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FLEMING DOOR PRODUCTS

DIVISION OF ASSA ABLOY DOOR GROUP, INC.

FLEMING GLAZED & LOUVERED SINGLE 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.

**NOTE REGARDING USE OF THIS DOCUMENT &
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INSTRUCTIONS FOR USING THIS APPROVAL

STEP 1: USE THE DOOR ELEVATIONS PROVIDED ON PAGE 2 THROUGH 9 TO DETERMINE THE APPLICABLE ASSEMBLY NUMBER

STEP 2: MOVE TO THE CHART BELOW THE DOOR ELEVATIONS, ALSO ON PAGE 2 THROUGH 9, 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 PANELS.**

STEP 3: USE PAGES 11 THROUGH 14 TO DETERMINE YOUR GLAZING METHOD

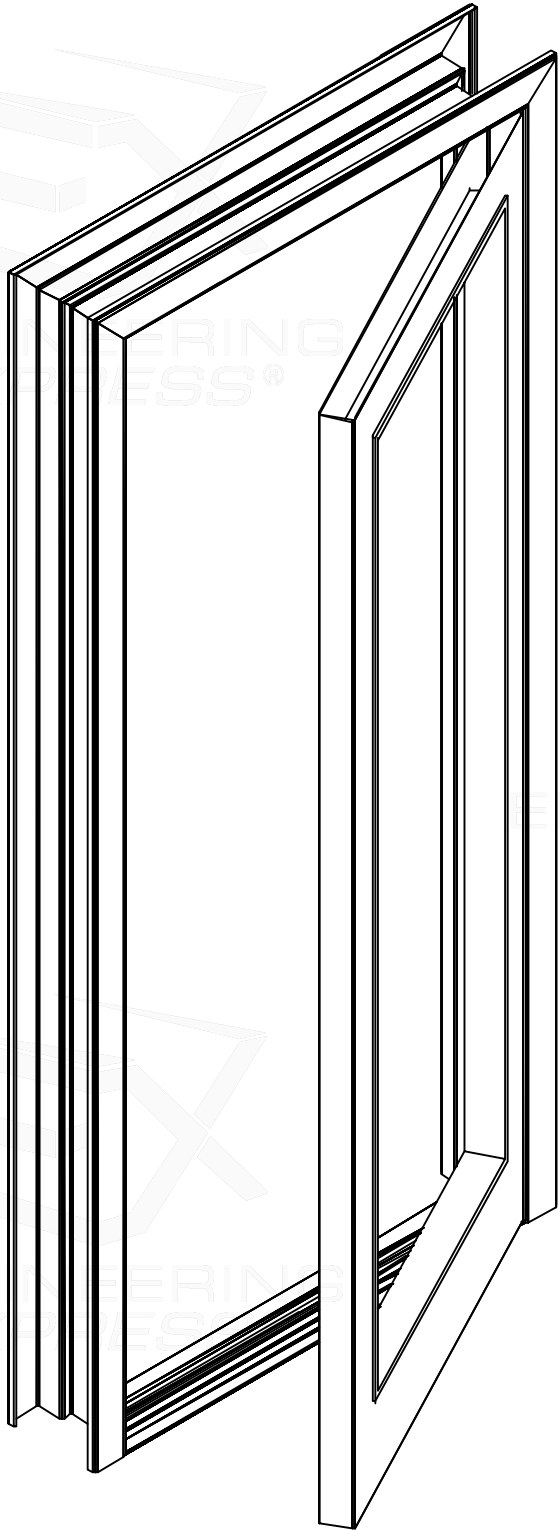
STEP 4: USE PAGE 15 TO DETERMINE YOUR FRAMING PROFILES AND FRAMING CONSTRUCTION OPTIONS

STEP 5: USE THE TABLES ON PAGE 16 AND 17 TO DETERMINE THE ANCHOR TYPE AND SPACING, BASED ON THE YOUR PRESSURE AND SUBSTRATE CRITERIA

STEP 6: USE THE DETAILS PROVIDED ON PAGE 18 AND 19 TO DETERMINE YOUR WEATHERSTRIPPING OPTIONS

SHEET INDEX

# SHEET	DESCRIPTION
1	COVER SHEET
2-9	ASSEMBLY OPTIONS
10	OPTIONAL ASSEMBLY OPTIONS
11-14	GLAZING DETAILS
15	DOOR FRAME DETAILS
16-17	DOOR FRAME ANCHORING INFORMATION
18-19	DOOR FRAME WEATHER STRIPPING INFORMATION
20	MANUFACTURERS AND ENGINEERS NOTES
20	TOTAL



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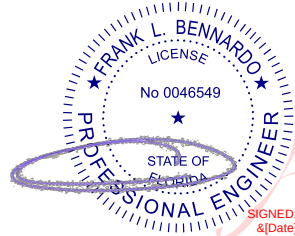
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PE# 0046549 CA# 9885



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DIVISION OF ASSA ABLOY DOOR GROUP, INC.

101 ASHBRIDGE CIRCLE
WOODBRIE, ON, CANADA L4L 3R5

Fleming
Door Products
ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.4)

REMARKS	DRWN	CHKD	DATE
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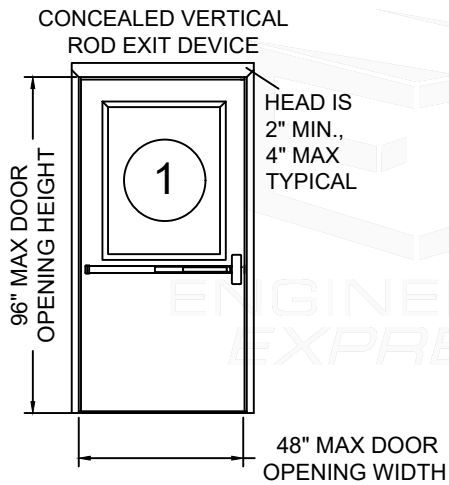
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ASSA ABLOY, the global leader in door opening solutions.

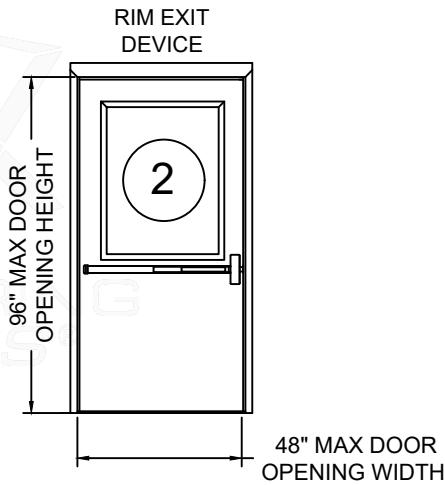
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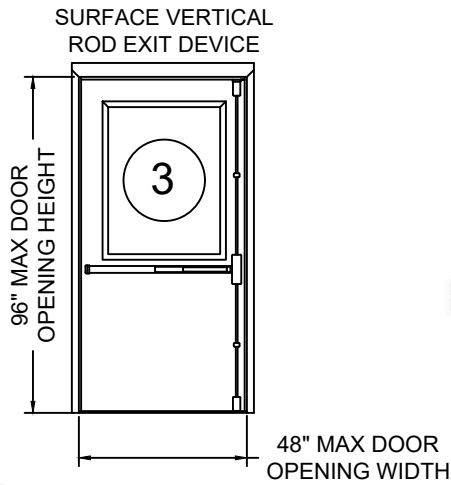
PRODUCTS ILLUSTRATED IN THIS DOCUMENT ARE QUALIFIED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT IS 9 LB 2 X 4 AT 50 FEET PER SECOND OR 350 FT-LBS. PRODUCT MEETS REQUIREMENTS OF HIGH VELOCITY HURRICANE ZONE.



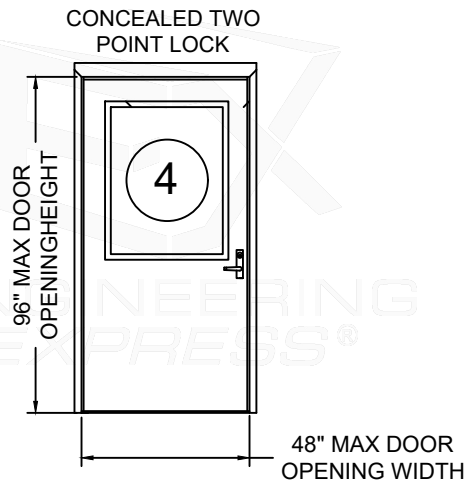
ASSEMBLY 1	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



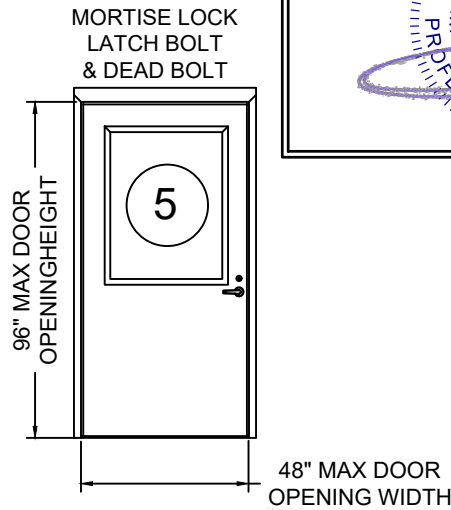
ASSEMBLY 2	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



ASSEMBLY 4	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF

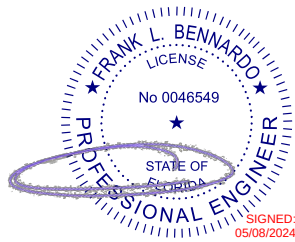


ASSEMBLY 5	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



ASSEMBLY 5	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF

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PE# 0046549 CA# 9885



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Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Maximum Exposed Glass (inches)		Maximum Area per Leaf (sq. in.)	Door Swing	Latching Hardware Description		
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model
1	D, DSS, H, SW Trio, Trio-E ^{b,c}	16 Trio, Trio-E - 18	70	70	48	96	32	42	1344	Out Swing	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 ^{b,c}	16 Trio, Trio-E - 18	70	70	48	96	32	42	1344	Out Swing	Rim Exit Device	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5200S(A) x M107 HC8800, 12-HC8800 7150(F)WS/7250M(F)WS
3	D, DSS, H, SW Trio, Trio-E ^{b,c}	16 Trio, Trio-E - 18	70	70	48	96	32	42	1344	Out Swing	Surface Vertical Rod	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5470(B) x M107 HC4-8700 7170(F)WS
4	D, DSS, H, SW Trio, Trio-E ^{b,c}	16 Trio, Trio-E - 18	70	70	48	96	32	42	1344	Out Swing	Concealed Two Point Lock	Corbin Russwin Sargent	MP9800 (A/B) x M107 WS-12-7000, HC-12-7000
5	D, DSS, H, SW Trio, Trio-E ^{b,c}	16 Trio, Trio-E - 18	70	70	48	96	32	42	1344	Out Swing or In swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ML2000 7800, 8200, R8200 8800,
a - Glazing may be Vetrotech Keralite Ultra FR HI; c - Glazing may be 1/4" thick polycarbonate, Height limited to 42"													
b - Glazing may be Glasslam Safety Plus II; d - Glazing may be Vetrotech Keralite Ultra FR HI; width is limited to 23" visible, Height is limited to 53" visible													
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.

