PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE. LARGE MISSILE IMPACT (LMI) - LEVEL "D"

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

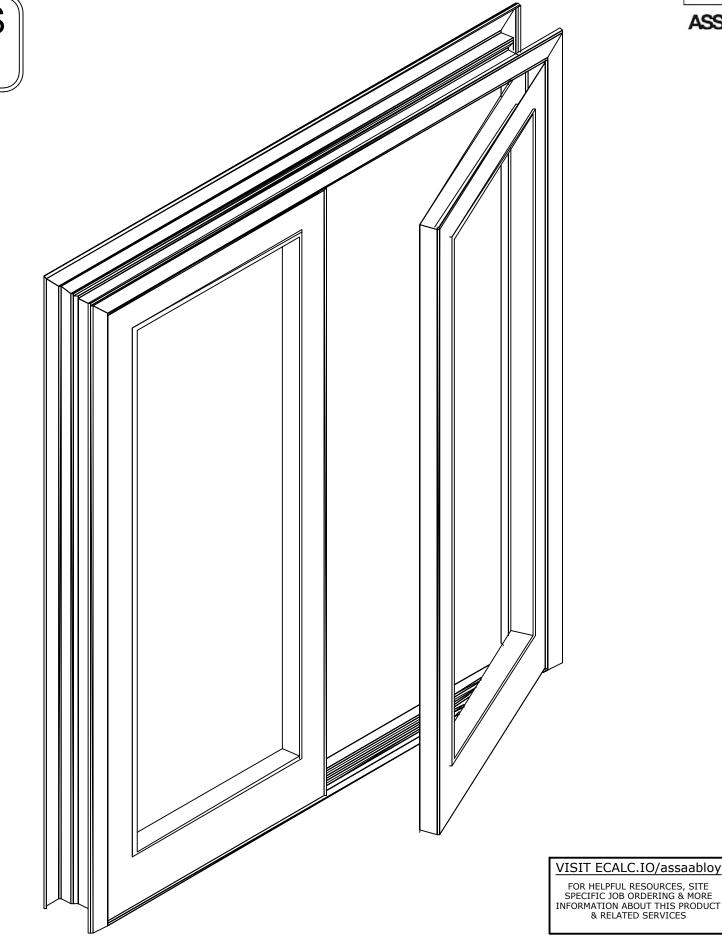
STEP 3: USE PAGES 6 THROUGH 8 TO DETERMINE YOUR GLAZING METHOD

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									



Ceco Door

ASSA ABLOY



FL#16355.3



20-34878 SCALE: NTS UNLESS NOTE



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.







FL#16355.3

CORPORATE OFFICE: 160 SW 12th AVE, SUITE 106 DEERFIELD BEACH, FL 33442

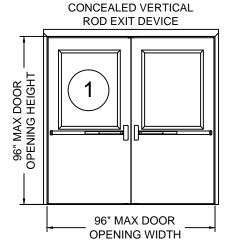
CECO DOOR PRODUCTS
DIVISION OF ASSA ABLOY DOOR GROUP, IN
9159 TELECOM DRIVE
MILAN, TN 38358

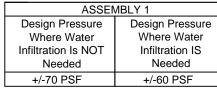
COMMERCIAL STEEL EXTERIOR DOORS
GLAZED PAIRS OF DOORS (LMI)
SEVENTH EDITION (2020 FLORIDA PRODUCT A

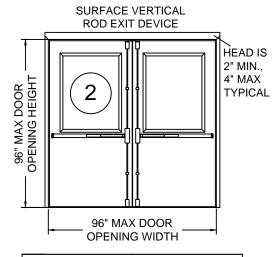
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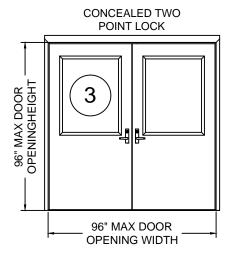






ASSEN	/IBLY 2
Design Pressure	Design Pressure
Where Water	Where Water
Infiltration Is NOT	Infiltration IS
Required	Required
+/-70 PSF	+/-60 PSF
	Design Pressure Where Water Infiltration Is NOT Required

Maglocks may be used in addition to the hardware listed above. Viewers with 1" and smaller hole preparation may be used.



