FL #	FL16107-R17
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	FL16107_R17_COI_Certification_of_Independence_of_Validation_Entity-Gary_Pfuehler.pdf FL16107_R17_COI_Statement_on_Independence_of_Evaluation_Entity-ScottHamilton_120424.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ANSI/DASMA 108	2005
ANSI/DASMA 115	2005
ASTM E1886	2005
ASTM E1996	2009
ASTM E330	2002
TAS 201	1994

TAS 202	1994
TAS 203	1994

Equivalence of Product Standards Certified By

Florida Licensed Professional Engineer or Architect
FL16107_R17_Equiv_20200812 - FBC - ASTM 1886-1996 equiv.pdf
FL16107_R17_Equiv_20230712 - FBC - ASTM E330 equiv_s.pdf

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	02/29/2024
Date Validated	02/29/2024
Date Pending FBC Approval	03/06/2024
Date Approved	04/16/2024

Summary of Products

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_R17_II_104724-A-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104724-B-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104710-A-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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		**Installation Instructions** FL16107_R17_II_104710-B-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: 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.		**Evaluation Reports** FL16107_R17_AE_CBPC_121212-A.pdf 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_R17_II_104753-A-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104753-B-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104751-A-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104751-B-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104777-A-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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		**Installation Instructions** FL16107_R17_II_104777-B-Rev04.pdf Verified By: Scott Hamilton FL PE 63286

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.		Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.11	11 6-18 PAN-2F153: 73, 75, 75L, 76, 76V, 84A, 94, 4F, 96, 96V, 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_R17_II_104761-A-Rev07_s.pdf Verified By: Jim Wheeler FL PE 91932 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_AE_CBPC_121212-A.6.pdf Created by Independent Third Party: No
16107.12	12 W6-18 PAN-2F153: 73, 75, 75L, 76, 76V, 84A, 94, 96, 96V, 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_R17_II_104761-B-Rev07_s.pdf Verified By: Jim Wheeler FL PE 91932 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_AE_CBPC_121212-A.6.pdf Created by Independent Third Party: Yes
16107.13	13 W7-18 PAN-2F143: 84A, 94, 4F, 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_R17_II_104762-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_AE_CBPC_121212-A.pdf Created by Independent Third Party: No
16107.14	14 W8-16 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 (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_R17_II_104736-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104754-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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 **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_R17_II_104752-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104778-Rev05.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104779-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104785-A-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_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_R17_II_104785-B-Rev04.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No **Evaluation Reports** FL16107_R17_AE_CBPC_130214-A.pdf Created by Independent Third Party: No

mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click here .

Product Approval Accepts:

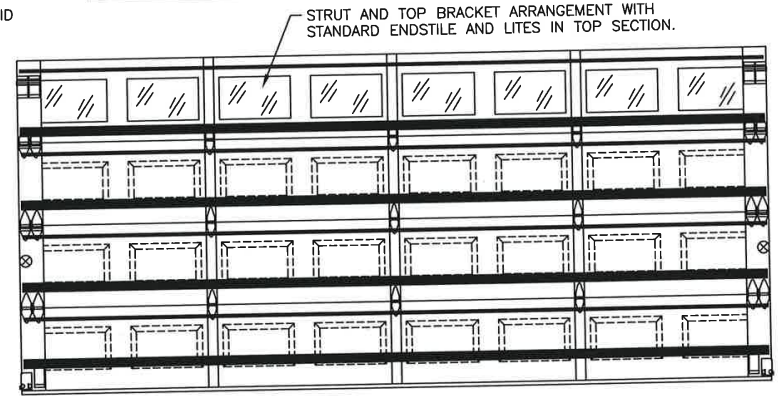
BRAND	EMBOSS TYPE		
	SHORT	LONG	FLUSH
CLOPAY	9200, HDP20	9203, HDPL20	9201, HDPF20
IDEAL	8200	8203	8201
HOLMES	7200	7203	7201

SHEET 1 OF 3

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
02	–	12/20/12	–	SH	ADDED FBC 2612 REFERENCE
03	–	3/5/20	EN2736	SH	REVISED MAX WINDOW SIZE AND TITLE BLOCK
04	–	8/5/20	–	SH	REMOVED WIND CHART

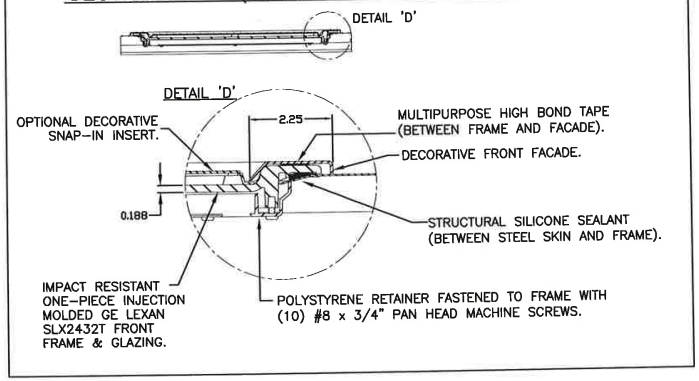
IMPACT-RESISTANT CONSTRUCTION:

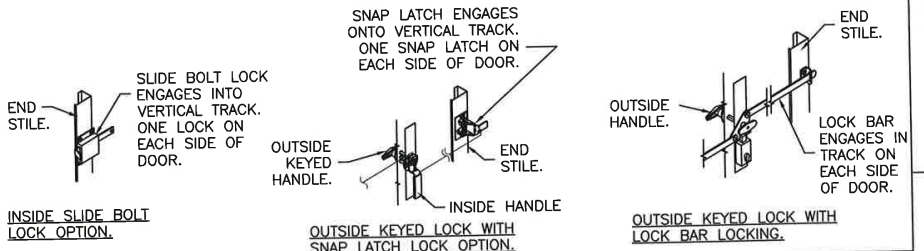
SOLID DOORS (NO GLAZING) OR DOORS WITH OPTIONAL IMPACT-RESISTANT GLAZING ARE IMPACT-RESISTANT. OPTIONAL MAX WINDOW SIZE 19-1/2"x12" INJECTION-MOLDED POLYCARBONATE FRONT FRAME AND GLAZING IS GE LEXAN SLX2432T, AN APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606 AND AN APPROVED C1 PLASTIC IN ACCORDANCE 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)





SCOTT HAMILTON LICENSE No 63286 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/4/12

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. & -75.0 P.S.F.

MANUFACTURING PRODUCT CODE: DSIU-1F171
PART NO.: N/A
WINDLOAD RATING: W8 DP46

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

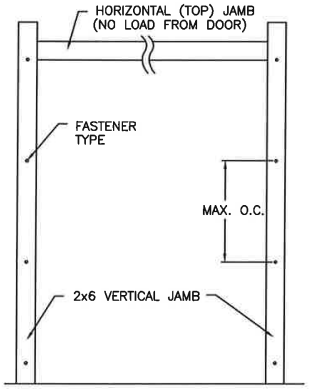
DESCRIPTION: 2" PUR INS. DOORS TO 18'2" (SEE TABLE FOR MODELS)
DRAWN BY: SH | DATE: 11/8/12 | SCALE: NTS | DWG. SIZE B
CHECKED BY: SH | DATE: 11/9/12 | SHEET 1 OF 3
DWG. NO.: 104779 | VER: IBC

FLORIDA PRODUCT APPROVAL 16107

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

SHEET: 2 OF 3

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
04	–	–	–	–	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 +414 LB & −468
3. LB. PER LINEAR FOOT OF JAMB.
4. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
5. 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 MASON.

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

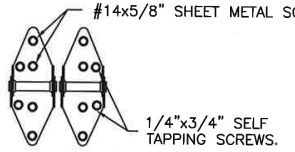
(NOT TO BE USED FOR ATTACHMENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

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	5−1/2"	1" O.D.
3000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	6"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" X 1−3/4" MIN. EMBED WEJ−IT ANKR TITE SLEEVE ANCHOR	12"	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	13"	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.

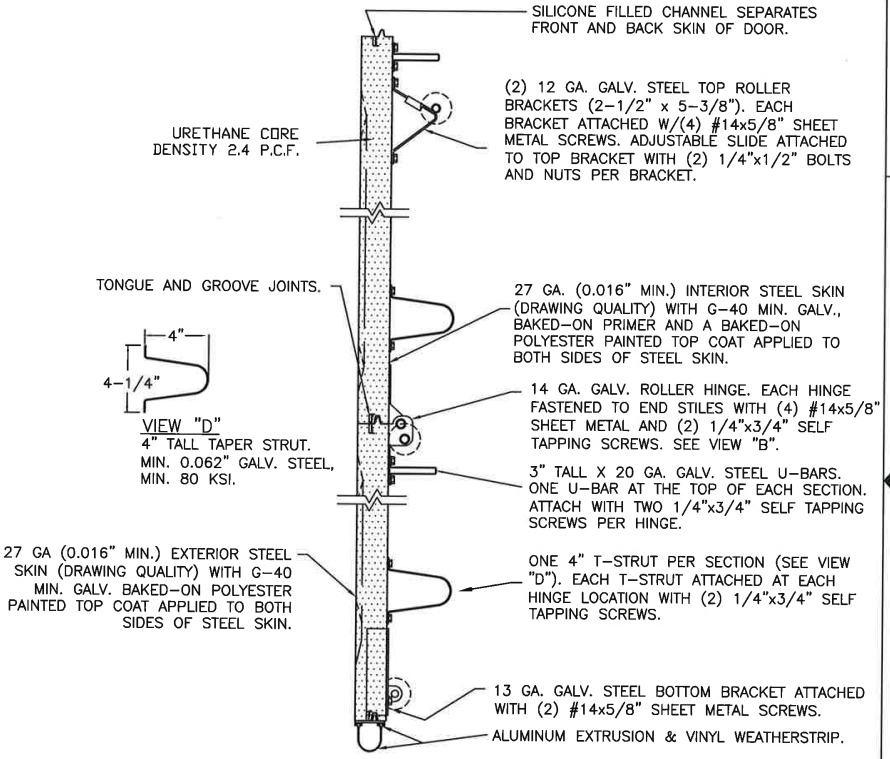
8/11/20

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



14 GA. END HINGES
VIEW "B"

18 GA. (MIN.) INTERMEDIATE HINGE
VIEW "C"



SECTION A−A (SIDE VIEW)

