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Product Approval
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FL #	FL27402-R1						
Application Type	Revision						
Code Version	2017						
Application Status	Approved						
Comments							
Archived	☐						
Product Manufacturer	Carports Anywhere						
Address/Phone/Email	10858 S.E. County Road 221 Starke, FL (352) 468-1116 bodom@carportsanywhere.com						
Authorized Signature	Brandie Odom bodom@carportsanywhere.com						
Technical Representative							
Address/Phone/Email							
Quality Assurance Representative							
Address/Phone/Email							
Category	Structural Components						
Subcategory	Roof Deck						
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	Terrence E. Wolfe						
Florida License	PE-44923						
Quality Assurance Entity	PRI Construction Materials Technologies, LLC.						
Quality Assurance Contract Expiration Date	06/23/2023						
Validated By	Brian Jaks, P.E. ☐ Validation Checklist - Hardcopy Received						
Certificate of Independence	FL27402_R1_COI_Letter of Certification.pdf						
Referenced Standard and Year (of Standard)	<table><thead><tr><th>Standard</th><th>Year</th></tr></thead><tbody><tr><td>ASTM E 1592</td><td>2005</td></tr><tr><td>FM 4471</td><td>1992</td></tr></tbody></table>	Standard	Year	ASTM E 1592	2005	FM 4471	1992
Standard	Year						
ASTM E 1592	2005						
FM 4471	1992						
Equivalence of Product Standards Certified By							
Sections from the Code							
Product Approval Method	Method 1 Option D						



Date Submitted	08/08/2019
Date Validated	08/09/2019
Date Pending FBC Approval	08/26/2019
Date Approved	10/15/2019

Summary of Products

FL #	Model, Number or Name	Description
27402.1	Hampton Rib Roof Panel	Hampton Rib Roof Panel over Open Framing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +46.9 psf/-57.3 psf Other: See evaluation report for various design pressures Install per Manufacturer's details. Not for use in HVHZ Zones.		Installation Instructions FL27402_R1_II Hampton Rib Roof Panel over open framing.pdf Verified By: Terrence E. Wolfe, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL27402_R1_AE Hampton Rib Roof Panel over open framing.pdf Created by Independent Third Party: Yes



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Product Approval Accepts:



Credit Card

Safe

securityMETRICS



Product Evaluation Report
CARPORTS ANYWHERE

Hampton Rib Roof Panel over open framing

Florida Product Approval # 27402.1 R1

Florida Building Code 2017

Per Rule 61G20-3

Method: 1 -D

Category: Structural Components

Subcategory: Roof Deck

Compliance Method: 61G20-3.005(1)(d)

NON HVHZ

Product Manufacturer:

Carport Anywhere

10858 S.E. County Road 221

Starke, Florida 32091

Engineer Evaluator:

Terrence E. Wolfe, P.E. # 44923

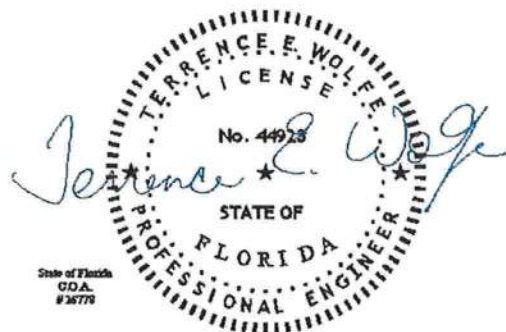
Florida Evaluation ANE ID: 1920

Validator:

Brian Jaks, P.E. #70159

Contents:

Evaluation Report Pages 1- 4



FL# 27402.1 R1

August 8, 2019



Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2017, Sections 1504.3.2, 1504.7.

Product Description: Hampton Rib 26 Ga. and 29 Ga. Steel Roof Panel, 36" Wide, through fastened structural roof panel. Structural Application.

Panel Material/Standards: Material:
 26 Ga. Steel, ASTM A792 or ASTM A653 G90 Grade 50
 29 Ga. Steel, ASTM A792 or ASTM A653 G90 Grade 80
 Conforming to Florida Building Code 2017 Section 1507.4.3. Optional paint finish.
 Corrosion Resistance: Panel Material shall comply with Florida Building Code 2017, Section 1507.4.3.

Panel Dimension(s): Thickness: 26 Ga.: 0.0185" min. order thickness
 29 Ga.: 0.0142" min. order thickness
 Width: 36" maximum coverage
 Rib Height: 3/4" major rib at 9" O.C.
 Panel Rollformer: MRS Metal Rollforming Systems

Panel Fastener: #12-14 x 3/4" HWH SD#3 with 14mm neoprene bonded washing or approved equal.
 Corrosion Resistance: Per Florida Building Code 2017, Section 1507.4.4.

Substrate Description: Minimum 14 Ga. (Grade 50) Steel framing, Minimum 16 Ga. (Grade 50) Steel framing, or Minimum 18 Ga. (Grade 50) Steel framing. See Table A & B for steel gauge. Framing must be designed in accordance w/ Florida Building Code 2017.

Allowable Design Pressures:

Table "A" 26 Ga. Hampton Rib Roof Panel

Maximum Design Pressure:	-57.3 psf	-72.9 psf	-67.7 psf	+46.9 psf	+54.7 psf
Panel Fastener Pattern:	2-1-2-1	2-1-2-1	2-1-2-1	2-1-2-1	2-1-2-1
Panel Span:	5'-0" O.C.	4'-0" O.C.	4'-0" O.C.	5'-0" O.C.	4'-0" O.C.
Substrate:	Min. 14 Ga. Steel Framing	Min. 14 Ga. Steel Framing	Min. 18 Ga. Steel Framing	Min. 18 Ga. Steel Framing	Min. 18 Ga. Steel Framing

*Design Pressure includes a Safety Factor = 2.0.

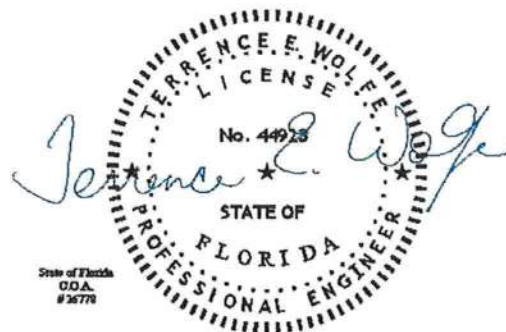


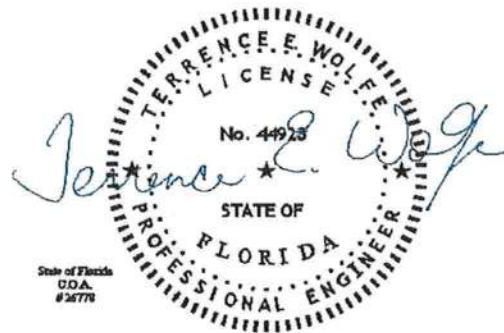


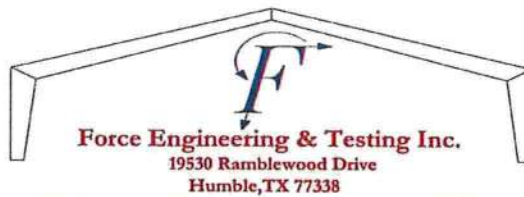
Table "B" 29 Ga. Hampton Rib Roof Panel

Maximum Design Pressure:	-57.3 psf	-150.9 psf	+39.0 psf	+143.1 psf
Fastener Pattern:	6"-3"-6"-3"-6"-3"-6"	6"-3"-6"-3"-6"-3"-6"	6"-3"-6"-3"-6"-3"-6"	6"-3"-6"-3"-6"-3"-6"
Fastener Spacing:	4'-0" O.C.	2'-0" O.C.	4'-0" O.C.	2'-0" O.C.
Substrate:	Min. 16 Ga. Steel Framing	Min. 16 Ga. Steel Framing	Min. 16 Ga. Steel Framing	Min. 16 Ga. Steel Framing

*Design Pressure includes a Safety Factor = 2.0.

Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2017, Section 1504.3.2, 1504.7.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2017, as relates to Rule 61G20-3.
Performance Standards:	The product described herein has demonstrated compliance with: - ASTM E 1592-05 (2012) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference - FM 4471-92 - Foot Traffic Resistance Test
Reference Data:	- ASTM E 1592-05 (2012) Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 667-0060T-18A-E, 667-0061T-18A-D - FM 4471-10, Section 4.4 Foot Traffic Resistance Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 667-0060T-18F, 667-0061T-18E - Certificate of Independence By Terrence E. Wolfe, P.E. (No. 44923) @ Force Engineering & Testing, Inc. (FBC Organization # ANE ID: 1920)
Test Standard Equivalency:	The FM 4471-10, Foot Traffic Resistance test standard is equivalent to FM 4471-92.
Quality Assurance Entity:	The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for





Minimum Slope Range:

manufacturing under a quality assurance program audited by an approved quality assurance entity.

Minimum Slope shall comply with Florida Building Code 2017, including Section 1507.4.2 and in accordance with Manufacturers recommendations. For slopes less than 3:12, lap sealant must be used in the panel side laps.

Installation:

Install per manufacturer's recommended details.

Insulation:

Manufacturer's approved product (Optional)

Roof Panel Fire Classification:

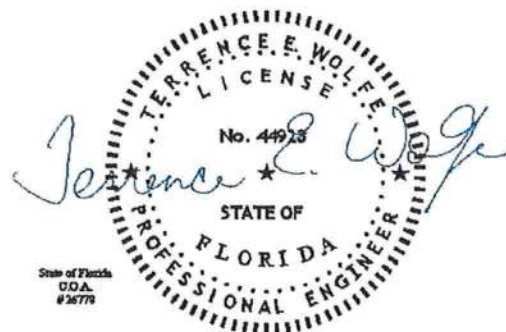
Fire classification is not part of this acceptance.

Shear Diaphragm:

Shear diaphragm values are outside the scope of this report.

Design Procedure:

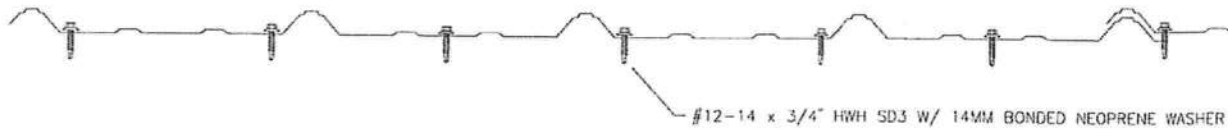
Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2017 for roof cladding wind loads. These component wind loads for roof cladding are compared to the allowable pressure listed above. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure and analyze the panel fasteners for pullout and pullover. Support framing must be in compliance with Florida Building Code 2017 Chapter 22 for steel, and Chapter 16 for structural loading.



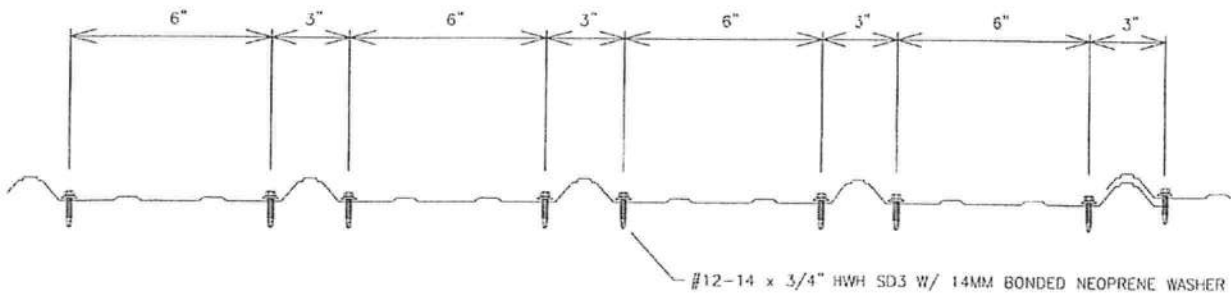
FL# 27402.1 R1

August 8, 2019

26 GA. HAMPTON RIB FASTENER PATTERN 2-1-2-1



29 GA. HAMPTON RIB FASTENER PATTERN 6"-3"-6"-3"-6"-3"-6"



State of Florida
C.O.A.
28778



August 8, 2019

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FL #	FL27403-R1
Application Type	Revision
Code Version	2017
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Carports Anywhere
Address/Phone/Email	10858 S.E. County Road 221 Starke, FL (352) 468-1116 bodom@carportsanywhere.com
Authorized Signature	Brandie Odom bodom@carportsanywhere.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Structural Components
Subcategory	Structural Wall
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	Terrence E. Wolfe
Florida License	PE-44923
Quality Assurance Entity	PRI Construction Materials Technologies, LLC.
Quality Assurance Contract Expiration Date	06/13/2023
Validated By	Brian Jaks, P.E. ☒ Validation Checklist - Hardcopy Received
Certificate of Independence	FL27403_R1_COI_Letter of Certification.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1709.2
Product Approval Method	Method 2 Option B

Date Submitted	08/08/2019
Date Validated	08/09/2019
Date Pending FBC Approval	08/26/2019
Date Approved	10/15/2019

