FL #	FL5684-R13
Application Type	Revision
Code Version	2023
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Clopay Building Products Company
Address/Phone/Email	8585 Duke Blvd. Mason, OH 45040 (513) 770-4641 jwheeler@clopay.com
Authorized Signature	Jim Wheeler jwheeler@clopay.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Exterior Doors
Subcategory	Sectional Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Jim Wheeler
Florida License	PE-91932
Quality Assurance Entity	Intertek Testing Services NA, Inc. - QA Entity
Quality Assurance Contract Expiration Date	12/31/2030
Validated By	Gary Pfuehler ✓ Validation Checklist - Hardcopy Received
Certificate of Independence	FL5684_R13_COI_Certification_of_Independence_of_Evaluation_Entity-Gary_Pfuehler.pdf FL5684_R13_COI_Statement_of_Independence_of_Evaluation_Entity_JDW.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ANSI/DASMA 108	2005
ANSI/DASMA 115	2005
ASTM E330	2002

TAS 201	1994
TAS 202	1994
TAS 203	1994

Equivalence of Product Standards Certified By: Florida Licensed Professional Engineer or Architect
FL5684_R13_Equiv_20200812 - FBC - ASTM 1886-1996 equiv.pdf
FL5684_R13_Equiv_20230712 - FBC - ASTM E330 equiv_s.pdf

Sections from the Code

Product Approval Method: Method 1 Option D

Date Submitted	10/17/2025
Date Validated	10/20/2025
Date Pending FBC Approval	10/22/2025
Date Approved	12/09/2025

Summary of Products

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FL #	Model, Number or Name	Description
5684.21	21 W8-09 DSIU-1F171: 9200, 9201, 9203, HDP20, HDPF20, HDPL20, 7200, 7201, 7203, 8200, 8201, 8203	Double-skin Insulated PUR (exterior skin 27 ga. min.; interior skin 27 ga. min.) Single-Car (up to 9'0" wide) WINDCODE® W8 Garage Door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +48 PSF/-60 PSF **Other:** Max. Wind Speed (V_ult): 170 MPH. Optional Impact Resistant Glazing available.		**Installation Instructions** FL5684_R13_II_104185-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL5684_R13_AE_CBPC_111215-A.pdf Created by Independent Third Party: No
5684.22	22 W8-16 DSIU-1F171: 9200, 9201, 9203, HDP20, HDPF20, HDPL20, 7200, 7201, 7203, 8200, 8201, 8203	Double-skin Insulated PUR (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double-Car (9'2" to 16'2" wide) WINDCODE® W8 Garage Door with Optional Impact-Resistant Lites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +46.6 PSF/-52 PSF **Other:** Max. Wind Speed (V_ult): 170 MPH. Optional Impact Resistant Glazing available.		**Installation Instructions** FL5684_R13_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL5684_R13_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.23	23 W8-18 DSIU-1F171: 9200, 9201, 9203, HDP20, HDPF20, HDPL20, 7200, 7201, 7203, 8200, 8201, 8203	Double-skin Insulated PUR (exterior skin 27 ga. min.; interior skin 27 ga. min.) 16'4" to 18'2" wide WINDCODE® W8 Garage Door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +46 PSF/-50 PSF **Other:** Max. Wind Speed (V_ult): 170 MPH.		**Installation Instructions** FL5684_R13_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL5684_R13_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.24	24 W8-09 DSIUO-1K479: Canyon Ridge/Glenmoor	Double Skin Insulated PUR (exterior skin 27 ga. min.; interior skin 27ga. min.) with Overlay Single-Car (up to 9’0” wide)

