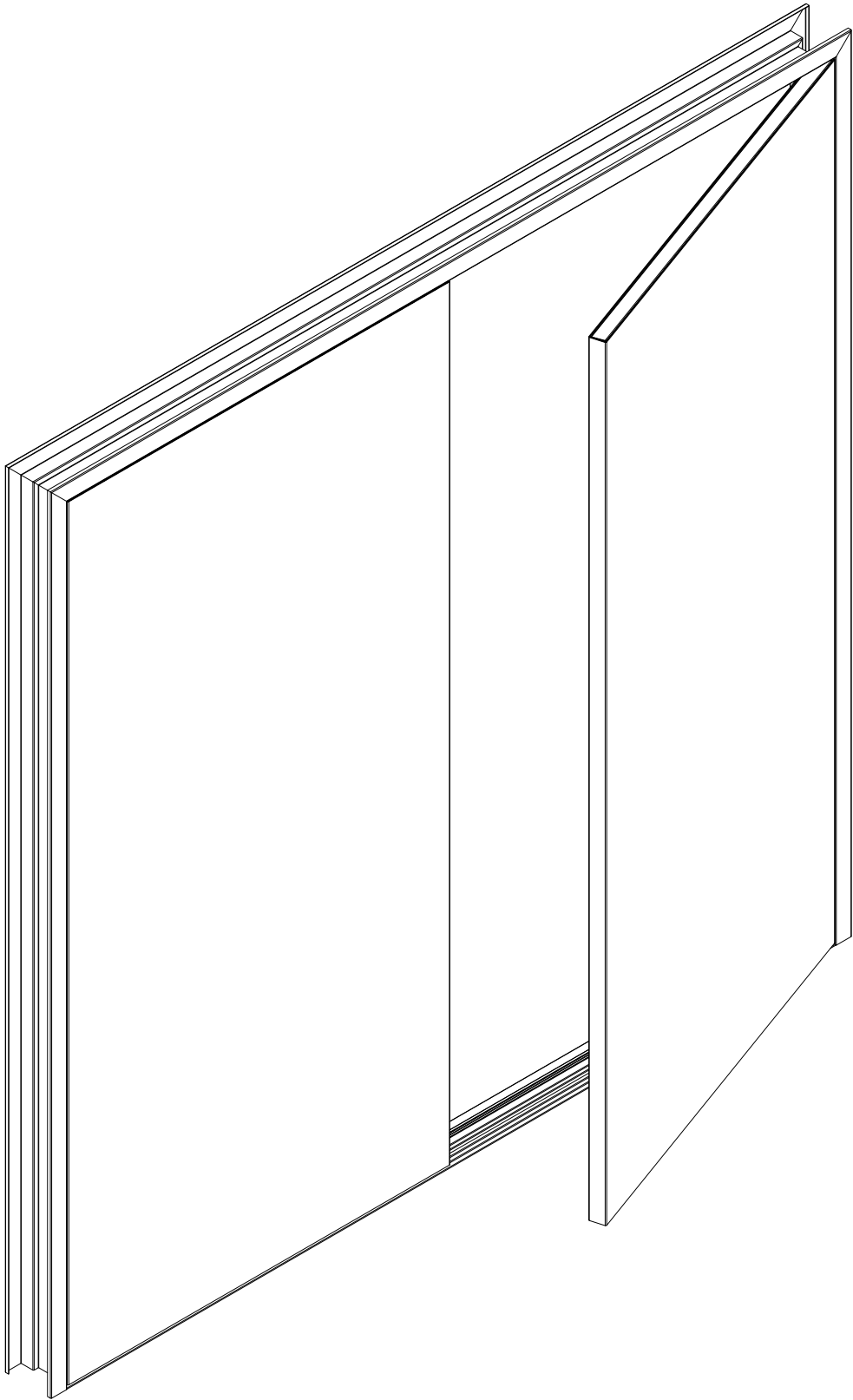


AADG, INC. THREE-SIDED DOOR FRAMES

PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ)

