As required by Florida Statute 553.842 and Florida Administrative Code 98-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS	THERMA-THU	THERMA-THU BENCHMAKK DUORS	21135.1
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	PGT INDUSTRIES	8H 5500 MRAUT	239.2
B. HORIZONTAL SLIDER			
C. CASEMENT			·
D. FIXED			
E. MULLION		,	
F. SKYLIGHTS	·		
G. OTHER			
3. PANEL WALL			
A. SIDING	MIDELMETTE	MR PAND WALL	3/397./
B. SOFFITS			
C. STOREFRONTS	·		
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL	MIDE MOTE	MULTI-RIB STRUUTURAL	23490.1
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS	1	7 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

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·	











Product Approval Menu > Product or Application Search > Application List > Application Detail

FL31397-R1 Revision Application Type 2020 Code Version Approved Application Status

Comments Archived

Product Manufacturer Address/Phone/Email Mid Florida Metal Roofing Supply/Supplies, Inc.

28328 County Road 561 Tavares, FL 32778 (352) 742-7070 amyprince@mfmrs.com

Authorized Signature

Amy Prince

 \supset

amyprince@mfmrs.com

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Category Subcategory Structural Components

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 Johnathan E. Green, P.E.

Evaluation Report

Florida License

PE-88223

Quality Assurance Entity

Keystone Certifications, Inc.

Quality Assurance Contract Expiration Date

02/10/2026 Brian Jaks, P.E.

Validated By

🛱 Validation Checklist - Hardcopy Received

Certificate of Independence

FL31397 R1 COI Letter of Certification-Mid Florida Metal Roofing Supply,

Inc. sealed.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

09/09/2020 Date Submitted 09/28/2020 Date Validated 11/04/2020 Date Pending FBC Approval 12/16/2020 Date Approved

Summary of Products

FL #	Model, Number or Name	Description							
31397.1	29 Ga. MFMRS Multi-Rib Wall Panel over 2x4 Wood Girts	29 Ga. MFMRS Multi-Rib Wall Panel over 2x4 Wood Girts							
Impact Resistar Design Pressure	e outside HVHZ: Yes it: N/A	Installation Instructions FL31397 R1 II FL31397.1 29ga MFMRS Multi-Rib Wall Panel sealed.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes Evaluation Reports FL31397 R1 AE FL31397.1 29ga MFMRS Multi-Rib Wall Panel sealed.pdf Created by Independent Third Party: Yes							



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Product Approval Accepts:







Credit Card Safe





Humble, Texas 77338
Phone: (281) 540-6603 FAX: (281) 540-9966
Website: www.forceengineeringtesting.com

Product Evaluation Report Mid Florida Metal Roofing Supply, Inc.

29ga MFMRS Multi-Rib Wall Panel Over 2x4 Wood Girts

Florida Product Approval # 31397.1 R1

Florida Building Code 2020 Per Rule 61G20-3 Method: 2 --B

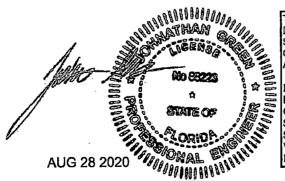
Category: Structural Components Subcategory: Structural Wall Compliance Method: 61G20-3.005(2)(b) NON HVHZ

Product Manufacturer:
Mid Florida Metal Roofing Supply, Inc.
28328 County Road 561
Tavares, Florida 32778
(352) 742-7070

Engineer Evaluator:
Johnathan Green, P.E. #88223
Florida Evaluation ANE ID: 12901

<u>Validator</u>: Brian Jaks, P.E. #70159

<u>Contents:</u> Evaluation Report Pages 1-4



THIS ITEM HAS BEEN
DIGITALLY SIGNED AND
SEALED BY JOHNATHAN
GREEN ON THE DATE
ADJACENT TO THE SEAL.



Humble, Texas 77338
Phone: (281) 540-6603 FAX: (281) 540-9966
Website: www.forceengineeringtesting.com

Compliance Statement:

The product as described in this report has demonstrated compliance with the

Florida Building Code 2020, Section 1709.2.

Product Description:

MFMRS Multi-Rib Panel, Min. 29 Ga. Steel, 36" Wide, through fastened wall panel.

Structural Application.

Panel Material/Standards:

Material: Min. 29ga Steel, ASTM A792 AZ50 Grade 80 conforming to Florida

Building Code 2020 Section 1507.4.3. Paint finish optional.

Yield Strength: Min. 80.0 ksi - 29ga

Corrosion Resistance: Panel Material shall comply with Florida Building Code

2020, Section 1507.4.3

Panel Dimension(s):

Thickness:

0.0125" min.

Width:

36" coverage

Rib Height:

3/4" major rib at 9" O.C.

Panel Fastener:

#12-8 x 1" HWH Woodgrip™ XG screws with sealing washing or approved equal at

9"-9"-7.5"-3" fastener pattern. Panel side laps fastened together w/ 1/4 x

7/8" HWH SD w/ sealer washer at 12" O.C.

Corrosion Resistance: Per Florida Building Code 2020.

Substrate Description:

Minimum #2 SYP 2x4 wood girts spaced a maximum 24" o.c. Framing must be

designed in accordance w/ Florida Building Code 2020.

Allowable Design Pressures:

Table "A"

Maximum Design Pressure:	-140.0 psf
Fastener Pattern:	9"-9"-9"-7.5"-3"
Fastener Spacing:	2'-0" O.C.

^{*}Design Pressure includes a Safety Factor = 1.5.



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GREEN ON THE DATE
ADJACENT TO THE SEAL.



Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966 Website: www.forceengineeringtesting.com

Code Compliance:

The product described herein has demonstrated compliance with

The Florida Building Code 2020, Section 1709.2.

Evaluation Report Scope:

The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2020, 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:

1. ASTM E 1592-01

PRI Construction Materials Technologies
Report No. FAE-008-02-01, Dated 06/18/2012

Certificate of Independence

By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing

(FBC Organization # ANE ID: 12901)

Test Standard Equivalency:

The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05 (2012)

test standard.

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.

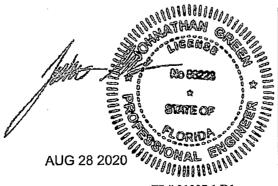
Shear Diaphragm:

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 2020 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 2020

Chapter 22 for steel, and Chapter 16 for structural loading.



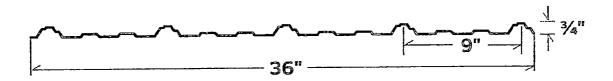
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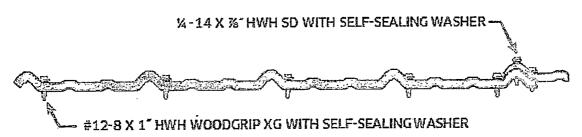
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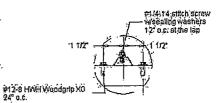
FL# 31397.1 R1



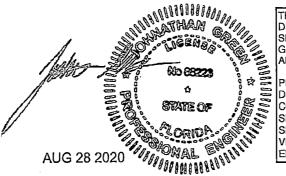
19530 Ramblewood Drive Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966 Website: www.forccengineeringtesting.com







Fastener Locations at Panel Overlap



THIS ITEM HAS BEEN
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Product Approval Menu > Product or Application Search > Application List > Application Detail

FL23490-R3 Revision Application Type 2020 Code Version Approved Application Status

Comments Archived

Mid Florida Metal Roofing Supply/Supplies, Inc. Product Manufacturer

28328 County Road 561 Address/Phone/Email Tavares, FL 32778 (352) 742-7070

amyprince@mfmrs.com

Amy Prince Authorized Signature amyprince@mfmrs.com

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Structural Components Category

Subcategory Roof Deck

Evaluation Report from a Florida Registered Architect or a Licensed Florida Compliance Method

Professional Engineer

Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Johnathan E. Green, P.E.

Evaluation Report

PE-88223 Florida License

Keystone Certifications, Inc. Quality Assurance Entity

02/10/2026 Quality Assurance Contract Expiration Date Steven M. Urich, PE Validated By

Validation Checklist - Hardcopy Received

FL23490 R3_COI Letter of Certification-Mid florida sealed.pdf Certificate of Independence

Referenced Standard and Year (of Standard) Standard <u>Year</u> **ASTM E1592** 2012 1992 FM 4471

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

06/07/2022 Date Submitted 06/08/2022 Date Validated 06/10/2022 Date Pending FBC Approval 08/09/2022 Date Approved

Summary of Products

FL #	Model, Number or Name	Description
23490.1	Multi-Rib Structural	29 Ga. Through-Fastened Structural Roof Panels Over Minimum 2x4 Purlins
Limits of Use Approved for us Approved for us Impact Resistan Design Pressure Other:	se outside HVHZ: Yes nt: N/A	Installation Instructions FL23490 R3 II 23490 29 Ga. MFMRS Multi-Rib Structural Roof-sealed.pdf Verified By: Johnathan E. Green, P.E. 88223 Created by Independent Third Party: Yes Evaluation Reports FL23490 R3 AE 23490 29 Ga. MFMRS Multi-Rib Structural Roof-sealed.pdf Created by Independent Third Party: Yes

Back Next

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Product Approval Accepts:







Credit Card Safe





Product Evaluation Report MID FLORIDA METAL ROOFING SUPPLY, INC.

Minimum 29 Ga. MFMRS Multi-Rib Roof Panel over 2x4 Wood Purlins

Florida Product Approval # 23490.1 R3

Florida Building Code 2020 Per Rule 61G20-3 Method: 1 –D

Category: Structural Components
Subcategory: Roof Deck
Compliance Method: 61G20-3.005(1)(d)
NON HVHZ

Product Manufacturer:
Mid Florida Metal Roofing Supply, Inc.
28328 County Road 561
Tavares, Florida 32778

Engineer Evaluator: Johnathan Green, P.E. #88223 Florida Evaluation ANE ID: 12901

> <u>Validator</u>: Steven Urich, P.E. #57795

<u>Contents:</u>
Evaluation Report Pages 1 – 5



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHNATHAN GREEN ON THE DATE ADJACENT TO THE SEAL.



Phone: (281) 540-6603, Fax: (281) 540-9966 Website: forceengineeringtesting.com

Compliance Statement:

The product as described in this report has demonstrated compliance with the

Florida Building Code 2020, Sections 1504.3.2, 1504.7.

Product Description:

MFMRS Multi-Rib Roof Panel, 29 Ga. Steel, 36" Wide, through fastened structural

roof panel over 2x4 wood purlins. Structural Application.

Panel Material/Standards:

Material: Minimum 29 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to

Florida Building Code 2020 Section 1507.4.3.

Yield Strength: Min. 80.0 ksi

Corrosion Resistance: Panel Material shall comply with Florida Building Code

2020, Section 1507.4.3.

Panel Dimension(s):

Thickness:

0.0145" min.

Width:

36" maximum coverage

Rib Height:

¾" major rib at 9" O.C.

Panel Fastener:

#12-8 x 1" HWH Woodgrip XG w/ ½" EPDM washing or approved equal. ½-14 x 7/8" HWH SD1 w/ EPDM washer through panel side laps at 12" O.C. Corrosion Resistance: Per Florida Building Code 2020, Section 1507.4.4.

Substrate Description:

Min. 2x4 No. 2 SYP wood purlins at 24" O.C. complying with 2020 Florida Building

Code. Framing must be designed in accordance w/ Florida Building Code 2020.

Allowable Design Uplift Pressures:

Table "A'

IGOI	<u> </u>
Maximum Design Uplift Pressure:	-105.0 psf
Fastener Pattern:	9"-9"-9"-6"-3"
Fastener Pattern Spacing:	24" O.C.

^{*}Design Pressure includes a Safety Factor = 2.0



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHNATHAN GREEN ON THE DATE ADJACENT TO THE SEAL.



Humble, Texas 77338

Phone: (281) 540-6603, Fax: (281) 540-9966

Website: forceengineeringtesting.com

Code Compliance:

The product described herein has demonstrated compliance with The Florida Building Code 2020, 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 2020, 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 for Roof Panels.

Reference Data:

1. ASTM E 1592-01

PRI Construction Materials technologies LLC Report No. FAE-008-02-01

- FM 4471-92, Section 5.4 Foot Traffic Resistance Test Force Engineering & Testing, Inc. Report No. 194-0134T-11A
- 3. Certificate of Independence By Johnathan Green, P.E. #88223

Test Standard Equivalency:

The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05 (2012) test standard.

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.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHNATHAN GREEN ON THE DATE ADJACENT TO THE SEAL.



Humble, Texas 77338 Phone: (281) 540-6603, Fax: (281) 540-9966 Website: forceengineeringtesting.com

Minimum Slope Range:

Minimum Slope shall comply with Florida Building Code 2020, 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 2020 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 2020

Chapter 23 for wood, and Chapter 16 for structural loading.

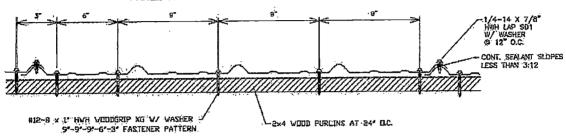


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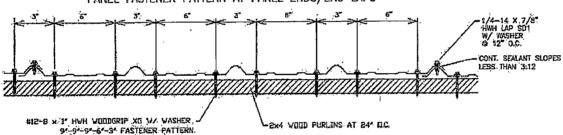


Website: forceengineeringtesting.com

PANEL FASTENER PATTERN AT INTERIOR



PANEL FASTENER PATTERN AT PANEL ENDS/END LAPS





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FL# 23490.1 R3





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Product Approval

part constitution of the second constitution of

FL # FL239-R28

Application Type Affirmation
Code Version 2020
Application Status Approved

Comments Archived

Product Manufacturer PGT Industries

Address/Phone/Email 1070 Technology Drive North Venice, FL 34275

(941) 486-0100 Ext 21140 jrosowski@pgtindustries.com

Authorized Signature Jens Rosowski

jrosowski@pgtindustries.com

Technical Representative Lynn Miller, P.E.
Address/Phone/Email 1070 Technology Dr

N Venice, FL 34275 (941) 486-0100 Ext 21142 Imiller@pgtindustries.com

Quality Assurance Representative

Address/Phone/Email

Category Windows
Subcategory Single Hung

Compliance Method Certification Mark or Listing

Certification Agency Miami-Dade BCCO - CER
Valldated By Miami-Dade BCCO - VAL

Referenced Standard and Year (of Standard)

 Standard
 Year

 TAS 201, 202, 203
 1994

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

Date Submitted 11/05/2020 Date Validated 11/05/2020

Date Pending FBC Approval

11/11/2020 Date Approved

Summary of Products

FI. # Model, Number or Name SH5400 (Non-Impact)

Limits of Use

239.1

Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes

Impact Resistant: No Design Pressure: N/A

Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.

