**Product Approval**
**USER**: Public User





| | |
|---|---|
| FL # | FL16107-R19 |
| Application Type | Revision |
| Code Version | 2023 |
| Application Status | Approved |
| Comments | |
| Archived | ☐ |
| Product Manufacturer | Clopay Building Products Company |
| Address/Phone/Email | 8585 Duke Blvd.<br>Mason, OH 45040<br>(513) 770-4641<br>jwheeler@clopay.com |
| Authorized Signature | Jim Wheeler<br>jwheeler@clopay.com |
| Technical Representative | |
| Address/Phone/Email | |
| Quality Assurance Representative | |
| Address/Phone/Email | |
| Category | Exterior Doors |
| Subcategory | Sectional Exterior Door Assemblies |
| Compliance Method | Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer<br>☐ Evaluation Report - Hardcopy Received |
| Florida Engineer or Architect Name who developed the Evaluation Report | Jim Wheeler |
| Florida License | PE-91932 |
| Quality Assurance Entity | Intertek Testing Services NA, Inc. - QA Entity |
| Quality Assurance Contract Expiration Date | 12/31/2030 |
| Validated By | Gary Pfuehler<br>✓ Validation Checklist - Hardcopy Received |
| Certificate of Independence | FL16107_R19_COI_Certification_of_Independence_of_Validation_Entity-Gary_Pfuehler.pdf<br>FL16107_R19_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_R19_Equiv_20200812 - FBC - ASTM 1886-1996 equiv.pdf
FL16107_R19_Equiv_20230712 - FBC - ASTM E330 equiv_s.pdf

Sections from the Code

Product Approval Method: Method 1 Option D

| | |
|---|---|
| Date Submitted | 10/19/2025 |
| Date Validated | 10/21/2025 |
| Date Pending FBC Approval | 10/22/2025 |
| Date Approved | 12/09/2025 |
| Date Revised | 12/15/2025 |

**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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104724-A-Rev06.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250615-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** No<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** No<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104724-B-Rev06.pdf<br>Verified By: Scott Hamilton FL PE 63286<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CBPC_121212-A.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +36 PSF/-42 PSF | | **Installation Instructions**<br>FL16107_R19_II_104710-A-Rev04.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports** |

| | | |
|---|---|---|
| **Other:** Max. Wind Speed (V_ult): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact). | | FL16107_R19_AE_CCER_250623-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** No<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** No<br>**Design Pressure:** +36 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104710-B-Rev04.pdf<br>Verified By: Scott Hamilton FL PE 63286<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CBPC_121212-A.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104753-A-Rev03.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250623-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** No<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** No<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104753-B-Rev03.pdf<br>Verified By: Scott Hamilton FL PE 63286<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CBPC_121212-A.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104751-A-Rev05.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250615-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** No<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** No<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104751-B-Rev05.pdf<br>Verified By: Scott Hamilton FL PE 63286<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CBPC_121212-A.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104777-A-Rev04.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250615-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** No<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** No<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104777-B-Rev04.pdf<br>Verified By: Scott Hamilton FL PE 63286<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CBPC_121212-A.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +36 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104761-A-Rev07_s.pdf<br>Verified By: Jim Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250623-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** No<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** No<br>**Design Pressure:** +36 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104761-B-Rev07_s.pdf<br>Verified By: Jim Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CBPC_121212-A.6.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +41 PSF/-46 PSF<br>**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**<br>FL16107_R19_II_104762-Rev03.pdf<br>Verified By: Scott Hamilton FL PE 63286<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CBPC_121212-A.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +46 PSF/-52 PSF | | **Installation Instructions**<br>FL16107_R19_II_104736-Rev05.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports** |

| | | |
|---|---|---|
| **Other:** Max. Wind Speed (V_ult): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact). | | FL16107_R19_AE_CCER_250615-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +46 PSF/-50 PSF<br>**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**<br>FL16107_R19_II_104754-Rev03.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250623-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +46 PSF/-50 PSF<br>**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**<br>FL16107_R19_II_104752-Rev05.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250615-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +46 PSF/-52 PSF<br>**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**<br>FL16107_R19_II_104778-Rev05.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250615-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +46 PSF/-50 PSF<br>**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**<br>FL16107_R19_II_104779-Rev04.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CCER_250615-A-01.pdf<br>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**<br>**Approved for use in HVHZ:** Yes<br>**Approved for use outside HVHZ:** Yes<br>**Impact Resistant:** Yes<br>**Design Pressure:** +38 PSF/-42 PSF<br>**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**<br>FL16107_R19_II_104785-A-Rev05.pdf<br>Verified By: James D. Wheeler FL PE 91932<br>Created by Independent Third Party: No<br>**Evaluation Reports**<br>FL16107_R19_AE_CBPC_130214-A-05.pdf<br>Created by Independent Third Party: No |