** 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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101 ASHBRIDGE CIRCLE
WOODBRIE, ON, CANADA L4L 3R5
COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.4)

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2020 FBC UPDATE	TAE	FLB	12/17/20
2023 FBC (PREV 20-34852)	AMZ	RS	10/18/23

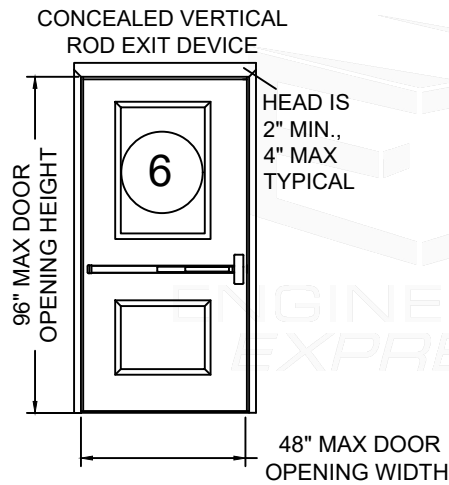
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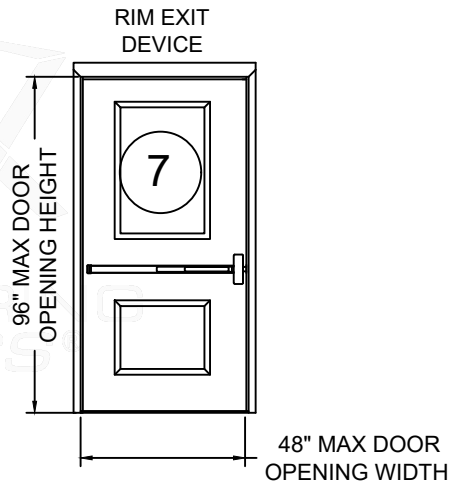
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FLEMING DOOR PRODUCTS GLAZED SINGLE DOORS

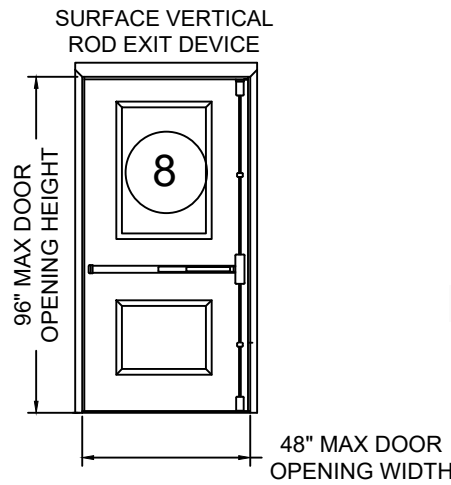
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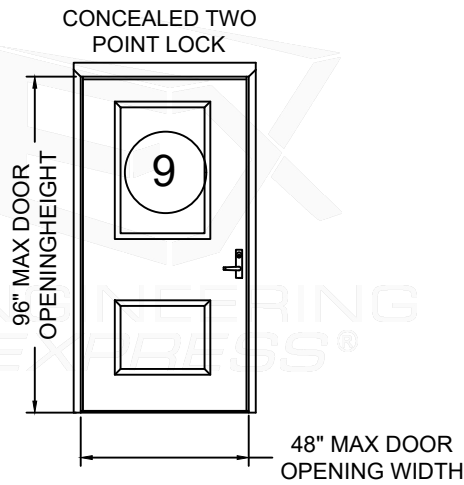
ASSEMBLY 6	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



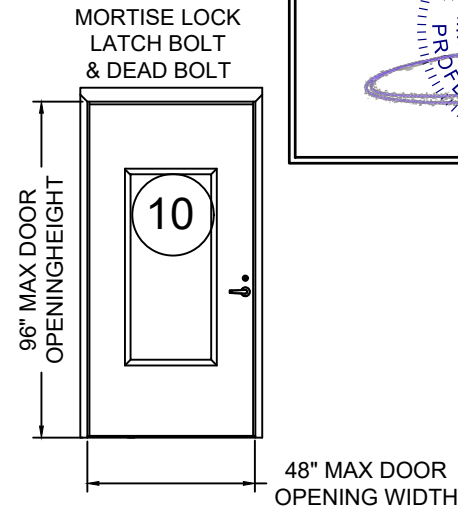
ASSEMBLY 7	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



ASSEMBLY 8	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF

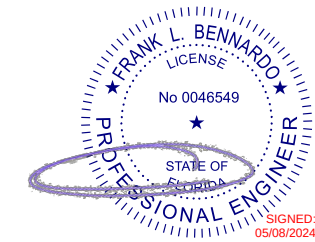


ASSEMBLY 9	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



ASSEMBLY 10	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF

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PE# 0046549 CA# 9885



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Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Maximum Exposed Glass (inches)		Maximum Area per Leaf (sq. in.)	Door Swing	Latching Hardware Description		
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model
6	D, DSS, H, SW ^a	16	70	70	48	96	23	53	1219	Out Swing	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-MD-12-8600, WS-MD-8600, WS-MD-12-8600
7	D, DSS, H, SW ^a	16	70	70	48	96	23	53	1219	Out Swing	Rim Exit Device	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5200S(A) x M107 HC8800, 12-HC8800 7150(F)WS/7250M(F)WS
8	D, DSS, H, SW ^a	16	70	70	48	96	23	53	1219	Out Swing	Surface Vertical Rod	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5470(B) x M107 HC4-8700 7170(F)WS
9	D, DSS, H, SW ^a	16	70	70	48	96	23	53	1219	Out Swing	Concealed Two Point Lock	Corbin Russwin Sargent	MP9800 (A/B) x M107 WS-12-7000, HC-12-7000
10	D, DSS, H, SW ^a	16	70	70	48	96	23	53	1219	Out Swing or In swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ML2000 7800, 8200, R8200 8800
a - Glazing may be Vetrotech Keralite Ultra FR HI; c - Glazing may be 1/4" thick polycarbonate, Height limited to 42"													
b - Glazing may be Glasslam Safety Plus II; d - Glazing may be Vetrotech Keralite Ultra FR HI; width is limited to 23" visible, Height is limited to 53" visible													
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, FM111, 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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WOODBRIE, ON, CANADA L4L 3R5
COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.4)

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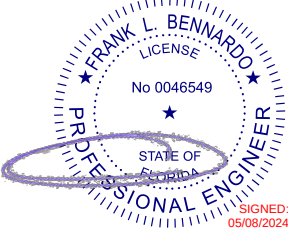
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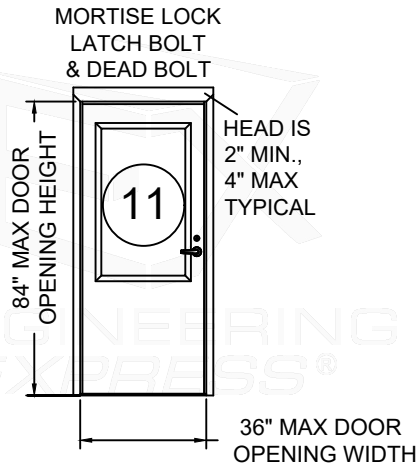
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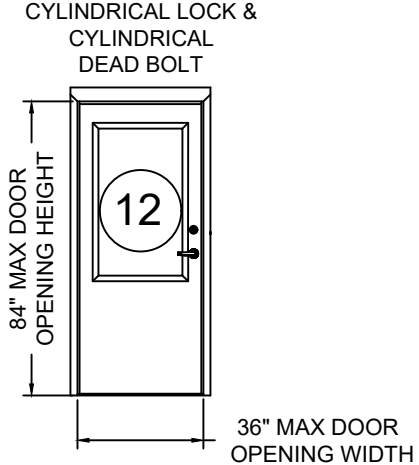
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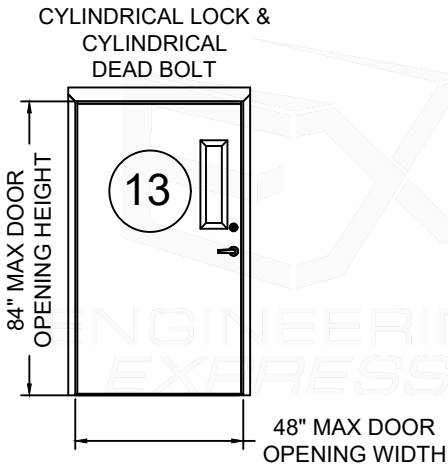
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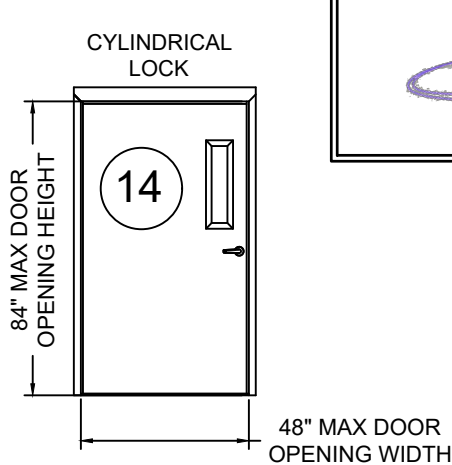
ASSEMBLY 11	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



ASSEMBLY 12	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



ASSEMBLY 13	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Needed
+/-65 PSF	+/-50 PSF



ASSEMBLY 14	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Needed
+/-65 PSF	+/-50 PSF

Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Maximum Exposed Glass (inches)		Maximum Area per Leaf (sq. in.)	Door Swing	Latching Hardware Description		
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model
11	D, DSS, H, SW ^{a,b,c}	18	70	70	36	84	24 *	42	1008	Out Swing Or In-swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ML2000 7800, 8200, R8200 8800
12	D, DSS, H, SW ^{a,b,c}	18	70	70	36	84	24 *	42	1008	Out Swing or In Swing*	Cylindrical Lock & Cylindrical Dead Bolt	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	CLX3300 DL3200 Deadbolt 6500,7,10X, 10XG77 480 Deadbolt 5400CK/5400LN D100 Deadbolt
13	D, DSS, H, SW ^e	18	65	65	48	84	4.5" Min 10" Max *	4.5" Min 22" Max	100	Out Swing	Cylindrical Lock & Cylindrical Dead Bolt	Corbin Russwin Sargent	CL3100 DL3200 Dead Bolt 11 Line 480 Dead Bolt
14	D, DSS, H, SW ^e	18	65	65	48	84	4.5" Min 10" Max *	4.5" Min 22" Max	100	Out Swing	Cylindrical Lock	Corbin Russwin Sargent	CL3100 11 Line
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101 ASHBRIDGE CIRCLE
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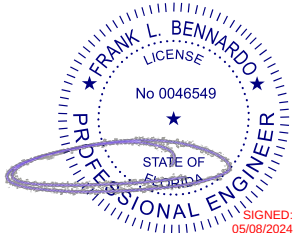
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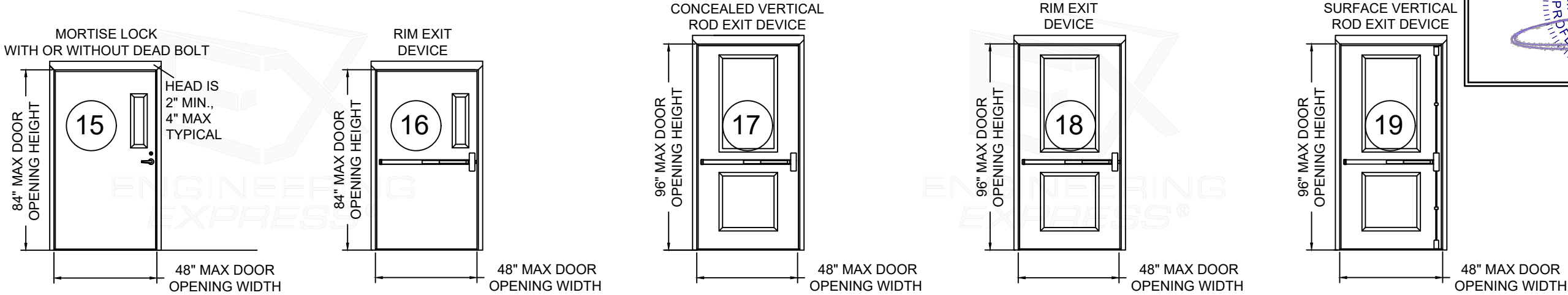
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PE# 0046549 CA# 9885



MAY 8, 2024

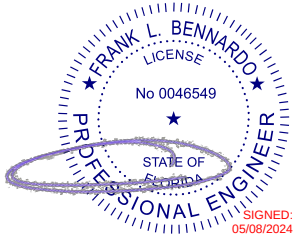


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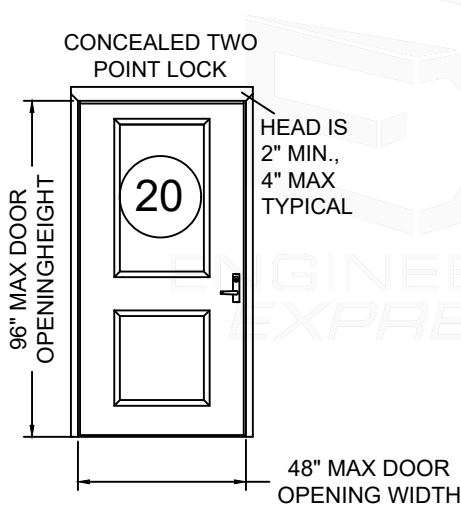
FLEMING DOOR PRODUCTS GLAZED SINGLE DOORS

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-LBS. PRODUCT MEETS REQUIREMENTS OF HIGH VELOCITY HURRICANE ZONE.

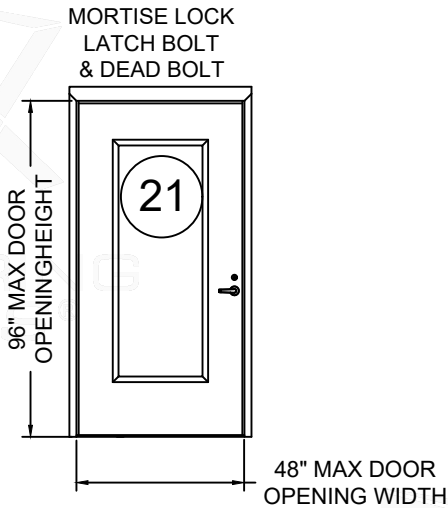
FRANK BENNARDO, PE
PE# 0046549 CA# 9885



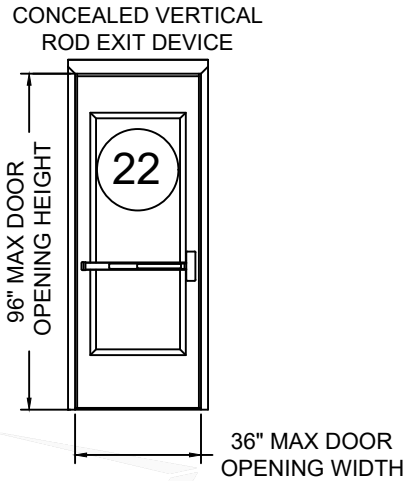
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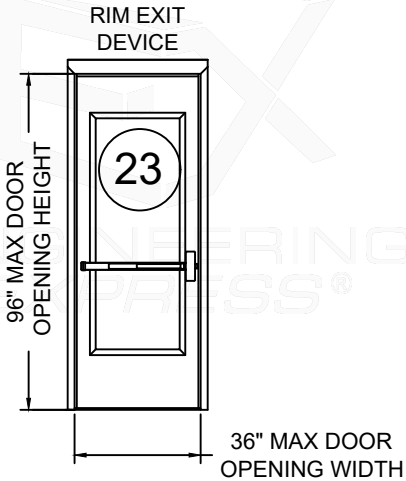
ASSEMBLY 20	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF



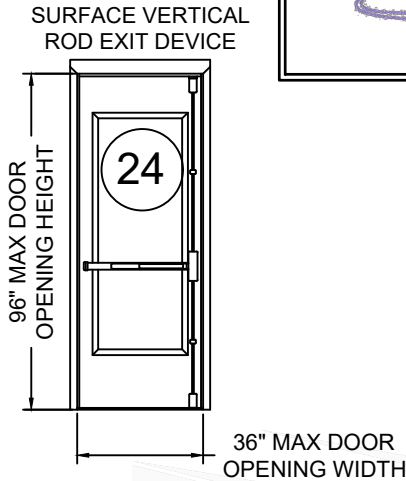
ASSEMBLY 21	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF



ASSEMBLY 22	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF



ASSEMBLY 23	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF



ASSEMBLY 24	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF

Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Maximum Exposed Glass (inches)		Maximum Area per Leaf (sq. in.)	Door Swing	Latching Hardware Description		
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model
20	D, DSS, H, SW ^{b,c,d}	16	60	60	48	96	24	66	1584	Out Swing	Concealed Two Point Lock	Corbin Russwin Sargent	MP9800 (A/B) x M107 WS-12-7000, HC-12-7000
21	D, DSS, H, SW ^{b,c,d}	16	60	60	48	96	24	66	1584	Out Swing or In Swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ML2000 7800, 8200, R8200 8800
22	D, DSS, H, SW ^{b,c,d}	16	60	60	36	96	24	66	1584	Out Swing	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-MD-12-8600, WS-MD-8600, WS-MD-12-8600
23	D, DSS, H, SW ^{b,c,d}	16	60	60	36	96	24	66	1584	Out Swing	Rim Exit Device	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5200S(A) x M107 HC8800, 12-HC8800 7150(F)WS/7250M(F)WS
24	D, DSS, H, SW ^{b,c,d}	16	60	60	36	96	24	66	1584	Out Swing	Surface Vertical Rod	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5470(B) x M107 HC-8700 7170(F)WS
a - Glazing may be Vetrotech Keralite Ultra FR HI; c - Glazing may be 1/4" thick polycarbonate, Height limited to 42"													
b - Glazing may be Glasslam Safety Plus II; d - Glazing may be Vetrotech Keralite Ultra FR HI; width is limited to 23" visible, Height is limited to 53" visible													
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.

** 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.

ASSA ABLOY, the global leader in door opening solutions.

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DIVISION OF ASSA ABLOY DOOR GROUP, INC.
101 ASHBRIDGE CIRCLE
WOODBRIE, ON, CANADA L4L 3R5

Fleming
Door Products
ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.4)

REMARKS	DRWN	CHKD	DATE
INIT/ISSUE (12-CUI-03g-01)	KL	FLB	06/28/13
FBC UPDATE	RWN	CSL	06/12/15
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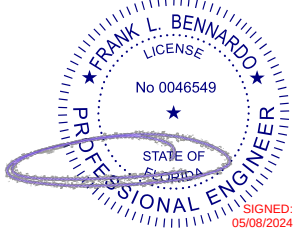
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FLEMING DOOR PRODUCTS GLAZED SINGLE DOORS

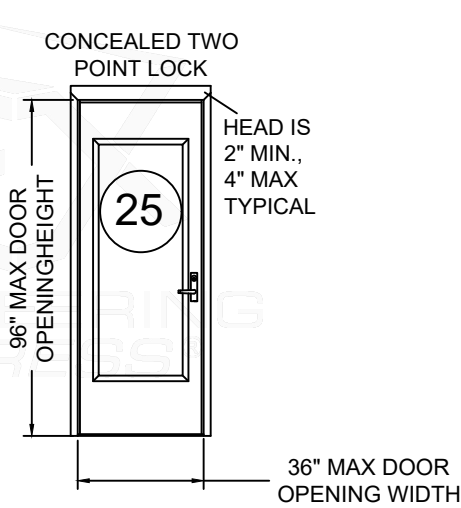
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PE# 0046549 CA# 9885