239,2

SH5500 (Large Missile Impact)

Limits of Use

Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes

Impact Resistant: Yes Design Pressure: N/A

Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.

239.3

SH7600 (Non-Impact)

Limits of Use

Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes

Impact Resistant: No Design Pressure: N/A

Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.

239.4

SH7700 (Large Missile Impact)

Limits of Use

Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes

Impact Resistant: Yes Design Pressure: N/A

Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.

Description

Vinyl Single Hung Window

Certification Agency Certificate

Quality Assurance Contract Expiration Date

07/30/2025

Installation Instructions

Verified By: Miami-Dade BCCO - CER Created by Independent Third Party:

Evaluation Reports

Created by Independent Third Party:

Vinyl Single Hung Window

Certification Agency Certificate

Quality Assurance Contract Expiration Date

07/30/2025

Installation Instructions

Verified By: Miami-Dade BCCO - CER Created by Independent Third Party:

Evaluation Reports

Created by Independent Third Party:

Aluminum Single Hung Window

Certification Agency Certificate

Quality Assurance Contract Expiration Date

08/23/2023

Installation Instructions

Verified By: Miami-Dade BCCO - CER Created by Independent Third Party:

Evaluation Reports

Created by Independent Third Party:

Aluminum Single Hung Window

Certification Agency Certificate

Quality Assurance Contract Expiration Date

08/23/2023

Installation Instructions

Verified By: Mlamf-Dade BCCO - CER Created by Independent Third Party:

Evaluation Reports

Created by Independent Third Party:

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Product Approval Accepts:

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Safe

MIAMI-DADE

1:143

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami. Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc. 1070 Technology Drive North Venice, FL 34275

Scope: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zonc.-

DESCRIPTION: Series "SH7700A" Aluminum Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 7700NOA-1, titled "Aluminum Single Hung Install (LM)", sheets 1 through 11 of 11, dated 04/01/18, with revision A dated 03/11/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 18-0430.06 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

NOA No. 20-0401.11 Expiration Date: August 23, 2023 Approval Date: July 30, 2020

MIAMI-DADE COUNTY

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Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Submitted under NOA # 18-0430.06

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 7700NOA-1, titled "Aluminum Single Hung Install (LM), sheets 1 through 11 of 11, dated 04/01/18, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No.

FTL-18-7835.1, dated 04/03/18, signed and sealed by Idalmis Ortega, P.E.

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.

FTL-18-7835.2, dated 05/04/18, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 6th **Edition (2017)**, dated 04/23/18, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0401.11
Expiration Date: August 23, 2023
Approval Date: July 30, 2020

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 17-1114.14 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/18/18, expiring on 07/08/19.
- 2. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

- 1. Statement letter of conformance to FBC 6th Edition (2017), dated April 24, 2018, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest, dated April 24, 2018, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 3. Proposal No. 18-0005R issued by the Product Control Section, dated 01/16/18, signed by Manuel Perez, P.E

G. OTHERS

1. None.

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New Evidence Submitted

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 7700NOA-1, titled "Aluminum Single Hung Install (LM)", sheets 1 through 11 of 11, dated 04/01/18, with revision A dated 03/11/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14 FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) FTL-20-2107.2, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) FTL-20-2107.3, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and FTL-20-2107.4, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017) and FBC 7th Edition (2020), dated 03/13/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

D. QUALITY ASSURANCE

1. Miami- Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0401.11
Expiration Date: August 23, 2023
Approval Date: July 30, 2020

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC 6th Edition (2017) and FBC 7th Edition (2020), dated March 10, 2020, issued by manufacturer, signed and scaled by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest, dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 3. Proposal No. 19-1155 TP issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.

G. OTHERS

1. Notice of Acceptance No. 18-0430.06 issued to PGT Industries, Inc. for their "Series "SH7700A" Aluminum Single Hung Window – L.M.I." approved on 08/23/18 and expiring on 08/23/23.

SERIES SH7700A IMPACT RESISTANT SINGLE HUNG WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST BE TEMPERED, USE ONLY GLASS TYPES 3, 7, 12, 13 OR 15.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS, MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER, 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO, USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED, OVERALL SEALING & FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) 1/4" MAX, SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

7) DESIGN PRESSURES:

- A NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM F1300
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
- C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD,

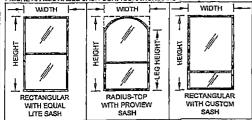
8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD, ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION

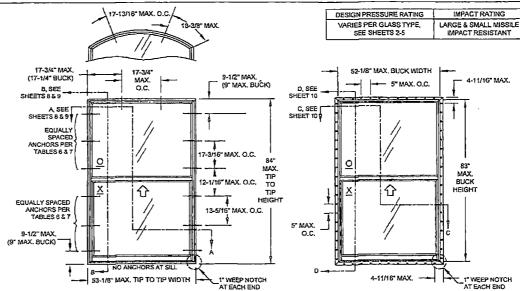
10) REFERENCES: TEST REPORTS FTL 18-7835.1 & 18-7835.2; ELCO ULTRACON NOA: DEWALT/ELCO CRETEFLEX NOA: DEWALT ULTRACON + NOA: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS & ALUMINUM DESIGN MANUAL

11) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

FIGURE A: ALLOWABLE SASH CONFIGURATIONS AND SHAPES



ALL SHAPES WITH ALL SASH CONFIGURATIONS ARE APPROVED. SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE FROM THE TABLES ON THE FOLLOWING SHEETS.



ELEVATION FOR TYP. FLANGE FRAME SHOWN WITH EQUAL-LITE CONFIGURATION

TABLE 1: ALLOWABLE GLASS TYPES

	Glass Type	Description (Listed from Exterior to Interior)	Table #
- 1	1	1/8"AN, .090" PVB, 1/8" AN	2
1	2	13/16" LIG: 1/8" AN CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN	2
	3	13/16" LIG: 1/8" TP CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN	3
	4	1/8" HS, .090" PVB. 1/8" HS	4
ᄓ	5	3/16" AN, .090" PVB, 3/16" AN	4
ı	6	13/16" LIG: 3/16" AN CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN	4
	7	13/16" LIG: 3/16" TP CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN	4
1	8	3/16" AN, .090" SG, 3/16" AN	5
1	9	3/16" HS, .090" SG, 3/16" HS	5
Ì	10	13/16" LIG: 1/8" AN CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS	5
ı	11	13/16" LIG: 1/8" AN CAP, AIRSPACE, 3/16" AN, .090" SG, 3/16" AN	5
1	12	13/16" LIG: 1/8" TP CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS	5
1	13	13/16" LIG: 1/8" TP CAP, AIRSPACE, 3/16" AN, .090" SG, 3/16" AN	5_
Ì	14	13/16" LIG; 3/16" AN CAP , AIRSPACE, 1/8" HS, .090" SG, 1/8" HS	5
Ī	15	13/16" LIG: 3/16" TP CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS	5

CODES / STANDARDS USED:

- ■2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION ●2017 FLORIDA BUILDING CODE (FBC), 5TH EDITION ASTM F1300-09
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- OALUMINUM DESIGN MANUAL, ADM-2015
- AISt S100-16 AISC 360-16

KURARAY AMERICA, INC. PVB = KURARAY TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.

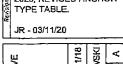
AN = ANNEALED HS = HEAT-STRENGTHENED

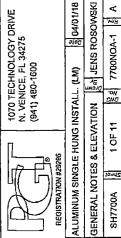
PRODUCT REVISED as complying with the Fierida Building Code 20-0401.11

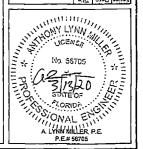
Expiration Date 08/23/2023

Miami-Dade Product Control

A) UPDATED TO FBC 2020, REVISED ANCHOR TYPE TABLE.







Serios Desc. Title

SG= KURARAY SENTRYGLAS® INTERLAYER BY

TP = TEMPERED

GENERAL NOTES ELEVATIONS. DESIGN PRESSURES / GLAZING DETAILS. ANCHOR QUANTITIES... INSTALLATION, FLANGE INSTALLATION, EQUAL LEG. INSTALLATION, INTEGRAL FIN. EXTRUSION PROFILES. ASSEMBLY & PARTS LIST.

ELEVATION FOR TYP. FIN FRAME SHOWN WITH

EQUAL-LITE CONFIGURATION

1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN

CONFIGURATION AND SIZE, DETERMINE YOUR WINDOWS DESIGN

PRESSURE FROM TABLES 2-5. IT MUST EQUAL OR EXCEED THE

DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING

FOR EQUAL LEG INSTALLATION OR SHEET 9 FOR INTEGRAL FIN

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (FLANGE, INTEGRAL FIN OR

3) DETERMINE THE ANCHOR QUANTITY FROM TABLES 5 & 7. 4) INSTALL AS PER SHEET 7 FOR FLANGE INSTALLATION, SHEET 8

2) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW

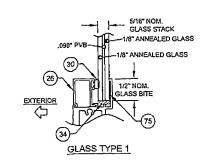
USER INSTRUCTIONS:

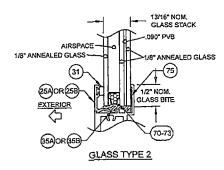
OBTAINED IN STEP 1.

FOUAL LEG/BOX).

PRESSURE REQUIREMENT FROM ASCE 7.

	Bottom Sash	Sash Height					Des	sign Pr	essure	(ibs/ft	n for G	lass Ty	pes 1	& 2				
	Description	Range (m)				_				Tip to T	p Width							
	for Ghen Ranga	, and go (any	18	3	2	5"	33	3"	37	-	41	,	45	7	49		23-	
24"	Equal-lite	12.464	+65.0	-80,0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.
	Equal-lito	15,964	+65.0	-80.0	+65.0	-80.0	+55.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-B0.C	+65.0	-80.0	+65,0	-80.
31*	Standard Proview	12.994 - 15.963	+65.0	-80.0	+65.0	-80.D	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+55.0	-20.0	+65.0	-80.
	Shortest	12.484 - 12.993	+65.0	-80.0	+65.0	O.08-	+65.0	D.09-	+65.0	-50.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80
├─	Equal-lito	19.652	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65,0	-60.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-60
1	Standard Proview	15,944 - 19,651	+65.0	-80.0	+65.0	-80.0	+85.0	-80.0	+65.D	-80.0	+65.0	-80,0	≠85.0	-80.0	+65.0	-80.0	+55.0	-80 -80
38-3/8"	Custom Size	15.131 - 15.943	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+85.0	-80,0	+65,0	-80.0		-80
l	Custom Size	14,131 - 15,130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+85.0	-80.0	+65.0	-80.0	+65.0	_
	Shortest	12.464 - 14.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.C	-80
_	Equal-lite	22.964	+65.0	-80.0	+65.0	-80.0	+65.0	~60.0	+65.0	-80.0	+65.0	-80.D	+65.0	-80.0	+65.0	-80.0	+65.0	-80
1	Custom Size	20.131 - 22.963	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65 C	-80.0	+65.0	-80.0	+85.0	-80.0	+65,0	-80.0	+65.0	-80 -80
	Standard Proview	18.594 - 20.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65,0	-80.0	+65.0	-20.0	+65.0 +65.0	-80
45"	Custom Sizo	16,131 - 18,593	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0		+65,0	
	Custom Size	15,131 - 16.130	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-B0.0	+65.0	-80,0	+85.0	-80.0	±65.0	0.03- 0.08-	+65.0	-80 -80
	Custom Size	14,131 - 15,130	+65.0	-80,0	+65.0	-80.0	+55.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65,0	-80.0	+65.0		+65.0	-80
Į.	Shortest	12.464 - 14.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65 0	-80.0	+55.0	-80.0	+65.0	-80.0	+65.0	-80.0		
	Equal-tito	24.964	+65.0	-80.0	+65.0	-80.0	+65.0	-20.0	+65.0	-80.0	+65.0	-20.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80
	Custom Size	22.131 - 24.963	+65.0	-80.0	+65.0	-80.0	+65.0	-60.0	+85.0	-80.0	+65.0	-80.0	+65,0	-80.0	+65.0	-80.0	+65.0 +65.0	-80
	Standard Provew	20.194 - 22,130	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+85.D	-80.0	→65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80
49"	Custom Size	18,131 - 20,193	+65.0	-80.0	+65.0	-60.0	+65.0	-60.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65,0	-80.0 -80.0	+65.0	-80
	Custom Sizo	16.131 - 18.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0		+65.0	-77
	Custom Size	14,131 - 16,130	+65.0	-85.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65,0	-80.0	+65 0	-80.0		
	Shortest	12,464 - 14,130	+65,0	-80.0	+65.0	-60.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	→65.D	-80.0 -80.0	+65.0	-75
	Equal-lite	25.777	+65.0	-80.D	+65.0	-60.0	+65.0	-80.0	+65,0	-80.0	+65.0	-80.0	+65,0	-80,0	+65.D		+650	-80
	Custom Size	24.131 - 25.776	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+55.0	-80.0	+65.0	-80.0	+65.D	-80.0 -80.0	+65.0	-80
	Standard Proviow	20,844 - 24,130	+65.0	-80.0	+65.0	-80.0	+65.0	-20.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0		-80.0	+65.0	-80
50-5/8	Custom Size	20,131 - 20.843	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.D	+65.0	-80.0	+65.0	-60.0	+65.0	-80.0	+65.0	-84
30-3/3	Custom Sizo	18.131 - 20.130	+55.0	-80,0	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0		-80.0	+65.0	-7
1	Custom Size	16.131 - 18.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+55,0	-80,0	+65,D	-80.0	+65.0	-73
1	Custom Size	14,131 - 15,130	+65.D	-80.0	+65.0	-60.0	+65.0	-80.0	+65.0	-30.0	+65,0	-80.0	+65.0	-80,0	+65.0			
	Shortest	12464 - 14,130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65,0	-80,0	+65.0	-80.0	+65.0	-7.
	Equal-lite	31.954	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-60.0	+65.0	_
	Custom Size	28,131 - 31,963	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-EQ.0	+65.0	-80.0	+65.D	-80.0	+65.0	-80.0	+65.D	-7.
	Standard Provow	25.794 - 26.130	+65.0	-80.0	+65.0	-80.0	+65.0	-\$D.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-T.
	Custom Size	24.131 - 25.793	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65,0	-60.0 -78.6		-7.
63"	Custom Size	22,131 - 24,130	+65.0	-E0.0	+65.0	-80.0	+85.0	-80.0	+55.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0		+65.0	-6
	Custom Size	20.131 - 22.130	+65,0	-80.5	+65.0	-80.0	+65.Q	-80.0	+65.0	-80,0	+65,0	-80.0	+65.0	-80.0	+65.0	-77.1 -75.4	465.0 465.0	-6
1	Cuatom Size	18.131 - 20.130	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-60.0	+65.0	-80.0		-75.4	+64.7	-5
	Custom Size	16,131 - 18,130	+65.0	-8075	+65.0	-80.0	+65.0	-80,0	+65,0	-80.0	+65.0	-80.0	+65.0	-77.1	+65.0			_
	Shortest	13.194" - 15.130	+65.0	-8D.D	+65.0	-60.0	+65.0	-80,0	+65.0	-80.0	+65.D	-75.9	+65.0	-71.8	+65.0	-58.2	+62.3	-6
	Equalitie	38.464	+650	-80,D	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65,0	-80.0	+65.0	-60.0	1	<u> </u>
1	Custom Size	36.131 - 38,463	+65.0	-80.0	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-79.8	+65.0	-7
	Custom Size	34.131 - 36,120	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65 0	-80.0	+65.0	-77.9	465.0	-6
761	Standard Provew	30,994 - 34,130	+65.0	-80.0	+65.0	-80.0	≁65.0	-BO.D	+65.0	-80.0	+65.0	-80.0	+85.0	80.0	+65.0	-75.4	+65.0	-6 -8
	Custom Sizo	20.131 - 33.993	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+55,0	-80.0	+65.0	-80.0	+65.0	-78.9	+65.0	-74.6	465.0	
	Custom Size	28,131 - 30,130	+65.0	-80.0	+65.0	-80.0	+65.0	80.0	+65.0	-80,0	+65.0	-79.1	+65.0	-75.3	+65.0	-71.9	+63.8	-5
	Shortest	26.194* - 28.130	+65.0	-80.0	+65.0	-60.0	+65.0	-80.0	+65.0	-80.0	+65.D	-75.9	+85,0	-71.8	+65.0	-68.2	+623	-6
	Equal-fite:	42.464	+65.0	-80.0	+65.0	-80.0	+65 0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-77.9	+65.0	1-6
84	Custom Size	38.131 - 42.463	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-78.9	+65.0	-74.6	+65.0	-6
1	Standard Provew	34.194" - 38.130	+65.0	-80.0	+65.0	-60,0	+65.0	-80.0	+65.0	-80.0	+65.0	-75.9	+65.0	-71.8	+65.0	-68.2	+62.3	1 -

