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Product Approval
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OFFICE OF THE SECRETARY

FL #	FL16546-R20						
Application Type	Revision						
Code Version	2023						
Application Status	Approved						
Comments							
Archived	<input type="checkbox"/>						
Product Manufacturer	Clopay Building Products Company						
Address/Phone/Email	8585 Duke Blvd. Mason, OH 45040 (513) 770-4641 jwheeler@clopay.com						
Authorized Signature	Jim Wheeler jwheeler@clopay.com						
Technical Representative							
Address/Phone/Email							
Quality Assurance Representative							
Address/Phone/Email							
Category	Exterior Doors						
Subcategory	Sectional Exterior Door Assemblies						
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received						
Florida Engineer or Architect Name who developed the Evaluation Report	James D. 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 Pfoehler <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received						
Certificate of Independence	FL16546_R20_COI_Certification_of_Independence_of_Validation_Entity-Gary_Pfoehler_2016-02-19.pdf FL16546_R20_COI_Statement_on_Independence_of_Evaluation_Entity-ScottHamilton_2016-02-19.pdf						
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ANSI/DASMA 108</td> <td>2005</td> </tr> <tr> <td>ANSI/DASMA 115</td> <td>2005</td> </tr> </tbody> </table>	Standard	Year	ANSI/DASMA 108	2005	ANSI/DASMA 115	2005
Standard	Year						
ANSI/DASMA 108	2005						
ANSI/DASMA 115	2005						

ASTM 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
[FL16546 R20 Equiv 20200812 - FBC - ASTM 1886-1996 equiv.pdf](#)
[FL16546 R20 Equiv 20230712 - FBC - ASTM E330 equiv s.pdf](#)

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 12/15/2025
 Date Validated 12/15/2025
 Date Pending FBC Approval 12/17/2025
 Date Approved 02/10/2026

Summary of Products

Go to Page 

FL #	Model, Number or Name	Description
16546.41	41 W8-09 DSIUA-1F477: 9208, 9209, HDPC2, HDPCR2, 7208, 7209, 3728, 3729, C7R20 // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series	Double-skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27 ga. min.) Single-Car (up to 9'2" 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: +54 PSF/-62 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 FL16546 R20 II 105024-Rev04.pdf Verified By: James Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 160216-A-07.pdf Created by Independent Third Party: No
16546.42	42 W8-12 DSIUA-1F477: 9208, 9209, HDPC2, HDPCR2, 7208, 7209, 3728, 3729, C7R20 // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series	Double-skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27 ga. min.) up to 12'2" 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: +50 PSF/-56 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 FL16546 R20 II 105050-Rev04.pdf Verified By: James Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 160216-A-07.pdf Created by Independent Third Party: No
16546.43	43 W8-14 DSIUA-1F477: 9208, 9209, HDPC2, HDPCR2, 7208, 7209, 3728, 3729, C7R20 // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series	Double-skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27 ga. min.) up to 14'2" wide WINDCODE® W8 Garage Door with Optional Impact-Resistant Lites

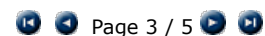
	<p>Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +46 PSF/-52 PSF Other: Max. Wind Speed (V_{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).</p>	<p>Installation Instructions FL16546 R20 II 105019-Rev04.pdf Verified By: James Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 160216-A-07.pdf Created by Independent Third Party: No</p>
<p>16546.44</p>	<p>44 W8-16 DSIUA-1F477: 9208, 9209, HDPCC2, HDPCR2, 7208, 7209, 3728, 3729, C7R20 // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series</p>	<p>Double-skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27 ga. min.) up to 16'2" wide WINDCODE® W8 Garage Door with Optional Impact-Resistant Lites</p>
	<p>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).</p>	<p>Installation Instructions FL16546 R20 II 105002-Rev04.pdf Verified By: James Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 160216-A-07.pdf Created by Independent Third Party: No</p>
<p>16546.45</p>	<p>45 W6-20 DSIE-1F171: 4300, 4301, 4310, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, SP200, SF200, SE200, 6200, 6201, 6203</p>	<p>Double-skin Insulated EPS (exterior skin 27 ga. min.; interior skin 27 ga. min.) up to 20'2" wide WINDCODE® W6 Garage Door with Optional Impact-Resistant Lites</p>
	<p>Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +37 PSF/-40 PSF Other: Max. Wind Speed (V_{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).</p>	<p>Installation Instructions FL16546 R20 II 104943-A-Rev02.pdf Verified By: James D. Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 160216-A-07.pdf Created by Independent Third Party: No</p>
<p>16546.46</p>	<p>46 W6-20 DSIE-1F171: 4300, 4301, 4310, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, SP200, SF200, SE200, 6200, 6201, 6203</p>	<p>Double-skin Insulated EPS (exterior skin 27 ga. min.; interior skin 27 ga. min.) up to 20'2" wide WINDCODE® W6 Garage Door</p>
	<p>Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +37 PSF/-40 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.</p>	<p>Installation Instructions FL16546 R20 II 104943-B-Rev02.pdf Verified By: James D. Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 160216-A-07.pdf Created by Independent Third Party: No</p>
<p>16546.47</p>	<p>47 W5-18 W-1B899: Reserve Collection RHxx</p>	<p>Reserve Wood Double-Car (9'2" To 18'0" wide) WINDCODE® W5 Garage Door</p>
	<p>Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +32 PSF/-36 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.</p>	<p>Installation Instructions FL16546 R20 II 105116-Rev02 s.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A.pdf Created by Independent Third Party: No</p>
<p>16546.48</p>	<p>48 W5-20 PAN-2F143: 84A, 94, 4F, 4RST, 4RSF, 48, 48B</p>	<p>Steel Pan (min. 24 ga.) Double-Car (16'2" to 20'2" wide) WINDCODE® W5 Garage Door</p>
	<p>Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +30 PSF/-32 PSF Other: Doors with standard glazing meet the wind load</p>	<p>Installation Instructions FL16546 R20 II 105101-Rev02 s.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A.pdf</p>

