



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL #	FL16107-R16														
Application Type	Revision														
Code Version	2023														
Application Status	Validated														
Comments															
Archived	☐														
Product Manufacturer	Clopay Building Products Company														
Address/Phone/Email	8585 Duke Blvd. Mason, OH 45040 (513) 770-6062 mwesterfield@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	FL16107_R16_COI_Certification_of_Independence_of_Validation_Entity-Gary_Pfuehler.pdf FL16107_R16_COI_Statement_on_Independence_of_Evaluation_Entity-ScottHamilton_120424.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> <tr> <td>ASTM E1886</td><td>2005</td></tr> <tr> <td>ASTM E1996</td><td>2009</td></tr> <tr> <td>ASTM E330</td><td>2002</td></tr> <tr> <td>TAS 201</td><td>1994</td></tr> </tbody> </table>	Standard	Year	ANSI/DASMA 108	2005	ANSI/DASMA 115	2005	ASTM E1886	2005	ASTM E1996	2009	ASTM E330	2002	TAS 201	1994
Standard	Year														
ANSI/DASMA 108	2005														
ANSI/DASMA 115	2005														
ASTM E1886	2005														
ASTM E1996	2009														
ASTM E330	2002														
TAS 201	1994														

Equivalence of Product Standards
Certified By

Florida Licensed Professional Engineer or Architect
[FL16107_R16_Equiv_20200812 - FBC - ASTM 1886-1996 equiv.pdf](#)
[FL16107_R16_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

Summary of Products

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FL #	Model, Number or Name	Description
16107.1	01 W6-16 DSIE-1F171: 4300, 4301, 4310, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, SP200, SF200, SE200, 6200, 6201, 6203	Double-skin Insulated EPS (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double-Car (9'2" to 16'2" wide) WINDCODE® W6 Garage Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +38 PSF/-42 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104724-A-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.2	02 W6-16 DSIE-1F171: 4300, 4301, 4310, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, SP200, SF200, SE200, 6200, 6201, 6203	Double-skin Insulated EPS (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double-Car (9'2" to 16'2" wide) WINDCODE® W6 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38 PSF/-42 PSF Other: Doors with standard glazing meet the wind load requirements of the building code but DO NOT meet the impact resistant requirement for windborne debris regions.		Installation Instructions FL16107_R16_II_104724-B-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.3	03 W6-16 PAN-2F153: 73, 75, 84A, 94, 42, 48, 42B, 48B, 4RST, 6RST, GD5S, GR5S, AR5S, ED5S	Steel Pan (min. 25 ga.) Double-Car (9'2" to 16'2" wide) WINDCODE® W6 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: +36 PSF/-42 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104710-A-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.4	04 W6-16 PAN-2F153: 73, 75, 84A, 94, 42, 48, 42B, 48B, 4RST, 6RST, GD5S, GR5S, AR5S, ED5S	Steel Pan (min. 25 ga.) Double-Car (9'2" to 16'2" wide) WINDCODE® W6 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +36 PSF/-42 PSF Other: Doors with standard glazing meet the wind load		Installation Instructions FL16107_R16_II_104710-B-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf

