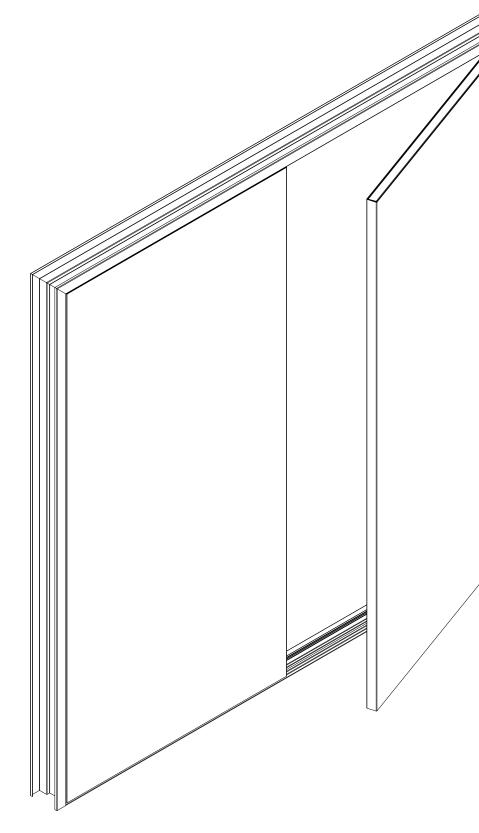
# CECO DOOR STORMPRO MULTI POINT LOCK DOOR ASSEMBLY - HURRICANE OR COMBINED HURRICANE AN

PRODUCT MEETS REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR HURRICANE OR COMBINED HURRICANE AN

# **INSTRUCTIONS FOR USING THIS APPROVAL**

- **STEP 1:** USE THE DOOR ELEVATIONS PROVIDED ON SHEETS 2 (SINGLE OPENINGS) OR 3 (PAIRED OPENINGS) TO DETERMINE THE APPLICABLE ASSEMBLY NUMBER.
- **STEP 2:** MOVE TO THE CHART BELOW THE DOOR ELEVATIONS, ALSO ON SHEETS 2 AND/OR 3, AND LOCATE YOUR ASSEMBLY NUMBER. BY SCANNING HORIZONTALLY THROUGH THE SAME ROW OF YOUR ASSEMBLY NUMBER, YOU WILL BE ABLE TO DETERMINE THE APPROVED MIN. DOOR/FRAME GAUGE, PERMITTED OPENING SIZE, SWINGING OPTIONS, AND ACTIVE AND INACTIVE LATCHING HARDWARE FOR PANELS. SPECIFIC ASSEMBLY CERTIFICATION LISTING CARD CAN BE FOUND BY SELECTING THE ZHLA LINK IN THE RIGHT COLUMN OF THE TABLE.
- **STEP 3:** USE SHEET 4 TO DETERMINE YOUR FRAMING PROFILE AND FRAMING CONSTRUCTION OPTIONS.
- **STEP 4:** USE THE TABLE(S) ON SHEET 5 AND/OR 6 TO DETERMINE THE ANCHOR TYPE AND SPACING, BASED ON YOUR OPENING SIZE AND SUBSTRATE CRITERIA.
- STEP 5: USE THE TABLE(S) ON SHEET 7 TO SELECT APPROVED HINGE(S) AND HINGE OPTIONS.
- STEP 6: USE THE TABLE(S) ON SHEET 8 TO SELECT APPROVED OPTIONAL ACCESSORIES.