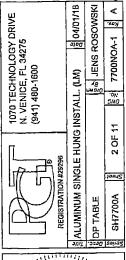




PRODUCT REVISED as complying with the Florida Building Code 20-0401.11 Expiration Date 08/23/2023 Miami-Dade Product Control

A) NO CHANGES THIS SHEET.

JR - 03/11/20



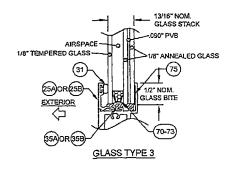


-MINBMUM SASH HEIGHT FOR FLANGED WINDOWS IS: TIP TO TIP HEIGHT - 49.391
MINBMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG WINDOWS IS: BUCK HEIGHT - 48.391
MINIMUM SASH HEIGHT FOR FLANGED, RADIUS TOP WINDOWS IS: TIP TO TIP HEIGHT - 49.806
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG, RADIUS TOP WINDOWS IS: BUCK HEIGHT - 48.806

1) TIP TO TIP DIMENSIONS SHOWN, FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

1) TIP TO TIP DIMENSIONS SHOWN, FOR INTEGRAL FIX AND ELOCALLES WINDOWS, SUBTRACT I PROBLET FOR DIMENSIONAL TREE STATES AND LEGAL FIX AND ELOCAL FIX AND ELOCAL FIX AND ELOCAL FIX AND ELOCAL FIX WINDOWS, FIND THE SMALLEST WINDOWS SIZE IN THE TABLE ABOVE WHICH THE RADIUS TOP WINDOWS WILL COMPLETELY FIT WITHIN, 3) FOR RADIUS TOP WINDOWS, FIND THE SMALLEST WINDOWS SIZE IN THE TABLE ABOVE WHICH THE RADIUS TOP WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF +65 PSF, NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.

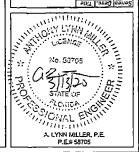
Obserption or Given Rango or Given State of Given State of Given Rango or Given R	Rango (in) 12.464 15.964 12.994-15.963 12.464-12.993 19.652 15.944-19.651 15.131-15.130 14.131-15.130 12.464-14.130 12.464-14.130 12.464-14.130 12.161-161.130	+65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0 -80.0 -80.0 -80.0 -80.0 -80.0	+65.0 +85.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0 -80.0 -80.0	+65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0	+65.0 +65.0 +65.0	7" -80.0 -80.0	+65.0 +65.0	-80.0 -80.0	45 +65.0 +65.0	-80.0 -80.0	+65.0 +65.0	-80.0 -80.0	53-1 +55.0 +65.0	-80
Equal-life Equal-life Equal-life Equal-life Equal-life Equal-life Landard Proviow Custom Size	15,954 - 15,963 12,464 - 12,993 19,652 15,944 - 19,551 15,131 - 15,130 14,131 - 15,130 12,464 - 14,130 22,964 20,131 - 22,963 16,554 - 20,130 16,131 - 18,593	+65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0 -80.0 -80.0 -80.0 -80.0	+65.0 +65.0 +65.0 +65.0 +65.0 +55.0 +65.0	-80.0 -80.0 -80.0 -80.0 -80.0	+65.0 +65.0 +65.0 +65.0 +65.0	0.03- 0.03- 0.03- 0.03-	+65.0 +65.0 +65.0	-80.0 0.08-	+65.0 +65.0	-80.0 -80.0	+65.0 +65.0	-80.0 -80.0	+65.0 +65.0	-80.0 -80.0	+65.0 +65.0	-80
Equal-lita tandard Provow Shortest Equal-lito tandard Provlow Custom Size Custom Size Shortest Equal-lite Custom Size	15,954 - 15,963 12,464 - 12,993 19,652 15,944 - 19,551 15,131 - 15,130 14,131 - 15,130 12,464 - 14,130 22,964 20,131 - 22,963 16,554 - 20,130 16,131 - 18,593	+65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0 -80.0 -80.0 -80.0	+85.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -60.0 -80.0 -80.0	+85.0 +65.0 +65.0 +65.0	-80.0 0.03- 0.03-	+65.0 +65.0	-80.0	+65.0	-8D.O	+65.0	-80.0	+65.0	-80.0	+65.0	
Shartost Equal-lite tandard Proviow Custom Size Custom Size Shortest Equal-lite Custom Size Shortest Equal-lite Custom Size	12.994 - 15.963 12.464 - 12.993 19.652 15.944 - 19.651 15.131 - 15.943 14.131 - 15.130 12.464 - 14.130 22.964 20.131 - 22.963 16.594 - 20.130 16.131 - 18.593	+65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0 -80.0 -80.0	+65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0	+65.0 +65.0 +65.0	-80.0 -80.0	+65.0									
Shortest Equal-lite tandard Proviow Custem Size Custem Size Shortest Equal-lite Custem Size andard Proviow Custem Size Custem Size Custem Size Custem Size Custem Size Custem Size	12.464 - 12.993 19.652 15.944 - 19.651 15.131 - 15.943 14.131 - 15.130 12.464 - 14.130 22.964 20.131 - 22.963 18.594 - 20.130 16.131 - 18.593	+65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0 -80.0	+65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0	+65.0 +65.0	-80.0		-80.0								-8
Equal-lito tanderd Proviow Custom Size Custom Size Shortest Equal-lite Custom Size	19,652 15,944 - 19,651 15,131 - 15,943 14,131 - 15,130 12,464 - 14,130 22,964 20,131 - 22,963 18,594 - 20,130 16,131 - 18,593	+65.0 +65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0 -80.0	+65.0 +65.0 +65.0 +65.0	-80.0 -80.0	+65.0				+65.0	-80.0	+65.0	-80.0	≠ 65.0		+65.0	-8
tandard Proview Custom Size Custom Size Shortest Equal-lite Custom Size siandard Proview Custom Size Custom Size Custom Size Custom Size Custom Size	15,944 - 19,651 15,131 - 15,943 14,131 - 15,130 12,464 - 14,130 22,964 20,131 - 22,963 18,594 - 20,130 16,131 - 18,593	+65.0 +65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0 -80.0	+65.0 +65.0 +65.0	-80.0		-SD D	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65,0	-8
Custom Size Custom Size Shortest Equal-lite Custom Size tandard Provew Custom Size Custom Size Custom Size Custom Size	15.131 - 15.943 14.131 - 15.130 12.464 - 14.130 22.964 20.131 - 22.963 18.594 - 20.130 16.131 - 18.593	+65.0 +65.0 +65.0 +65.0 +65.0	-80.0 -80.0 -80.0	+65.0 +65.0		455.0	-00.0	+65.0	-80.0	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65,0	-8
Custem Size Shortest Equal-lite Custom Size taindard Proview Custom Size Custom Size Custom Size Custom Size	14.131 - 15.130 12,454 - 14.130 22.964 20.131 - 22.963 18.594 - 20.130 16.131 - 18.593	+65.0 +65.0 +65.0 +65.0	-80.0 -80.0	+65.0	-80,0	- 00.0	-80.0	+65.D	-80.0	+65.0	-80.D	+65.0	-80.G	+65.0	-80,0	+65.0	[]
Shortest Equal-life Custom Size taindard Proview Custom Size Custom Size Custom Size	12,464 - 14,130 22,964 20,131 - 22,963 18,594 - 20,130 16,131 - 18,593	+65.0 +65.0 +65.0	-80.0			+65.0	÷0.0	+65.0	70.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	7
Equal-lite Custom Sizo tandard Proview Custom Sizo Custom Sizo Custom Sizo	22.964 20.131 - 22.963 18.594 - 20.130 16.131 - 18.593	+65.0 +65.0			-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.O	+55.0	-80.0	+65.0	-
Custom Sizo tandard Proview Custom Sizo Custom Sizo Custom Sizo	20.131 - 22.963 18.594 - 20.130 16.131 - 18.593	+65.0	-80.0	+65,0	-80.0	+65.0	-60.0	+65.0	-30.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-
tandard Proview Custom Size Custom Size Custom Size	18.594 - 20.130 16.131 - 18.593			+65.0	-80.0	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-60.C	+65.C	-80,0	+65.0	1
Custom Size Custom Size Custom Size	16.131 - 18.593		-B0.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	ß
Custom Size		403.U	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	≠65,0	-80.0	+65.0	7
Custom Size	45 121 15 120	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+85.0	-80.0	+65.0	1
	13.131 - 10.130	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-83.0	+65.0	-80.0	+65.0	3
Shortest	14,131 - 15,130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	≠ 65.0	-30.0	+65.0	-80,0	+65.0	-80.0	≁65.0	-80.0	+65.0	Ŀ
	12,454 - 14,130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+55. □	-30.0	+65.0	-80.0	+65.0	-85.0	+65.0	-60.0	+65.0	4
Equal-lite	24,964	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-ED.Q	→65.0	-
Custom Size	22.131 - 24.953	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-30.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	Ŀ
tandard Proview	20.194 - 22.130	+65.0	-80.0	+65,0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.D	+65.0	-80.0	+65.0	-80.0	+65.0	1
Custom Size	18,131 - 20,193	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80,0	+65.0	-80,0	+65.0	-80.0	+65.0	ᅼ
Cuatom Sizo	15.131 - 18.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65,0	-80.0	+85.0	-60.0	+65.0	Ŀ
Custom Size	14,131 - 16,130	+65.D	-80.0	+65.0	-80.0	+65,0	-80.0	+65.0	-80.0	+65.0	-80.D	+65.0	-80,D	+65.0	0.03-	+65.0	_
Shortest	12.464 - 14.130	+65.D	-80.0	+65,0	-80.0	+65.0	-80.0	+65.0	-30.0	+65.0	-80.0	+65,0	-80.D	+65.0	-80.0	+65.0	4
Egual-lite	25.777	+65.0	-80.0	+55.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-B0.0	+65.0	•
Custom Size	24.131 - 25.776	+65.0	-0.08-	+650	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,D	+65 O	-80.0	+65.0	-
tandard Proview	20.844 - 24 130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	Q.0B-	+65.0	-30.0	+65.0	-
Custom Sizo	20.131 - 20.843	+65.0	-80.0	+65.0	-60.0	+65.0	-80.0	+65.0	-\$0.0	+65.0	-80.0	+65.0	-80.0				Ŀ
Custom Size	18.131 - 20.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-30.0	+65.D	-80.0	+65.0					-
Custom Sizo	15,131 - 18,130	+65.0	-80,0	+65.0	-80.0	+65.0	-30.0	+65.0	-30.0	+65.0	-80.0	+65.0	-80.0				1
Custom Size	14.131 - 16.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0		+65.0			_		Ŀ
Shartost	12.454 - 14.130	+65.0	-80,0	+65.0	-80.0	+55.0	-80.D	+65.0	-30.D	-65 C	-80.0	+65.0	-80.0				Ŀ
Equal-Mc	31,964	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-60.0	+85.0	-80.0				_
Custom Size	28,131 - 31,963	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+55.0	-80,0	+65,0	-80.0	→65. 0	-80.0				Γ-
tandard Proview	25,794 - 28.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-30.0	+65.0	-80.0	+65.0	-80.0				Ŀ
Custom Size	24,131 - 25,793	+65.0	-80.0	+65.D	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0				Ŀ
Custom Size	22.131 - 24.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0	+65.0	-B0.0	+65 Q	-80.0	+65.0	1
Custom Size	20.131 - 22.130	+65.0	-80.0	+65.0	-80.0	+65.0	-20.0	+65.0	-60.0	+65.0	-80.0	+65.0	-80,0				-
Custom Size	18,131 - 20,130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.G	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0				Ŀ
Custom Size	16,131 - 18.130	+55.0	-80.0	+65.0	-80.C	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0				ŀ
Shortoot	13.194" - 16.130	+65.0	-60.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0				Ŀ
Equal-life	38.464	+65.0	-80.0	+65.0	-80.0	+65.0	-60.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80.0		١٠
Custom Size	35,131 - 38,463	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-50.0	+65.0	-80.0				ŀ
Custom Size	34,131 - 36,130	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-60.0	+86.0	-60.0				Ŀ
tandard Provide	30.994 - 34.130	+65.0	-80,0	+65.0	-20.0	+65.0	-60.0	+65.0	-80.0	+65.0	-80.0	+55.0	-60.0			1	Ŀ
Custom Size	30.131 - 30.993	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	455.D	-30.0	◆65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	F
Custora Sizo	28.131 - 30.130	+65.0	-80.0	+65.0	-80.0	+65.0	-80,0	+65.0	-80,0	+65.0	-80,0	+65.0	-80.0	+65.D			ŀ
Shortest	26.194* - 28.130	+65.0	-80,0	+65.0	-80.0	+65.0	-50.0	+65.0	-30.0	+65.0	-80.0	+65,0	-80.0	+65.0	-77.7	+65.0	Ŀ
	42.464	+65.0	-80.0	+65.D	-80.0	+65.0	-80.0	+65.0	-30.0	+65.0	-60.0	+65.0	-80.0	+65.0	-80.0	+65.0	-
Oustom Size	38.131 - 42.463	+65.0	-80,0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.D	-80.0	+65.0	Ŀ
Standard Proviow		+65.0	-80,0	+65.0	-80.0	+65.D	80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-77.7	+65.0	ŀ
C C C C C C C C C C C C C C C C C C C	Destorn Size Shortest Equal-Mac Destorn Size Equal-Mac Destorn Size Indiand Provider Loadern Size Destorn Siz	Design 14.131 - 16.130	14.131 - 16.130 465.0	Note	Design 12,444 14,130 465,0 4	Design 14.131 16.130 465.0 480.0 465.0 480.0	Design 12.464 - 14.130 465.0 480.0 465.0 480.0 465.0 480.0 465.0 480.0 4	Design 12,464 14,130 465.0 4	Nation Size 14,131 - 16,132 465.0 490.0 465.0 465.0 460.0 46	Note	Design Sec. 14,131 - 16,130 465.0 480.0 465.0 480.0 465.0 480.0 465.0 480.0 485.0 48	Company Comp	Section Size 14.131 - 16.132 465.0 480.0 +65.0 480	Note	Description 14.131 - 16.132 45.50 40.0 45.0 40.0 45.0 40.0 45.0 40.0 46	Destrom Size 14.131 - 16.132	Destination State 14.131 - 16.130



PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0401.11 Expiration Date 08/23/2023 Mlami-Dade Product Control

A) NO CHANGES THIS SHEET. JR - 03/11/20

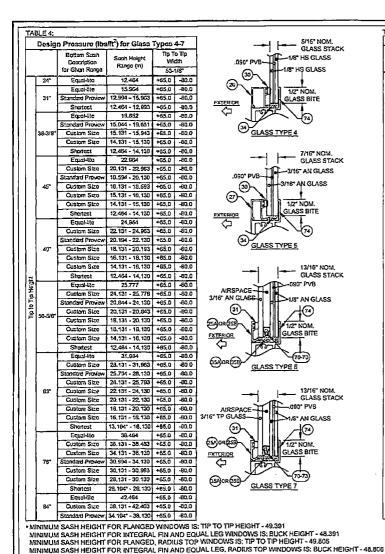
8 04/01/18 हुँक JENS ROSOWSKI 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (841) 480-1600 ⋖ Rou. 7700NOA-1 ALUMINUM SINGLE HUNG INSTALL. (LM) האם. מם. 30F Sheet OP TABLE SH7700A



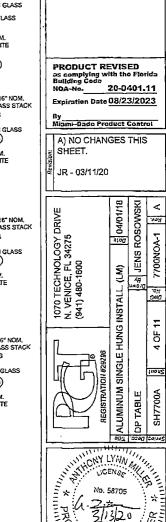
Sones Desc. Title

1) TIP TO TIP DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
3) FOR RADIUS TOP WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE RADIUS TOP WINDOW WILL COMPLETELY FIT WITHIN.
4) WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF +65 PSF. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.



	BLE 5:					
12		sign Pressure	for Glass Type	≈ 8-15	Ma 3/15" AN GLASS	MI 3/16" HS GU
r		Bottem Sosh Description	Sach Height	TIP TO TIP Width	.090° SG	.090° SG
l		for Given Range	Rango (in)	53-1/5"		
Г	247	Equalino	12.454	+80,0 -110.0		U 1/2" NOM.
		EdiaHiso	15,984	+80,0 -110.0	EXTERIOR GLASS BITE	EXTERIOR CLASS SITE
	31"	Standard Proviow	12.934 - 15.983	+80.0 -110.0		
}		Shortcot	12,464 - 12,993	+80.0 -110.0	74)	(1)
ł		EqualHito	19.652	+80.0 -110.0	GLASS TYPE 8	GLASS TYPE 9
1		Standard Provine	15.944 - 19.651	+80.0 -110.0	<u>55455 1 (1 2 5</u>	22.0011140
	38-3/8	Custom Size	15.131 - 15.943	+80.0 -110.0	1 13/16* NOM.	1 13/16" N
1		Custom Sizo	14.131 - 15.130	+80.0 -110.0	GLASS STACK	GLASS
		Shortest	12.484 - 14,130	+BD,0 -110.0	090° SG	.090° SG
		Equal-ido	22.964	+80.0 -110.0 +80.0 -110.0	AIRSPACE	AIRSPACE-
		Custom Sizo	20,131 - 22,983 18,594 - 20,130	+80.0 -110.0 +80.0 -110.0		1/8" AN GLASS 3/16" AN GL
		Standard Proview Custom Sizo	16.131 - 18.593	+80.0 -110.0 +80.0 -110.0	७√, [, -‡@	◎ \ /- 0
	45'	Custom Size	15.131 - 16.130	+80.0 -110.0	(SA)OR(SB) 1/2 NOM.	(5) OR (58) 1 1 1/2" NOM.
	ł	Custom Size	14,131 - 15,130	+80.0 -110.0	EXTERIOR GLASS BITE	EXTERIOR GLASS BITE
i	1	Shortest	12.484 - 14.130	+80.0 -110.0		
	L	Equal-to	24.964	+83.0 -110.0		
		Custom Size	ZZ.131 • Z4,963	+80.0 -110.0	65AOR 658) (70-73)	(70-73)
		Standard Proviow	20.194 - 22.130	+60.0 -110.0	GLASS TYPE 10	GLASS TYPE 11
	49"	Cuntom Size	18.131 - 20.193	+60.0 -110.0		
	75	Custom Size	16,131 - 18,130	+80.0 (-110.0		
		Custom Size	14.131 - 16.130	+60.0 -110.0	13/16" NOM. GLASS STACK	13/16" N GLASS
١.	l i	Shortest	12.484 - 14.130	+80.0 -110.0		11 L.090 SG
Tr Hsigh	-	Equal-lite	25,777	+B0.0 -110.0	AIRSPACE	AIRSPACE -
뽀	i	Custom Sizo	24,131 - 25,776	+60.0 -110.0	1/8" TP GLASS	1/8" TP GLASS
F	!	Standard Proview	20.844 - 24.130	+80.D -118.0	⊕√ ∏ /4,00	(a)
5 5	}	Custom Size	20,131 - 20,843	+60 D -110 O		(254) OR (258) PT 12' NOM
F	50-5/8"	Custom Size	18.131 - 20.130	+80.0 -110.D	1 0 0 10 10 10 10 10 10 10 10 10 10 10 1	
1	1	Custom Sizo	16.131 - 18.130	+E0.0 -110.0	[232, 232, 232, 232, 232, 232, 232, 232	EXTERIOR GLASS BITE
1	1	Custom Size	14.131 - 16.130	+80.0 -110.0		C POR
		Shortest	12,464 - 14,130	+80.0 -110.0		(70-73)
	_	Equal-lite	31.964	+60.0 -110.0	GLASS TYPE 12	(SA)OR(SB) GLASS TYPE 13
ļ	1	Custom Size	28.131 - 31.963	+80.0 -110.0		
		Standard Provew	25,794 - 28,130	+80.0 -110.0		
		Custom Size	24.131 - 25.793	+80.0 -110.0	13/16" NOM.	13/16" N GLASS S
1	63°	Custom Sizo	22.131 - 24,130	+80.0 -110.0	GLASS STACK	080" SG
ł		Custom Size	20.131 - 22.130	+60.0 -110.0	AIRSPACE	AIRSPACE-
l		Custom Size	18.131 - 20.130	+80.0 -110.0	3/16" AN GLASS 1/8" HS GLASS	3/18" TP GLASS
		Custom Size	16,131 - 18,130	+80.0 -110.0	ା ଉ∖ା∭ା ୷ଲ	⊕\ d@
		Shartost	13.194" - 18.130	+80.0 -110.0		
1		Equal-life	38.484	+80.0 -110.0	SOOR SB 112" NOM.	EXTERIOR TIZ NOM.
	il	Custom Size	36,131 - 36,463	+80.0 -110.0	EXTERIOR GLASS BITE	EXTERIOR GLASS BITE
		Custom Size	34,131 - 35,130	+80.0 -110.0		
1	76"	Standard Provew	30.994 - 34.130	+80.0 -110.0 +80.0 -110.0	70-73	
1		Custom Size			GLASS TYPE 14	GLASS TYPE 15
ĺ		Custom Siza	28.131 - 30.130	+80.0 -110.0	- <u>PD499 1185 14</u>	OLAGO TIPE IS
	\vdash	Shortest	20.194" - 28.130 42.464	+80.0 -110.0		
1	B4*	Equal-lite Custom Sizo	38.131 - 42.483	+80.0 -110.0		
		CUSTOM SIZO	30.131 - 4∠483	1 -00.0 I -110.0		
ı] ~	Standard Proview	34,194* - 38,130	+80.0 -110.0		



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SH7700A

ONAL ENGIN

A LYNN MILLER, P.E.

P.E.# 58705

1) TIP TO TIP DIMENSIONS SHOWN, FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO "IP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

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4) WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF +65 PSF. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.

AN= ANNEALED TP= TEMPERED HS= HEAT STRENGTHENED

TAI	BLE 6:			_										_	_					_						_	_
1		or Quantities Re		ᆫ			_			-				Tipi	to T	ÞΥ		_	_					_	_		
1		ugh-Frame" in:		L	18"	_		25"	,_,	L	33*		L	37	_	Щ	41"		Щ	45		<u></u>	49		_	3-1/6	3"
L	LE	sing Glass Type	s 1-7		mb	1	护	mb		<u></u>	mb		_	œρ	l		mb	1	<u> — </u>	mb	١.,	-	nsb		┡	E C	ιl
1		Bettom Sash		Above MR	失	Header	垩	Below P.R	Header	Accre MR	5	Header	E.	Below IV.R	Header	분	Below I'R	teace	Above MR	Betow I/R	tagder.	Atove MR	Be'on I/R	Header	Atove MR	¥.	ষ্
		Description	Sash Height	<u>ş</u>	3		1	3	2	9	Below N.R	뢒	Abg/8	7	훈	8	ž	E E	2	ì	2	2	ارتجا	3	9	3	Asada Asada
1		for Given Range	Rango (In)	Ιŝ	Be.ow IVR	[-	Above MR	ě	-	¥	Ŋ.		Ę	ž	_	Above	Bek	_	Į§′	8	_	÷	e l	Ι.	ş	Berow	ı⁻ I
\vdash	24"	Equal-lite	12,464	1	2	1	1	2	1	1	2	1	1	2	2	1	2	2	1	2	2		2	2	1	2	2
1	H	Equalite	15,964	1	2	1	7	2	1	1	2	1	1	2	2	1	2	2	1	2	2	1	2	2		2	2
1	31"	Standard Proview	12,994 - 15,963	12	1 2	ŀΤ	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
1	•	Shortest	12,464 - 12,993	1 2	2	1	2	2	1	2	2	1	2	2	2	12	2	2	2	2	2	2	2	2	2	2	Z
1		Equal-lite	19.652	2	2	1	2	2	1	2	2	7	2	2	2	12	2	2	2	2	2	2	2	2	12	2	2
		Standard Proview	15,944 - 19,651	2	2	1	2	2	1	2	2	î	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	38-3/8"	Custom Size	15.131 - 15,943	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	Z	2	2	2	2	2	2
		Custom Size	14.131 - 15.130	2	2	1	2	2	1	2	2	1	2	2	2	2	2	\$	2	2	2	2	2	2	Ž	2	2
1	1 1	Shortest	12,464 - 14,130	2	3	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Equal-lita	22,984	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1 1	Custom Size	20.131 - 22.983	2	2	7	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1 1	Standard Proyow	18.594 - 20.130	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
i	45	Custom Size	76.131 - 18.593	2	2	1	2	2	1	2	2	4	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2
1	li	Custom Size	15,131 - 16.130	2	2	1	2	2	7	2	2	=	2	2	2	2	2	2	Z	2	2	2	2	2	2	2	2
1	li	Custom Size	14,131 - 15.130	2	2	1	2	2	1	2	2	۳	2	2	2	2	2	2	2	2	2	м	2	2	2	2	2
1	[Shortest	12.464 - 14.130	3	2	1	3	2	1	3	2	٢	3	2	2	3	2	2	3	2	2	3	2	2	ω	2	2
1	$\neg \neg$	Equal-lite	24.964	2	12	1	2	2	1	Z	2	1	2	N	2	2	2	N	2	2	2	2	2	2	2	2	2
1		Custom Size	22,131 - 24,953	2	2	1	2	2	1	2	2	7	2	2	2.	2	2	2	2	2	2	2	2	2	2	Ž	2
	l I	Standard Provide	20.194 - 22.130	2	2	1	2	2	1	2	2	1	2	2	N	2	2	2	2	2	2	ľ	2	2	2	2	2
	49"	Custom Size	18,131 - 20,193	2	2	1	2	2	1	2	2	-	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2
		Centern Size	16.131 - 18.130	3	2	1	[3	2	1	3	2	1	3	2	2	[3	2	2	3	2	2	3	2	2	3	2	2
		Custom Size	14.131 - 10.130	3	2	1	3	2	1	3	Ž	1	3	2	2	3	2	5	3	2	2	3	2	Z	3	2	2
12	,	Shortest	12,464 - 14,130	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2	3	2	2
Tip Height		Equal-lit e	25.777	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2
급		Ozstom Size	24.131 - 25.776	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
١٥		Standard Proviow	20.844 - 24.130	2	2	1	2	2	11	2	2	۳	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Įē	50-5/6*	Custom Size	20,131 - 20,843	2	2	1	2	2	1	2	2	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1-	3536	Custom Size	18 131 - 20.130	3	2	1	3	2	1	3	2	1	3	2	2	[3	2	2	3	2	2	3	2	2	u	2	2
1		Custom Size	16.131 - 18.130	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	٩	2	3	2	2	ω	Ν	2
		Custom Size	14,131 - 16,130	3	2	1	3	2	11	3	2	1	<u> 3</u>	2	2	3	2	2	3	2	2	3	2	2	6	2	2
		Shortost	12.464 - 14.130	3	2	1	3	2	1	3	2	1	3	2	2	<u> 3</u>	2	2	3	2	2	3	2	2	3	2	2
		Equal-lite	31,964	2	3	1	[2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2	2	3	2
1	1 !	Custom Sizo	28.131 - 31.963	3	3	1	3	3	1	3	3	7	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2
1		Standard Proview	25.794 - 28,130	3	2	1	3	2	[1]	3	2	۰-	3	N	2	3	2	2	3	2	2	3	2	2	3	3	2
	ا ا	Cintom Sizo	24,131 - 25,793	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	13	2	2	1	2	2	تار	~	2
ł	63*	Custom Size	22.131 - 24.130	3	2	1		2	11	3	2	1	3	2	2	3	2	_	3	2	2	3	2	Z	3	2	2
1		Custom Siza	20,131 - 22,130	3	2	1	13 14	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2	3	٠.	2
		Custom Sizo	18.131 - 20.130	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2	S S	2	2
		Custom Size	16,131 - 18,130	3	2	1	3	2	1	4	2	+	4	2	2	3	2	2	_		2	4			3	_	
1	\vdash	Shortest	13.194" - 16.130	4	2	1	3	3	H	3	3	7	3	3	2	3	3	2	4	2	_	3	3	2	3	3	2
		Equal-lito	38.464	3	3	1	3	3	1	3	3	1	3	3		13	3	2	3	3	2	3	-	2	_		2
		Custom Size	35,131 - 38,463	3	3	1	3	3	3	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2
		Custom Sizo	34.131 - 36.130	3	_	+	3	3	+	3	3	1	3	3	2	3	끍	2	3	3	-	3	3	2	3	3 1	2
1	76"	Standard Proview	30,994 - 34,130	3	3	Ľ.	3	3	1	3	3	+	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2
		Custom Size	30.131 - 30.993 28.131 - 30.130	3	3	1	3	3	1	3	3	+	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2
		Custom Size	28.131 - 39.130 26.194* - 28.130	_	2	-	4	2	÷	4	2	÷	4	2	2	3	2	2	4	2	2	4	2	<u> </u>	4	3	2
	 	Shortest		4	4	1	3	4	+	3	4	H	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2
	84"	Equal-lite Custom Size	42.464 35.131 - 42.463	3	4	1	3	4	H	3	4	+	3	4	2	3	4	2	3	4	2	3	4	-	3	2	2
	54			4	3	+	4	7	H	4	3	÷	4	3	2	4	3	2	9	3	2	4	3	2	4	3	2
	اسسا	Standard Proview	34, 194" - 30, 130	L <u>^</u>	٦	1	ـــــــــــــــــــــــــــــــــــــــ		ت	يت	۳.		۳.	Ľ	-		ائا	-		ت	ك	لت	ر د	~ !	,	٢	ك