ASSEN	MBLY 3
Design Pressure	Design Pressure
Where Water	Where Water
Infiltration Is NOT	Infiltration IS
Required	Needed
+/-70 PSF	+/-60 PSF

Assembly	sembly Door Series Door Pressure (inches) Exposed Glass (inches)					Maximum Area per Door Leaf Swing (sq. in.)		Latching Hardware Description Active Latching Hardware Description In-A					Description In-Active			
			Positive	Negative	Width	Height	Width	Height	(34. 111.)		Туре	Brand	Model	Туре	Brand	Model
1	Trio, Trio-E ^a	16	70	70	96	96	32	42	1344	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
	Trio, Trio-E ^a	16	70	70	96	06	0	42	1344	Out Swing	Surface	Corbin Russwin	ED5470(B) x M107	Surface Vertical	Corbin Russwin	ED5470(B) x M107
2			10	'0	90	96	32				Vertical	Sargent	HC4-8700,12-HC4-8700	Rod	Sargent	HC4-8700, 12-HC4-8700
											Rod	Yale	7170(F)WS		Yale	7170(F)WS
											Concealed	Sargent	WS-12-7000, HC-12-7000		Sargent	WS-12-7000, HC-12-7000
3	Trio, Trio-E ^a	16	70	70	96	96	32	42	1344	Out Swing		Corbin Russwin	MP9800 (A/B) x M107	Concealed Two Point Lock	Corbin Russwin	MP9800 (A/B) x M107
	a - Glazing may be	Glasslam	Safety P	lus II;	•				•							
	Butt	McKinne	y 4-1/2"	x 4-1/2" (0.13 4 " t	hick ste	el hing	es or a	iny FBC a	pproved hir	nges may be	used. Any	SDI member hinge locati	ons may be used	d.	
Hinges**	Continuous	Markar F	M100, F	M200, F	M300, F	-M3500), FM1	00, or F	=M1111; F	Pemko CFN	MSLF-HD co	ntinuous hir	nges may be used. Any FE	BC approved cor	ntinuous hin	ge may
	Pivots	Rixson 1	95 Pivot	set with I	M19 inte	ermedia	ate pivo	ots may	be used.	Any FBC a	approved pivo	ot may be u	sed.			

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.

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

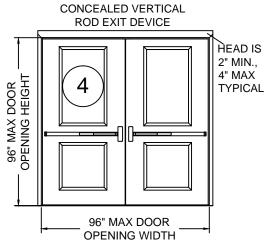
Auxiliary Hardware

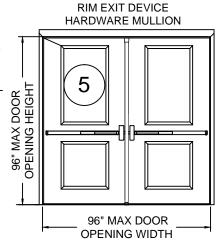
^{**} SUBSTITUTIONS, WITH FBC COMPONENT APPROVALS, MAY BE USED AS LONG AS THE SUBSTITUTIONS ARE WITHIN THE LIMITING DESIGN PARAMETERS OF THIS APPROVAL AND THE COMPONENT APPROVAL.

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.



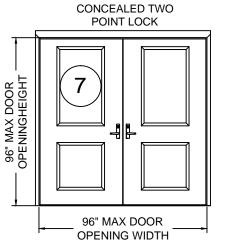






		ROD EXIT DEVICE
96" MAX DOOR OPENING WIDTH	96" MAX DOOR OPENING HEIGHT	

OLIDEA OF MEDTICAL



-	& DEAD BOLT SURFACE BOLTS
1	
96" MAX DOOR OPENINGHEIGHT	8
	96" MAX DOOR OPENING WIDTH

MORTISE LOCK

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

ASSEM	ASSEMBLY 4												
Design Pressure	Design Pressure												
Where Water	Where Water												
Infiltration Is NOT	Infiltration IS												
Needed	Needed												
+/-60 PSF	+/-60 PSF												

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

ASSEN	MBLY 6
Design Pressure	Design Pressure
Where Water	Where Water
Infiltration Is NOT	Infiltration IS
Required	Required
+/-60 PSF	+/-60 PSF

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

Assembly	Door Series	Minimum Door Gauge	De Pres	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		mum osed ass hes)	Maximum Area per Door Leaf Swing (sq. in.)		Latchi	ng Hardwar	e Description Active	Latching Hardware Description In-Active		
			Positive	Negative	Width	Height	Width	Height	(34. 111.)		Туре	Brand	Model	Туре	Brand	Model
4	Medallion, Legion, Omega, Regent, Ultra ^{a,b,c}	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,	16	60	60	96	96	24	66	1501	Out Swing	Rim Exit Device	Corbin Russwin	ED5200S(A) x M107	Rim Exit Device	Corbin Russwin	ED5200S(A) x M107
(")	Ultra ^{a,b,c}	16	60	60	90	96	24	66	1584	Out Swing		Sargent	HC8800, 12-HC8800	RIIII EXIL Device	Sargent	HC8800, 12-HC8800
	Citic											Yale	7150(F)WS/7250M(F)WS		Yale	7150(F)WS/7250M(F)WS
6	Medallion, Legion, Omega, Regent,	16	60	60	96	96	24	66	1584	Out Swing	Surface Vertical Rod	Corbin Russwin	ED5470(B) x M107	Surface Vertical Rod	Corbin Russwin	ED5470(B) x M107
(Ultra ^{a,b,c}	10	00	00	30	30	24	00	1304	Cat Swilly		Sargent	HC4-8700,12-HC4-8700		Sargent	HC4-8700, 12-HC4-8700
												Yale	7170(F)WS		Yale	7170(F)WS
	Imperial, Medallion,										Concealed	Sargent	WS-12-7000, HC-12-7000		Sargent	WS-12-7000, HC-12-7000
7	Legion, Omega, Regent, Ultra, Versadoor ^{a,b,c}	16	60	60	96	96	24	66	1584	Out Swing		Corbin Russwin	MP9800 (A/B) x M107	Concealed Two Point Lock	Corbin Russwin	MP9800 (A/B) x M107
8	Imperial, Medallion, Legion, Omega, Regent, Ultra,	16	60	60	96	96	24	66	1584	Out Swing Or	g Mortise Lock Latch Bolt &	Corbin Russwin	ML2000, ML20600, ML20700, ML20800, ML20900	Surface Bolt	Corbin Russwin	988CR
	Versadoor ^{a,b,c}									In-Swing*	Dead Bolt	Sargent	7800, 8200, R8200		Sargent	988
												Yale	8800		Yale	988Y
	a - Glazing may be	Glasslam	Safety P	'lus II;									c - 70 psf door desgin red	quired		
	b - Glazing may be		<u> </u>													
	Butt	McKinne	y 4-1/2":	x 4-1/2" 0	.134" th	nick stee	el hinge	es or ar	ny FBC ap	proved hin	ges may be ι	used. Any	SDI member hinge location	ns may be used		
Hinges**	Continuous	Markar F be used		M200, FI	M300, I	FM3500), FM10	00, or F	FM1111; F	Pemko CFI	MSLF-HD co	ntinuous hii	nges may be used. Any FE	C approved cor	ntinuous hir	nge may
	Pivots	Rixson 1	95 Pivot	set with N	/ 119 inte	ermedia	ate pivo	ots may	be used.	Any FBC a	approved con	tinuous hin	ge may			