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|---|---|---|
| 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_R19_II_104785-B-Rev04.pdf
Verified By: Scott Hamilton FL PE 63286
Created by Independent Third Party: No

**Evaluation Reports**
FL16107_R19_AE_CBPC_130214-A.pdf
Created by Independent Third Party: No

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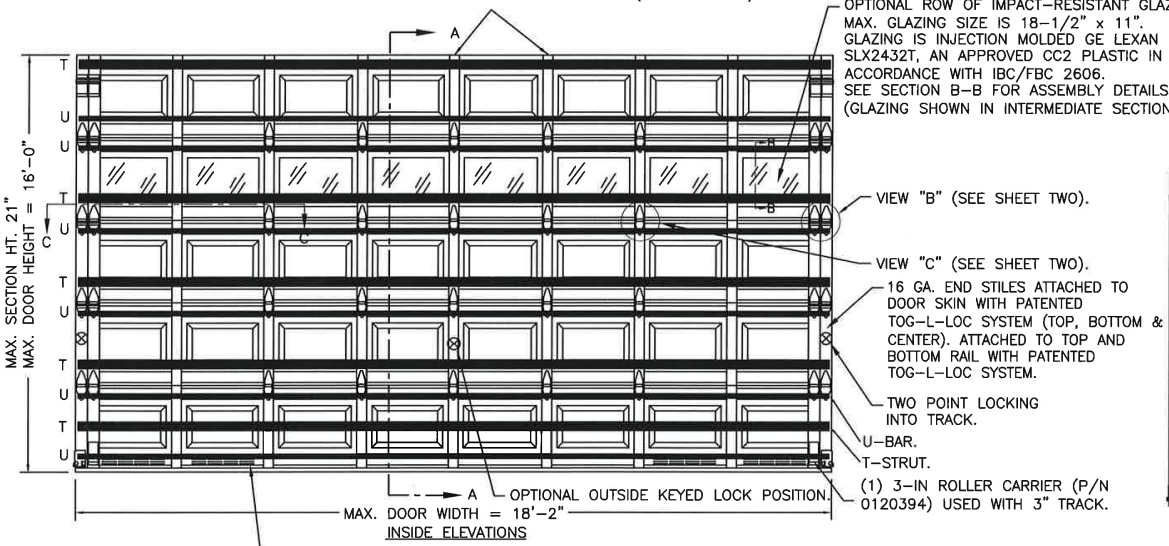
| MODELS | 24 GA SHORT | 24 GA FLUSH |
|---|---|---|
| CLOPAY | 84A, 94 | 98 |
| HOLMES | 48, 48B | -- |
| IDEAL | 4RST | 4F |

SHEET:
1 OF 3

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV. NO. | ZONE: | DATE: | ECN NO. | APPVD: | DESCRIPTION |
| 02 | – | 12/20/12 | – | SH | ADDED FBC 2612 REFERENCE |
| 03 | – | 8/4/20 | – | SH | UPDATED TITLE BLOCK AND REMOVED WIND CHART |

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




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.)

VIEW "B" (SEE SHEET TWO).

VIEW "C" (SEE SHEET TWO).

16 GA. END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM (TOP, BOTTOM & CENTER). ATTACHED TO TOP AND BOTTOM RAIL WITH PATENTED TOG-L-LOC SYSTEM.

TWO POINT LOCKING INTO TRACK.

U-BAR.

T-STRUT.

(1) 3-IN ROLLER CARRIER (P/N 0120394) USED WITH 3" TRACK.

