CECO DOOR PRODUCTS

DIVISION OF ASSA ABLOY DOOR GROUP, INC.

CECO GLAZED SINGLE DOORS LARGE MISSILE IMPACT (LMI) - LEVEL "D"

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 & USE OUTSIDE FLORIDA:

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INSTRUCTIONS FOR USING THIS APPROVAL

STEP 1: USE THE DOOR ELEVATIONS PROVIDED ON PAGE 2 THROUGH 4 TO DETERMINE THE APPLICABLE ASSEMBLY NUMBER

STEP 2: MOVE TO THE CHART BELOW THE DOOR ELEVATIONS, ALSO ON PAGE 2 THROUGH 4, 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.

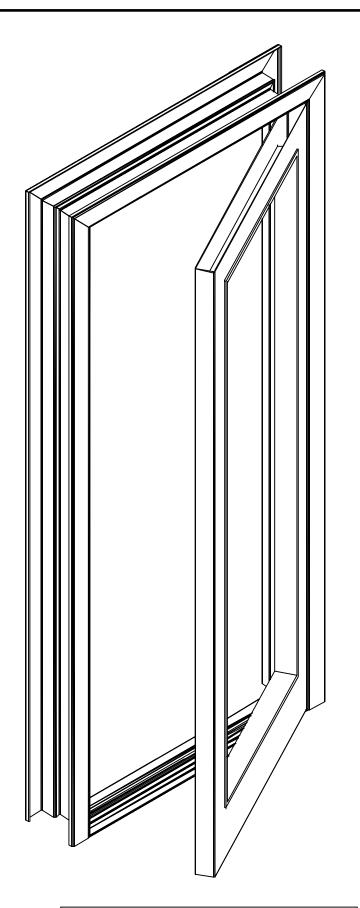
STEP 3: USE PAGES 6 THROUGH 8 TO DETERMINE YOUR GLAZING METHOD

STEP 4: USE PAGE 9 TO DETERMINE YOUR FRAMING PROFILES AND FRAMING CONSTRUCTION OPTIONS

STEP 5: USE THE TABLES ON PAGE 10 AND 11 TO DETERMINE THE ANCHOR TYPE AND SPACING, BASED ON THE YOUR PRESSURE AND SUBSTRATE CRITERIA

STEP 6: USE THE DETAILS PROVIDED ON PAGE 12 AND 13 TO DETERMINE YOUR WEATHERSTRIPPING OPTIONS

SHEET INDEX											
# SHEET	DESCRIPTION										
1	COVER SHEET										
2-6	ASSEMBLY OPTIONS										
7	OPTIONAL ASSEMBLY OPTIONS										
8-10	GLAZING DETAILS										
11	DOOR FRAME DETAILS										
12-13	DOOR FRAME ANCHORING INFORMATION										
14-15	DOOR FRAME WEATHER STRIPPING INFORMATION										
16	MANUFACTURERS AND ENGINEERS NOTES										
16	TOTAL										



FL# 16355.4

SSUE (12-CUI-03g-01) KL	ΚL	FLB	06/28
JPDATE	RWN	CSL	06/12
FBC UPDATE	JEM	FLB	10/03
FBC UPDATE	TAE	FLB	12/17
FBC (PREV 20-34881)	AMZ	RS	10/18

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SCALE: NTS UNLESS NOTE

FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS OR CODE

VISIT ECALC.IO/68038d



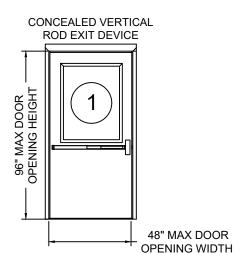
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FRANK BENNARDO, PE PE# 0046549 CA# 9885

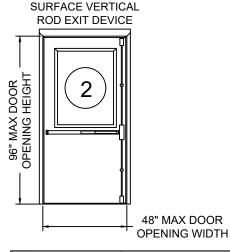
SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES

SCAN HERE:

ASSA ABLOY, the global leader in door opening solutions.

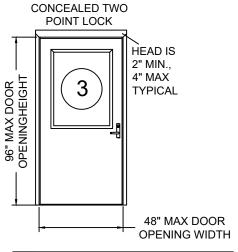


ASSEMBLY 1										
Design Pressure	Design Pressure									
Where Water	Where Water									
Infiltration Is NOT	Infiltration IS									
Required	Required									
+/-70 PSF	+/-50 PSF									

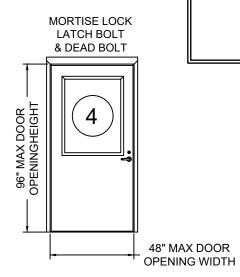


ASSEN	/IBLY 2					
Design Pressure	Design Pressure					
Where Water	Where Water					
Infiltration Is NOT	Infiltration IS					
Required	Required					
+/-70 PSF	+/-50 PSF					

Rixson 195 Pivot set with M19 intermediate pivots may be used



ASSEMBLY 3I										
Design Pressure	Design Pressure									
Where Water	Where Water									
Infiltration Is NOT	Infiltration IS									
Required	Required									
+/-70 PSF	+/-50 PSF									



FRANK BENNARDO, PE PE# 0046549 CA# 9885

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

Assembly	Door Series	Minimum Door Gauge	Des Pres	mum sign ssure sf)	Door (imum Opening ches)	Expo Gla	mum osed ass nes)	Maximum Area per Leaf	Door Swing		Latching Hardw	are Description
			Positive	Negative	Width	Height	Width	Height	(sq. in.)		Туре	Brand	Model
1	Trio, Trio-E ^a	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
											Surface	Corbin Russwin	ED5470(B) x M107
(2)	Trio, Trio-E ^a	18	70	70	48	96	32	42	1344	Out Swing	Vertical Rod	Sargent	HC4-8700
	,										vertical Rou	Yale	7170(F)WS
3	Trio, Trio-E ^a	18	70	70	48	96	32	42	1344	Out Swing	Concealed Two Point Lock	Sargent	WS-12-7000, HC-12-7000
	a	10	70	70	48	06	32	42	1344	In Swing	Mortise Lock	Corbin Russwin	ML2000, ML20600, ML20700, ML20800, ML20900
4	Trio, Trio-E ^a	Trio-E ^a 18	70	/0	40	96	32	42	1344	In-Swing	Latch Bolt &	Sargent	7800, 8200, R8200
											Dead Bolt	Yale	8800, S8800 x SYM
	a - Glazing may be Glasslar	y be Glasslam Safety Plus II;											
	Butt	4-1/2" x 4-1/2	" 0.134" thi	ck steel hin	ges or a	ny FBC a	proved h	inges ma	y be used.	Any SDI mem	ber hinge location	ons may be used.	
Hinges**	Continuous	McKinney HG	305, MCK-	12 HD, MC	K-14HD	, MCK-25I	HD, Mark	ar FM100	, FM200, FM	/300, FM3500	, FM100, or FM1	111, Pemko CFMSL	F-HD continuous hinges may be

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

Auxiliary Hardware

Pivots

maybe used.