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

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.

Auxiliary Hardware

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

COMMERCIAL STEEL EXTERIOR DOORS
GLAZED PAIRS OF DOORS (LMI)
SEVENTH EDITION (2020 FLORIDA PRODUCT A

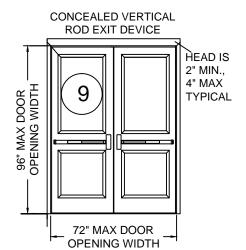
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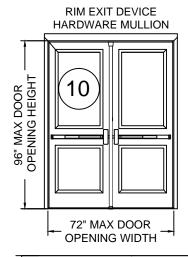


ASSA ABLOY

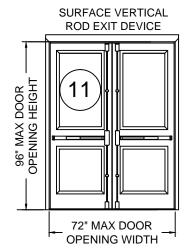
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ASSEMBLY 9							
Design Pressure	Design Pressure						
Where Water	Where Water						
Infiltration Is NOT	Infiltration IS						
Required	Required						
+/-60 PSF	+/-60 PSF						
•							



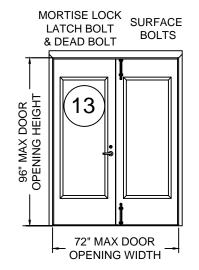
ASSEMBLY 10							
Pressure							
Water							
Infiltration IS							
uired							
PSF							



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



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



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

Assembly	Door Series	Minimum Door Gauge	De Pre: (r	imum sign ssure osf)	Door C (inc	mum Opening hes)	Exp Gli (inc	mum osed ass hes)	Maximum Area per Leaf (sq. in.)	Door Swing	Latchi	ing Hardwar	re Description Active	Latching	ı Hardware	Description In-Active
			Positive	Negative	Width	Height	Width	Height	(54)		Туре	Brand	Model	Туре	Brand	Model
9	Imperial, Medallion, Legion, Omega, Regent, Ultra, Versadoor ^{a,b}	16	60	60	72	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, MD-12-8600
	Imperial, Medallion, Legion, Omega,											Corbin Russwin	ED52008(A) \ M107		Corbin Russwin	ED5200S(A) x M107
(10)	Regent, Ultra,	16	60	60	72	96	24	66	1584	Out Swing	Device	Sargent	HC8800, 12-HC8800	Rim Exit Device	Sargent	HC8800, 12-HC8800
	Versadoor ^{a,b}										201100	Yale	7150(F)WS/7250M(F)WS		Yale	7150(F)WS/7250M(F)WS
	Imperial, Medallion, Legion, Omega,										ut Swing Surface	Corbin Russwin	ED5470 x M107	Surface Vertical	Corbin Russwin	ED5470(B) x M107
(11)	Regent, Ultra,	16	60	60	72	96	24	66	1584	1584 Cut Swing!		Sargent	HC-8700,12-HC-8700	Rod	Sargent	HC-8700, 12-HC-8700
	Versadoor ^{a,b}											Yale	7170(F)WS		Yale	7170(F)WS
12	Imperial, Medallion, Legion, Omega,	16	60	60	72	96	24	66	1584	Out Swing	Swing Two	Sargent	WS-12-7000, HC-12-7000	Concealed Two Point Lock	Sargent	WS-12-7000, HC-12-7000
	Regent, Ultra, Versadoor ^{a,b}	10	00	80	12	90	24	00	1504	Out Swing		Corbin Russwin	MP9800 (A/B) x M107		Corbin Russwin	MP9800 (A/B) x M107
13	Imperial, Medallion, Legion, Omega, Regent, Ultra,	16	60	60	72	96	24	66	1584	Out Swing Mortise Lock Corbin ML20700, ML20800,	e Lock Russwin ML20700, ML20800,	Corbin Russwin	988CR			
	Versadoor ^{a,b}										Dead Bolt	Sargent	7800, 8200, R8200		Sargent	988
												Yale	8800		Yale	988Y
	a - Glazing may be b - Glazing may be				/idth lim	ited to 2	22", He	eight lin	nited to 33	3-1/2"						
	Butt	McKinne	y 4-1/2"	x 4-1/2" 0).134" tl	nick stee	el hing	es or a	ny FBC ap	proved hir	nges may be	used. Any	SDI member hinge location	ns may be used		
Hinges**	Continuous	Markar F be used.		FM200, F	M300,	FM3500), FM1	00, or I	=M1111; F	Pemko CF	MSLF-HD co	ntinuous hii	nges may be used. Any FE	BC approved cor	ntinuous hir	nge may
	Pivots	Rixson 1	95 Pivot	set with I	M19 int	ermedia	ate pivo	ots may	be used.	Any FBC	approved piv	ot may be	used.			
Auxili	arv 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.														