Summary of Products

FL #	Model, Number or Name	Description
27403.1	Hampton Rib Wall Panel	Hampton Rib Wall Panel over open Framing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +46.9 psf/-57.3 psf Other: See Evaluation Report for various Design Pressures. Install per Manufacturer's Details. Not for use in HVHZ Zones.		Installation Instructions FL27403_R1_II_Hampton_Rib_Wall_Panel_over_open_framing.pdf Verified By: Terrence E. Wolfe, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL27403_R1_AE_Hampton_Rib_Wall_Panel_over_open_framing.pdf Created by Independent Third Party: Yes
27403.2	Resi-Lap Siding Wall Panel	Resi-Lap Siding Wall Panel over open Framing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +40.0 psf/-37.0 psf Other: +40.0 psf at 4'-0" o.c. -37.0 psf at 4'-0" o.c. Install per Manufacturer's Details. Not for use in HVHZ Zones.		Installation Instructions FL27403_R1_II_Resi-Lap_Wall_Panel.pdf Verified By: Terrence E. Wolfe, P.E. 44923 Created by Independent Third Party: Yes Evaluation Reports FL27403_R1_AE_Resi-Lap_Wall_Panel.pdf Created by Independent Third Party: Yes



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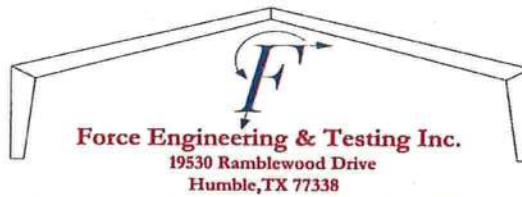
Product Approval Accepts:



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securityMETRICS



Product Evaluation Report
CARPORTS ANYWHERE

Hampton Rib Wall Panel over open framing

Florida Product Approval # 27403.1 R1

Florida Building Code 2017

Per Rule 61G20-3

Method: 2-B

Category: Structural Components

Subcategory: Structural Wall

Compliance Method: 61G20-3.005(2)(b)

NON HVHZ

Product Manufacturer:

Carport Anywhere

10858 S.E. County Road 221

Starke, Florida 32091

Engineer Evaluator:

Terrence E. Wolfe, P.E. # 44923

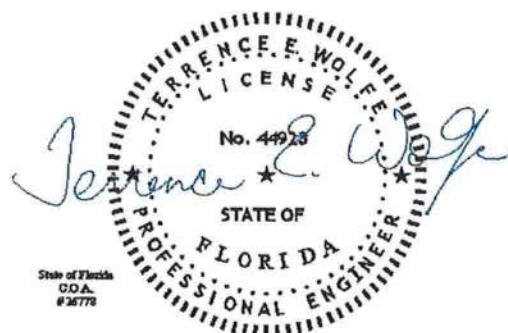
Florida Evaluation ANE ID: 1920

Validator:

Brian Jaks, P.E. #70159

Contents:

Evaluation Report Pages 1- 4



FL# 27403.1 R1

August 8, 2019



Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2017, Sections 1709.2.

Product Description: Hampton Rib 26 Ga. and 29 Ga. Steel Wall Panel, 36" Wide, through fastened structural wall panel. Structural Application.

Panel Material/Standards: Material:
26 Ga. Steel, ASTM A792 or ASTM A653 G90 Grade 50
29 Ga. Steel, ASTM A792 or ASTM A653 G90 Grade 80
Conforming to Florida Building Code 2017 Section 1405.2.

Panel Dimension(s): Thickness: 26 Ga.: 0.0185" min. order thickness
29 Ga.: 0.0142" min. order thickness
Width: 36" maximum coverage
Rib Height: ¾" major rib at 9" O.C.
Panel Rollformer: MRS Metal Rollforming Systems

Panel Fastener: #12-14 x ¾" HWH SD#3 with 14mm neoprene bonded washing or approved equal.
Corrosion Resistance: Per Florida Building Code 2017.

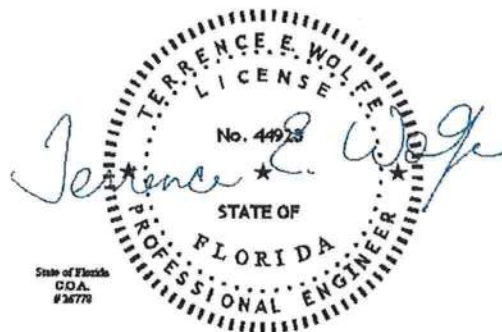
Substrate Description: Minimum 14 Ga. (Grade 50) Steel framing, Minimum 16 Ga. (Grade 50) Steel framing, or Minimum 18 Ga. (Grade 50) Steel framing. See Table A & B for steel gauge. Framing must be designed in accordance w/ Florida Building Code 2017.

Allowable Design Pressures:

Table "A" 26 Ga. Hampton Rib Wall Panel

Maximum Design Pressure:	-57.3 psf	-72.9 psf	-67.7 psf	+46.9 psf	+54.7 psf
Panel Fastener Pattern:	2-1-2-1	2-1-2-1	2-1-2-1	2-1-2-1	2-1-2-1
Panel Span:	5'-0" O.C.	4'-0" O.C.	4'-0" O.C.	5'-0" O.C.	4'-0" O.C.
Substrate:	Min. 14 Ga. Steel Framing	Min. 14 Ga. Steel Framing	Min. 18 Ga. Steel Framing	Min. 18 Ga. Steel Framing	Min. 18 Ga. Steel Framing

*Design Pressure includes a Safety Factor = 2.0.



FL# 27403.1 R1

August 8, 2019

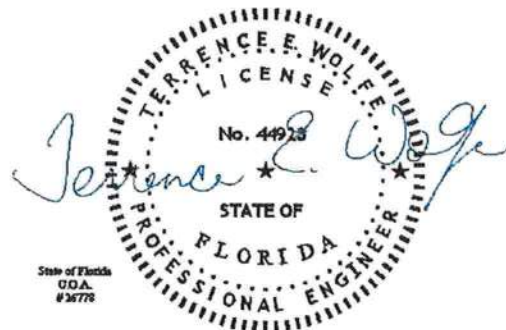


Table "B" 29 Ga. Hampton Rib Wall Panel

Maximum Design Pressure:	-57.3 psf	-150.9 psf	+39.0 psf	+143.1 psf
Fastener Pattern:	6"-3"-6"-3"-6"-3"-6"	6"-3"-6"-3"-6"-3"-6"	6"-3"-6"-3"-6"-3"-6"	6"-3"-6"-3"-6"-3"-6"
Fastener Spacing:	4'-0" O.C.	2'-0" O.C.	4'-0" O.C.	2'-0" O.C.
Substrate:	Min. 16 Ga. Steel Framing	Min. 16 Ga. Steel Framing	Min. 16 Ga. Steel Framing	Min. 16 Ga. Steel Framing

*Design Pressure includes a Safety Factor = 2.0.

Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2017, Section 1709.2.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2017, as relates to Rule 61G20-3.
Performance Standards:	The product described herein has demonstrated compliance with: ASTM E 1592-05 (2012) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference
Reference Data:	- ASTM E 1592-05 (2012) Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 667-0060T-18A-E, 667-0061T-18A-D - Certificate of Independence By Terrence E. Wolfe, P.E. (No. 44923) @ Force Engineering & Testing, Inc. (FBC Organization # ANE ID: 1920)
Quality Assurance Entity:	The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.
Installation:	Install per manufacturer's recommended details.
Insulation:	Manufacturer's approved product (Optional)
Panel Fire Classification:	Fire classification is not part of this acceptance.



FL# 27403.1 R1

August 8, 2019

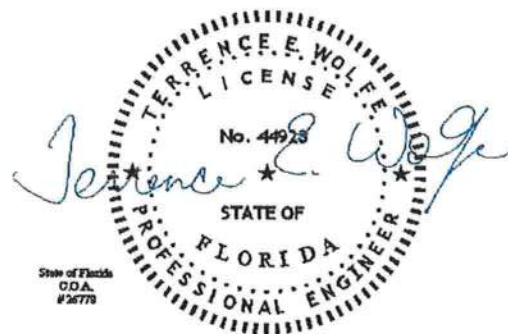


Shear Diaphragm:

Shear diaphragm values are outside the scope of this report.

Design Procedure:

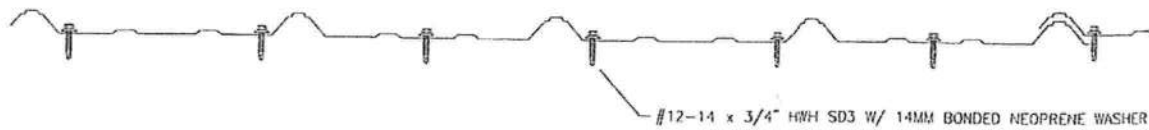
Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2017 for wall cladding wind loads. These component wind loads for wall cladding are compared to the allowable pressure listed above. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure and analyze the panel fasteners for pullout and pullover. Support framing must be in compliance with Florida Building Code 2017 Chapter 22 for steel, and Chapter 16 for structural loading.



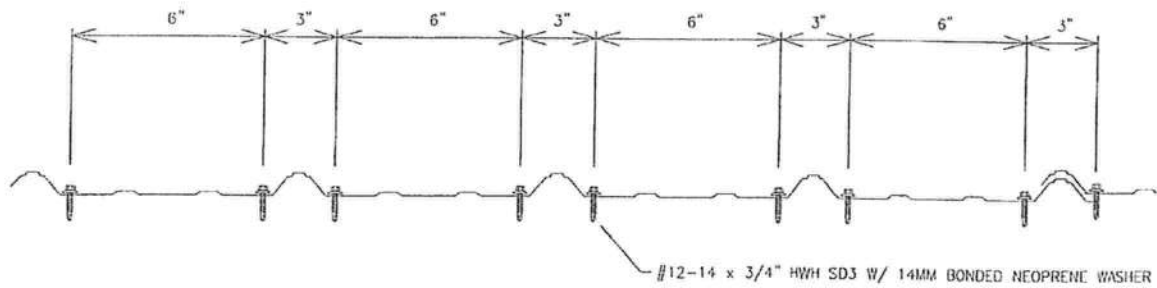
FL# 27403.1 R1

August 8, 2019

26 GA. HAMPTON RIB FASTENER PATTERN 2-1-2-1



29 GA. HAMPTON RIB FASTENER PATTERN 6"-3"-6"-3"-6"-3"-6"



State of Florida
C.O.A.
28778

E. Wolf

August 8, 2019

FLORIDA DEPARTMENT OF
Business & Professional Regulation



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Product Approval
USER: Public User

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FL #	FL17996-R1				
Application Type	Affirmation				
Code Version	2017				
Application Status	Approved				
Comments					
Archived	☐				
Product Manufacturer	Elixir Door and Metal Company				
Address/Phone/Email	1215 Pope Drive Douglas, GA 31533 (912) 493-2215 ryarberry@elixirdmc.com				
Authorized Signature	Randall Yarberry ryarberry@elixirdmc.com				
Technical Representative	PTC Product Design Group				
Address/Phone/Email	PO Box 520775 Longwood, FL 32752 (321) 690-1788 info@ptc-corp.com				
Quality Assurance Representative					
Address/Phone/Email					
Category	Exterior Doors				
Subcategory	Swinging Exterior Door Assemblies				
Compliance Method	Certification Mark or Listing				
Certification Agency	American Architectural Manufacturers Association				
Validated By	American Architectural Manufacturers Association				
Referenced Standard and Year (of Standard)	<table><thead><tr><th><u>Standard</u></th><th><u>Year</u></th></tr></thead><tbody><tr><td>ASTM E330</td><td>2002</td></tr></tbody></table>	<u>Standard</u>	<u>Year</u>	ASTM E330	2002
<u>Standard</u>	<u>Year</u>				
ASTM E330	2002				
Equivalence of Product Standards					
Certified By					

☒ I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity ☐ Yes ☐ No ☐ N/A

[FL17996 R1 COC Affirmation FL17996 418-1208 ss.pdf](#)

Product Approval Method Method 1 Option A

Date Submitted
Date Validated
Date Pending FBC Approval
Date Approved

01/29/2018
01/29/2018

02/04/2018

Summary of Products

Go to Page 60

Page 1 / 2

FL #	Model, Number or Name	Description
17996.1	Series 202-20S Steel Door	Series 202-20S Steel O.S. Door w/ Vertical Slider Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other:		Certification Agency Certificate FL17996 R1 C CAC EXR 202-20S Vertical Slider ASTM E330 plus5.pdf Quality Assurance Contract Expiration Date 12/03/2018 Installation Instructions FL17996 R1 II ELIX0034 Rev A Series 202-20S SS.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996 R1 AE PER 1642 Rev3 415-0705 ss.pdf Created by Independent Third Party: Yes
17996.2	Series 230 W9 Steel Door	Series 230 W9 Steel O.S. Door w/ Cottage Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other:		Certification Agency Certificate FL17996 R1 C CAC EXR 230 W9 Cottage ASTM E330 plus5.pdf Quality Assurance Contract Expiration Date 12/03/2018 Installation Instructions FL17996 R1 II ELIX0033 Rev A Series 230 W9 SS.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996 R1 AE PER 1642 Rev3 415-0705 ss.pdf Created by Independent Third Party: Yes
17996.3	Series 402-14	Vinyl Steel Out-Swinging Regular Door - 14"x14" Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +40/-40 Other:		Certification Agency Certificate FL17996 R1 C CAC EXR 402-14 E330 plus5.pdf Quality Assurance Contract Expiration Date 09/14/2020 Installation Instructions FL17996 R1 II ELIX0050 REV-A OS MODEL 402-14 ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996 R1 AE PER 1951 Rev1a 415-0705 ss.pdf Created by Independent Third Party: Yes
17996.4	Series 402-20S	Vinyl Steel Out-swinging Regular Door - 20" slider window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +40/-45 Other:		Certification Agency Certificate FL17996 R1 C CAC EXR 402-20S E330 plus5.pdf Quality Assurance Contract Expiration Date 09/14/2020 Installation Instructions FL17996 R1 II ELIX0051 REV-A OS MODEL 402-20S ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996 R1 AE PER 1951 Rev1a 415-0705 ss.pdf Created by Independent Third Party: Yes
17996.5	Series 407	Vinyl Steel Out-swinging Regular Door - Blank (no window)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +40/-45 Other:		Certification Agency Certificate FL17996 R1 C CAC EXR 407 E330 plus5.pdf Quality Assurance Contract Expiration Date 09/14/2020 Installation Instructions FL17996 R1 II ELIX0052 REV-A OS MODEL 407 ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996 R1 AE PER 1951 Rev1a 415-0705 ss.pdf Created by Independent Third Party: Yes

