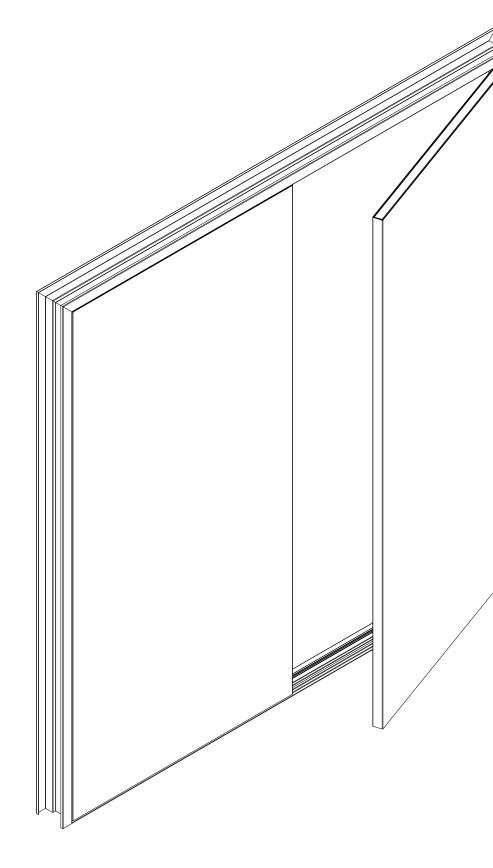
PRODUCT MEETS REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR TORNADO SHELTERS

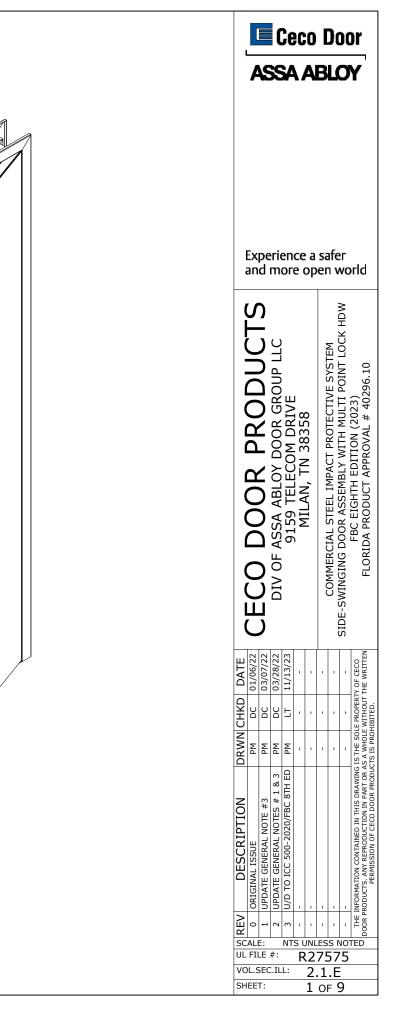
### **INSTRUCTIONS FOR USING THIS APPROVAL**

- **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, ACTIVE AND INACTIVE LATCHING HARDWARE FOR PANELS, AND GLAZING OPTIONS. 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.

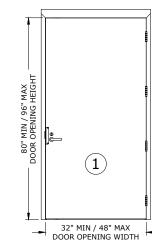
STEP 6: USE THE TABLE(S) ON SHEET 8 TO SELECT APPROVED OPTIONAL ACCESSORIES.

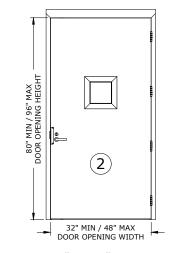
	SHEET INDEX							
SHEET #	DESCRIPTION							
1	COVER SHEET							
2	ASSEMBLY OPTIONS - SINGLE OPENINGS							
3	ASSEMBLY OPTIONS - PAIRED OPENINGS							
4	DOOR FRAME OPTIONS							
5	DOOR FRAME ANCHORING INFORMATION - EXISTING OPENING & WELD TO BUILDING STRUCTURE							
6	DOOR FRAME ANCHORING INFORMATION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

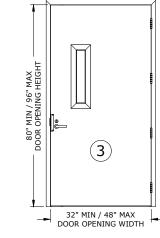


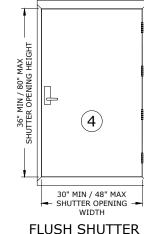


PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR TORNADO SHELTERS DESIGN PRESSURE: ±284 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH SINGLE OPENING - FLUSH AND GLAZED