-MINIMUM SASH HEIGHT FOR FLANGED WINDOWS IS: TIP TO TIP HEIGHT -49,391
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG WINDOWS IS: BUCK HEIGHT -48,391
MINIMUM SASH HEIGHT FOR FLANGED, RADIUS TOP WINDOWS IS: TIP TO TIP HEIGHT -49,806
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG, RADIUS TOP WINDOWS IS: BUCK HEIGHT -48,806

Glass Type	Description (Listed from Exterior to Interior)
1	1/8"AN, .090" PVB, 1/8" AN
2	13/16" LIG: 1/8" AN CAP, AIRSPACE, 1/8" AN, .090" PV8, 1/8" AN
3	13/16" LIG: 1/8" TP CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN
4	1/8" HS, .090" PVB, 1/8" HS
5	3/16" AN, .090" PVB, 3/16" AN
6	13/16" LIG: 3/16" AN CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN
7	13/16" LIG: 3/16" TP CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN

PRODUCT REVISED as complying with the Fiorida Building Code NOA-No. 20-0401.11 Expiration Date 08/23/2023

By Miami-Dado Product Control

A) NO CHANGES THIS SHEET.

JR - 03/11/20

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 (941) 480					.
1070 TECHNOLOGY DI N. VENICE, FL 34275 (941) 480-1600 1940-1600 1940	SIVE	/01/18	WSKI	ldot	
1070 TECHNOL N. VENICE, FL. (941) 480-1600 REGISTRATION 42256 ALUMINUM SINGLE HUNG INSTALL. (LM) SANCHOR QUANTITY TABLE SANT700A SANT700A SANT700A SANT700A SANT700A SANT700A SANT700A SANT700A	.OGY DI	<u>ana</u>	S ROSC	VOA-1	
1070 TE N. VENIG (941) 480 REGISTRATION #2256 REGISTRATION #2256 RAUMINUM SINGLE HUNG INSTALL. SE SH7700A SE SOF 11 SE	CHNOL SE, FL ((LM)	A JEN	l I	
REGISTRATION 42256 REGISTRATION 51NGLE HUNG INS REGISTRATION SINGLE HUNG	70 TE VENIC (1) 48(TALL.	J. 330	DINC.	
REGISTRATION \$2255 REGISTRATION \$2255 REGISTRATION SINGLE HUN SINGLANCHOR QUANTITY TAK SINGLANCHOR QUANTITY TAK SINGLANCHOR QUANTITY TAK	0 × ∞	IG INS	3.6	Ŧ	
REGISTRATION #222 REGISTRATION #222 REGISTRATION #222 RACHOR QUANTITION GENERAL SHATTOOA	[%	EHUN	IY TA!	50	
REGISTRATIA		SINGL	JANTI	१७७५५	
REGI PROCHI	STRAIK	NUM	OR OL	700A	
Series Dese Une		ALUMI	ANCH	SH7;	
		भाग	osa0	Series	

No. 55705

No. 55705

STATE OF

CORDA

A LYNN MILLER, P.E. P.E.# 58705

1) TIP TO TIP DIMENSIONS SHOWN, FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

3) FOR RADIUS TOP WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE RADIUS TOP WINDOW WILL COMPLETELY FIT WITHIN.

4) WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF +65 PSF. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.

TAD	LE 7:						_		_				_		_									_			
الم	Ancho	r Quantities Rec	uired for		_		_		_			_	_	<u> </u>	o Tu	_			_		_			_	P.		_
1	"Thro	ugh-Frame" Ins	tallation	_	18	\Box		25			33"	_		37	_		41"	_	Ļ.	45"	4		491	4	.tar	3-1/8	\Box
1	บร	ing Glass Types	8-15	Jor	_		JET .	_	1	Jan	_		חבל	_	.	Jor	_		Jar	-	ال	Jan	_	ال			
		Bottom Sash Description	Sash Height	Abore fAR	7 MR	Header	re CFR	w MR	teader	76 MR	Becoy MR	Header	Above h.R	뜇	teader.	Above MR	W W.R	Keader	ve MR	NA IAR	충	Abore AIR	Below MR	¥2.54	Above MR	Belon MR	Header
		for Given Range	Range (In)	\$	Be'on		Above	Be'o"	-	Above	番		å	Below	_	Abo	BEON		Above	BEOW		ž	e e			8	Ш
1	24"	Equal-lite	12.464	1	2	1	-	2		1	2	1	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
11		Equal-lite	15,964	1	2	1		2	븨	긔	2	1	1	2	2	1	2	2	1 2	2	2	2	2	3	2	2	2
1 1	31"	Standard Proviow	12.994 - 15.963	2	2	1	2	2	1	2	2	19	2	2	2	2	2	2	2	2	2	2	2	긜	2	2	2
11		Shortost	12,454 - 12,993	2	2	1	2	2	1	2	2	1	_	2		2	2	2	2	2	2	2	2	2	2	2	2
1		Equal-lite	19.652	2	2	1	2 2	2	1	2	2	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2
1	ļļ	Standard Proview	15,944 - 19,651	2	2	1	2	2	+	2	2	÷	2	2	2	2	2	2	2	2	2	F	2	2	1	2	2
	38-3/8"	Cuztom Size	15.131 - 15.943	2	2	1	2	2	1	Î	2	1	2	2	2	2	2	2	1	2	Ī	2	2	2	2	2	2
]	Custom Sizo	14,131 - 15,130	2	2	+	2	2	1	2	2	H	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1		Shortest	12.464 - 14,130 22.964	12	2	1	2	2	1	2	2	1	2	2	2	1 2	2	2	12	2	2	2	3	2	2	3	2
		Equal-lite	20.131 - 22.953	2	2	1	2	Ì	1	2	2	1	2	2	2	2	2	2	Ž	2	2	2	3	2	2	3	2
1		Custom Size	18.594 - 20.130	12	2	+	2	2	1	2	2	Н	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2
1		Standard Provow Custom Size	16,131 - 18,593	2	2	l i	2	2	1	1=	2	H	2	2	2	2	12	2	2	2	7	2	2	2	2	2	3
1 '	45"	Custom Size	15.131 - 16.130	1 2	12	t÷	1 2	2	1	1 =	2	7	2	2	2	2	12	2	2	2	2	2	2	2	2	2	3
1		Custom Size	14.131 - 15.130	1 2	2	1	2	1 2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	Z	2	3
		Shortest	12.484 - 14.130	13	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2	3	2	3
		Equal-lito	24.964	2	2	1	2	2	1	12	2	1	2	2	2	2	2	2	2	3	2	2	3	2	2	3	2
		Custom Size	22.131 - 24.963		2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	3	2	2	3	2	2	3	2
	1 !	Standard Proview	20.194 - 22.130	_	12	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	3	2	2	3	3
i i	49"	Custom Size	16 131 - 20.193	2	2	1	2	1 2	1	2	2	7	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
1	~	Cuptom Size	16,131 - 18,130	3	2	1	13	2	1	3	2	া	3	2	2	3	2	2	3	2	2	3	2	2	3	2	3
		Custom Sizo	14.131 - 16.130		2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	3	3	2	3
١.	'	Shortest	12,464 - 14,130		2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	3	3	2	3
形聲	-	Egual-lita	25.777	12	2	1	12	2	1	2	2	1	2	2	2	2	2	2	2	3	2	2	3	2	2	_	2
14	i I	Custom Sizo	24,131 - 25,776	2	2	1	12	2	1	2	2	1	2	2	2	2	2	2	2	3	2	2	3	2	2	3	2
ē	1	Standard Proviow	20,844 - 24,130	1 2	2	1	12	2	1	2	2	1	2	2	2	2	2	2	2	3	2	2	3	2	2	3	3
Total		Custom Size	20.131 - 20.843	2	2	1	2	2	1	2	2	1	2	2	2	[2	2	2	2	2	2	2	2	2	2	3	3
F	50-5/8*	Custom Size	18.131 - 20.130	3	2	7	3	2	1	3	2	1	3	2	Ž	[3	2	2	3	2	2	3	2	2	3	_	3
		Custom Size	16.131 - 18.130	3	2	17	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	3	3		3
		Oustom Size	14,131 - 16.130	3	12	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	3	3		3
1		Shortest	12.464 - 14.130	3) 2	1	3	12	11	3	2	1	3	2	2	3	2	2	3	12	2	3	2	3	13	_	3
		Equal-life	31,954	72	В	-	2	3	11	2	13	1	2	3	2	2	3	2	2	-	2	2		2	2	_	3
		Custom Size	28.131 - 31.963	_] 3		[3	3	1	3	3	11	3	3	2	3	3	2	3	13	2	-	3	3	3		3
		Standard Provew	25.794 - 28,130	-	2	_	3	2	_		2	1	3	2	2	3	13	2	13	-	2	-1	3	3	3		3
1		Custom Size	24,131 - 25.790	_	2	_	3	2		13	2	1	3	2 2	2	3	2	2 2	3	3	2	حاك		3	13		3
1	63"	Custom Size	Z2.131 - 24.130		2]3	Z		3	2	1	3	2 2	2	13	2	12/2	13	2	2			3	3		3
1	1	Custom Size	20.131 - 22.130	-			3	2		3	2	1	3	2 2	2	3	2	2	3	_	2			3	1 4	_	3
1		Custom Size	18.131 - 20.130		_		3	_		3	2	1	3	12	2	13	1 2	1 2	3	_	12	٠.	1	3	1	-	
	ł	Custom Size	16.131 - 18.130		_	_	13	_	-	4	2	1	13	12		حال		-	14		12		_	3	╁	_	
		Shortest	13.194" - 16.13		_		14/3	3	-	1 3	3	1	3	3		1 3	3	1 2	13	-	2			1 3	13		_
-	1	Equal-lao	38,464	3 3			تا	1		سال	3	1	3			3		1 2	13		12			3	سال	_	<u> </u>
	1	Custom Size	36.131 - 38.463	_		_	تا		_	_	3	+	 3	_	_	13	3	1 2	Ť	_	12			3	_		_
		Custom Size	30,994 - 34,130				13			-1-	3	Η÷	3			1 -			_	_	12		-	3		-	.
	75"	Standard Proviow	30,994 - 34,130	_		_	13			-ا	13	1	1 3				ᅳ	_	13	4	12	ت ال		3			_
	1	Custom Size	28,131 - 30,13				_		_			1	3					2	4	3	12	4	3	3	4	14	3
ĺ	1		26,194* - 28,13	_	_	_	خل	-		_		1	4	-		┈	_	1 2	4	3	12	4	3	3	4	3	13
1		Shortest Equal-lite	42 464	1 3	-		4		_	نجال	17	1	3	_			14	_	3	14	12			3	3	5	; 3
	84"	Custom Size	38.131 - 42.46	_	_	-	4-		_	_	4	1	3		-	٠.	4	2	3	4	2	4	4	3	1	5	13
	64	Standard Proview			-	-	_					17	4	3	-	٠.	13	2	14	4	2	4	4	3	4	4	3
		PIENDER PROMEN	104.154 - 30.13	<u>~1~</u>		<u>'</u> '					<u> </u>	101	_	. 40	_	-	_	_	_			_		_			_

-MINIMUM SASH HEIGHT FOR FLANGED WINDOWS IS: TIP TO TIP HEIGHT -49.391
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG WINDOWS IS: SUCK HEIGHT -48.391
MINIMUM SASH HEIGHT FOR FLANGED, RADIUS TOP WINDOWS IS: TIP TO TIP HEIGHT -49.806
MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG, RADIUS TOP WINDOWS IS: BUCK HEIGHT -48.806

Glass Type	Description (Listed from Exterior to Interior)
8	3/16" AN, .090" SG, 3/16" AN
9	3/16" HS, .090" SG, 3/16" HS
10	13/16" LIG: 1/8" AN CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS
11	13/16" LIG: 1/8" AN CAP, AIRSPACE, 3/16" AN, .090" SG, 3/16" AN
12	13/16" LIG: 1/8" TP CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS
13	13/16" LIG: 1/8" TP CAP, AIRSPACE, 3/16" AN, .090" SG, 3/16" AN
14	13/16" LIG: 3/16" AN CAP , AIRSPACE, 1/8" HS, .090" SG, 1/8" HS
15	13/16" LIG: 3/16" TP CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS

1) TIP TO TIP DIMENSIONS SHOWN, FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TASLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

3) FOR RADIUS TOP WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE RADIUS TOP WINDOW WILL COMPLETELY FIT WITHIN.

4) WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A MAXIMUM POSITIVE DESIGN PRESSURE OF +65 PSF. NEGATIVE DESIGN PRESSURES ARE UNAFFECTED.

PRODUCT REVISED as complying with the Florida Building Code 20-0401.11 Expiration Date 08/23/2023

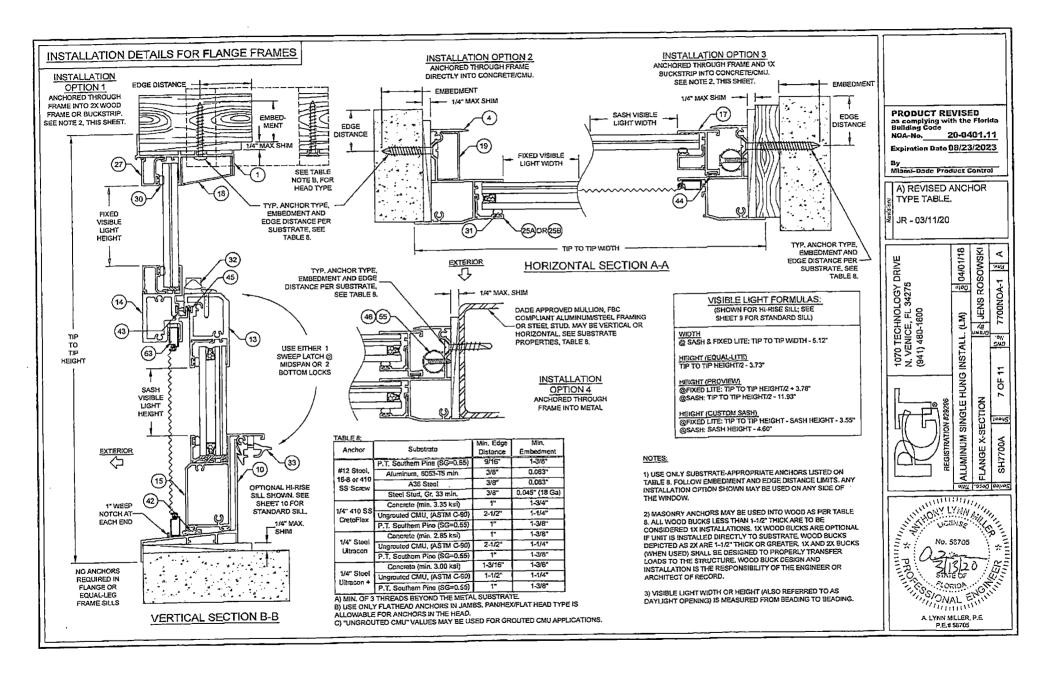
Miami-Dade Product Control

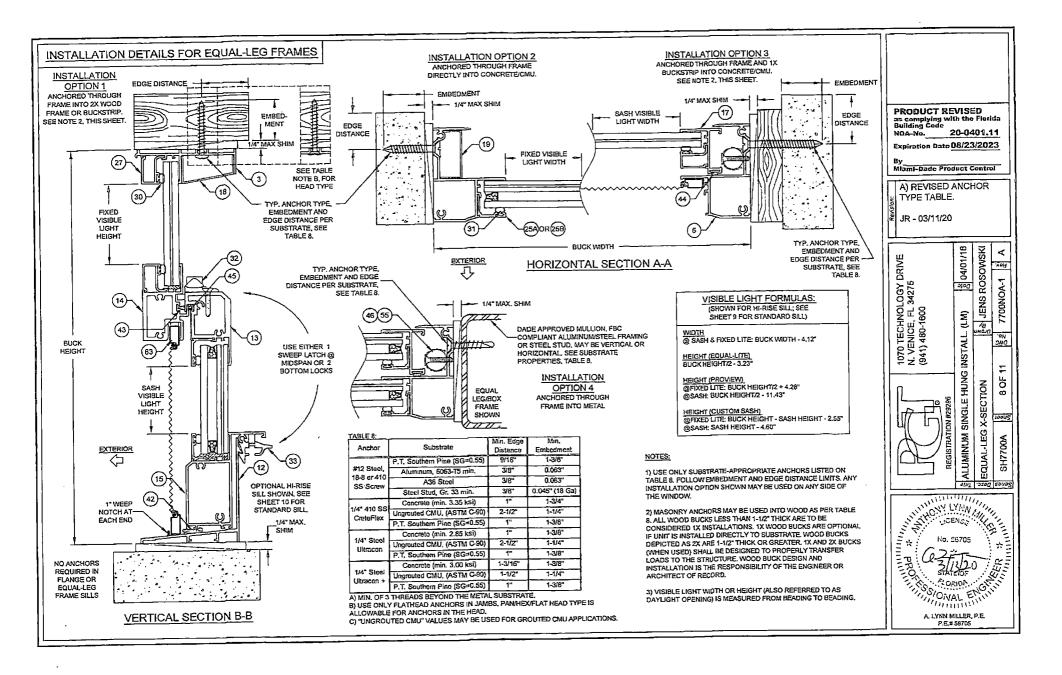
A) NO CHANGES THIS SHEET.

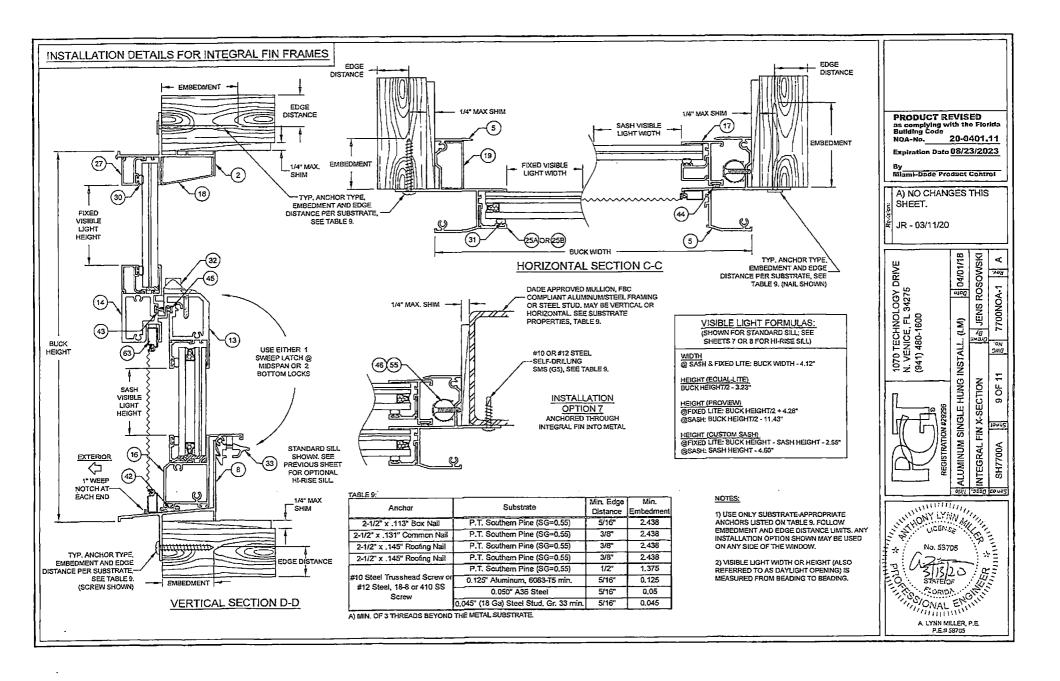
JR - 03/11/20

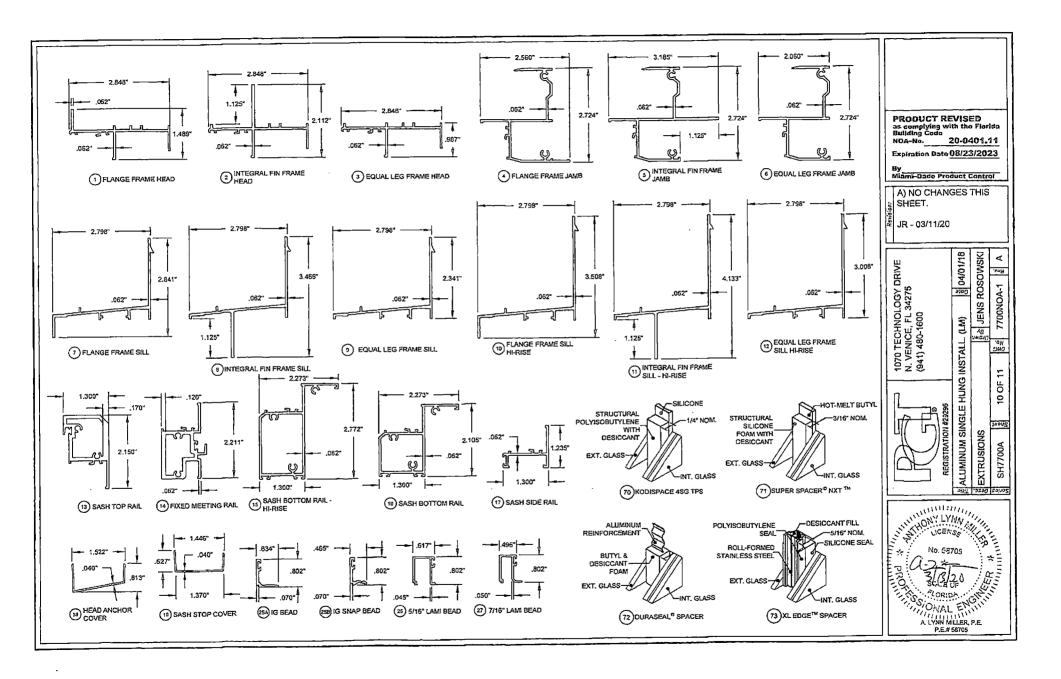
8 04/01/18 Ens ROSOWSKI 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 ⋖ NAR 7700NOA-1 RALUMINUM SINGLE HUNG INSTALL. (LM)
RANCHOR QUANTITY TABLE
RALUMINUM SINGLE HUNG INSTALL. (LM)
RALUMINUM SINGLE HUNG INSTALL. (LM)
RALUMINUM SINGLE HUNG INSTALL. (LM)



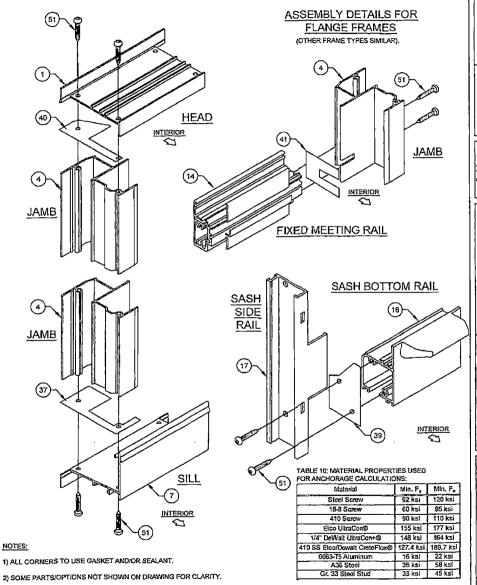








medi #	PGT Part#	Description	Material
1	642001	Head, Flange	Alum. 6063-76
2	624017	Head, Integral Fin	Alum. 6063-T6
3	624028	Head, Equal-leg	Alum. 6063-T6
4	624004	Jamb, Flange	Alum, 6063-T6
4A		Jamb, Flange (Used For Alternate Radius Top Head)	Alum. 6063-T52
5	624020	Jamb, Integral Fin	Alum. 6063-T6
5A		Jamb, Integral Fin (Used For Alternate Radius Top Head)	Alum. 6063-T52
6	624031	Jamb, Equal-leg	Alum. 6063-T6
6A		Jamb, Equal-leg (Used For Alternate Radius Top Head)	Alum. 6063-T52
7	624002	Sill, Flange	Alum. 6063-16
8	624018	Sill, Integral Fin	Alum. 6063-T6
9	624029	Sill, Equal-leg	Alum, 6063-76
10	624003	Sill, Hi-Rise, Flange	Alum. 6063-T6
11	624019	Sill, Hi-Rise, Integral Fin	Alum. 6063-T6
12	624030	Sill, Hi-Rise, Equal-leg	Alum, 6063-T6
13	624006	Sash Top Rail	Alum. 6005A-T6
14	624005	Fixed Meeting Rail	Alum. 6005A-T6
15	624012	Sash Bottom Rail - Hi-Rise	Alum. 6063-T6
16	624068	Sash Bottom Rail	Alum, 6063-T6
17	524007	Sash Side Rail	Alum. 6063-T6
18	524051	Head Anchor Cover	Alum. 6063-T6
19	624015	Sash Stop	Alum. 6063-T6
25A	624009	IG Bead	Alum, 6063-T5
25B	624011	IG Snap Bead	Alum, 6063-T5
26	624010	5/16" Lami Beading	Alum. 6063-76
27	624026	7/16" Lami Beading	Alum. 6063-76
30	6TP247	Glazing Bead, Bulb Vinyl for #624023	Vinyl
31	6TP248	Glazing Bead, Bulb Vinyl for #624009 & #624011	Vinyl
32	724046	Sweep Latch (@ Top Rail)	Cast Zinc
33	624049	Bottom Latch (@ Sill)	Alum. 6063-T6
34		Setting Black (1/8" X 1/2" X 4")	Neoprene
35A		IG Setting Block (1/8" X 3/4" X 4")	Neoprene
358	724014	IG Snap Setting Block	Vinyl
36	724044	Bottom Rail Weatherstrip Extension	
37	724053	Sill Gasket	Polyethylene
38	724054	Sash Top Rail Gasket	Polyethylene
39	724055	Sash Boltom Rail Gasket	Polyethylene
40	724057	Head Gasket	Polyethylene
41	724063	Meeting Rail Gasket	Polyethylene
42	61226D	Sash Bottom Rail Bulb Vinyl	Polyethylene
43		Weatherstrip, .270" x .187", Fin Seal (@ MR)	
44	67S16G	Weatherstrip 170" X 270". Fin Seal (@ Sash Side Rail)	
45		Weatherstrip, .170" X .187", Fin Seal (@ Top Sash Rail)	
46	varies	Balance with Cover & Trim	Rigid Vinyl
51	781PSQX	#8 X 1" PH SMS (Assembly)	Stainless Steel
55	7834AA	#8 X 3/4" Ph. PN SMS (Balance)	Stainless Steel
63		Alum. Screen with Fiberglass Mesh	Varies
70		Kommerling Kodispace 4SG TPS	See Sheet
71		Quanex Super Spacer nXT	See Sheet
72		Quanex Duraseal Spacer	10 for Materials
73		Cardinal XL Edge Spacer	iviaterials
74		Dow 791, 899, 983 or GE 7700 Backbedding	Silicone



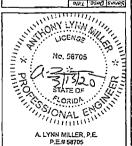
PRODUCT REVISED as complying with the Florida Building Gode
NOA-No. 20-0401.11

Expiration Date 08/23/2023

By Miami-Dade Product Control

A) ADDED BACKBEDDING, UPDATED MATERIAL PROP. TABLE.