	SHEET INDEX
SHEET #	DESCRIPTION
1	COVER SHEET
2	ASSEMBLY OPTIONS - SINGLE OPENINGS
3	ASSEMBLY OPTIONS - PAIRED OPENINGS
4	DOOR FRAME OPTIONS
5	DOOR FRAME ANCHORING INFORMATION - EXISTING OPENING & WELD TO BUILDING STRUCTURE
6	DOOR FRAME ANCHORING INFORMATION - MASONRY
7	HINGE OPTIONS
8	OPTIONAL ACCESSORIES
9	MANUFACTURERS' NOTES

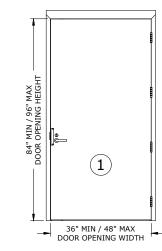


<b>D TORNADO SHELTER</b> ID TORNADO SHELTERS	Ceco Door
	ASSA ABLOY
	Experience a safer and more open world
	CECO DOOR PRODUCTS DIV OF ASSA ABLOY DOOR GROUP LLC 9159 TELECOM DRIVE MILAN, TN 38358 COMMERCIAL STEEL IMPACT PROTECTIVE SYSTEM SIDE-SWINGING DOOR ASSEMBLY WITH MULTI POINT LOCK HDW FBC EIGHTH EDITION (2023) FLORIDA PRODUCT APPROVAL # 40296.7
	DATE 11/13/23          
	CHKD LT LT 
	DRWN CHKD       PM     LT       -     -  -     - <tr tr=""></tr>
	REV     DESCRIPTION     DRWN     CHKD     DATE       0     ORIGINAL ISSUE     PM     LT     11/13/23       1     -     -     -     -       1     -     -     -     -       1     -     -     -     -       1     -     -     -     -       1     -     -     -     -       1     -     -     -     -       1     -     -     -     -       1     -     -     -     -     -       1     -     -     -     -     -     -       1     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -       1     -     -     -     -     -     -     -     -     -       1     -     -     -     -     -
	VOL.SEC.ILL: 2.1.D1 SHEET: 1 OF 9

# CECO DOOR STORMPRO MULTI POINT LOCK DOOR ASSEMBLY - HURRICANE OR COMBINED HURRICANE AND TORNADO S

PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR HURRICANE OR COMBINED HURRICANE AND TORNADO SHELTERS DESIGN PRESSURE: ±201 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH

SINGLE OPENING - FLUSH



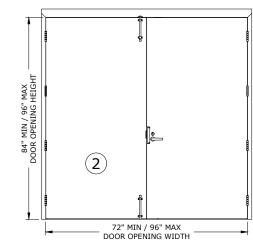
## FLUSH DOOR

Assembly	Minimum Door	Minimum Frame		ted Openi mum		inches) mum	Door Swing	L	atching Hardware	Description		Glazing
	Gauge	Gauge	Width	Height	Width	Height	JWing	Туре	Manufacturer	Model	Manufacturer	Model
1	14	14	36	84	48	96	In-Swing or	Multi Point Lock	Sargent	FM7300 Series	N/A	N/A
T	14	14	30	04	40	90	Out-Swing	Multi Politi Lock	Corbin Russwin	FE6600 Series	N/A	N/A

SHELTER	Ceco Door ASSA ABLOY
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UL ZHLA Assembly No. 45	CECO DOOR PRODUCTS DIV OF ASSA ABLOY DOOR GROUP LLC 9159 TELECOM DRIVE MILAN, TN 38358 COMMERCIAL STEEL IMPACT PROTECTIVE SYSTEM SIDE-SWINGING DOOR ASSEMBLY WITH MULTI POINT LOCK HDW FBC EIGHTH EDITION (2023) FLORIDA PRODUCT APPROVAL # 40296.7
	DRWN CHKD DATE   PM LT 11/13/23   - - -   - -
	V CHKD LT LT 
	DRWI       PM       -
	REV   DESCRIPTION   DRWN   DRWN   DHKD     REV   0

# CECO DOOR STORMPRO MULTI POINT LOCK DOOR ASSEMBLY - HURRICANE OR COMBINED HURRICANE AND TORNAD

PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR HURRICANE OR COMBINED HURRICANE AND TORNADO SHELT DESIGN PRESSURE: ±201 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH PAIRED OPENING - FLUSH