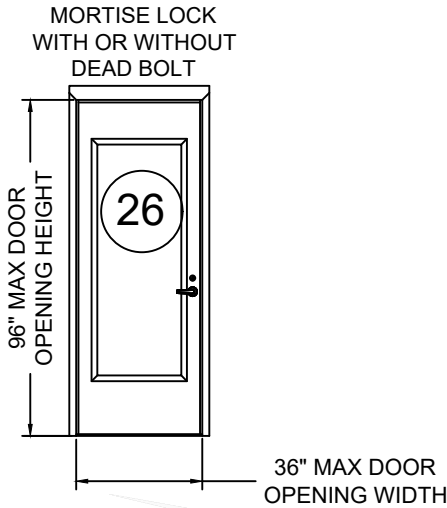


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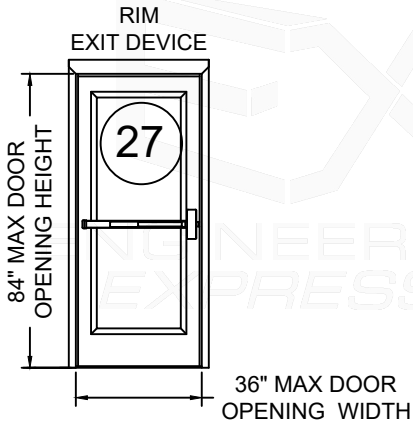
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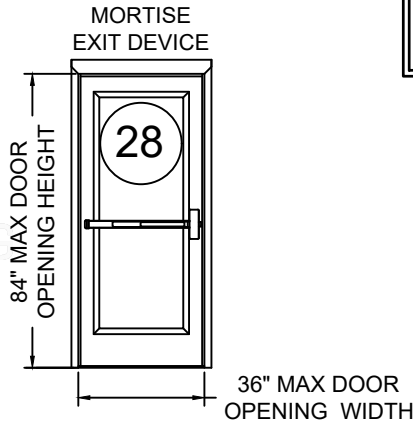
ASSEMBLY 26	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF



ASSEMBLY 27	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60PSF	+/-50 PSF



ASSEMBLY 28	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60PSF	+/-50 PSF



ASSEMBLY 29	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60PSF	+/-50 PSF

Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Maximum Exposed Glass (inches)		Maximum Area per Leaf (sq. in.)	Door Swing	Latching Hardware Description		
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model
25	D, DSS, H, SW ^{b,c,d}	16	60	60	36	96	24	66	1584	Out Swing	Concealed Two Point Lock	Corbin Russwin Sargent	MP9800 (A/B) x M107 WS-12-7000, HC-12-7000
26	D, DSS, H, SW ^{b,c,d}	16	60	60	36	96	24	66	1584	Out Swing or In Swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ML2000 7800, 8200, R8200 8800
27	D, DSS, E, SW ^{b,c,d}	18	60	60	36	84	24	66	1584	Out Swing	Rim Exit Device	Corbin Russwin Sargent Sargent VingCard Elsafe A/S ASSA ABLOY ACCENTRA	ED5200S(A) x M107 HC8800, 12-HC8800 WS-8800, WS-12-8800 VC3000 7150(F)WS/7250M(F)WS
28	D, DSS, E, SW ^{b,c,d}	18	60	60	36	84	24	66	1584	Out Swing	Mortise Exit	Sargent	WS-8900, WS-12-8900
a - Glazing may be Vetrotech Keralite Ultra FR HI; c - Glazing may be 1/4" thick polycarbonate, Height limited to 42"													
b - Glazing may be Glasslam Safety Plus II; d - Glazing may be Vetrotech Keralite Ultra FR HI; width is limited to 23" visible, Height is limited to 53" visible													
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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DIVISION OF ASSA ABLOY DOOR GROUP, INC.
101 ASHBRIDGE CIRCLE
WOODBRIE, ON, CANADA L4L 3R5



COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.4)

REMARKS	DATE	CHKD	DRWN
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FBC UPDATE	06/12/15	CSL	RWN
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2020 FBC UPDATE	12/17/20	FLB	TAE
2023 FBC (PREV 20-34852)	10/18/23	RS	AMZ

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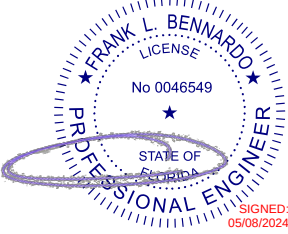
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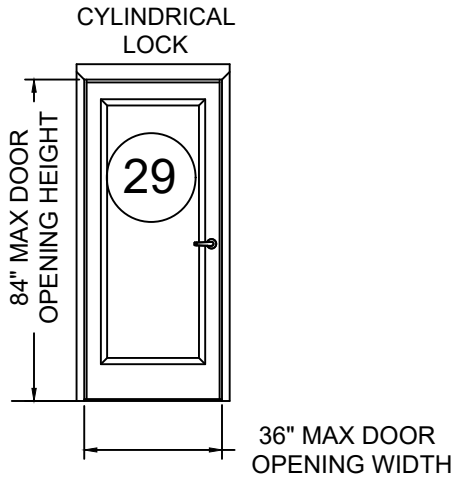
FLEMING DOOR PRODUCTS GLAZED SINGLE DOORS

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FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024



ASSEMBLY 29	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF



ASSEMBLY 30	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF

Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Maximum Exposed Glass (inches)		Maximum Area per Leaf (sq. in.)	Door Swing	Latching Hardware Description			
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model	
29	D, DSS, E, H, SW ^{bcd}	18	60	60	36	84	24	66	1584	Out Swing or In Swing*	Cylindrical Lock	Corbin Russwin	CL3100, CLX3300, CL3800	
												Sargent	6500,7,10X, 10XG77	
												ASSA ABLOY ACCENTRA	5300LN, 5400CK, 5400LN	
30	D, DSS, E, H, SW ^{b,c,d}	18	60	60	36	84	24	66	1584	Out Swing or In Swing*	Mortise Lock	Corbin Russwin	ML2000	
												Sargent	7800, 8200, R8200	
												VingCard Elsafe A/S	ANSI, Classic, Signature	
												ASSA ABLOY ACCENTRA	8800	
a - Glazing may be Vetrotech Keralite Ultra FR HI; c - Glazing may be 1/4" thick polycarbonate, Height limited to 42"														
b - Glazing may be Glasslam Safety Plus II; d - Glazing may be Vetrotech Keralite Ultra FR HI; width is limited to 23" visible, Height is limited to 53" visible														
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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GLAZED SINGLE DOORS (LMI) - FBC (2023)
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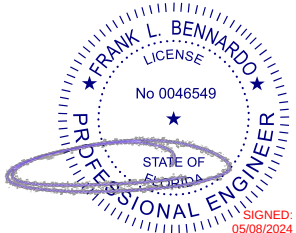
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FLEMING DOOR PRODUCTS GLAZED SINGLE DOORS

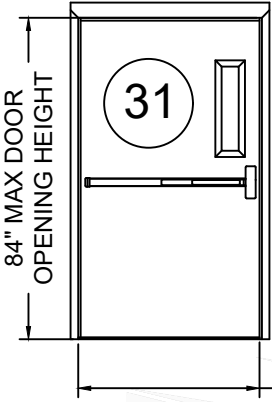
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CONCEALED VERTICAL
ROD EXIT DEVICE



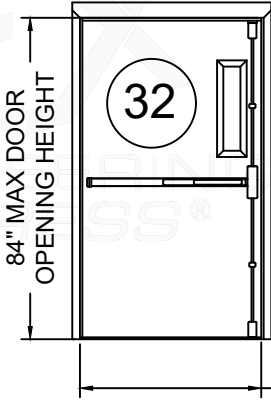
84" MAX DOOR
OPENING HEIGHT

48" MAX DOOR
OPENING WIDTH

ASSEMBLY 31

Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-65 PSF	+/-50 PSF

SURFACE VERTICAL ROD
EXIT DEVICE



84" MAX DOOR
OPENING HEIGHT

48" MAX DOOR
OPENING WIDTH

ASSEMBLY 32

Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-65 PSF	+/-50 PSF

Assembly	Door Series	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Maximum Exposed Glass (inches)		Maximum Area per Leaf (sq. in.)	Door Swing	Latching Hardware Description		
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model
31	D, DSS, H, SW ^e	18	65	65	48	84	4.5" Min 10" Max	4.5" Min 22" Max	100	Out Swing	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-MD-12-8600, WS-MD-8600, WS-MD-12-8600
32	D, DSS, H, SW ^e	18	65	65	48	85	4.5" Min 10" Max	4.5" Min 22" Max	100	Out Swing	Surface Vertical Rod	Corbin Russwin	ED5470(B) x M107
												Sargent	HC-8700
												ASSA ABLOY ACCENTRA	7170(F)WS
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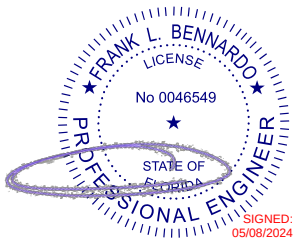
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FLEMING DOOR PRODUCTS GLAZED SINGLE DOORS ADDITIONAL ELEVATIONS

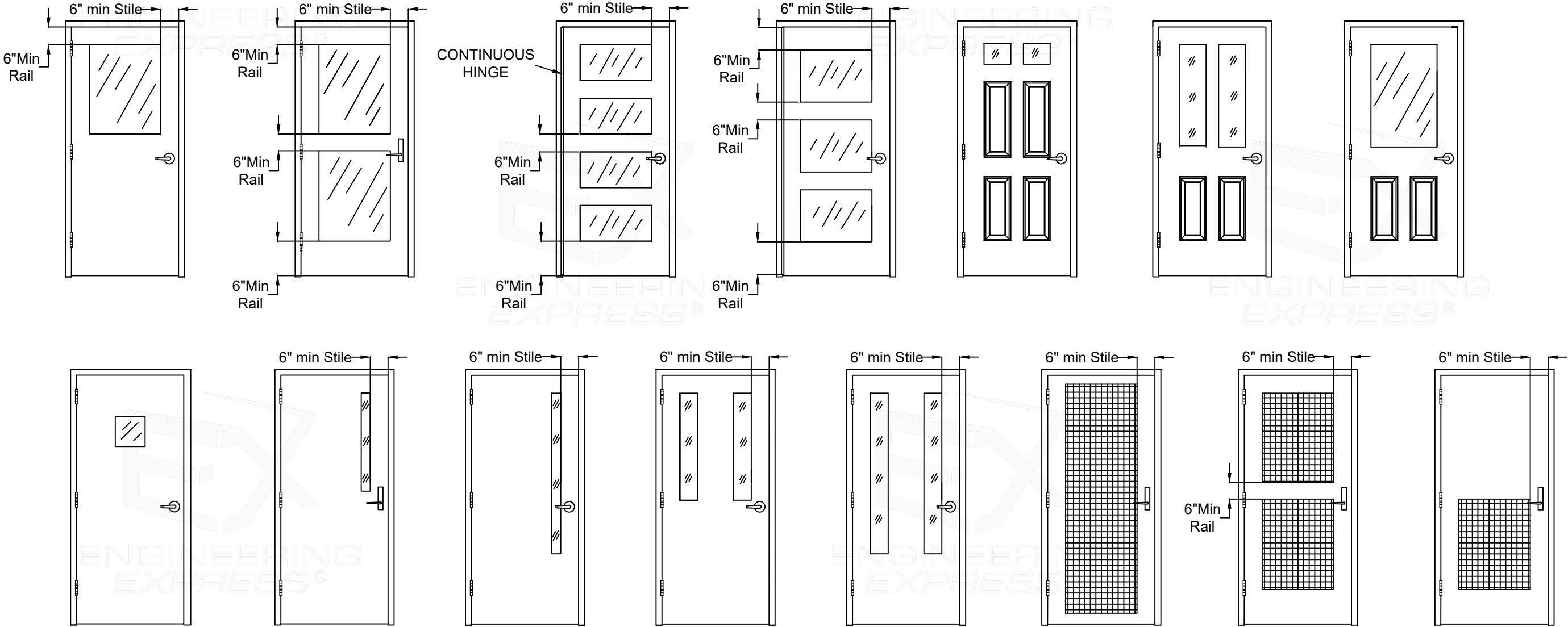
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PE# 0046549 CA# 9885



