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CECO DOOR PRODUCTS

DIVISION OF ASSA ABLOY DOOR GROUP, INC.

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

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

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INSTRUCTIONS FOR USING THIS APPROVAL

STEP 1: USE THE DOOR ELEVATIONS PROVIDED ON 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 BOTH ACTIVE AND IN ACTIVE PANELS.**

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

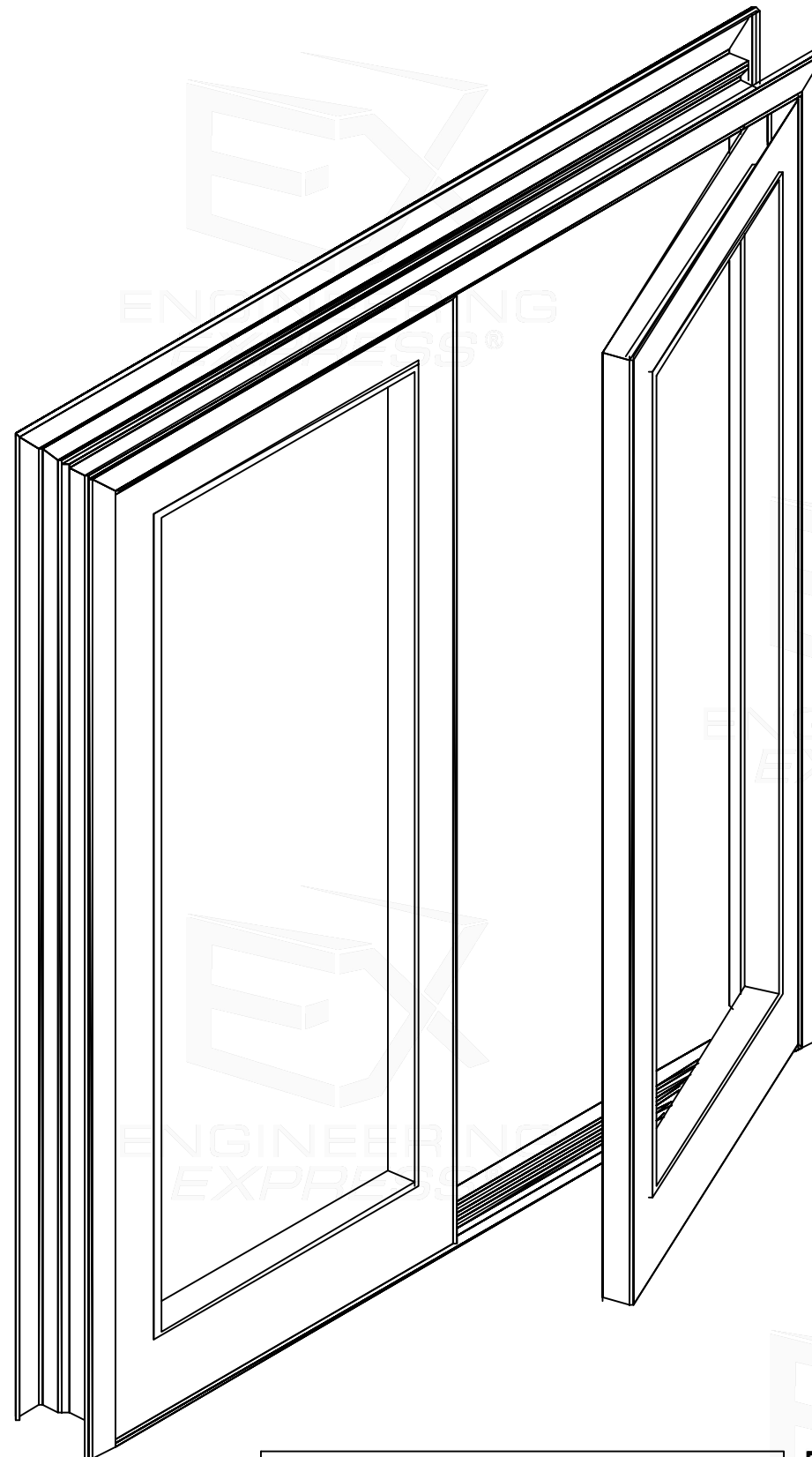
STEP 4: USE PAGE 9 TO DETERMINE YOUR FRAMING PROFILES AND FRAMING CONSTRUCTION OPTIONS

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
2-4	ASSEMBLY OPTIONS
5	OPTIONAL ASSEMBLY OPTIONS
6-8	GLAZING DETAILS
9	DOOR FRAME DETAILS
10-11	DOOR FRAME ANCHORING INFORMATION
12-13	DOOR FRAME WEATHER STRIPPING INFORMATION
14	MANUFACTURERS AND ENGINEERING NOTES
14	TOTAL



FRANK BENNARDO, PE
 PE# 0046549 CA# 9885

FL# 16355.3



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 COMMERCIAL STEEL EXTERIOR DOORS
 GLAZED PAIRS OF DOORS (LMI) - FBC (2023)
 FLORIDA STATEWIDE APPROVAL (FSA FL#16355.3)

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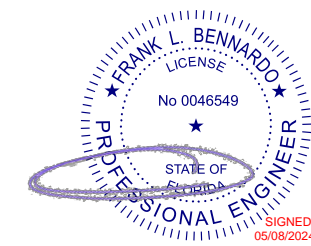


ASSA ABLOY, the global leader in door opening solutions.

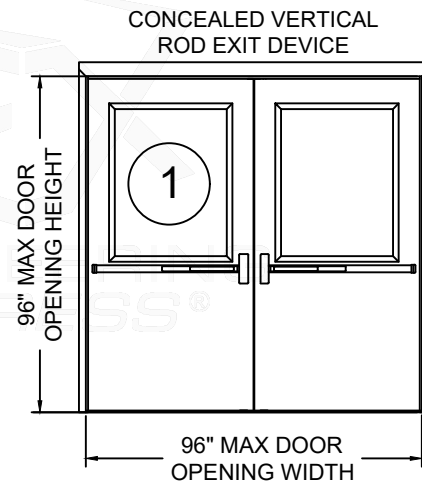
CECO DOOR GLAZED PAIRS OF DOORS

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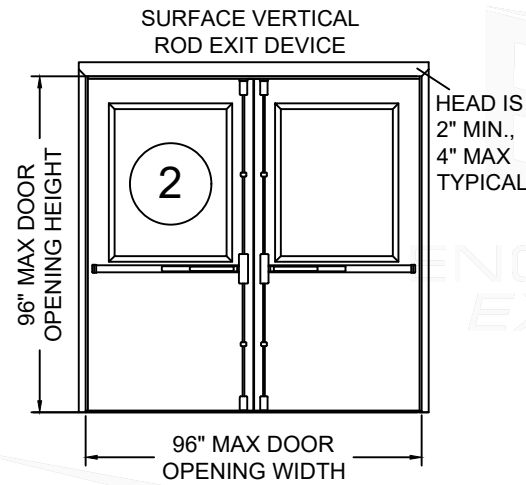
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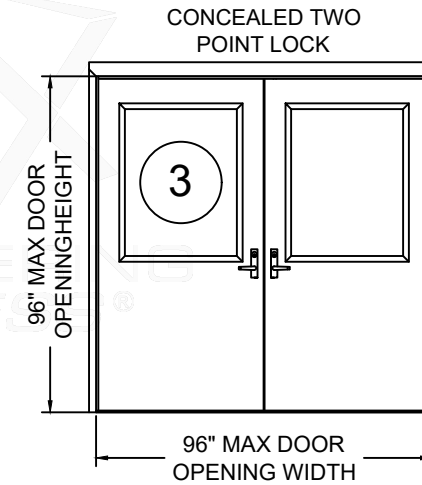
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ASSEMBLY 1	
Design Pressure Where Water Infiltration Is NOT Needed	Design Pressure Where Water Infiltration IS Needed
+/-70 PSF	+/-60 PSF



ASSEMBLY 2	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Required
+/-70 PSF	+/-60 PSF



