

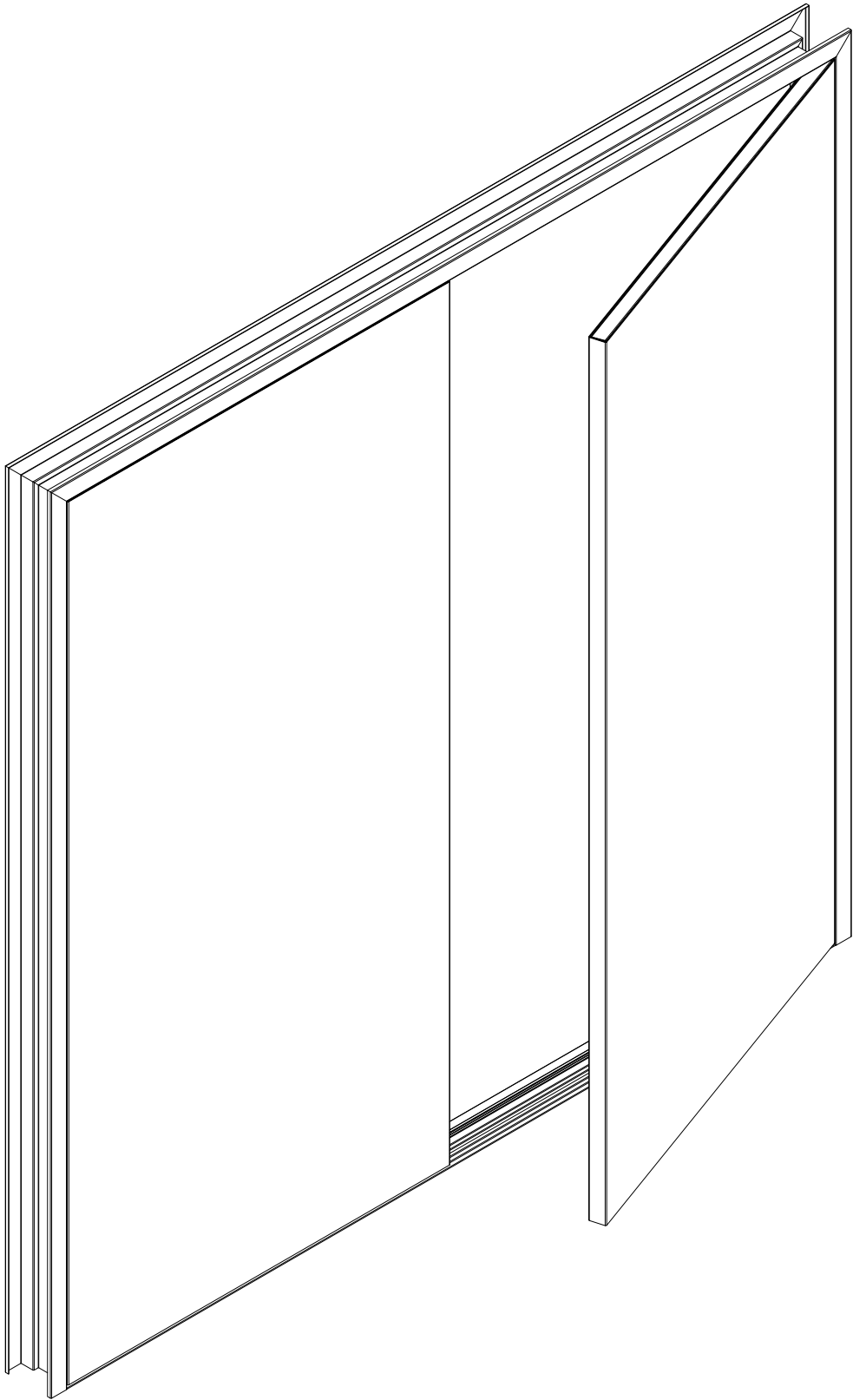
AADG, INC. FLUSH OR EMBOSSED PANEL DOORS
PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ)
LARGE MISSILE IMPACT (LMI)

