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CECO DOOR PRODUCTS

DIVISION OF ASSA ABLOY DOOR GROUP, INC.

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

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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

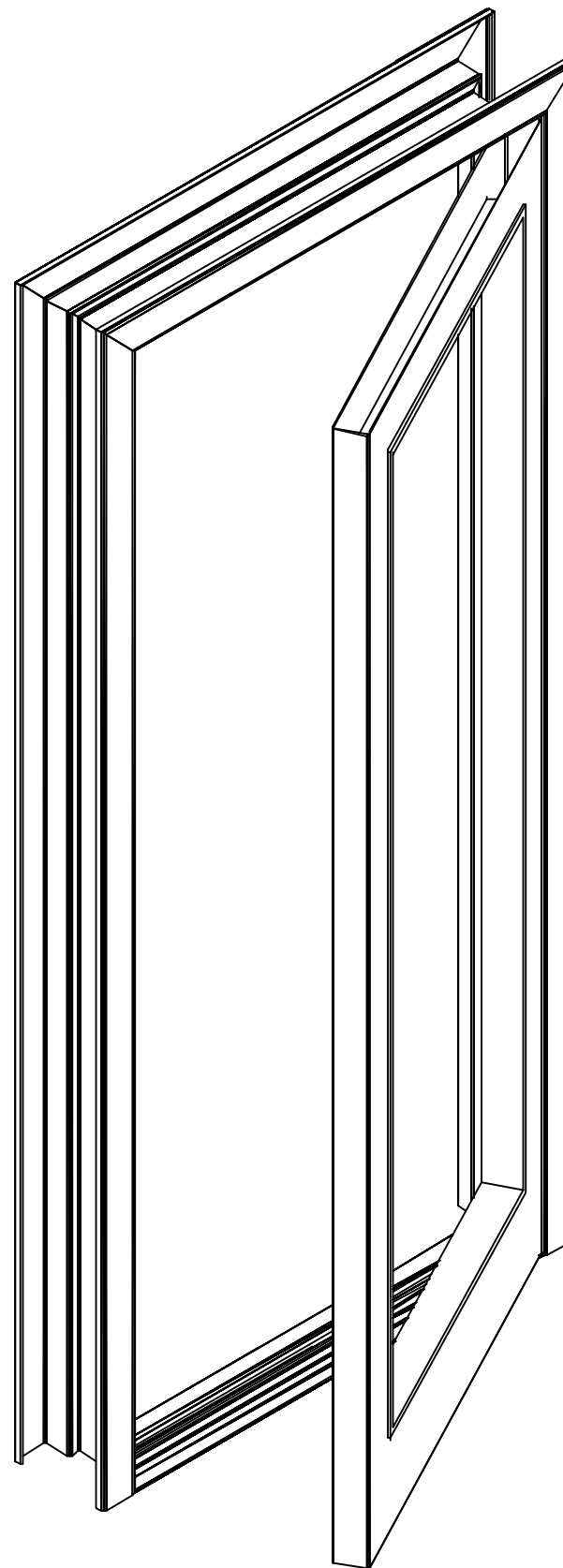
STEP 4: USE PAGE 9 TO DETERMINE YOUR FRAMING PROFILES AND FRAMING CONSTRUCTION OPTIONS

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



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PE# 0046549 CA# 9885

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#16355.4)

REMARKS	DRWN	CHKD	DATE
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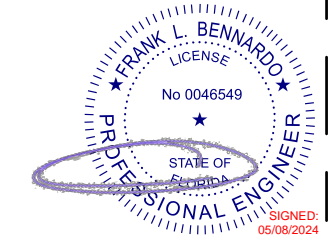


ASSA ABLOY, the global leader in door opening solutions.

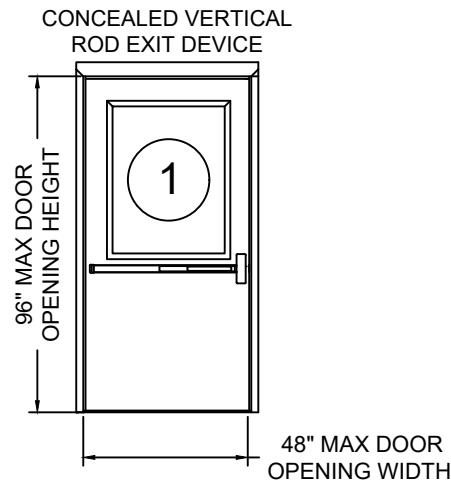
CECO DOOR GLAZED SINGLE DOORS

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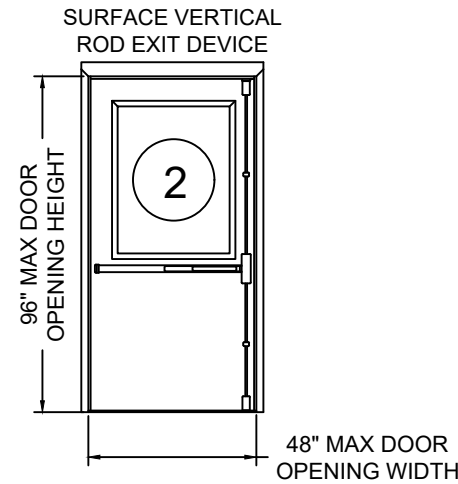
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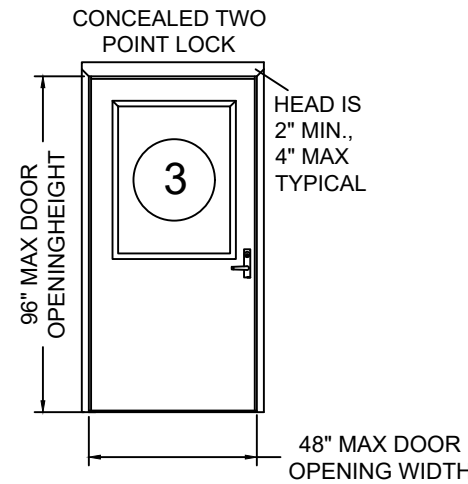
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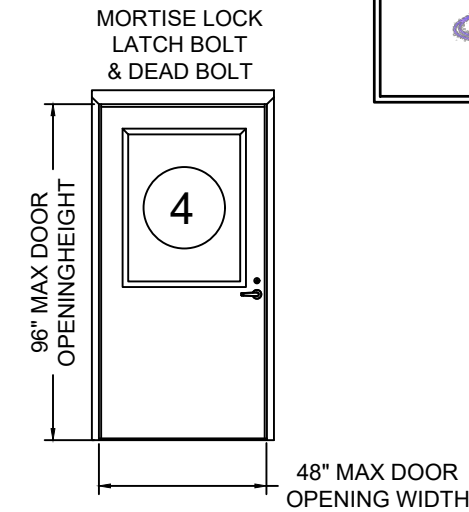
ASSEMBLY 1	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-50 PSF



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



ASSEMBLY 3I	
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

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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	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
2	Trio, Trio-E ^a	18	70	70	48	96	32	42	1344	Out Swing	Surface Vertical Rod	Corbin Russwin	ED5470(B) x M107
												Sargent	HC4-8700
												ASSA ABLOY ACCENTRA	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
												Corbin Russwin	MP9800 (A/B) x M107
4	Trio, Trio-E ^a	18	70	70	48	96	32	42	1344	In-Swing	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000
												Sargent	7800, 8200, R8200
												ASSA ABLOY ACCENTRA	8800
a - Glazing may be Glasslam Safety Plus II;													
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.