FLUSH DOOR

GLAZED 10" X 10" VISION LITE

GLAZED 4" X 25" NARROW VISION LITE

FLUSH SHUTTER

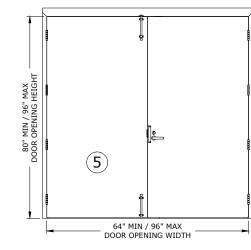
Assembly	Minimum Door	Minimum Frame		ted Openi mum	-	(inches) imum	Door Latching Hardware Description				Glazing <sup>1</sup>	UL ZHLA Assembly	
	Gauge	Gauge	Width	Height	Width	Height	Swing	Туре	Manufacturer	Model	Manufacturer	Model	No.
12	14	14	32	80	48	96	In-Swing or	Multi Point Lock	Sargent	FM7300 Series	– N/A	N/A	61
L L	14	14	32	80	48	90	Out-Swing		Corbin Russwin	FE6600 Series	N/A	N/A	<u>61</u>
2 <sup>2</sup>	14	14	32	80	48	96	In-Swing or	Multi Point Lock	Sargent	FM7300 Series	Vetrotech	Contraflam ULTIMAX 90 Storm Shelter or Keralite ULTRA 90	<u>61</u>
2	14	14	52	00	40	90	Out-Swing		Corbin Russwin	FE6600 Series	venotech	Storm Shelter, 10" x 10" Visible	01
22		14	32	80	48	96	In-Swing or	Multi Point Lock	Sargent FM730		Vetrotech	Contraflam ULTIMAX 90 Storm Shelter or Keralite ULTRA 90	61
5	14	14	32	80	48	90	Out-Swing		Corbin Russwin	FE6600 Series	vetrotech	Storm Shelter, 4" x 25" Visible	<u>61</u>
12	14	14	30	36	48	80	In-Swing or	Multi Point Lock	Sargent	FM6100 Series	N/A	N/A	46
4	14	14	30	30	48	80	Out-Swing		Corbin Russwin	FE6700 Series	N/A	IV/A	<u>46</u>

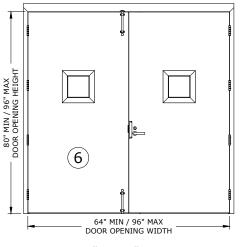
<sup>1</sup> Glazing must be factory installed.

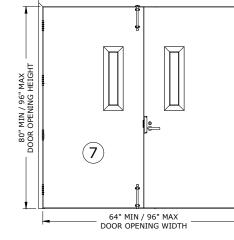
<sup>2</sup> Assembly may not comply with various government domestic sourcing regulations, trade agreements, and acquisition policies. Please contact your ASSA ABLOY Government Solutions Representative for more information.

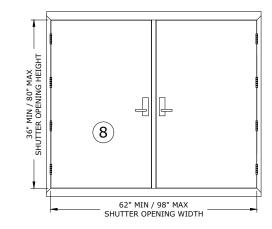
1			erio		ce	A	B	L		Y
	CECO DOOR PRODUCTS DIV OF ASSA ABLOY DOOR GROUP LLC 9159 TELECOM DRIVE MILAN, TN 38358 COMMERCIAL STEEL IMPACT PROTECTIVE SYSTEM SIDE-SWINGING DOOR ASSEMBLY WITH MULTI POINT LOCK HDW FBC EIGHTH EDITION (2023) FLORIDA PRODUCT APPROVAL # 40296.10									
DRWN CHKD DATE	DC 01/06/22	03/07/22	03/28/22	11/13/23		I		I	,	Y OF CECO THE WRITTEN
CHKD	DC	DC	DC	Ц				,		LE PROPER' : WITHOUT HIBITED.
DRWN	ΜЧ	ΜЧ	ΜЧ	РМ	1				,	IS THE SO S A WHOLE TS IS PROI
DESCRIPTION	0 ORIGINAL ISSUE	1 UPDATE GENERAL NOTE #3	2 UPDATE GENERAL NOTES # 1 & 3	3 U/D TO ICC 500-2020/FBC 8TH ED	1	1	1	1	1	THE INFORMATION CONTAINED IN THIS PARWING IS THE SOLE PROPERTY OF CECO DOOR PRODUCTS, ANY REPRODUCTION IN PARCH OK AS A WADE WITTHOUT THE WRITTEN PERMISSION OF CECO DOOR PRODUCTS IS PROHIBITED.
SC SC	ALI FII	E:	#:	NT	sı P	JNL 2	.ES 7	s 1 5 7	10 <sup>-</sup>	TED
VC	L.S	SEC	.IL	L:	1	2 2	.1	.E	5	
SH	SHEET: 2 OF 9									

PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR TORNADO SHELTERS DESIGN PRESSURE: ±284 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH PAIRED OPENING - FLUSH AND GLAZED