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OPTIONAL ELEVATIONS



EMBOSSED PANEL DOORS LIMITED TO 18 GA STEEL

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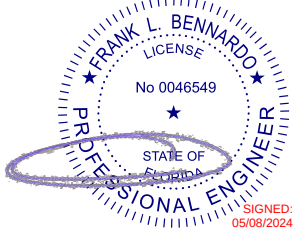
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FLEMING DOOR PRODUCTS GLAZED DOOR GLAZING OPTIONS

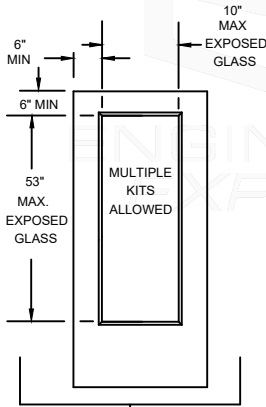
PRODUCTS ILLUSTRATED IN THIS DOCUMENT ARE QUALIFIED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT IS 9 LB 2 X 4 AT 50 FEET PER SECOND OR 350 FT-LBS. PRODUCT MEETS REQUIREMENTS OF HIGH VELOCITY HURRICANE ZONE.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024

GLAZING OPTION
VETROTECH
KERALITE ULTRA IGU HI

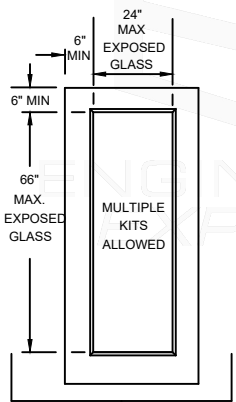


MAX DESIGN PRESSURE +/- 70 PSF

VETROTECH KERALITE ULTRA HI

- 1.) DESIGN PRESSURE 70 PSF
- 2.) MAXIMUM SIZE 23" X 53".
- 3.) MAXIMUM AREA PER LEAF IS 1219 SQ. IN.
- 4.) MULTIPLE LIGHTS ALLOWED
- 5.) SURROUND CHANNEL REQUIRED.

GLAZING OPTION
GLASSLAM SAFETY PLUS II
LAMINATED GLASS

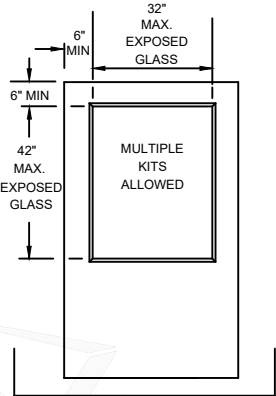


MAX DESIGN PRESSURE +/- 60 PSF

GLASSLAM SAFETY PLUS II

- 1.) DESIGN PRESSURE 60 PSF
- 2.) MAXIMUM GLASS SIZE 24" X 66"
- 3.) MAXIMUM GLASS AREA PER LEAF IS 1584 SQ. IN.
- 4.) MULTIPLE LIGHTS ALLOWED.
- 5.) SURROUND CHANNEL REQUIRED.

GLAZING OPTION
GLASSLAM SAFETY PLUS II
LAMINATED GLASS
OR
1/4" THICK MAKROLON POLYCARBONATE
SHEET BY BAYER MATERIAL SCIENCE, LLC

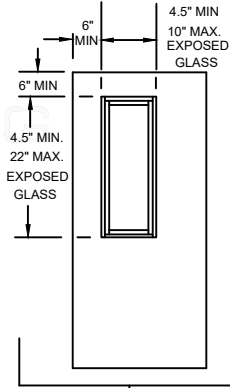


MAX DESIGN PRESSURE +/- 70 PSF

GLASSLAM SAFETY PLUS II AND POLYCARBONATE

- 1.) DESIGN PRESSURE 70 PSF
- 2.) MAXIMUM SIZE 32" X 42".
- 3.) MAXIMUM AREA PER LEAF IS 1344 SQ. IN.
- 4.) MULTIPLE LIGHTS ALLOWED
- 5.) SURROUND CHANNEL REQUIRED.
- 6.) POLYCARBONATE USED IN THE HVHZ MUST HAVE A VALID NOA.

GLAZING OPTION
1/4" THICK MAKROLON POLYCARBONATE
SHEET BY BAYER MATERIAL SCIENCE, LLC

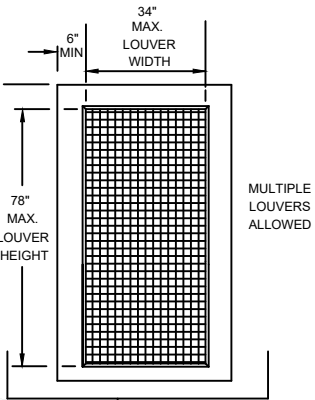


MAX DESIGN PRESSURE +/- 65 PSF

POLYCARBONATE

- 1.) DESIGN PRESSURE 65 PSF
- 2.) MAXIMUM AREA PER LEAF IS 100 SQ. IN.
- 3.) MULTIPLE LIGHTS NOT ALLOWED
- 4.) SURROUND CHANNEL REQUIRED.
- 5.) POLYCARBONATE USED IN THE HVHZ MUST HAVE A VALID NOA.

GLAZING OPTION
ROCKWOOD LV-WS LOUVER

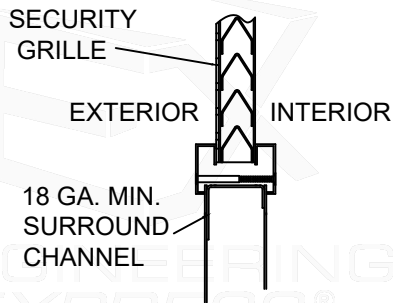
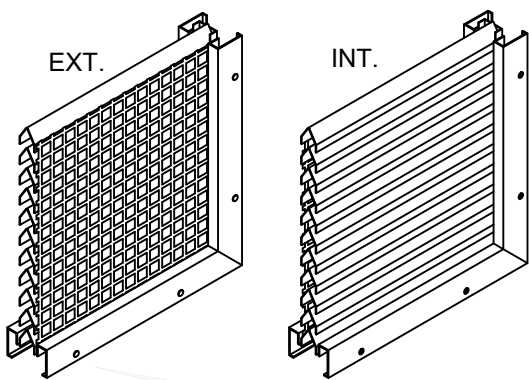


MAX DESIGN PRESSURE +/- 70 PSF

ROCKWOOD LV-WS LOUVER

- 1.) DESIGN PRESSURE - 70 PSF MAX.
- 2.) MAXIMUM LOUVER SIZE IS 34" X 78". MAY BE USED WITH CYLINDRICAL LOCKS AND MORTISE LOCKS. CONTACT FACTORY FOR LIMITATIONS WHEN USING EXIT DEVICES,
- 3.) 6" MINIMUM STILES AND RAILS REQUIRED.
- 4.) MULTIPLE LOUVERS ALLOWED PER DOOR UP TO 3652 SQ. IN.
- 5.) SURROUND CHANNEL REQUIRED.
- 6.) LOUVER NOT QUALIFIED FOR AIR OR WATER INFILTRATION.
- 7.) LOUVER NOT AVAILABLE ON TRIO OR TRIO-E

ROCKWOOD LV-WS LOUVER



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DIVISION OF ASSA ABLOY DOOR GROUP, INC.

101 ASHBURIDGE CIRCLE

WOODBIDGE, ON, CANADA L4L 3R5

Fleming

Door Products

ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS

GLAZED SINGLE DOORS (LMI) - FBC (2023)

FLORIDA STATEWIDE APPROVAL (FSA FL#16356.4)

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2023 FBC (PREV 20-34852)	AMZ	RS	10/18/23

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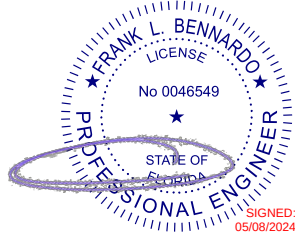
11 OF 20

