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Product Approval
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FL #	FL5684-R12						
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	Scott Hamilton shamilton@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	12/31/2026						
Validated By	Gary Pfuehler ☒ Validation Checklist - Hardcopy Received						
Certificate of Independence	FL5684 R12 COI Certification of Independence of Evaluation Entity-Gary Pfuehler.pdf FL5684 R12 COI Statement on Independence of Evaluation Entity-ScottHamilton.pdf						
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th><th>Year</th></tr> </thead> <tbody> <tr> <td>ANSI/DASMA 108</td><td>2005</td></tr> <tr> <td>ANSI/DASMA 115</td><td>2005</td></tr> </tbody> </table>	Standard	Year	ANSI/DASMA 108	2005	ANSI/DASMA 115	2005
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 R12 Equiv 20200812 - FBC - ASTM 1886-1996 equiv.pdf](#)
[FL5684 R12 Equiv 20230712 - FBC - ASTM E330 equiv s.pdf](#)

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 12/28/2023
 Date Validated 12/28/2023
 Date Pending FBC Approval 01/03/2024
 Date Approved 02/13/2024

Summary of Products

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FL #	Model, Number or Name	Description
5684.1	01 W8-09 DSIE-1F471: GD2SP, GR2SP, GD2LP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP, 4302, 6202, SFC68, 4305, HDGR, MFR68, 6205, SFR68	Gallery/Artistry/Expressions: Double-skin Insulated (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: +54 PSF/-60 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH.		Installation Instructions FL5684 R12 II 104119-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684 R12 AE CBPC 111215-A.pdf Created by Independent Third Party: No
5684.2	02 W7-09 PAN-2F153: 73, 75, 84A, 94, 98, 42, 42B, 48, 48B, 4F, 4RST, 6RST	Steel Pan (min. 25 ga.) Single-Car (up to 9'0" 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 PSF/-48 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Optional Impact Resistant Glazing available.		Installation Instructions FL5684 R12 II 101702-Rev13.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684 R12 AE CBPC 111215-A.pdf Created by Independent Third Party: No
5684.3	03 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 PSF/-48 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Optional Impact Resistant Glazing available.		Installation Instructions FL5684 R12 II DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684 R12 AE DISCONTINUED.pdf Created by Independent Third Party: No
5684.4	04 W7-18 PAN-2F143: 84A, 94, 98, 48, 48B, 4F, 4RST	Steel Pan (min. 24 ga.) 16'4" to 18'2" 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 PSF/-46 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH.		Installation Instructions FL5684_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.5	05 W8-09 DSIE-1F171: 4400, 4401, HDG, HDGL, HDGF, 4300, 4310, 4301, 66, 66G, 67, 67G, 68, 68G, 6200, 6201, 6203, SP200, SF200, SE200	Double-skin Insulated (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_R12_II_101703-Rev13.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_CBPC_111215-A.pdf Created by Independent Third Party: No
5684.6	06 W8-09 PAN-2F153: 73, 75, 42, 42B, 6RST	Steel Pan (min. 25 ga.) 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: +46 PSF/-50 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Optional Impact Resistant Glazing available.		Installation Instructions FL5684_R12_II_101296-Rev15.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_CBPC_111215-A.pdf Created by Independent Third Party: No
5684.7	07 W8-09 PAN-2F143: 84A, 94, 98, 48, 48B, 4F, 4RST (solid doors)	Steel Pan (min. 24 ga.) Single-Car (up to 9'0" wide) WINDCODE® W8 Garage Door with no glazing
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +54 PSF/-62 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors.		Installation Instructions FL5684_R12_II_103287-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_CBPC_111215-A.pdf Created by Independent Third Party: No
5684.8	08 W8-09 PAN-2F143: 84A, 94, 98, 48, 48B 4F, 4RST (impact-resistant glazing)	Steel Pan (min. 24 ga.) Single-Car (up to 9'0" wide) WINDCODE® W8 Garage Door with Impact Resistant Glazing
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +48 PSF/-54 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Doors with Impact Resistant Glazing.		Installation Instructions FL5684_R12_II_103547-Rev06.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_CBPC_111215-A.pdf Created by Independent Third Party: No
5684.9	09 W8-09 DSIEO-1M479: Coachman/Settlers/Affinity	Double-skin Insulated (exterior skin 27 ga. min.; interior skin 27 ga. 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_R12_II_103436-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_CBPC_111215-A.pdf Created by Independent Third Party: No
5684.10	10 W8-12 C-DSIE-1F447: 3200, 3205, 3220, 240, 240G	Double-skin Insulated EPS (exterior skin 24 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		Installation Instructions FL5684_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286