ASSEMBLY 3	
Design Pressure Where Water Infiltration Is NOT Required	Design Pressure Where Water Infiltration IS Needed
+/-70 PSF	+/-60 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 Active			Latching Hardware Description In-Active		
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model	Type	Brand	Model
			1	Trio, Trio-E ^a	18	70	70	96			96	32	42	1344	Out Swing	Concealed Vertical Rod
2	Trio, Trio-E ^a	18	70	70	96	96	32	42	1344	Out Swing	Surface Vertical Rod	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5470(B) x M107 HC4-8700, 12-HC4-8700 7170(F)WS	Surface Vertical Rod	Corbin Russwin Sargent ASSA ABLOY ACCENTRA	ED5470(B) x M107 HC4-8700, 12-HC4-8700 7170(F)WS
3	Trio, Trio-E ^a	18	70	70	96	96	32	42	1344	Out Swing	Concealed Two Point Lock	Sargent Corbin Russwin	WS-12-7000, HC-12-7000 MP9800 (A/B) x M107	Concealed Two Point Lock	Sargent Corbin Russwin	WS-12-7000, HC-12-7000 MP9800 (A/B) x M107
Hinges**			Butt: McKinney 4-1/2" x 4-1/2" 0.134" thick minimum steel hinges or any FBC approved butt hinges may be used. Any SDI member hinge locations may be used. Continuous: Markar FM100, FM200, FM300, FM3500, FM100, FM1111, or HG305; Pemko CFMSLF-HD continuous hinges or any FBC approved continuous hinge may be used. Pivots: Rixson 195 Pivot set with M19 intermediate pivots may be used. Any FBC approved pivot may be used.													
Auxiliary Hardware			1" diameter 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 maybe 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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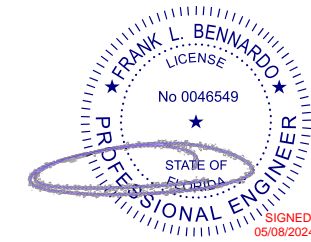
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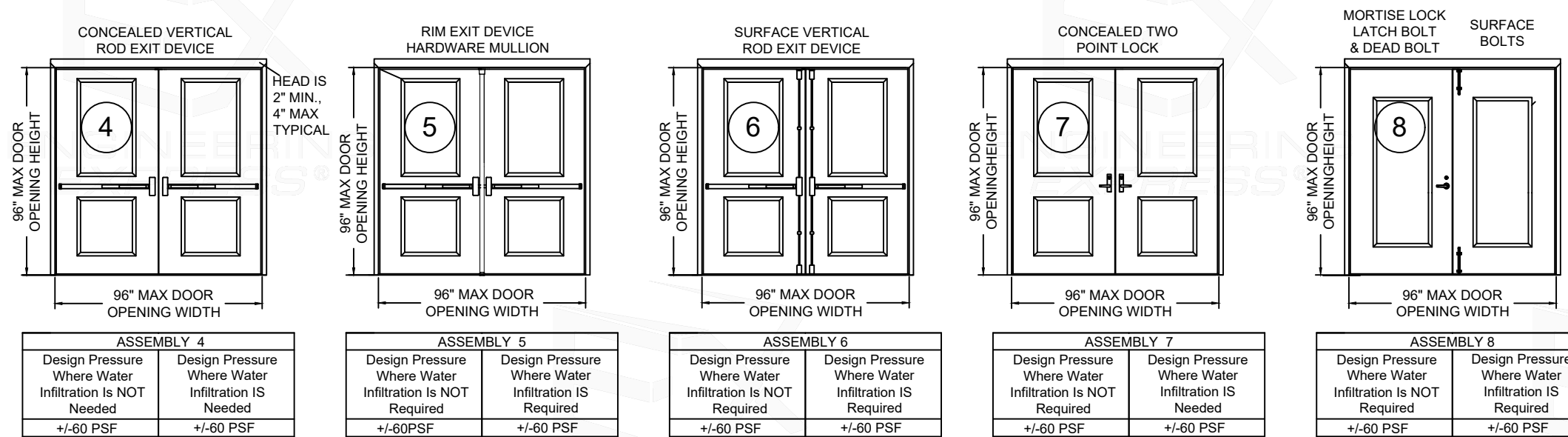
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PE# 0046549 CA# 9885



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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 Active			Latching Hardware Description In-Active		
			Positive	Negative	Width	Height	Width	Height			Type	Brand	Model	Type	Brand	Model
4	Medallion, Legion, Omega, Regent, Ultra ^{a,b}	16	60	60	96	96	24	66	1584	Out Swing	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-MD-12-8600, WS-MD-8600, WS-MD-12-8600	Concealed Vertical Rod	Sargent	HC-MD-8600, HC-MD-12-8600, WS-MD-8600, WS-MD-12-8600
5	Medallion, Legion, Omega, Regent, Ultra, Trio, Trio-E ^{a,b}	16 Trio, Trio-E -18	60	60	96	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	Rim Exit Device	Corbin Russwin ED5200S(A) x M107 Sargent HC8800, 12-HC8800 ASSA ABLOY ACCENTRA 7150(F)WS/7250M(F)WS		
6	Medallion, Legion, Omega, Regent, Ultra ^{a,b}	16	60	60	96	96	24	66	1584	Out Swing	Surface Vertical Rod	Corbin Russwin ED5470(B) x M107 Sargent HC4-8700, 12-HC4-8700 ASSA ABLOY ACCENTRA 7170(F)WS	Surface Vertical Rod	Corbin Russwin ED5470(B) x M107 Sargent HC4-8700, 12-HC4-8700 ASSA ABLOY ACCENTRA 7170(F)WS		
7	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	96	96	24	66	1584	Out Swing	Concealed Two Point Lock	Sargent WS-12-7000, HC-12-7000 Corbin Russwin MP9800 (A/B) x M107	Concealed Two Point Lock	Sargent WS-12-7000, HC-12-7000 Corbin Russwin MP9800 (A/B) x M107		
8	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	96	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	Surface Bolt	Corbin Russwin 988CR Sargent 988 ASSA ABLOY ACCENTRA 988Y		
Hinges**			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" Butt McKinney 4-1/2" x 4-1/2" 0.134" thick minimum steel hinges or any FBC approved butt hinges may be used. Any SDI member hinge locations may be used. Continuous Markar FM100, FM200, FM300, FM3500, FM100, FM1111, or HG305; Pemko CFMSLF-HD continuous hinges or any FBC approved continuous hinge may be used. Pivots Rixson 195 Pivot set with M19 intermediate pivots may be used.													
Auxiliary Hardware			1" diameter and smaller preparations for door position switches, Door position switches that fit in a cutout measuring 1.25" x 4.875"; Securitron EPT, SEPT, and CEPT may be used. Maglocks may be used in addition to the hardware listed above. Viewers with 1" and smaller hole preparation may be used.													

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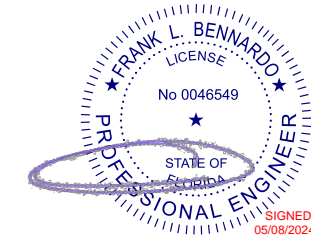
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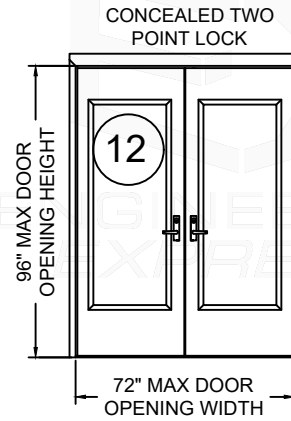
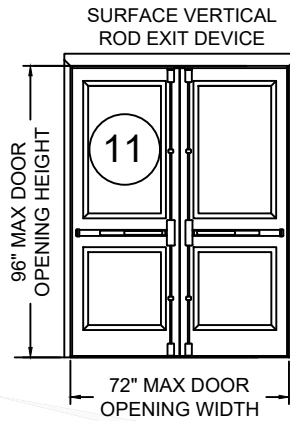
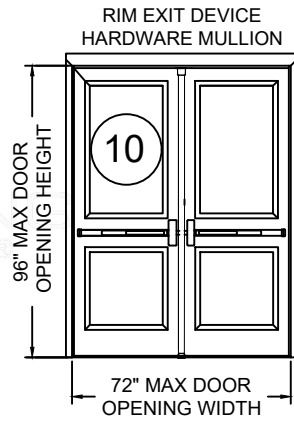
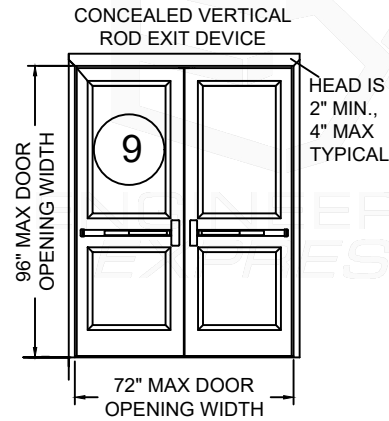
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PE# 0046549 CA# 9885