	requirements of the building code but DO NOT meet the impact resistant requirement for windborne debris regions.	Created by Independent Third Party: No
16546.49	49 W8-09 SPO-2F449: Grand Harbor, Evanston, Stone Manor	Steel Pan (min. 24 ga.) with Overlay Single-Car (up to 9'0" wide) WINDCODE® W8 Garage Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50 PSF/-58 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors (no glazing) are impact-resistant (large missile impact).		Installation Instructions FL16546 R20 II 104121-Rev08.pdf Verified By: James Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A-14.pdf Created by Independent Third Party: No
16546.50	50 W8-16 SPO-2F499: Grand Harbor, Evanston, Stone Manor	Steel Pan (min. 24 ga.) with Overlay Double-Car (9'2" to 16'2" wide) WINDCODE® W8 Garage Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +46 PSF/-52 PSF Other: Max. Wind Speed (V _{ult}): 170 MPH. Solid doors (no glazing) are impact-resistant (large missile impact).		Installation Instructions FL16546 R20 II 104791-Rev08.pdf Verified By: James Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A-14.pdf Created by Independent Third Party: No
16546.51	51 W4-18 PAN-2F443: GD4S, GR4S, ED4S, AR4S	Gallery/Artistry/Expressions: Steel Pan (min. 24 ga.) 16'2" to 18'0" wide WINDCODE® W4 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +25 PSF/-25 PSF Other: The product without glazing DOES comply with the impact resistant requirement for windborne debris regions (ref 1609.1.2 FBC).		Installation Instructions FL16546 R20 II 105109-A-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A.pdf Created by Independent Third Party: No
16546.52	52 W4-18 PAN-2F443: GD4S, GR4S, ED4S, AR4S	Gallery/Artistry/Expressions: Steel Pan (min. 24 ga.) 16'2" to 18'0" wide WINDCODE® W4 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +25 PSF/-25 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 FL16546 R20 II 105109-B-Rev03.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A.pdf Created by Independent Third Party: No
16546.53	53 W4-18 PAN-2F446: GD4L, GR4L, ED4L, AR4L, BD4E, BR4E, PR4E, RR4E, BD4N, BR4N, PR4N, RR4N, BD4C, BR4C, PR4C	Gallery/Artistry/Expressions // Bridgeport/Westport/Recessed: Steel Pan (min. 24 ga.) 16'2" to 18'0" wide WINDCODE® W4 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +25 PSF/-25 PSF Other: The product without glazing DOES comply with the impact resistant requirement for windborne debris regions (ref 1609.1.2 FBC).		Installation Instructions FL16546 R20 II 105109-A-Rev05.pdf Verified By: James D. Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A-15.pdf Created by Independent Third Party: No
16546.54	54 W4-18 PAN-2F446: GD4L, GR4L, ED4L, AR4L, BD4E, BR4E, PR4E, RR4E, BD4N, BR4N, PR4N, RR4N, BD4C, BR4C, PR4C	Gallery/Artistry/Expressions // Bridgeport/Westport/Recessed: Steel Pan (min. 24 ga.) 16'2" to 18'0" wide WINDCODE® W4 Garage Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +25 PSF/-25 PSF Other: Doors with standard glazing meet the wind load requirements of the building code but DO NOT meet the		Installation Instructions FL16546 R20 II 105109-B-Rev05.pdf Verified By: James D. Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A-15.pdf Created by Independent Third Party: No

impact resistant requirement for windborne debris regions.		
16546.55	55 W6-18 DSIUA-1F477: 9208, 9209, HDPC2, HDPCR2, 7208, 7209, 3728, 3729, C7R20 // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series	Double-skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double-Car (up 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 FL16546 R20 II 105188-A-Rev03.pdf Verified By: James Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 160216-A-07.pdf Created by Independent Third Party: No
16546.56	56 W6-18 DSIUA-1F477: 9208, 9209, HDPC2, HDPCR2, 7208, 7209, 3728, 3729, C7R20 // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series	Double-skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27 ga. min.) Double-Car (up 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 FL16546 R20 II 105188-B-Rev02.pdf Verified By: James D. Wheeler FL PE 91932 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 160216-A-07.pdf Created by Independent Third Party: No
16546.57	57 W6-10 DSIUO-1K749: Canyon Ridge / Glenmoor / Custom Wood-Look // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series // Coachman / Settlers / Affinity	Double Skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27ga. min.) with Overlay Single-Car (9'2" to 10'0" 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/-44 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 FL16546 R20 II 105421-A-Rev01.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 141219-B.pdf Created by Independent Third Party: No
16546.58	58 W6-10 DSIUO-1K749: Canyon Ridge / Glenmoor / Custom Wood-Look // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series // Coachman / Settlers / Affinity	Double Skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27ga. min.) with Overlay Single-Car (9'2" to 10'0" 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/-44 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 FL16546 R20 II 105421-B-Rev01.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 141219-B.pdf Created by Independent Third Party: No
16546.59	59 W8-10 DSIUO-1K749: Canyon Ridge / Glenmoor / Custom Wood-Look // Canyon Ridge Modern Series / Glenmoor Modern Series / Custom Wood-Look Modern Series // Coachman / Settlers / Affinity	Double Skin Insulated Intellicore (exterior skin 27 ga. min.; interior skin 27ga. min.) with Overlay Single-Car (9'2" to 10'0" wide) WINDCODE® W8 Garage Door with optional Impact-Resistant Lites
Limits of Use		Installation Instructions