LARGE MISSILE IMPACT (LMI)



SHEET INDEX	
SHEET #	DESCRIPTION
1	COVER SHEET
2	DOOR FRAME CONFIGURATION OPTIONS
3	DOOR FRAME PROFILE AND CORNER OPTIONS
4	DOOR FRAME ANCHORING INFORMATION - EXISTING OPENING, WELDED TO BUILDING STRUCTURE, AND MASONRY
5	DOOR FRAME ANCHORING INFORMATION - WOOD AND METAL STUD
6	WATER INFILTRATION DOOR FRAME WEATHERSTRIPPING INFORMATION - SINGLES
7	WATER INFILTRATION DOOR FRAME WEATHERSTRIPPING INFORMATION - PAIRS
8	MANUFACTURERS' NOTES

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Milan, TN 38358

COMMERCIAL STEEL EXTERIOR THREE-SIDED DOOR FRAMES
FBC EIGHTH EDITION (2023)
FLORIDA PRODUCT APPROVAL # 47865.2

REV	DESCRIPTION	DRWN	CHKD	DATE
1	ORIGINAL ISSUE	PM	TR	2025-12-09
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SCALE: NTS UNLESS NOTED				
UL FILE #:		R41978		
VOL. SEC. ILL:		1.3.A		
SHEET:		1 OF 8		

AADG, INC. THREE-SIDED DOOR FRAMES

PRODUCTS ILLUSTRATED IN THIS DOCUMENT ARE QUALIFIED FOR LARGE AND SMALL MISSILE IMPACT.
PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.

Configuration		Model	Minimum Frame Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Impact ¹		Wall Type	Notes
				Positive	Negative	Width	Height	Speed (ft/s)	Energy (ft-lbs)		
Single	Outswing	BSC - Masonry	16	70	70	36	84	50	350	Masonry, Drywall w/ Steel Studs, Drywall w/ Wood Studs	
Single	Outswing	BSC - Masonry	16	50	50	36	84	50	350	Masonry, Drywall w/ Steel Studs, Drywall w/ Wood Studs	Where water infiltration is required ²
Pair	Outswing	BSC - Masonry	16	70	70	72	84	50	350	Masonry, Drywall w/ Steel Studs, Drywall w/ Wood Studs	
Pair	Outswing	BSC - Masonry	16	60	60	72	84	50	350	Masonry, Drywall w/ Steel Studs, Drywall w/ Wood Studs	Where water infiltration is required ³
Hinges		Butt	4-1/2" x 4-1/2" x 0.134" min. thick steel or stainless steel hinges, or any FBC approved hinges may be used. Any SDI member hinge locations may be used.								
		Continuous	Any FBC approved continuous hinge 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 CEPT, EPT, EPTL, EPT-SC, ICPT, and SEPT may be used. Maglocks may be used in addition to the hardware types listed above. Any surface mounted closer may be used.								

¹ 50 f/s - 350 ft-lbs impact meets ASTM E1996 Missile Level D.
² See Sheet 6 for water infiltration rated weatherstripping requirements.
³ See Sheet 7 for water infiltration rated weatherstripping requirements.



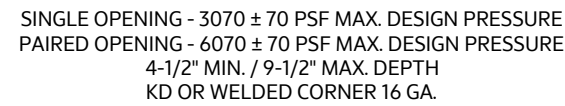
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UL FILE #: R41978				
VOL.SEC.ILL: 1.3.A				
SHEET: 2 OF 8				

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PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.



NOTES:

1. MINIMUM/MAXIMUM FRAME DEPTHS MAY BE LIMITED BY ANCHOR TYPE. CONSULT FACTORY OR SERVICE CENTER FOR LIMITATIONS.



KD CORNER
OUTSIDE FACE
WELD

INSIDE FACE WELD

Isometric view of a KD corner joint. A label points to the weld on the outside face of the corner, reading: KD CORNER OUTSIDE FACE WELD.