		WINDCODE® W8 Garage Door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +54 PSF/-60 PSF **Other:** Max. Wind Speed (V_ult): 170 MPH.		**Installation Instructions** FL5684_R13_II_104277-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL5684_R13_AE_CBPC_111215-A.pdf Created by Independent Third Party: No
5684.25	25 W8-16 DSIUO-1K479: Canyon Ridge/Glenmoor	Double Skin Insulated PUR (exterior skin 27 ga. min.; interior skin 27ga. min.) with Overlay Double-Car (9’2” to 16’2” wide) WINDCODE® W8 Garage Door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +46.6 PSF/-52 PSF **Other:** Max. Wind Speed (V_ult): 170 MPH.		**Installation Instructions** FL5684_R13_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL5684_R13_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.26	26 W8-12 C-DSIU-1D477: 3717, C7X17, 3718, C7X18, 3720, C7X20, 240U, 3722, C0X22	Double-skin Insulated PUR (exterior skin 27 ga. min.; interior skin 27 ga. min.) WINDCODE® W8 Sectional Door, up to 12’2” wide, with optional Impact Resistant Glazing
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +52 PSF/-58 PSF **Other:** Max. Wind Speed (V_ult): 170 MPH. Optional Impact Resistant Glazing available.		**Installation Instructions** FL5684_R13_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL5684_R13_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.27	27 W8-16 C-DSIU-1F477: 3720, C7X20, 240U, 3722, C0X22	Double-skin Insulated PUR (exterior skin 27 ga. min.; interior skin 27 ga. min.) WINDCODE® W8 Sectional Door, up to 16’2” wide, with optional Impact Resistant Glazing
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +50 PSF/-56 PSF **Other:** Max. Wind Speed (V_ult): 170 MPH. Optional Impact Resistant Glazing available.		**Installation Instructions** FL5684_R13_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL5684_R13_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.28	28 W7-16 PAN-2F153: 73, 75, 84A, 94, 98, 42, 42B, 48, 48B, 4F, 4RST, 6RST	Steel Pan (min. 25 ga.) Double Car (9’2” to 16’2” wide) WINDCODE® W7 Garage Door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +42/-48 **Other:**		**Installation Instructions** FL5684_R13_II_104857-Rev00_s.pdf Verified By: James D. Wheeler FL PE 91932 Created by Independent Third Party: No **Evaluation Reports** FL5684_R13_AE_CBPC_111215-A.pdf Created by Independent Third Party: No

Product Approval Accepts:

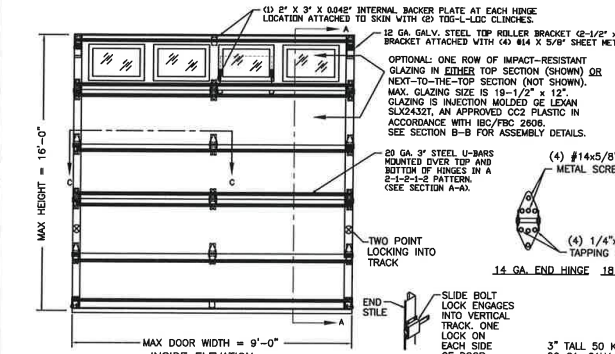
BRAND	MODEL NUMBERS		
CLOPAY	9200, HDP20	9203, HDPL20	9201, HDPF20
HOLMES	7200	7203	7201
IDEAL	8200	8203	8201
	SHORT PANEL	LONG PANEL	FLUSH PANEL

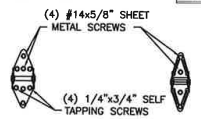
TABLE 1

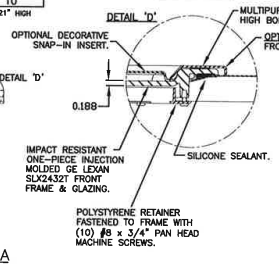
DOOR HEIGHT	NUMBER OF SECTIONS*
6'0" TO 7'0"	4
7'6" TO 8'9"	5
9'0" TO 10'6"	6
10'9" TO 12'3"	7
12'6" TO 14'0"	8
14'3" TO 15'9"	9
16'0"	10