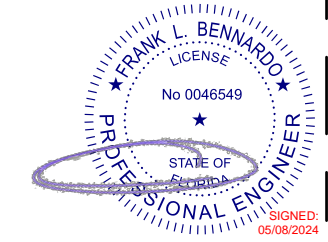
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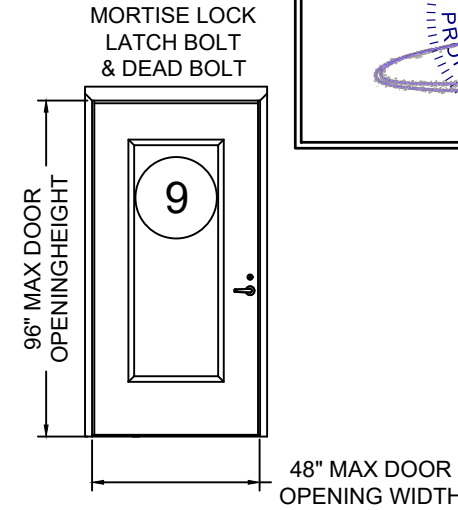
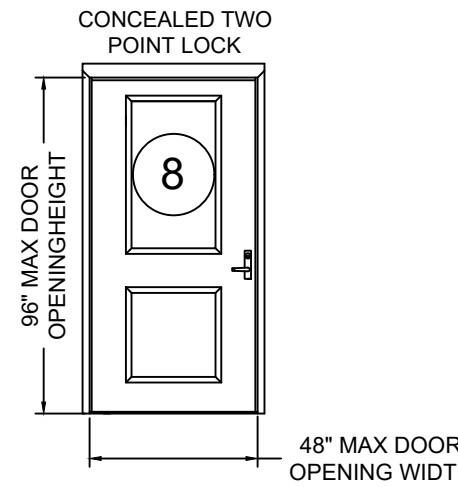
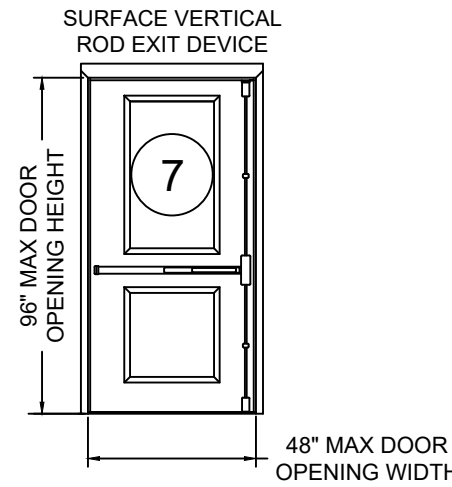
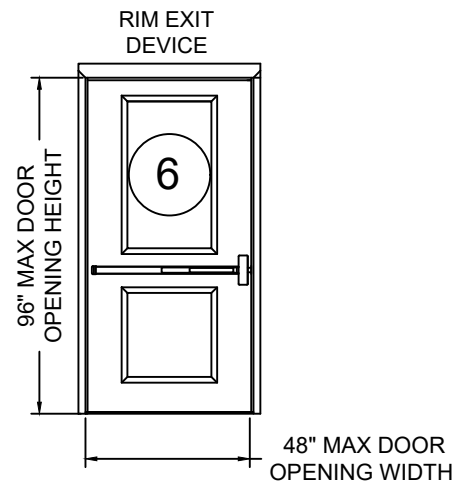
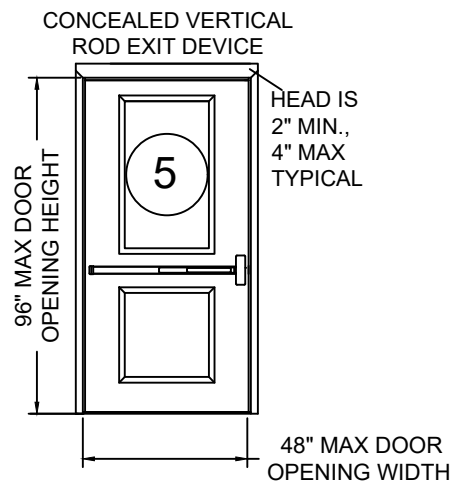
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PE# 0046549 CA# 9885



MAY 8, 2024



ASSEMBLY 5	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60 PSF	+/-50 PSF

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

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

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

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

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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
5	Medallion, Legion, Omega, Regent, Ultra ^{a,b}	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
6	Medallion, Legion, Omega, Regent, Ultra ^{a,b}	16	60	60	48	96	24	66	1584	Out Swing	Rim Exit Device	Corbin Russwin	ED5200S(A) x M107
												Sargent	HC8800, 12-HC8800
												ASSA ABLOY ACCENTRA	7150(F)WS/7250M(F)WS
7	Medallion, Legion, Omega, Regent, Ultra ^{a,b}	16	60	60	48	96	24	66	1584	Out Swing	Surface Vertical Rod	Corbin Russwin	ED5470(B) x M107
												ASSA ABLOY ACCENTRA	7170(F)WS
8	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	48	96	24	66	1584	Out Swing	Concealed Two Point Lock	Sargent	WS-12-7000, HC-12-7000
9	Imperial, Versadoor ^{a,b}	16	60	60	48	96	24	66	1584	Out Swing or In Swing	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000
												Sargent	7800, 8200, R8200
												ASSA ABLOY ACCENTRA	8800
a - Glazing may be Glasslam Safety Plus II; b - Glazing may be 1/4" thick polycarbonate, Width limited to 22", Height limited to 33-1/2"													
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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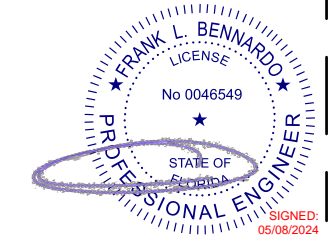
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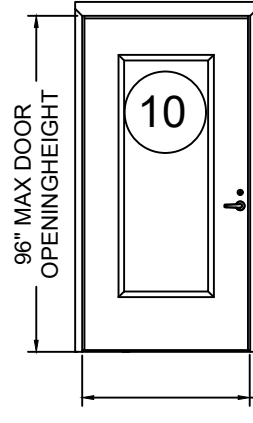
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PE# 0046549 CA# 9885



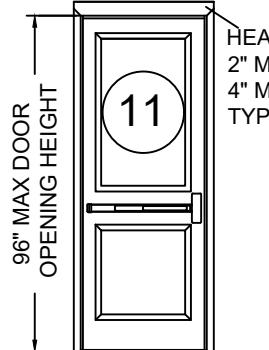
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MORTISE LOCK LATCH BOLT & DEAD BOLT