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

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

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

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

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

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12	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	72	96	24	66	1584	Out Swing	Concealed Two Point Lock	Sargent WS-12-7000, HC-12-7000 Corbin Russwin MP9800 (A/B) x M107	Concealed Two Point Lock	Sargent WS-12-7000, HC-12-7000 Corbin Russwin MP9800 (A/B) x M107		
13	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	72	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	Surface Bolt	Corbin Russwin 988CR Sargent 988 ASSA ABLOY ACCENTRA 988Y		
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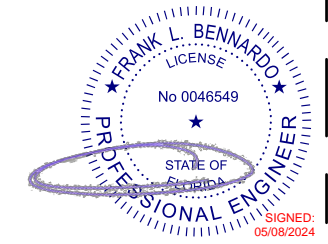
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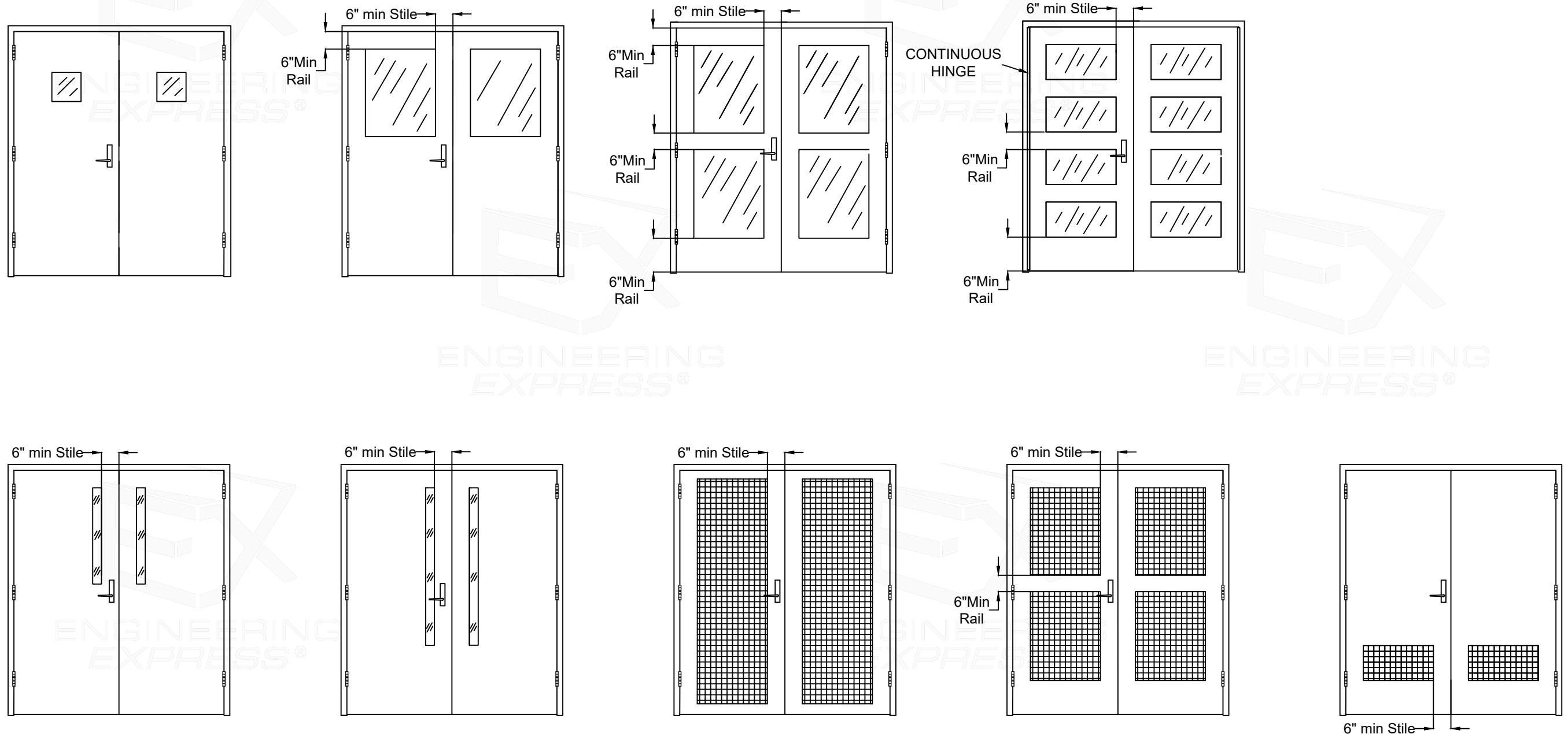
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OPTIONAL ELEVATIONS



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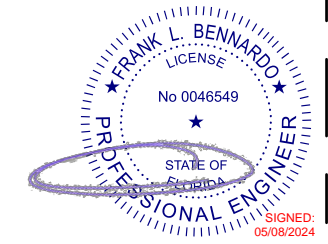
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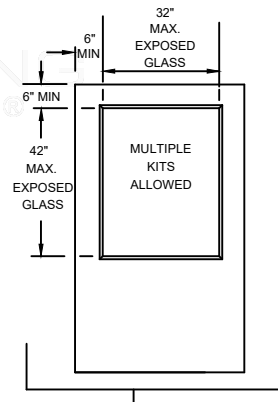
PRODUCTS ILLUSTRATED IN THIS DOCUMENT ARE QUALIFIED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT IS 9 LB 2 X 4 AT 50 FEET PER SECOND OR 350 FT-LBS. (MISSILE LEVEL D) PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.

FRANK BENNARDO, PE
 PE# 0046549 CA# 9885



MAY 8, 2024

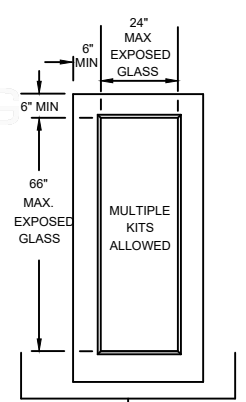
GLAZING OPTION
 GLASSLAM SAFETY PLUS II
 LAMINATED GLASS
 OR
 1/4" THICK MAKROLON POLYCARBONATE
 SHEET BY BAYER MATERIAL SCIENCE, LLC



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.

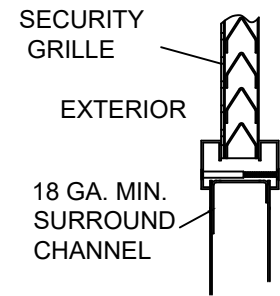
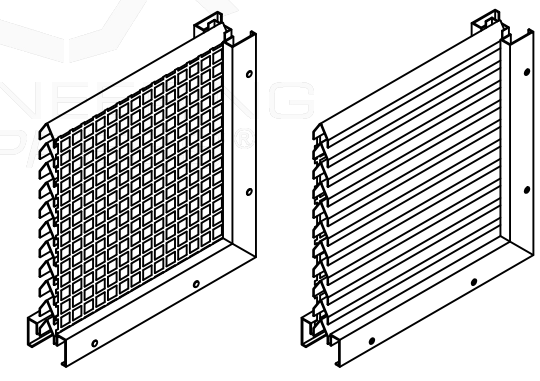
GLAZING OPTION
 GLASSLAM SAFETY PLUS II
 LAMINATED GLASS



MAX DESIGN PRESSURE +/- 60 PSF

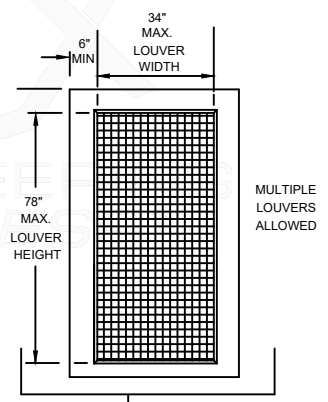
- GLASSLAM SAFETY PLUS II**
- 1.) DESIGN PRESSURE 60 PSF
 - 2.) MAXIMUM GLASS SIZE 24" X 66"
 - 3.) MAXIMUM GLASS AREA PER LEAF IS 1584 SQ. IN.
 - 4.) MULTIPLE LIGHTS ALLOWED.