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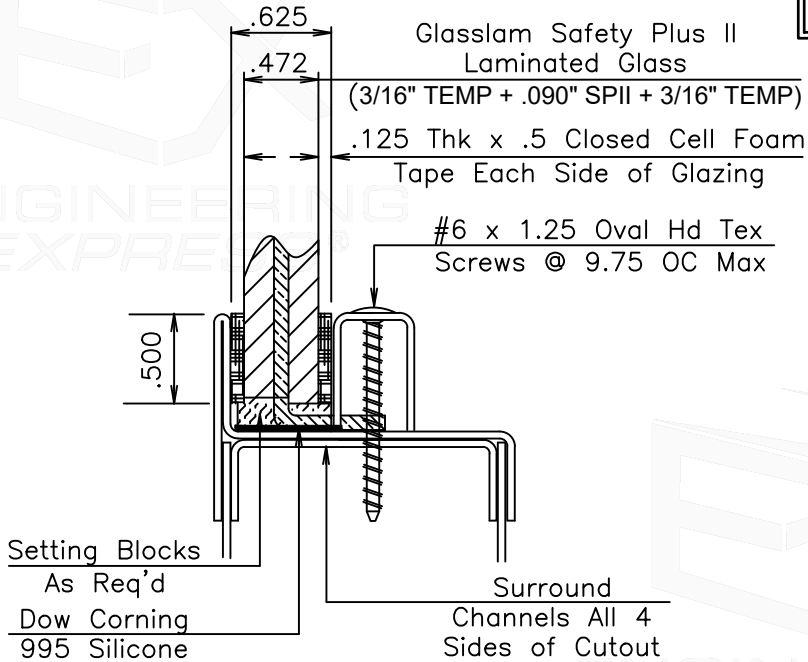
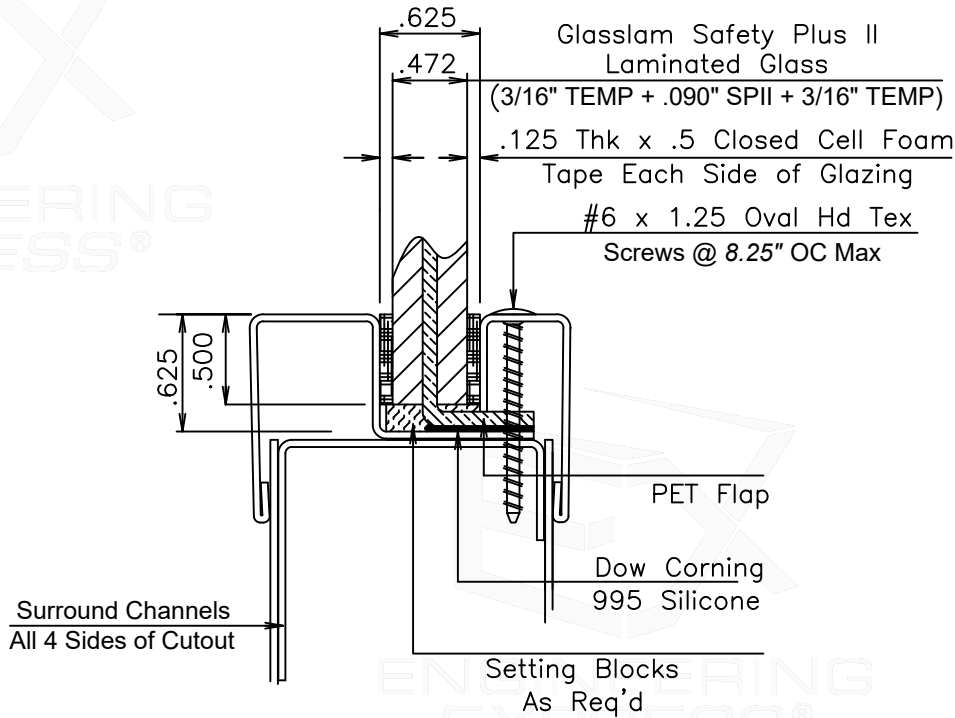
FLEMING DOOR PRODUCTS GLASSLAM SAFETY PLUS II INSTALLATION INSTRUCTIONS

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-LBS. PRODUCT MEETS REQUIREMENTS OF HIGH VELOCITY HURRICANE ZONE.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024



GLAZING INSTRUCTIONS

- 1) Before removing the removable stops, check to be sure there are screws in every hole. Pre-drill holes with a #36 bit where there are screw holes but no screws. Do not remove stops.
 - 2) Using a pencil, mark alignment marks on the removable stops and the door.
 - 3) Unscrew the oval head TEK screws from the removable stops and remove the removable stops. Keep the screws.
 - 4) Apply 1/8" x 1/2" closed cell foam glazing tape to the fixed stop.
 - 5) If there is plastic release on the foam glazing tape, pull the plastic release back about 2" from each end of the foam tape. Pull the plastic release around the fixed stop so it can be grasped after placing the Glasslam on the unexposed foam tape.
 - 6) If there is paper release on the foam glazing tape, remove the paper release before glazing. Spray the exposed foam tape with a mild soap solution immediately before placing the Glasslam on the exposed foam tape.
 - 7) Place glazing shims, as needed, then set the Glasslam on the foam glazing tape.
 - 8) Adjust the Glasslam assembly, as necessary, to center the assembly in the cutout.
 - 9) If the release is plastic, grasp the free end of the plastic release, while holding the Glasslam to keep it from moving. Then slowly pull the plastic release off the foam tape that was applied to the fixed stop.
 - 10) Trim the PET flap so it does not extend beyond the removable glass stop.
 - 11) Take a putty knife and insert it between the PET flap and the edge of the cutout in the door. Using the putty knife pull the PET flap away from the cutout in the door.
 - 12) While holding the PET flap back away from the cutout with the putty knife, use a caulking gun to apply Dow Corning 995 silicone between the PET flap and the steel in the cutout of the door.
- IMPORTANT: Ensure that the Dow Corning 995 silicone fully wets out or covers the PET flap and comes in contact with the steel around the cutout in the door.**
- 13) Slowly move the putty knife around the door ahead of the caulking gun and apply the 995 silicone around the entire cutout in the door.
 - 14) Apply 1/8" x 1/2" closed cell foam glazing tape to the removable stop.
 - 15) If there is plastic release on the foam glazing tape, pull the plastic release back about 2" from each end of the foam tape. Pull the plastic release around the removable stop so it can be grasped after placing the removable stop on the polycarbonate.
 - 16) If there is paper release on the foam glazing tape, remove the paper. Spray the exposed foam tape with a mild soap solution immediately before placing the removable stops against the Glasslam.
 - 17) Using the alignment marks, position the removable stops against the Glasslam.
 - 18) Install and tighten the oval head TEK screws in the removable stops. Be careful not to over tighten.
 - 19) If the release is plastic, grasp the free end of the plastic release, and slowly pull the plastic release off the foam tape that was applied to the removable stop.
 - 20) Using the Dow Corning 995 silicone or other high quality silicone, apply a cap bead over the closed cell foam tape on the exterior side of the door vision light kit.

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101 ASHBURIDGE CIRCLE
WOODBIDGE, ON, CANADA L4L 3R5
Fleming Door Products
ASSA ABLOY
COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.4)

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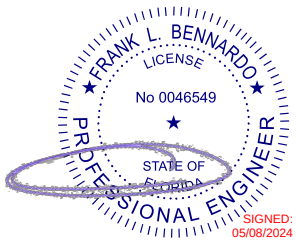
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FLEMING DOOR PRODUCTS 1/4" THICK POLYCARBONATE GLAZING INSTRUCTIONS

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-LBS. PRODUCT MEETS REQUIREMENTS OF HIGH VELOCITY HURRICANE ZONE.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024

#6 x 1.5 Oval Hd Tex Screws
at 9.75" OC max for Lights
Exceeding exposed glass of 10"
width, 22" ht, 100 sq. in. area,
or Design Load greater than
+/- 65 psf.

20 Gage
Snap-In Stop

Tack-Weld Vertical to Horizontal
Trim in Glazing Space at
Each Corner

20 Gage
Trim/Integral Stop

.375
.25 Thk Polycarbonate
Glazing Material
'GE Silicone II' caulk
or .125 x .5 Closed Cell
Foam Tape on each side
of glazing

Surround
Channels All 4
Sides of Cutout

Setting Blocks
As Req'd

Setting Blocks
As Req'd

Surround
Channels All 4
Sides of Cutout

GLAZING INSTRUCTIONS

- 1) Before removing the removable stops, check to be sure there are screws in every hole. Pre-drill holes with a #36 bit where there are screw holes but no screws. Do not remove stops.
- 2) Using a pencil, mark alignment marks on the removable stops and the door.
- 3) Unscrew the oval head TEK screws from the removable stops and remove the removable stops. Keep the screws.
- 4) Apply 1/8" x 1/2" closed cell foam glazing tape to the fixed stop.
- 5) If there is plastic release on the foam glazing tape, pull the plastic release back about 2" from each end of the foam tape. Pull the plastic release around the fixed stop so it can be grasped after placing the Glasslam on the unexposed foam tape.
- 6) If there is paper release on the foam glazing tape, remove the paper release before glazing. Spray the exposed foam tape with a mild soap solution immediately before placing the Glasslam on the exposed foam tape.
- 7) Place glazing shims, as needed, then set the Glasslam on the foam glazing tape.
- 8) Adjust the Glasslam assembly, as necessary, to center the assembly in the cutout.
- 9) If the release is plastic, grasp the free end of the plastic release, while holding the Glasslam to keep it from moving. Then slowly pull the plastic release off the foam tape that was applied to the fixed stop.
- 10) Trim the PET flap so it does not extend beyond the removable glass stop.
- 11) Take a putty knife and insert it between the PET flap and the edge of the cutout in the door. Using the putty knife pull the PET flap away from the cutout in the door.
- 12) While holding the PET flap back away from the cutout with the putty knife, use a caulking gun to apply Dow Corning 995 silicone between the PET flap and the steel in the cutout of the door.

IMPORTANT: Ensure that the Dow Corning 995 silicone fully wets out or covers the PET flap and comes in contact with the steel around the cutout in the door.

- 13) Slowly move the putty knife around the door ahead of the caulking gun and apply the 995 silicone around the entire cutout in the door.
- 14) Apply 1/8" x 1/2" closed cell foam glazing tape to the removable stop.
- 15) If there is plastic release on the foam glazing tape, pull the plastic release back about 2" from each end of the foam tape. Pull the plastic release around the removable stop so it can be grasped after placing the removable stop on the polycarbonate.
- 16) If there is paper release on the foam glazing tape, remove the paper. Spray the exposed foam tape with a mild soap solution immediately before placing the removable stops against the Glasslam.
- 17) Using the alignment marks, position the removable stops against the Glasslam.
- 18) Install and tighten the oval head TEK screws in the removable stops. Be careful not to over tighten.
- 19) If the release is plastic, grasp the free end of the plastic release, and slowly pull the plastic release off the foam tape that was applied to the removable stop.
- 20) Using the Dow Corning 995 silicone or other high quality silicone, apply a cap bead over the closed cell foam tape on the exterior side of the door vision light kit.