48" MAX DOOR OPENING WIDTH

CONCEALED VERTICAL ROD EXIT DEVICE



36" MAX DOOR OPENING WIDTH

RIM EXIT DEVICE



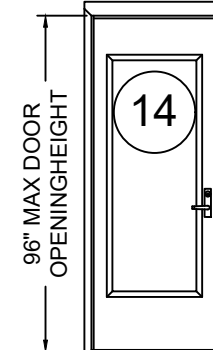
36" MAX DOOR OPENING WIDTH

SURFACE VERTICAL ROD EXIT DEVICE



36" MAX DOOR OPENING WIDTH

CONCEALED TWO POINT LOCK



36" MAX DOOR OPENING WIDTH

ASSEMBLY 10

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

ASSEMBLY 11

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

ASSEMBLY 12

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

ASSEMBLY 13

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

ASSEMBLY 14

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
10	Medallion, Legion, Omega, Regent, Ultra ^{a,b}	16	60	60	48	96	24	66	1584	Out Swing	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ML2000 7800, 8200, R8200 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
12	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	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
13	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	36	96	24	66	1584	Out Swing	Surface Vertical Rod	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5470(B) x M107 HC8700, 12-HC8700 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 Corbin Russwin	WS-12-7000, HC-12-7000 MP9800 (A/B) x M107
			a - Glazing may be Glasslam Safety Plus II; b - Glazing may be 1/4" thick polycarbonate, Width limited to 22", Height limited to 33-1/2"										
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	Continuous	Markar FM100, FM200, FM300, FM3500, FM100, FM1111, or HG305; Pemko CFMSLF-HD continuous hinges or any FBC approved continuous hinge may be used											
	Pivots	Rixson 195 Pivot set with M19 intermediate pivots may be used											
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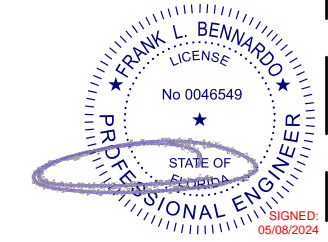
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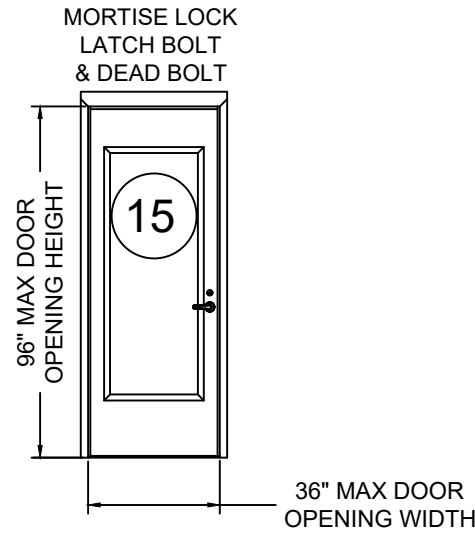
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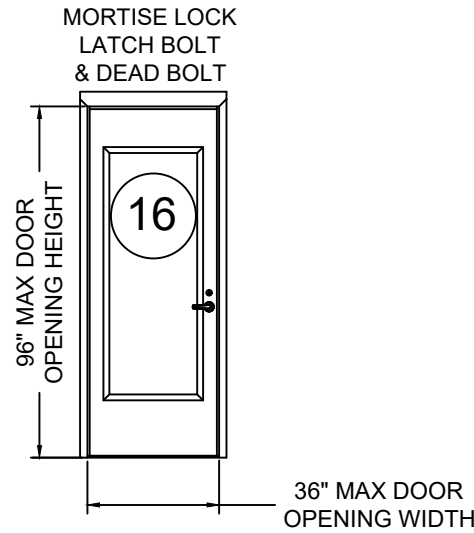
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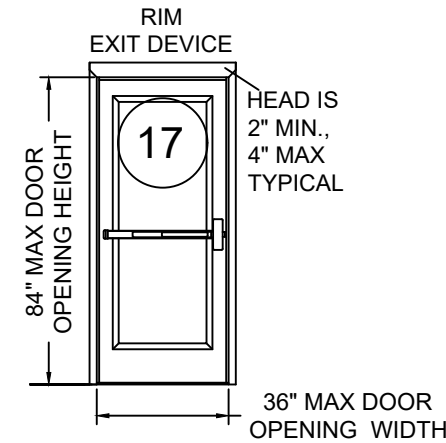
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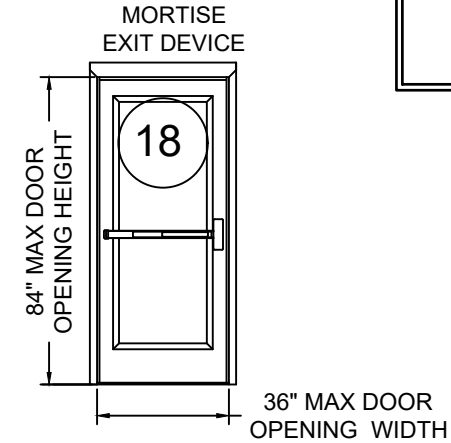
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Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-60PSF	N/A



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



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



ASSEMBLY 18	
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
15	Imperial, Versadoor ^{a,b}	16	60	60	36	96	24	66	1584	Out Swing or In Swing*	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000
												Sargent	7800, 8200, R8200
												ASSA ABLOY ACCENTRA	8800, S8800 x SYM
16	Medallion, Legion, Omega, Regent, Ultra ^{a,b}	16	60	60	36	96	24	66	1584	Out Swing	Mortise Lock Latch Bolt & Dead Bolt	Corbin Russwin	ML2000
												Sargent	7800, 8200, R8200
												ASSA ABLOY ACCENTRA	8800
17	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	18	60	60	36	84	24	66	1584	Out Swing	Rim Exit Device	Corbin Russwin	ED5200S(A) x M107
												Sargent	HC8800, 12-HC8800
												Sargent	WS-8800, WS-12-8800
												VingCard Elsafe A/S	VC3000
												ASSA ABLOY ACCENTRA	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 Glaslam Safety Plus II; b - Glazing may be 1/4" thick polycarbonate, Width limited to 22", Height limited to 33-1/2"										
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.

** 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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MILAN, TN 38358

CecoDoor
ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16355.4)

REMARKS	DRWN	CHKD	DATE
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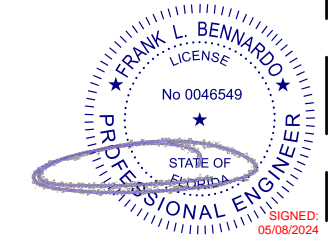
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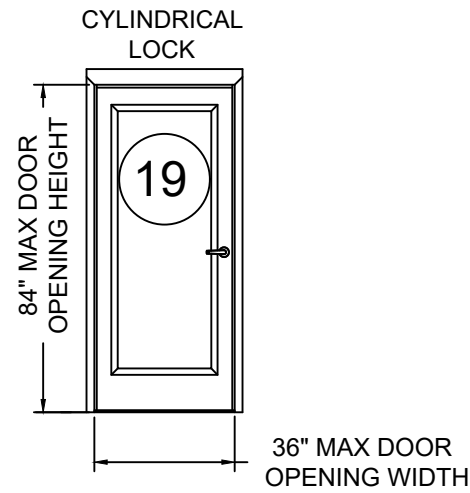
CECO DOOR GLAZED SINGLE DOORS

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

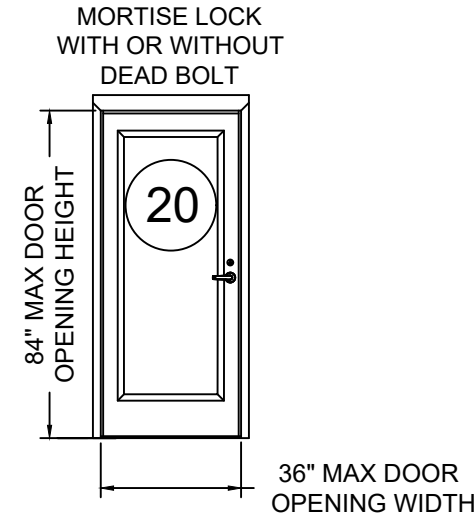
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PE# 0046549 CA# 9885



MAY 8, 2024



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



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

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 FLORIDA STATEWIDE APPROVAL (FSA FL#16355.4)

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
19	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	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,
20	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	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
Hinges **			a - Glazing may be Glaslam Safety Plus II; b - Glazing may be 1/4" thick polycarbonate, Width limited to 22", Height limited to 33-1/2"										
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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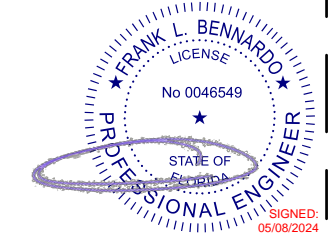
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CECO DOOR GLAZED SINGLE DOORS