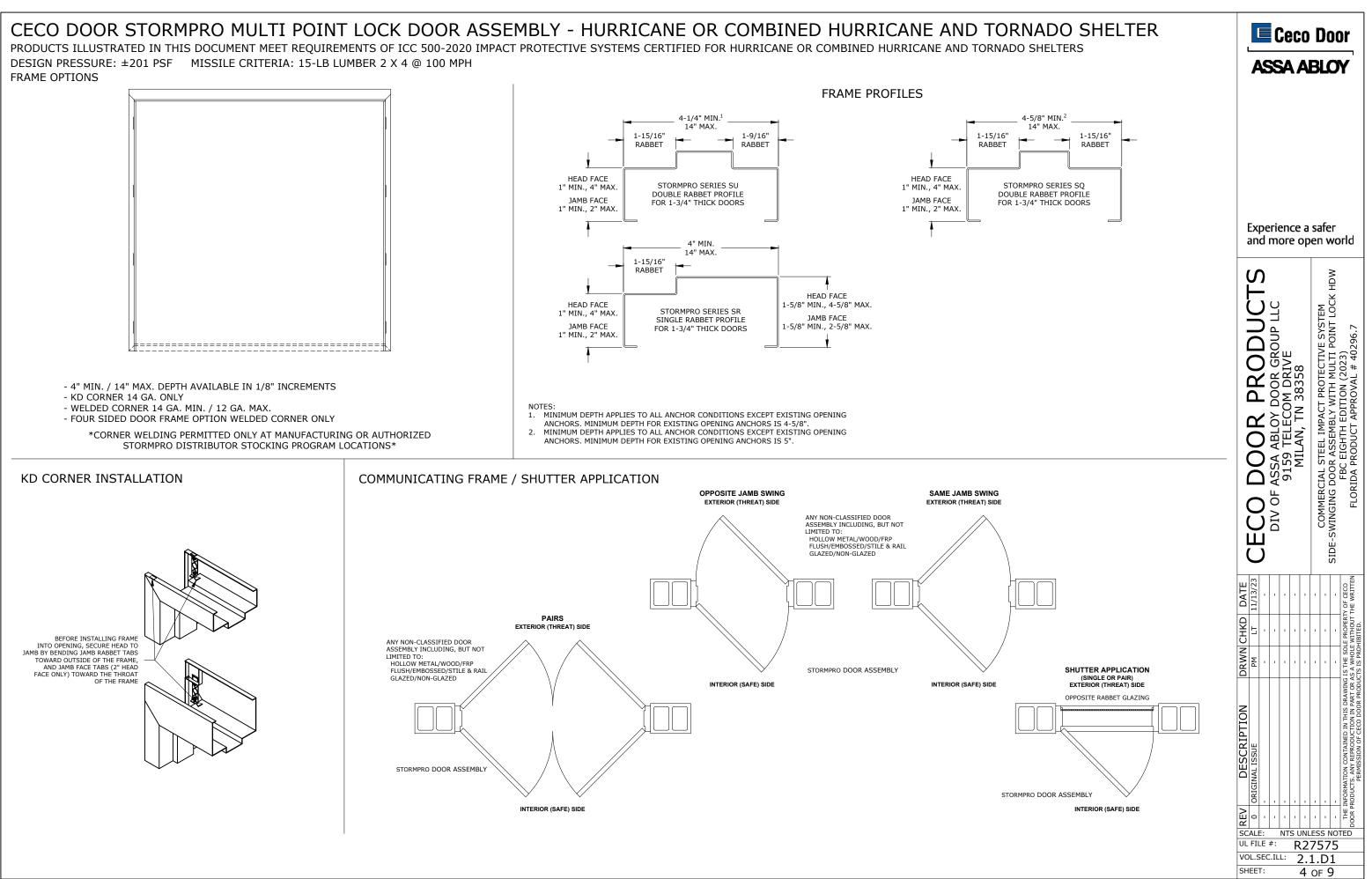


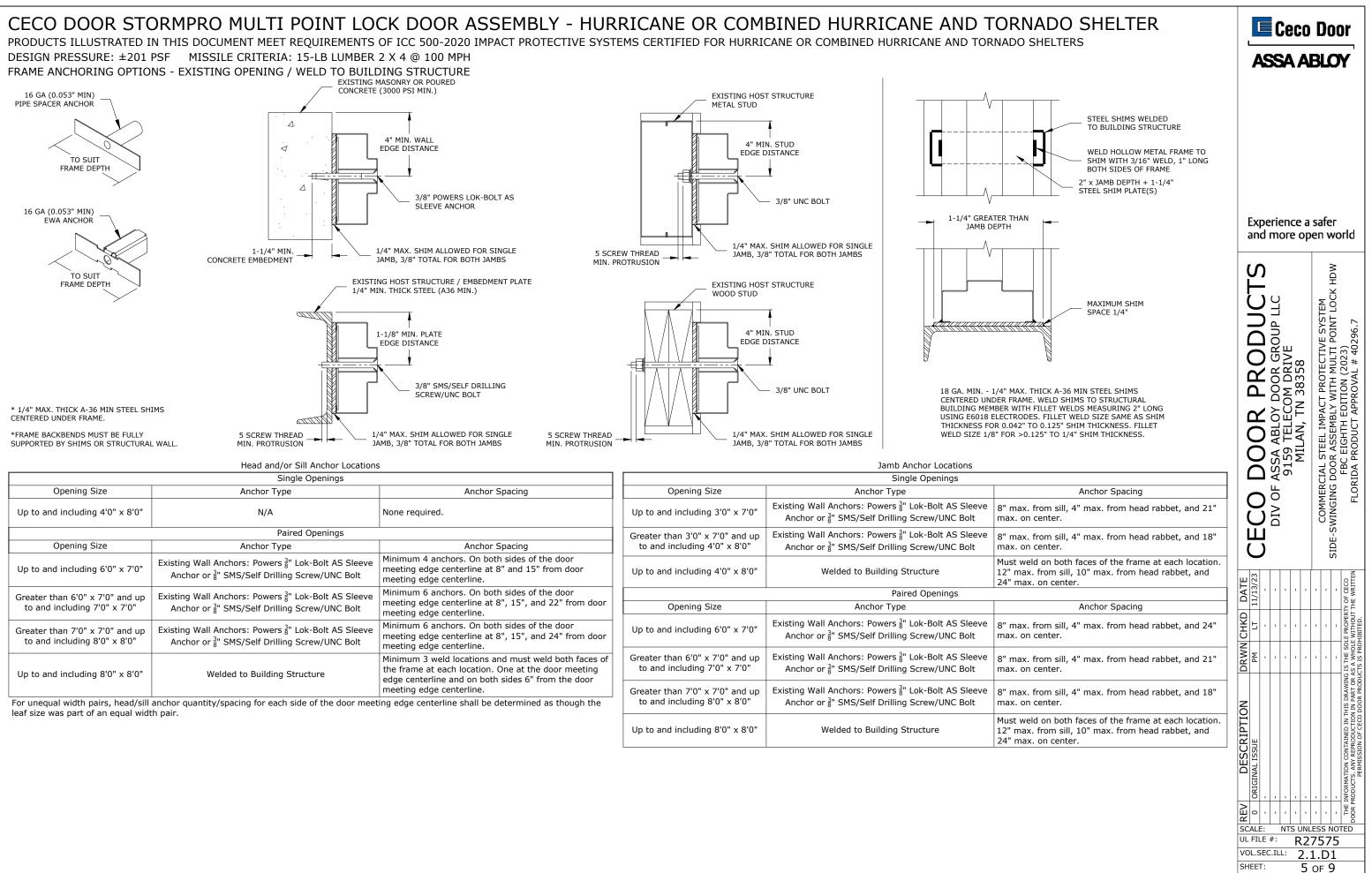
### FLUSH DOOR

Assembly	Minimum Door	Minimum Frame		ed Openir mum		inches) <sup>1</sup> mum	Door Swing	La	atching Hardware	Description		Glazing
	Gauge	Gauge	Width	Height	Width	Height		Туре	Manufacturer	Model	Manufacturer	Model
								Multi Point Lock (Active)	Sargent	FM7300 Series		
									Corbin Russwin	FE6600 Series		
2 <sup>2</sup>	14	14	72	84	96	96	In-Swing or Out-Swing		Sargent	988, 988-1, 988-2	N/A	N/A
							out owing	Surface Bolt (Inactive)	Corbin Russwin	988CR, 988CR-1, 988CR-2	_	
									Yale	988Y, 988Y-1, 988Y-2		

<sup>1</sup> Unequal width pairs are allowed provided that the overall opening size meets min/max permitted size requirements