INSIDE FACE WELD

A technical diagram showing a full web weld connection between two I-beams. The beams are shown in a 3D perspective view. A weld is applied along the entire length of the web where the two beams meet. A leader line points to the weld with the text "FULL WEB WELD".

- NOTES:
1. KD CORNER FRAMES MAY BE WELDED IN THE FIELD. FRAME CORNERS MUST BE FULLY MECHANICALLY FASTENED PRIOR TO WELDING.
 - 1.1. ONLY OUTSIDE FACE WELD OR OUTSIDE FACE AND FULL WEB WELD.
 2. FULL WEB WELD INCLUDES THE SEAMS BETWEEN HEAD AND JAMB RABBETS, STOPS, AND SOFFITS.
 3. INSIDE FACE WELDS (REMOVAL OF CORNER TAB) MUST BE PERFORMED AT MANUFACTURING OR AUTHORIZED DISTRIBUTOR LOCATION ONLY.

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COMMERCIAL STEEL EXTERIOR THREE-SIDED DOOR FRAMES
FBC EIGHTH EDITION (2023)
FLORIDA PRODUCT APPROVAL # 478652

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UL FILE #: R41978

VOL.SEC.ILL: 1.3A

SHEET: 3 OF 8

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PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.



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CMU BLOCK AND THROAT OF FRAME FILLED WITH 1800 PSI MORTAR

Snap-in type

WIRE MASONRY ANCHOR

CMU BLOCK AND THROAT OF FRAME FILLED WITH 1800 PSI MORTAR

Snap-in type

MASONRY "T" ANCHOR (WELDED)

CMU BLOCK AND THROAT OF FRAME FILLED WITH 3000 PSI MORTAR

Snap-in type

MASONRY "T" ANCHOR

CMU BLOCK AND THROAT OF FRAME FILLED WITH 3000 PSI MORTAR

Bend in Field to fit.

Snap-in type

MASONRY "T" ANCHOR (ADJUSTABLE)

CMU BLOCK AND THROAT OF FRAME FILLED WITH 3000 PSI MORTAR

Welded

YOKE AND STRAP MASONRY ANCHOR

POURED IN PLACE WALL

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SCALE: _____ NTS UNLESS NOTED

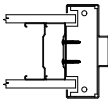
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VOL.SEC.ILL: **1.3.A**

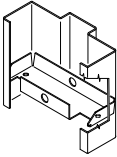
SHEET: **4 OF 8**

AADG, INC. THREE-SIDED DOOR FRAMES

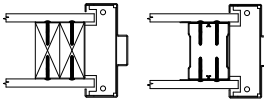
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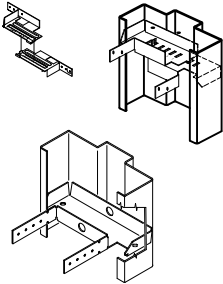
LOOSE ANCHORS MUST BE WELDED TO EACH
FRAME FACE WITH ½" MIN WELDS.
2 - #14 X 1" MIN. SCREWS REQUIRED PER ANCHOR
CENTERED ON STUD
MIN SCREW SPACING: 0.75"
18 GA MIN STEEL STUDS



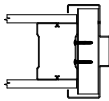
LOOSE METAL STUD ANCHOR



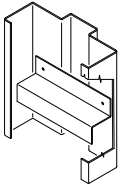
SINGLE PIECE OR ADJUSTABLE LOOSE ANCHOR
LOOSE ANCHORS MUST BE WELDED TO EACH
FRAME FACE WITH ½" MIN WELDS.
4 - #8 X 1" MIN. SCREWS REQUIRED PER ANCHOR
WOOD STUD MIN EDGE DISTANCE: 0.524"
METAL STUD MIN EDGE DISTANCE: 0.328"
(METAL STUD 18 GA MIN)