<p>Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +54 PSF/-60 PSF Other: Max. Wind Speed (V_{ult}): 170 MPH. Solid doors or doors with optional impact-resistant glazing are impact-resistant (large missile impact).</p>	<p>FL16546 R20 II 105391-Rev01.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 141219-B.pdf Created by Independent Third Party: No</p>	
<p>16546.60</p>	<p>60 W4-16 PAN-2F441: 4F4</p>	<p>Modern Steel: Steel Pan (min. 24 ga.) 9'2" to 16'0" wide WINDCODE® W4 Garage Door</p>
<p>Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +25 PSF/-25 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.</p>	<p>Installation Instructions FL16546 R20 II 105430-Rev02 s.pdf Verified By: Scott Hamilton FL PE 63286 Created by Independent Third Party: No Evaluation Reports FL16546 R20 AE CBPC 131211-A.pdf Created by Independent Third Party: No</p>	

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Product Approval Accepts:



BRAND	MODERN STEEL		COMMERCIAL DOORS	
	FLUSH	GROOVED	FLUSH	GROOVED
CLOPAY	9208, HDPC2	9209, HDPCR2	3728	3729
HOLMES	7208	7209	--	C7R20

REV. NO.	ZONE	DATE	ECN NO.	APPVD	DESCRIPTION
02	-	6/14/17	-	SH	ADDED CRM MODELS.
03	-	8/6/20	-	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART.
04	-	10/3/25	-	JDW	UPDATED IMPACT RESISTANT WINDOW DETAILS.

SEE SHEET 5 FOR "CANYON RIDGE MODERN SERIES" MODELS.

MIXED GLAZING SHOWN.

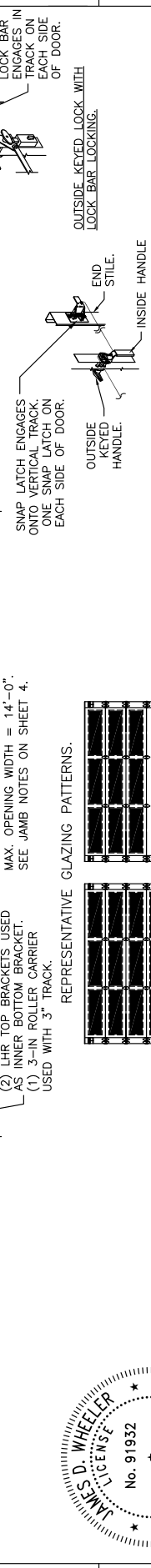
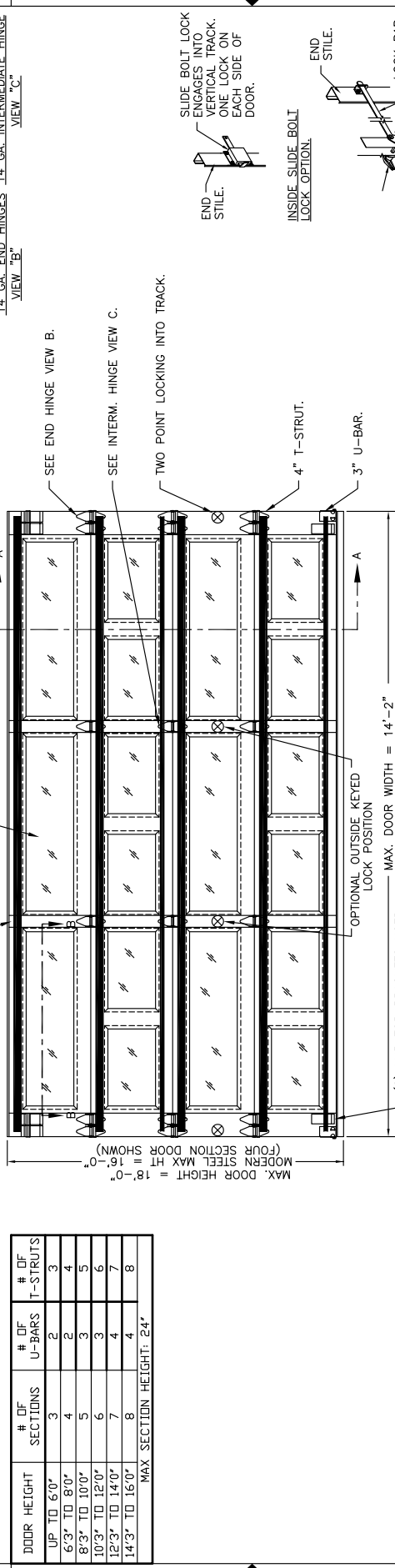
OPTIONAL IMPACT RESISTANT GLAZING. MAXIMUM GLAZING SIZE (OLO) IS 39" W x 113" H. GLAZING MAY BE SHORTER THAN 1/4" SECTION PLE. SEE SECTION PLE ON SHEET 2 FOR DETAILS. GLAZING MAY BE INSTALLED IN ANY LOCATION IN ANY OR ALL SECTIONS.