requirements of the building code but DO NOT meet the impact resistant requirement for windborne debris regions.		Created by Independent Third Party: No
16107.5	05 W6-16 PAN-2F143: 84A, 94, 98, 48, 48B, 4F, 4RST	Steel Pan (min. 24 ga.) Double-Car (9'2" to 16'2" wide) WINDCODE® W6 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: +38 PSF/-42 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107 R16 II 104753-A-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107 R16 AE CBPC 121212-A.pdf Created by Independent Third Party: No
16107.6	06 W6-16 PAN-2F143: 84A, 94, 98, 48, 48B, 4F, 4RST	Steel Pan (min. 24 ga.) Double-Car (9'2" to 16'2" wide) WINDCODE® W6 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38 PSF/-42 PSF Other: Doors with standard glazing meet the wind load requirements of the building code but DO NOT meet the impact resistant requirement for windborne debris regions.		Installation Instructions FL16107 R16 II 104753-B-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107 R16 AE CBPC 121212-A.pdf Created by Independent Third Party: No
16107.7	07 W6-18 DSIE-1F171: 4300, 4301, 4310, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, SP200, SF200, SE200, 6200, 6201, 6203	Double-skin Insulated EPS (exterior skin 27 ga. min.; interior skin 27 ga. min.) 16'4" to 18'2" wide WINDCODE® W6 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: +38 PSF/-42 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107 R16 II 104751-A-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107 R16 AE CBPC 121212-A.pdf Created by Independent Third Party: No
16107.8	08 W6-18 DSIE-1F171: 4300, 4301, 4310, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, SP200, SF200, SE200, 6200, 6201, 6203	Double-skin Insulated EPS (exterior skin 27 ga. min.; interior skin 27 ga. min.) 16'4" to 18'2" wide WINDCODE® W6 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38 PSF/-42 PSF Other: Doors with standard glazing meet the wind load requirements of the building code but DO NOT meet the impact resistant requirement for windborne debris regions.		Installation Instructions FL16107 R16 II 104751-B-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107 R16 AE CBPC 121212-A.pdf Created by Independent Third Party: No
16107.9	09 W6-18 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® W6 Garage Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +38 PSF/-42 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107 R16 II 104777-A-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107 R16 AE CBPC 121212-A.pdf Created by Independent Third Party: No
16107.10	10 W6-18 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® W6 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38 PSF/-42 PSF		Installation Instructions FL16107 R16 II 104777-B-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports

Other: Doors with standard glazing meet the wind load requirements of the building code but DO NOT meet the impact resistant requirement for windborne debris regions.		FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.11	11 W6-18 PAN-2F153: 73, 75, 84A, 94, 42, 48, 42B, 48B, 4RST, 6RST, GD5S, GR5S, AR5S, ED5S, GD4S, GR4S, AR4S, ED4S	Steel Pan (min. 25 ga.) Double-Car (16'4" to 18'2" wide) WINDCODE® W6 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: +36 PSF/-42 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104761-A-Rev06.pdf Verified By: Jim Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.6.pdf Created by Independent Third Party: No
16107.12	12 W6-18 PAN-2F153: 73, 75, 84A, 94, 42, 48, 42B, 48B, 4RST, 6RST, GD5S, GR5S, AR5S, ED5S, GD4S, GR4S, AR4S, ED4S	Steel Pan (min. 25 ga.) Double-Car (16'4" to 18'2" wide) WINDCODE® W6 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +36 PSF/-42 PSF Other: Doors with standard glazing meet the wind load requirements of the building code but DO NOT meet the impact resistant requirement for windborne debris regions.		Installation Instructions FL16107_R16_II_104761-B-Rev06.pdf Verified By: Jim Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.6.pdf Created by Independent Third Party: Yes
16107.13	13 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 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: +41 PSF/-46 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104762-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.14	14 W8-16 DSIE-1F171: HDG, HDGL, 4300, 4310, 4301, 66, 66G, 67, 67G, 68, 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 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 PSF/-52 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104736-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.15	15 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 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 PSF/-50 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104754-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.16	16 W8-18 DSIE-1F171: HDG, HDGL, HDGF, 4300, 4310, 4301, 66, 66G, 67, 67G, 68, 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 with Optional Impact-Resistant Lites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes		Installation Instructions FL16107_R16_II_104752-Rev05.pdf Verified By: Scott Hamilton FL PE 63286