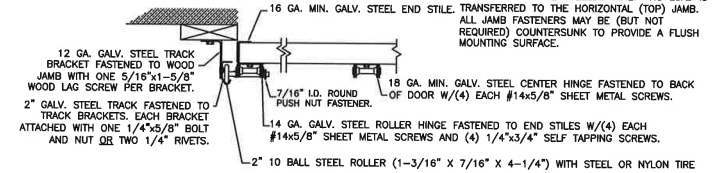
* SECTION ARE EITHER 18" OR 21" HIGH

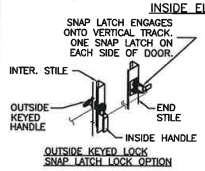
REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
00	–	04/22/09	–	–	INITIAL RELEASE.
01	–	12/15/11	–	–	UPDATED WIND SPEEDS FOR ASCE7–10.
02	–	3/5/20	EN2736	SH	REVISED MAX WINDOW SIZE AND TITLE BLOCK
03	–	8/4/20	–	SH	REMOVED WIND CHART

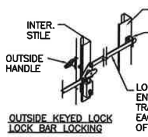


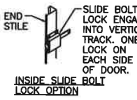


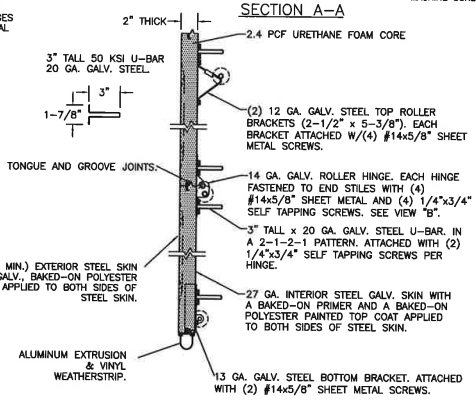










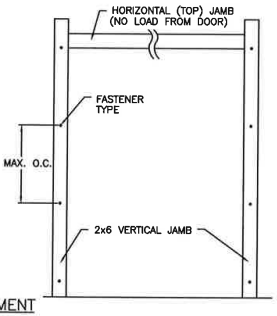


PREPARATION OF JAMBS BY OTHERS

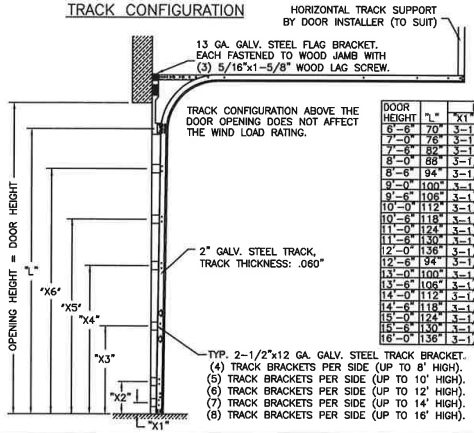
NOTE: THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

JAMB TO SUPPORTING STRUCTURE ATTACHMENT

NOTES:
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
2. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
3. A 1/3 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.



TRACK CONFIGURATION



DOOR HEIGHT	"L"	BRACKET PLACEMENTS "X1"	"X2"	"X3"	"X4"	"X5"	"X6"	"X7"	"X8"
6'-6"	70"	3-1/2"	10"	33"	60"	–	–	–	–
7'-0"	76"	3-1/2"	10"	38"	66"	–	–	–	–
7'-6"	82"	3-1/2"	10"	34"	58"	–	–	–	–
8'-0"	88"	3-1/2"	10"	34"	58"	–	–	–	–
8'-6"	94"	3-1/2"	10"	34"	58"	82"	–	–	–
9'-0"	100"	3-1/2"	10"	34"	58"	82"	–	–	–
9'-6"	106"	3-1/2"	10"	34"	58"	82"	–	–	–
10'-0"	112"	3-1/2"	10"	34"	58"	82"	–	–	–
10'-6"	118"	3-1/2"	10"	34"	58"	82"	106"	–	–
11'-0"	124"	3-1/2"	10"	34"	58"	82"	106"	–	–
11'-6"	130"	3-1/2"	10"	34"	58"	82"	106"	–	–
12'-0"	136"	3-1/2"	10"	34"	58"	82"	106"	–	–
12'-6"	94"	3-1/2"	10"	34"	58"	82"	106"	130"	–
13'-0"	100"	3-1/2"	10"	34"	58"	82"	106"	130"	–
13'-6"	106"	3-1/2"	10"	34"	58"	82"	106"	130"	–
14'-0"	112"	3-1/2"	10"	34"	58"	82"	106"	130"	–
14'-6"	118"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
15'-0"	124"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
15'-6"	130"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
16'-0"	136"	3-1/2"	10"	34"	58"	82"	106"	130"	154"