(1) 20 GA. BACKER EXTERNAL PLATE AT EACH INTERMEDIATE HINGE LOCATION, ATTACHED WITH DOUBLE SIDED ACRYLIC ADHESIVE TO BACK OF DOOR.

1/4" x 3/4" SELF TAPPING SCREWS.

#14 x 5/8" SHEET METAL SCREWS

14 GA. END HINGES 14 GA. INTERMEDIATE HINGE



DESIGN LOADS: +46.0 P.S.F. & -52.0 P.S.F.	MANUFACTURING PRODUCT CODE
TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.	DS1UA-1F477
Unless Stated Otherwise	PART NO.: N/A
TOLERANCES are	WINDLOAD RATING
0 = ± 0.31	W8 DP46T
.00 = ± 0.15	DESCRIPTION: MODERN STEEL 2" INTELLICORE +46/-52 PSF TO 14' W
.000 = ± 0.05	DRAWN BY: SH
.0000 = ± 0.01	CHECKED BY: --
Unless Stated Otherwise	DATE: 12/2015
DIMENSIONS ARE IN INCHES. DWG. NO.: T05019	SCALE: NTS
	SHEET 1 OF 5
	SIZE: B
	VER: IBC

GLAZING MAY BE IN ANY LOCATION IN ANY OR ALL SECTIONS. THESE PATTERNS ARE REPRESENTATIVE OF THE APPROVED CONFIGURATIONS. NOT ALL CONFIGURATIONS ARE AVAILABLE AS STANDARD PRODUCT. CONSULT FACTORY FOR DETAILS.

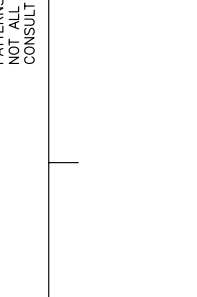
REPRESENTATIVE GLAZING PATTERNS.

MAX. DOOR WIDTH = 14'-2"
MAX. OPENING WIDTH = 14'-0"
SEE JAMB NOTES ON SHEET 4.

(2) LHR TOP BRACKETS USED AS INNER BOTTOM BRACKET.
(1) 3-IN. ROLLER CARRIER USED WITH 3" TRACK.

DOOR HEIGHT	# OF SECTIONS	# OF U-BARS	# OF T-STRUITS
UP TO 6'0"	3	2	3
6'3" TO 8'0"	4	2	4
8'3" TO 10'0"	5	3	5
10'3" TO 12'0"	6	3	6
12'3" TO 14'0"	7	4	7
14'3" TO 16'0"	8	4	8

MAX SECTION HEIGHT: 24'



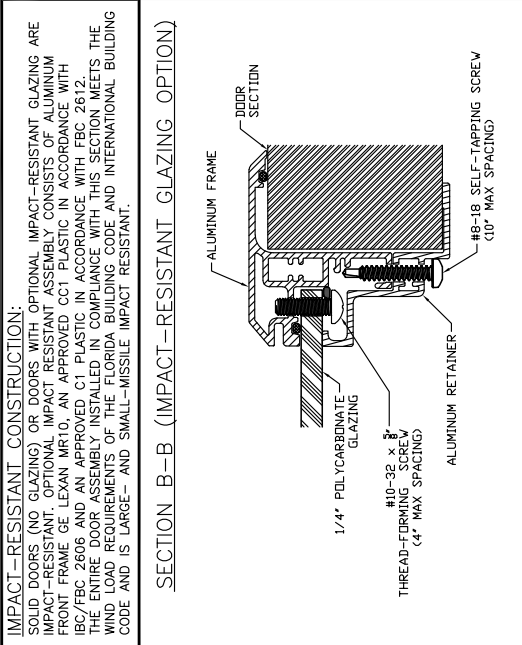
DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

4 3 2 1

BRAND	MODERN STEEL		COMMERCIAL DOORS	
	FLUSH	GROOVED	FLUSH	GROOVED
CLOPAY	9208, HDPC2	9209, HDPC2	3728	3729
HOLMES	7208	7209	--	C7R20

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

SHEET: 2 OF 5
 SEE SHEET 5 FOR "CANYON RIDGE MODERN SERIES" MODELS.