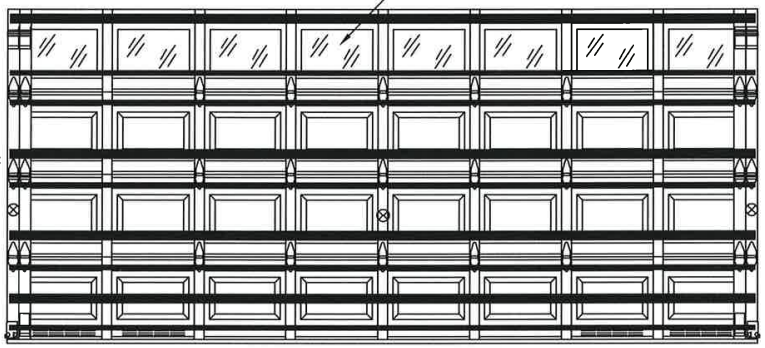
A OPTIONAL OUTSIDE KEYED LOCK POSITION.

LOCATION OF OPTIONAL VENTS. TOTAL VENT OPENINGS: 60 IN² PER VEHICLE.

## IMPACT-RESISTANT CONSTRUCTION:

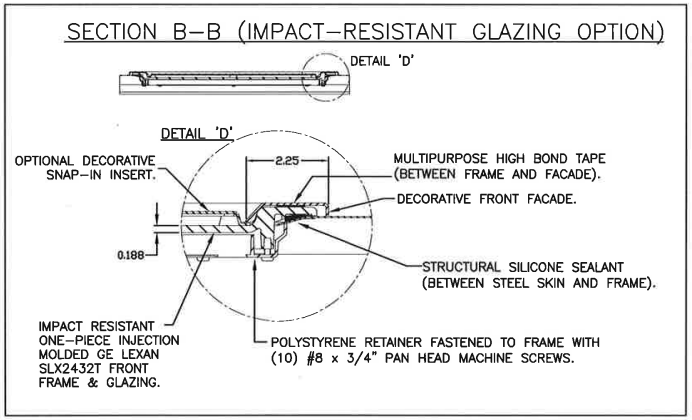
SOLID DOORS (NO GLAZING) OR DOORS WITH OPTIONAL IMPACT-RESISTANT GLAZING ARE IMPACT-RESISTANT. OPTIONAL INJECTION-MOLDED POLYCARBONATE FRONT FRAME AND GLAZING IS GE LEXAN SLX2432T, AN APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606 AND AN APPROVED C1 PLASTIC IN ACCORDANCE WITH FBC 2612. THE ENTIRE 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.

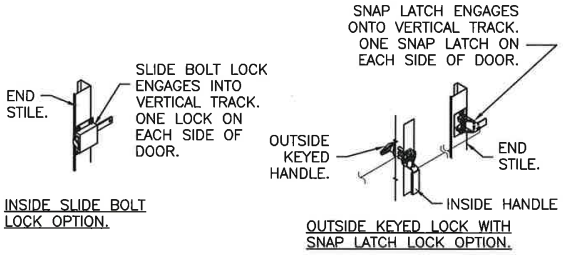
GLAZING SHOWN IN TOP SECTION.



| 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.

SCOTT HAMILTON LICENSE No 63286 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

DESIGN LOADS: +41.0 P.S.F. & -46.0 P.S.F.
TEST LOADS: +61.5 P.S.F. & -69.0 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

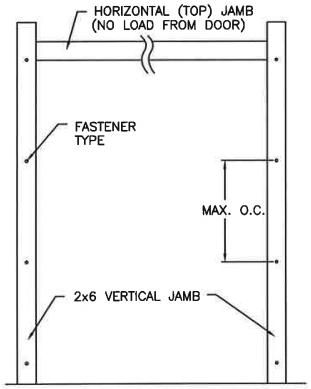
| | | | |
|---|---|---|---|
| MANUFACTURING PRODUCT CODE: PAN-2F143 | | | |
| PART NO.: N/A | | | |
| WINDLOAD RATING: W7 DP41 | | | |
| DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS) | | | |
| DRAWN BY: SH | DATE: 12/3/12 | SCALE: NTS | DWG. SIZE B |
| CHECKED BY: SH | DATE: 12/4/12 | SHEET 1 OF 3 | |
| DWG. NO.: 104762 | | VER: IBC | |