ROCKWOOD V-WS LOUVER



SECURITY GRILLE
 EXTERIOR INTERIOR
 18 GA. MIN. SURROUND CHANNEL

GLAZING OPTION
 ROCKWOOD LV-WS LOUVER



MAX DESIGN PRESSURE +/- 70 PSF

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

FL# 16355.3

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 9159 TELECOM DRIVE
 MILAN, TN 38358
ASSA ABLOY
 COMMERCIAL STEEL EXTERIOR DOORS
 GLAZED PAIRS OF DOORS (LMI) - FBC (2023)
 FLORIDA STATEWIDE APPROVAL (FSA FL#16355.3)

REMARKS	DRWN	CHKD	DATE
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SCALE: NTS UNLESS NOTED

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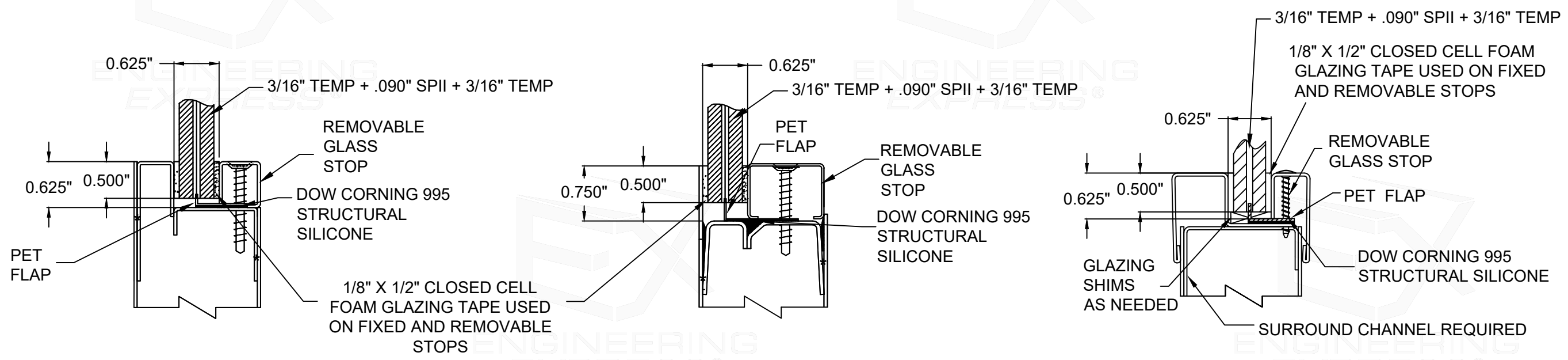
CECO DOOR GLAZED PAIRS OF DOORS

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FRANK BENNARDO, PE
 PE# 0046549 CA# 9885

MAY 8, 2024

FL# 16355.3



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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CecoDoor
ASSA ABLOY

COMMERCIAL STEEL EXTERIOR DOORS
 GLAZED PAIRS OF DOORS (LMI) - FBC (2023)
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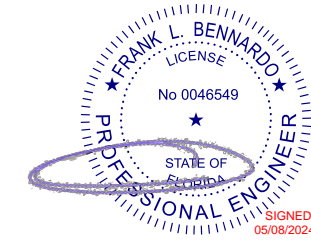
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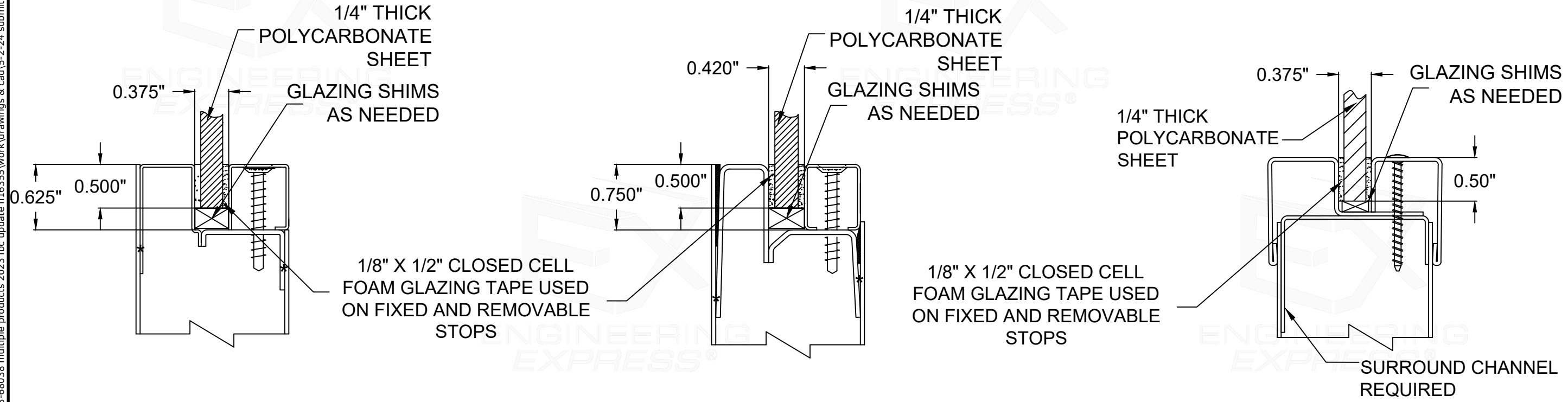
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FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024



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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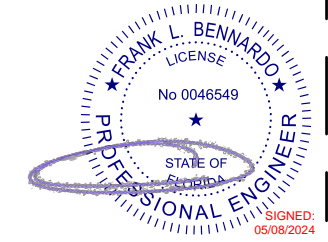
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CECO DOOR GLAZED PAIRS OF DOORS