17996.6	Series 430 W9	Vinyl Steel Out-swinging Regular Door - 9-Lite Window (1'8" x 3'0")
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +33/-40 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_430-W9_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/14/2020 Installation Instructions FL17996_R1_II_ELIX0053_Rev-A_OS_MODEL_430-W9_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1951_Rev1a_415-0705_ss.pdf Created by Independent Third Party: Yes
17996.7	Series 6400 W9 Cottage	Series 6400-W9 Non-Impact Inswing Painted Steel Door w/Storm Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +66/-56 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_6400_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/16/2019 Installation Instructions FL17996_R1_II_ELIX0056_Rev-A_IS_MODEL_6400-W9_WITH_STORM_DOOR_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1954_Rev2_415-0705_ss.pdf Created by Independent Third Party: Yes
17996.8	Series 7500 Oval	Series 7500 Non-Impact Inswing Vinyl Laminated Steel Door w/Adjustable Threshold
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +34/-50 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_7500_Oval_21_adjustable_threshold_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/17/2019 Installation Instructions FL17996_R1_II_ELIX0055_Rev-A_IS_MODEL_7500_OVAL_21_WITH_ADJUSTABLE_THRESHOLD_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1955_Rev2_415-0705_ss.pdf Created by Independent Third Party: Yes
17996.9	Series 7500 Oval	Series 7500 Non-Impact Inswing Vinyl Laminated Steel Door w/Storm Door and PVC Jamb
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_7500_Oval_23_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/16/2019 Installation Instructions FL17996_R1_II_ELIX0060_Rev-A_IS_MODEL_STR_7500_23_OVAL_WITH_STORM_DOOR_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1955_Rev2_415-0705_ss.pdf Created by Independent Third Party: Yes
17996.10	Series 8400 W9 Cottage	Series 8400-W9 Non-Impact Oval Inswing Vinyl Laminated Steel Door w/Storm Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_8400_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/16/2019 Installation Instructions FL17996_R1_II_ELIX0057_Rev-A_IS_MODEL_8400-W9_OVAL_WITH_STORM_DOOR_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1954_Rev2_415-0705_ss.pdf Created by Independent Third Party: Yes
17996.11	Series 9000	Series 9000 Non-Impact Inswing Vinyl Laminated Steel Door w/Storm Door
Limits of Use Approved for use in HVHZ: No		Certification Agency Certificate FL17996_R1_C_CAC_EXR_9000_50_E330_plus5.pdf

Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other:		Quality Assurance Contract Expiration Date 09/16/2019 Installation Instructions FL17996_R1_II_ELIX0058_Rev-A IS BLANK 9000 DOOR W. STORM DOOR ss.pdf Verified By: Robert J. Amoroso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1954_Rev2_415-0705 ss.pdf Created by Independent Third Party: Yes
17996.12	Series 9400 Cottage	Series 9400-W9 Non-Impact Inswing Vinyl Laminated Steel Door w/Storm Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_9400_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/16/2019 Installation Instructions FL17996_R1_II_ELIX0059_Rev-A IS MODEL 9400-W9 COTTAGE W. STORM DOOR ss.pdf Verified By: Robert J. Amoroso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1954_Rev2_415-0705 ss.pdf Created by Independent Third Party: Yes
17996.13	Series AFIF7N	Series AFIF7N Non-Impact IS Fiberglass Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38/-38 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_AFIF7N_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/14/2019 Installation Instructions FL17996_R1_II_ELIX0040_AFIF7N-BFIF7N_RevA_SS.pdf Verified By: Robert J. Amoroso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1952_Rev2_415-0705 ss.pdf Created by Independent Third Party: Yes
17996.14	Series AFOF7N	Series AFOF7N Non-Impact OS Fiberglass Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38/-38 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_AFOF7N_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/14/2019 Installation Instructions FL17996_R1_II_ELIX0042_AFOF7N-BFOF7N_RevA ss.pdf Verified By: Robert J. Amoroso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1952_Rev2_415-0705 ss.pdf Created by Independent Third Party: Yes
17996.15	Series AVIF7N	Series AVIF7N Non-Impact IS Steel Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +25/-25 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_AVIF7N_E330_plus5.pdf Quality Assurance Contract Expiration Date 04/05/2020 Installation Instructions FL17996_R1_II_ELIX0047_AVIF7N-BVIF7N_RevA ss.pdf Verified By: Robert J. Amoroso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1953_Rev2_415-0705 ss.pdf Created by Independent Third Party: Yes
17996.16	Series AVOF7N	Series AVOF7N Non-Impact OS Steel Doors
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +21/-21 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_AVOF7N_E330_plus5.pdf Quality Assurance Contract Expiration Date 04/06/2020 Installation Instructions FL17996_R1_II_ELIX0048_AVOF7N-BVOF7N_RevA ss.pdf Verified By: Robert J. Amoroso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AE_PER_1953_Rev2_415-0705 ss.pdf Created by Independent Third Party: Yes
17996.17	Series BFIF7N	Series BFIF7N Non-Impact IS Fiberglass Door

Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38/-38 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_BFIF7N_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/15/2019 Installation Instructions FL17996_R1_II_ELIX0040_AFIF7N-BFIF7N_RevA_SS.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AF_PER_1952_Rev2_415-0705_ss.pdf Created by Independent Third Party: Yes
17996.18	Series BFIF7S	Series BFIF7S Non-Impact IS Fiberglass French Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +38/-38 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_BFIF7S_E330_plus5.pdf Quality Assurance Contract Expiration Date 09/15/2019 Installation Instructions FL17996_R1_II_ELIX0046_BFIF7S_RevA_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AF_PER_1952_Rev2_415-0705_ss.pdf Created by Independent Third Party: Yes
17996.19	Series BFOF7N	Series BFOF7N Non-Impact OS Fiberglass Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_BFOF7N_E330_plus5.pdf Quality Assurance Contract Expiration Date 04/06/2020 Installation Instructions FL17996_R1_II_ELIX0042_AFOF7N-BFOF7N_RevA_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AF_PER_1952_Rev2_415-0705_ss.pdf Created by Independent Third Party: Yes
17996.20	Series BVI63S	Series BVI63S Non-Impact Single Inswing Door w/Fixed Lite Insert and Outswing Storm Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +65/-65 Other:		Certification Agency Certificate FL17996_R1_C_CAC_EXR_BVI63S_E330_plus5.pdf Quality Assurance Contract Expiration Date 12/17/2021 Installation Instructions FL17996_R1_II_ELIX0061_BVI63S_RevA_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL17996_R1_AF_PER_2244_Rev2_415-0705_ss.pdf Created by Independent Third Party: Yes

Go to Page

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Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:


Credit Card
Safe

securityMETRICS

A·L·I

(Validator / Operations Administrator)

**AAMA
CERTIFICATION PROGRAM****AUTHORIZATION FOR PRODUCT CERTIFICATION****Elixir Door and Metals Company
1215 Pope Drive
Douglas, GA 31533****Attn: Randall Yarberry**

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings, by an AAMA Accredited Laboratory.

1. The listing below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED			
AAMA INTERIM DOOR CERTIFICATION PROGRAM ASTM E 330-02 STP = +60, -67.5 psf ASTM E 330-02 DP = +40, -45 psf				
COMPANY AND PLANT LOCATION	CPD NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED	
Elixir Industries Plant Code: EXR	7459	407 (ALUMINUM FRAME) (X-OS) (STEEL/FOAM/STEEL)	<u>FRAME</u> 3'0" x 6'8"	<u>LEAF</u> 2'11" x 6'7"

2. This Certification will expire **September 14, 2020** (extended from September 14, 2015 per AAMA 103-15) and requires validation by continued listing in the current AAMA Certified Products Directory until withdrawn by manufacturer.

3. Product Tested and Reported by: **Dallas Laboratories, Inc.**

Report No.: **44278 rev.**Date of Report: **December 20, 2011**

Validated for Certification

Associated Laboratories, Inc.

Date: **January 5, 2012**
Revised: **August 11, 2015**Cc: AAMA
SBS

Authorized for Certification

American Architectural Manufacturers Association

ELIXIR DOOR & METAL CO.

MODEL 407 NON-IMPACT OUTSWING VINYL LAMINATED STEEL DOOR

INSTALLATION ANCHORAGE DRAWING

GENERAL NOTES:

1. THE PRODUCT ANCHORAGE SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING HIGH VELOCITY HURRICANE ZONE AND THE DESIGN PRESSURE(S) STATED HEREIN.
- 1a. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT DALLAS LABORATORIES, INC. #44278 AND ASSOCIATED LABORATORY STAMPED DRAWINGS.
2. ADEQUACY OF THE EXISTING STRUCTURAL 2X FRAMING OR STEEL FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

5. IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS IS MANDATORY FOR THE PRODUCT HEREIN.
6. FRAME MATERIAL: ALUMINUM ALLOY 6063-T6 DOOR PANEL MATERIAL: .09 MIL VINYL LAMINATED GALVANIZED STEEL .015" SKIN W/ URETHANE FOAM CORE.
7. DESIGNATIONS "X" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
8. HARDWARE:
A. HALF HINGES: (4) 6063-T6 EXTRUDED ALUMINUM
B. LATCH LOCK: KEYED
C. DEAD BOLT: SINGLE CYLINDER
9. SEE SHEET1 FOR DESIGN PRESSURE CHART.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
2. THE INSTALLATION ANCHORS AT THE SPACINGS SHOWN ARE THE MINIMUM NUMBER OF ANCHORS AND MAXIMUM SPACINGS TO BE USED FOR PRODUCT INSTALLATION.
3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIMS). MAXIMUM ALLOWABLE SHIM SIZE OF 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
4. ANCHORS FOR INSTALLATION INTO WOOD FRAMING OR 14GA. MINIMUM STEEL FRAMING SHALL BE AS SHOWN IN "ANCHOR SCHEDULE" THIS SHEET.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
6. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE "ANCHOR SCHEDULE" THIS SHEET.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

DESIGN PRESSURE RATING (PSF)		IMPACT RATING
WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
"	+40.0 / -45.0	NONE

**UNIT MUST BE INSTALLED BENEATH AN APPROVED OVERHANG

TABLE OF CONTENT	
SHEET	DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	ELEVATION, ANCHORING LAYOUT
3	VERTICAL CROSS SECTIONS
4	HORIZONTAL CROSS SECTIONS

ANCHOR SCHEDULE					EDGE DISTANCE (IN) (1) (2)	ANCHOR CAPACITIES BASED ON
SUBSTRATE	DOOR FRAME TYPE	TYPE	SIZE	MANUFACTURER AND/OR SPECIFICATION		
SHEET METAL/STEEL TUBING 14 GA MIN. THICKNESS	FIN (Z-BAR)	PAN HEAD	NO. 8	ASME B18.6.4 (TAPPING SCREW)	3/8"	MIN. 33 KSI YIELD STRENGTH
2X WOOD FRAMING	FIN (Z-BAR)	PAN HEAD	NO. 8	ANSI B18.6.1 (WOOD SCREW) OR ASME B18.6.4 (TAPPING SCREW)	1/2"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42

NOTES:

- 1) FOR WOOD OR TAPPING SCREWS IF SPLITTING IS A CONCERN, DRILL 0.062" PLOT HOLE (DRILL SIZE 45).
- 2) EDGE DISTANCE MEASURED FROM EITHER SIDE OF ANCHOR TO EDGE OF SUBSTRATE.

