 psf	4 anchors in the head		150 psf	8 anchors in the head		

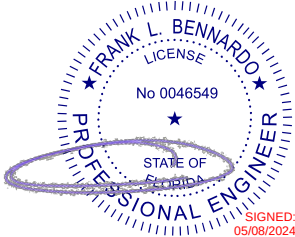
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CURRIES WEATHERSTRIP INFORMATION

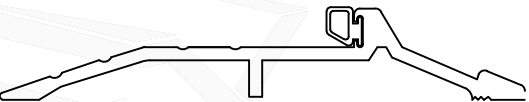
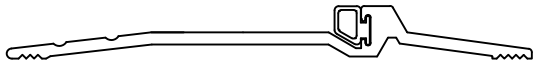
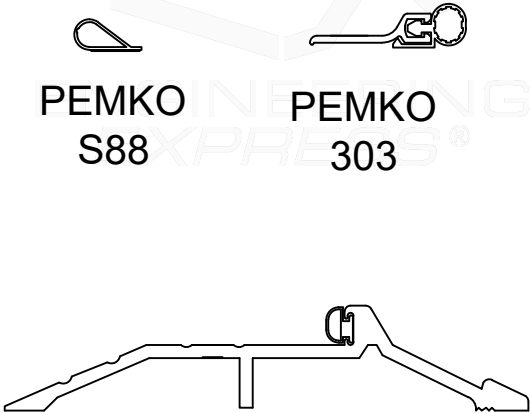