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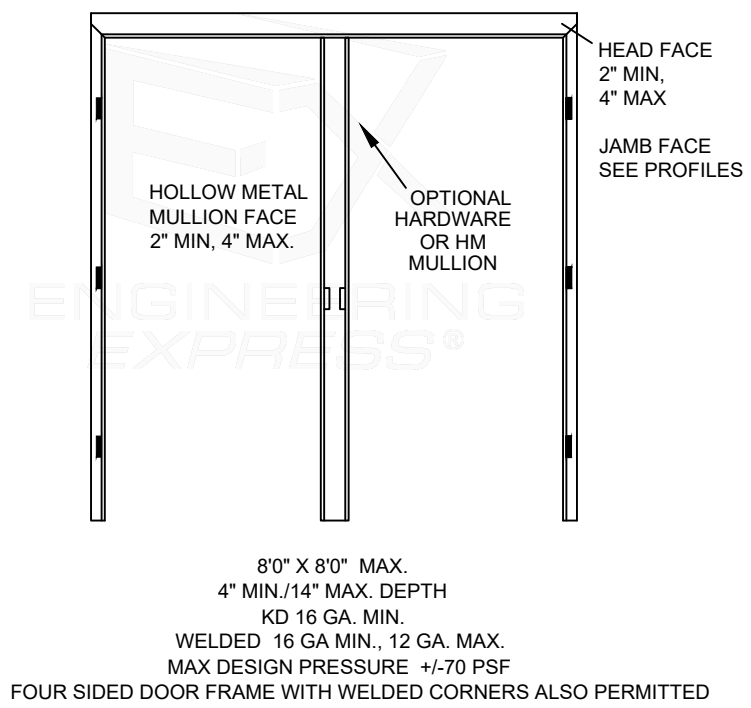
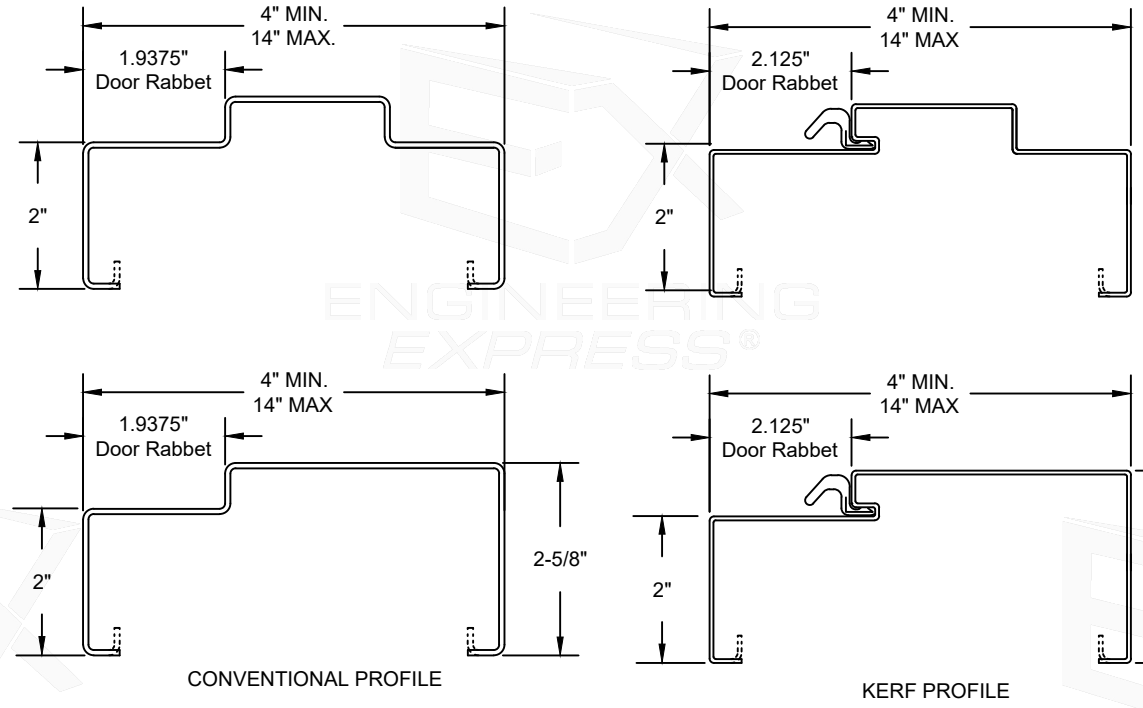
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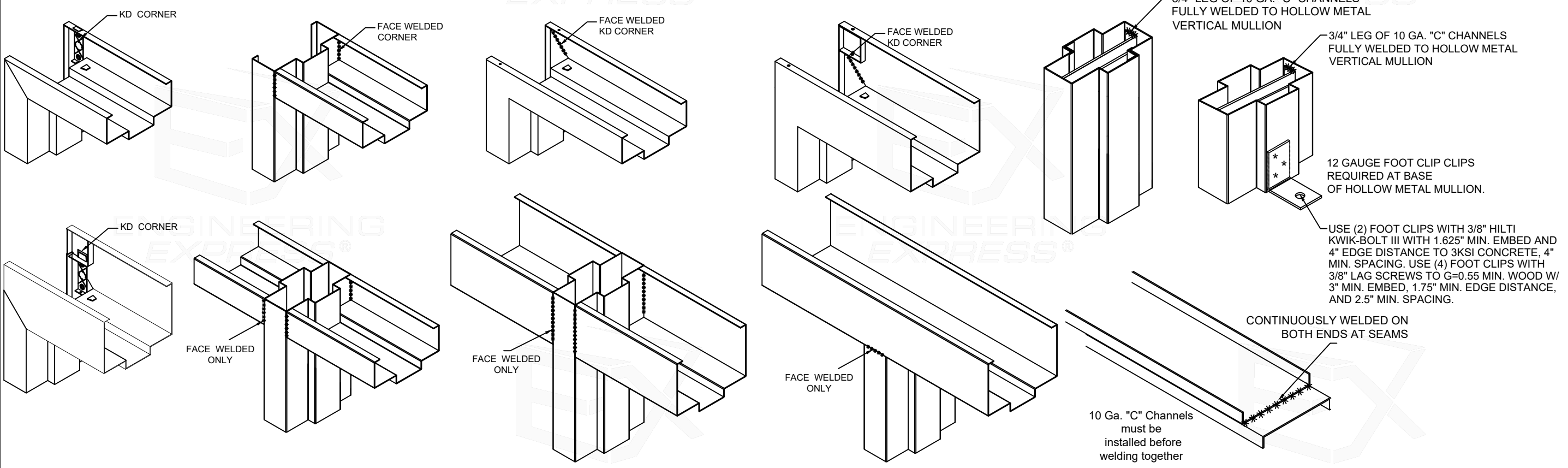
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FRAME PROFILES



FRAME CONSTRUCTION OPTIONS

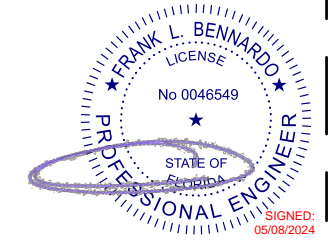


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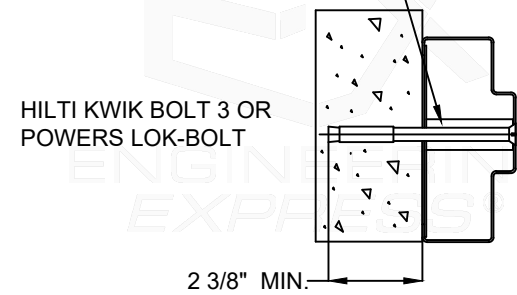
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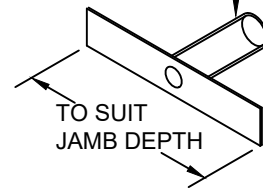
10 OF 14

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



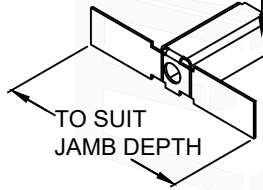
2 3/8" MIN.

16 GA (0.053" MIN)
PIPE SPACER ANCHOR



TO SUIT
JAMB DEPTH

16 GA (0.053" MIN)
EWA ANCHOR

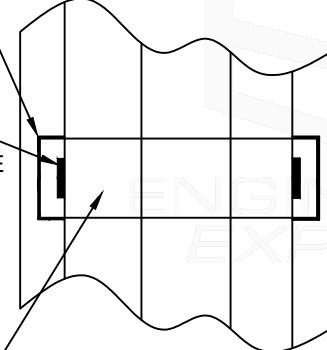


TO SUIT
JAMB DEPTH

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

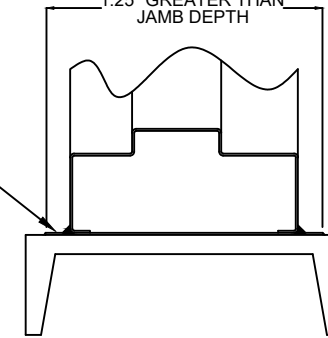
STEEL SHIMS WELDED TO BUILDING STRUCTURE

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



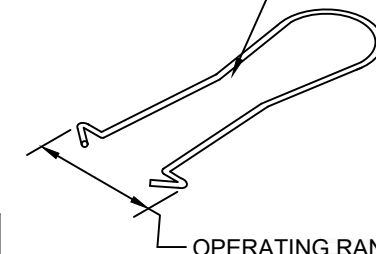
2" X 7" STEEL SHIM PLATE(S), OR TO SUIT FRAME JAMB DEPTH

1.25" GREATER THAN JAMB DEPTH



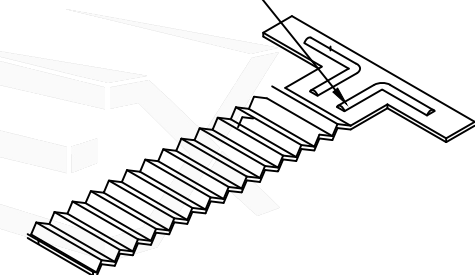
MAXIMUM SHIM SPACE 1/4"

MASONRY WIRE ANCHOR 0.165" DIA. MIN.