Impact Resistant: Yes Design Pressure: +46 PSF/-50 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.17	17 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 PSF/-52 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104778-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.18	18 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 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 PSF/-50 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104779-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.19	19 W6-16 DSIE-1F471: GD2SP, GR2SP, GD2LP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP, 4302, HDGC, 6202, MFC68, 4305, HDGR, 6205, SFR68, MFR68	Double-skin Insulated EPS (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double-Car (9'2" to 16'2" wide) WINDCODE® W6 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: +38 PSF/-42 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).		Installation Instructions FL16107_R16_II_104785-A-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_130214-A.pdf Created by Independent Third Party: No
16107.20	20 W6-16 DSIE-1F471: GD2SP, GR2SP, GD2LP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP, 4302, HDGC, 6202, MFC68, 4305, HDGR, 6205, SFR68, MFR68	Double-skin Insulated EPS (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double-Car (9'2" to 16'2" wide) WINDCODE® W6 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38 PSF/-42 PSF Other: Doors with standard glazing meet the wind load requirements of the building code but DO NOT meet the impact resistant requirement for windborne debris regions.		Installation Instructions FL16107_R16_II_104785-B-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16107_R16_AE_CBPC_130214-A.pdf Created by Independent Third Party: No

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[Back](#)[Next](#)[Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824](#)The State of Florida is an AA/EEO employer. [Copyright 2007-2013 State of Florida.](#) :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

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Product Approval Accepts:



Credit Card
Safe
securityMETRICS™

MODELS	24 GA SHORT	24 GA FLUSH
CLOPAY	84A, 94	98
HOLMES	48, 48B	---
IDEAL	4RST	4F

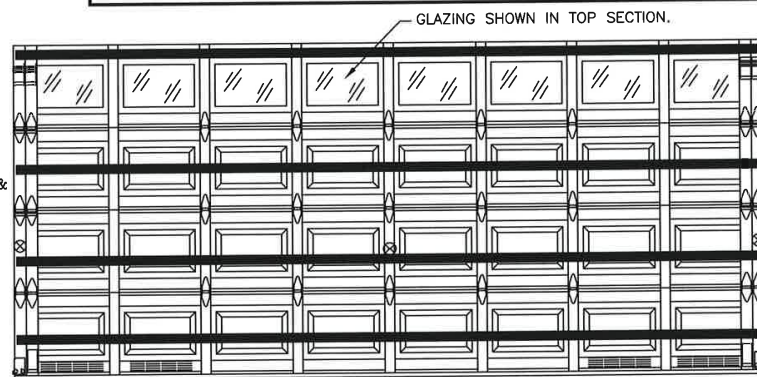
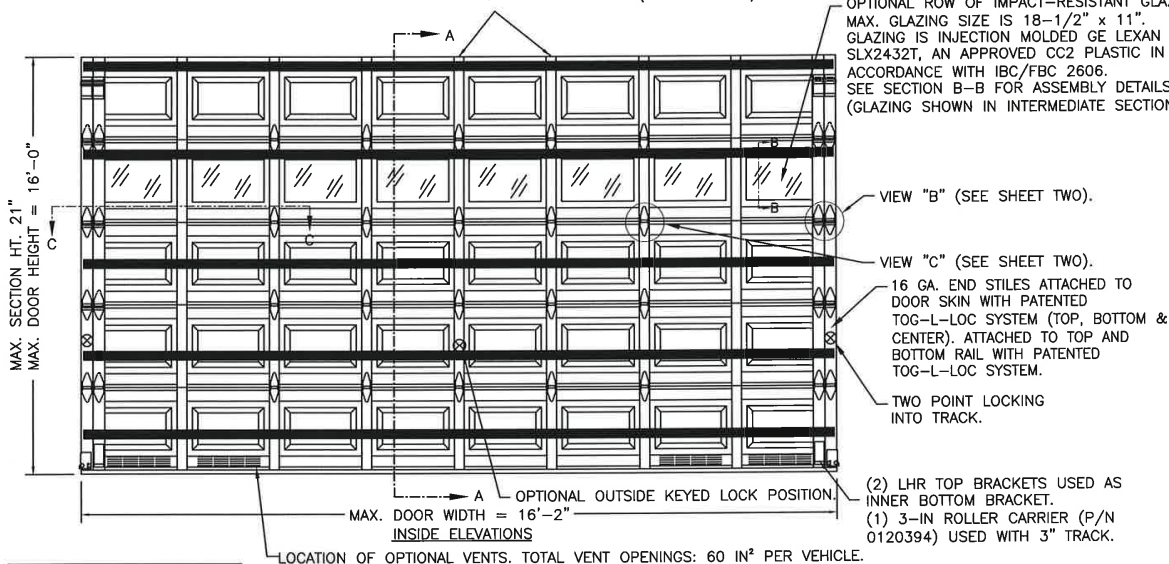
ONE INTERMEDIATE STILE BETWEEN EACH EMBOSS LOCATION. ATTACHED W/ TOG-L-LOC (TOP & BTM) AND URETHANE ADHESIVE (ALONG CENTER).