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COMMERCIAL STEEL EXTERIOR DOORS GLAZED PAIRS OF DOORS (LMI) SEVENTH EDITION (2020 FLORIDA PRODUCT A

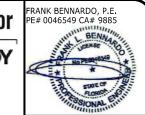
DPYRIGHT ENGINEERING EXPRESS 20-34878

SCALE: NTS UNLESS NOTE



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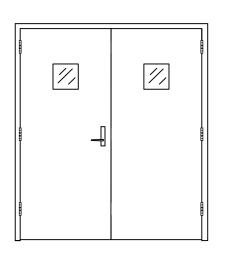


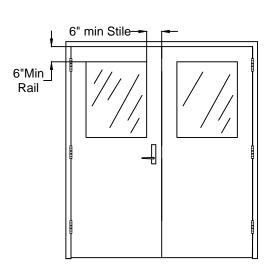
CECO DOOR PRODUCTS
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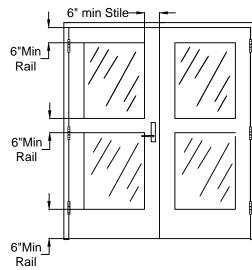
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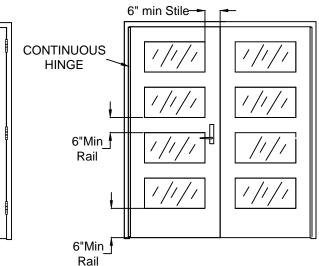