DESIGN LOADS: +46.0 P.S.F. & −50.0 P.S.F.
TEST LOADS: +69.0 P.S.F. & −75.0 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: DSIU−1F171
PART NO.: N/A
WINDLOAD RATING: W8 DP46
DESCRIPTION: 2" PUR INS. DOORS TO 18'2" (SEE TABLE FOR MODELS)
DRAWN BY: SH | DATE: 11/8/12 | SCALE: NTS | DWG. SIZE B
CHECKED BY: SH | DATE: 11/9/12 | SHEET 2 OF 3
DWG. NO.: 104779 | VER: IBC

FLORIDA PRODUCT APPROVAL 16107

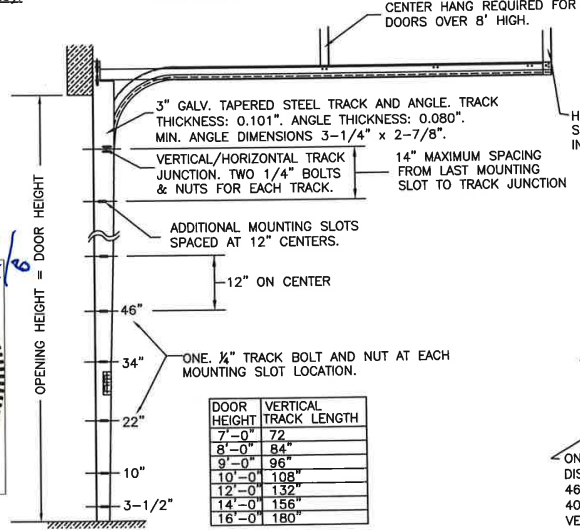
BRAND	EMBOSS TYPE		
	SHORT	LONG	FLUSH
CLOPAY	9200, HDP20	9203, HDPL20	9201, HDPF20
IDEAL	8200	8203	8201
HOLMES	7200	7203	7201

SHEET: 3 OF 3

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

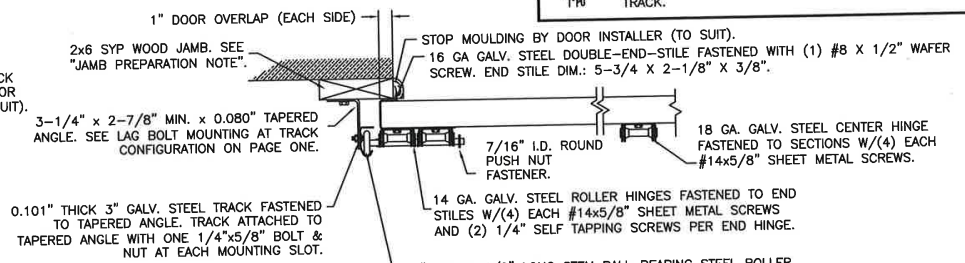
3" TRACK CONFIGURATION (ALL SIZES).

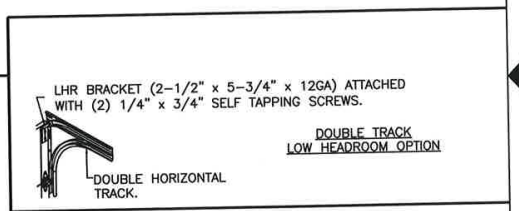
NOTE: TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.

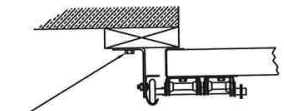


DOOR HEIGHT	VERTICAL TRACK LENGTH
7'-0"	72"
8'-0"	84"
9'-0"	96"
10'-0"	108"
12'-0"	132"
14'-0"	156"
16'-0"	180"

JAMB CONFIGURATION (ALL SIZES).







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. & -75.0 P.S.F.

SCOTT HAMILTON LICENSE No 63286 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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
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DESCRIPTION: 2" PUR INS. DOORS TO 18'2" (SEE TABLE FOR MODELS)
DRAWN BY: SH | DATE: 11/8/12 | SCALE: NTS | DWG. SIZE B
CHECKED BY: SH | DATE: 11/9/12 | SHEET 3 OF 3
DWG. NO.: 104779 | VER: IBC

FLORIDA PRODUCT APPROVAL 16107

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