1" diameter preparations for door position switches, Door position switches that fit in a cutout measuring 1.25" x 4.875", and Securitron EPT, EPTL, CEPT and SEPT

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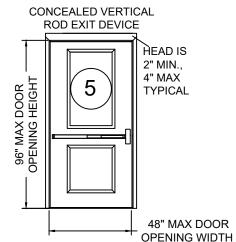
N OF ASSA ABLOY DOOR GROUP, INC. 9159 TELECOM DRIVE MILAN, TN 38358 COMMERCIAL STEEL EXTERIOR DOORS GLAZED SINGLE DOORS (LMI) - FBC (2023) FLORIDA STATEWIDE APPROVAL (FSA FL#16355

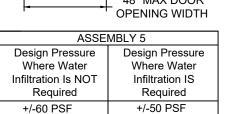
CECO I ECecoDoor ASSA ABLOY

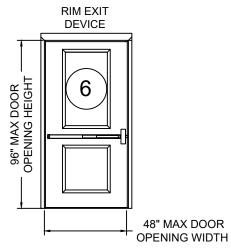
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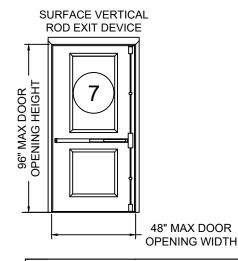
^{**} SUBSTITUTIONS, WITH FBC COMPONENT APPROVALS, MAY BE USED AS LONG AS THE SUBSTITUTIONS ARE WITHIN THE LIMITING DESIGN PARAMETERS OF THIS APPROVAL AND THE COMPONENT APPROVAL.



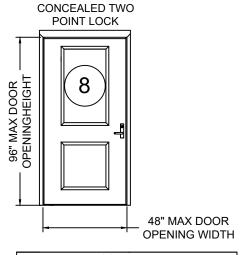




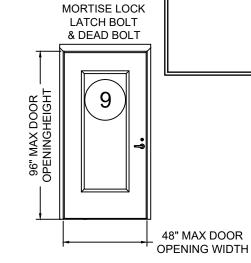
ASSEMBLY 6											
Design Pressure	Design Pressure										
Where Water	Where Water										
Infiltration Is NOT	Infiltration IS										
Required	Required										
+/-60 PSF	+/-50 PSF										



ASSEM	MBLY 7
Design Pressure	Design Pressure
Where Water	Where Water
Infiltration Is NOT	Infiltration IS
Required	Required
+/-60 PSF	+/-50 PSF



ASSEMBLY 8									
Design Pressure	Design Pressure								
Where Water	Where Water Infiltration IS								
Infiltration Is NOT									
Required	Required								
+/-60 PSF	+/-50 PSF								



ASSEMBLY 9										
Design Pressure Design Pressure										
Where Water										
OT Infiltration IS										
Required										
N/A										

FRANK BENNARDO, PE PE# 0046549 CA# 9885

Assembly	Door Series	Door Series	Minimum Door Gauge	De Pre	imum esign ssure osf)	Door (imum Opening ches)	Exp Gla	Maximum Exposed Glass (inches)		Door Swing	Latching Hardware Description			
			Positive	Negative	Width	Height	Width	Height	(sq. in.)		Туре	Brand	Model		
5	Medallion, Legion, Omega, Regent, Ultra, a,b,c	16	60	60	48	96	24	66	1584	Out Swing	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-MD-12-8600, WS-MD-8600, WS-MD-12-8600		
	Modellion Logion Omoge										Rim Exit Device	Corbin Russwin	ED5200S(A) x M107		
6	Medallion, Legion, Omega, Regent, Ultra,a,b,c	16	60	60	48	96	24	66	1584	Out Swing		Sargent	HC8800, 12-HC8800		
	rvegent, onla,a,b,c											Yale	7150(F)WS/7250M(F)WS		
7	Medallion, Legion, Omega, Regent, Ultra,a,b,c	16	60	60	48	96	24	66	1584	Out Swing	Surface	Corbin Russwin	ED5470(B) x M107		
	Regent, Otta,a,b,c										Vertical Rod	Yale	7170(F)WS		
8	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b,c}	16	60	60	48	96	24	66	1584	Out Swing	Concealed Two Point Lock	Sargent	WS-12-7000, HC-12-7000		
9	languagial Mayaradan adab.C	16	60	60	48	96	24	66	1584	Out Swing	-	Corbin Russwin	ML2000, ML20600, ML20700, ML20800, ML20900		
9	Imperial, Versadoor ^{a,b,c}	10	60	60	40	90	24	00	1504	Or In Swing	Latch Bolt & Dead Bolt	Sargent	7800, 8200, R8200		
												In Swing	Dead Boil	Yale	8800
	a - Glazing may be Glasslam Safety Plus II; c - 70 psf door desing required														

Glazing may be Glassiam Safety Plus II - Glazing may be 1/4" thick polycarbonate. Width limited to 22". Height limited to 33-1/2" c - 10 pst door desing required

	pb - Glazing may be 1/4 thick polycarbonate, viridin limited to 22 , height limited to 35-1/2							
Hinges**	Butt	McKinney 4-1/2" x 4-1/2" 0.134" thick steel hinges or any FBC approved hinges may be used. Any SDI member hinge locations may be used.						
	Continuous	Markar FM100, FM200, FM300, FM3500, FM100, or FM1111; Pemko CFMSLF-HD continuous hinges may be used. 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.						
	A	1" diameter preparations for door position switches, Door position switches that fit in a cutout measuring 1.25" x 4.875", and Securitron EPT, EPTL, CEPT and SEPT						

Auxiliary Hardware maybe used.

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N OF ASSA ABLOY DOOR GROUP, INC. 9159 TELECOM DRIVE MILAN, TN 38358

COMMERCIAL STEEL EXTERIOR DOORS GLAZED SINGLE DOORS (LMI) - FBC (2023) FLORIDA STATEWIDE APPROVAL (FSA FL#16355

CECO | **■**Ceco Door

KEMAKKS	220	DRWN CHKD	5
INIT ISSUE (12-CUI-03g-01) KL	KL	FLB	06/2
FBC UPDATE	RWN	CSF	1/90
2017 FBC UPDATE	JEM	FLB	10/0
2020 FBC UPDATE	TAE	FLB	12/1
2023 FBC (PREV 20-34881)	AMZ	RS	10/18

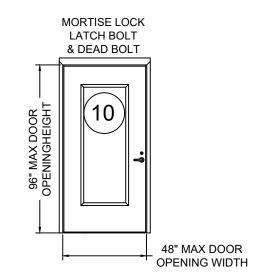
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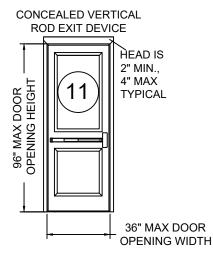
^{*}In-Swing Configurations not approved for water infiltration. See Hardware notes for additional Hardware options.