FLUSH DOOR

GLAZED 10" X 10" VISION LITE

GLAZED 4" X 25" NARROW VISION LITE

FLUSH SHUTTER

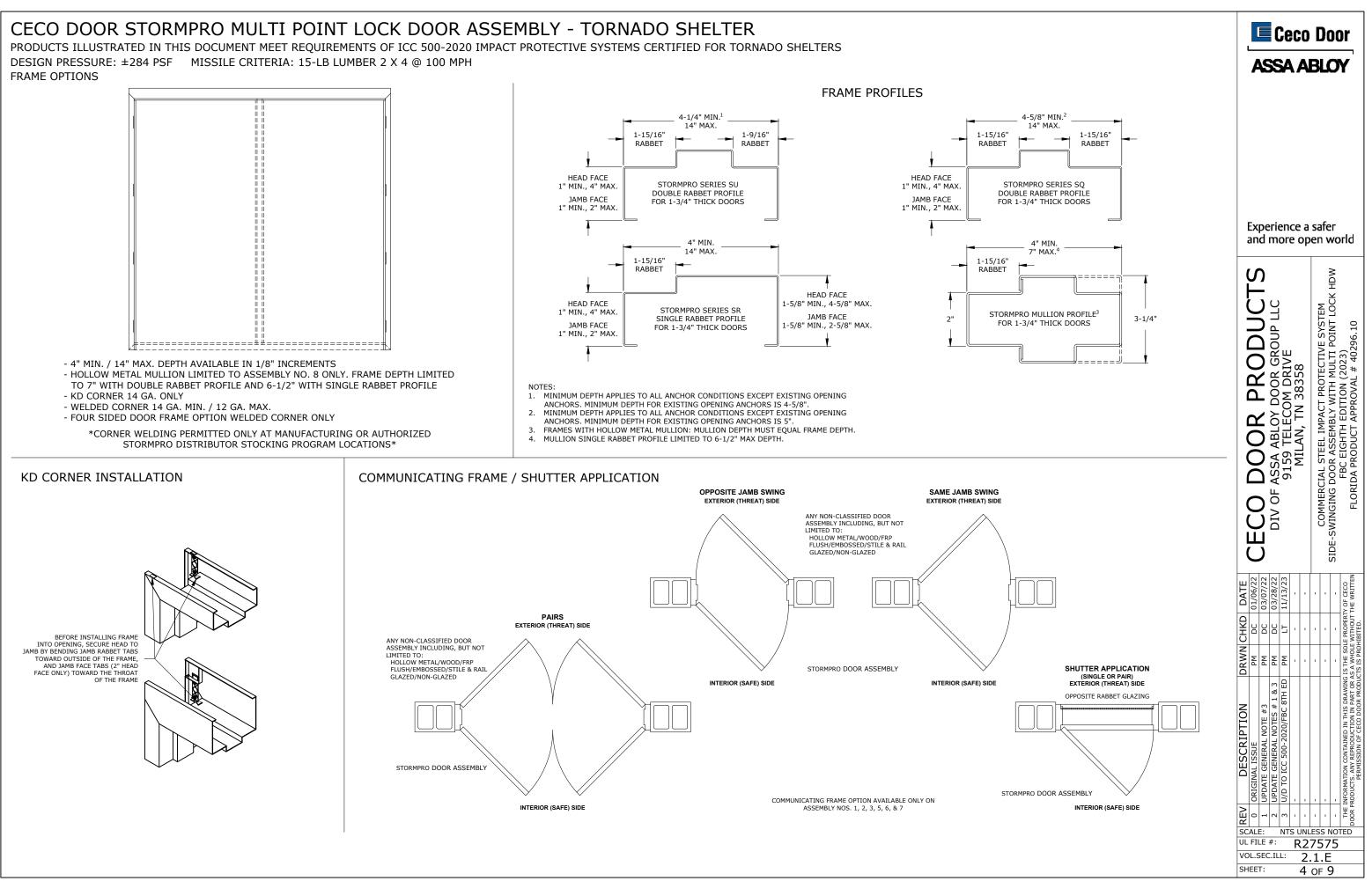
	Minimum	-	Permitt	ted Openir	ng Size (	inches) <sup>1</sup>	Door	la	tching Hardware [	Description		Glazing <sup>2</sup>	UL ZHLA Assembly				
Assembly		Frame	Mini	mum	Max	mum	Swing										
	Gauge	Gauge	Width	Height	Width	Height	Swing	Туре	Manufacturer	Model	Manufacturer	Model	No.				
								Multi Point Lock (Active)	Sargent	FM7300 Series							
							T. C. I.	Multi Foline Lock (Active)	Corbin Russwin	FE6600 Series							
5 <sup>3,4</sup>	14	14	64	80	96	96	In-Swing or Out-Swing		Sargent	988, 988-1, 988-2	N/A	N/A	<u>61</u>				
							out Swing	Surface Bolt (Inactive)	Corbin Russwin	988CR, 988CR-1, 988CR-2							
									Yale	988Y, 988Y-1, 988Y-2							
				Multi Deist Lock (Astive) Sargent FM7300 Series					Multi Point Lock (Active)	FM7300 Series							
							In-Swing or Out-Swing	Multi Foline Lock (Active)	Corbin Russwin	FE6600 Series							
6 <sup>3,4</sup>	14	14	64	80	96	96							Sargent	988, 988-1, 988-2	Vetrotech	Contraflam ULTIMAX 90 Storm Shelter or Keralite ULTRA 90 Storm Shelter, 10" x 10" Visible	<u>61</u>
												eat bring	Surface Bolt (Inactive)	Corbin Russwin	988CR, 988CR-1, 988CR-2		
													Yale	988Y, 988Y-1, 988Y-2			
								Multi Point Lock (Active)	Sargent	FM7300 Series							
							In Curing on		Corbin Russwin	FE6600 Series		Controllom III TIMAY 00 Charm Chalter or Karalita III TDA 00					
7 <sup>3,4</sup>	14	14	64	80	96	96	In-Swing or Out-Swing		Sargent	988, 988-1, 988-2	Vetrotech	Contraflam ULTIMAX 90 Storm Shelter or Keralite ULTRA 90 Storm Shelter, 4" x 25" Visible	<u>61</u>				
							out oning	Surface Bolt (Inactive)	Corbin Russwin	Corbin Russwin 988CR, 988CR-1, 988CR-2	Storm Sheller, 4 X ZS VISIDLE						
									Yale	988Y, 988Y-1, 988Y-2							
8 <sup>3</sup>	14	14 <sup>5</sup>	62	36	98	80	In-Swing or	Multi Point Lock	Sargent	FM6100 Series	N/A	N/A	46				
0	14	14	02	00	90	00	Out-Swing or		Corbin Russwin	FE6700 Series			<u>46</u>				