SHEET:
1 OF 3

REV. NO.	ZONE	DATE	ECN NO.	APPVD	DESCRIPTION
02	---	12/20/12	---	SH	ADDED FBC 2612 REFERENCE
03	---	8/5/20	---	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART

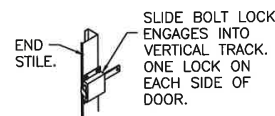
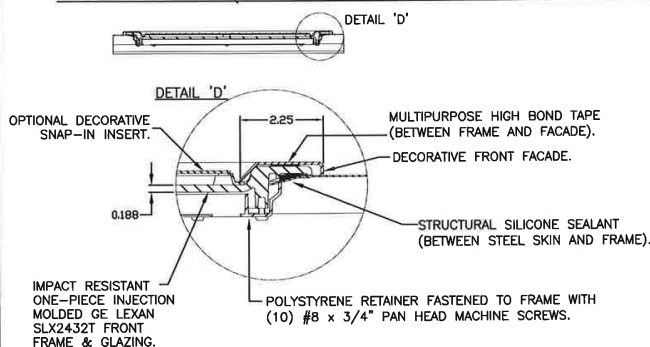
OPTIONAL ROW OF IMPACT-RESISTANT GLAZING. MAX. GLAZING SIZE IS 18-1/2" x 11". GLAZING IS INJECTION MOLDED GE LEXAN SLX2432T, AN APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606. SEE SECTION B-B FOR ASSEMBLY DETAILS. (GLAZING SHOWN IN INTERMEDIATE SECTION.)

IMPACT-RESISTANT CONSTRUCTION:
SOLID DOORS (NO GLAZING) OR DOORS WITH OPTIONAL IMPACT-RESISTANT GLAZING ARE IMPACT-RESISTANT. OPTIONAL INJECTION-MOLDED POLYCARBONATE FRONT FRAME AND GLAZING IS GE LEXAN SLX2432T, AN APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606 AND AN APPROVED C1 PLASTIC IN ACCORDANCE WITH FBC 2612. THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE AND INTERNATIONAL BUILDING CODE AND IS LARGE- AND SMALL-MISSILE IMPACT RESISTANT.

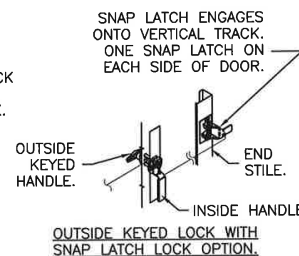


DOOR HEIGHT	# OF SECTIONS
UP TO 7'0"	4
7'3" TO 8'9"	5
9'0" TO 10'6"	6
10'9" TO 12'3"	7
12'6" TO 14'0"	8
14'3" TO 15'9"	9
16'0"	10
MAX SECTION HEIGHT: 21'	

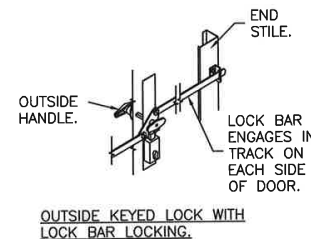
SECTION B-B (IMPACT-RESISTANT GLAZING OPTION)



INSIDE SLIDE BOLT LOCK OPTION.



OUTSIDE KEYED LOCK WITH SNAP LATCH LOCK OPTION.



OUTSIDE KEYED LOCK WITH LOCK BAR LOCKING.



DESIGN ENGINEER:
SCOTT HAMILTON, P.E.
FLORIDA LICENSE No. 63286

DESIGN LOADS: +46.0 P.S.F. & -50.0 P.S.F.
TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.