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Fleming

Door Products

ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS

GLAZED SINGLE DOORS (LMI) - FBC (2023)

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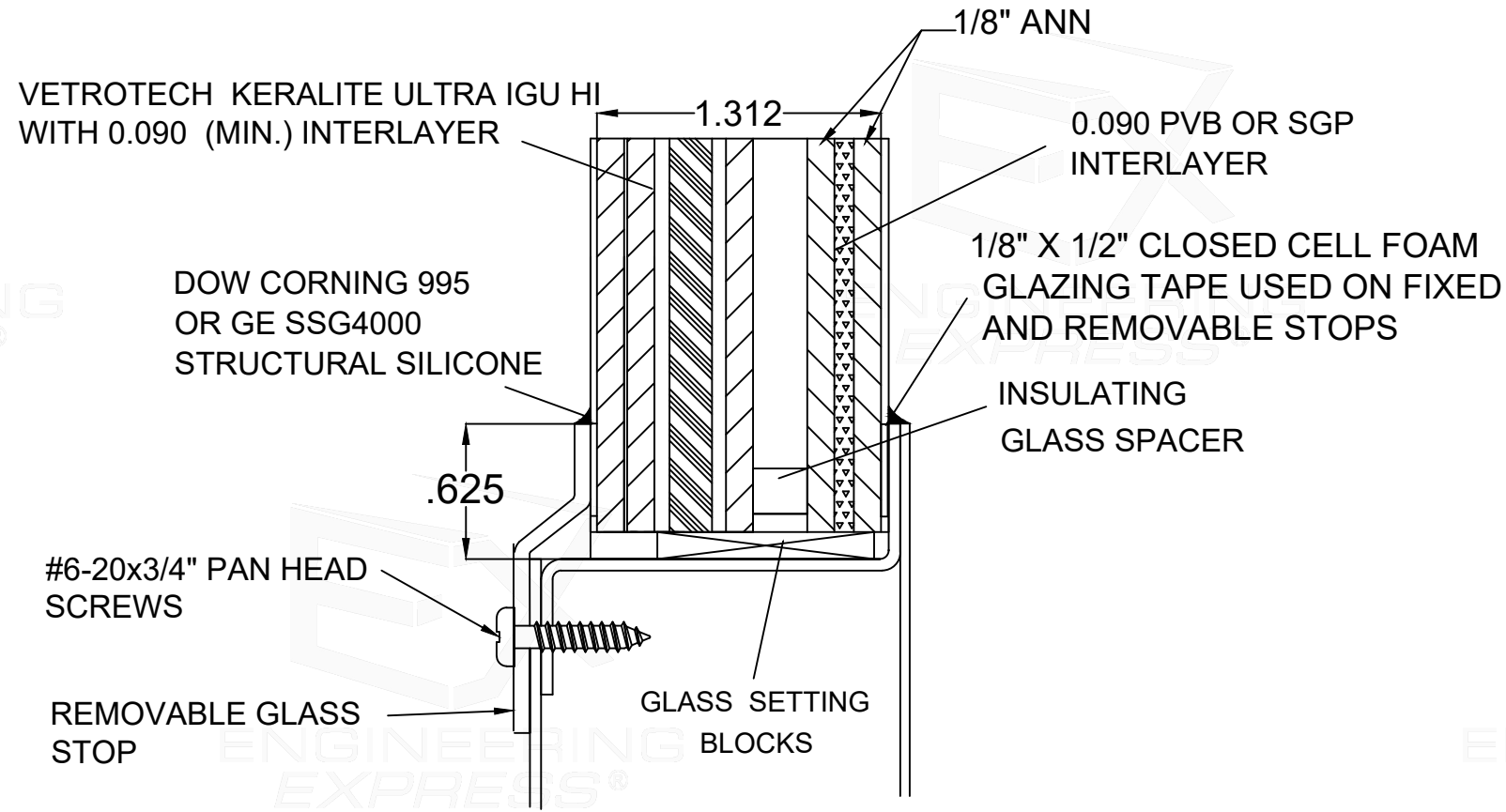
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FLEMING DOOR PRODUCTS VETROTECH KERALITE ULTRA IGU HI GLAZING INSTRUCTIONS

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FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FRANK L. BENNARDO
LICENSE
No 0046549
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SIGNED: 05/08/2024

MAY 8, 2024

FL# 16356.4

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COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
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GLAZING INSTRUCTIONS

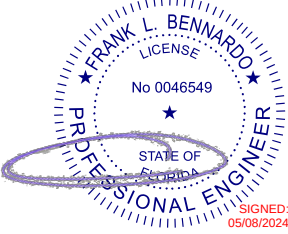
- 1.) Before removing the removable stop, check to be sure there are screws in every hole. Pre-drill holes with a #36 bit where there are screw holes but no screws. Do not remove stop.
- 2.) Using a pencil, mark alignment marks on the removable stop and the door.
- 3.) Unscrew the screws from the removable stop and remove the removable stop. Keep the screws.
- 4.) Wipe the fixed stop clean and then apply closed cell foam tape to the fixed stop.
- 5.) Wipe the removable stop clean and then apply closed cell foam tape to the removable stop.
- 6.) Use 1/8" thick max glazing shims at the sill. Glazing shims should be the full thickness of the glass.
- 7.) Run a generous toe bead of Dow Corning 995 or GE structural silicone around the opening.
- 8.) Remove the release tape from the closed cell foam tape on the fixed stop.
- 9.) Place glass down on glazing blocks and press up against closed cell foam tape.
- 10.) Run a heel bead around the perimeter to the glass.
- 11.) Using the alignment marks, position the removable stop against the glass.
- 12.) Install and tighten the screws in the removable stop. Be careful not to over tighten.
- 13.) Using the Dow Corning 995 or GE SGG 4000 apply a cap bead over the closed cell foam tape.

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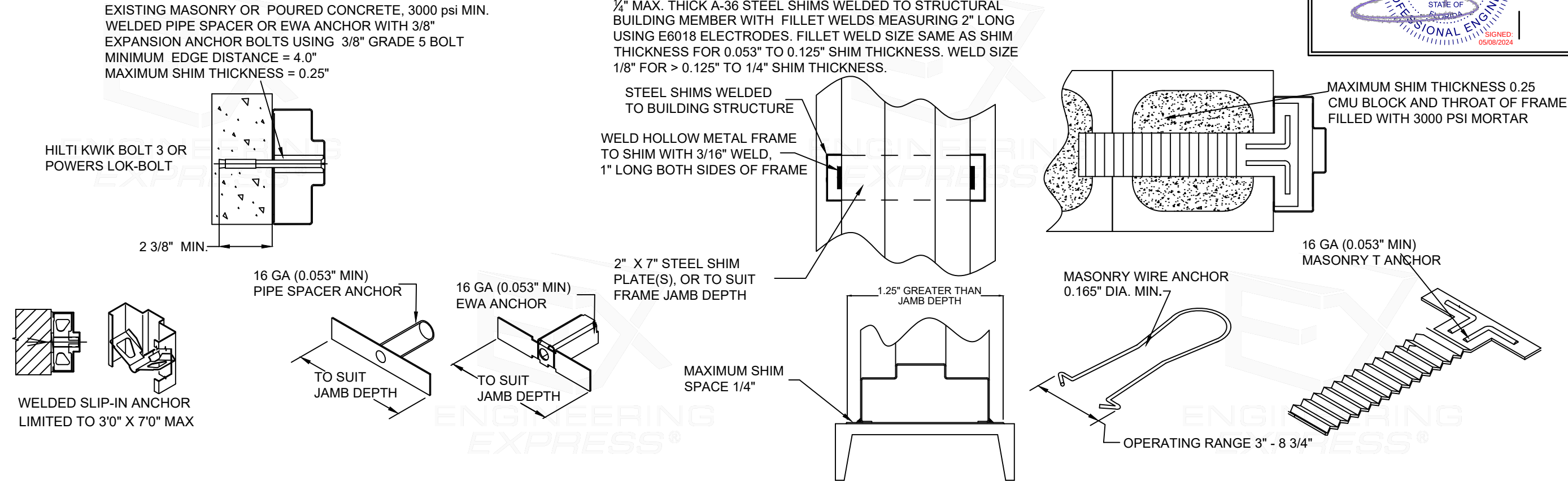
FLEMING DOOR PRODUCTS FRAME ANCHOR INFORMATION

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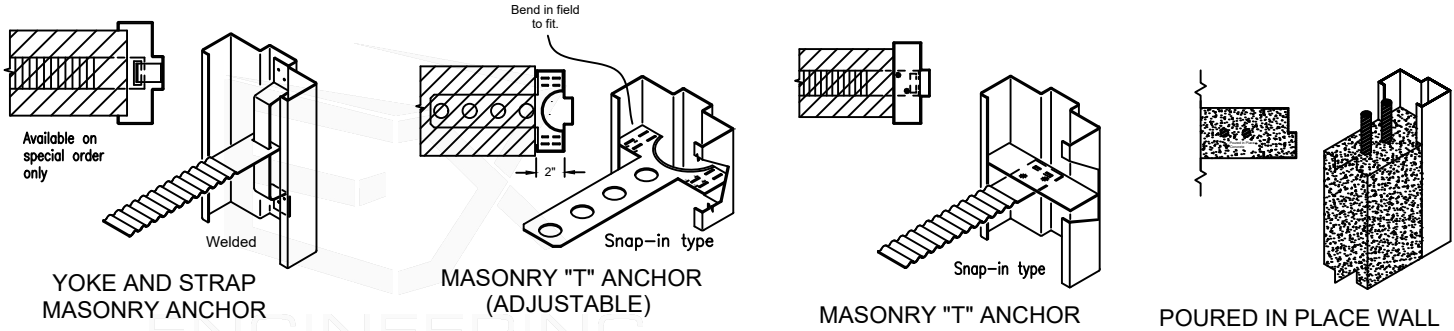
FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024



Expansion Shell Anchor Requirements For Single Frame			
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



Masonry Strap, Masonry T, and Masonry Wire Anchor Requirements For Single Frame 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	4	24
90"	12	4	24
96"	12	4	24

FL# 16356.4



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101 ASHBURIDGE CIRCLE
WOODBRIIDGE, ON, CANADA L4L 3R5



COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
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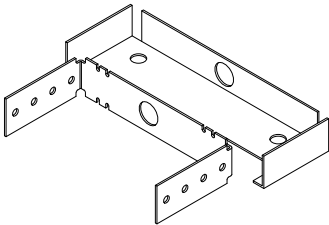
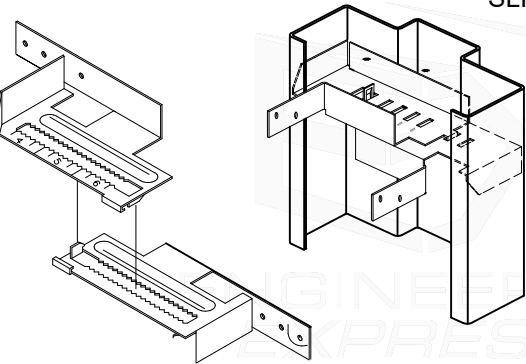
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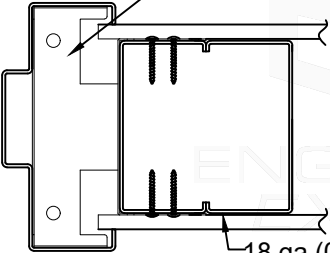
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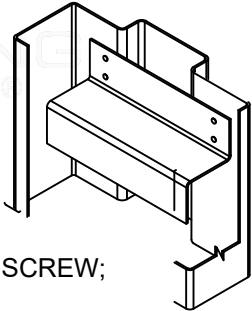
18 ga. (0.041" MIN.)
SLIP-IN STUD ANCHORS