PROJECT NUMBER		415-0705	
DATE		8/3/15	
DESCRIPTION		UPDATE TO 5TH EDITION (2014) FBA	
BY		RJA	
TITLE		MODEL 407 NON-IMPACT OUTSWING VINYL LAMINATED STEEL DOOR	
DRAWN BY		TJH	
DATE		02/29/12	
CHECKED		ELIX0052	
SCALE		N.T.S.	
REVISION		1 OF 4	

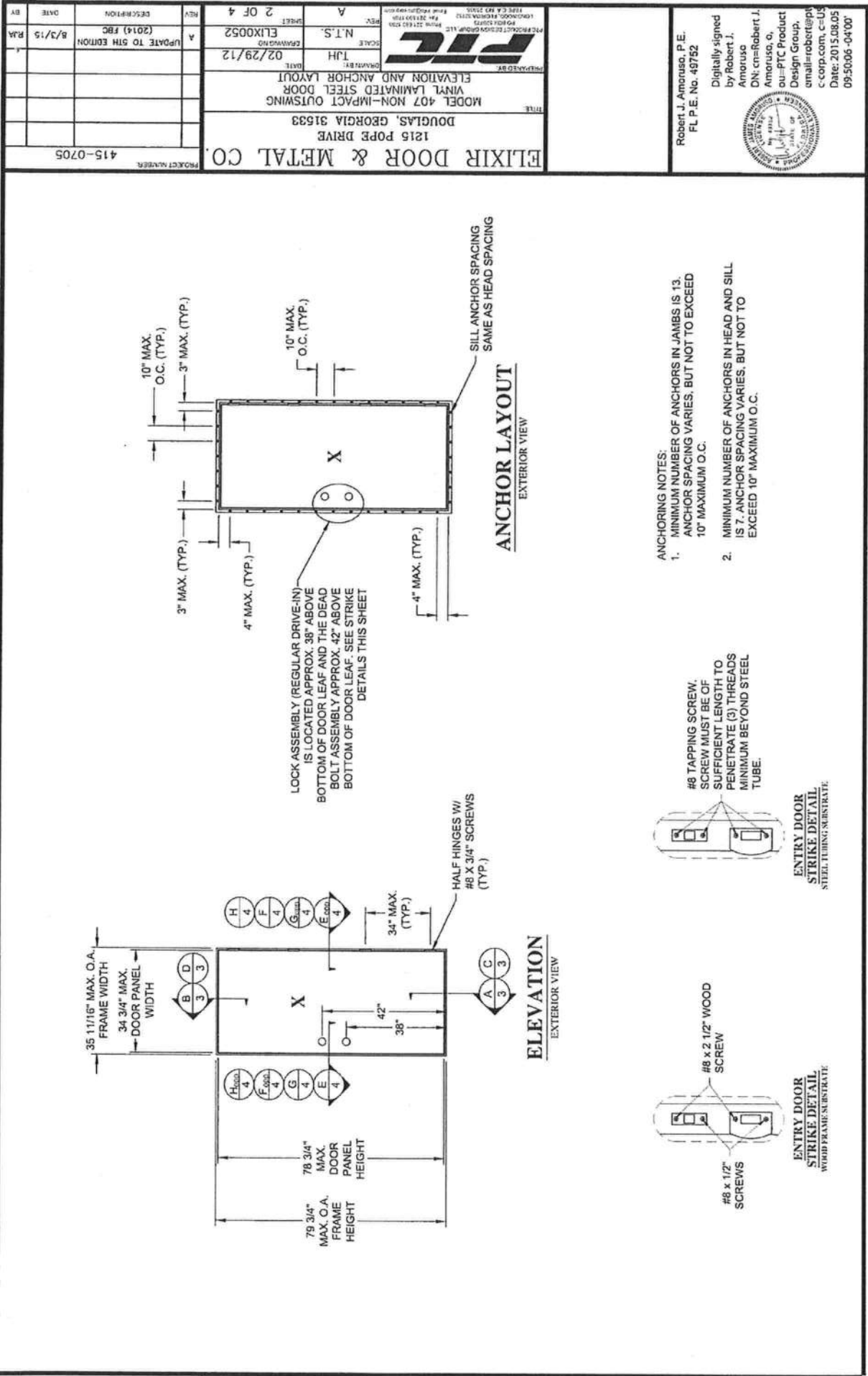
ELIXIR DOOR & METAL CO.
1215 POPE DRIVE
DOUGLAS, GEORGIA 31533

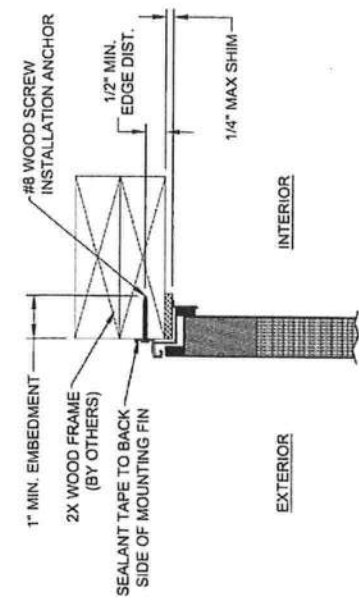
PTC
PROTECTIVE TECHNOLOGIES, LLC
15000 N. 15TH AVE. SUITE 200
PHOENIX, AZ 85022
TEL: 480.990.1100
WWW.PTC-USA.COM

Robert J. Amoroso, P.E.
FL P.E. No. 49752

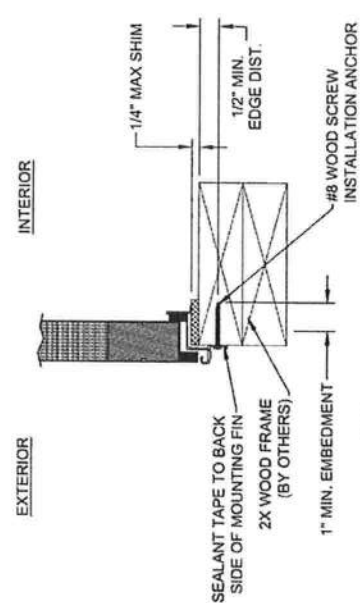


Digitally signed by Robert J. Amoroso
DN: cn=Robert J. Amoroso, o=PTC Product Design Group, email=robert@ptc-corp.com, c=US
Date: 2015.08.05 09:49:56 -0400

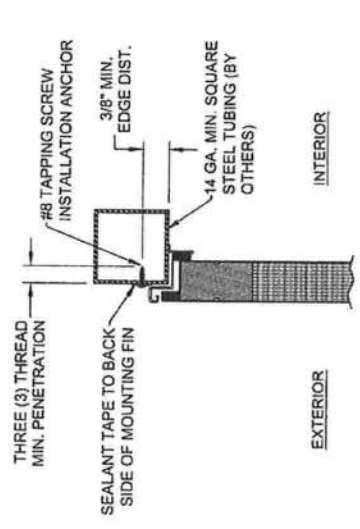




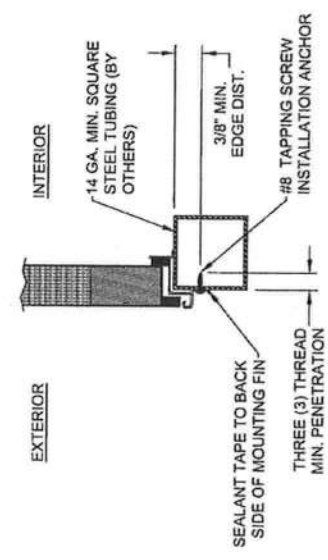
B VERTICAL SECTION
WOOD FRAME SUBSTRATE



A VERTICAL SECTION
WOOD FRAME SUBSTRATE



D VERTICAL SECTION
STEEL TUBING SUBSTRATE

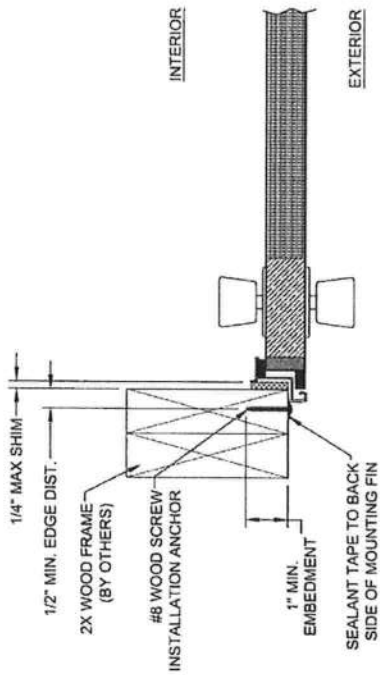


C VERTICAL SECTION
STEEL TUBING SUBSTRATE

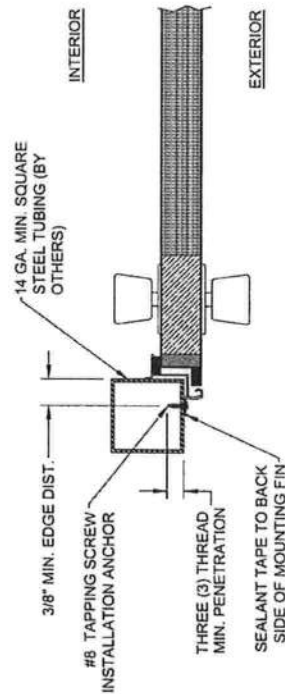
ELIXIR DOOR & METAL CO. 1216 POPE DRIVE DOUGLAS, GEORGIA 31533		PTC PTC PRODUCT DESIGN GROUP, LLC 1600 WOODLAND AVENUE, SUITE 100 FARMINGTON, CT 06030 TEL: 203.633.1300 FAX: 203.633.1301 WWW.PTC-DOORS.COM	
REV	DESCRIPTION	DATE	BY
A	UPDATE TO 5TH EDITION (2014) FBC	6/3/15	RAA
PROJECT NUMBER: 415-0705		SHEET: 3 OF 4	

Robert J. Amoroso, P.E.
FL P.E. No. 49752

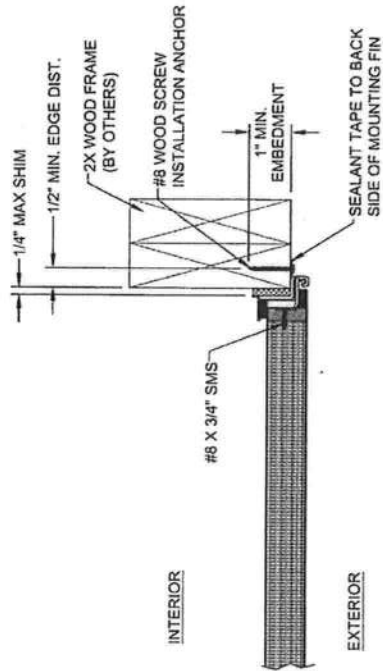
Digitally signed
by Robert J.
Amoroso
DN: cn=Robert J.
Amoroso, o=
Amoroso, ou=PTC Product
Design Group,
email=robert@pt
c-corp.com, c=US
Date: 2015.08.05
09:55:18 -0400



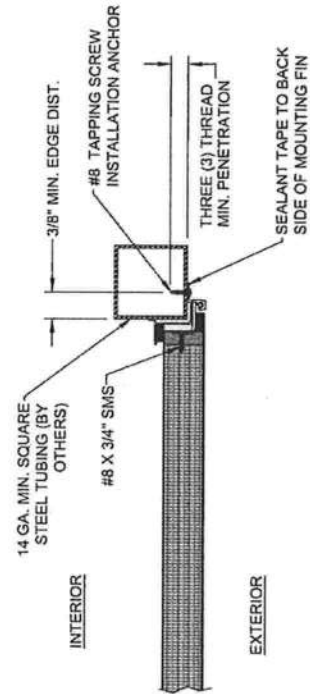
E HORIZONTAL SECTION
WOOD FRAME SUBSTRATE



G HORIZONTAL SECTION
STEEL TUBING SUBSTRATE



F HORIZONTAL SECTION
WOOD FRAME SUBSTRATE



H HORIZONTAL SECTION
STEEL TUBING SUBSTRATE

ELIXIR DOOR & METAL CO. 1215 POPE DRIVE DOUGLAS, GEORGIA 31533 MODEL 407 NON-IMPACT OUTSWING VINYL LAMINATED STEEL DOOR VERTICAL CROSS SECTIONS DRAWN BY: TJH DATE: 02/29/12 SHEET: 4 OF 4 REV: A N.T.S. DRAWING NO: ELIX0052		PTC PREPARED BY: PTC PRODUCTS DESIGN GROUP, LLC 1500 WOODBRIDGE BLVD., SUITE 200 FARMINGTON, CT 06030 TEL: 203.633.7310 FAX: 203.633.7311 WWW.PTC-DESIGN.COM	
PROJECT NUMBER: 415-0705		Robert J. Amoroso, P.E. FL P.E. No. 49752  Digitally signed by Robert J. Amoroso DN: cn=Robert J. Amoroso, o=PTC Product Design Group, email=robert@ptc-corp.com, c=US Date: 2015.08.05 09:50:29 -04'00'	
REV	DESCRIPTION	DATE	BY
A	UPDATE TO 5TH EDITION (2014) FBA	8/3/15	RJA

Product Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 1951, Rev. 1 | Project No. 415-0705 | 8/3/15 | Page 1 of 3

Product Manufacturer

Elixir Door and Metal Company
1215 Pope Drive
Douglas, GA 31533

Product Name, Model and/or Description

Non-Impact Glazed or Opaque, Inswing or Outswing, Painted Steel or Vinyl Laminated Steel Doors with or without Storm Door – X

Code: Current Edition of the Florida Building Code

Compliance Method: Fla. Admin. Code R. 61G20-3.005(1)(a) – Certification Mark or Listing; as administered by the Florida Department of Business and Professional Regulation.

Product Testing, Materials and Certification: Test Reports by Dallas Laboratories, Inc., 1323 Wall ST. Dallas, TX 75215

- ELIX0050: #44276, dated December 22, 2011 to ASTM E330-02
- ELIX0051: #44277, dated December 21, 2011 to ASTM E330-02
- ELIX0052: #44278, dated December 21, 2011 to ASTM E330-02
- ELIX0053: #44279, dated December 21, 2011 to ASTM E330-02

Product Installation Instructions: All drawings listed below by PTC Product Design Group, Revision A, Dated 8/3/15, signed and sealed by Robert. J. Amoruso, P.E.

- ELIX0050: Model 402-14 Non-Impact Outswing Vinyl Laminated Steel Door w/Storm Door
- ELIX0051: Model 402-20S Non-Impact Outswing Vinyl Laminated Steel Door w/Storm Door
- ELIX0052: Model 407 Non-Impact Outswing Vinyl Laminated Steel Door w/Storm Door
- ELIX0053: Model 430-W9 Non-Impact Outswing Vinyl Laminated Steel Door w/Storm Door

Engineering Analysis & Evaluation: The following evaluations, engineering and/or rational analysis/calculations have been performed.