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

MANUFACTURING PRODUCT CODE
PAN-2F143

PART NO.: N/A

WINDLOAD RATING
W8 DP46

DESCRIPTION: 2" STEEL PAN DOORS 16'2"W (SEE TABLE FOR MODELS)

DRAWN BY: SH DATE: 11/19/12 SCALE: NTS DWG. B

CHECKED BY: SH DATE: 11/20/12 SHEET 1 OF 3 SIZE B

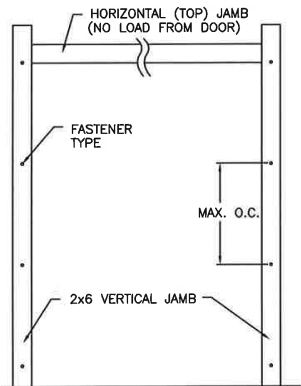
DWG. NO.: 104754 VER: IBC

2 FLORIDA PRODUCT APPROVAL 16107

MODELS	24 GA SHORT	24 GA FLUSH
CLOPAY	84A, 94	98
HOLMES	48, 48B	--
IDEAL	4RST	4F

SHEET:
2 OF 3

REVISIONS						DESCRIPTION
REV. NO.	ZONE	DATE	ECN NO.	APPVD:		
03	-	-	-	-		SEE REVISION HISTORY ON SHEET ONE.



JAMB TO SUPPORTING STRUCTURE ATTACHMENT

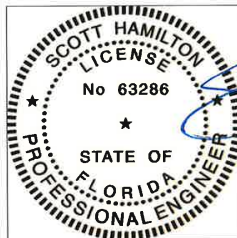
NOTES:

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. EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +368 LB & -400 LB. PER LINEAR FOOT OF JAMB.
3. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
4. 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

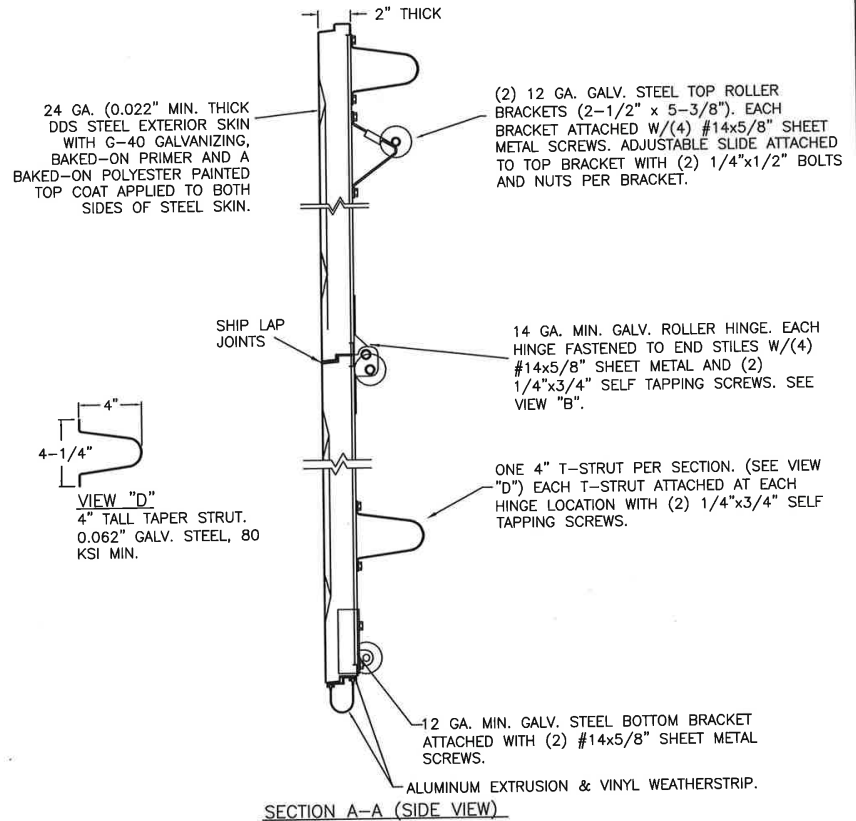
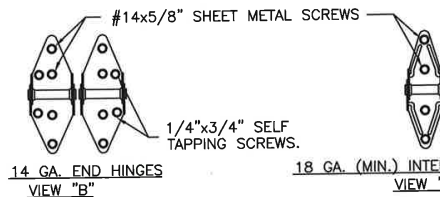
2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT (NOT TO BE USED FOR ATTACHMENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
BLOCK WALL	1/4" x 1-1/4" MIN. EMBED TAPCON CONCRETE ANCHOR	6-1/4"	1" O.D.
3000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	6-3/4"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	13-1/2"	INCLUDED
4000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	24"	INCLUDED
WOOD FRAME (SYP 0.55 SG)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE	14-3/4"	1" O.D.

* FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
CLOPAY DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.
MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 2-1/2", EXCLUDING STUCCO THICKNESS.



DESIGN ENGINEER:
SCOTT HAMILTON, P.E.
FLORIDA LICENSE No. 63286



DESIGN LOADS: +46.0 P.S.F. & -50.0 P.S.F.
TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.

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

MANUFACTURING PRODUCT CODE
PAN-2F143

PART NO.: N/A

WINDLOAD RATING
W8 DP46

DESCRIPTION: 2" STEEL PAN DOORS 16'2"W (SEE TABLE FOR MODELS)
DRAWN BY: SH DATE: 11/19/12 SCALE: NTS DWG. B
CHECKED BY: SH DATE: 11/20/12 SHEET 2 OF 3
DWG. NO.: 104754 VER: IBC

2 FLORIDA PRODUCT APPROVAL 16107

MODELS	24 GA SHORT	24 GA FLUSH
CLOPAY	84A, 94	98
HOLMES	48, 48B	--
IDEAL	4RST	4F

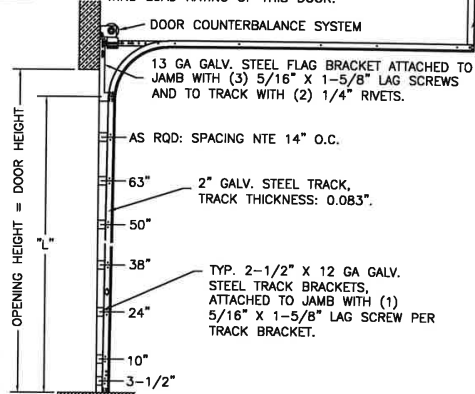
SHEET
3 OF 3

REVISIONS

REV. NO.	ZONE	DATE	ECN NO.	APPVD:	DESCRIPTION
03	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

2" TRACK CONFIGURATION DOORS UP TO 800 LBS.

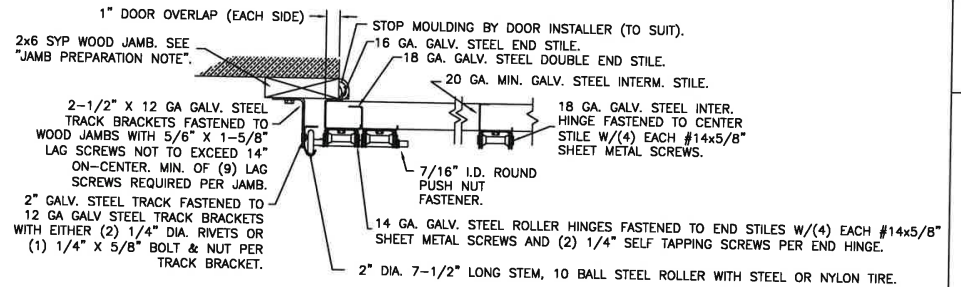
NOTE: TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.



HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT).