<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 2. <sup>2</sup> Glazing must be factory installed.

<sup>3</sup> Assembly may not comply with various government domestic sourcing regulations, trade agreements, and acquisition policies. Please contact your ASSA ABLOY Government Solutions Representative for more information. <sup>4</sup> Optional factory installed 10 ga. flat plate astragal attached to threat side active or inactive panel available.

<sup>5</sup> Welded 12 ga. hollow metal mullion required. Available as 4 sided frame only.

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			Ex	pe d	eri m	en or	ce e (	a ap	sa	afe 1 v	er vo	orld
eralite ULTRA 90 ole eralite ULTRA 90 le	UL ZHLA Assembly No. 61 61 61				DIV OF ASSA ABLOY DOOR GROUP LLC	9159 TELECOM DRIVE	MII AN TN 38358				SIDE-SWINGING DOOR ASSEMBLY WITH MULTI POINT LOCK HDW	FBC EIGHTH EDITION (2023) FLORIDA PRODUCT APPROVAL # 40296.10
	<u>46</u>	DATE	01/06/22	03/07/22	03/28/22	11/13/23	ı			I		OF CECO HE WRITTEN
		-	DC	Ы	DC	Ŀ						E PROPERTY WITHOUT TI IBITED.
		DRWN CHKD	ΡM	МЧ	Μd	Μd						IS THE SOL S A WHOLE TS IS PROH
		DESCRIPTION	0 ORIGINAL ISSUE	1 UPDATE GENERAL NOTE #3	2 UPDATE GENERAL NOTES # 1 & 3	3 U/D TO ICC 500-2020/FBC 8TH ED		-	1	1	1	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CECO DOOR PRODUCTS, SAN REPRODUCTION IN PART OR AS A WOLE WITHOUT THE WRITTEN PERMISSION OF CECO DOOR PRODUCTS IS PROHIBITED.
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			DL.S		C.IL	.L:		2		.E		