DESIGN ENGINEER:
SCOTT HAMILTON
FLORIDA P.E. #63286

THIS DOOR MEETS THE REQUIREMENTS OF THE LARGE MISSILE IMPACT AND CYCLIC TESTING.

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

(NOT TO BE USED FOR ATTACHMENT OF TRACK BRACKETS)

BUILDING TYPE	FASTENER TYPE	MAXIMUM * ON CENTER DISTANCE BETWEEN FASTENERS	STEEL WASHERS REQUIRED?
C-90 BLOCK (HOLLOW OR GROUTED)	1/4" x 3" (1-1/4" EMBED) ITW TAPCON CONCRETE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	7"	1" O.D.
2,000 PSI MIN. CONCRETE	1/4" x 4" (1-3/4" EMBED) ITW TAPCON CONCRETE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	14-1/4"	1" O.D.
3,000 PSI MIN. CONCRETE	1/2" x 4" (2-1/4" EMBED) SIMPSON STRONG-TIE WEDGE-ALL WEDGE ANCHOR (2" MIN. EDGE DISTANCE)	14-1/2"	INCLUDED
2,000 PSI MIN. CONCRETE	1/2" x 4" (2-1/2" EMBED) WEJ-IT SLEEVE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	16"	INCLUDED
WOOD FRAME	1/2" x 4" (1-5/8" EMBED) LAG SCREW (ASTM A307, GRADE A) (2-1/2" MIN. EDGE DISTANCE)	16-3/4"	1" O.D.

* – FIRST ANCHOR/SCREW STARTING FROM BOTTOM AT NO MORE THAN HALF OF MAXIMUM ON CENTER DISTANCE. HIGHEST ANCHOR/SCREW INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING HEIGHT.

DESIGN LOADS: +48.0 P.S.F. & –60.0 P.S.F.
TEST LOADS: +72.0 P.S.F. & –90.0 P.S.F.

MANUFACTURING PRODUCT CODE: DSIU–1F171

Unless Stated Otherwise TOLERANCES are
.0 = ±.031
.00 = ±.015
.000 = ±.005
.0000 = ±.001
Degrees = ±1/2'
Unless Stated Otherwise DIMENSIONS ARE IN INCHES.

Clopay CORPORATION
8585 Duke Boulevard
Mason, OH 45040 USA
Tel. No. 513-770-4800
Fax No. 513-770-4853

CLOPAY WINDLOAD RATING W8

DESCRIPTION: 2" SINGLE CAR URETHANE CLASSIC DOOR 9200
DRAWN BY: SH | DATE: 04/17/09 | SCALE: NONE | DWG. SIZE B
CHECKED BY: SH | DATE: 04/22/09 | SHEET 1 OF 1
DWG. NO.: 104185 | VER: IBC

FLORIDA PRODUCT APPROVAL 5684

December 15, 2011 (revised 10/19/23)

Evaluation Report for Clopay Corporation Sectional Garage Doors, W7 through W9

I have evaluated the wind load door designs as shown on the drawings listed below. I have reviewed the test reports, which were generated by accredited independent laboratories as required by the relevant Florida Administrative Rule, the engineering rational analysis, and the product drawings. The test reports are listed below. Testing was conducted by American Test Lab North Carolina and Hurricane Engineering and Testing Inc.