- PTC PDG Report No. 1933 Anchorage Engineering for doors shown on drawings *ELIX0050, ELIX0051, ELIX0052 and ELIX0053*, signed and sealed by Robert J. Amoruso, P.E.
- PTC PDG Report No. 1934, Anchorage Engineering for doors shown on drawings *ELIX0036*, signed and sealed by Robert J. Amoruso, P.E.
- PTC PDG Report No. 1935, Anchorage Engineering for doors shown on drawings *ELIX0035, ELIX0037, ELIX0038 and ELIX0039*, signed and sealed by Robert J. Amoruso, P.E.

Limitations & Conditions of Use:

- This product has NOT been evaluated for use inside the HVHZ (High Velocity Hurricane Zone).
- Refer to Product Installation Instructions noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Maximum allowed sizes of fenestration components.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.
- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code and/or ASCE 7-10 for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.



PTC Product Design Group, LLC | PO Box 520775 | Longwood, FL 32752-0775
321-690-1788 | FBPE Certification of Authorization No. 25935

Product Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 1951, Rev. 1 | Project No. 415-0705 | 8/3/15 | Page 2 of 3

Certificate of Independence per Product Approval Rule 61G20-3.009

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. does not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



Digitally signed by
Robert J. Amoruso
DN: cn=Robert J.
Amoruso, o, ou=PTC
Product Design Group,
email=robert@ptc-
corp.com, c=US
Date: 2015.08.13
21:04:27 -04'00'

Evaluated By:
Robert J. Amoruso, P.E.
FL P.E. License Number 49752



PTC Product Design Group, LLC | PO Box 520775 | Longwood, FL 32752-0775
321-690-1788 | FBPE Certification of Authorization No. 25935

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Product Approval
USER: Public User

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

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FL #	FL21450-R4								
Application Type	Revision								
Code Version	2017								
Application Status	Approved								
Comments									
Archived	☐								
Product Manufacturer	Janus International Group, LLC.								
Address/Phone/Email	135 Janus International Blvd. Temple, GA 30179 (770) 562-6135 Ext 360 curts@janusintl.com								
Authorized Signature	Curtis Schroeder curts@janusintl.com								
Technical Representative	Curtis L. Schroeder								
Address/Phone/Email	134 Janus International Blvd. Temple, GA 30179 (770) 562-2850 Ext 360 curts@janusintl.com								
Quality Assurance Representative	Chris Meyer								
Address/Phone/Email	135 Janus International Blvd Temple, GA 30179 (770) 562-2850 chris.meyer@janusintl.com								
Category	Exterior Doors								
Subcategory	Roll-Up 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	John E. Scates								
Florida License	PE-51737								
Quality Assurance Entity	National Accreditation and Management Institute								
Quality Assurance Contract Expiration Date	12/31/2020								
Validated By	Kurt Dietrich PE ☒ Validation Checklist - Hardcopy Received								
Certificate of Independence	FL21450 R4 COI Cert of Ind Scates 2020 s.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ANSI/DASMA 108</td> <td>2012</td> </tr> <tr> <td>ANSI/DASMA 115</td> <td>2012</td> </tr> <tr> <td>ASTM E330</td> <td>2002</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ANSI/DASMA 108	2012	ANSI/DASMA 115	2012	ASTM E330	2002
<u>Standard</u>	<u>Year</u>								
ANSI/DASMA 108	2012								
ANSI/DASMA 115	2012								
ASTM E330	2002								
Equivalence of Product Standards Certified By									

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

04/07/2020

Date Validated

04/08/2020

Date Pending FBC Approval

04/16/2020

Date Approved

06/02/2020

Summary of Products

FL #	Model, Number or Name	Description
21450.1	Series 1100	Series 1100 - 26 Gauge Door Assembly Max Size: 8'-8" x 14'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +24.4/-27.0 Other: Not for use in High Velocity Hurricane Zones		Installation Instructions FL21450_R4_II_T1012_RevD_s.pdf Verified By: John E. Scates PE-51737 Created by Independent Third Party: Yes Evaluation Reports FL21450_R4_AE_EvalRept_Model750_1100_r2_s.pdf Created by Independent Third Party: Yes
21450.2	Series 1100	Series 1100 - 26 Gauge Door Assembly Max Size: 10'-0" x 14'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +19.4/-22.7 Other:		Installation Instructions FL21450_R4_II_T1013_RevD_s.pdf Verified By: John E. Scates PE-51737 Created by Independent Third Party: Yes Evaluation Reports FL21450_R4_AE_EvalRept_Model750_1100_r2_s.pdf Created by Independent Third Party: Yes
21450.3	Series 3100	Series 3100 - 26 Gauge Door Assembly Max Size: 20'-0" x 20'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +40/-40 Other:		Installation Instructions FL21450_R4_II_T1015_RevB_s.pdf Verified By: John Scates FL-51737 Created by Independent Third Party: Yes Evaluation Reports FL21450_R4_AE_EvalRept_Model3100-IM_r1_s.pdf Created by Independent Third Party: Yes
21450.4	Series 3100	Series 3100 - 26 Gauge Door Assembly Max Size: 20'-0" x 20'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +42.5/-45 Other:		Installation Instructions FL21450_R4_II_T1016_Rev- s.pdf Verified By: John Scates FL-51737 Created by Independent Third Party: Yes Evaluation Reports FL21450_R4_AE_EvalRept_Model3100-IM_r1_s.pdf Created by Independent Third Party: Yes
21450.5	Series 3100-IM	Series 3100-IM - Impact Resistant 26 Gauge Door Assembly Max Size: 16'-0" x 20'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +42.5/-45 Other:		Installation Instructions FL21450_R4_II_T1016_Rev- s.pdf Verified By: John Scates FL-51737 Created by Independent Third Party: Yes Evaluation Reports FL21450_R4_AE_EvalRept_Model3100-IM_r1_s.pdf Created by Independent Third Party: Yes
21450.6	Series 3100-IM	Series 3100-IM - Impact Resistant 26 Gauge Door Assembly Max Size: 14'-0" x 20'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +40/-40 Other:		Installation Instructions FL21450_R4_II_T1015_RevB_s.pdf Verified By: John Scates FL-51737 Created by Independent Third Party: Yes Evaluation Reports FL21450_R4_AE_EvalRept_Model3100-IM_r1_s.pdf Created by Independent Third Party: Yes

21450.7	Series 750	Series 750 - 26 Gauge Door Assembly Max Size: 3'-0" x 12'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +35/-45 Other: Not for use in High Velocity Hurricane Zones		Installation Instructions FL21450 R4 II T1000 RevF s.pdf Verified By: John E. Scates, P.E. 51737 Created by Independent Third Party: Yes Evaluation Reports FL21450 R4 AE EvalRept Model750 1100 r2 s.pdf Created by Independent Third Party: Yes
21450.8	Series 750	Series 750 - 26 Gauge Door Assembly Max Size: 6'-0" x 12'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +19.9/-24.4 Other: Design Pressures listed as a test width of 6'-0". For pressures vs. widths, see table, sheet 1 of 2, dwg T1001. Not for use in High Velocity Hurricane Zones.		Installation Instructions FL21450 R4 II T1001 RevF s.pdf Verified By: John E. Scates, P.E. 51737 Created by Independent Third Party: Yes Evaluation Reports FL21450 R4 AE EvalRept Model750 1100 r2 s.pdf Created by Independent Third Party: Yes
21450.9	Series 750	Series 750 - 26 Gauge Door Assembly Max Size: 8'-8" x 12'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +24.4/-27.0 Other: Not for use in High Velocity Hurricane Zones.		Installation Instructions FL21450 R4 II T1002 RevF s.pdf Verified By: John E. Scates, P.E. 51737 Created by Independent Third Party: Yes Evaluation Reports FL21450 R4 AE EvalRept Model750 1100 r2 s.pdf Created by Independent Third Party: Yes
21450.10	Series 750	Series 750 - 26 Gauge Door Assembly Max Size: 10'-0" x 12'-0"
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +19.4/-22.7 Other: Not for use in High Velocity Hurricane Zones.		Installation Instructions FL21450 R4 II T1003 RevF s.pdf Verified By: John E. Scates, P.E. 51737 Created by Independent Third Party: Yes Evaluation Reports FL21450 R4 AE EvalRept Model750 1100 r2 s.pdf Created by Independent Third Party: Yes



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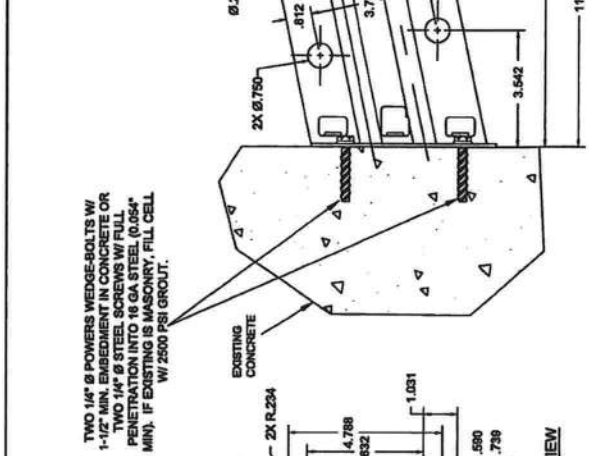
Product Approval Accepts:



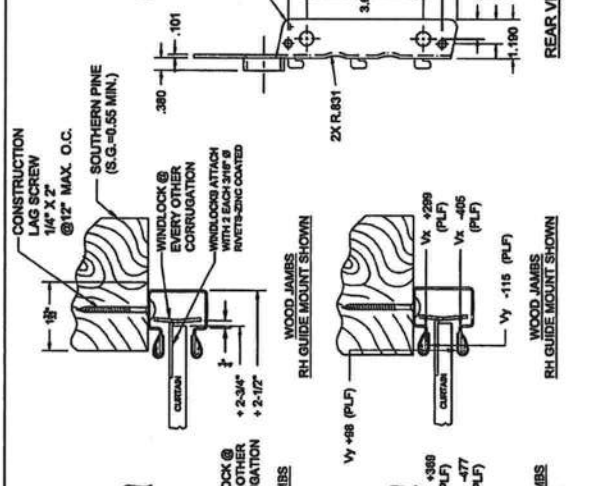
Credit Card
Safe



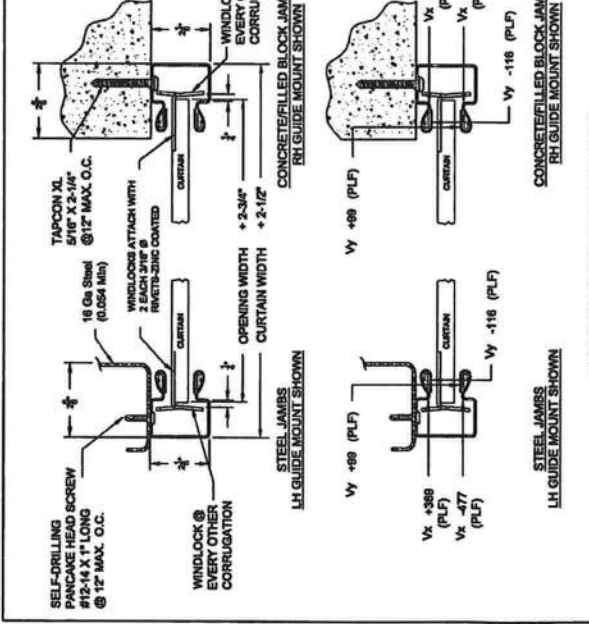
REV	DESCRIPTION	DATE	APPROVAL
1	DRAWING RELEASE	11-14-02	DM
2	NOTE REVISIONS	4-18-04	CS
3	NOTE REVISIONS	6-17-09	CS
4	RE-TEST 8-18-13	10-24-13	CS
5	18 GA STEEL JAMB AND LATCH ASSEMBLY	9-18-15	CS
6	Minor Aluminum Corrosion/Weathering Features	09/25/17	CS
7	ADD WOOD JAMB DETAIL & FASTENERS	03/03/20	CS



DOOR MOUNTING BRACKET DETAIL



REAR VIEW



SUPERIMPOSED LOAD DIAGRAM

GENERAL NOTES

- THIS ROLL-UP DOOR SYSTEM IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
- THIS ROLL-UP DOOR HAS BEEN TESTED IN ACCORDANCE WITH ASTM E-539 AND COMPLIES WITH ANSIDA/AMA 102.
- WIND LOADS FOR BUILDING OPENINGS SHALL BE DETERMINED BY A PROFESSIONAL ENGINEER USING APPROPRIATE WIND SPEED AND DESIGN CRITERIA. THIS DOOR MAY BE USED WHERE THE DESIGN LOAD MEETS OR EXCEEDS THE DESIGN LOAD FOR THE BUILDING OPENING.
- SUPERIMPOSED LOADS ON THE JAMBS FROM THIS DOOR ARE DESIGNED AS V_x AND V_y HEREIN. CONTRACTORS SHALL HAVE BUILDING ENGINEER VERIFY ADEQUACY OF BUILDING STRUCTURE TO RESIST SUPERIMPOSED LOADS V_x, V_y, AND BRACKET LOADS SHOWN.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70.
- DOORS SHALL BE PROVIDED WITH LOCK MECHANISMS AT THE OPTION OF THE OWNER.
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 80 KSI.