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AADG, Inc.
9159 Telecom Drive
Milan, TN 38358

COMMERCIAL STEEL EXTERIOR DOORS
FBC EIGHTH EDITION (2023)
FLORIDA PRODUCT APPROVAL # 47865.1



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THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CECO DOOR PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CECO DOOR PRODUCTS IS PROHIBITED.				
SCALE: NTS UNLESS NOTED				
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AADG, INC. FLUSH OR EMBOSSED PANEL DOORS

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

Door Configuration		Door Series ¹	Minimum Door Gauge	Maximum Design Pressure (psf)		Maximum Door Opening (inches)		Impact ²		Latching Hardware Description		
				Positive	Negative	Width	Height	Speed (ft/s)	Energy (ft-lbs)	Type	Latch Throw Min ³ (in)	Latch Strength Min (lbf)
Single	Outswing	BSC	19	70	70	36	84	50	350	Rim Exit	RE - 3/4	735
Single	Outswing	BSC	19	70	70	36	84	50	350	Mortise Lock W/ Deadbolt Function	CYL - 1/2, ML - 3/4, DB - 1	735
Pair	Outswing	BSC	19	70	70	72	84	50	350	Cylindrical Lock & Cylindrical Deadbolt		
										Rim Exit x Rim Exit ⁴	RE - 3/4	735
Pair	Outswing	BSC	19	70	70	72	84	50	350	Mortise Lock W/ Deadbolt Function x Surface Bolts	CYL - 1/2, ML - 3/4, DB - 1, SB - 1-1/4	490
										Cylindrical Lock & Cylindrical Deadbolt x Surface Bolts		
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. Viewers with 1" and smaller hole preparation may be used. Any surface mounted closer may be used.									

¹ Door series available with the following options:
Door Material - CRS or Galv.
3'0"x7'0" max embossed panel designs are permitted for Polystyrene core. Honeycomb core flush panel only.
Core Construction: BSC - Polystyrene or Honeycomb Kraft Paper
² 50 f/s - 350 ft-lbs impact meets ASTM E1996 Missile Level D.
³ CYL - Cylindrical Lock, ML - Mortise Lock, DB - Deadbolt/Deadlock, RE - Rim Exit, SB - Surface Bolts.
⁴ Hollow Metal or Hardware Mullion required.



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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 DISSIMLAR 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 SHALL BE PERMANENTLY LABELED PER UL GUIDELINES CATEGORY ZHLL - PRODUCT FOR USE IN WINDSTORM RATED ASSEMBLIES OR ZHCW - WINDSTORM RATED SWINGING DOOR COMPONENTS - SWINGING DOORS, EXTERIOR.
[ZHLL.Guideinfo](#)
[ZHCW.Guideinfo](#)
16.

THESE COMPONENT DOORS 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.

ALLOWABLE JOB SITE PREPARATIONS/MODIFICATIONS

THE FOLLOWING JOB SITE PREPARATIONS TO DOORS SHALL BE PERMITTED.

1.

ROUND HOLES FOR SURFACE-APPLIED HARDWARE/ACCESSORIES, FUNCTION HOLES FOR MORTISE AND/OR CONCEALED HARDWARE, MOUNTING/FUNCTION HOLES FOR ACCESS CONTROL TRIM, HOLES FOR LISTED FIRE PINS, 1 IN. MAX DIA. HOLES FOR VIEWERS, 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.

DOOR MUST BE PROPERLY REINFORCED FOR HARDWARE FROM MANUFACTURING LOCATION PER LISTING.

THE FOLLOWING JOB SITE MODIFICATIONS TO DOORS SHALL BE PERMITTED.

1.

INSTALLATION OF WELDED STEEL FILLER PLATES OF EQUAL OR GREATER THICKNESS TO THE AS-CERTIFIED DOOR 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.

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