DESIGN LOADS: +46.0 P.S.F. & -52.0 P.S.F. TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.	8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4853 Fax. No. 513-770-4853	MANUFACTURING PRODUCT CODE DSIUA-1F477
Unless Stated Otherwise TOLERANCES are 0 = ± 0.31 .00 = ± 0.15 .000 = ± 0.05 .0000 = ± 0.01 Degrees = ± 1/2° Unless Stated Otherwise DIMENSIONS ARE IN INCHES.	Glopay CORPORATION DESCRIPTION: MODERN STEEL 2" INTELLICORE +46/-52 PSF TO 14' W DRAWN BY: SH CHECKED BY: -- DATE: 12/2015 DATE: --	PART NO.: N/A WINDLOAD RATING W8 DP46T SCALE: NTS SHEET 2 OF 5 SIZE: B
		VER: IBC

DESIGN ENGINEER:
 JAMES D. WHEELER, P.E.
 FLORIDA LICENSE No. 91932

2 FLORIDA PRODUCT APPROVAL 16546

REV. NO.	ZONE	DATE	ECN NO.	APPROV.	DESCRIPTION
04					SEE REVISION HISTORY ON SHEET ONE.

REV. NO.	ZONE	DATE	ECN NO.	APPROV.	DESCRIPTION
04					SEE REVISION HISTORY ON SHEET ONE.

REV. NO.	ZONE	DATE	ECN NO.	APPROV.	DESCRIPTION
04					SEE REVISION HISTORY ON SHEET ONE.

REV. NO.	ZONE	DATE	ECN NO.	APPROV.	DESCRIPTION
04					SEE REVISION HISTORY ON SHEET ONE.

REV. NO.	ZONE	DATE	ECN NO.	APPROV.	DESCRIPTION
04					SEE REVISION HISTORY ON SHEET ONE.

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04					SEE REVISION HISTORY ON SHEET ONE.

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04					SEE REVISION HISTORY ON SHEET ONE.

REV. NO.	ZONE	DATE	ECN NO.	APPROV.	DESCRIPTION
04					SEE REVISION HISTORY ON SHEET ONE.

SECTION A-A (SIDE VIEW)



DESIGN LOADS: +46.0 P.S.F. & -52.0 P.S.F.
 TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.

UNLESS STATED OTHERWISE TOLERANCES ARE:
 0 = ± 0.31
 .00 = ± 0.15
 .000 = ± 0.05
 .0000 = ± 0.01
 Degrees = ± 1/2
 DIMENSIONS ARE IN INCHES.

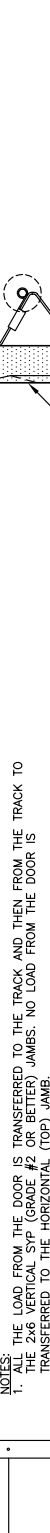
MANUFACTURING PRODUCT CODE
 DS1UA-1F477
 PART NO.: N/A
 WINDLOAD RATING
W8 DP46T
 DESCRIPTION: MODERN STEEL 2" INTELLICORE +46/-52 PSF TO 14' W
 DRAWN BY: SH DATE: 12/2015 SCALE: NTS DWG. B
 CHECKED BY: -- DATE: -- SHEET 3 OF 5 SIZE B
 VER: IBC
 DWG. NO.: 105019

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

OTHER JAMB CONFIGURATIONS: REFER TO DASMA TDS-161. A LICENSED DESIGN PROFESSIONAL MAY ALSO BE EMPLOYED TO APPROVE ALTERNATE FASTENERS AND/OR JAMB CONFIGURATIONS.

DESIGN ENGINEER:
 JAMES D. WHEELER, P.E.
 FLORIDA LICENSE No. 91932

JAMB TO SUPPORTING STRUCTURE ATTACHMENT



NOTES: THE LOAD FROM THE TRACK IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL JAMB (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 +322 LB & -364 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. FOR WIND LOAD, WAS NOT USED IN THE CALCULATION OF ALLOWABLE FASTENERS.
 4. LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

NOTES: 2x6 WOOD JAMBS ARE NOT REQUIRED WITH CONTINUOUS ANGLE MOUNT TRACK. HOWEVER, IF DESIRED, ON STEEL JAMBS OR CONCRETE OR BLOCK WALLS, APPROVED FASTENERS AS DETAILED BELOW SHOULD BE INCREASED IN LENGTH BY 1-1/2" AND INSTALLED DIRECTLY THROUGH THE ANGLE AND 2x6 WOOD JAMBS INTO THE STEEL JAMBS OR CONCRETE OR BLOCK WALLS. ANCHORS CAN BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE. CONTINUOUS ANGLE TRACK CAN BE ANCHORED DIRECTLY TO GROUT REINFORCED BLOCK WALL OR 3,000 PSI MIN. CONCRETE COLUMN OR STEEL JAMBS.

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT



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

BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED
HOLLOW CMU BLOCK WALL	1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	5'	1' O.D.
GROUT-FILLED CMU BLOCK	1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	8 1/2"	1' O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	7 1/4"	1' O.D.
2000 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 WE-J-IT ANKR TITE SLEEVE ANCHOR	15 1/2"	INCLUDED
4000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WE-J-IT ANKR TITE SLEEVE ANCHOR	24"	INCLUDED
WOOD FRAME (SYP 0.55 SD)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A), 1-5/8" EMBED INTO STRUCTURE	16 3/4"	1' O.D.
16GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	7"	1' O.D.
18GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	12 1/4"	1' O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	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.
 CLOPAY DISTANCE BETWEEN FASTENERS IS 1'-0".
 TAPCON -- MINIMUM EDGE DISTANCE FOR TAPCON FASTENER IS 1-1/4". EXCLUDING STUCCO THICKNESS. EXCEPTION FOR TAPCON -- MINIMUM EDGE DISTANCE FOR TAPCON FASTENER IS 1-1/4". EXCLUDING STUCCO THICKNESS.