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




## JAMB TO SUPPORTING STRUCTURE ATTACHMENT

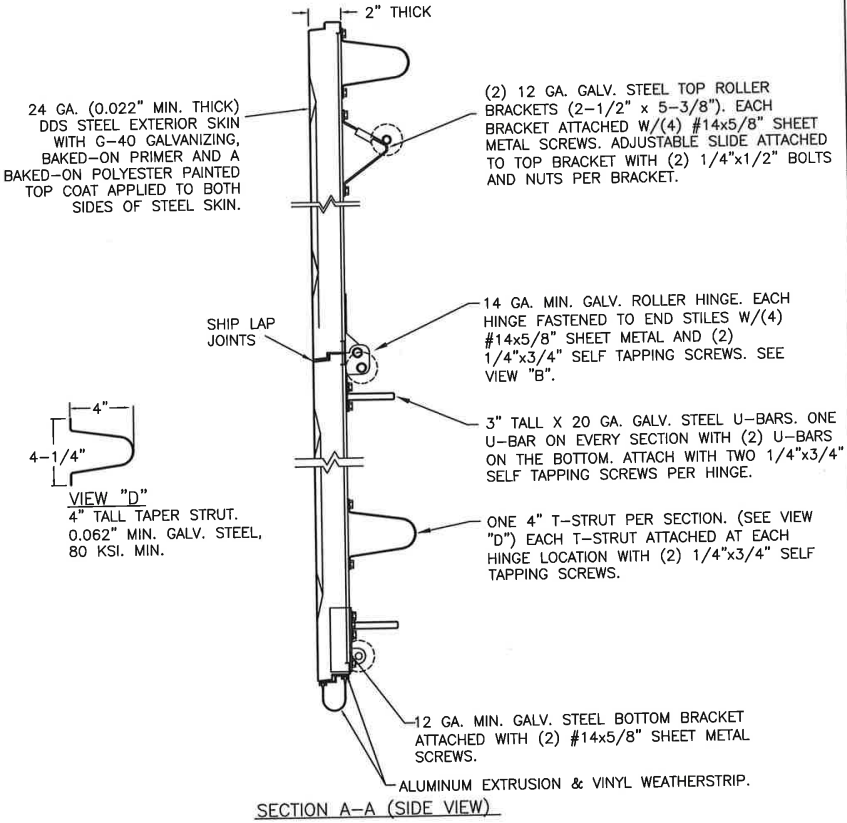
NOTES:
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
2. EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +342 LB & -450 LB. PER LINEAR FOOT OF JAMB.
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 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 | 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.

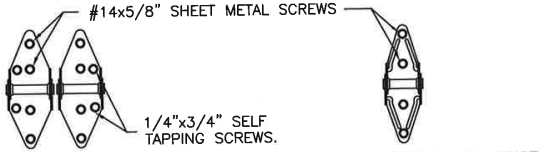






VIEW "D"
4" TALL TAPER STRUT.
0.062" MIN. GALV. STEEL, 80 KSI. MIN.

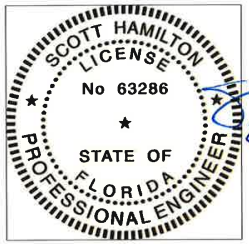
SECTION A-A (SIDE VIEW)




14 GA. END HINGES
VIEW "B"



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




12/4/20

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

DESIGN LOADS: +41.0 P.S.F. & -46.0 P.S.F.
TEST LOADS: +61.5 P.S.F. & -69.0 P.S.F.

MANUFACTURING PRODUCT CODE: PAN-2F143
PART NO.: N/A
WINDLOAD RATING: W7 DP41

Unless Stated Otherwise TOLERANCES are
.0 = ±.031
.00 = ±.015
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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" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)
DRAWN BY: SH | DATE: 12/3/12 | SCALE: NTS | DWG. SIZE B
CHECKED BY: SH | DATE: 12/4/12 | SHEET 2 OF 3
DWG. NO.: 104762 | VER: IBC