For the doors listed in the Tables below, Static Pressure Tests were conducted in accordance with TAS 202-1994, ASTM-E330-2002 and ANSI/DASMA 108-2005. Missile Impact and Cyclic Pressure Tests were conducted in accordance with TAS 201-1994 and TAS 203-1994 and ASTM E1886-2005 and ASTM E1996-2009 and ANSI/DASMA 115-2005. The pressures listed on the drawings are either direct results of these tests or results obtained through engineering rational analysis based on actual tests. I have concluded that the sectional garage door designs listed below in the Tables below are in compliance with these High Velocity Hurricane Zone test requirements of the Florida Building Code and therefore are qualified as impact-resistant assemblies (large missile impact).

TABLE 1: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F153:
101702-Rev13, max. door size 9'0" x 16'0", +42/-48 PSF (design load)
101296-Rev15, max. door size 9'0" x 16'0", +46/-50 PSF (design load)
104857-Rev00, max. door size 16'2" x 16'0", +42/-48 PSF (design load)

TABLE 2: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F143:
102621-Rev08, max. door size 18'2" x 16'0", +42/-46 PSF (design load)
103287-Rev05, max. door size 9'0" x 16'0", +54/-62 PSF (design load)
103547-Rev06, max. door size 9'0" x 16'0", +48/-54 PSF (design load)
101300-Rev17, max. door size 16'2" x 16'0", +46.6/-52 PSF (design load)
101706-Rev14, max. door size 9'0" x 16'0", +62/-72 PSF (design load)

TABLE 3: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F171:
101703-Rev13, max. door size 9'0" x 16'0", +48/-60 PSF (design load)
101488-Rev14, max. door size 16'2" x 16'0", +46.6/-52 PSF (design load)
103028-Rev09, max. door size 18'2" x 16'0", +46/-50 PSF (design load)

TABLE 4: Drawings for doors with Manufacturing Product Code (MPC) DSIEO-1M479:
103436-Rev03, max. door size 9'0" x 16'0", +54/-60 PSF (design load)
103560-Rev05, max. door size 16'2" x 16'0", +46.6/-52 PSF (design load)

TABLE 5: Drawings for doors with Manufacturing Product Code (MPC) C-DSIE-1F447:
101705-Rev09, max. door size 12'2" x 18'0", +52/-58 PSF (design load)

TABLE 6: Drawings for doors with Manufacturing Product Code (MPC) C-PAN-1E448:
102645-Rev08, max. door size 12'2" x 18'0", +50/-56 PSF (design load)
103288-Rev04, max. door size 14'2" x 18'0", +50/-56 PSF (design load)

TABLE 7: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F443:
104067-Rev03, max. door size 16'2" x 16'0", +46.6/-52 PSF (design load)
104121-Rev06, max. door size 9'0" x 16'0", +50/-58 PSF (design load)

TABLE 8: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F471:
104119-Rev05, max. door size 9'0" x 16'0", +54/-60 PSF (design load)
104038-Rev03, max. door size 16'2" x 16'0", +46.6/-52 PSF (design load)

TABLE 9: Drawings for doors with Manufacturing Product Code (MPC) DSIU-1F171:
104185-Rev03, max. door size 9'0" x 16'0", +48/-50 PSF (design load)
104280-Rev02, max. door size 16'2" x 16'0", +46.6/-52 PSF (design load)
104281-Rev02, max. door size 18'2" x 16'0", +46/-50 PSF (design load)

TABLE 10: Drawings for doors with Manufacturing Product Code (MPC) DSIUO-1K479:
104277-Rev03, max. door size 9'0" x 16'0", +54/-60PSF (design load)
104278-Rev03, max. door size 16'2" x 16'0", +46.6/-52 PSF (design load)

TABLE 11: Drawings for doors with Manufacturing Product Code (MPC) C-DSIU-1F447:
104112-Rev03, max. door size 16'2" x 18'0", +50/-56 PSF (design load)

TABLE 12: Drawings for doors with Manufacturing Product Code (MPC) C-DSIU-1D447:
104245-Rev03, max. door size 12'2" x 18'0", +52/-58 PSF (design load)