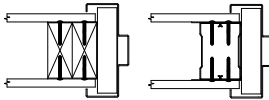
LOOSE WOOD STUD ANCHOR
(MAY BE USED WITH WOOD OR METAL STUD)



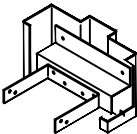
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CENTERED ON STUD
MIN SCREW SPACING: 0.75"
18 GA MIN STEEL STUDS



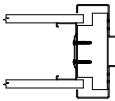
WELDED RECESSED METAL STUD ANCHOR



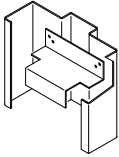
4 - #8 X 1" MIN. SCREWS REQUIRED PER ANCHOR
WOOD STUD MIN EDGE DISTANCE: 0.524"
METAL STUD MIN EDGE DISTANCE: 0.328"
(METAL STUD 18 GA MIN)



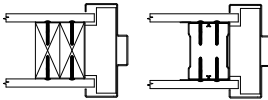
WELDED RECESSED WOOD STUD ANCHOR
(MAY BE USED WITH WOOD OR METAL STUD)



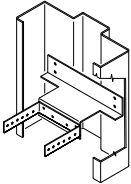
2 - #14 X 1" MIN. SCREWS REQUIRED PER ANCHOR
CENTERED ON STUD
MIN SCREW SPACING: 0.75"
18 GA MIN STEEL STUDS



WELDED FLUSH METAL STUD ANCHOR



4 - #8 X 1" MIN. SCREWS REQUIRED PER ANCHOR
WOOD STUD MIN EDGE DISTANCE: 0.524"
METAL STUD MIN EDGE DISTANCE: 0.328"
(METAL STUD 18 GA MIN)



WELDED FLUSH WOOD STUD ANCHOR
(MAY BE USED WITH WOOD OR METAL STUD)

Jamb Anchor Locations

Single Openings		
Opening Size	Anchor Type	Anchor Spacing
		Up to and including 70 psf
Up to and including 3'0" x 7'0"	Wood or Metal Stud Anchors	6" max from each end 28" max on center
Paired Openings		
Opening Size	Anchor Type	Anchor Spacing
		Up to and including 70 psf
Up to and including 6'0" x 7'0"	Wood or Metal Stud Anchors	6" max from each end 22" max on center

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SHEET: 5 OF 8				

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PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.

346C

S771

312

315CN

315CN

S771

P381 AND P385
12" LONG P381 APPLIED ON SILL
STARTING AT LOCK JAMB.
REMAINDER OF SILL USES P385.

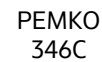
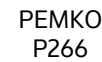
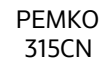
SINGLE DOOR



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COMMERCIAL STEEL EXTERIOR THREE-SIDED
FBC EIGHTH EDITION (2023)
FLORIDA PRODUCT APPROVAL # 47

[illegible]

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS. LARGE MISSILE IMPACT IS QUALIFIED FOR MISSILE LEVEL D OR E AS DEFINED IN TABLE ON SHEET 2.
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 ASCE 7-22 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.
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 (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS OTHERWISE NOTED.
8. ALL COLD ROLLED STEEL SHALL BE A568/A568M AND ALL STAINLESS STEEL SHALL BE ASTM A480/A480M, UNLESS OTHERWISE NOTED.
9. HARDWARE SHALL BE INSTALLED PER MANUFACTURERS' INSTRUCTIONS.
10. 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, UNLESS OTHERWISE NOTED.
11. PLASTIC COMPONENTS USED WITHIN THE HVHZ MUST MEET ALL APPLICABLE FIRE/SMOKE/UV PERFORMANCE REQUIREMENTS AS SET FORTH IN THE ABOVE-NOTED BUILDING CODE AND SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AS REQUIRED.
12. ALL DISSIMILAR MATERIALS SHALL BE PAINTED, PLATED, OR OTHERWISE PROTECTED FROM CORROSION. ALL WOOD SHALL BE PROTECTED FROM EXPOSURE AND FROM CONTACT WITH DISSIMILAR MATERIALS.
13. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATION ARE INTENDED.
14. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
15. DOOR AND FRAME SHALL BE PERMANENTLY LABELED PER UL GUIDELINES CATEGORY ZHLL - PRODUCT FOR USE IN WINDSTORM RATED ASSEMBLIES, ZHDL - WINDSTORM RATED SWINGING DOOR COMPONENTS - DOOR FRAMES.
[ZHLL.Guideinfo](#)
[ZHDL.Guideinfo](#)
16. THESE COMPONENT FRAMES ARE APPROVED AS AN EQUAL ALTERNATE FOR USE IN SINGLE OR DOUBLE OUT-SWINGING COMMERCIAL STEEL EXTERIOR DOOR ASSEMBLIES. THE DESIGN PRESSURE OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT OF DOOR, FRAME, OR LATCHING HARDWARE.