DESIGN LOAD = 18.4 PSF
22.7

ANCHOR NOTES:

- EMBEDMENT LENGTH DOES NOT INCLUDE STUCCO FINISH.
- FOR HOLLOW MASONRY, FILL ALL CELLS @ ANCHOR WITH 2500 PSI GROUT.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- ALTERNATE FASTENERS: DEWALT SCREW BOLT[®] AND SIMPSON TITEN HD.

DOOR OPERATION TYPED TO BE PUSH-UP.
10. GUIDE TO JAMB ATTACHMENT FASTENERS BEGIN 4" FROM FLOOR AND END 3-1/2" BELOW TOP OF CURTAIN OPENING.

11. TEST DOOR WALL OPENING SIZE: 19'-0" X 8'-0"



John E. Scates, P.E.
2580 King Arthur, STE 124-54
Lawrenceville, TX 75068
FL PE 51737, TX PE 58308/F2203

Professional Engineer's seal provided only for verification of windload construction details.

JANUS INTERNATIONAL GROUP, LLC.
135 JANUS INTERNATIONAL BLVD. TEMPLE, GA 30179-4435
770-562-2850/Fax 770-562-2284
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CERTIFIED WIND LOAD RATED
28 GA SERIES 750 DOOR ASSEMBLY
MAX. SIZE: 10'-0" X 12'-0"

SIZE **B** DRAWING NUMBER: **T1003** REV: **F**
SCALE: NONE SHEET: 2 OF 2

PART NUMBER		DATE	
MATERIAL:		DATE:	
APPLIED FINISH:		DATE:	
UNIT OF MEASURE:		DATE:	
APPROVALS:		DATE:	
DRAWN:	BECKY NELSON	11-14-02	
CHECKED:	DON MILLS	11-14-02	
APPROVED:	DON MILLS	11-14-02	

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE:

DECIMAL	FRACTIONS	ANGLES	HOLE DIAMETERS
.XX ±.03	± 1/16	± 0° 30'	UNDER 0.251 ±.004
.XXX ±.005			0.251 to 0.500 ±.006
			OVER 0.500 ±.008

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Product Approval
USER: Public User

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FL #	FL17499-R5
Application Type	Revision
Code Version	2017
Application Status	Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments
Archived ☐

Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 West Market Street Gratz, PA 17030 (717) 365-3300 Ext 2560 bsitlinger@miwd.com

Authorized Signature	Brent Sitlinger bsitlinger@miwd.com
----------------------	--

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email

Category	Windows
Subcategory	Single Hung

Compliance Method	Certification Mark or Listing
-------------------	-------------------------------

Certification Agency	American Architectural Manufacturers Association
Validated By	Steven M. Ulrich, PE
	☒ Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	AAMA 506	2011
	AAMA/WDMA/CSA 101/I.S.2/A440	2008
	AAMA/WDMA/CSA 101/I.S.2/A440	2011

Equivalence of Product Standards
Certified By

Product Approval Method	Method 1 Option A
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Date Submitted	03/18/2019
Date Validated	03/18/2019
Date Pending FBC Approval	

Summary of Products

FL #	Model, Number or Name	Description
17499.1	185 SH	36x84 Fin/Flange Frame IG/SG Impact Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +55/-55 Other: R-PG55*, Missile Level D, Wind Zone 3. Glass to be bedded in Pecora 896 sealant.		Certification Agency Certificate FL17499 R5 C CAC APC (13278) 185 SH (101723).pdf FL17499 R5 C CAC APC (13279) 185 SH (101723).pdf FL17499 R5 C CAC APC (13280) 185 SH (101723).pdf FL17499 R5 C CAC APC (13292) 185 SH (101723).pdf Quality Assurance Contract Expiration Date 10/17/2023 Installation Instructions FL17499 R5 II 08-02545B.pdf Verified By: Luis R Lomas PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R5 AF 513321B-3.pdf Created by Independent Third Party: Yes
17499.2	185 SH	52x72 Fin/Flange Frame IG/SG Single Hung Laminated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-60 Other: R-PG60		Certification Agency Certificate FL17499 R5 C CAC APC (13269) 185 SH (100823).pdf FL17499 R5 C CAC APC (13270) 185 SH (100823).pdf FL17499 R5 C CAC APC (13271) 185 SH (100823).pdf FL17499 R5 C CAC APC (13361) 185 SH (100823).pdf Quality Assurance Contract Expiration Date 10/08/2023 Installation Instructions FL17499 R5 II 08-02549B.pdf Verified By: Luis R Lomas PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R5 AF 513327B-4.pdf Created by Independent Third Party: Yes
17499.3	185 SH	36x84 Fin/Flange Frame IG/SG Single Hung Laminated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-60 Other: R-PG60*		Certification Agency Certificate FL17499 R5 C CAC APC (13272) 185 SH (101723).pdf FL17499 R5 C CAC APC (13273) 185 SH (101723).pdf FL17499 R5 C CAC APC (13274) 185 SH (101723).pdf FL17499 R5 C CAC APC (13363) 185 SH (101723).pdf Quality Assurance Contract Expiration Date 10/17/2023 Installation Instructions FL17499 R5 II 08-02550B.pdf Verified By: Luis R Lomas PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R5 AF 513328B-5.pdf Created by Independent Third Party: Yes
17499.4	185 SH	36x71 Fin, Finless, Flange Frame IG Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-67 Other: R-PG60*		Certification Agency Certificate FL17499 R5 C CAC APC H0462.01-109-47-R0 185 SH (042522).pdf Quality Assurance Contract Expiration Date 04/25/2022 Installation Instructions FL17499 R5 II 08-03163.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R5 AF 514082.pdf Created by Independent Third Party: Yes
17499.5	185 SH	36x72 Fin, Flange, and Finless Frame Insulated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-70 Other: R-PG60		Certification Agency Certificate FL17499 R5 C CAC APC(17811)1583.02-106-11-R0 185 SH(061423).pdf Quality Assurance Contract Expiration Date 06/14/2023 Installation Instructions FL17499 R5 II 08-03383.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports

		FL17499_R5_AE_514377.pdf Created by Independent Third Party: Yes
17499.6	185 SH	52x62 Fin, Flange, and Finless Frame, Insulated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50/-63 Other: R-PG50		Certification Agency Certificate FL17499_R5_C_CAC_APC(17812)1711.08-106-12-R0_185_SH(072723).pdf Quality Assurance Contract Expiration Date 07/27/2023 Installation Instructions FL17499_R5_II_08-03379.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R5_AE_514373.pdf Created by Independent Third Party: Yes
17499.7	185 SH	52x62 Fin, Flange, and Finless Frame, Insulating Lami Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-63 Other: R-PG50		Certification Agency Certificate FL17499_R5_C_CAC_APC(17813)1711.04-106-12-R0_185_SH(072723).pdf Quality Assurance Contract Expiration Date 07/27/2023 Installation Instructions FL17499_R5_II_08-03381.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R5_AE_514375.pdf Created by Independent Third Party: Yes
17499.8	185 SH	36x72 Fin, Flange, Finless Frame, Insulated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-70 Other: R-PG60		Certification Agency Certificate FL17499_R5_C_CAC_APC(17816)1711.07-106-11-R0_185_SH(072723).pdf Quality Assurance Contract Expiration Date 07/27/2023 Installation Instructions FL17499_R5_II_08-03380.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R5_AE_514374.pdf Created by Independent Third Party: Yes
17499.9	185 SH	52x72 Fin/Flange Frame IG/SG Impact Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +55/-55 Other: R-PG55, Missile Level D, Wind Zone 3. Glass to be bedded in Pecora 896 sealant.		Certification Agency Certificate FL17499_R5_C_CAC_APC(13275)185_SH(100823).pdf FL17499_R5_C_CAC_APC(13276)185_SH(100823).pdf FL17499_R5_C_CAC_APC(13277)185_SH(100823).pdf FL17499_R5_C_CAC_APC(13291)185_SH(100823).pdf Quality Assurance Contract Expiration Date 10/08/2023 Installation Instructions FL17499_R5_II_08-02544B-1.pdf Verified By: Luis R. Lomas PE 62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R5_AE_513320B-1.pdf Created by Independent Third Party: Yes
17499.10	185 SH	52x84 Fin/Flange Frame IG/SG Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-60 Other: R-PG60		Certification Agency Certificate FL17499_R5_C_CAC_APC(13263)185_SH(100923).pdf FL17499_R5_C_CAC_APC(13264)185_SH(100923).pdf FL17499_R5_C_CAC_APC(13265)185_SH(100923).pdf FL17499_R5_C_CAC_APC(13362)185_SH(100923).pdf Quality Assurance Contract Expiration Date 10/09/2023 Installation Instructions FL17499_R5_II_08-02546B-2.pdf Verified By: Luis R. Lomas PE 62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R5_AE_513322B-2.pdf Created by Independent Third Party: Yes
17499.11	185 Triple SH	111x72 Fin Frame IG/SG Single Hung 110x72 Flange Frame IG/SG Single Hung

Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: R-PG50*		Certification Agency Certificate FL17499_R5_C_CAC_APC(13341)_185_SH_TPL(110423).pdf FL17499_R5_C_CAC_APC(13343)_185_SH_TPL(102123).pdf FL17499_R5_C_CAC_APC(13346)_185_SH_TPL(102023).pdf FL17499_R5_C_CAC_APC(13348)_185_SH_TPL(102123).pdf Quality Assurance Contract Expiration Date 10/20/2023 Installation Instructions FL17499_R5_II_08-02548B.pdf Verified By: Luis R Lomas PE 62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R5_AE_513324B-6.pdf Created by Independent Third Party: Yes
17499.12	185 Twin SH	106x72 Fin Frame IG/SG Single Hung 105x72 Flange Frame IG/SG Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +45/-45 Other: R-PG45		Certification Agency Certificate FL17499_R5_C_CAC_APC(13340)_185_SH_TWN(102123).pdf FL17499_R5_C_CAC_APC(13342)_185_SH_TWN(110423).pdf FL17499_R5_C_CAC_APC(13347)_185_SH_TWN(102023).pdf FL17499_R5_C_CAC_APC(13349)_185_SH_TWN(102123).pdf Quality Assurance Contract Expiration Date 10/20/2023 Installation Instructions FL17499_R5_II_08-02547B-7.pdf Verified By: Luis R Lomas PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R5_AE_513323B-7.pdf Created by Independent Third Party: Yes



Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:



Credit Card
Safe



NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR $C_d=1.6$ WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: EXTRUDED RIGID PVC.
12. UNITS MUST BE GLAZED PER ASTM E7300-04/09, SEE SHEET 11 FOR GLASS DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD: MINIMUM SPECIFIC GRAVITY OF $G=0.42$
 - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH $F_m=2,000$ PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") $F_y=33$ KSI/ $F_u=52$ KSI OR ALUMINUM 6063-T5 $F_u=30$ KSI .048" THICK MINIMUM

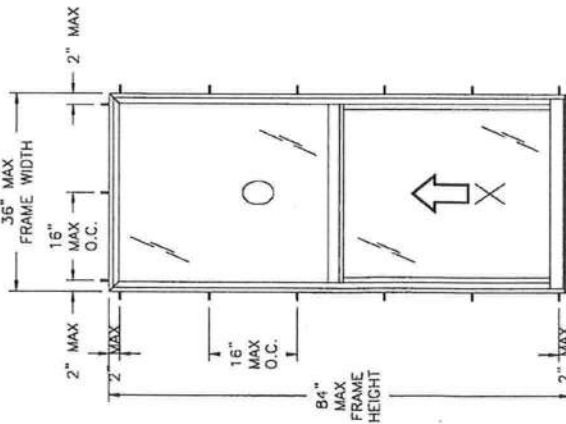
REVIEWS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

SIGNED: 12/14/2017

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI		NOTES	
DRAWN: N.G.	DWG NO. 08-02545	REV B	
SCALE NTS	DATE 12/09/2014	SHEET 1	OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD. LENOIRVILLE, NC 27023 434-688-0029 rlomas@miwindows.com		Luis R. Lomas P.E. FL No.: 62514	

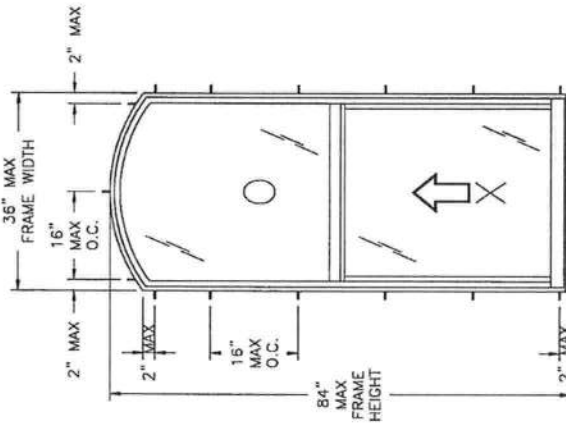
TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1	NOTES
2 - 3	ELEVATIONS
4 - 10	INSTALLATION DETAILS
11	COMPONENTS



185 ALUMINUM SINGLE HUNG WINDOW

EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION
SEE CHART #1 FOR SMALLER UNITS REQUIRED ANCHORS



185 ALUMINUM SINGLE HUNG WINDOW

DESIGNER EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION
SEE CHART #1 FOR SMALLER UNITS REQUIRED ANCHORS

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

NOTES:

1. MAXIMUM SASH SIZE: 34 1/2" X 36"
2. MAXIMUM SASH D.L.O.: 31 1/2" X 32 1/2"
3. MAXIMUM FIXED D.L.O.: 33 1/8" X 45"

HARDWARE SCHEDULE

- A. (2) METAL SWEEP LOCK AT 8" FROM EACH END INTERIOR MEETING RAIL
- B. (2) BLOCK AND TACKLE BALANCE AT JAMBS

REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED CLASS	10/02/17	R.L.