for pairs & each individual leaf size meets min/max permitted size requirements for a single opening as shown on sheet <sup>2</sup> Factory installed 10 ga. flat plate astragal attached to threat side active or inactive panel required.

	Ceco Door ASSA ABLOY
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UL ZHLA Assembly No. <u>45</u>	CECO DOOR PRODUCTS DIV OF ASSA ABLOY DOOR GROUP LLC 9159 TELECOM DRIVE MILAN, TN 38358 COMMERCIAL STEEL IMPACT PROTECTIVE SYSTEM SIDE-SWINGING DOOR ASSEMBLY WITH MULTI POINT LOCK HDW FBC EIGHTH EDITTON (2023) FLORIDA PRODUCT APPROVAL # 40296.7
	REV   DESCRIPTION   DRWN   CHKD   DATE     0   ORIGINAL ISSUE   PM   LT   11/13/23     1   0   ORIGINAL ISSUE   PM   LT   11/13/23     1   0   ORIGINAL ISSUE   PM   LT   11/13/23     1   1   1   1   1   1     1   1   1   1   1   1     1   1   1   1   1   1     1   1   1   1   1   1   1     1   1   1   1   1   1   1   1     1
	Assembly No.

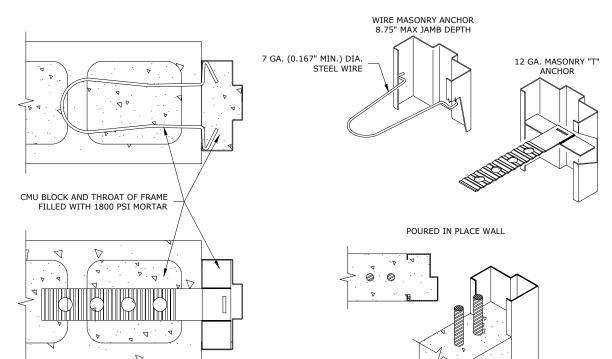




# CECO DOOR STORMPRO MULTI POINT LOCK DOOR ASSEMBLY - HURRICANE OR COMBINED HURRICANE AND TORNADO SHELTER PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR HURRICANE OR COMBINED HURRICANE AND TORNADO SHELTERS

PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR HURRICANE OR COMBINED HURRICANE AND TORNAD DESIGN PRESSURE: ±201 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH

FRAME ANCHORING OPTIONS - MASONRY ANCHORS



\*FRAME BACKBENDS MUST BE FULLY SUPPORTED BY STRUCTURAL WALL.