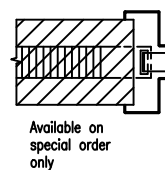


OPERATING RANGE 3" - 8 3/4"

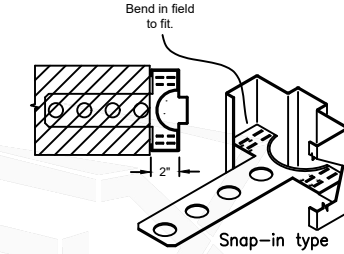
16 GA (0.053" MIN)
MASONRY T ANCHOR



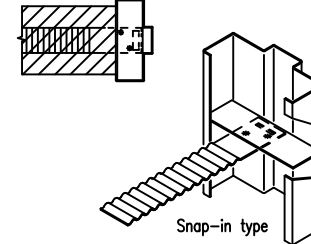
MAXIMUM SHIM THICKNESS 0.25 CMU BLOCK AND THROAT OF FRAME FILLED WITH 3000 PSI MORTAR



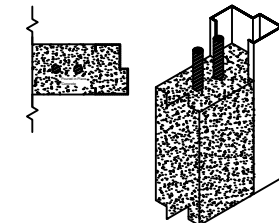
Available on special order only
Welded
YOKE AND STRAP MASONRY ANCHOR



Bend in field to fit.
Snap-in type
MASONRY "T" ANCHOR (ADJUSTABLE)



Snap-in type
MASONRY "T" ANCHOR



POURED IN PLACE WALL

Expansion Shell Anchor Requirements for Jamb of Paired Frames

Up to an including 70 psf

Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 88"	12	4	19
90"	12	4	19
92"-96"	12	5	19

Expansion Shell Anchor Requirements for Heads of Paired Frames

70 psf 2 anchors in the head @ 4 1/2" O.C

Masonry Strap, Masonry T, and Masonry Wire Anchor Requirements for Jamb of Paired Frames

Up to an including 70 psf

Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 88"	12	4	24
90"	12	4	24
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Expansion Shell Anchor Requirements for Heads of Paired Frames

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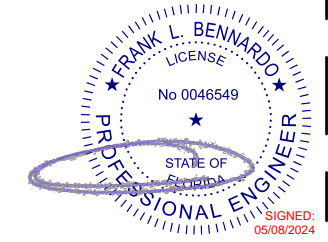


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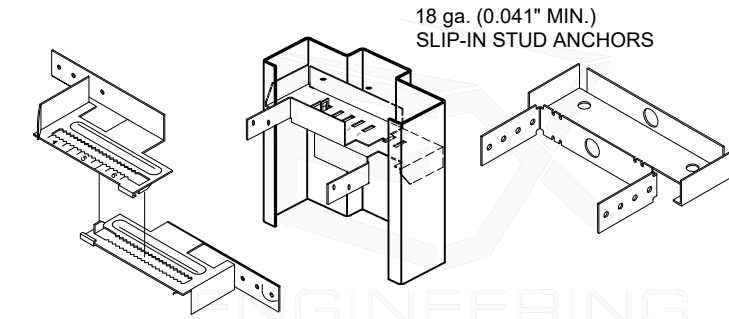
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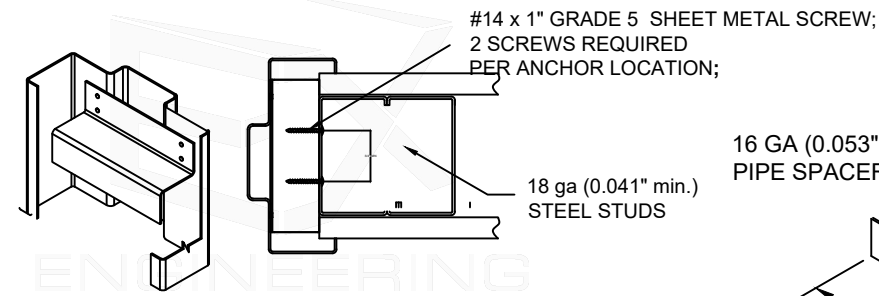
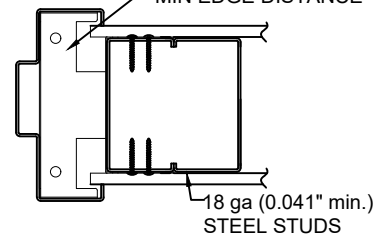
FRANK BENNARDO, PE
PE# 0046549 CA# 9885



MAY 8, 2024



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

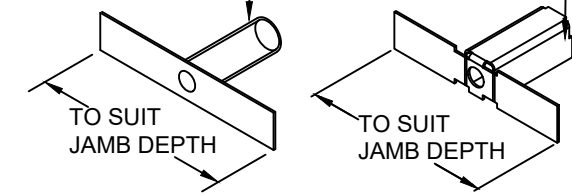


#14 x 1" GRADE 5 SHEET METAL SCREW; 2 SCREWS REQUIRED PER ANCHOR LOCATION;

18 ga. (0.041" min.) STEEL STUDS

16 GA (0.053" MIN) PIPE SPACER ANCHOR

16 GA (0.053" MIN) EWA ANCHOR



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MILAN, TN 38358
COMMERCIAL STEEL EXTERIOR DOORS
GLAZED PAIRS OF DOORS (LMI) - FBC (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16355.3)

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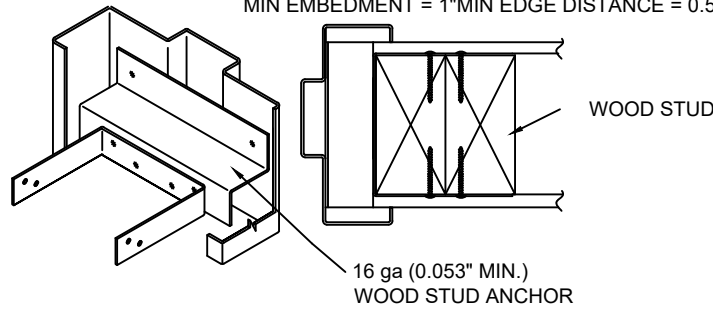
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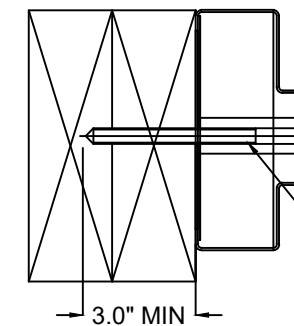
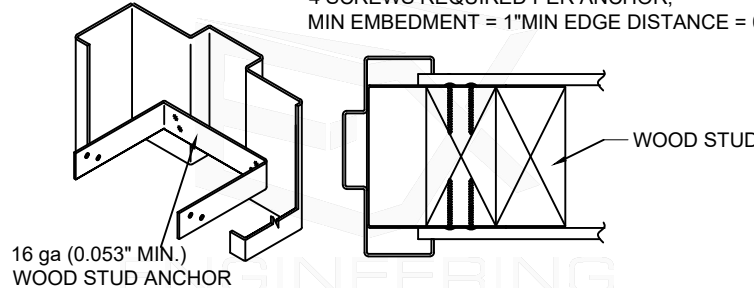
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WELDED WOOD STUD ANCHOR WITH #8 X 1" GRADE 5 SHEET METAL SCREW; 4 SCREWS REQUIRED PER ANCHOR; MIN EMBEDMENT = 1" MIN EDGE DISTANCE = 0.524"



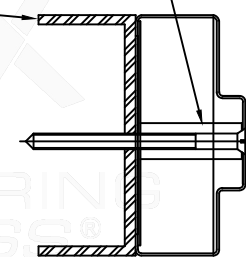
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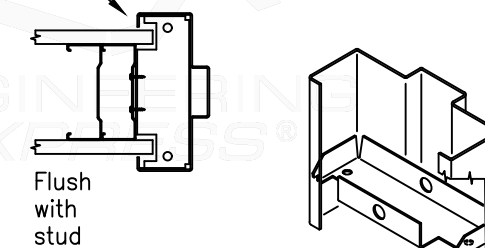
WELDED PIPE SPACER ANCHOR WITH 3/8" WOOD SCREW OR LAG BOLT MINIMUM EDGE DISTANCE = 1.75" MAXIMUM SHIM THICKNESS = 0.25"

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

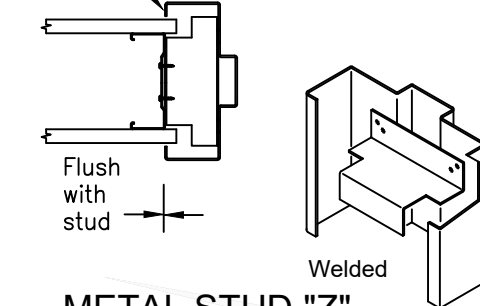


Pocket provided for 1/2" or 5/8" thick wall board



Snap-in type Welded METAL STUD ANCHOR

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



Welded METAL STUD "Z" ANCHOR

Stud Anchor Requirements for Paired Frame Jamb			
Up to an including 70 psf			
Opening Height (inches)	Max. Distance From End of Jamb	Min. Anchor Quantity	Maximum Spacing (inches)
Up to 88"	12	4	21
90"	12	5	21
92"-96"	12	5	21
Stud Anchor Requirements for Heads of Paired Frames			
70 psf	4 anchors in the head @ 3" O.C		