3/8" SMS/SELF DRILLING

5 SCREW THREAD

MIN. PROTRUSION

SCREW/UNC BOLT

1/4" MAX. SHIM ALLOWED FOR SINGLE

JAMB, 3/8" TOTAL FOR BOTH JAMBS

# 16 GA (0.053" MIN) EWA ANCHOR

TO SUIT

FRAME DEPTH

TO SUIT

FRAME DEPTH

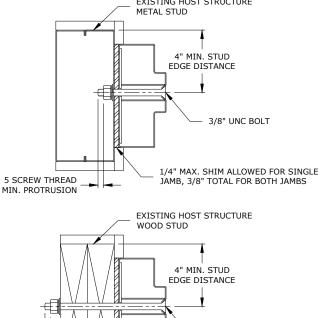
\* 1/4" MAX. THICK A-36 MIN STEEL SHIMS

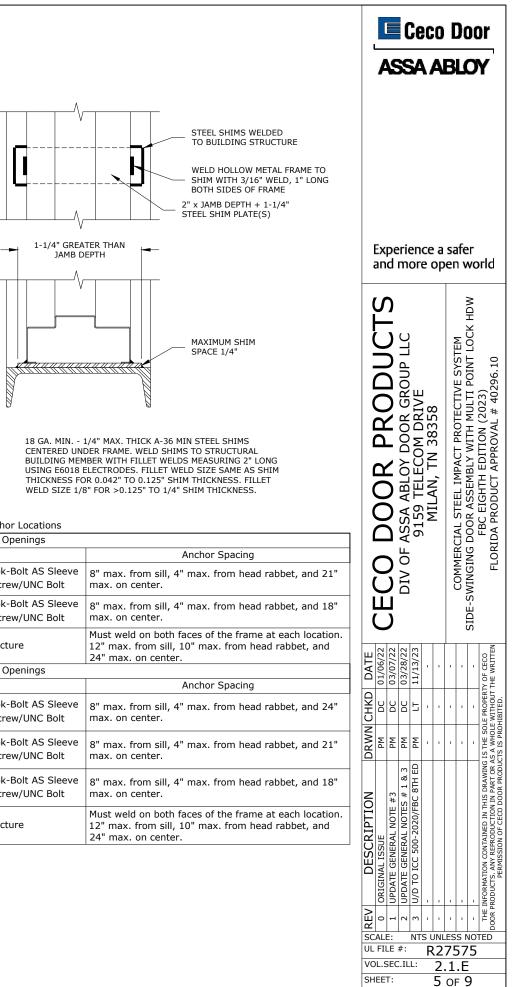
SUPPORTED BY SHIMS OR STRUCTURAL WALL.

\*FRAME BACKBENDS MUST BE FULLY

CENTERED UNDER FRAME

Δ 3/8" POWERS LOK-BOLT AS SLEEVE ANCHOR 1/4" MAX. SHIM ALLOWED FOR SINGLE 1-1/4" MIN. CONCRETE EMBEDMENT JAMB, 3/8" TOTAL FOR BOTH JAMBS EXISTING HOST STRUCTURE / EMBEDMENT PLATE 1/4" MIN. THICK STEEL (A36 MIN.) 1-1/8" MIN. PLATE EDGE DISTANCE





Jamb Anchor Locations

	Single Openings			
Opening Size	Anchor Type	Anchor Spacing		
Up to and including 4'0" x 8'0"	N/A	None required.		
	Paired Openings			
Opening Size	Anchor Type	Anchor Spacing		
Up to and including 6'0" x 7'0"	Existing Wall Anchors: Powers $\frac{3}{8}$ " Lok-Bolt AS Sleeve Anchor or $\frac{3}{8}$ " SMS/Self Drilling Screw/UNC Bolt	Minimum 4 anchors. On both sides of the door meeting edge centerline at 8" and 15" from door meeting edge centerline.		
Greater than 6'0" x 7'0" and up to and including 7'0" x 7'0"	Existing Wall Anchors: Powers $\frac{3}{8}$ " Lok-Bolt AS Sleeve Anchor or $\frac{3}{8}$ " SMS/Self Drilling Screw/UNC Bolt	Minimum 6 anchors. On both sides of the door meeting edge centerline at 8", 15", and 22" from door meeting edge centerline.		
Greater than 7'0" x 7'0" and up to and including 8'0" x 8'0"	Existing Wall Anchors: Powers $\frac{3}{8}$ " Lok-Bolt AS Sleeve Anchor or $\frac{3}{8}$ " SMS/Self Drilling Screw/UNC Bolt	Minimum 6 anchors. On both sides of the door meeting edge centerline at 8", 15", and 24" from door meeting edge centerline.		
Up to and including 8'0" x 8'0"	Welded to Building Structure	Minimum 3 weld locations and must weld both faces of the frame at each location. One at the door meeting edge centerline and on both sides 6" from the door meeting edge centerline.		

TTO

Head and/or Sill Anchor Locations

5 SCREW THREAD

MIN. PROTRUSION

For unequal width pairs, head/sill anchor quantity/spacing for each side of the door meeting edge centerline shall be determined as though the leaf size was part of an equal width pair.