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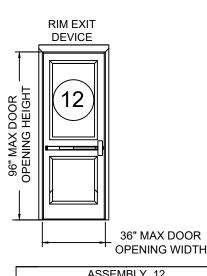
PRODUCTS ILLUSTRATED IN THIS DOCUMENT ARE QUALIFIED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT IS 9 LB 2 X 4 AT 50 FEET PER SECOND OR 350 FT-LBS. (MISSILE LEVEL D) PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.



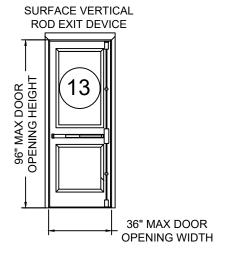
ASSEMBLY 10						
Design Pressure	Design Pressure					
Where Water	Where Water					
Infiltration Is NOT	Infiltration IS					
Required	Required					
+/-60 PSF	+/-50 PSF					
'	'					



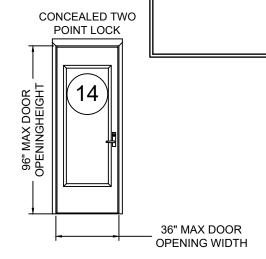
ASSEMBLY 11						
Design Pressure	Design Pressure					
Where Water	Where Water					
Infiltration Is NOT	Infiltration IS					
Required	Required					
+/-60 PSF	+/-50 PSF					



ASSEIVIDLY 12							
Design Pressure	Design Pressure						
Where Water	Where Water						
Infiltration Is NOT	Infiltration IS						
Required	Required						
+/-60 PSF	+/-50 PSF						



ASSEMBLY 13						
Design Pressure	Design Pressure					
Where Water	Where Water					
Infiltration Is NOT	Infiltration IS Required					
Required						
+/-60 PSF	+/-50 PSF					



FRANK BENNARDO, PE PE# 0046549 CA# 9885

FL

ASSEM	BLY 14		
Design Pressure	Design Pressure		
Where Water	Where Water		
Infiltration Is NOT	Infiltration IS		
Required	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	(54. 11.)		Туре	Brand	Model
10	Medallion, Legion, Omega,	16	60	60	48	18 96	24	66	1584	Out Swing	Mortise Lock Latch Bolt &	Corbin Russwin	ML2000, ML20600, ML20700, ML20800, ML20900
10	Regent, Ultra ^{a,b,c}	10	60	60	40	90	24	00	1304	Out Swing	Dead Bolt	Sargent	7800, 8200, R8200
											Dead Boil	Yale	8800,
11	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	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
												Corbin Russwin	ED5200S(A) x M107
12	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	36	96	24	66	1584	Out Swing	Rim Exit Device	Sargent	HC8800, 12-HC8800
												Yale	7150(F)WS/7250M(F)WS
	Imperial, Medallion, Legion,										Curtoso	Corbin Russwin	ED5470(B) x M107
13	Omega, Regent, Ultra,	16	60	60	36	96	24	66	1584	Out Swing	Surface Vertical Rod	Sargent	HC8700, 12-HC8700
	V ersadoor ^{a,b}										vertical Rou	Yale	7170(F)WS
14	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	36	96	24	66	1584	Out Swing	Concealed Two Point Lock	Sargent	WS-12-7000, HC-12-7000
	a - Glazing may be Glasslan	c - 70 psf door desgin required											
		azing may be 1/4" thick polycarbonate, Width limited to 22", Height limited to 33-1/2"											
	Butt								hinges may	be used. An	y SDI member h	inge locations may	be used.
Hinges**	Continuous	Markar FM100, FM200, FM300, FM3500, FM100, or FM1111; Pemko CFMSLF-HD continuous hinges may be used. Any FBC approved continuous hinge may be used.											
	Pivots	Rixson 195 F	ivot set wit	th M19 inte	mediate	pivots ma	ay be use	d. Any FB	C approved	d pivot may be	used.		

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

maybe used.

Auxiliary Hardware

** 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.

1" diameter preparations for door position switches, Door position switches that fit in a cutout measuring 1.25" x 4.875", and Securitron EPT, EPTL, CEPT and SEPT

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MILAN, TN 38358
STEEL EXTERIOR DOORS
BOCA RATO
BOORS (LMI) - FBC (2023)

MILAN, TN 38358

COMMERCIAL STEEL EXTERIOR DOORS

GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16355

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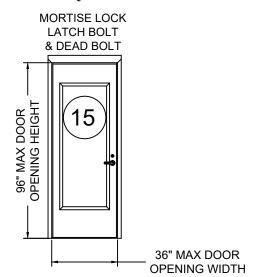
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EBC UPDATE TAE FLB 12/17/2
EBC (PREV 20:34881) AMZ RS 10/18/2

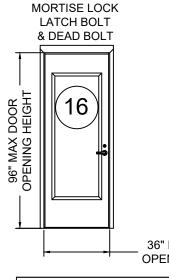
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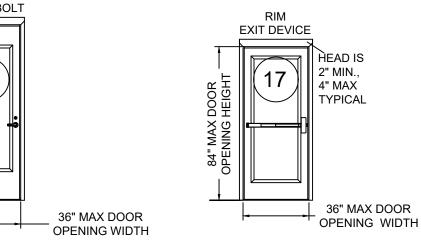
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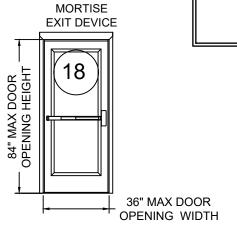


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ASSEMBLY 18						
Design Pressure	Design Pressure					
Where Water	Where Water					
Infiltration Is NOT	Infiltration IS					
Required	Required					
+/-60PSF	+/-50 PSF					
•						

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

ASSEMBLY 16						
Design Pressure	Design Pressure					
Where Water	Where Water					
Infiltration Is NOT	Infiltration IS					
Required	Required					
+/-60PSF	+/-50 PSF					

ASSEMBLY 17							
Design Pressure	Design Pressure						
Where Water	Where Water Infiltration IS						
Infiltration Is NOT							
Required	Required						
+/-60PSF	+/-50 PSF						

Assembly	Door Series	Minimum Door Gauge	Des	mum sign sure sf)	Door (imum Opening thes)	Exp	mum osed ass hes)	Maximum Area per Leaf (sq. in.)	Door Swing		Latching Hardwa	are Description
			Positive	Negative	Width	Height	Width	Height	(34. 11.)		Туре	Brand	Model
												Corbin Russwin	ML2000, ML20600, ML20700, ML20800, ML20900
15	Imperial, Versadoor ^{a,b}	16	60	60	36	96	24	66	1584	Out Swing or In Swing*	Mortise Lock Latch Bolt & Dead Bolt	Sargent	7800, 8200, R8200
												Yale	8800, S8800 x SYM
												Corbin Russwin	ML2000, ML20600, ML20700, ML20800, ML20900
16	Medallion, Legion, Omega, Regent, Ultra ^{a,b}	16	60	60	36	96	24	66	1584	Out Swing	Mortise Lock Latch Bolt & Dead Bolt	Sargent	7800, 8200, R8200
												Yale	8800
												Corbin Russwin	ED5200S(A) x M107
	Imperial, Medallion, Legion,										Rim Exit	Sargent	HC8800, 12-HC8800
17	Omega, Regent, Ultra,	18	60	60	36	84	24	66	1584	Out Swing	Device	Sargent	WS-8800, WS-12-8800
	Versadoor ^{a,b}										Bovioc	VingCard Elsafe A/S	VC3000
												Yale	7150(F)WS/7250M(F)WS
18	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	18	60	60	36	84	24	66	1584	Out Swing	Mortise Exit	Sargent	WS-8900, WS-12-8900
	a - Glazing may be Glasslam	Safety Plus I	i;							•	•		
	b - Glazing may be 1/4" thick												
	Butt											nge locations may b	
Hinges**	Continuous											. Any FBC approved c	ontinuous hinge may be used.
	Pivots	Rixson 195 P				•	•			<u> </u>			
,	Auxiliary Hardware	1" diameter pr maybe used.	eparations	for door po	sition sv	vitches, D	oor positio	on switche	es that fit in	a cutout meas	suring 1.25" x 4.8	375", and Securitron	EPT, EPTL, CEPT and SEPT