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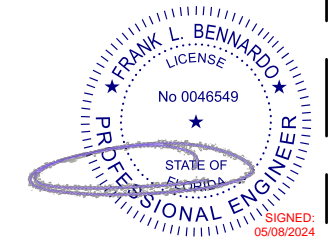
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CECO DOOR GLAZED PAIRS OF DOORS

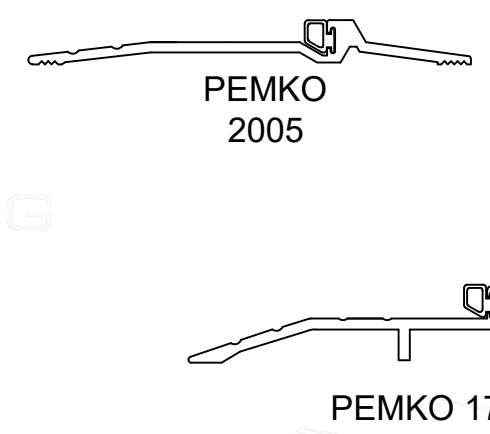
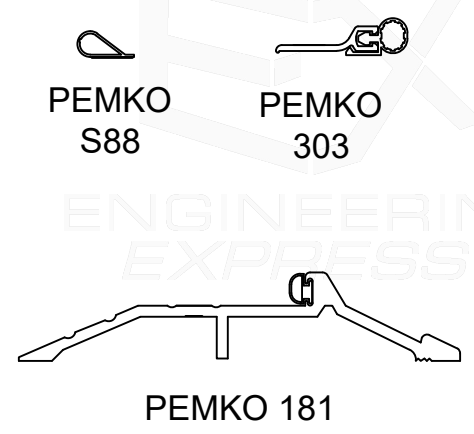
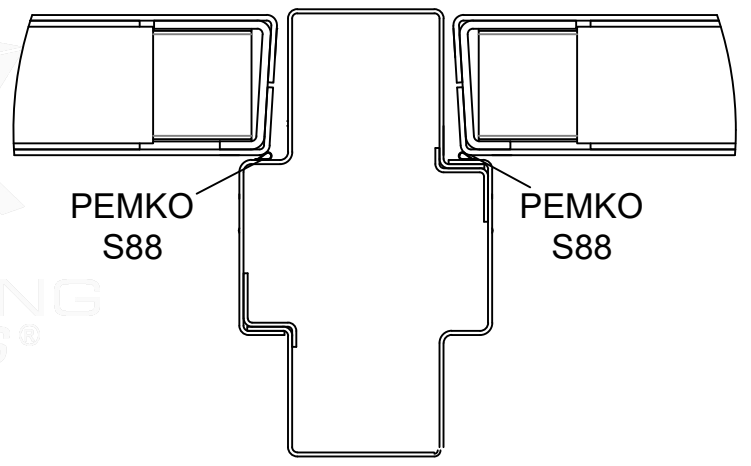
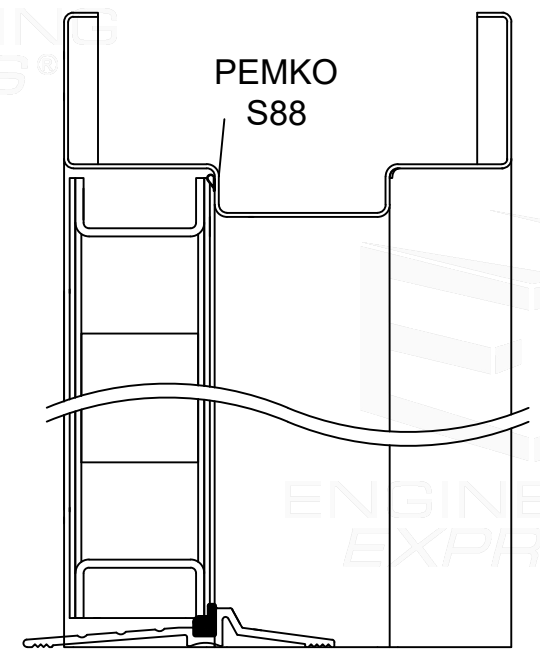
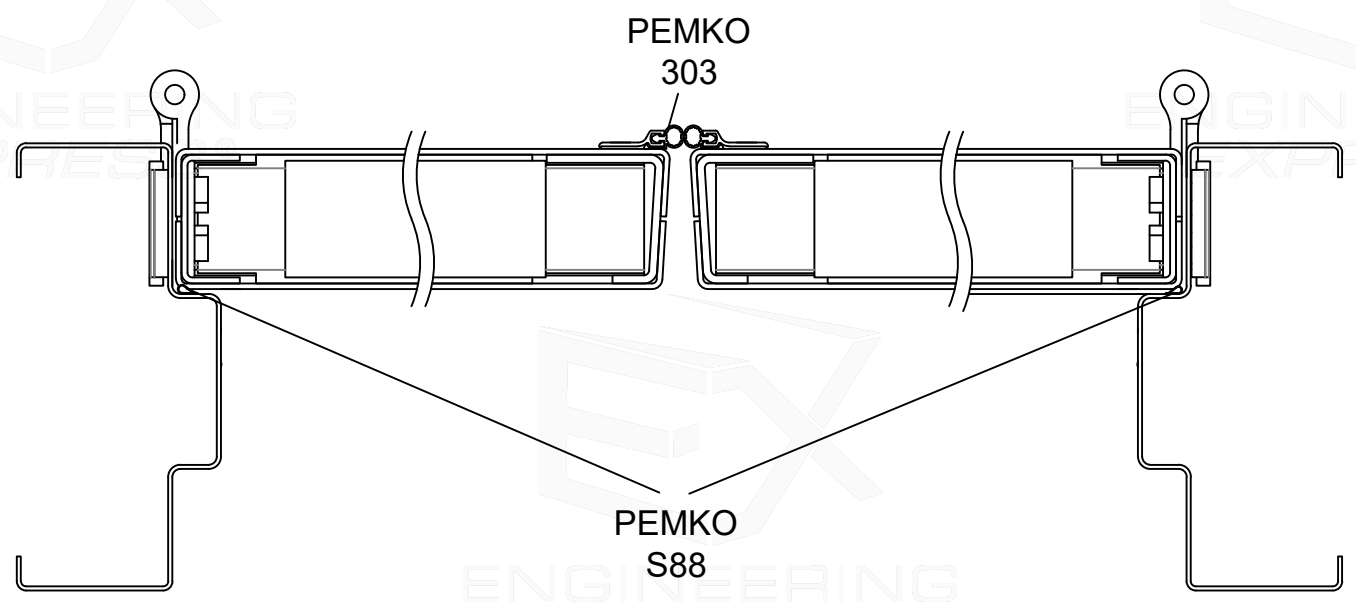
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FRANK BENNARDO, PE
 PE# 0046549 CA# 9885



MAY 8, 2024

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



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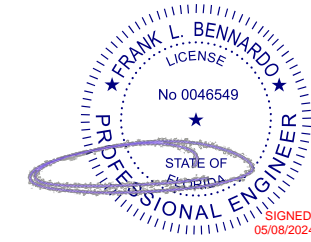
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CECO DOOR GLAZED PAIRS OF DOORS