CHART #1 FLANGE & FINLESS INSTALLATION

Frame Height (in)	Number of anchor locations required									
	Frame Width (in)					Frame Width (in)				
	18.00	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00
24.00	2	3	3	3	3	3	3	3	3	3
30.00	2	3	3	3	3	3	3	3	3	3
36.00	2	3	3	3	3	3	3	3	3	3
42.00	2	4	4	4	4	4	4	4	4	4
48.00	2	4	4	4	4	4	4	4	4	4
54.00	2	5	5	5	5	5	5	5	5	5
60.00	2	5	5	5	5	5	5	5	5	5
66.00	2	5	5	5	5	5	5	5	5	5
72.00	2	6	6	6	6	6	6	6	6	6
78.00	2	6	6	6	6	6	6	6	6	6
84.00	2	6	6	6	6	6	6	6	6	6

SIGNED: 12/14/2017

MI WINDOWS AND DOORS, LLC

650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 185 ALUMINUM SINGLE HUNG WINDOW

36" X 84" - LMI

FLANGE AND FINLESS ELEVATIONS

DRAWN: N.G.

DWG NO. 08-02545

SCALE NTS

DATE 12/09/2014

SHEET 2 OF 11

REV B

REV 08-02545

L. ROBERTO LOMAS P.E.

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L. R. LOMAS

FLORIDA ENGINEER

No. 82514

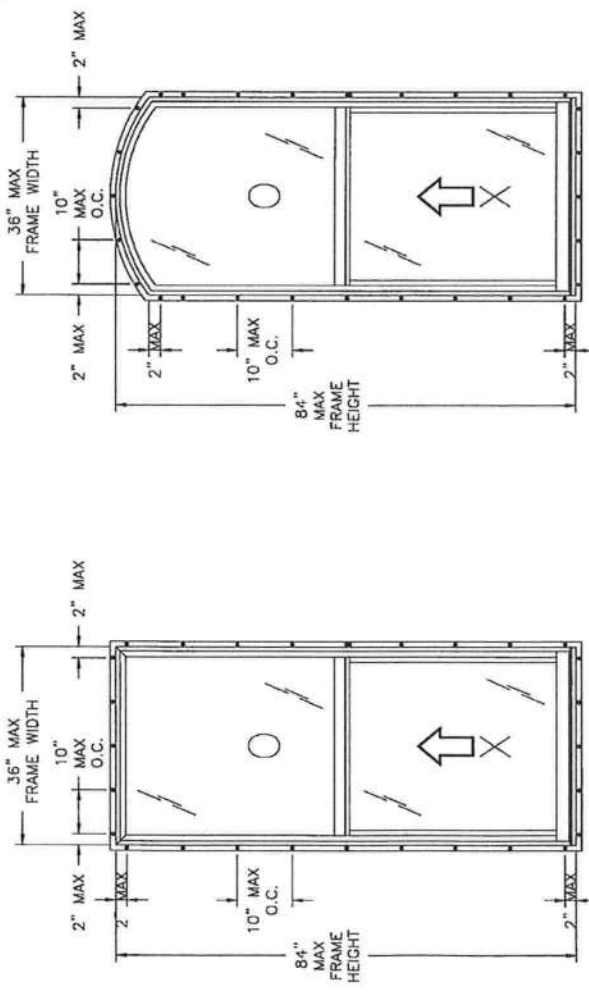
STATE OF FLORIDA

PROFESSIONAL ENGINEER

Luis R. Lomas P.E.

FL No.: 82514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.



185 ALUMINUM SINGLE HUNG WINDOW
EXTERIOR VIEW
FIN INSTALLATION
SEE CHART #2 FOR SMALLER UNITS REQUIRED ANCHORS

185 ALUMINUM SINGLE HUNG WINDOW
DESIGNER EXTERIOR VIEW
FIN INSTALLATION
SEE CHART #2 FOR SMALLER UNITS REQUIRED ANCHORS

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

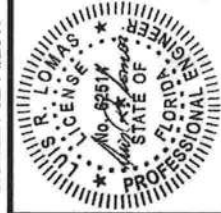
- NOTES:
1. MAXIMUM SASH SIZE: 34 1/2" X 36"
 2. MAXIMUM SASH D.L.O.: 31 1/2" X 32 1/2"
 3. MAXIMUM FIXED D.L.O.: 33 1/8" X 45"

HARDWARE SCHEDULE	
A. (2) METAL SWEEP LOCK AT 8" FROM EACH END INTERIOR MEETING RAIL	
B. (2) BLOCK AND TACKLE BALANCE AT JAMBS	

CHART #2 FIN INSTALLATION

Frame Height (in)	Number of anchor locations required									
	Frame Width (in)					Frame Width (in)				
	18.00	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00
24.00	3	3	3	3	3	3	3	3	3	3
30.00	3	3	3	3	3	3	3	3	3	3
36.00	3	3	3	3	3	3	3	3	3	3
42.00	3	3	3	3	3	3	3	3	3	3
48.00	3	3	3	3	3	3	3	3	3	3
54.00	3	3	3	3	3	3	3	3	3	3
60.00	3	3	3	3	3	3	3	3	3	3
66.00	3	3	3	3	3	3	3	3	3	3
72.00	3	3	3	3	3	3	3	3	3	3
78.00	3	3	3	3	3	3	3	3	3	3
84.00	3	3	3	3	3	3	3	3	3	3

SIGNED: 12/14/2017



Luis R. Lomas P.E.
FL No.: 62514

MI WINDOWS AND DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

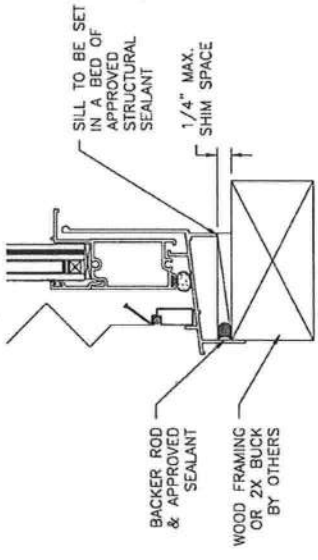
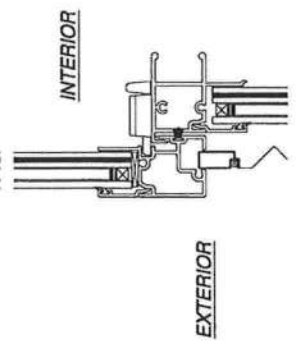
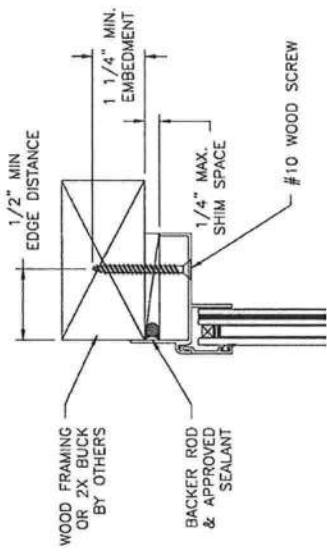
SERIES 185 ALUMINUM SINGLE HUNG WINDOW
36" X 84" - LMI
FIN ELEVATIONS

DRAWN: N.G.
SCALE: NTS
DATE: 12/09/2014
SHEET: 3 OF 11

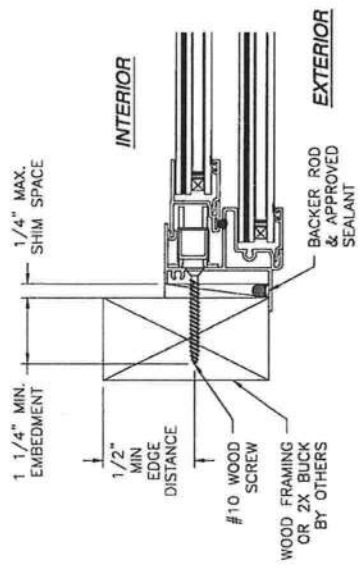
REV: B
DWG NO.: 08-02545

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1432 WOODFORD RD LEWISVILLE, NC 27023
434-686-0809 rloomas@homaspa.com

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

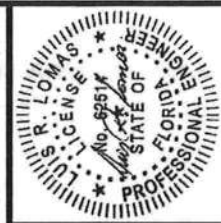


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 12/14/2017



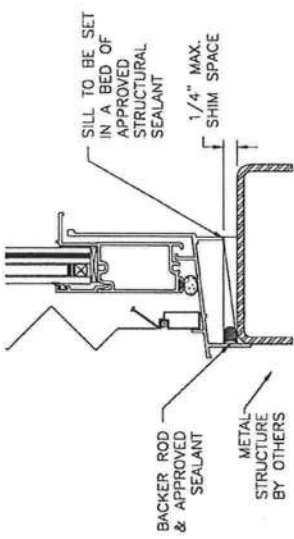
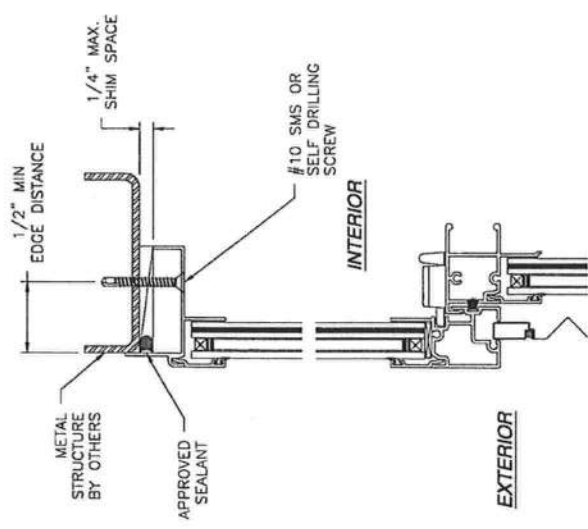
Luis R. Lomas P.E.
FL No.: 62514

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FLANGE INSTALLATION DETAILS	
DRAWN: N.G.	DWG NO. 08-02545	DATE 12/09/2014	REV B
SCALE NTS	SHEET 4	OF 11	

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-888-0609 rlomas@lomaspe.com

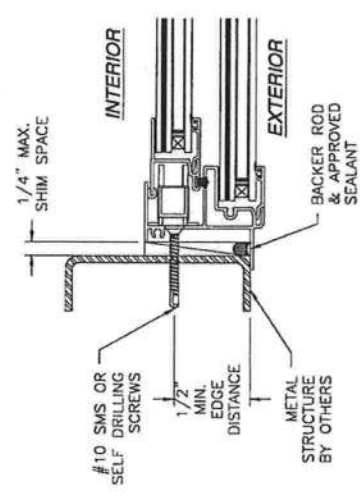
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

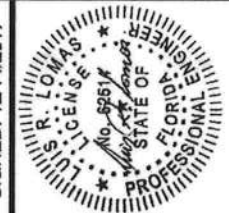


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JAMB INSTALLATION DETAIL METAL STRUCTURE INSTALLATION



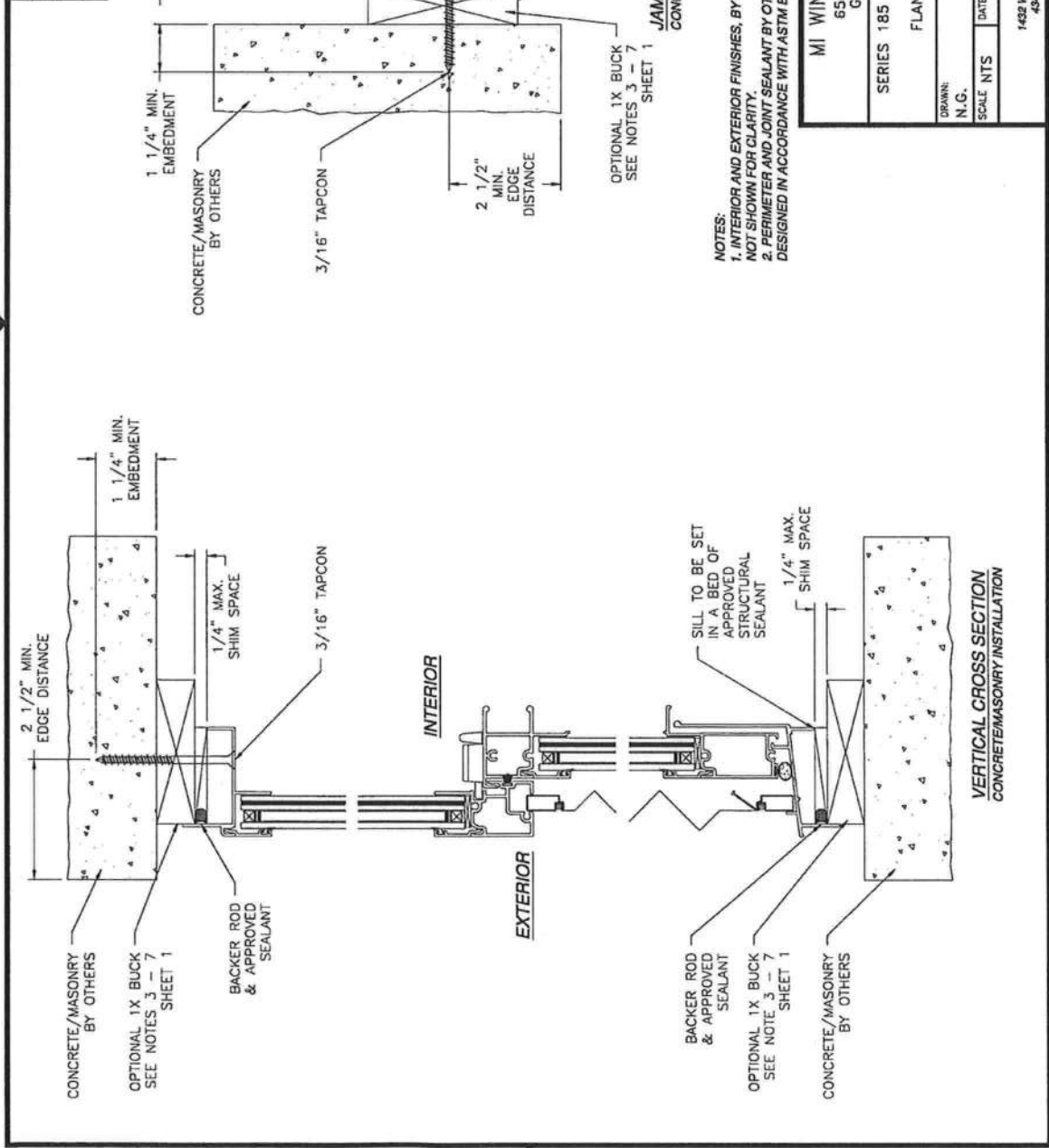
SIGNED: 12/14/2017



Luis R. Lomas P.E.
 FL No.: 62514

MI WINDOWS AND DOORS, LLC 850 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FLANGE INSTALLATION DETAILS			
DRAWN: N.G.	DWG NO. 08-02545	REV B	
SCALE NTS	DATE 12/09/2014	SHEET 5	OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0608 rloromas@miwindows.com			