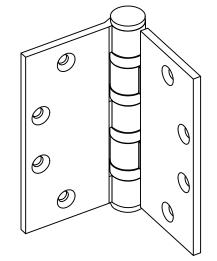
	Jamb Anchor Location	าร
	Single Openings	
Opening Size	Anchor Type	Anchor Spacing
Up to and including 4'0" x 8'0"	12 Ga. Masonry "T" Anchor	8" max. from sill, 6" max. from head rabbet, and 24" max. on center.
Up to and including 3'0" x 7'0"	Wire Masonry Anchor	12" max. from sill, 10" max. from head rabbet, and 16" max. on center.
Greater than 3'0" x 7'0" and up to and including 4'0" x 8'0"	Wire Masonry Anchor	12" max. from sill, 10" max. from head rabbet, and 14" max. on center.
	Paired Openings	
Opening Size	Anchor Type	Anchor Spacing
Up to and including 8'0" x 8'0"	12 Ga. Masonry "T" Anchor	8" max. from sill, 6" max. from head rabbet, and 24" max. on center.
Up to and including 7'0" x 7'0"	Wire Masonry Anchor	12" max. from sill, 10" max. from head rabbet, and 16" max. on center.
Greater than 7'0" x 7'0" and up to and including 8'0" x 8'0"	Wire Masonry Anchor	12" max. from sill, 10" max. from head rabbet, and 14" max. on center.

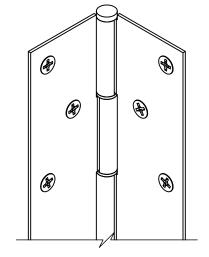
Paired openings utilizing wire masonry or masonry "T" anchors must use existing opening or weld to building head/sill anchoring as shown on sheet 5.



# CECO DOOR STORMPRO MULTI POINT LOCK DOOR ASSEMBLY - HURRICANE OR COMBINED HURRICANE AND TORNADO SHELTER PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR HURRICANE OR COMBINED HURRICANE AND TORNADO SHELTERS

PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR HURRICANE OR COMBINED HURRICANE AND TORNAL DESIGN PRESSURE: ±201 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH HINGE OPTIONS





### Butt Hinges

	-	
Manufacturer	Model/Series	Door Swing
McKinney	SP3386 or SP3786 Butt Hinges (4-1/2" x 4-1/2", 4-1/2" x 5", 4-1/2" x 6", 4-1/2" x 7", 4-1/2" x 8", 5" x 4-1/2", 5" x 5", 5" x 6", 5" x 7", & 5" x 8" - with or without NRP or QC options.)	In-Swing or Out-Swing

	Continuous Hinges	
Manufacturer	Model/Series	Door Swing
Markar	FM300, HG305, HG315, HG322, FM344, or FM600 Continuous Hinge (with or without CEPT, ETAP, EL, PoE, HT, Welded End Pin, Security Stud, or Tamper-proof Fastener options)	In-Swing or Out-Swing
	FM3500 or HG3505 Continuous Hinge (with or without CEPT, ETAP, EL, PoE, Welded End Pin, Security Stud, or Tamper-proof Fastener options)	In-Swing or Out-Swing
	FM300WT or HG305WT10 Wide Throw Continuous Hinge (with or without CEPT, ETAP, EL, PoE, HT, Welded End Pin, Security Stud, or Tamper-proof Fastener options)	In-Swing or Out-Swing
	FM/SC325, HG326, or HG329 Swing Clear Continuous Hinge (with or without HT, Welded End Pin, or Tamper-proof Fastener options)	In-Swing or Out-Swing
	FS301, FS302, HS303, HM304, HG306, or FS321 Continuous Hinge (with or without HT, Welded End Pin, or Tamper-proof Fastener option)	Out-Swing Only
	FS3501 or FS3502 Continuous Hinge (with or without Welded End Pin or Tamper-proof Fastener option)	Out-Swing Only
	FS/SC309, HG310, or HG311 Swing Clear Continuous Hinge (with or without HT, Welded End Pin, or Tamper-proof Fastener option)	Out-Swing Only