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

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FRANK BENNARDO, PE PE# 0046549 CA# 9885 BENNARO FL ONAL ENTIN

FL# 16355.4

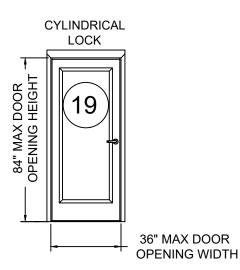
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9159 TELECOM DRIVE
MILAN, TN 38358 COMMERCIAL STEEL EXTERIOR DOORS GLAZED SINGLE DOORS (LMI) - FBC (2023) FLORIDA STATEWIDE APPROVAL (FSA FL#16355

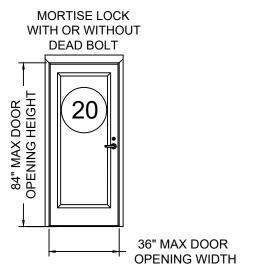
ECecoDoor ASSA ABLOY

23-68038d

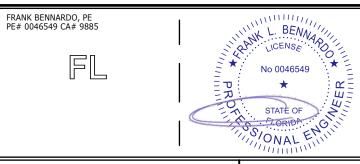




ASSEM	IBLY 19
Design Pressure	Design Pressure
Where Water	Where Water
Infiltration Is NOT	Infiltration IS
Required	Required
+/-60 PSF	+/-50 PSF



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



FL# 16355.4

POSTAL ADDRESS: 234 NORTH FEDERAL HWY # BOCA RATON, FL 33431 ENGINEERINGEXPRESS.CC

CECO DOOR PRODUCTS
DIVISION OF ASSA ABLOY DOOR GROUP, INC.
9159 TELECOM DRIVE
MILAN, TN 38358 COMMERCIAL STEEL EXTERIOR DOORS GLAZED SINGLE DOORS (LMI) - FBC (2023) FLORIDA STATEWIDE APPROVAL (FSA FL#16355

ECECODOOR ASSA ABLOY

23-68038d

SCALE: NTS UNLESS NOTED



Assembly	Door Series	Minimum Door Gauge		sign sure	Door (imum Opening ches)	Expo Gla	mum osed ass hes)	Maximum Area per Leaf (sq. in.)	Door Swing		Latching Hardwa	are Description
			Positive	Negative	Width	Height	Width	Height	(34. 111.)		Type	Brand	Model
	Imperial, Medallion, Legion,									Out Swing	Cylindrical	Corbin Russwin	CL3100, CL3300, CL3500, CL3800, CL33900
19	Omega, Regent, Ultra,	18	60	60	36	84	24	66	1584	or	Lock	Sargent	6500, 7, 10, 10G77
	Versadoor ^{a,b}									In Swing*	LOOK	Yale	5300LN, 5400LN
												Corbin Russwin	ML2000, ML20600, ML20700, ML20800, ML20900
20	Imperial, Medallion, Legion, Omega, Regent, Ultra,	18	60	60	36	84	24	66	1584	Out Swing or	 Mortise Lock	Sargent	7800, 8200, R8200
20	Versadoor ^{a,b}	10	00	00	30	04	24	00	1304	In Swing*	Wortise Lock	VingCard Elsafe A/S	ANSI, Classic, Signature
												Yale	8800
	a - Glazing may be Glasslanb - Glazing may be 1/4" thick	•		mited to 22	2", Heig	ıht limited	to 33-1/2	2"					
	Butt	McKinney 4-1	/2" x 4-1/2"	0.134" thic	k steel h	ninges or a	any FBC a	pproved I	ninges may	be used. Any	y SDI member h	inge locations may b	e used.
Hinges**	Continuous	 		· · · · · · · · · · · · · · · · · · ·							<u>-</u>	. Any FBC approved c	ontinuous hinge may be used.
	Pivots	Rixson 195 P				•				· · · · · · · · · · · · · · · · · · ·			
,	Auxiliary Hardware	1" diameter p maybe used.	=	for door po	osition s	witches, D	Door positi	on switch	es that fit in	a cutout mea	suring 1.25" x 4.	875", and Securitron	EPT, EPTL, CEPT and SEPT

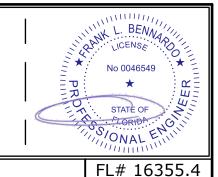
*In-Swing Configurations not approved for water infiltration. See Hardware notes for additional Hardware options.

** 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.

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. (MISSILE LEVEL D) PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.

FRANK BENNARDO, PE PE# 0046549 CA# 9885

FL

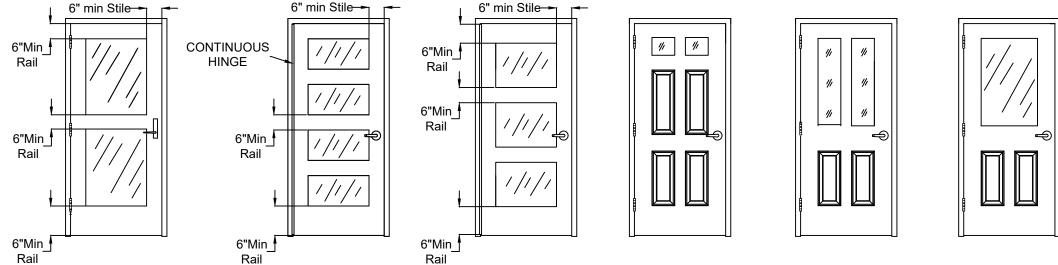


OPTIONAL ELEVATIONS

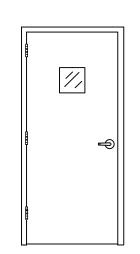
6" min Stile -

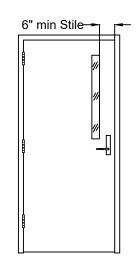
6"Min

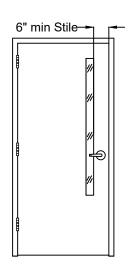
Rail

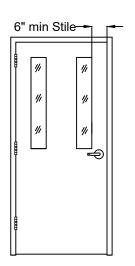


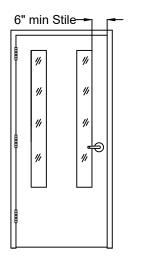
CECO DOOR PRODUCTS
DIVISION OF ASSA ABLOY DOOR GROUP, INC.
9159 TELECOM DRIVE
MILAN, TN 38358

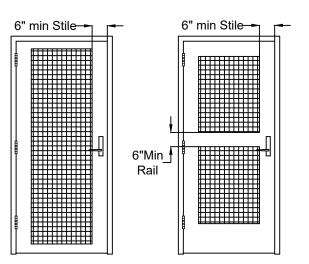


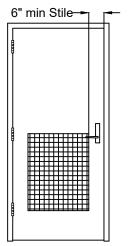












EMBOSSED PANEL DOORS LIMITED TO 18 GA AND POLYURETHANE CORE.