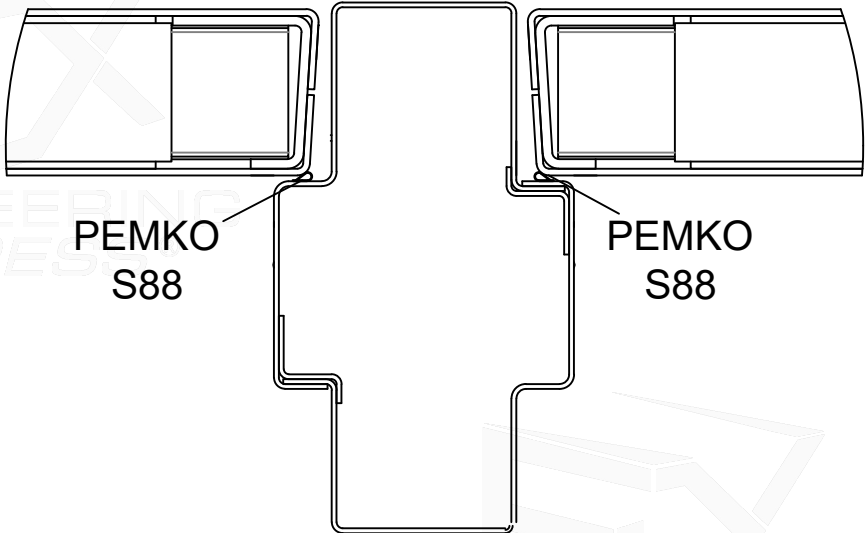
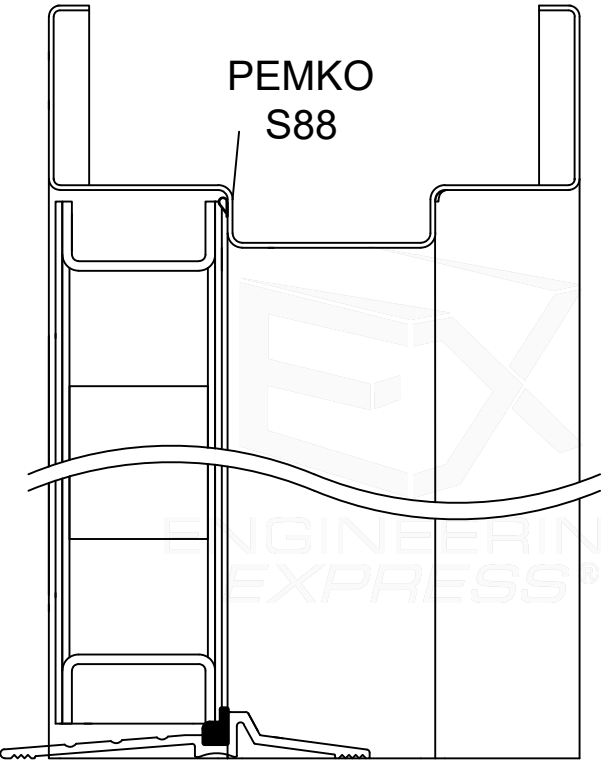
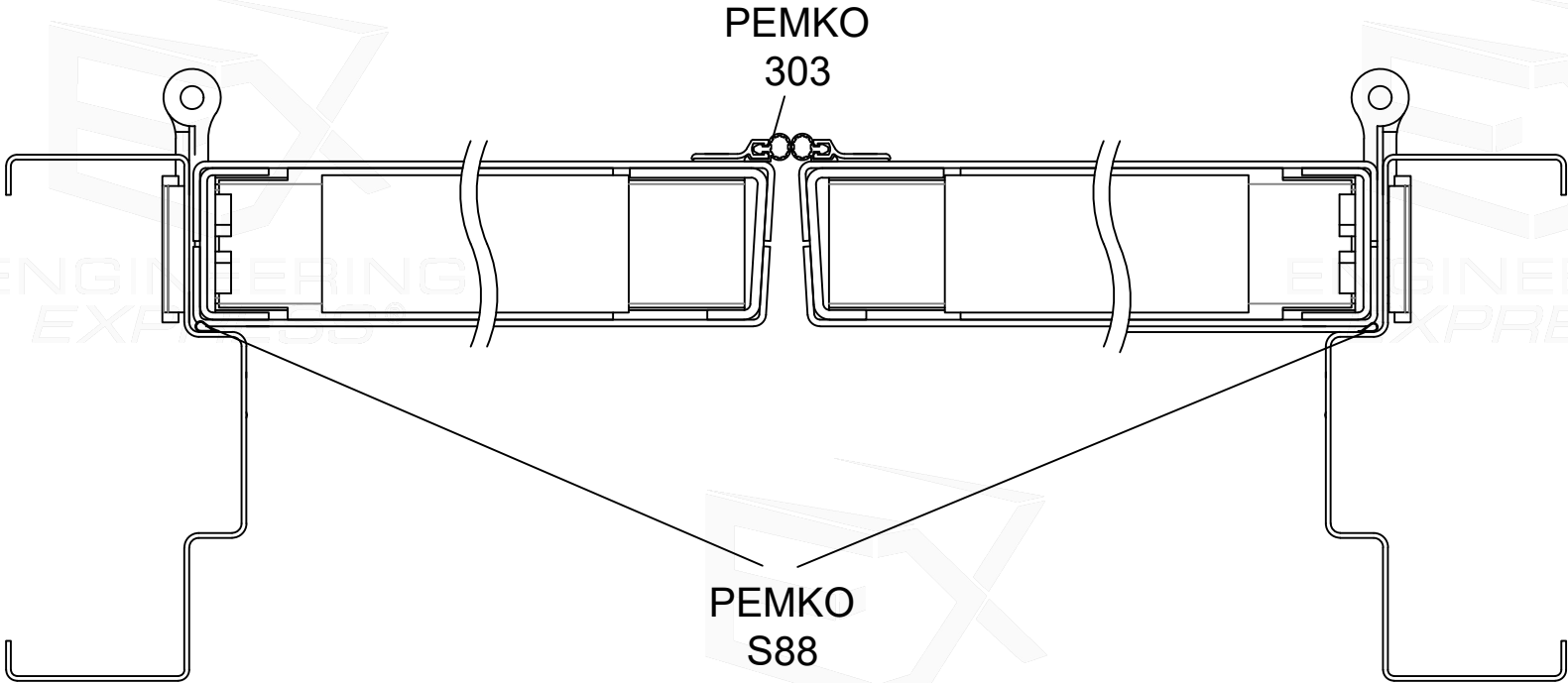
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PEMKO WEATHERSTRIP USED ON CURRIES DOORS AND FRAMES WHERE WATER INFILTRATION IS NOT REQUIRED.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024