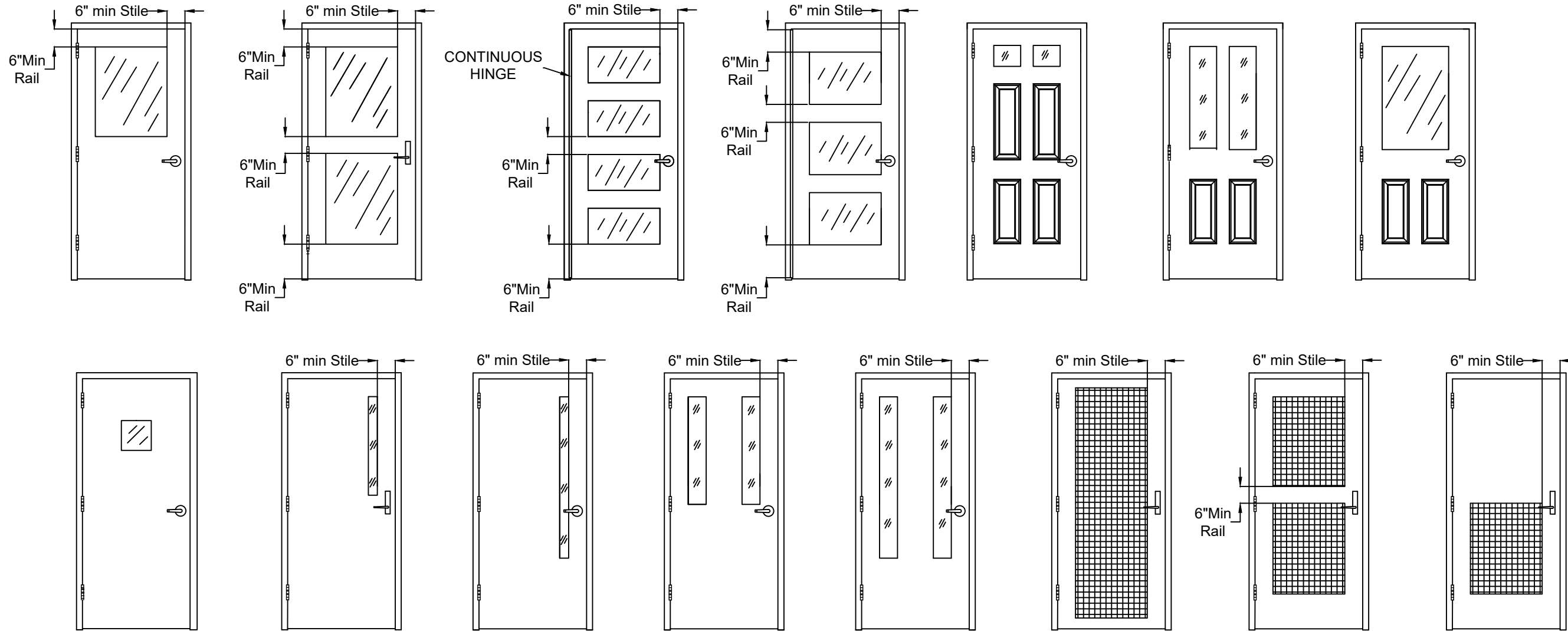
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PE# 0046549 CA# 9885



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OPTIONAL ELEVATIONS



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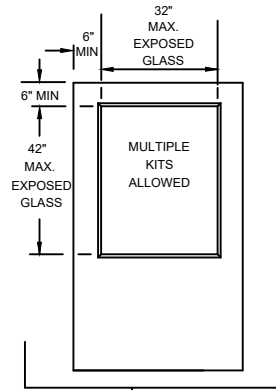
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CECO DOOR GLAZED SINGLE DOORS

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GLAZING OPTION
GLASSLAM SAFETY PLUS II
LAMINATED GLASS

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

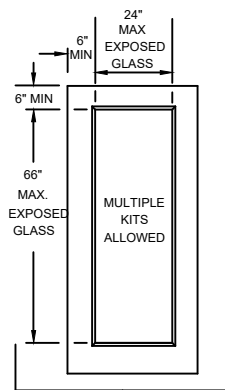


MAX DESIGN PRESSURE +/- 70 PSF

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

GLAZING OPTION
GLASSLAM SAFETY PLUS II
LAMINATED GLASS

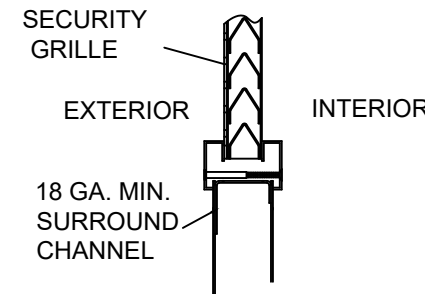
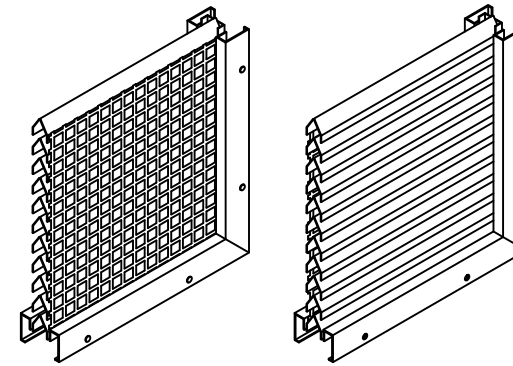


MAX DESIGN PRESSURE +/- 60 PSF

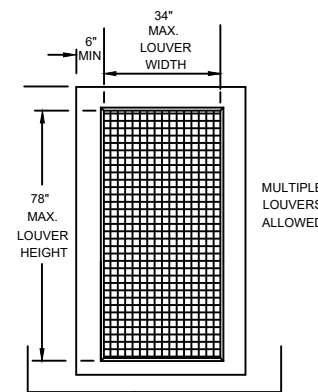
GLASSLAM SAFETY PLUS II

- 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

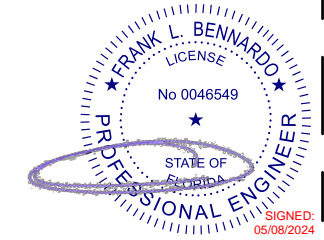


MAX DESIGN PRESSURE +/- 70 PSF

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 .

FRANK BENNARDO, PE
 PE# 0046549 CA# 9885



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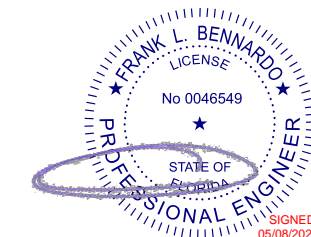
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CECO DOOR GLAZED SINGLE DOORS

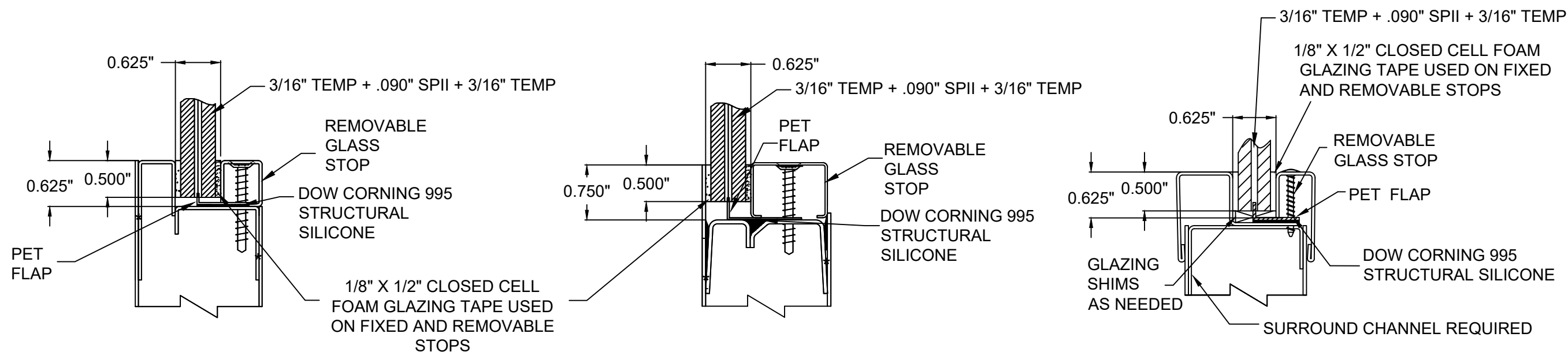
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FRANK BENNARDO, PE
PE# 0046549 CA# 9885



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FL# 16355.4



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.