DOOR HEIGHT	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"
8'-6"	94"
9'-0"	100"
9'-6"	106"
10'-0"	112"
10'-6"	118"
11'-0"	124"
11'-6"	130"
12'-0"	136"
12'-6"	142"
13'-0"	148"
13'-6"	154"
14'-0"	160"
14'-6"	166"
15'-0"	172"
15'-6"	178"
16'-0"	184"

JAMB CONFIGURATION DOORS UP TO 800 LBS.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

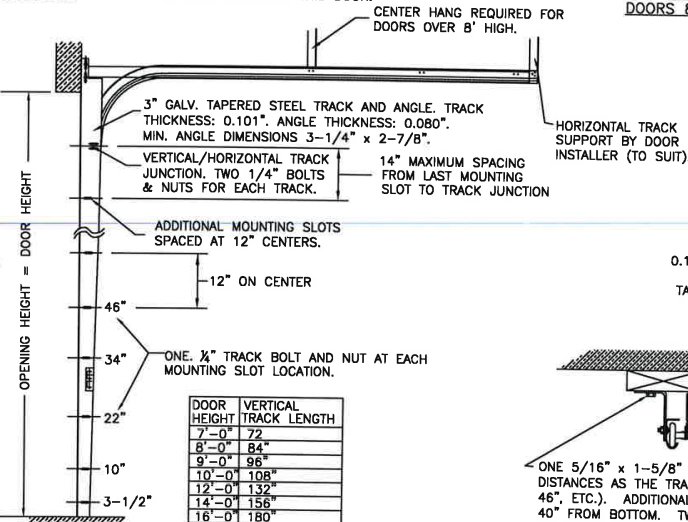
LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS SHOWN IN ZONE B-3 SHEET 1.

DOUBLE TRACK LOW HEADROOM OPTION (AVAIL. FOR BOTH 2" AND 3" TRACK)

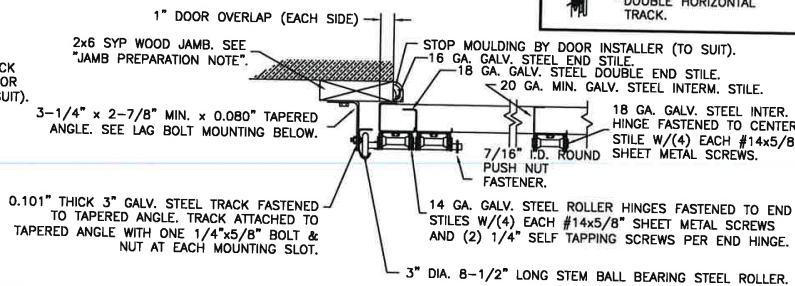
DOUBLE HORIZONTAL TRACK.

3" TRACK CONFIGURATION DOORS 800 LBS AND OVER.

NOTE: TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.



JAMB CONFIGURATION DOORS 800 LBS AND OVER.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

DESIGN LOADS: +46.0 P.S.F. & -50.0 P.S.F.
TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.

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
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MANUFACTURING PRODUCT CODE
PAN-2F143

PART NO.: N/A

WINDLOAD RATING
W8 DP46

DESCRIPTION: 2" STEEL PAN DOORS 16'2"W (SEE TABLE FOR MODELS)

DRAWN BY: SH DATE: 11/19/12 SCALE: NTS DWG. SIZE B

CHECKED BY: SH DATE: 11/20/12 SHEET 3 OF 3

DWG. NO.: 104754

VER: IBC



DESIGN ENGINEER:
SCOTT HAMILTON, P.E.
FLORIDA LICENSE No. 63286

December 12, 2012 (revised 8/5/20)

Evaluation Report for Clopay Corporation Sectional Garage Doors, W6 through W8

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. Assembly testing was conducted by American Test Lab North Carolina. Component testing was conducted by HETI and ETC.