FLORIDA PRODUCT APPROVAL 16107

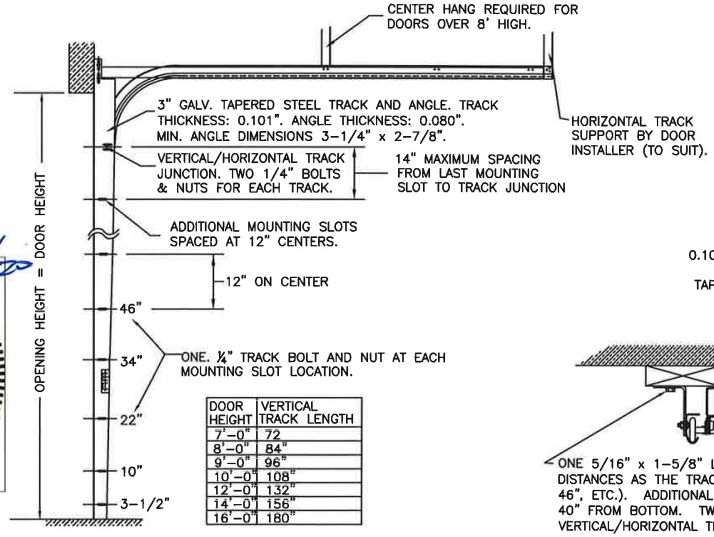
| MODELS | 24 GA SHORT | 24 GA FLUSH |
|---|---|---|
| CLOPAY | 84A, 94 | 98 |
| HOLMES | 48, 48B | -- |
| IDEAL | 4RST | 4F |

SHEET: 3 OF 3

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

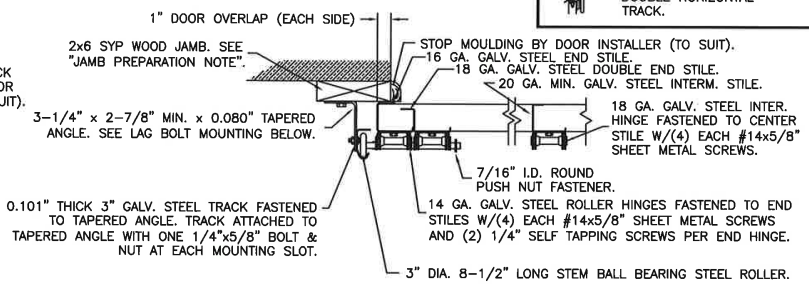
## 3" TRACK CONFIGURATION

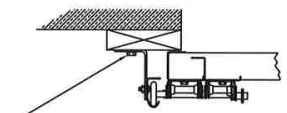
NOTE: TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.



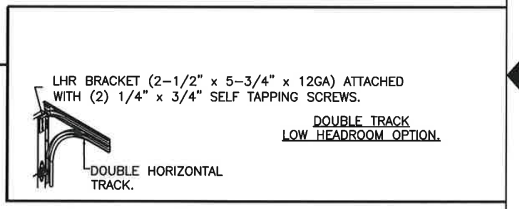

| DOOR HEIGHT | VERTICAL TRACK LENGTH |
|---|---|
| 7'-0" | 72" |
| 8'-0" | 84" |
| 9'-0" | 96" |
| 10'-0" | 108" |
| 12'-0" | 132" |
| 14'-0" | 156" |
| 16'-0" | 180" |

## JAMB CONFIGURATION



ONE 5/16" x 1-5/8" LAG SCREW SPACED AT THE SAME DISTANCES AS THE TRACK BOLTS (I.E. 3-1/2", 10", 22", 34", 46", ETC.). ADDITIONAL LAG SCREWS LOCATED AT 16", 28", & 40" FROM BOTTOM. TWO LAG SCREWS ALSO LOCATED ABOVE VERTICAL/HORIZONTAL TRACK JUNCTION.




SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

DESIGN LOADS: +41.0 P.S.F. & -46.0 P.S.F.
TEST LOADS: +61.5 P.S.F. & -69.0 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
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Degrees = ±1/2°
Unless Stated Otherwise DIMENSIONS ARE IN INCHES.

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

| | | | |
|---|---|---|---|
| MANUFACTURING PRODUCT CODE: PAN-2F143 | | | |
| PART NO.: N/A | | | |
| WINDLOAD RATING: W7 DP41 | | | |
| DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS) | | | |
| DRAWN BY: SH | DATE: 12/3/12 | SCALE: NTS | DWG. SIZE B |
| CHECKED BY: SH | DATE: 12/4/12 | SHEET 3 OF 3 | |
| DWG. NO.: 104762 | | 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