Test Reports:
ATL 0428.01-09 (6/30/09), 1112.01-96 (11/13/96), 0907.01-23 (10/12/23), 0305.01-08 (5/28/08), 0924.02-02 (10/29/02), 0823.01-06 (12/18/06), 0827.01-04 (10/22/04), 1008.01-07 (11/5/07), 0606.01-05 (7/29/05), 0107.01-09 (2/2/09), 1018.01-04 (7/13/10), 0415.01-08 (5/15/08), 0331.01-08 (5/13/08), 1106.01-07 (11/29/07), 0128.01-08 (3/13/08), 0327.01-08 (5/13/08), 0610.01-08 (7/16/08), 1202.01-08 (12/17/08), 1210.01-08 (12/17/08), 0609.01-09 (7/28/09), 0512.01-09 (6/22/09), 0127.01-09 (2/4/09); HETI 95-494 & 95-496 (10/23/95), 94-252 & 94-254 (7/29/97), 02-1267 & 02-1268 (11/21/02), 03-1358 & 03-1359 (11/19/03). These reports documents compliance with the TAS testing standards and are signed by David Johnson (FL PE 61915), ATL or William Mehner (FL PE 7496), ATL or Hector Medina (FL PE 13008), HETI or Rafael Droz-Seda (FL PE 39228), HETI.

Product Description for doors with MPC PAN-2F153:

These doors consist of 2" thick steel pan sections with min. 25 ga. (0.019") skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing (molded). Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 73, 75, 6RST, 42, 42B, 84A, 94, 98, 4RST, 4F, 48, 48B, 1500, 190, 55, 55S. Not all models may be shown on a given drawing.

Product Description for doors with MPC PAN-2F143:

These doors consist of 2" thick steel pan sections with min. 24 ga. (0.0239") skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing (molded). Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 84A, 93, 94, 98, 4RST, 4F, 48, 48B. Not all models may be shown on a given drawing.

Product Description for doors with MPC DSIE-1F171:

These doors consist of 2" double-skin insulated sections with an EPS core laminated to both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing (molded). Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 4300, 4301, 4310, 4400, 4401, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, 68G, 6200, 6201, 6203, SP200, SF200, SE200. Not all models may be shown on a given drawing.

Product Description for doors with MPC DSIEO-1M479:

These doors consist of a base 2" double-skin insulated section with an EPS core laminated to both skins. Decorative overlays are attached to the exterior skin, adding not more than 5/8" to the total thickness. Both inner and outer skins are min. 27 ga. (0.016") G40 CS Type B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: CGnn, CPnn, HPnn, CXnn, SXnn, AGnn. Note that 'nn' represents the arrangement of the decorative overlays. Not all models may be shown on a given drawing.

Product Description for doors with MPC C-PAN-1E448:

These doors consist of 2" thick steel pan doors with min. 24 ga. (0.022") outer skins. The steel skin is at least G40 CS-B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: 524, 520, 224, C4ST, C0ST. Not all models may be shown on a given drawing.

Product Description for doors with MPC PAN-2F443:

These doors consist of 2" thick steel pan doors with min. 24 ga. (0.022") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 24". These doors may have optional Impact-Resistant Glazing (Aluminum). Optional Impact-Resistant Glazing is an aluminum front frame and a separate polycarbonate glazing. The following models are at least structurally equivalent to the tested door: G4S, GS4, GD4S, GR4S, G4SV, GS4V, GD4SV, GR4SV, E4S, ED4S, E4SV, ED4SV, MR4S, SS4, AR4S, MR4SV, SS4V, AR4SV. Not all models may be shown on a given drawing.

Product Description for doors with MPC DSIE-1F471:

These doors consist of 2" double-skin insulated sections with an EPS core laminated to both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 24". These doors may have optional Impact-Resistant Glazing (Aluminum). Optional Impact-Resistant Glazing is an aluminum front frame and a separate polycarbonate glazing. The following models are

at least structurally equivalent to the tested door: GD2SP, GR2SP, GD2LP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP, 4302, HDGC, 6202, MFC68, 4305, HDGR, MFR68, 6205, SFR68, SFC68. Not all models may be shown on a given drawing.

Product Description for doors with MPC PAN-2F151:

These doors consist of 2" thick steel pan doors with min. 25 ga. (0.019") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". The following models are at least structurally equivalent to the tested door: 76, 76V.