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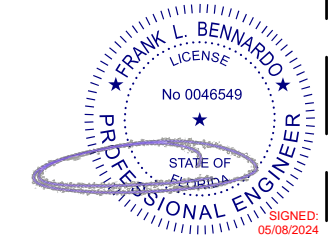
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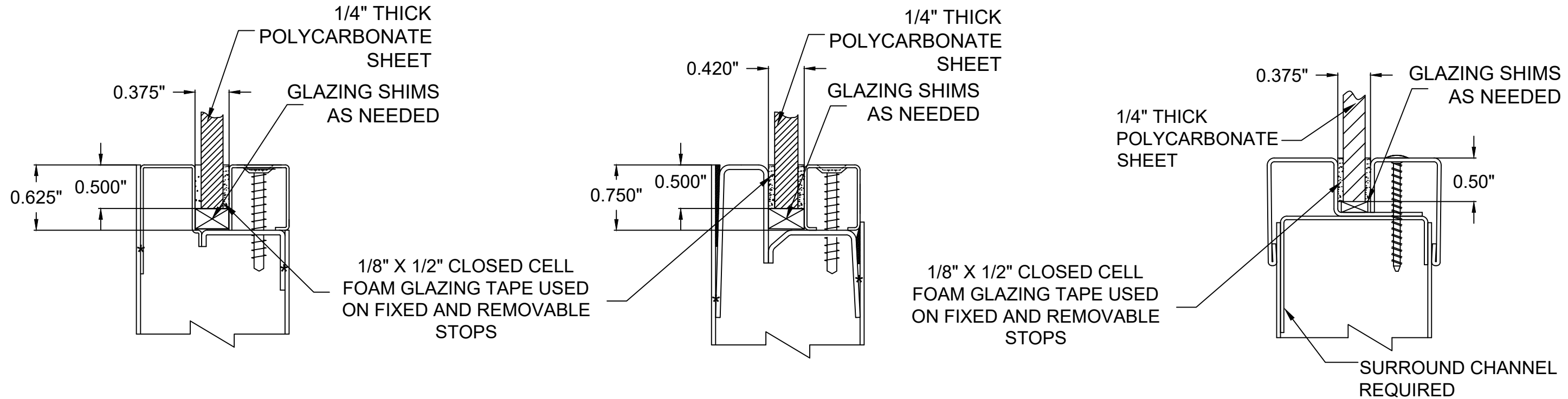
CECO DOOR GLAZED SINGLE DOORS

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GLAZING INSTRUCTIONS

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- 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.

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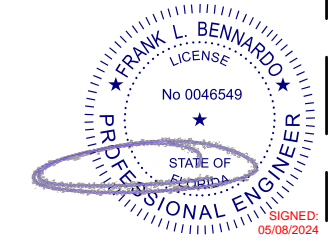
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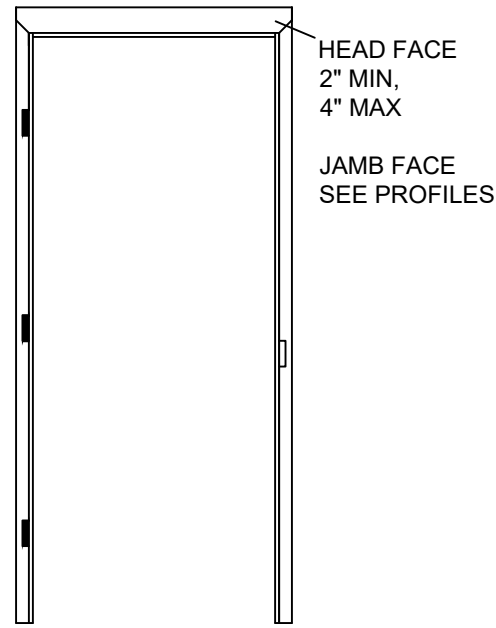
CECO DOOR GLAZED SINGLE DOORS

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FRANK BENNARDO, PE
PE# 0046549 CA# 9885