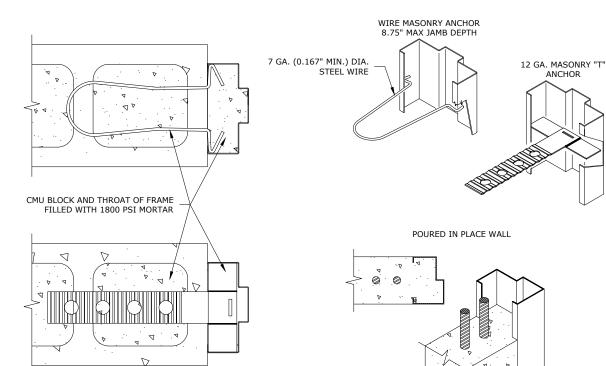
	Single Openings	
Opening Size	Anchor Type	
Up to and including 3'0" x 7'0"	Existing Wall Anchors: Powers $\frac{3}{8}$ " Lok-Bolt AS Sleeve Anchor or $\frac{3}{8}$ " SMS/Self Drilling Screw/UNC Bolt	8" ma max.
Greater than 3'0" x 7'0" and up to and including 4'0" x 8'0"	Existing Wall Anchors: Powers $\frac{3}{8}$ " Lok-Bolt AS Sleeve Anchor or $\frac{3}{8}$ " SMS/Self Drilling Screw/UNC Bolt	8" ma max.
Up to and including 4'0" x 8'0"	Welded to Building Structure	Must 12" m 24" m
	Paired Openings	
Opening Size	Anchor Type	
Up to and including 6'0" x 7'0"	Existing Wall Anchors: Powers $\frac{3}{8}$ " Lok-Bolt AS Sleeve Anchor or $\frac{3}{8}$ " SMS/Self Drilling Screw/UNC Bolt	8" ma max.
Greater than 6'0" x 7'0" and up to and including 7'0" x 7'0"	Existing Wall Anchors: Powers $\frac{3}{8}$ " Lok-Bolt AS Sleeve Anchor or $\frac{3}{8}$ " SMS/Self Drilling Screw/UNC Bolt	8" ma max.
Greater than 7'0" x 7'0" and up to and including 8'0" x 8'0"	Existing Wall Anchors: Powers $\frac{3}{8}$ " Lok-Bolt AS Sleeve Anchor or $\frac{3}{8}$ " SMS/Self Drilling Screw/UNC Bolt	8" ma max.
Up to and including 8'0" x 8'0"	Welded to Building Structure	Must 12" m 24" m

3/8" UNC BOLT

1/4" MAX. SHIM ALLOWED FOR SINGLE

JAMB, 3/8" TOTAL FOR BOTH JAMBS

PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR TORNADO SHELTERS DESIGN PRESSURE: ±284 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH FRAME ANCHORING OPTIONS - MASONRY ANCHORS



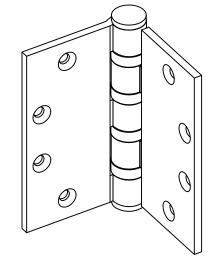
\*FRAME BACKBENDS MUST BE FULLY SUPPORTED BY STRUCTURAL WALL.

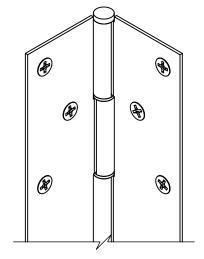
	Jamb Anchor Locatior Single Openings	15
Opening Size	Anchor Type	Anchor Spacing
Up to and including 4'0" x 8'0"	12 Ga. Masonry "T" Anchor	8" max. from sill, 6" max. from head rabbet, and 24' max. on center.
Up to and including 3'0" x 7'0"	Wire Masonry Anchor	12" max. from sill, 10" max. from head rabbet, 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.
1	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.



PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTEMS CERTIFIED FOR TORNADO SHELTERS DESIGN PRESSURE: ±284 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH HINGE OPTIONS





#### Butt Hinges

	5	
Manufacturer	Model/Series	Door Swing
	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



# CECO DOOR STORMPRO MULTI POINT LOCK DOOR ASSEMBLY - TORI

PRODUCTS ILLUSTRATED IN THIS DOCUMENT MEET REQUIREMENTS OF ICC 500-2020 IMPACT PROTECTIVE SYSTE DESIGN PRESSURE: ±284 PSF MISSILE CRITERIA: 15-LB LUMBER 2 X 4 @ 100 MPH OPTIONAL ACCESSORIES