### Experience a safer and more open world

				DIV OF ASSA ABLOY DOOR GROUP LLC	9159 TELECOM DRIVE	MILIAN TN 28258				SIDE-SWINGING DOOK ASSEMBLY WITH MULII POINT LOCK HDW	FBC EIGHTH EDITION (2023) FLORIDA PRODUCT APPROVAL # 40296.7
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	OOR STORMPRO MULTI POINT LOCK DO					Ceco D
	SURE: ±201 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @					ASSA ABL
oor Closers			Seals			
Manufacturer	Model/Series	Notes	Manufacturer	Model/Series	Notes	1
rbin Russwin	DC8000 Series	Thru-bolt mounting of body to door only		S77, S771, S771x6, S772, S773, S776, S776x6, HS2000, HS2000xS44,		-
	7100SZ Series Closer/Holder or 7200 Series Closer/Holder	Threat side mounting only		HS2000xS88, 5110, P240, P241, P242, P243, P244, P260, P261, P262,		
rton	7500 Series or 7700PT Series Closer/Holder	Thru-bolt mounting of body to door only		P263, P264, P265, P266, P380, P381, P382, P384, P385, P386, P387, P388, P390, P391, P392, P393, P394, P396, P397, P398, P484, P490,		
	281 Series, 351 EHT Closer/Holder, or 2409 Series Closer/Holder	Thru-bolt mounting of body to door only		P491, P493, or P497 (with _NB, _S, _PK, _V, _R, _Q, SSE, SSR, SSS, SSN,		
rgent	2900 Series Closer/Holder	Threat side mounting only		_SPK, _P, CN, or _N Suffixes) - Adhesive Applied Perimeter Seals		
e	4400 Series	Thru-bolt mounting of body to door only		29045, 29344, 29346, 45041, 45061, 45100, 45137, 45175, 45250,		
or Operato	rs	·	Pemko	45400, 46062, 90041, 90062, 90100, 90137, 285, 290, 294, 296, 297, 303, 305, 306, 309, 312, 315, 316, 319, 321, 322, 330, 332, 345, 350,		
lanufacturer	Model/Series	Notes		351, 375, 379, 2815, 2891, 2892, 2893, 2902, 2903, 3151, 3452, 18041,		
hanulacturei	5600 Series, 5700 Series, 6000 Series, or 6300 Series	Threat side mounting only		18050, 18061, 18062, 18100, 18137, 18175, 18250, 18400, 28945,	Threat side mounting only	Experience a saf
rton	5800 Series	Thru-bolt mounting of body to door only		29310, 29313, 29324, 29326, 293100, 335, 336, 368, 307, 308, 56, or 57		and more open
	Sood Series	This bolt mounting of body to door only		(with _NB, _S, _PK, _V, _R, _Q, SSE, SSR, SSS, SSN, _SPK, _P, CN, _N or _M Suffixes) - Screw Applied Perimeter Seals		
or Holders		· · · · · · · · · · · · · · · · · · ·		346 Rain Drip	Threat side mounting only	S S
anufacturer	Model/Series	Notes	ц. 			
son	9 Series - Mechanical Stop/Holder	Thru holt mounting only	Thresholds		<b>.</b>	
aont		Thru-bolt mounting only	Manufacturer	Model/Series	Notes	
gent kwood	1560, 1561, or 1562 - Electromechanical 491S or 494S - Mechanical	Thru-bolt mounting only		173, 151, 270, 271, 272, 276, 573, 2715, 2716, 2748, 2749, 2750, 273x3, 273x4, 2746x6, or 274x4 (with or without _FG, _SS, or _SSFG Suffixes) - Saddle Thresholds	Floor Strike must be mounted directly to structural floor	PRODUCTS JOR GROUP LLC I DRIVE 8358 ROTECTIVE SYSTEM
or Coordina	ators			157, 158, 2727, or 766x5 (with or without _FG or _SS Suffixes) - Offset	Floor Strike must be mounted directly	
anufacturer	Model/Series	Notes		Saddle Thresholds	to structural floor	
kwood	576 1700 or 2600 Series (with or without 2601 Brackets or 1100 Carry Open	Outswing only Inswing only	Develo	273, 274, 278, 279, 2746, or 2755 (with or without _SS Suffix) - Half Saddle Thresholds	Floor Strike must be mounted directly to structural floor	PROT PROT PROT
	Bar option)	inswing only	Pemko	766 Offset Half Saddle Threshold	Floor Strike must be mounted directly to structural floor	
ectronic Pov	ver Transfer			2001, 2005, 2006, 2007, 2008, 2009, 2010, 2705, 273x224, 273x292,		<b>𝕂</b> ϨΫ⊢   ᢤ
lanufacturer	Model/Series	Notes		2746x292, 274x224, 274x292, 278x224, 278x292, 279x224, or 279x292	Floor Strike must be mounted directly	
	CEPT			(with or without _FG, _FGT, _FGP, _FGPK,_FGV, _P, _PK, _R, _SSFG,	to structural floor	SA AB SA AB SI AB MILAN
curitron	ICPT			_STC, _T, or _V Suffixes) - Latching Panic Exit Saddle Thresholds		NILL STEE
oor Position	Switches	lJ		18/1 or 14/1 - Plate Thresholds	Floor Strike must be mounted directly to structural floor	91: P
lanufacturer	Model/Series	Notes				л <b>— т</b> – 15
		3/4" or 1" diameter hole in edge or top	Door Viewers		Nu tu	
curitron	DPS-M	of door and frame	Manufacturer	Model/Series	Notes	
			Rockwood	620 or 622		
			Protection			
			Manufacturer	Model/Series	Notes	
			Rockwood	K1050 Kick Plate	For fire rated assemblies must be screw	
					applied	DATE DATE 
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## GENERAL NOTES