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. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
5. WOOD DENSITY, G = 0.55.
6. ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN IN THE TABLE FOR EACH GROUP OF PRODUCTS.
7. SUBSTITUTION OF COMPONENTS MUST BE IN COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODE.
8. IT IS RECOMMENDED THAT THE GAUGE OF THE FRAME BE EQUAL TO OR GREATER THAN THAT OF THE DOOR.

ALLOWABLE JOB SITE PREPARATIONS/MODIFICATIONS

THE FOLLOWING JOB SITE PREPARATIONS TO FRAMES SHALL BE PERMITTED.

1. ROUND HOLES FOR SURFACE-APPLIED HARDWARE/ACCESSORIES, HOLES FOR LISTED FIRE PINS, AND 1 IN. MAX DIA. HOLES FOR DOOR POSITION SWITCHES.
 - 1.1. ALL HOLES TO BE PER HARDWARE/ACCESSORY MANUFACTURER'S TEMPLATE/INSTALLATION INSTRUCTIONS.
 - 1.2. FRAME MUST BE PROPERLY REINFORCED FOR HARDWARE FROM MANUFACTURING LOCATION PER LISTING.

THE FOLLOWING JOB SITE MODIFICATIONS TO FRAMES SHALL BE PERMITTED.

1. INSTALLATION OF WELDED STEEL FILLER PLATES OF EQUAL OR GREATER THICKNESS TO THE AS-CERTIFIED DOOR AND/OR FRAME DESIGN. FILLER PLATES MUST BE FULLY WELDED WITH NO CLEARANCES.
2. HOLES UP TO AND INCLUDING 0.5 IN. DIA. (OR EQUIVALENT 0.8 IN.² AREA) MAY BE FULLY WELDED.

ADDITIONAL WEATHERSTRIPPING INFORMATION

WHERE WATER INFILTRATION IS NOT REQUIRED, THE FOLLOWING PEMKO WEATHERSTRIP OR ANY SCREW OR ADHESIVE APPLIED WEATHERSTRIPPING/SEALS MAY BE USED.

Seals	
Manufacturer	Model/Series
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
	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
	346 Rain Drip
Thresholds	
Manufacturer	Model/Series
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
	157, 158, 2727, or 766x5 (with or without _FG or _SS Suffixes) - Offset Saddle Thresholds
	273, 274, 278, 279, 2746, or 2755 (with or without _SS Suffix) - Half Saddle Thresholds
	766 Offset Half Saddle Threshold
	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
	18/1 or 14/1 - Plate Thresholds

REV	DESCRIPTION	DRWN	CHKD	DATE
1	ORIGINAL ISSUE	PM	TR	2025-12-09
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SCALE:	NTS UNLESS NOTED
UL FILE #:	R41978
VOL. SEC. ILL:	1.3.A
SHEET:	8 OF 8

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FBC EIGHTH EDITION (2023)
FLORIDA PRODUCT APPROVAL # 47865.2