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COMMERCIAL STEEL EXTERIOR DOORS GLAZED SINGLE DOORS (LMI) - FBC (2023) FLORIDA STATEWIDE APPROVAL (FSA FL#16355

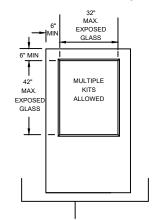
■CecoDoor

23-68038d



GLAZING OPTION GLASSLAM SAFETY PLUS II LAMINATED GLASS

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

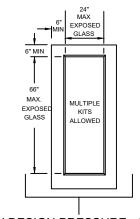


MAX DESIGN PRESSURE +/- 70 PSF

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.) POLYCARBONATE USED IN THE HVHZ MUST HAVE A VALID NOA.

GLAZING OPTION GLASSLAM SAFETY PLUS II LAMINATED GLASS

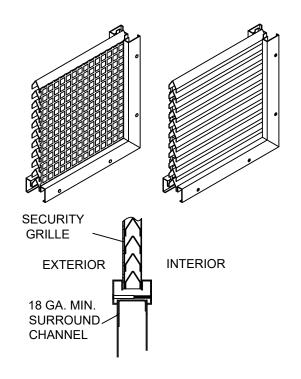


MAX DESIGN PRESSURE +/- 60 PSF

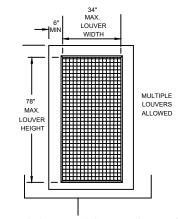
GLASSLAM SAFETY PLUS II

- 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.

ROCKWOOD LV-WS LOUVER



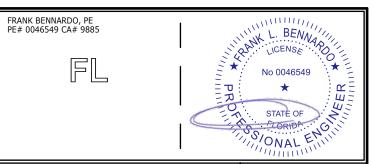
GLAZING OPTION ROCKWOOD LV-WS LOUVER



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



FL# 16355.4

BOCA RATON, ENGINEERINGEX

PRODUCT LOY DOOR GROUP, I DOOR PROD

OF ASSA ABLOY DOOR G

9159 TELECOM DRIVE

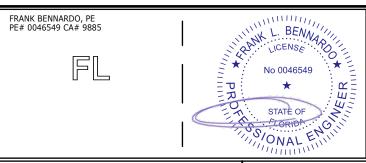
MILAN, TN 38358

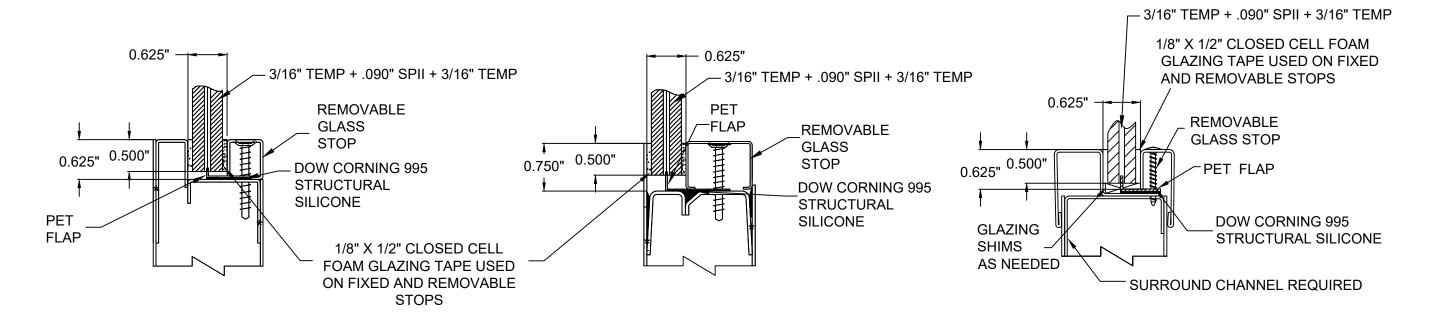
ECeco Door

IT ISSUE (12-CUI-03g-01) KL	Ā	FLB	06/28/13
BC UPDATE	RWN	TSO	06/12/15
117 FBC UPDATE	JEM	FLB	10/03/17
320 FBC UPDATE	TAE	FLB	12/17/20
323 FBC (PREV 20-34881)	AMZ	RS	10/18/23

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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 #6 x 1-1/4" 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.
- 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 #6 x 1-1/4" 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.

FL# 16355.4

AESS.

DDRESS:
FRAL HWY #7664

POSTAL ADDRESS: 34 NORTH FEDERAL HWY #: BOCA RATON, FL 33431 ENGINEERINGEXPRESS.CO

DOOR PRODUCTS
OF ASSA ABLOY DOOR GROUP, INC.
9159 TELECOM DRIVE
MILAN, TN 38358

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CECO
ECCODOOL DIVISION
ASSA ABLOY