- 1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH ICC 500-2020, ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS -CHAPTER 8 (TEST METHODS FOR IMPACT AND PRESSURE TESTING).
- 2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- 3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. DESIGN PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH THE CURRENT EDITION OF ASCE 7 AND OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
- 4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR IN ACCORDANCE WITH ICC 500-2020 SECTIONS 805 & 806.
- 5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- 6. THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS IS OUTSIDE THE SCOPE OF THIS CERTIFICATION AND SHALL BE VERIFIED BY OTHERS. OPTIONAL WOOD BUCKS OR EMBEDMENT PLATES (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- 7. HARDWARE SHALL BE INSTALLED PER MANUFACTURERS' INSTRUCTIONS.
- 8. ALL BOLTS AND WASHERS (EXCLUDING INSTALLATION ANCHORS) SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, U.O.N.
- 9. ALL DISSIMILAR MATERIALS SHALL BE PAINTED, PLATED, OR OTHERWISE PROTECTED FROM CORROSION. ALL WOOD SHALL BE PROTECTED FROM EXPOSURE AND FROM CONTACT WITH DISSIMLAR MATERIALS.
- 10. COMPONENTS AND ACCESSORIES DESCRIBED HEREIN ARE PRESCRIPTIVE AND MAY NOT BE SUBSTITUTED IN ACCORDANCE WITH ICC 500-2020.
- 11. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATION ARE INTENDED.
- 12. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- 13. DOOR AND FRAME SHALL BE PERMANENTLY LABELED PER UL GUIDELINES CATEGORY ZHLL PRODUCT FOR USE IN WINDSTORM RATED ASSEMBLIES - ZHLL, Guideinfo.

# ADDITIONAL FRAME INFORMATION

- 1. BUILDING WALLS MUST BE DESIGNED TO SUPPORT AND SUSTAIN LOADS DEVELOPED BY THE DOOR AND FRAME ASSEMBLY AND TRANSFER LOADS TO THE BUILDING STRUCTURE.
- 2. ROUGH OPENING MATERIAL, BY OTHERS, MUST BE INSTALLED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE.
- 3. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- 4. ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN IN THE TABLE FOR EACH GROUP OF PRODUCTS.
- ANCHOR TYPES MAY BE MIXED WITHIN THE ASSEMBLY, BUT EACH INDIVIDUAL FRAME MEMBER MAY ONLY USE ONE TYPE OF ANCHOR.
- 6. IT IS RECOMMENDED THAT THE GAUGE OF THE FRAME BE EQUAL TO OR GREATER THAN THAT OF THE DOOR.