JR - 03/11/20











Product Approval Menu > Product or Application Search > Application List > Application Detail

FL21135-R5 FL# Revision Application Type 2020 Code Version Application Status Approved

Comments

Archived

Product Manufacturer Address/Phone/Email Therma-Tru Corporation 1750 Indian Wood Circle Maumee, OH 43537 (800) 843-7628

sjasperson@thermatru.com

Authorized Signature

Vivian Wright

rickw@rwbldgconsultants.com

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Category

Subcategory

Exterior Doors

Swinging 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 Lyndon F. Schmidt, P.E.

Evaluation Report

Florida License

PE-43409

Quality Assurance Entity

National Accreditation and Management Institute

Quality Assurance Contract Expiration Date

12/31/2026

Validated By

Ryan J. King, P.E.

Validation Checklist - Hardcopy Received

Certificate of Independence

FL21135 R5 COI (j) Certificate of Independence.pdf

Referenced Standard and Year (of Standard) <u>Year</u> **Standard** 2002 ASTM E330 2000 ASTM E331 1994 TAS 202

Equivalence of Product Standards Certified By

Sections from the Code

Date Submitted Date Validated Date Pending FBC Approval Date Approved

07/12/2020 07/21/2020 07/25/2020 10/13/2020

FL #	Model, Number or Name	Description
21135.1	a. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
additional use limitat particulars. (For Bend requires the use of "2"	outside HVHZ: Yes No	Installation Instructions FL21135 R5 II (j) Inst 21135.1.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.1.pdf Created by Independent Third Party: Yes
21135.2	b. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
additional use limitat particulars. (For Ben- product approval req	outside HVHZ: Yes No	Installation Instructions FL21135 R5 II (j) Inst 21135.2.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.2.pdf Created by Independent Third Party: Yes
21135.3	c. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
Impact Resistant: Design Pressure: Other: See INST 21 additional use limitat particulars. (For Ben requires the use of ".	outside HVHZ: Yes No	
21135.4	d. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Impact Resistant: Design Pressure: Other: See INST 23 additional use limital particulars. (For Ben	outside HVHZ: Yes No	Installation Instructions FL21135 R5 II (j) Inst 21135.4.pdf Verified By: Lyndon F. Schmidt, P.E. P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.4.pdf Created by Independent Third Party: Yes
21135.5	e. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Glazed Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use Approved for use Impact Resistant: Design Pressure:	outside HVHZ: Yes : No	Installation Instructions FL21135 R5 II (j) Inst 21135.5.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports

FL21135 R5 AE (j) Eval 21135.5.pdf Other: See INST 21135.5 for Design Pressure Ratings, any additional use limitations, installation instructions and product Created by Independent Third Party: Yes particulars. (For Benchmark door panels, this product approval requires the use of "L" part numbers for these doors, which have been stained or painted within six months of installation.) Nominal 6'8 "Non-Impact" Glazed Wood Edge "Smooth f. Therma-Tru Benchmark Doors 21135.6 Surface" or "Wood Grain" Fiberglass Single Door with
Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations) **Installation Instructions** Limits of Use FL21135 R5 II (j) Inst 21135.6.pdf Approved for use in HVHZ: No Verified By: Lyndon F. Schmidt, P.E. 43409 Approved for use outside HVHZ: Yes Created by Independent Third Party: Yes Impact Resistant: No Design Pressure: N/A **Evaluation Reports** Other: See INST 21135.6 for Design Pressure Ratings, any FL21135 R5 AE (j) Eval 21135.6.pdf additional use limitations, installation instructions and product Created by Independent Third Party: Yes particulars. (For Benchmark Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.) Nominal 8'0 "Non-Impact" Glazed Wood Edge "Smooth g. Therma-Tru Benchmark Doors 21135.7 Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration) **Installation Instructions** Limits of Use FL21135 R5 II (j) Inst 21135.7.pdf Approved for use in HVHZ: No Verified By: Lyndon F. Schmidt, P.E. 43409 Approved for use outside HVHZ: Yes Created by Independent Third Party: Yes Impact Resistant: No **Evaluation Reports** Design Pressure: N/A FL21135 R5 AE (j) Eval 21135.7 pdf Other: See INST 21135.7 for Design Pressure Ratings, any Created by Independent Third Party: Yes additional use limitations, installation instructions and product particulars. (For Benchmark Door panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.) Nominal 8'0 "Non-Impact" Glazed Wood Edge "Smooth h, Therma-Tru Benchmark Doors 21135.8 Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations) **Installation Instructions** Limits of Use Approved for use in HVHZ: No FL21135 R5 II (j) Inst 21135.8.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Approved for use outside HVHZ: Yes Created by Independent Third Party: Yes Impact Resistant: No **Evaluation Reports** Design Pressure: N/A FL21135 R5 AE (j) Eval 21135.8.pdf Other: See INST 21135.8 for Design Pressure Ratings, any Created by Independent Third Party: Yes additional use limitations, installation instructions and product particulars. (For Benchmark Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.) Nominal 6'8 "Non-Impact" Opaque Wood Edge Fiberglass Door i Therma-Tru Benchmark Doors 21135.9 Panels with Vented Sidelite(s) (Inswing; XX, XXX or XXXX configurations) Installation Instructions Limits of Use FL21135 R5 II (j) Inst 21135.9.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Created by Independent Third Party: Yes Impact Resistant: No Design Pressure: N/A **Evaluation Reports** FL21135 R5 AE (j) Eval 21135.9.pdf Other: See INST 21135.9 for Design Pressure Ratings, any additional use limitations, installation instructions and product Created by Independent Third Party: Yes particulars. (For Benchmark Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.) Nominal 6'8 "Non-Impact" Opaque Composite Edge "Smooth j. Therma-Tru Benchmark Doors 21135.10 Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration) Installation Instructions Limits of Use FL21135 R5 II (j) Inst 21135.10.pdf Approved for use in HVHZ: No Verified By: Lyndon F. Schmidt, P.E. 43409 Approved for use outside HVHZ: Yes Created by Independent Third Party: Yes Impact Resistant: No **Evaluation Reports** Design Pressure: N/A FL21135 R5 AE (j) Eval 21135.10.pdf Other: See INST 21135,10 for Design Pressure Ratings, any additional use limitations, installation instructions and product Created by Independent Third Party: Yes particulars. (For Benchmark Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)

	k. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Impact Resistant Design Pressure: Other: See INST 2 additional use limita particulars. (For Ber	outside HVHŽ: Yes : No	Installation Instructions FL21135 R5 II (j) Inst 21135.11.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.11.pdf Created by Independent Third Party: Yes
21135.12	I. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
Impact Resistant Design Pressure: Other: See INST 2 additional use limite particulars. (For Bei	outside HVHZ: Yes :: No	Installation Instructions F121135 R5 II (j) Inst 21135.12.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports F121135 R5 AE (j) Eval 21135.12.pdf Created by Independent Third Party: Yes
21135.13	m. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Approved for use		FL21135 R5 II (j) Inst 21135.13.pdf
Impact Resistant Design Pressure: Other: See INST 2 additional use limita particulars. (For Bei		Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.13.pdf Created by Independent Third Party: Yes
Impact Resistant Design Pressure: Other: See INST 2 additional use limits particulars. (For Bel product approval re doors, which have t	:: No N/A 1.135.13 for Design Pressure Ratings, any ations, installation instructions and product nchmark Door and Sidelite panels, this guires the use of "!" part numbers for these	Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j) Eval 21135.13.pdf
Impact Resistant Design Pressure: Other: See INST 2 additional use limits particulars. (For Be product approval re doors, which have t installation.) 21135.14 Limits of Use Approved for use Approved for use Impact Resistant Design Pressure: Other: See INST 2 additional use limits particulars. (For Be	:: No N/A 1135.13 for Design Pressure Ratings, any ations, installation instructions and product enchmark Door and Sidelite panels, this quires the use of "J" part numbers for these been stained or painted within six months of n. Therma-Tru Benchmark Doors in HVHZ: No coutside HVHZ: Yes	Created by Independent Third Party: Yes Evaluation Reports FL21135.R5 AE (j) Eval 21135.13.pdf Created by Independent Third Party: Yes Nominal 6'8 "Non-Impact" Glazed Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door
Impact Resistant Design Pressure: Other: See INST 2 additional use limits particulars. (For Be product approval re doors, which have t installation.) 21135.14 Limits of Use Approved for use Approved for use Impact Resistant Design Pressure: Other: See INST 2 additional use limits particulars. (For Be product approval re doors, which have to	:: No N/A 1135.13 for Design Pressure Ratings, any ations, installation instructions and product inchmark Door and Sidelite panels, this quires the use of "J" part numbers for these been stained or painted within six months of n. Therma-Tru Benchmark Doors in HVHZ: No coutside HVHZ: Yes IN/A 1135.14 for Design Pressure Ratings, any ations, installation instructions and product inchmark Door and Sidelite panels, this guires the use of "J" part numbers for these	Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.13.pdf Created by Independent Third Party: Yes Nominal 6'8 "Non-Impact" Glazed Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration) Installation Instructions FL21135 R5 II (j) Inst 21135.14.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.14.pdf
Impact Resistant Design Pressure: Other: See INST 2 additional use limits particulars. (For Be product approval re doors, which have t installation.) 21135.14 Limits of Use Approved for use Approved for use Impact Resistant Design Pressure: Other: See INST 2 additional use limits particulars. (For Be product approval re doors, which have t installation.) 21135.15 Limits of Use Approved for use Approved for use Impact Resistant Design Pressure: Other: See INST 2 additional use limits particulars. (For Be product approved for use Impact Resistant Design Pressure: Other: See INST 2 additional use limits product approved for use product approved for use	:: No N/A 1135.13 for Design Pressure Ratings, any ations, installation instructions and product inchmark Door and Sidelite panels, this quires the use of "J" part numbers for these been stained or painted within six months of n. Therma-Tru Benchmark Doors in HVHZ: No coutside HVHZ: Yes No N/A 1135.14 for Design Pressure Ratings, any ations, installation instructions and product inchmark Door and Sidelite panels, this couter the use of "J" part numbers for these been stained or painted within six months of o. Therma-Tru Benchmark Doors in HVHZ: No coutside HVHZ: Yes in HVHZ: No coutside HVHZ: Yes in No	Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.13.pdf Created by Independent Third Party: Yes Nominal 6'8 "Non-Impact" Glazed Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration) Installation Instructions FL21135 R5 II (j) Inst 21135.14.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.14.pdf Created by Independent Third Party: Yes Nominal 6'8 "Non-Impact" Glazed Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with

Installation Instructions Limits of Use FL21135 R5 II (j) Inst 21135,16.pdf Approved for use in HVHZ: No Verified By: Lyndon F. Schmidt, P.E. 43409 Approved for use outside HVHZ: Yes Created by Independent Third Party: Yes Impact Resistant: No **Evaluation Reports** Design Pressure: N/A FL21135 R5 AE (j) Eval 21135.16.pdf Other: See INST 21135.16 for Design Pressure Ratings, any additional use limitations, installation instructions and product Created by Independent Third Party: Yes particulars. (For Benchmark Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.) Nominal 8'0 "Non-Impact" Glazed Composite Edge "Smooth g. Therma-Tru Benchmark Doors 21135.17 Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations) Installation Instructions Limits of Use FL21135 R5 II (j) Inst 21135.17.pdf Approved for use in HVHZ: No Verified By: Lyndon F. Schmidt, P.E. 43409 Approved for use outside HVHZ: Yes Created by Independent Third Party: Yes Impact Resistant: No **Evaluation Reports** Design Pressure: N/A FL21135 R5 AE (j) Eval 21135.17.pdf Other: See INST 21135.17 for Design Pressure Ratings, any Created by Independent Third Party: Yes additional use limitations, installation instructions and product particulars. (For Benchmark Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.) Nominal 6'8 "Non-Impact" Opaque Composite Edge Fiberglass r. Therma-Tru Benchmark Doors 21135.18 Door Panels with Vented Sidelite(s) (Inswing; XX, XXX or XXXX configurations) **Installation Instructions** Limits of Use FL21135 R5 II (j) Inst 21135.18.pdf Approved for use in HVHZ: No Verified By: Lyndon F. Schmidt, P.E. 43409 Approved for use outside HVHZ: Yes Created by Independent Third Party: Yes Impact Resistant: No **Evaluation Reports** Design Pressure: N/A FL21135 R5 AE (j) Eval 21135.18.pdf Other: See INST 21135.18 for Design Pressure Ratings, any additional use limitations, installation instructions and product Created by Independent Third Party: Yes particulars. (For Benchmark Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)

Back Next

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

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Product Approval Accepts:

Credit Card



THERMA TRU. Benchmark. Doors

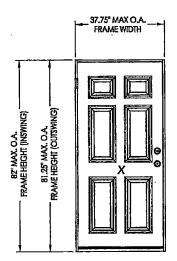
WOOD EDGE OPAQUE FIBERGLASS SINGLE DOOR

INSWING/OUTSWING
"NON-IMPACT"

GENERAL NOTES

- This product has been evaluated and is in compliance with the 7th Edition (2020)
 Florida Building Code (FBC) structural requirements excluding the "High Velocity
 Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
- Benchmark Door panels require the use of "J" part numbers and must be stained or pointed within six months of installation.