Product Description for doors with MPC DSIU-1F171:

These doors consist of 2" double-skin insulated sections with polyurethane insulation foamed in place between both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing in either the top section or the next-to-the-top section. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: HDP20, HDPF20, HDPL20, 7200, 7201, 7203, 8200, 8201, 8203, 9200, 9201, 9203. Not all models may be shown on a given drawing.

Product Description for doors with MPC DSIUO-1K479:

These doors consist of a base 2" double-skin insulated section with polyurethane insulation foamed in place between both skins. Decorative overlays and optional cladding are attached to the exterior skin, adding not more than 1" to the total thickness. Both inner and outer skins are min. 27 ga. (0.016") G40 CS Type B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: CAN2nn-XX, GLN2nn-XX, MWL2nn-XX. Note that 'nn' represents the arrangement of the decorative overlays and 'XX' represents the type of cladding. Not all models may be shown on a given drawing.

Product Description for doors with MPC C-DSIE-1F447:

These doors consist of 2" double-skin insulated sections with an EPS core laminated to both min. 24 ga. (0.019") exterior and 27 ga. (0.016") interior skins. The steel skins are at least G40 CS-B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: 3200, 3205, 3220, 240, 240G. Not all models may be shown on a given drawing.

Product Description for doors with MPC C-DSIU-1F447:

These doors consist of a base 2" double-skin insulated section with polyurethane insulation foamed in place between both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 CS Type B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: 3720, C7X20, 240U, 3722, C0X22, 3724, C7X24. Not all models may be shown on a given drawing.

Product Description for doors with MPC C-DSIU-1D447:

These doors consist of a base 1-3/4" (min.) double-skin insulated section with polyurethane insulation foamed in place between both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 CS Type B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door:

3717, C7X17, 3718, C7X18, 3720, C7X20, 240U, 3722, C0X22, 3724, C7X24. Not all models may be shown on a given drawing.

Impact Resistant Glazing (Aluminum):

The optional impact resistant glazing is an aluminum front frame and a separate polycarbonate glazing that is an approved C1 plastic in accordance with testing required by FBC-B 2606 and complies with FBC-B 2615 testing requirements. Approved polycarbonate materials are Sabic IP Lexan 9034 (versions also approved: MR10, 9030, 90318, 90316, 90317, 90311, 90314, 90355) and Bayer Makrolon GP (versions also approved: SL, AR, 15). Approval based on review of NOA 13-0717.01 (Sabic) and NOA 12-0605.05 (Bayer) and manufacturer's product datasheets.

Impact Resistant Glazing (Molded):

The optional impact resistant glazing is an injection-molded polycarbonate front frame and glazing (LEXAN SLX2432T) that is an approved C1 plastic in accordance with testing required by FBC-B 2606. FBC-B 2615 compliance based on review of the following tests:
HETI-06-A002 ASTM G155; HETI-06-T566 ASTM D638 (before); HETI-06-T634 ASTM D638 (after); ETC-06-1024-17496.0 ASTM D2843, ASTM D635, ASTM D1929.

Limitations:

The drawing(s) cited above are an explicit part of this evaluation report. The text of this report does not attempt to address all design details and relies on the illustrations and text of these drawings as well.

Jambs, lintels, sills or other structural elements required to prepare openings are not covered. The design of the supporting structural elements shall be the responsibility of the professional of record for the building or structure and in accordance with current building codes for the loads listed on the drawing(s) referenced above.

Installation requirements per the relevant Florida Administrative Rule, including attachments, are detailed on the drawing(s) listed above. Installation must be in accordance with manufacturer's installation instructions and must be as shown on the drawing(s) listed above. The manufacturer's licensed design professional listed on the drawing(s) has reviewed the attachment details and installation requirements.

Signature:

James D. Wheeler, P. E.
Florida P. E. No. 91932

Date: 10/19/23

JAMES D. WHEELER LICENSE No. 91932 STATE OF FLORIDA PROFESSIONAL ENGINEER