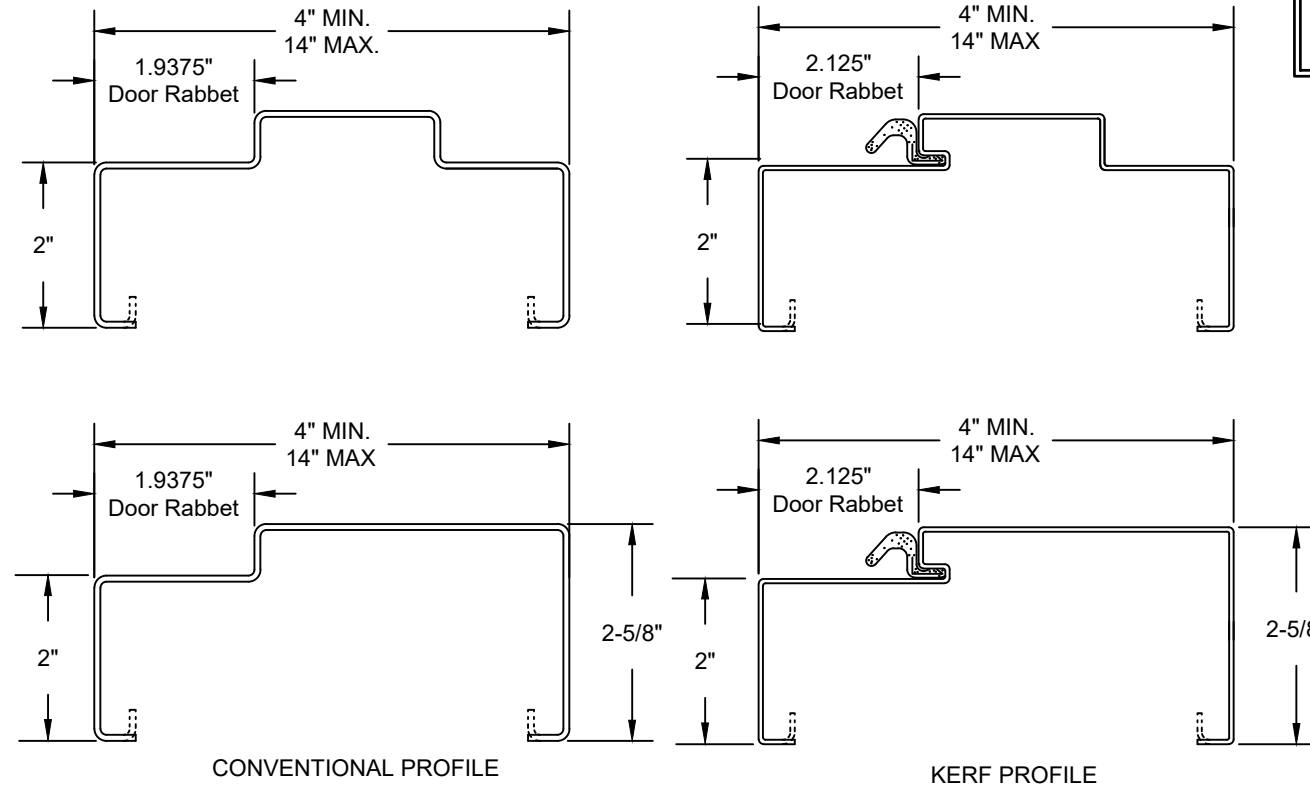


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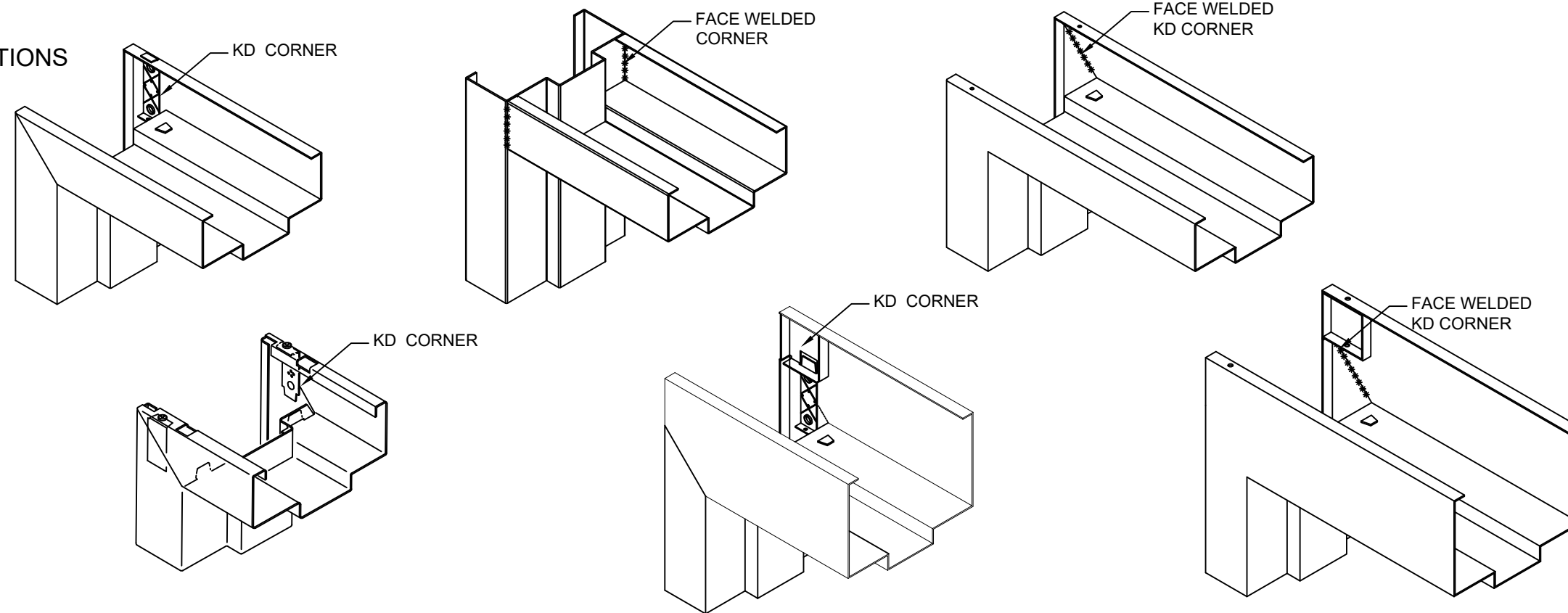


± 70 PSF MAX. DESIGN PRESSURE
4" MIN./14" MAX. DEPTH
KD 16 GA. MIN.
WELDED 16 GA MIN., 12 GA. MAX.
FOUR SIDED DOOR FRAME WITH WELDED CORNERS ALSO PERMITTED

FRAME PROFILES



FRAME CONSTRUCTION OPTIONS



FL# 16355.4

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

CecoDoor
ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
GLAZED SINGLE DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16355.4)

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CECO DOOR GLAZED SINGLE DOORS

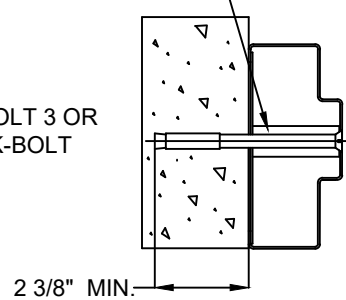
PRODUCTS ILLUSTRATED IN THIS DOCUMENT ARE QUALIFIED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT IS 9 LB 2 X 4 AT 50 FEET PER SECOND OR 350 FT-LBS. (MISSILE LEVEL D) PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.

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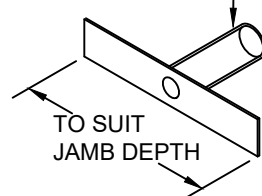
EXISTING MASONRY OR POURED CONCRETE, 3000 psi MIN.
WELDED PIPE SPACER OR EWA ANCHOR WITH 3/8" EXPANSION ANCHOR BOLTS USING 3/8" GRADE 5 BOLT
MINIMUM EDGE DISTANCE = 4.0"
MAXIMUM SHIM THICKNESS = 0.25"

HILTI KWIK BOLT 3 OR POWERS LOK-BOLT

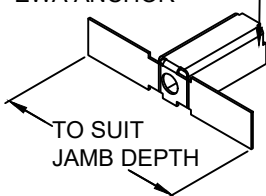


2 3/8" MIN.

16 GA (0.053" MIN) PIPE SPACER ANCHOR



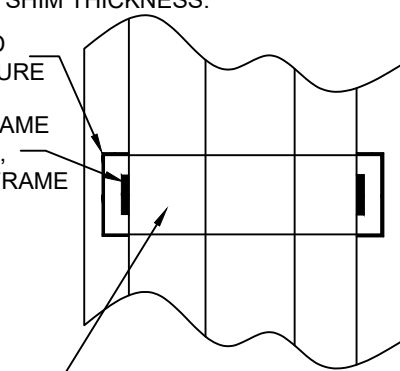
16 GA (0.053" MIN) EWA ANCHOR



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

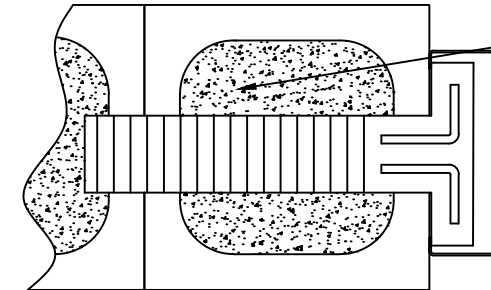
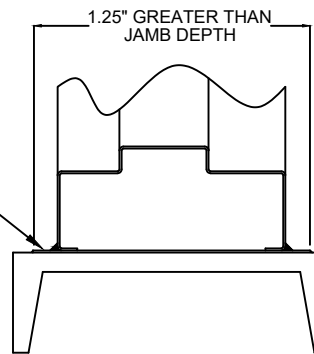
STEEL SHIMS WELDED TO BUILDING STRUCTURE

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



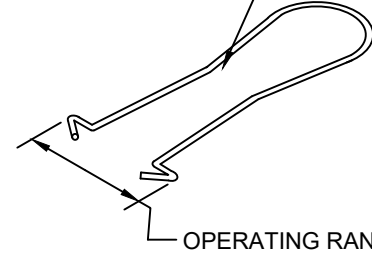
2" X 7" STEEL SHIM PLATE(S), OR TO SUIT FRAME JAMB DEPTH

MAXIMUM SHIM SPACE 1/4"

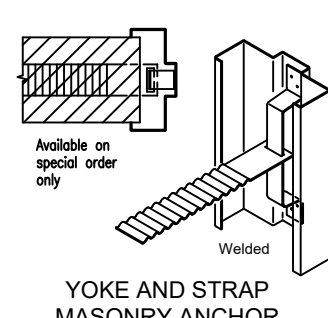
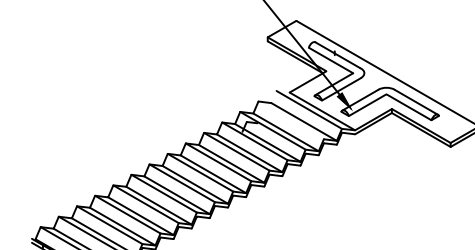


MAXIMUM SHIM THICKNESS 0.25
CMU BLOCK AND THROAT OF FRAME FILLED WITH 3000 PSI MORTAR

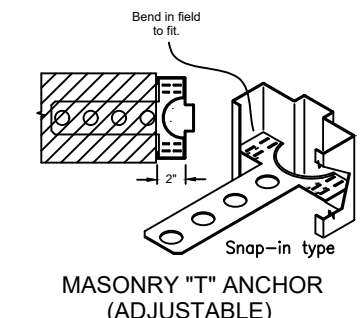
MASONRY WIRE ANCHOR 0.165" DIA. MIN.