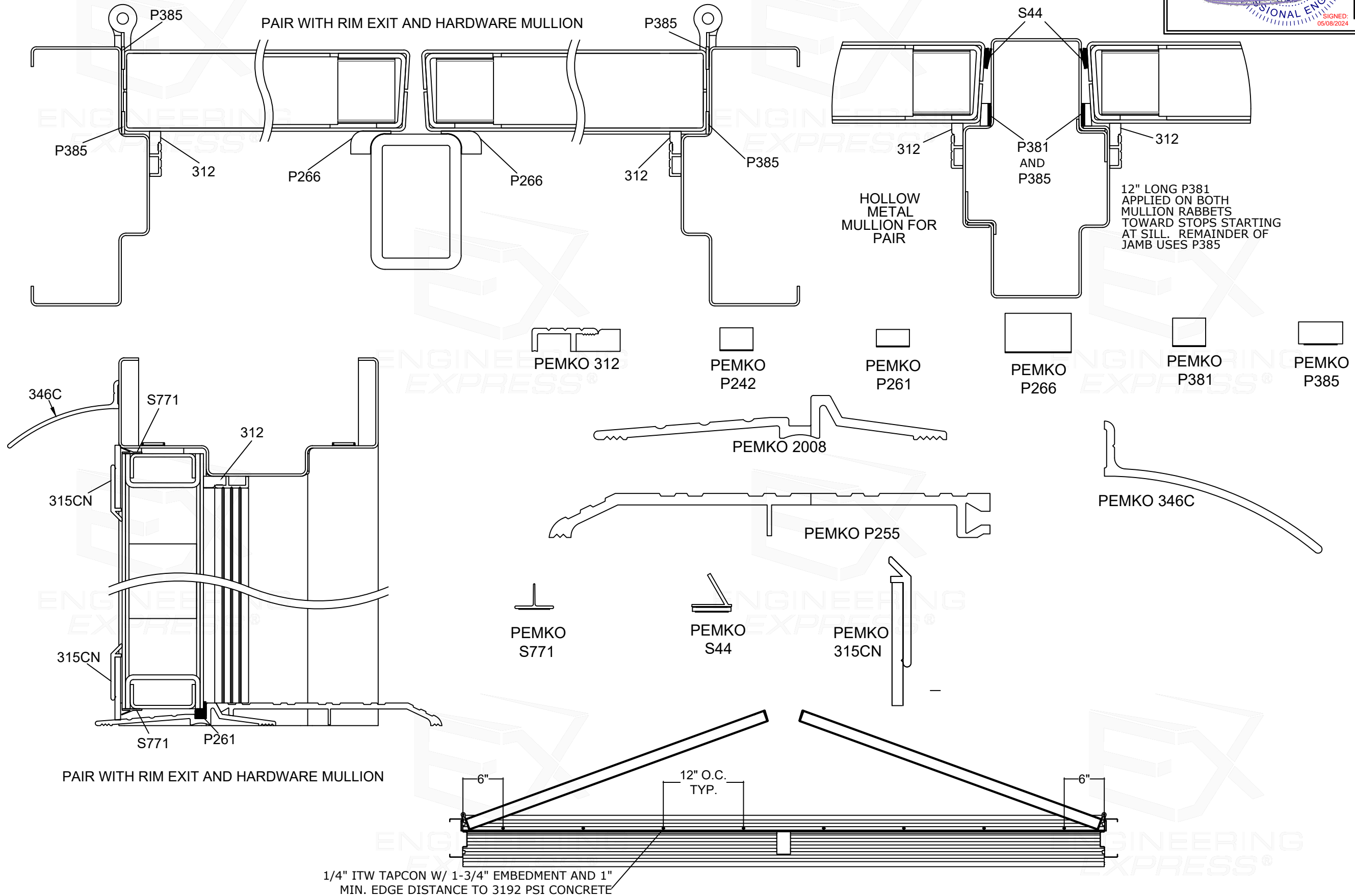
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HARDWARE NOTES

CORBIN RUSSWIN

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

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

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

USE CRFE772A, CREFE708A OR CRWS700AKM HARDWARE MULLION WITH THE ED5200(S)A / ED4200(S)A X M107 RIM EXIT

ON PAIRS OF DOORS, ONE LEAF OF THE PAIR UTILIZING WITH THE ED5470(B) X M107 SURFACE VERTICAL ROD OR MP9800 (A/B) X M107 SERIES CONCEALED MULTI-POINT LOCK MAY BE REPLACED WITH TWO 988CR SURFACE BOLTS. THE LOCAL BUILDING OFFICIAL MUST APPROVE THIS CONFIGURATION OF HARDWARE FOR USE IN A MEANS OF EGRESS.

THE ML2000 SERIES MORTISE LOCKS, SERIES CLX3300 SERIES CYLINDRICAL LOCKS, ED5200(S)A X M107 RIM EXIT, AND ED5470(B) X M107 SURFACE VERTICAL ROD MAY BE PREFIXED IN-IP, IN-IPS, IN-CP, IN-IP-MB, IN-IP-MW, IN-IPS-MB, IN-IPS-MW, IN-CP-MP, AND IN-CP-MW.

THE ML2000 SERIES MORTISE LOCKS, SERIES CLX3300 SERIES CYLINDRICAL LOCKS, ED5200(S)A X M107 RIM EXIT MAY BE PREFIXED PIP1-IPSKM, PWI1-IPSKM, PIP1-CPKM, PWI1-CPKM, PIP1-IPSM, PWI1-IPSM, PIP1-CPM, AND PWI1-CPM.

THE SELP10 AND IN 120 ACCESS CONTROL MAY BE USED WITH CLX3300 CYLINDRICAL LOCK OR ML2000 MORTISE LOCK.

HES

THE 1006 SERIES ELECTRIC STRIKE MAYBE USED ON 4'0" X 8'0" AND SMALLER SINGLE OR 8'0" X 8'0" AND SMALLER PAIRS OUT SWINGING DOORS OF 70 PSF OR LESS.

THE 9600 SERIES ELECTRIC STRIKE MAY BE USED WITH THE SARGENT HC8800 SERIES RIM EXIT AT DESIGN PRESSURES OF 70 PSF OR LESS.

THE 9700 SERIES ELECTRIC STRIKE MAY BE USED WITH THE CORBIN RUSSWIN ED5200(S)A AND THE ASSA ABLOY ACCENTRA 7150(F)WS / 7250M(F)WS RIM EXITS AT DESIGN PRESSURES OF 70 PSF OR LESS.

SECURITRON 1500 / 1500E STRIKE MAY BE USED ON 3'0" X 7'0" AND SMALLER SINGLE OUT SWINGING ASSEMBLIES WITH MORTISE LOCKS AND LATCH BOLT ONLY AT DESIGN PRESSURES OF 60 PSF OR LESS.

SECURITRON 1600 / 1600E STRIKE MAY BE USED ON 4'0" X 8'0" AND SMALLER SINGLE OUT SWINGING ASSEMBLIES WITH MORTISE LOCKS WITH LATCH BOLT AND DEAD BOLT OF 70 PSF AND LESS.

SARGENT

THE HC8800 SERIES RIM EXIT, WS 8800 SERIES RIM EXIT, AND WS-8900 SERIES MORTISE EXIT MAYBE PREFIXED 53, 55, 55-56, 56, 57, 58, AWE, B, BT, ET, 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 WITH 10X CYLINDRICAL LOCK AND THE 8200 AND THE R8200 MORTISE LOCKS.

BUTT HINGES

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

ADDITIONAL HINGES BEYOND THOSE REQUIRED MAY BE REQUIRED.

ASSA ABLOY ACCENTRA

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

USE M200FWS OR KRM200FWS MULLION WITH THE 7150(F)WS / 7250M(F)WS RIM EXIT.

ON PAIRS OF DOORS, ONE LEAF OF THE PAIR UTILIZING WITH THE 7170(F)WS SURFACE VERTICAL ROD MAY BE REPLACED WITH TWO 988CR SURFACE BOLTS. THE LOCAL BUILDING OFFICIAL MUST APPROVE THIS CONFIGURATION OF HARDWARE FOR USE IN A MEANS OF EGRESS

ACCESS CONTROL MAY BE USED.

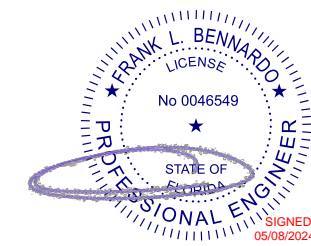
SECURITRON

THE MUNL MAY BE USED ON 60 PSF RATED SINGLE 3'0" X 7'0" ASSEMBLIES WITH A MORTISE CORBIN RUSSWIN ML2000, SARGENT 7800/8200/R8200, OR ASSA ABLOY ACCENTRA 8800 MORTISE LOCK. THE UNL MAY BE USED ON 60 PSF RATED SINGLE 3'0" X 7'0" ASSEMBLIES WITH A CORBIN RUSSWIN CL3100 / CLX3300 / CL3800, SARGENT 6500 / 7 / 10X, OR ASSA ABLOY ACCENTRA / 5300LN / 5400CK / 5400LN CYLINDRICAL LOCKS.

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

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

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