For the doors listed in Tables 1 through 5, 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 door designs listed below in Tables 1 through 5 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:
104710-A-Rev04, max. door size 16'2" x 16'0"; +36/-42 PSF (design load)
104761-A-Rev05, max. door size 18'2" x 16'0"; +36/-42 PSF (design load)

TABLE 2: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F143:
104753-A-Rev03, max. door size 16'2" x 16'0"; +38/-42 PSF (design load)
104762-Rev03, max. door size 18'2" x 16'0"; +41/-46 PSF (design load)
104754-Rev03, max. door size 16'2" x 16'0"; +46/-50 PSF (design load)

TABLE 3: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F171:
104724-A-Rev05, max. door size 16'2" x 16'0"; +38/-42 PSF (design load)
104751-A-Rev05, max. door size 18'2" x 16'0"; +38/-42 PSF (design load)
104736-Rev05, max. door size 16'2" x 16'0"; +46/-52 PSF (design load)
104752-Rev05, max. door size 18'2" x 16'0"; +46/-50 PSF (design load)

TABLE 4: Drawings for doors with Manufacturing Product Code (MPC) DSIU-1F171:
104777-A-Rev04, max. door size 18'2" x 16'0"; +38/-42 PSF (design load)
104778-Rev05, max. door size 16'2" x 16'0"; +46/-52 PSF (design load)
104779-Rev04, max. door size 18'2" x 16'0"; +46/-50 PSF (design load)

TABLE 5: Drawings for doors with Manufacturing Product Code (MPC) W-1G899:
104939-Rev03, max. door size 9'0" x 12'0"; +47/-55 PSF (design load)
104998-Rev05, max. door size 16'2" x 12'0"; +41/-47 PSF (design load)

For the doors in Tables 6 through 9, Static Pressure Tests were conducted in accordance with ASTM-E330-2002 and ANSI/DASMA 108-2005. 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 door designs listed below in Tables 6 through 9 are in compliance with these test requirements of the Florida Building Code.

TABLE 6: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F153:
104710-B-Rev04, max. door size 16'2" x 16'0"; +36/-42 PSF (design load)
104761-B-Rev05, max. door size 18'2" x 16'0"; +36/-42 PSF (design load)

TABLE 7: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F143:
104753-B-Rev03, max. door size 16'2" x 16'0"; +38/-42 PSF (design load)

TABLE 8: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F171:
104724-B-Rev05, max. door size 16'2" x 16'0"; +38/-42 PSF (design load)
104751-B-Rev05, max. door size 18'2" x 16'0"; +38/-42 PSF (design load)

TABLE 9: Drawings for doors with Manufacturing Product Code (MPC) DSIU-1F171:
104777-B-Rev04, max. door size 18'2" x 16'0"; +38/-42 PSF (design load)

Test Reports:

ATL-0801.01-12 (8/15/12), ATL-0813.01-12 (10/9/12), ATL-1015.01-12 (11/3/12), ATL-1113.01-12R (2/18/13), ATL-1107.01-12 (11/20/12), ATL-1023.01-12 (11/13/12), ATL-1009.01-12R (11/20/12), ATL-0827.01-12 (10/9/12), ATL 0123.01-14 (9/3/2014), ATL 0121.01-15 (2/6/2015). These reports document compliance with the TAS testing standards and are signed and sealed by David Johnson, FL PE 61915.

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. 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, 94, 98, 73, 75, 1500, 190, 4RST, 4F, 4RSF, 6RST, 6RSF, 48, 48B, 42, 42B, 55, 55S, GD5S, GD5SV, GR5S, GR5SV, AR5S, AR5SV, ED5S, ED5SV. 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. (0.022") 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. 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, 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 (IM). Optional Impact-Resistant Glazing (IM) 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, HDG, HDGL, HDGF, 66, 66G, 67,

67G, 68, 6200, 6201, 6203, SP200, SF200, SE200. Not all models may be shown on a given drawing.

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. 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 W-1899:

These doors consist of 2-13/16" custom wood door sections with hemlock rails and stiles and decorative cladding and overlays. The maximum section height is 28". These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is certified laminated glass as detailed on the individual drawings. The following models are at least structurally equivalent to the tested door: CR800, MR800, CH900, CRDnnn. Not all models may be shown on a given drawing.

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:

Scott Hamilton, P. E.
Florida P. E. No. 63286

Date:

8/12/20