Impact Resistant: Yes Design Pressure: +52 PSF/-58 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Optional Impact Resistant Glazing available.		Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.11	11 W8-12 C-PAN-1E448: 524, 520, 224, C4ST, C0ST	Ribbed Steel (min. 24 ga.) WINDCODE® W8 Sectional Door, up to 12'2"
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.		Installation Instructions FL5684_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.12	12 W8-14 C-PAN-1E448: 524, 520, 224, C4ST, C0ST	Ribbed Steel (min. 24 ga.) WINDCODE® W8 Sectional Door, 12'3" to 14'2"
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.		Installation Instructions FL5684_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.13	13 W8-16 PAN-2F443: G4S, GS4, GD4S, GR4S, E4S, ED4S, SS4, AR4S	Gallery/Artistry/Expressions: Steel Pan (min. 24 ga.) Double-Car (up 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_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.14	14 W8-16 DSIE-1F471: GD2SP, GR2SP, GD2LP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP	Gallery/Artistry/Expressions: Double-skin Insulated (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double-Car (up 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_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.15	15 W8-16 DSIEO-1M479: Coachman/Settlers/Affinity	Double-skin Insulated (exterior skin 27 ga. min.; interior skin 27 ga. min.) with Overlay Double-Car (9'2" up 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_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.16	16 W8-16 DSIE-1F171: 4400, 4401, HDG, HDGL, 4300, 4310, 4301, 66, 66G, 67, 67G, 68, 68G, 6200, 6201, 6203, SP200, SF200, SE200	Double-skin Insulated (exterior skin 27 ga. min.; interior skin 27 ga. min.) 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. Optional Impact Resistant Glazing available.		Installation Instructions FL5684_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No

5684.17	17 W8-16: PAN-2F143: 84A, 94, 98, 48, 48B, 4F, 4RST	Steel Pan (min. 24 ga.) 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. Optional Impact Resistant Glazing available.		Installation Instructions FL5684_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.18	18 W8-18 DSIE-1F171: 4400, 4401, HDG, HDGL, HDGF, 4300, 4310, 4301, 66, 66G, 67, 67G, 68, 68G, 6200, 6201, 6203, SP200, SF200, SE200	Double-skin Insulated (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double Car (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_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.19	19 W9-09 PAN-2F143: 93, 84A, 94, 98, 4F, 4RST, 48, 48B	Steel Pan (min. 24 ga.) Single-Car (up to 9'0" wide) WINDCODE® W9 Garage Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +62 PSF/-72 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Optional Impact Resistant Glazing available.		Installation Instructions FL5684_R12_II_DISCONTINUED.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_DISCONTINUED.pdf Created by Independent Third Party: No
5684.20	20 W8-09 PAN-2F443: G4S, GS4, GD4S, GR4S, E4S, ED4S, SS4, AR4S	Gallery/Artistry/Expressions: Steel Pan (min. 24 ga.) Double-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: +50 PSF/-58 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH.		Installation Instructions FL5684_R12_II_104121-Rev06.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL5684_R12_AE_CBPC_111215-A.pdf Created by Independent Third Party: No
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Product Approval Accepts:



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