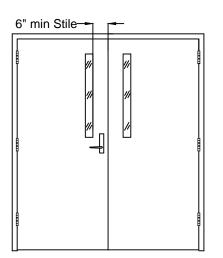
OPTIONAL ELEVATIONS

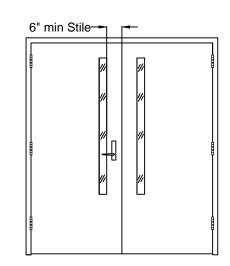


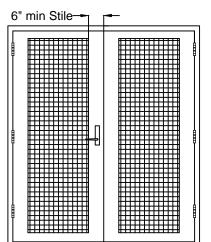


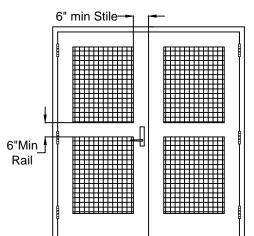












6" min Stile

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FL#16355.3

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

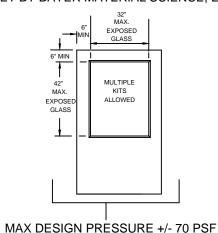
CECO DOOR PRODUCT

20-34878

SCALE: NTS UNLESS NOTE 06

GLAZING OPTION GLASSLAM SAFETY PLUS II LAMINATED GLASS

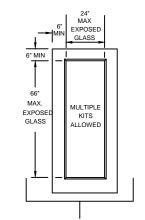
1/4" THICK MAKROLON POLYCARBONATE SHEET BY BAYER MATERIAL SCIENCE, LLC



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

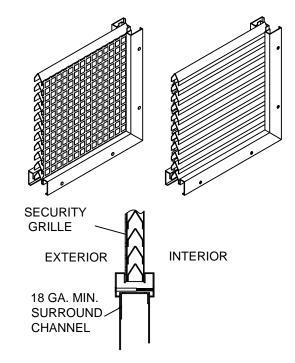


MAX DESIGN PRESSURE +/- 60 PSF

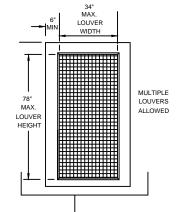
GLASSLAM SAFETY PLUS II

- 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



GLAZING OPTION PEMKO LV-WS LOUVER



MAX DESIGN PRESSURE +/- 70 PSF

ROCKWOOD LV-WS LOUVER

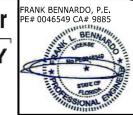
- 1.) DESIGN PRESSURE 70 PSF MAX.
- 2.) MAXIMUM LOUVER SIZE IS 34" X 78". MAY BE USED WITH CYLINDRICAL LOCKS AND MORTISE LOCKS. CONTACT FACTORY FOR LIMITATIONS WHEN USING EXIT DEVICES,
- 3.) 6" MINIMUM STILES AND RAILS REQUIRED.
- 4.) MULTIPLE LOUVERS ALLOWED PER DOOR UP TO 3652 SQ. IN.
- 5.) SURROUND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

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- 3/16" TEMP + .090" SPII + 3/16" TEMP

ASSA ABLOY



FL#16355.3

ECO DOOR

20-34878 SCALE: NTS UNLESS NOTED

1/8" X 1/2" CLOSED CELL FOAM 0.625" 0.625" **GLAZING TAPE USED ON FIXED** 3/16" TEMP + .090" SPII + 3/16" TEMP 3/16" TEMP + .090" SPII + 3/16" TEMP AND REMOVABLE STOPS 0.625" REMOVABLE PET **REMOVABLE GLASS** REMOVABLE **GLASS STOP STOP** GLASS 0.625" 0.500' 0.625" 0.500" 0.500" 0.750" **STOP DOW CORNING 995** PET FLAP **STRUCTURAL DOW CORNING 995** SILICONE **STRUCTURAL** PET SILICONE **DOW CORNING 995** GLAZING FLAP STRUCTURAL SILICONE SHIMS 1/8" X 1/2" CLOSED CELL AS NEEDED FOAM GLAZING TAPE USED ON FIXED AND REMOVABLE SURROUND CHANNEL REQUIRED STOPS

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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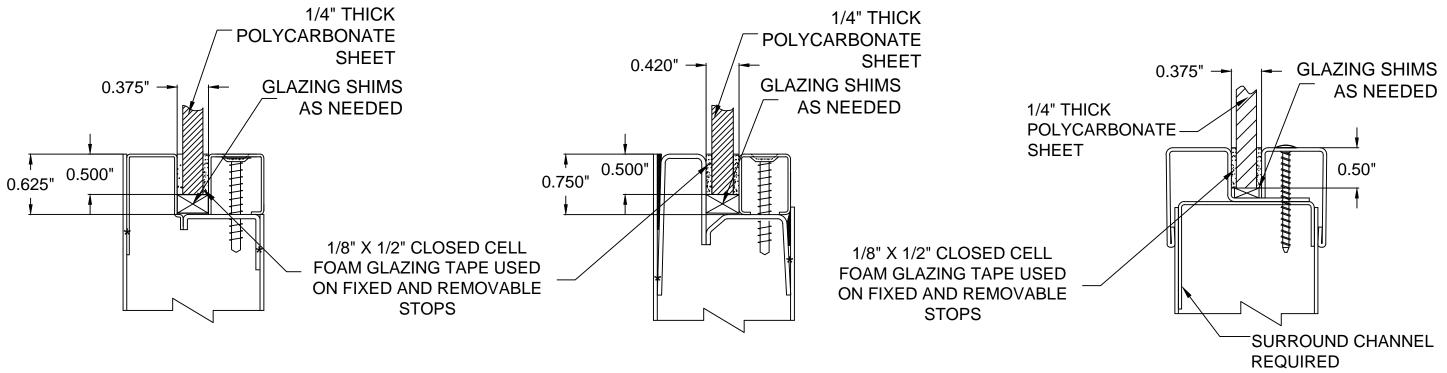


ASSA ABLOY



FL#16355.3

20-34878 SCALE: NTS UNLESS NOTE



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.