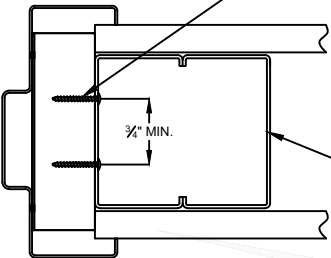
SLIP -IN STUD ANCHOR WELDEED TO
FRAME CONNECT TO STEEL
WITH #8 X 1" GRADE 5 SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EDGE DISTANCE - 0.328"



18 ga (0.041" min.)
STEEL STUDS

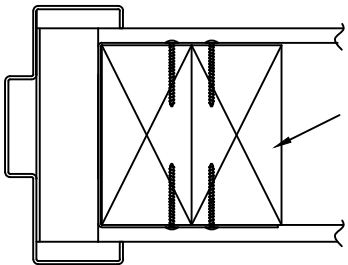
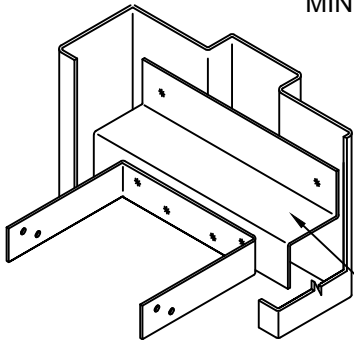


#14 x 1" GRADE 5 SHEET METAL SCREW;
2 SCREWS REQUIRED
PER ANCHOR LOCATION;

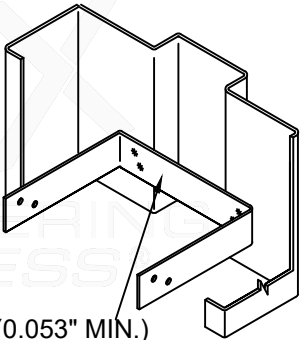


18 ga (0.041" min.)
STEEL STUDS

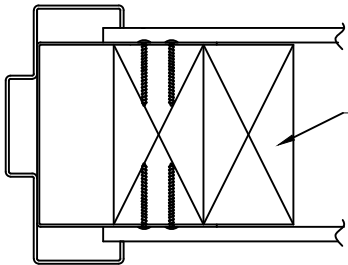
WELDED WOOD STUD ANCHOR
WITH #8 X 1" GRADE 5 SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EMBEDMENT = 1"MIN EDGE DISTANCE = 0.524"



WOOD STUD

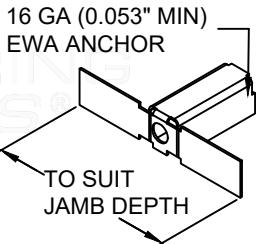
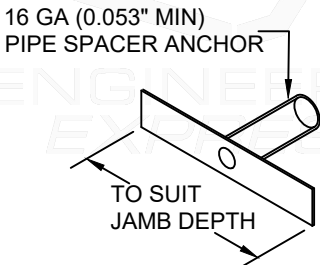


16 ga (0.053" MIN.)
WOOD STUD ANCHOR



WOOD STUD

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"



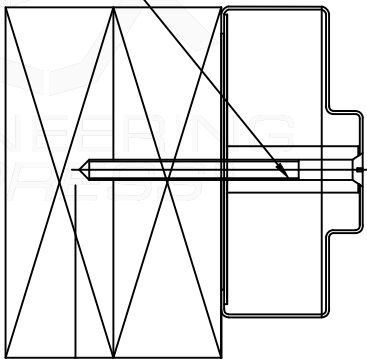
16 GA (0.053" MIN)
PIPE SPACER ANCHOR

16 GA (0.053" MIN)
EWA ANCHOR

TO SUIT
JAMB DEPTH

TO SUIT
JAMB DEPTH

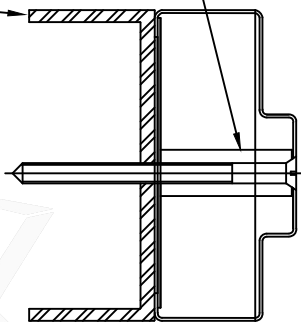
WELDED PIPE SPACER OR EWA ANCHOR
WITH 3/8" WOOD SCREW OR LAG BOLT
MINIMUM EDGE DISTANCE = 1.75"
MAXIMUM SHIM THICKNESS = 0.25"



3.0" MIN

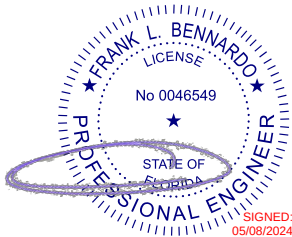
WELDED PIPE SPACER ANCHOR OR EWA
WITH 3/8" (GRADE 2 MIN.) TAP-IN BOLT
WITH 3 PINCHES PASSED THE THREAD
PLANE. MINIMUM EDGE DISTANCE = 1.75"
MAXIMUM SHIM THICKNESS = 0.25"

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



Stud Anchor Requirements for Single Frame Jambs			
Up to an including 70 psf			
Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 88"	6	4	22
90"	6	4	22
92"-96"	6	4	22

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024

FL# 16356.4

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101 ASHBURIDGE CIRCLE
WOODBIDGE, ON, CANADA L4L 3R5
Fleming **ASSA ABLOY**
COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16356.4)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (12-CUI-03g-01)	KL	FLB	06/28/13
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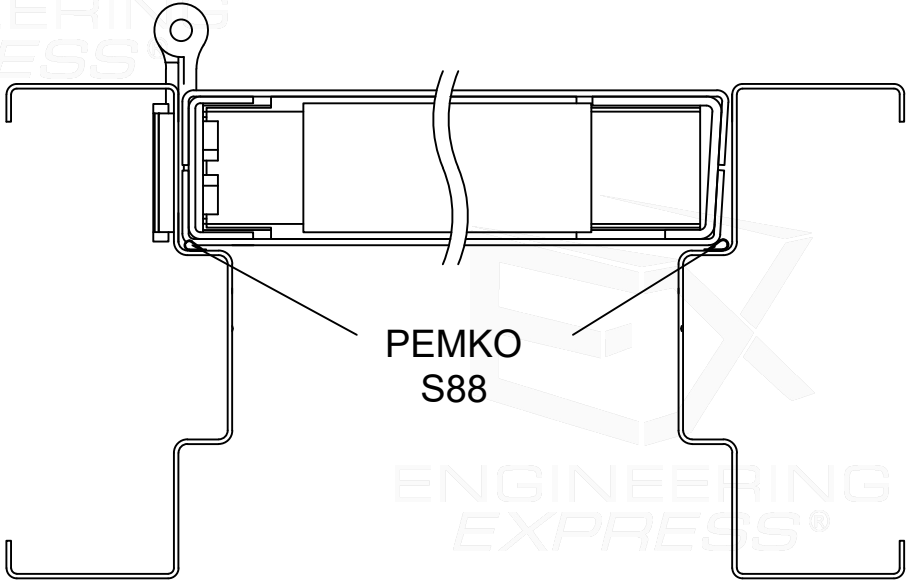
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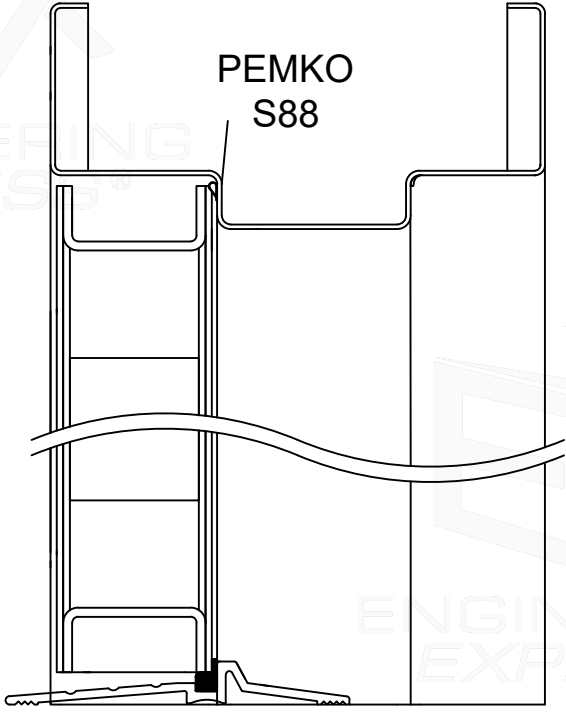
FLEMING DOOR PRODUCTS WEATHERSTRIP INFORMATION

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.

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



PEMKO S88



PEMKO S88

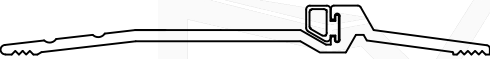
PEMKO 2005



PEMKO S88



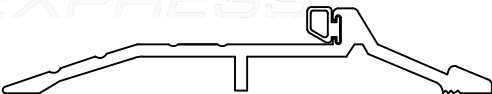
PEMKO 303



PEMKO 2005

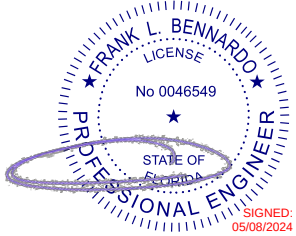


PEMKO 181



PEMKO 177

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WOODBIDGE, ON, CANADA L4L 3R5
Fleming Door Products
ASSA ABLOY
COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
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FL# 16356.4



PEMCO 312

PEMKO
P385

PEMKO 2008

PEMKO 346C

PEMKO
S771

PEMKO
S44

PEMKO
315CN

TYPICAL THRESHOLD MOUNTING DETAIL

1/4" ITW TAPCON W/
1-3/4" EMBEDMENT AND
1" MIN. EDGE DISTANCE
TO 3192 PSI CONCRETE

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WOODBIDGE, ON, CANADA L4L 3R5

COMMERCIAL STEEL EXTERIOR DOORS
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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, ACCESS 600, 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 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, 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.

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. These devices may be prefixed by Sym and can include 500F or 600F Series Trims.

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

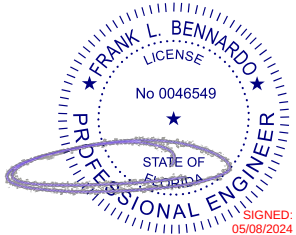
Access Control may be used.

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					

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