UI-03g-01) KL FLB 06/28/13

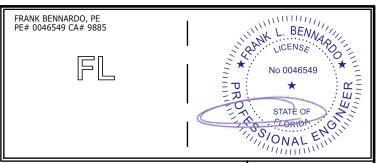
TE JEM FLB 10/03/17

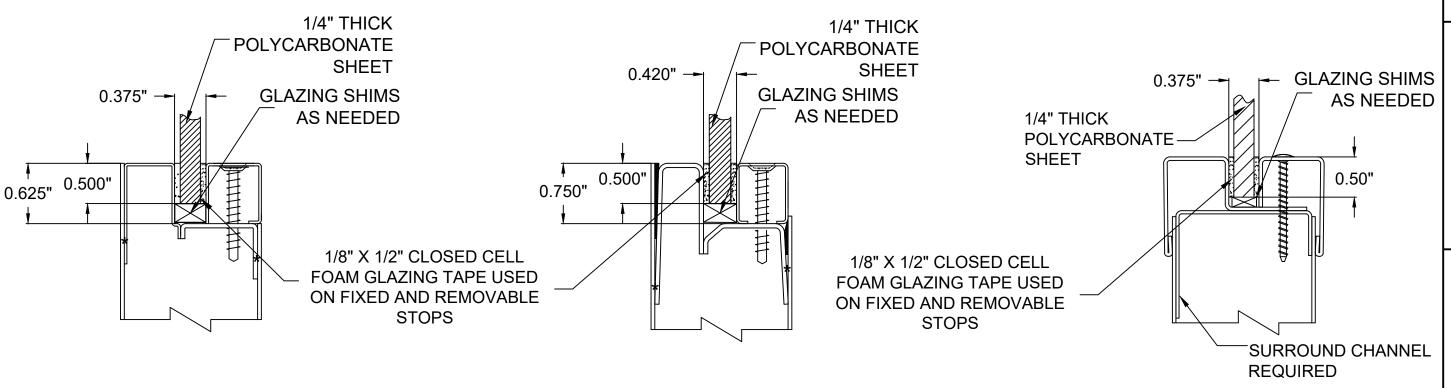
TE TAE FLB 12/17/20

'20-34881) AMZ RS 10/18/23

23-68038d







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 glass stop 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 polycarbonate 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 polycarbonate on the exposed foam tape.
- 7) Place glazing shims, as needed, then set the polycarbonate on the foam glazing tape.
- 8) Adjust the polycarbonate, as necessary, to center the polycarbonate in the cutout.
- 9) If the release is plastic, grasp the free end of the plastic release, while holding the polycarbonate to keep it from moving. Then slowly pull the plastic release off the foam tape that was applied to the fixed stop.
- 10) Apply 1/8" x 1/2" closed cell foam glazing tape to the removable stop.
- 11) 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.
- 12) 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 polycarbonate.
- 13) Using the alignment marks, position the removable stops against the polycarbonate.
- 14) Install and tighten the glass stop screws in the removable stops. Be careful not to over tighten.
- 15) 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.
- 16) 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.

FL# 16355.4

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SA ABLOY DOOR GROUP, INC.
TELECOM DRIVE
LAN, TN 38358

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ASSA ABLOY

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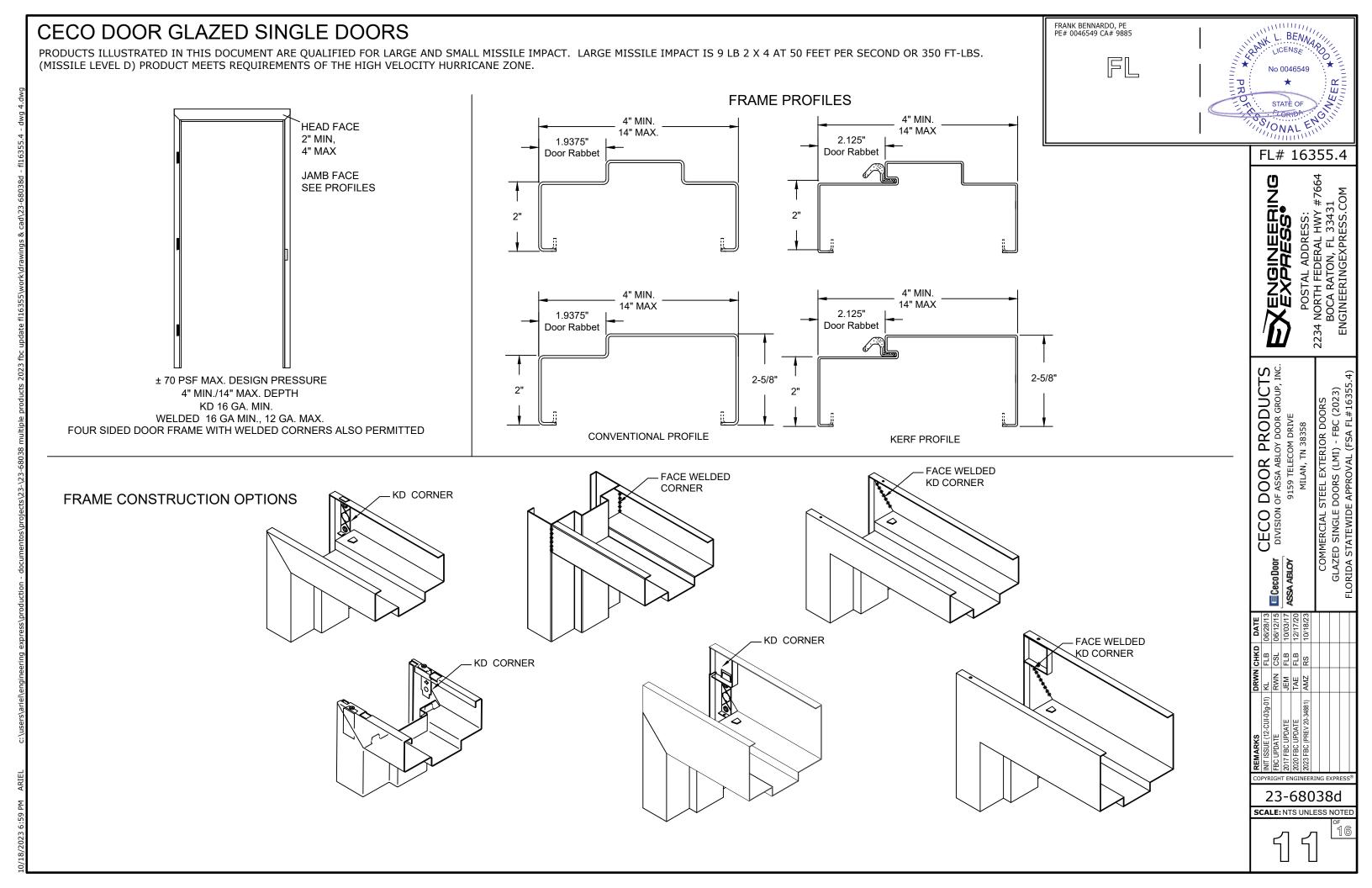
FBC (PREV 20:34881) AMZ RS 10/18/2

FBC (PREV 20:34881) AMZ RS 10/18/2

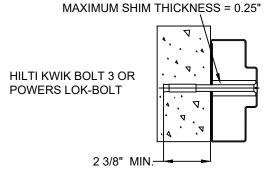
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SCALE: NTS UNLESS NOTE

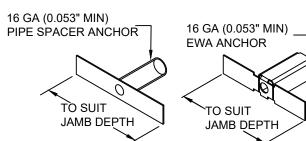
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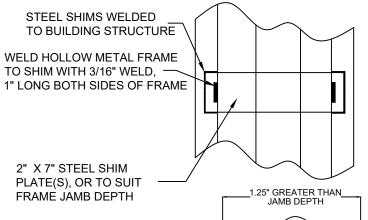
EXISTING MASONRY OR POURED CONCRETE, 3000 psi MIN. WELDED PIPE SPACER OR EWA ANCHOR WITH 3/8" EXPANSION ANCHOR BOLTS USING 3/8" GRADE 5 BOLT MINIMUM EDGE DISTANCE = 4.0"

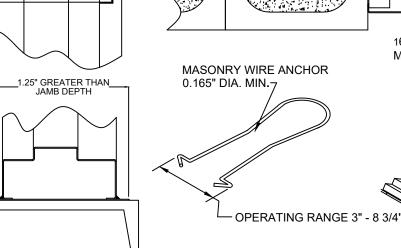


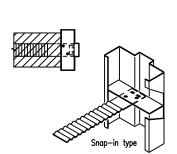


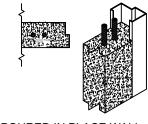


¼" MAX. THICK A-36 STEEL SHIMS WELDED TO STRUCTURAL BUILDING MEMBER WITH FILLET WELDS MEASURING 2" LONG USING E6018 ELECTRODES. FILLET WELD SIZE SAME AS SHIM THICKNESS FOR 0.053" TO 0.125" SHIM THICKNESS. WELD SIZE 1/8" FOR > 0.125" TO 1/4" SHIM THICKNESS.