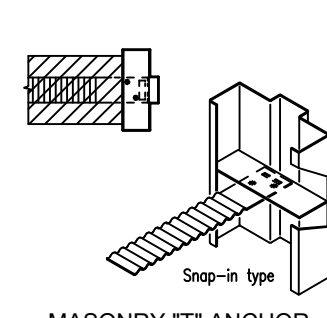
16 GA (0.053" MIN) MASONRY T ANCHOR



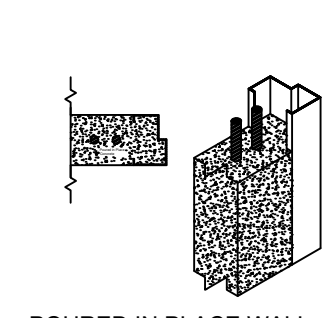
YOKE AND STRAP MASONRY ANCHOR



MASONRY "T" ANCHOR (ADJUSTABLE)



MASONRY "T" ANCHOR



POURED IN PLACE WALL

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	4	19
90"	12	4	19
92"-96"	12	4	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
92"-96"	12	4	24

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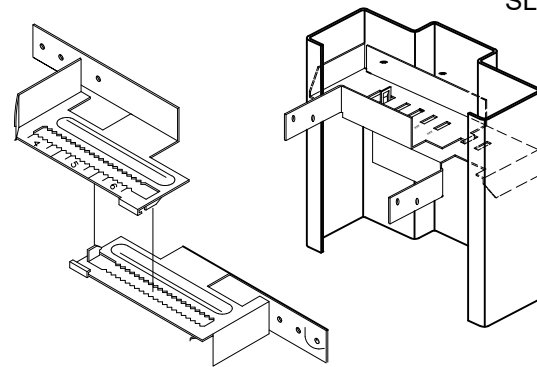
CECO DOOR GLAZED SINGLE DOORS

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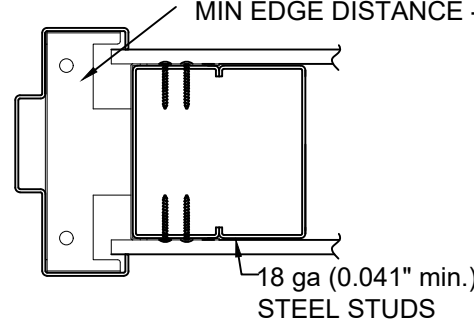
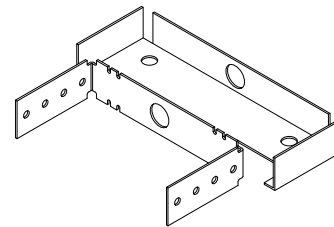
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PE# 0046549 CA# 9885

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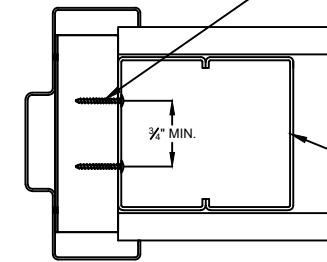
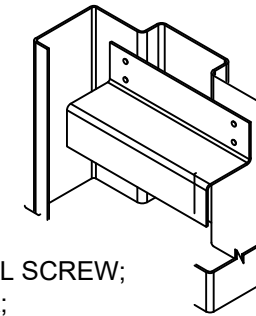
18 ga. (0.041" MIN.)
SLIP-IN STUD ANCHORS



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

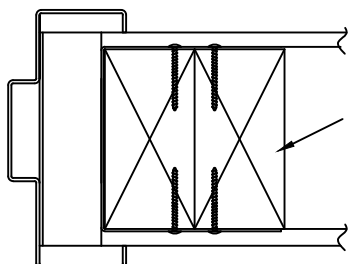
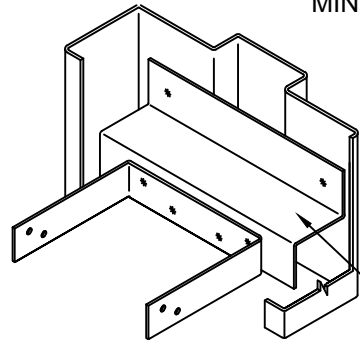


#14 x 1" GRADE 5 SHEET METAL SCREW;
2 SCREWS REQUIRED
PER ANCHOR LOCATION;



18 ga (0.041" min.)
STEEL STUDS

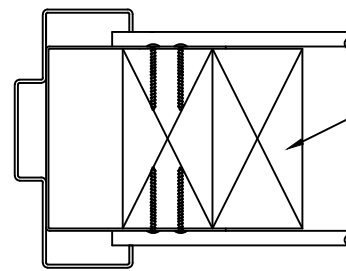
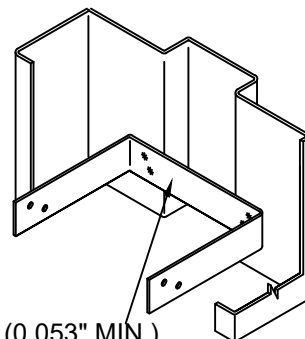
WELDED WOOD STUD ANCHOR
WITH #8 X 1" GRADE 5 SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EMBEDMENT = 1" MIN EDGE DISTANCE = 0.524"



WOOD STUD

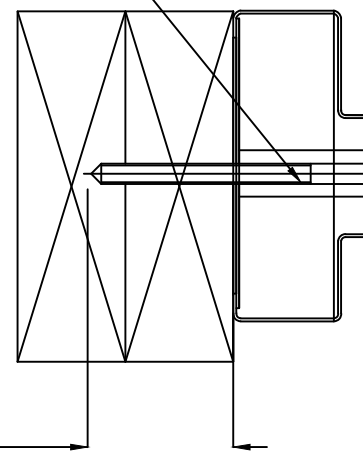
16 ga (0.053" MIN.)
WOOD STUD ANCHOR

16 ga (0.053" MIN.)
WOOD STUD ANCHOR



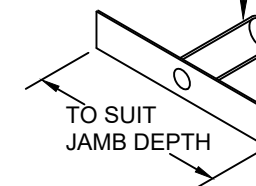
WOOD STUD

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

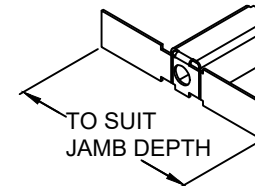


3.0" MIN

16 GA (0.053" MIN)
PIPE SPACER ANCHOR

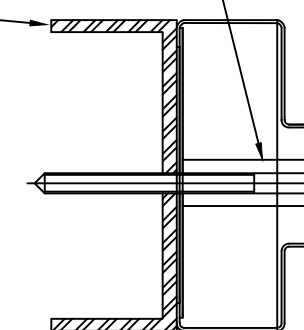


16 GA (0.053" MIN)
EWA ANCHOR



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 Jamb			
Up to an including 70 psf			
Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 88"	6	5	19
90"	6	5	19
92"-96"	6	6	19

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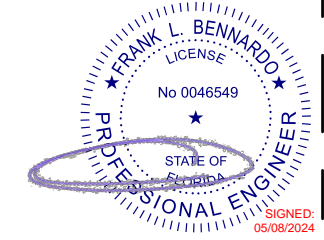
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CECO DOOR GLAZED SINGLE DOORS

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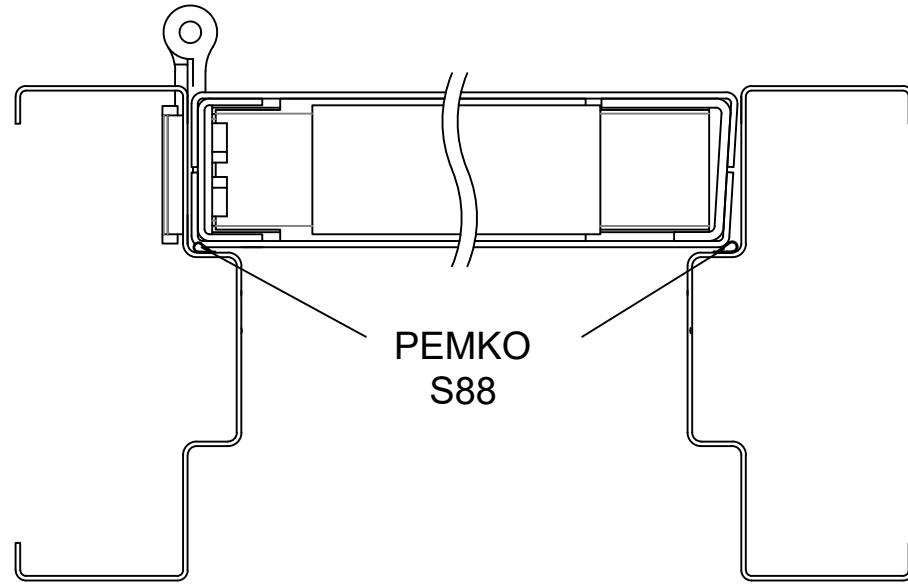
PEMKO WEATHERSTRIP USED ON CECO DOORS AND FRAMES WHERE WATER INFILTRATION IS NOT REQUIRED.