of door and frame

#### Door Closers Manufacturer Model/Series Notes Corbin Russwin DC8000 Series Thru-bolt mounting of body to door only 7100SZ Series Closer/Holder or 7200 Series Closer/Holder Threat side mounting only Norton 7500 Series or 7700PT Series Closer/Holder Thru-bolt mounting of body to door only 281 Series, 351 EHT Closer/Holder, or 2409 Series Closer/Holder Thru-bolt mounting of body to door only Sargent 2900 Series Closer/Holder Threat side mounting only Thru-bolt mounting of body to door only 4400 Series Yale Door Operators Manufacturer Model/Series Notes 5600 Series, 5700 Series, 6000 Series, or 6300 Series Threat side mounting only Norton Thru-bolt mounting of body to door only 5800 Series Door Holders Manufacturer Model/Series Notes 9 Series - Mechanical Stop/Holder Rixson 980M, 990M, 991M, 996M, 997M, 998/998M, or 999M - Electromechanical Thru-bolt mounting only Sargent 1560, 1561, or 1562 - Electromechanical Thru-bolt mounting only 491S or 494S - Mechanical Rockwood Door Coordinators Model/Series Manufacturer Notes 576 Outswing only Rockwood 1700 or 2600 Series (with or without 2601 Brackets or 1100 Carry Open Inswing only

#### Bar option) Electronic Power Transfer Model/Series Manufacturer Notes CEPT Securitron ICPT Door Position Switches Manufacturer Model/Series Notes 3/4" or 1" diameter hole in edge or top Securitron DPS-M

DO SH	ELIER FOR TORNADO SHELTERS		ASSA A	
als				
anufacturer	Model/Series	Notes		
	S77, S771, S771x6, S772, S773, S776, S776x6, HS2000, HS2000xS44, HS2000xS88, 5110, P240, P241, P242, P243, P244, P260, P261, P262, P263, P264, P265, P266, P380, P381, P382, P384, P385, P386, P387, P388, P390, P391, P392, P393, P394, P396, P397, P398, P484, P490, P491, P493, or P497 (with _NB, _S, _PK, _V, _R, _Q, SSE, SSR, SSS, SSN, _SPK, _P, CN, or _N Suffixes) - Adhesive Applied Perimeter Seals		-	
ıko	29045, 29344, 29346, 45041, 45061, 45100, 45137, 45175, 45250, 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, 351, 375, 379, 2815, 2891, 2892, 2893, 2902, 2903, 3151, 3452, 18041, 18050, 18061, 18062, 18100, 18137, 18175, 18250, 18400, 28945, 29310, 29313, 29324, 29326, 293100, 335, 336, 368, 307, 308, 56, or 57 (with _NB, _S, _PK, _V, _R, _Q, SSE, SSR, SSS, SSN, _SPK, _P, CN, _N or M Suffixes) - Screw Applied Perimeter Seals	Threat side mounting only	Experience a and more op	
	346 Rain Drip	Threat side mounting only	່ ທ	N OF
resholds				×
anufacturer	Model/Series	Notes		ГОС
	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	PRODU COM DRIVE N 38358	IT PROTECTIVE SYSTEM WITH MULTI POINT LOCK HDW TION (2023) ROVAL # 40296.10
nko	157, 158, 2727, or 766x5 (with or without _FG or _SS Suffixes) - Offset Saddle Thresholds	Floor Strike must be mounted directly to structural floor		TECTIV MULTI (2023) - # 40
	273, 274, 278, 279, 2746, or 2755 (with or without _SS Suffix) - Half Saddle Thresholds	Floor Strike must be mounted directly to structural floor		ROTE TH MI N (2 N
	766 Offset Half Saddle Threshold	Floor Strike must be mounted directly to structural floor		IPACT PROT BLY WITH I EDITION ( APPROVAL
	2001, 2005, 2006, 2007, 2008, 2009, 2010, 2705, 273x224, 273x292, 2746x292, 274x224, 274x292, 278x224, 278x292, 279x224, or 279x292 (with or without _FG, _FGT, _FGP, _FGPK,_FGV, _P, _PK, _R, _SSFG, _STC, _T, or _V Suffixes) - Latching Panic Exit Saddle Thresholds	Floor Strike must be mounted directly to structural floor	A ABLOY A ABLOY A ILAN, TR	COMMERCIAL STEEL IMPACT MINGING DOOR ASSEMBLY W FBC EIGHTH EDIT FLORIDA PRODUCT APPR
	18/1 or 14/1 - Plate Thresholds	Floor Strike must be mounted directly to structural floor	ASSA 9159 MII	CIAL DOOI FBC
or Viewers				ING LOR
anufacturer	Model/Series	Notes		
kwood	620 or 622			
otection			Щ	SIDE-S'
anufacturer	Model/Series	Notes		SIL
kwood	K1050 Kick Plate	For fire rated assemblies must be screw applied	232222 2332222	
			DATE 01/06/22 03/07/22 03/28/22 11/13/23	
			CHKD DC DC DC	- - - - ROPERTY HOUT T
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			DRWN PM PM PM PM	
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			:ON E # 3 ES # 1 & : FBC 8TH E	THIS DR.
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			<ul> <li>DESCRIPTION</li> <li>ORIGINAL ISSUE</li> <li>UPDATE GENERAL NOTE #3</li> <li>UPDATE GENERAL NOTES # 1</li> <li>U/D TO ICC 500-2020/FBC 81</li> <li>-</li> </ul>	
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Manufacturer		Model/Series
Rockwood	620 or 622	
Protection		
Manufacturer		Model/Series