FRANK BENNARDO, PE PE# 0046549 CA# 9885

16 GA (0.053" MIN)

MASONRY TANCHOR

MAXIMUM SHIM THICKNESS 0.25

FILLED WITH 3000 PSI MORTAR

CMU BLOCK AND THROAT OF FRAME

MAXIMUM SHIM

SPACE 1/4"

YOKE AND STRAP MASONRY ANCHOR

MASONRY "T" ANCHOR (ADJUSTABLE)

MASONRY "T" ANCHOR

POURED IN PLACE WALL

Expansion Sh	ell Anchor Requi	irements For S	Single Frame
	Up to a	an including 70) psf
Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 84"	12	4	19
90"	12	4	19
92"-96"	12	4	19

Requ	irements For Sir	ngle Frame Ja	mbs
	Up to a	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
92"-96"	12	4	24

Masonry Strap, Masonry T, and Masonry Wire Anchor

FL# 16355.4

S/ONAL EN

L. BENNARO

EFFING 30 ESS: HWY #7664 33431

POSTAL ADDRESS: 234 NORTH FEDERAL HWY #7 BOCA RATON, FL 33431 ENGINEERINGEXPRESS.CO

DOOR PRODUCTS

OF ASSA ABLOY DOOR GROUP, INC.
9159 TELECOM DRIVE
MILAN, TN 38358

STEEL EXTERIOR DOORS

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ASSA ABLOY

COMMER

CECO

ECecoDoor

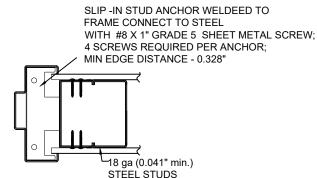
INIT ISSUE (12-CUI-039-01) KL		FLB	06/28/1
FBC UPDATE	RWN	CSL	06/12/1
2017 FBC UPDATE	JEM	FLB	10/03/1
2020 FBC UPDATE	TAE	FLB	12/17/2
2023 FBC (PREV 20-34881)	AMZ	RS	10/18/2

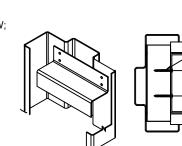
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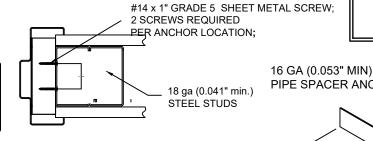
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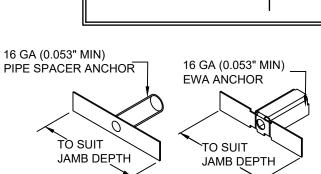
12

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. (MISSILE LEVEL D) PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.









FRANK BENNARDO, PE PE# 0046549 CA# 9885

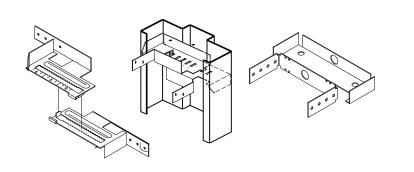
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PRODUCT LOY DOOR GROUP, 1 DOOR OF ASSA ABLO

23-68038d

SCALE: NTS UNLESS NOTE

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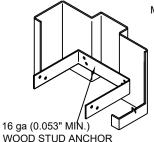


WELDED WOOD STUD ANCHOR WITH #8 X 1" GRADE 5 SHEET METAL SCREW; 4 SCREWS REQUIRED PER ANCHOR; MIN EMBEDMENT = 1"MIN EDGE DISTANCE = 0.524"

16 ga (0.053" MIN.)

WOOD STUD ANCHOR

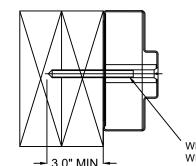
WOOD STUD



4 SCREWS REQUIRED PER ANCHOR: MIN EMBEDMENT = 1"MIN EDGE DISTANCE = 0.524 WOOD STUD

WITH #8 X 1" GRADE 5 SHEET METAL SCREW;

WELED WOOD STUD ANCHOR



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

> Pocket provided for 1/2" or 5/8" thick wall board

> > METAL STUD "Z"

ANCHOR

TO SUIT

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

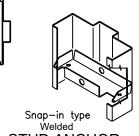
WELDED PIPE SPACER OR EWA ANCHOR

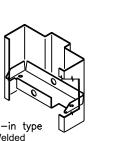
PLANE. MINIMUM EDGE DISTANCE = 1.75" MAXIMUM SHIM THICKNESS = 0.25"

WITH 3/8" (GRADE 2 MIN.) TAP-IN BOLT

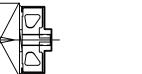
WITH 3 PINCHES PASSED THE THREAD

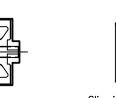
Pocket provided for 1/2" or 5/8"	
thick wall board	
Flush	
with stud	
	:









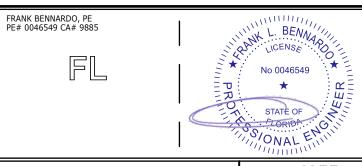


Stud Anchor Requirements for Single Frame Jambs Up to an including 70 psf Opening Max. Distance Maximum Min. Anchor Height From End of Spacing Quantity (inches) **Jamb** (inches) Up to 84" 6 21 5 90" 21 6 5 21 92"-96" 6 6