FRANK BENNARDO, P.E. PE# 0046549 CA# 9885 CECO DOOR GLAZED PAIRS OF DOORS **□**Ceco Door 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) ASSA ABLOY PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE. FRAME PROFILES 4" MIN. 4" MIN. 14" MAX 14" MAX. 2.125" HEAD FACE 1.9375" Door Rabbet 2" MIN. Door Rabbet FL#16355.3 4" MAX E, SUITE 106 CH, FL 33442 JAMB FACE SEE PROFILES **HOLLOW METAL** OPTIONAL MULLION FACE HARDWARE 2" MIN. 4" MAX. OR HM MULLION 4" MIN. 4" MIN. 14" MAX 14" MAX 2.125" 1.9375" Door Rabbet Door Rabbet 2-5/8" 2-5/8" 8'0" X 8'0" MAX. 4" MIN./14" MAX. DEPTH KD 16 GA. MIN. WELDED 16 GA MIN., 12 GA. MAX. MAX DESIGN PRESSURE +/-70 PSF KERF PROFILE CONVENTIONAL PROFILE FOUR SIDED DOOR FRAME WITH WELDED CORNERS ALSO PERMITTED CECO DOOR PRODUCTS /ISION OF ASSA ABLOY DOOR GROUP, IN 9159 TELECOM DRIVE MILAN, TN 38358 FRAME CONSTRUCTION OPTIONS -3/4" LEG OF 10 GA. "C" CHANNELS FULLY WELDED TO HOLLOW METAL FACE WELDED VERTICAL MULLION - FACE WELDED KD CORNER 3/4" LEG OF 10 GA. "C" CHANNELS CORNER KD CORNER FULLY WELDED TO HOLLOW METAL VERTICAL MULLION 12 GAUGE FOOT CLIP CLIPS REQUIRED AT BASE OF HOLLOW METAL MULLION. USE (2) FOOT CLIPS WITH 3/8" HILTI KWIK-BOLT III WITH 1.625" MIN. EMBED AND 4" EDGE DISTANCE TO 3KSI CONCRETE, 4" MIN. SPACING. USE (4) FOOT CLIPS WITH 3/8" LAG SCREWS TO G=0.55 MIN. WOOD W/ 3" MIN. EMBED, 1.75" MIN. EDGE DISTANCE, AND 2.5" MIN, SPACING. CONTINUOUSLY WELDED ON BOTH ENDS AT SEAMS FACE WELDED FACE WELDED ONLY ONLY FACE WELDED ONLY 10 Ga. "C" Channe must be PYRIGHT ENGINEERING EXPRESS installed before welding together

FL# 16355.3

20-34878

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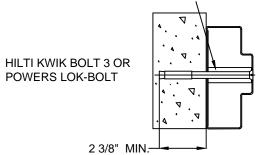


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ASSA ABLOY

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"

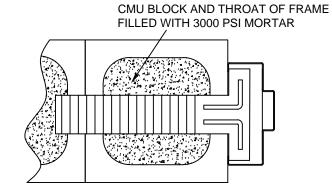


70 psf

16 GA (0.053" MIN) 16 GA (0.053" MIN) PIPE SPACER ANCHOR **EWA ANCHOR** TÒ SUIT TO SUIT JAMB DEPTH JAMB DEPTH

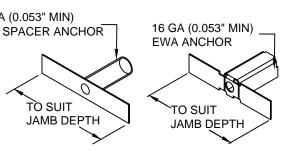
1/2" MAX. THICK A-36 STEEL SHIMS WELDED TO STRUCTURAL BUILDING MEMBER WITH FILLET WELDS MEASURING 2" LONG USING E6018 ELECTRODES. FILLET WELD SIZE SAME AS SHIM THICKNESS FOR 0.053" TO 0.125" SHIM THICKNESS. WELD SIZE 1/8" FOR > 0.125" TO 1/4" SHIM THICKNESS. STEEL SHIMS WELDED TO BUILDING STRUCTURE

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 _1.25" GREATER THAN_ JAMB DEPTH FRAME JAMB DEPTH



MAXIMUM SHIM THICKNESS 0.25

16 GA (0.053" MIN) MASONRY TANGHOR MASONRY WIRE ANCHOR 0.165" DIA. MIN.-OPERATING RANGE 3" - 8 3/4



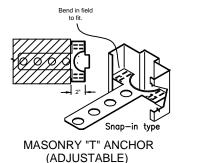
YOKE AND STRAP

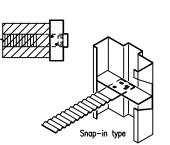
MASONRY ANCHOR

70 psf

MAXIMUM SHIM

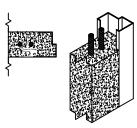
SPACE 1/4"





MASONRY "T" ANCHOR

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



POURED IN PLACE WALL

Expansion Shell Anchor Requirements for Jambs of Paired Frames							
	Up to an including 70 psf						
Opening Height (inches)	Max. Distance From End of Jamb Min. Anchor Quantity (inches)						
Up to 88"	12	4	19				
90"	12	4	19				
92"-96"	92"-96" 12 4 19						
Expansion Shell Anchor Requirements for Heads of Paired Frames							

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

Masonry Strap, Masonry T, and	Masonry Wire Anchor Requirements for Jambs 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				
92"-96"	12	4	24				
Expansion Shell Anchor Requirements for Heads of Paired Frames							

FRANK BENNARDO, P.E. PE# 0046549 CA# 9885

FL#16355.3

CECO DOOR F

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SCALE: NTS UNLESS NOTE

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Ceco Door

ASSA ABLOY

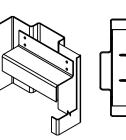


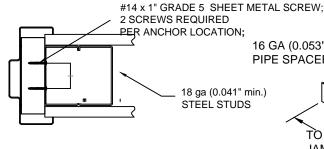
FL#16355.3

20-34878 SCALE: NTS UNLESS NOTE

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

SLIP -IN STUD ANCHOR WELDEED TO FRAME CONNECT TO STEEL WITH #8 X 1" GRADE 5 SHEET METAL SCREW; 4 SCREWS REQUIRED PER ANCHOR; MIN EDGE DISTANCE - 0.328" 18 ga (0.041" min.) STĚEL STUDS