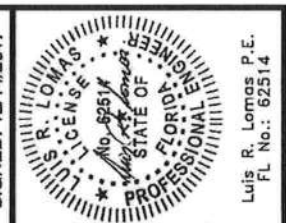
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REV	DESCRIPTION	DATE	APPROVED
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B	REVISED GLASS	10/02/17	R.L.



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

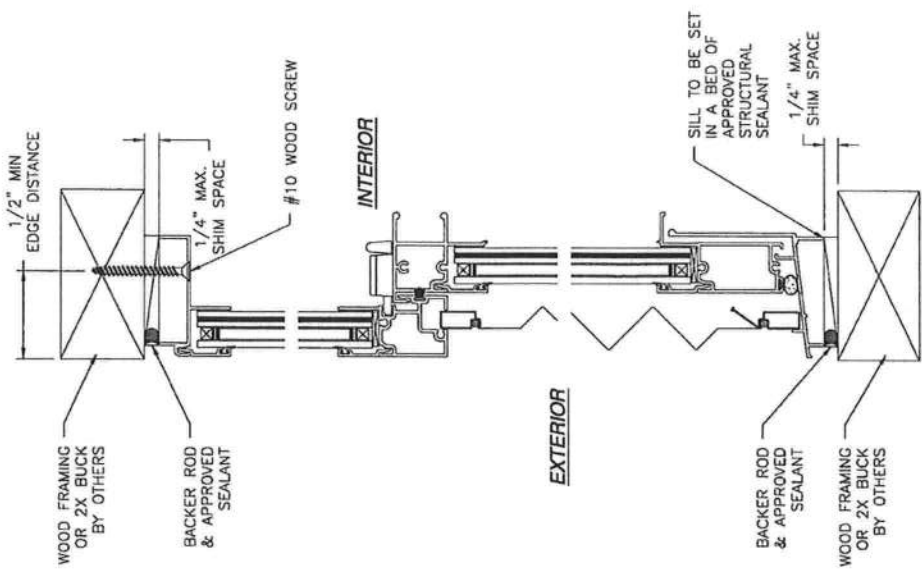
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SIGNED: 12/14/2017



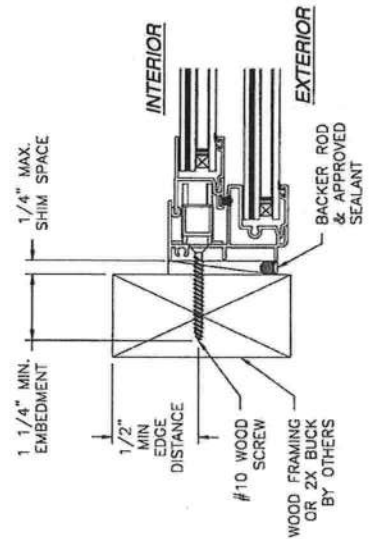
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DRAWN: N.G.	REV B
DATE 12/09/2014	SHEET 6 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0608 rlomas@miwindows.com	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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B	REVISED GLASS	10/02/17	R.L.



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

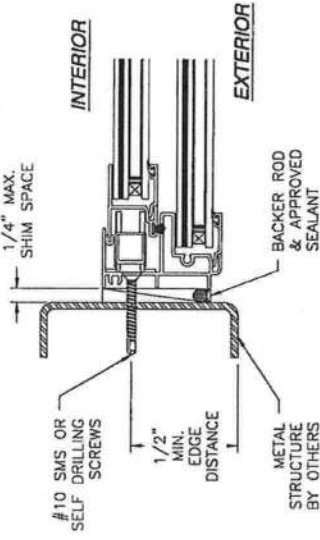
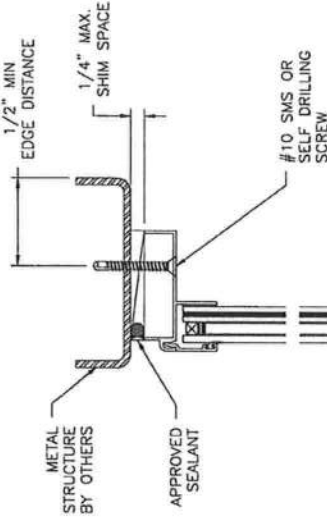
SIGNED: 12/14/2017



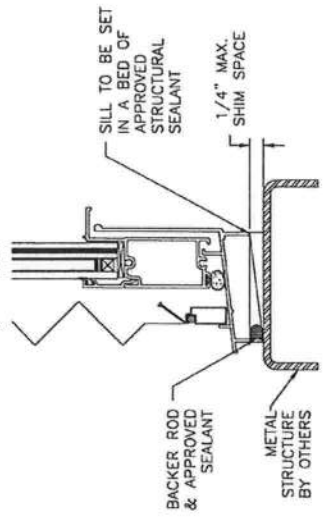
Luis R. Lomas P.E.
FL No.: 62514

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370	
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FINLESS INSTALLATION DETAILS	
DRAWN: N.G.	REV B
DATE 12/09/2014	SHEET 7 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, MO 67223 434-688-0609 rlomas@fontanape.com	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.



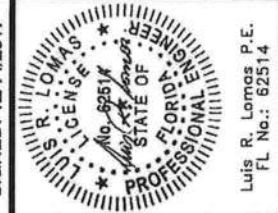
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

- NOTES:
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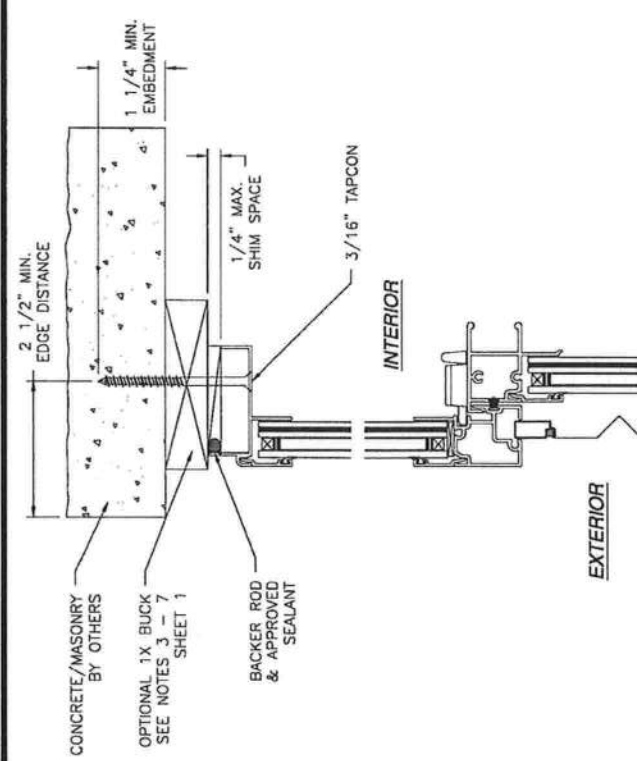
SIGNED: 12/14/2017



MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FINLESS INSTALLATION DETAILS			
DRAWN: N.G.	DWG NO. 08-02545	REV B	
SCALE NTS	DATE 12/09/2014	SHEET 8	OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rloromas@rlomaspe.com			

Luis R. Lomas P.E.
FL No.: 62514

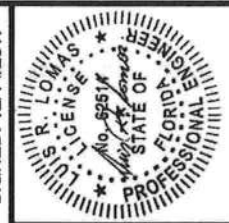
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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B	REVISED CLASS	10/02/17	R.L.



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

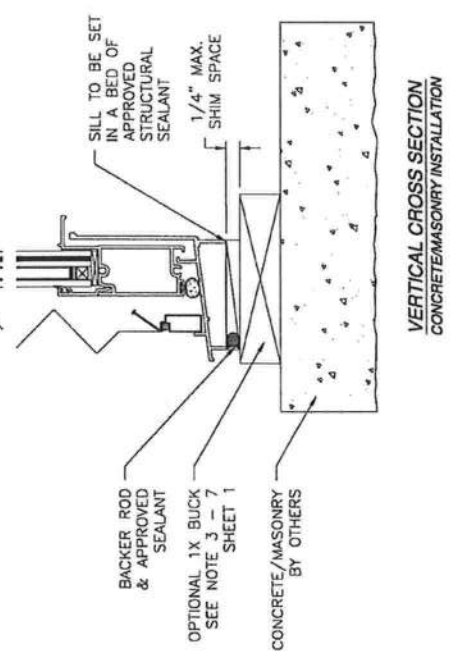
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 12/14/2017



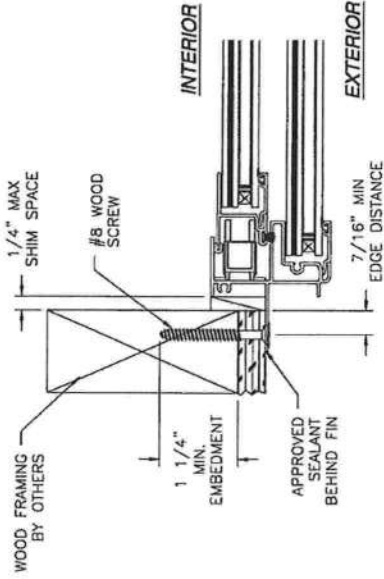
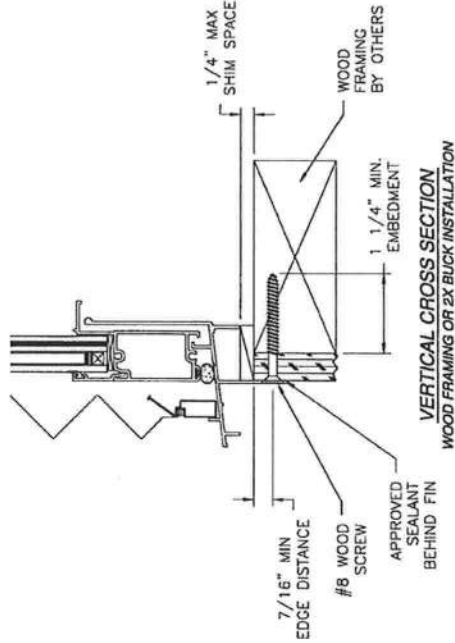
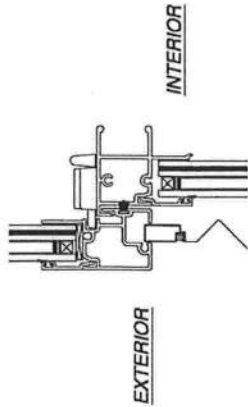
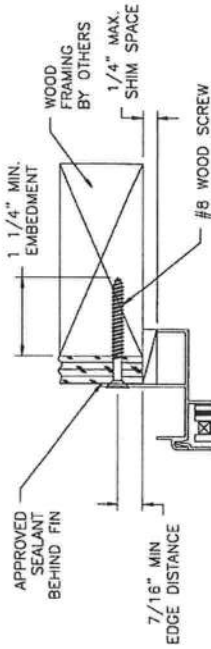
Luis R. Lomas P.E.
FL No.: 52514

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FINLESS INSTALLATION DETAILS	
DRAWN: N.G.	DWG NO. 08-02545	REV B	
SCALE NTS	DATE 12/09/2014	SHEET 9	OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-888-0809 rlomas@miwindows.com			



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

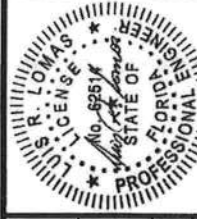


JAMB INSTALLATION DETAIL WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:
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SCALE NTS	DATE 12/09/2014
SHEET 10 OF 11	REV B
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD. LEWISVILLE, NC 27023 434-588-0609 rlomas@lomaspa.com	



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