METAL STUD ANCHOR

WELDED SLIP-IN BUTTERFLY ANCHOR LIMITED TO 3'0" X 7'0" MAX

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



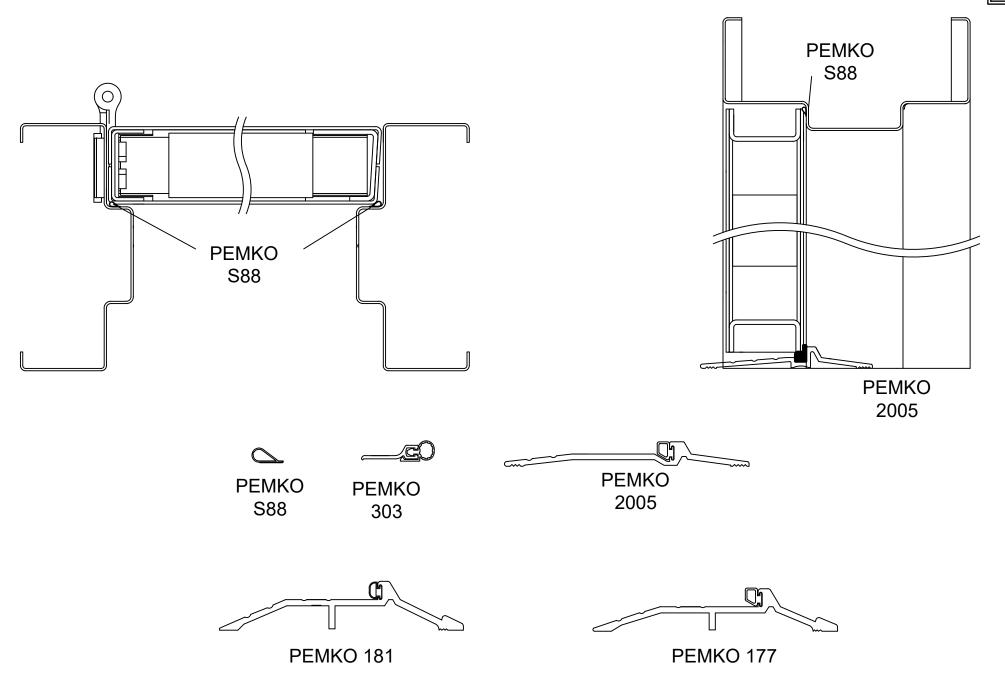
FL# 16355.4

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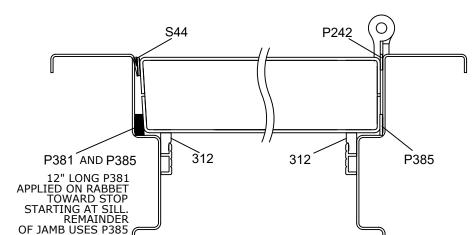
DOOR PRODUCTS OF ASSA ABLOY DOOR GROUP, INC.

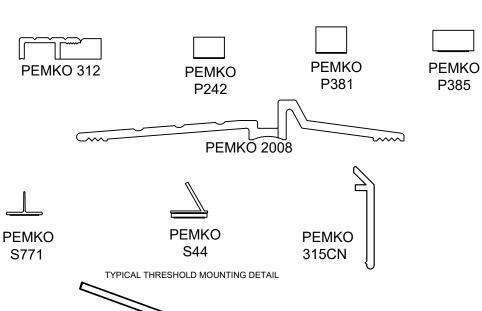
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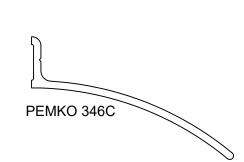
PEMKO WEATHERSTRIP USED ON CECO DOORS AND FRAMES WHERE WATER INFILTRATION IS REQUIRED.





12" O.C. TYP.

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



FRANK BENNARDO, PE PE# 0046549 CA# 9885

FL

12" LONG P381
APPLIED ON RABBET
TOWARD STOP
STARTING AT SILL.
REMAINDER
OF JAMB USES P385 SINGLE DOOR



FL# 16355.4

ONAL ENTIN

NY L BENNAS

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DOOR PRODUCTS

N OF ASSA ABLOY DOOR GROUP, INC.
9159 TELECOM DRIVE
MILAN, TN 38358

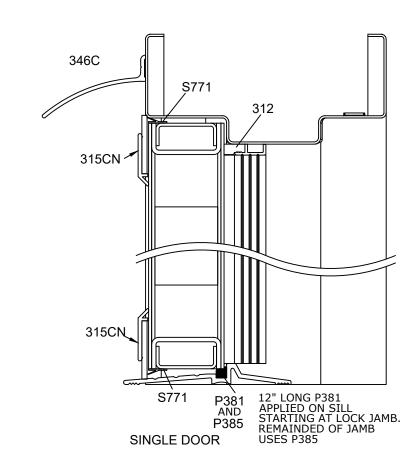
CECO

■CecoDoor

SSUE (12-CUI-03g-01) KL	KL	FLB	06/28/13
PDATE	RWN	CSL	06/12/15
BC UPDATE	JEM	FLB	10/03/17
BC UPDATE	TAE	FLB	12/17/20
BC (PREV 20-34881)	AMZ	RS	10/18/23

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HARDWARE NOTES

Corbin Russwin

The ED5200(S)A / ED4200(S)A x M107 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 FE707A, FE708A, WS707AKM, or WS708AKM Hardware Mullion with the ED5200(S)A / ED4200(S)A x M107 Rim

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 CL3300 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 CL3300 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.

May also use the ML20100 and ML20200 mortise locks.

The SELP10 and IN 120 Access Control may be used with CL3300 Cylindrical Lock or ML2000 Mortise Lock.

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.

The HC8800 Series Rim Exit, WS 8800 Series Rim Exit, and WS-8900 Series Mortise Exit maybe prefixed 53, 55, 55-56, 56, 57, 58, AWE, B, BT, ET, H1, H2, KP, LK, LU, M1, N1, N2, PA, PK, PG, P1, P2, IPSKM, CPKM, IPSM, CPM, IM, IKM, PRX, S1, S2, S3, IA, IK, IN, TK, TL, TP and TU.

Use HC980, 12-HC980, HCL980, 12-HCL980 Hardware Mullion with the HC8800 Series Rim Exit.

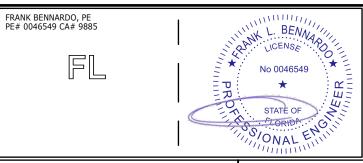
Series HT-56- can be used same as the 53-56- on the 80 Series devices. Exceptions include the following prefixes either used alone or in combination: 53-, 55-, 57-, 58-, 59- and AL.

All 80 Series employing HiO technology and the 55 option are designated HT-55-.

The MD8600 Series Concealed Vertical Rod Exit and 7000 Series Concealed Multi-point Lock may be prefixed 53, 55, 56, 57, 58, 59, BT, ET, H1, H2 and TL.

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 10 Line / 10G77 Cylindrical Locks and 8200 / R8200 mortise Locks may be prefixed AWE, B, PG, P1, P2, IPSKM, CPKM. IPSM. CPM, IM, IKM, PRX, IA, IK, IN, KP, LK, LU, PA, PK, H1, H2, N1, N2, S1, S2, S3, TK, TL, TP and TU.



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

nexTouch Access Control may be used on single 3'0" x 7'0" assemblies with 4700LN cylindrical lock at design pressures of 60 psf or less.

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 Yale 8800 mortise lock. The UNL may be used on 60 psf rated single 3'0" x 7'0" assemblies with a Corbin Russwin CL3100 / CL3300 / CL3500 / CL3800, Sargent 6500 / 7 /10, or Yale 5300 / 5300LN / 5400 / 5400LN Cylindrical Locks.

The ICPT Wireless Inductive Power Transfer may be used.

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PRODUCTS LOY DOOR GROUP, IN COMMERCIAL STEEL EXTERIOR DOORS AZED SINGLE DOORS (LMI) - FBC (2023) DA STATEWIDE APPROVAL (FSA FL#16355 DOOR PRODI 1 OF ASSA ABLOY DOOR GF 9159 TELECOM DRIVE MILAN, TN 38358

GLAZE FLORIDA §

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