OTHER JAMB CONFIGURATIONS: REFER TO DASMA TDS-161. A LICENSED DESIGN PROFESSIONAL MAY ALSO BE EMPLOYED TO APPROVE ALTERNATE FASTENERS AND/OR JAMB CONFIGURATIONS.

DESIGN ENGINEER:
 JAMES D. WHEELER, P.E.
 FLORIDA LICENSE No. 91932

2 FLORIDA PRODUCT APPROVAL 16546

SECTION A-A (SIDE VIEW)



DESIGN LOADS: +46.0 P.S.F. & -52.0 P.S.F.
 TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.

UNLESS STATED OTHERWISE TOLERANCES ARE:
 0 = ± 0.31
 .00 = ± 0.15
 .000 = ± 0.05
 .0000 = ± 0.01
 Degrees = ± 1/2
 DIMENSIONS ARE IN INCHES.

MANUFACTURING PRODUCT CODE
 DS1UA-1F477
 PART NO.: N/A
 WINDLOAD RATING
W8 DP46T
 DESCRIPTION: MODERN STEEL 2" INTELLICORE +46/-52 PSF TO 14' W
 DRAWN BY: SH DATE: 12/2015 SCALE: NTS DWG. B
 CHECKED BY: -- DATE: -- SHEET 3 OF 5 SIZE B
 VER: IBC
 DWG. NO.: 105019

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 Mason, OH 45040 USA
 CLOPAY CORPORATION
 Tel. No. 513-770-4853
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DESIGN ENGINEER:
 JAMES D. WHEELER, P.E.
 FLORIDA LICENSE No. 91932

2 FLORIDA PRODUCT APPROVAL 16546



DESIGN LOADS: +46.0 P.S.F. & -52.0 P.S.F.
 TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.

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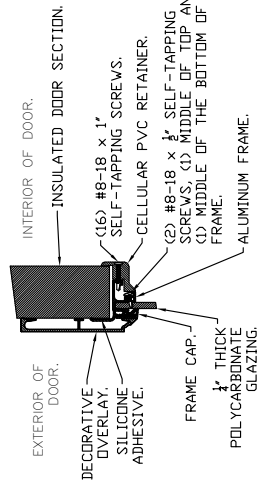
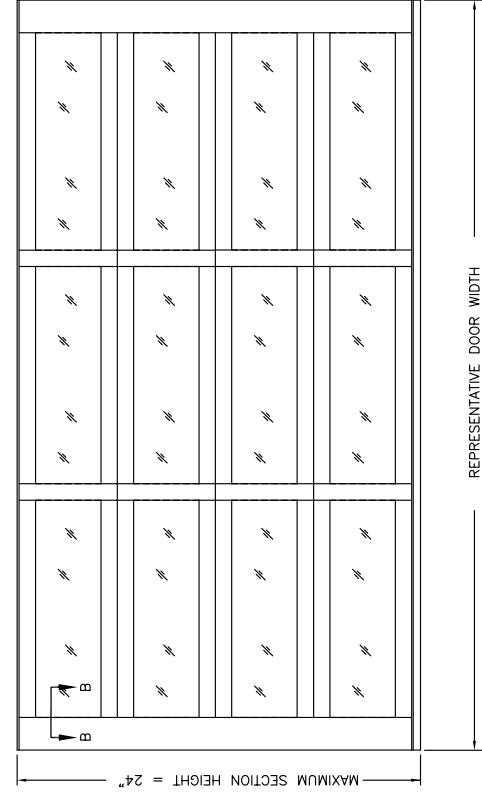
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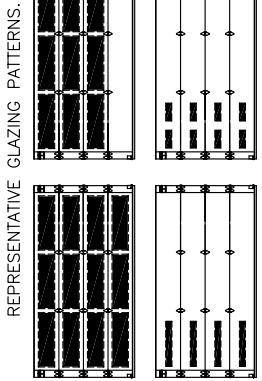
DESIGN ENGINEER:
 JAMES D. WHEELER, P.E.
 FLORIDA LICENSE No. 91932

CLOPAY 'CANYON RIDGE MODERN SERIES': CRM2nnn		DESCRIPTION	
HOLMES 'GLENMOOR MODERN SERIES': GLM2nnn		SEE REVISION HISTORY ON SHEET ONE.	
IDEAL 'CUSTOM CRAFTED MODERN WOOD-LOOK' SERIES: WLM2nnn			
REV. NO. 04	ZONE: -	DATE: -	ECN NO.: -
SHEET: 5 OF 5		REVISIONS	

FULL VISION GLAZING SHOWN.
 OPTIONAL GLAZING IS IMPACT RESISTANT GLAZING. MAXIMUM GLAZING SIZE (DLO) IS 50-1/4" x 33-1/4". GLAZING MAY BE FULL VISION GLAZING OR PLANK OR DWG-PLANK. SEE SECTION B-B ON SHEET 5 FOR IMPACT RESISTANT DETAILS OR SECTION B-B ON SHEET 2 FOR STANDARD CONSTRUCTION. GLAZING MAY BE INSTALLED IN ANY LOCATION IN ANY OR ALL SECTIONS.