PIPE SPACER ANCHOR TO SUIT JAMB DEPTH

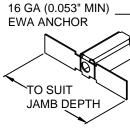
WELDED PIPE SPACER ANCHOR OR EWAY

PLANE. MINIMUM EDGE DISTANCE = 1.75"

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

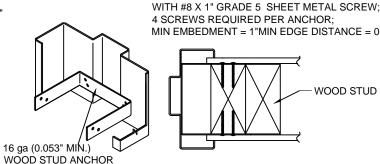
WITH 3 PINCHES PASSED THE THREAD

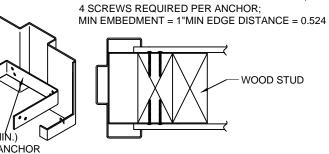
16 GA (0.053" MIN)



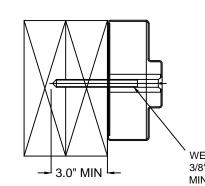
WITH #8 X 1" GRADE 5 SHEET METAL SCREW; 4 SCREWS REQUIRED PER ANCHOR: MIN EMBEDMENT = 1"MIN EDGE DISTANCE = 0.524" WOOD STUD 16 ga (0.053" MIN.) WOOD STUD ANCHOR

WELDED WOOD STUD ANCHOR





WELED WOOD STUD ANCHOR



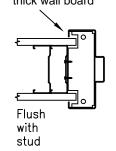
MAXIMUM SHIM THICKNESS = 0.25" 1/4" THK. MIN. A36 MIN. STEEL SUBSTRATE WELDED PIPE SPACER ANCHOR WITH 3/8" WOOD SCREW OR LAG BOLT MINIMUM EDGE DISTANCE = 1.75" MAXIMUM SHIM THICKNESS = 0.25

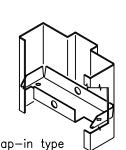
	Up to an including 70 psf						
Opening	Max. Distance	Maximum					
Height	From End of	Min. Anchor Quantity	Spacing				
(inches)	Jamb	Quantity	(inches)				
Up to 88"	12	4	21				
90"	12	5	21				
92"-96"	12	5	21				

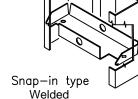
Stud Anchor Requiremnts for Heads of Paired Frames 4 anchors in the head @ 3" O.C 70 psf

Note: Stud Anchors May not be Used Above 70 psf.

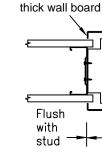






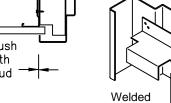


METAL STUD ANCHOR



Pocket provided

for 1/2" or 5/8"



METAL STUD "Z" **ANCHOR**

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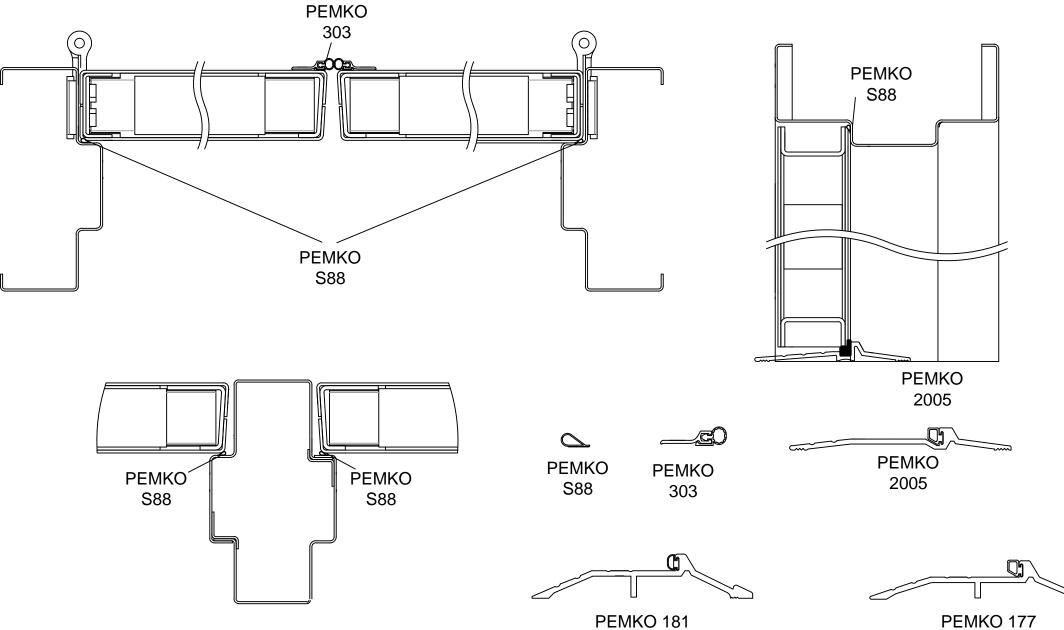