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2023 FBC (PREV 20-34815)	AMZ	RS	10/18/23

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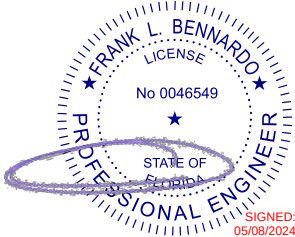
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CURRIES WEATHERSTRIP INFORMATION

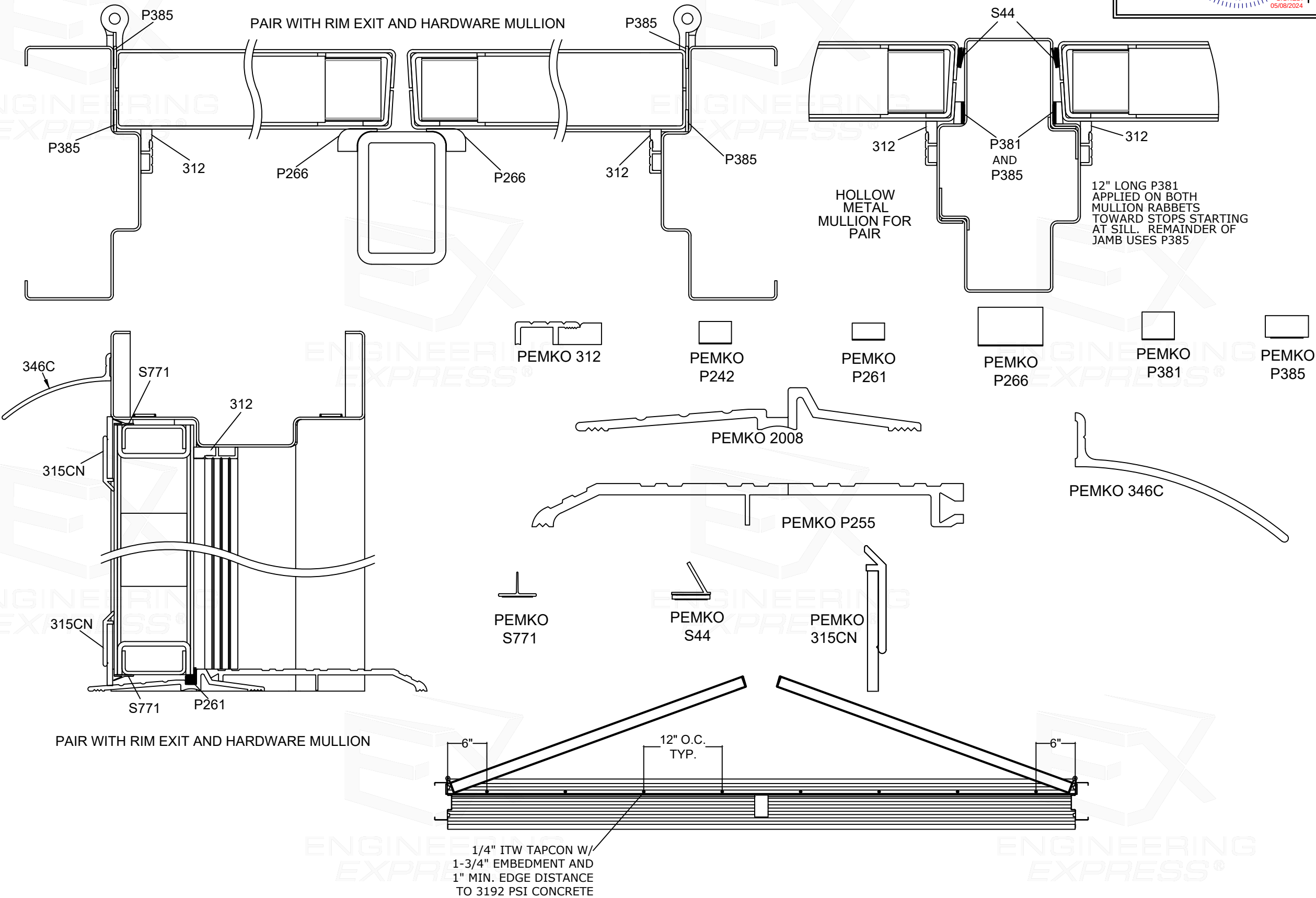
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PEMKO WEATHERSTRIP USED ON CURRIES DOORS AND FRAMES WHERE WATER INFILTRATION IS REQUIRED.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024



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ASSA ABLOY

1502 12TH STREET NW
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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 IN 120 ACCESS CONTROL MAY BE USED WITH CL3300 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, AND 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

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.

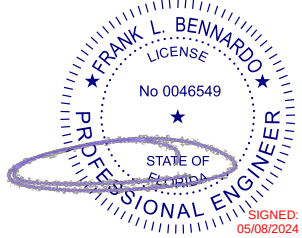
SECURITRON

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					

ASSA ABLOY, the global leader in door opening solutions.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

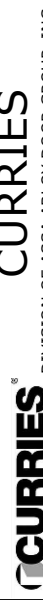


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COMMERCIAL STEEL EXTERIOR DOORS
FLUSH PAIRS OF DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16353.1)

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 (REV 20-34815)	AMZ	RS	10/18/23

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SCALE: NTS UNLESS NOTED