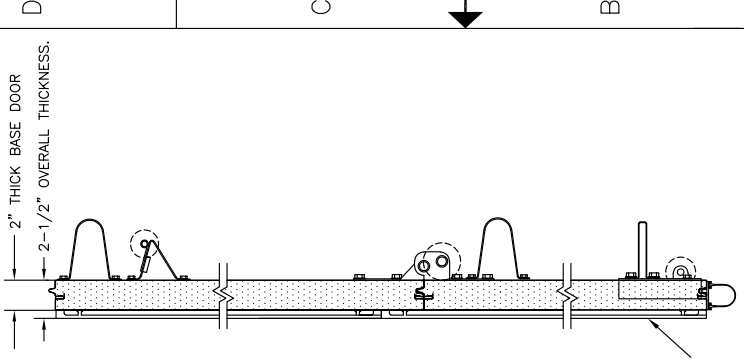
NOTES:
 1. 'CANYON RIDGE' TYPE DOORS USE THE SAME REINFORCEMENTS AND BASE SECTION CONSTRUCTION AND TRACK CONFIGURATION DESCRIBED ON SHEETS 1-4 OF THIS DRAWING.
 2. 'CANYON RIDGE' TYPE DOORS ARE IMPACT RESISTANT WITH IMPACT RESISTANT GLAZING AND FRAME AS SHOWN IN DETAIL B-B ABOVE.



GLAZING MAY BE IN ANY LOCATION IN ANY OR ALL SECTIONS. THESE PATTERNS ARE REPRESENTATIVE OF THE APPROVED CONFIGURATIONS. NOT ALL CONFIGURATIONS ARE AVAILABLE AS STANDARD PRODUCT. CONSULT FACTORY FOR DETAILS.

CANYON-RIDGE TYPE MODERN SERIES: HIGH DENSITY MOLDED COMPOSITE CLADDING OR OVERLAYS ADHERED TO OUTSIDE SKIN WITH PERMANENT ADHESIVE.

SECTION A-A (SIDE VIEW)



DESIGN LOADS: +46.0 P.S.F. & -52.0 P.S.F.	MANUFACTURING PRODUCT CODE
TEST LOADS: +69.0 P.S.F. & -78.0 P.S.F.	DS1UA-1F477
Unless Stated Otherwise	PART NO.: N/A
TOLERANCES are	WINDLOAD RATING
0 = ± 0.31	W8 DP46T
.00 = ± 0.15	DESCRIPTION: MODERN STEEL 2" INTELLICORE +48/-52 PSF TO 14' W
.000 = ± 0.005	DRAWN BY: SH
.0000 = ± 0.001	CHECKED BY: --
Degrees = ± 1/2"	DATE: 12/2015
Unless Stated Otherwise	SCALE: NTS
DIMENSIONS ARE IN INCHES.	SHEET 5 OF 5
	SIZE: B
	VER: IBC

DESIGN ENGINEER:
 JAMES D. WHEELER, P.E.
 FLORIDA LICENSE No. 91932

February 16, 2016 (revised 10/21/25)

Evaluation Report for Clopay Corporation Modern Steel Full Vision Sectional Garage Doors, W4 and Modern Steel Impact Resistant Full Vision Sectional Garage Doors, W4 W6 and 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 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 and CBPC-ATC. Component testing was conducted by HETI and ETC.

For the doors listed in Tables 1 and 2, Static Pressure Tests were conducted in accordance with TAS 202-1994, ASTM-E330-2002 and ANSI/DASMA 108-2005. Missile Impact and Cyclic Pressure Tests were conducted in accordance with TAS 201-1994 and TAS 203-1994 and ASTM E1886-2005 and ASTM E1996-2009 and ANSI/DASMA 115-2005. The pressures listed on the drawings are either direct results of these tests or results obtained through engineering rational analysis based on actual tests. I have concluded that the sectional garage door designs listed below in Tables 1 and 2 are in compliance with the 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) DSIUA-1F477:

104859-A-Rev03,	max. door size 9'0" x 18'0";	+38/-42 PSF (design load)
105042-A-Rev03,	max. door size 16'2" x 18'0";	+38/-42 PSF (design load)
105188-A-Rev02,	max. door size 18'2" x 18'0";	+38/-42 PSF (design load)
105024-Rev03,	max. door size 9'0" x 18'0";	+54/-60 PSF (design load)
105050-Rev03,	max. door size 12'2" x 18'0";	+50/-56 PSF (design load)
105019-Rev03,	max. door size 14'2" x 18'0";	+46/-52 PSF (design load)
105002-Rev03,	max. door size 16'2" x 18'0";	+46/-52 PSF (design load)

TABLE 2: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F171:

104943-A-Rev02,	max. door size 20'2" x 18'0";	+37/-40 PSF (design load)
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For the doors in Tables 3 and 4, 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 sectional garage door designs listed below in Tables 3 and 4 are in compliance with the wind load test requirements of the Florida Building Code.