FRANK BENNARDO, P.E. PE# 0046549 CA# 9885

FL#16355.3

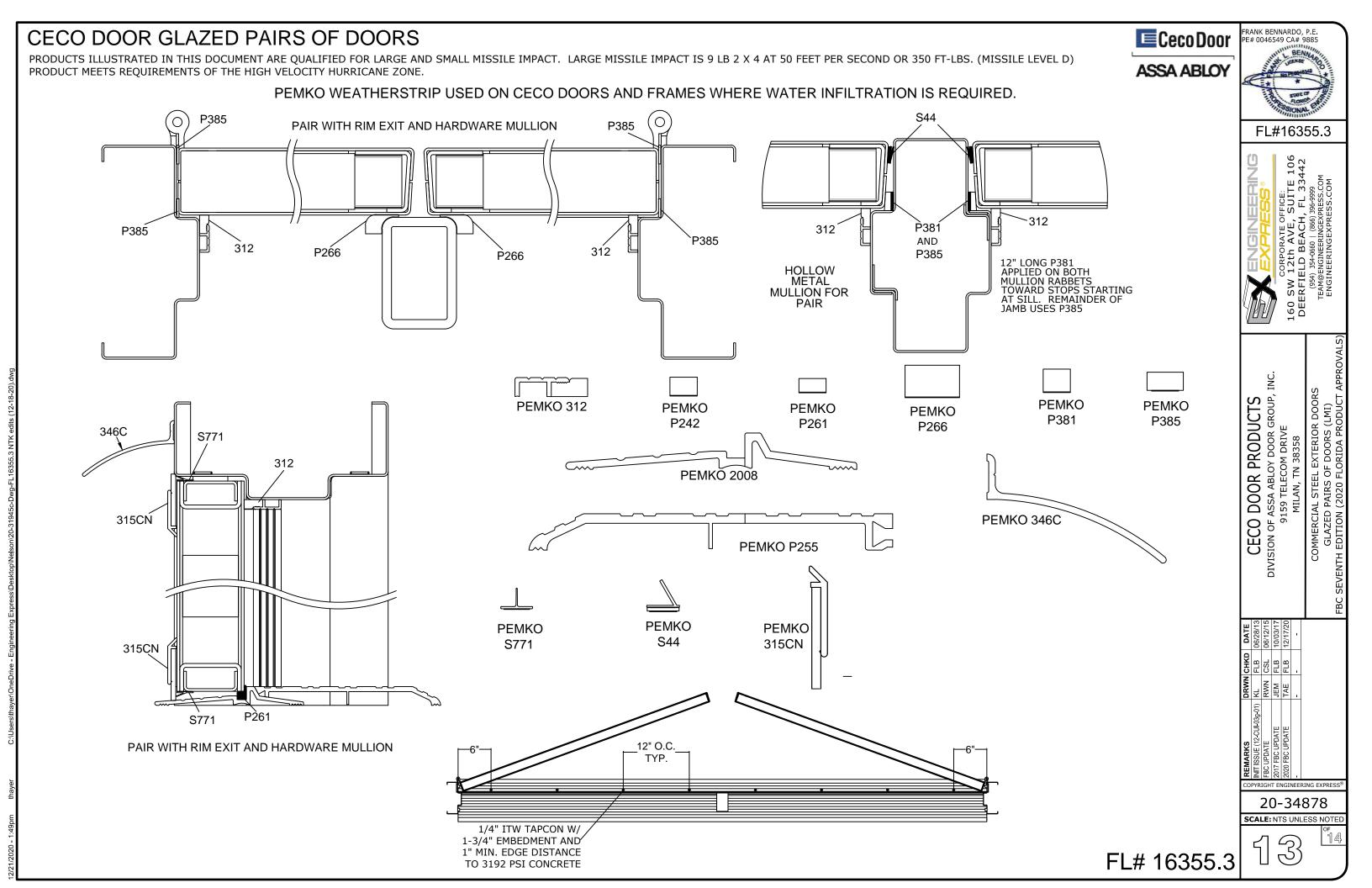
20-34878 SCALE: NTS UNLESS NOTED

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





PEMKO 181



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 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 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 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

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.



FRANK BENNARDO, P.E. PE# 0046549 CA# 9885

FL#16355.3

GORPORATE OFFICE:
60 SW 12th AVE, SUITE 106
DEERFIELD BEACH, FL 33442

INC.

CECO DOOR PRODUCTS
DIVISION OF ASSA ABLOY DOOR GROUP, IN
9159 TELECOM DRIVE
MILAN, TN 38358 R DOORS (LMI)

OF DC FLORI COMMERCIAL STEEL E GLAZED PAIRS OF ITH EDITION (2020 FLO

20-34878 SCALE: NTS UNLESS NOTE