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PE# 0046549 CA# 9885

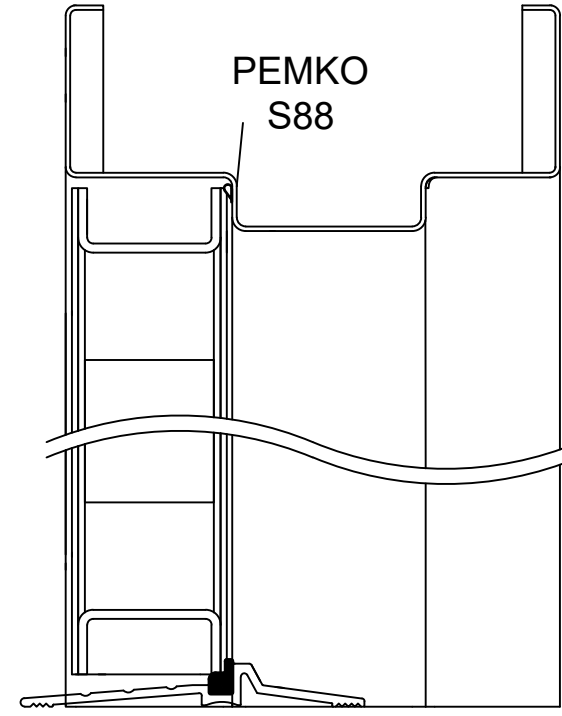


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PEMKO S88



PEMKO S88

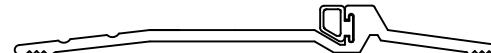
PEMKO 2005



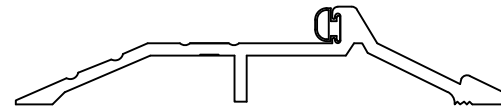
PEMKO S88



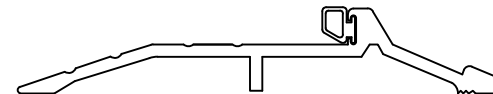
PEMKO 303



PEMKO 2005



PEMKO 181



PEMKO 177

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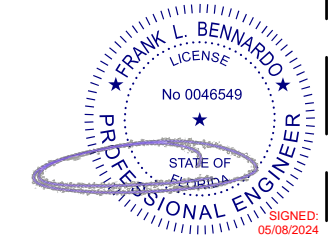
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PEMKO WEATHERSTRIP USED ON CECO DOORS AND FRAMES WHERE WATER INFILTRATION IS REQUIRED.

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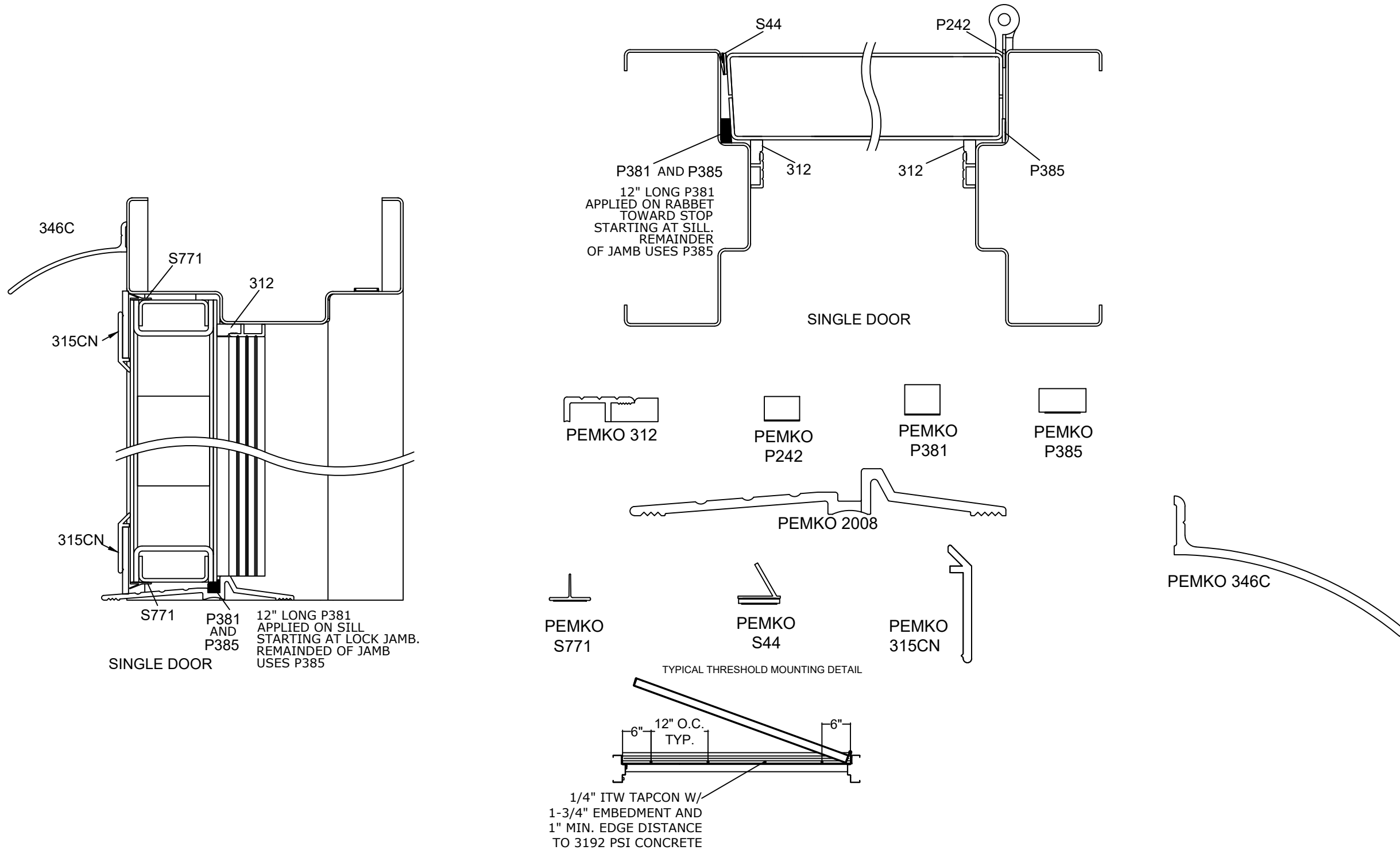
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HARDWARE NOTES

CORBIN RUSSWIN

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

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

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

MAY ALSO USE THE ML20100 AND ML20200 MORTISE LOCKS.

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.

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

BUTT HINGES

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

ADDITIONAL HINGES BEYOND THOSE REQUIRED MAY BE REQUIRED.

ASSA ABLOY ACCENTRA

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

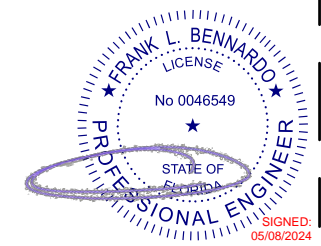
SECURITRON

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 10X / 7 /10, OR ASSA ABLOY ACENTRA 5300LN / 5400CK / 5400LN CYLINDRICAL LOCKS.

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

*INDICATED A FIRE RATED EXIT HARDWARE MAY BE USED ON A SINGLE DOOR

FRANK BENNARDO, PE
 PE# 0046549 CA# 9885



MAY 8, 2024

FL# 16355.4



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 MILAN, TN 38358



COMMERCIAL STEEL EXTERIOR DOORS
 GLAZED SINGLE DOORS (LMI) - FBC (2023)
 FLORIDA STATEWIDE APPROVAL (FSA FL#16355.4)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (12-CUI-03g-01)	KL	FLB	06/28/13
FBC UPDATE	RWN	CSL	06/12/15
2017 FBC UPDATE	JEM	FLB	10/03/17
2020 FBC UPDATE	TAE	FLB	12/17/20
2023 FBC (PREV 20-34881)	AMZ	RS	10/18/23

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SCALE: NTS UNLESS NOTED

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