MS CERTIFIED FOR TORNADO SHELTERS			ASSA ABLOY	
Seals				
Manufacturer	Model/Series	Notes		
Pemko	S77, S771, S771x6, S772, S773, S776, S776x6, HS2000, HS2000xS44, HS2000xS88, 5110, P240, P241, P242, P243, P244, P260, P261, P262, P263, P264, P265, P266, P380, P381, P382, P384, P385, P386, P387, P388, P390, P391, P392, P393, P394, P396, P397, P398, P484, P490, P491, P493, or P497 (with _NB, _S, _PK, _V, _R, _Q, SSE, SSR, SSS, SSN, _SPK, _P, CN, or _N Suffixes) - Adhesive Applied Perimeter Seals		_	
	<ul> <li>29344, 29346, 45041, 45061, 45100, 45137, 45175, 45250,</li> <li>400, 46062, 90041, 90062, 90100, 90137, 285, 290, 294, 296, 297,</li> <li>3, 305, 306, 309, 312, 315, 316, 319, 321, 322, 330, 332, 345, 350,</li> <li>1, 375, 379, 2815, 2891, 2892, 2893, 2902, 2903, 3151, 3452, 18041,</li> <li>050, 18061, 18062, 18100, 18137, 18175, 18250, 18400, 28945,</li> <li>310, 29313, 29324, 29326, 293100, 335, 336, 368, 307, 308, 56, or 5</li> <li>th _NB, _S, _PK, _V, _R, _Q, SSE, SSR, SSS, SSN, _SPK, _P, CN, _N c</li> <li>Suffixes) - Screw Applied Perimeter Seals</li> </ul>	7	Experience a safer and more open world	
	346 Rain Drip	Threat side mounting only	_ N	N ∩
Thresholds				×
Manufacturer	Model/Series	Notes		ĽΟC
Pemko	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	PRODU DOOR GROUP L OM DRIVE V 38358	PROTECTIVE SYSTEM ITH MULTI POINT LOCK HDW ON (2023) OVAL # 40796.10
	157, 158, 2727, or 766x5 (with or without _FG or _SS Suffixes) - Offset Saddle Thresholds	Floor Strike must be mounted directly to structural floor		ECTIV IULTI 2023) # 40
	273, 274, 278, 279, 2746, or 2755 (with or without _SS Suffix) - Half Saddle Thresholds	Floor Strike must be mounted directly to structural floor		PACT PROTE 3LY WITH M EDITION (2
	766 Offset Half Saddle Threshold	Floor Strike must be mounted directly to structural floor		L>E
	2001, 2005, 2006, 2007, 2008, 2009, 2010, 2705, 273x224, 273x292, 2746x292, 274x224, 274x292, 278x224, 278x292, 279x224, or 279x292 (with or without _FG, _FGT, _FGP, _FGPK,_FGV, _P, _PK, _R, _SSFG, _STC, _T, or _V Suffixes) - Latching Panic Exit Saddle Thresholds	Floor Strike must be mounted directly to structural floor	SA ABLOY SA ABLOY MILAN, TI	COMMERCIAL STEEL IMPA WINGING DOOR ASSEMBL' FBC EIGHTH EE FI ORIDA PRODUCT DE
	18/1 or 14/1 - Plate Thresholds	Floor Strike must be mounted directly to structural floor	$\square \square {}^{6}$	CIAL S DOOI FBC
Door Viewers			о <sub>п</sub> о	ING LOR
Manufacturer	Model/Series	Notes		WO U
Rockwood	620 or 622			Ū Ū.
Protection			_   <u>円</u>	SIDE-
Manufacturer	Model/Series	Notes		SII
Rockwood	K1050 Kick Plate	For fire rated assemblies must be screw applied	122 122 122 122 122 122 122 122 122 122	
			DATE 01/06/22 03/07/22 03/28/22 11/13/23	
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			DRWN PM PM PM PM	IS THE S
				AWING
			TION DTE #3 DTES # 1 & 0/FBC 8TH E	IN THIS DR
			<ul> <li>DESCRIPTION</li> <li>ORIGINAL ISSUE</li> <li>UPDATE GENERAL NOTE #3</li> <li>UPDATE GENERAL NOTES # 1</li> <li>U/D TO ICC 500-2020/FBC 8T</li> <li>-</li> </ul>	
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			SCALE: NTS UNL	ESS NOTED
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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 1.2 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.