TABLE 3: Drawings for doors with Manufacturing Product Code (MPC) DSIUA-1F477:

105868-Rev00,	max. door size 9'2" x 20'0";	+25/-25 PSF (design load)
105898-Rev00,	max. door size 16'2" x 20'0";	+26/-28 PSF (design load)
105847-Rev00,	max. door size 18'2" x 20'0";	+25/-25 PSF (design load)
105894-Rev00,	max. door size 20'2" x 20'0";	+25/-25 PSF (design load)
104859-B-Rev03,	max. door size 9'0" x 18'0";	+38/-42 PSF (design load)

105042-B-Rev03, max. door size 16'2" x 18'0"; +38/-42 PSF (design load)
105188-B-Rev02, max. door size 18'2" x 18'0"; +38/-42 PSF (design load)

TABLE 4: Drawings for doors with Manufacturing Product Code (MPC) DSIE-1F171:
104943-B-Rev02, max. door size 20'2" x 18'0"; +37/-40 PSF (design load)

Test Reports:

The following test reports are based on testing conducted by American Test Lab at their North Carolina Facility: 0223.01-15R (04/16/15), 0727.01-15 (08/11/15), 0824.02-15 (09/01/15), 0824.01-15 (09/01/15), 0514.01-15 (05/27/15), 0330.01-15 (04/16/15), 1214.01-15 (02/05/16), 1213.01-16 (12/21/16), 0909.01-25 (10/15/25). These reports document compliance with the TAS testing standards and are signed and sealed by David Johnson, FL PE 61915.

The following test reports are based on testing conducted by Clopay Building Products at their Mason testing facility (accredited by ANAB for ASTM E330 and ANSI/DASMA 108 testing): CBPC-ATC 14-032 (01/16/15), 14-015 (7/17/14), 15-016 (07/17/15), 16-019 (108-16), 16-018 (2/14/23), 22-001 (2/14/23), 22-028 (2/14/23), and 22-029 (2/14/23).

Product Description for doors with MPC DSIUA-1F477:

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 24". Glazing is permitted in any or all panels in any or all sections. These sections may have optional decorative overlays. These doors may have optional Impact-Resistant Glazing (Aluminum). Optional Impact-Resistant Glazing is an aluminum front frame and a separate polycarbonate glazing. The following models are at least structurally equivalent to the tested door: 9208, 9209, HDPC2, HDPCR2, 7208, 7209, 3728, 3729, C7R20. The following "Canyon Ridge Modern Series" models have optional decorative overlays and are at least structurally equivalent to the tested door: Canyon Ridge Modern Series CRM2nnn, Glenmoor Modern GLM2nnn, Custom Wood-Look Modern WLM2nnn. Note that 'nnn' represents the type and arrangement of the decorative overlays. Not all models may be shown on a given drawing.

Product Description for doors with MPC DSIE-1F171:

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

Impact Resistant Glazing (Aluminum):

The optional impact resistant glazing consists of an aluminum front frame and aluminum interior retainer encasing a polycarbonate glazing that is an approved C1 plastic in accordance with testing required by FBC-B 2606 and complies with FBC-B

2615 testing requirements. Approved polycarbonate materials are Sabic IP Lexan 9034 (versions also approved: MR10, XL-10) and Plaskolite TUFFAK AR (TUFFAK versions also approved: SL, GP). Approval based on review of NOA 24-1023.03 (Sabic) and NOA 24-0205.09 (Plaskolite) and manufacturer's product datasheets.

Impact Resistant Glazing (Molded):

The optional impact resistant glazing is an injection-molded polycarbonate front frame and glazing (LEXAN SLX2432T) that is an approved C1 plastic in accordance with testing required by FBC-B 2606. FBC-B 2615 compliance based on review of the following tests:

HETI-06-A002 ASTM G155; HETI-06-T566 ASTM D638 (before); HETI-06-T634 ASTM D638 (after); ETC-06-1024-17496.0 ASTM D2843, ASTM D635, ASTM D1929.

Non-Impact Resistant Glazing:

The optional non-impact resistant glazing is a screw-together plastic frame and a separate glass glazing in compliance with the ASTM E1300 requirements of FBC-B Section 2404.

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.

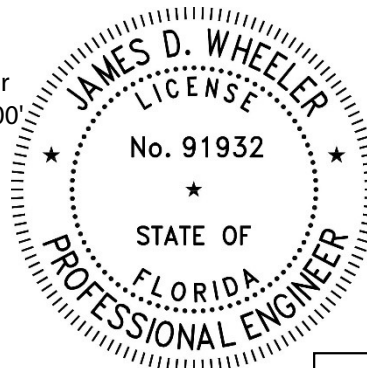
Jambs, lintels, sills or other structural elements required to prepare openings are not covered. The design of the supporting structural elements shall be the responsibility of the professional of record for the building or structure and in accordance with current building codes for the loads listed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

Digitally signed by Jim Wheeler
Date: 2025.10.21 09:50:52 -04'00'

James D. Wheeler, P.E.
Florida P.E. #91932
Senior Project Engineer
Clipay Corporation



This document has been digitally signed and is valid without a physical signature. Third-party verification embedded in the PDF can attest that the document has not been changed since it was signed. The printed document is just a copy and cannot be verified.