TABLE OF CONTENTS					
SHEET#	DESCRIPTION				
1	Typical Elevations, Design Pressures & General Notes				
2	Door Panel Details				
3	Elevations				
4	Horizonfal & Vertical Cross Sections (2X Buck)				
5	Horizontal & Vertical Cross Sections (1X Buck)				
6	Horizontal & Vertical Cross Sections (Direct to Masonry)				
7	Vertical Cross Sections (Thresholds)				
8	Buck & Frame Anchoring				
9	Hardware Details				
10					
11	Bill of Materials				

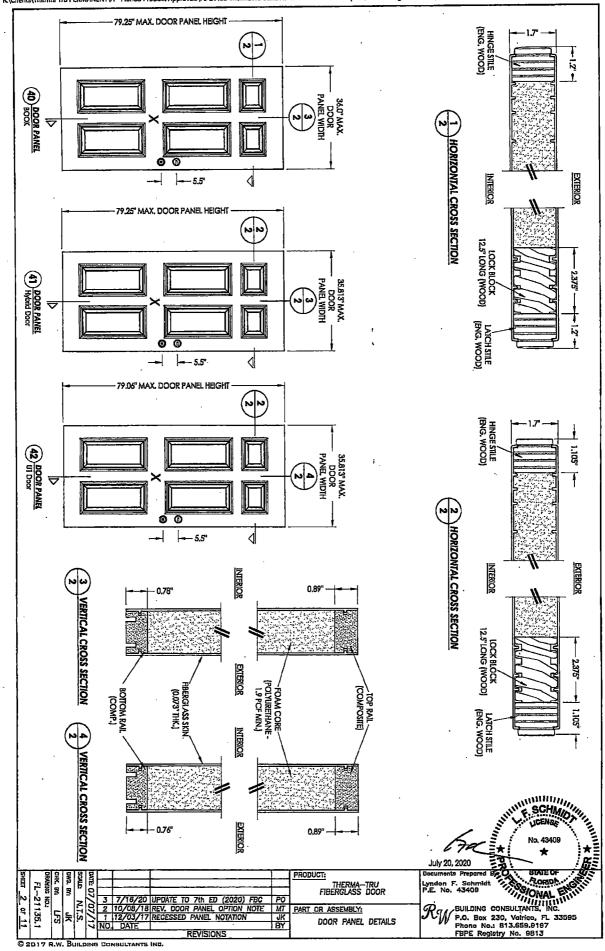


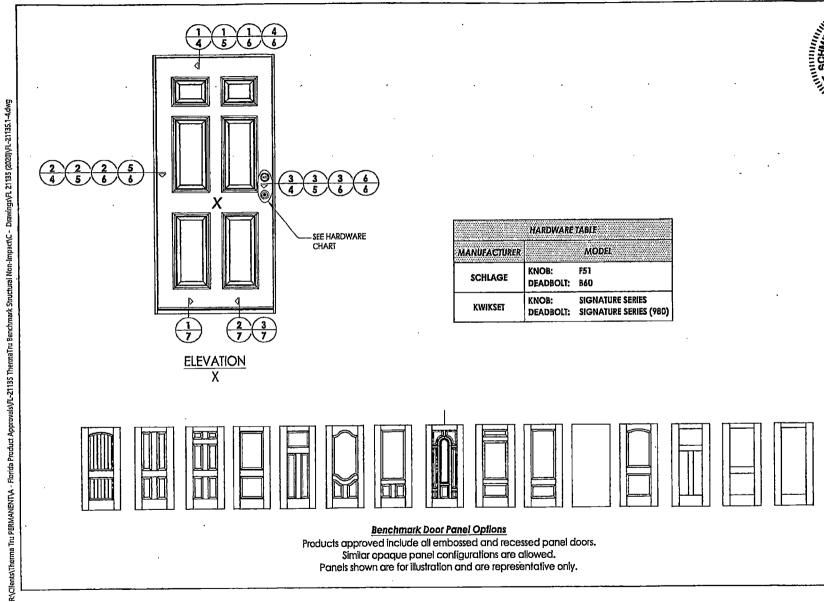
CONFIGURATION	LOCK	DESIGN PRI	SSURE (PSF) VING		SSURE (PSF) WING
	HARDWARE	POSITIVE NEGATIVE		POSITIVE	NEGATIVE
Х	Laich & Deadboll	+67.0	-67.0	+67.0	-67.0

See Sheet 3 for Hardware Specifications

	Documents Prepared By O SIAN	Lyndon F. Schmidt	P.E. No. 43409		BUILDING CONSULTANTS.			FBPE Registry No. 9813	
	PRODUCT	THERMA-TRU	FIBERGLASS DOOR		PART OR ASSEMBLY:	NOTION BY ENGLISH DESIGN	DECCHEC & CENERAL NOTES	בייבים מי פבורבות ווסוב	
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				7/16/20 UPDATE TO 7th ED (2020) FBC	10/08/18 REV. DOOR PANEL OPTION NOTE	12/03/17 RECESSED PANEL NOTATION		REVISIONS	2017 Я.М. Виісоіно Самвистанто Іме.
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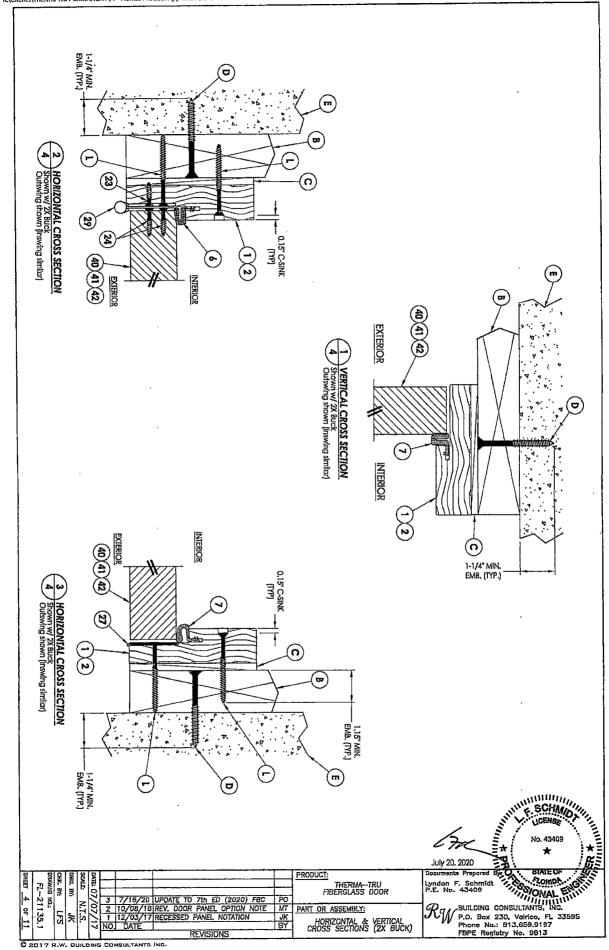


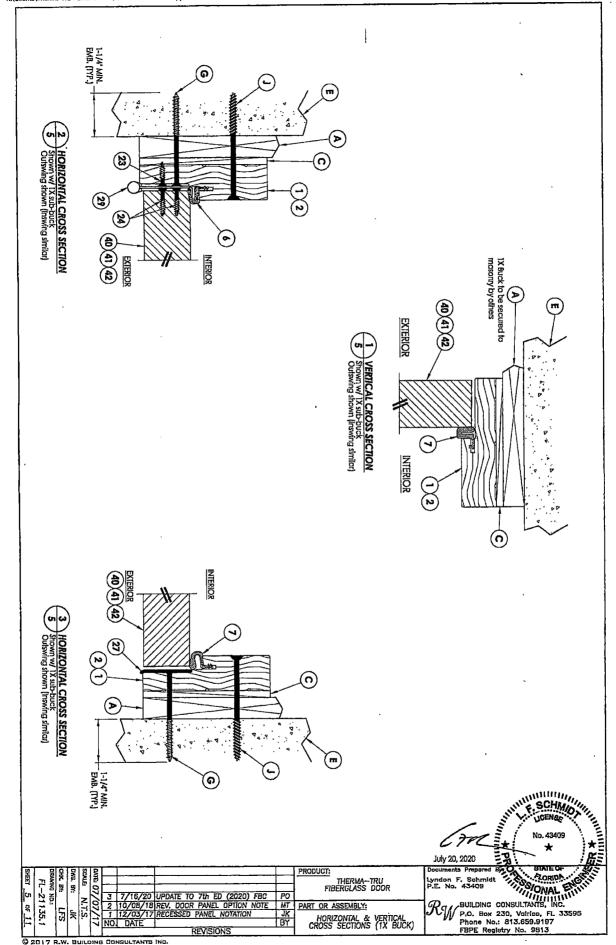


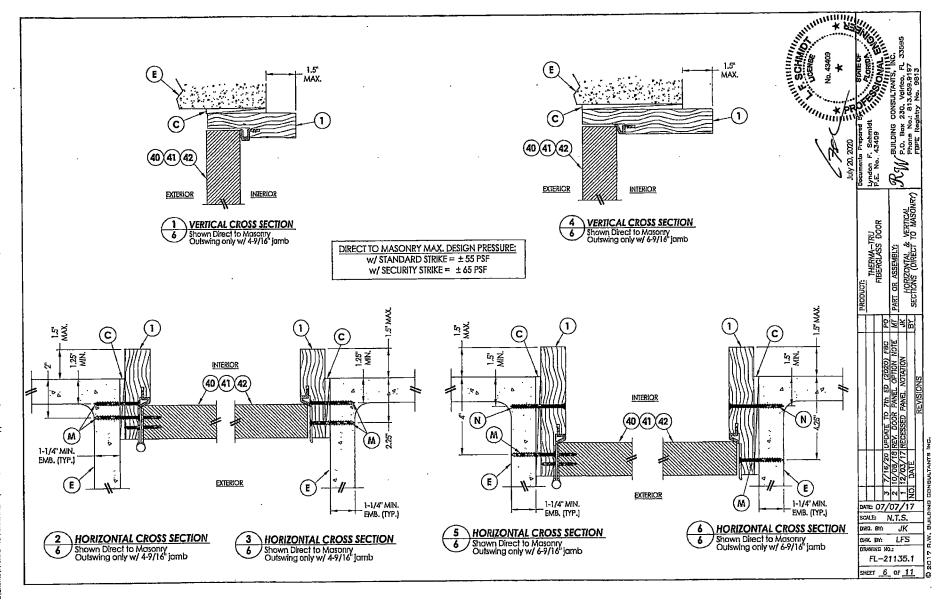
Benchmark Door Panel Options

Products approved include all embossed and recessed panel doors.
Similar opaque panel configurations are allowed.
Panels shown are for illustration and are representative only.

DATE: 07/07/17 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-21135.1 SHEET 3 OF 11



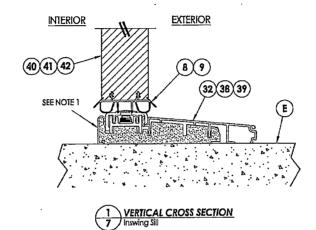


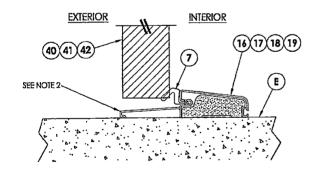


chmark Structural Non-Impact\C - Drawings\Ft. 21135 (2020)\Ft-21135.1-4.dwg

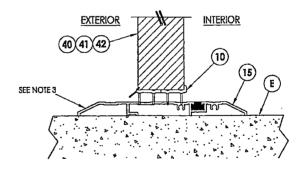
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- 1. Sill them #'s 32, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2' pih screws or (3) 2.5' staples at each end.
 2. Sill them #'s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2' pih screws at each end.
 3. Sill them #15 is attached to jambs utilizing (2) #10 X 2' pph SMS screws at each end.





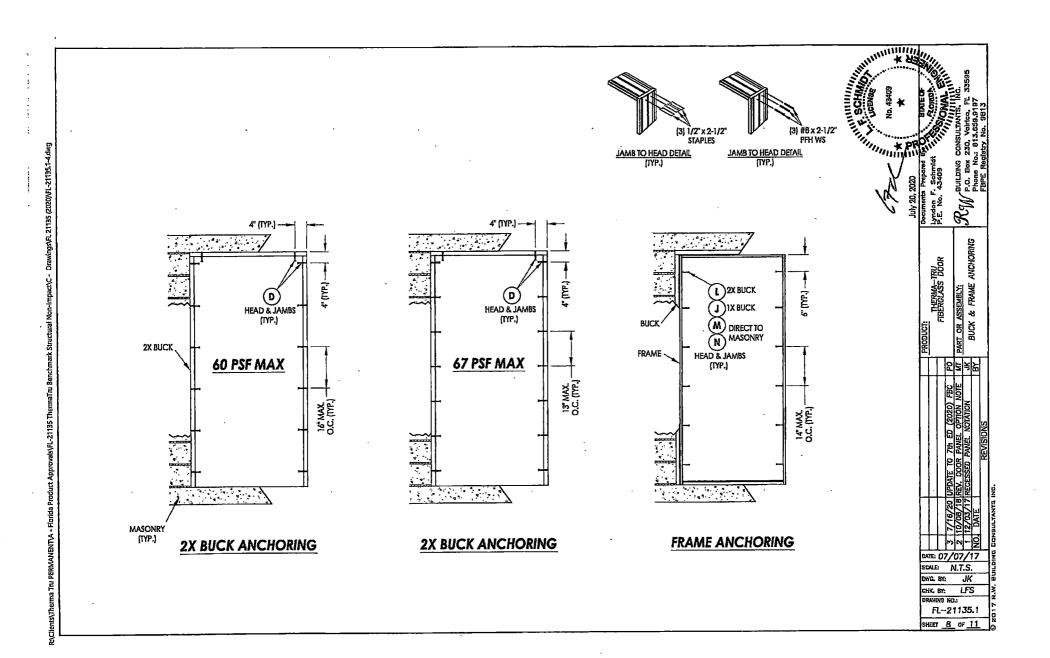


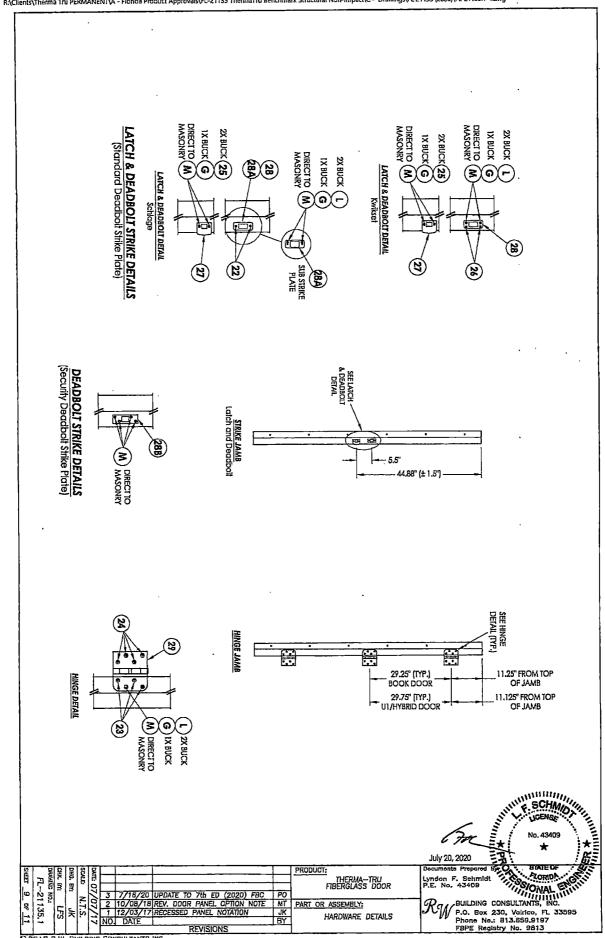


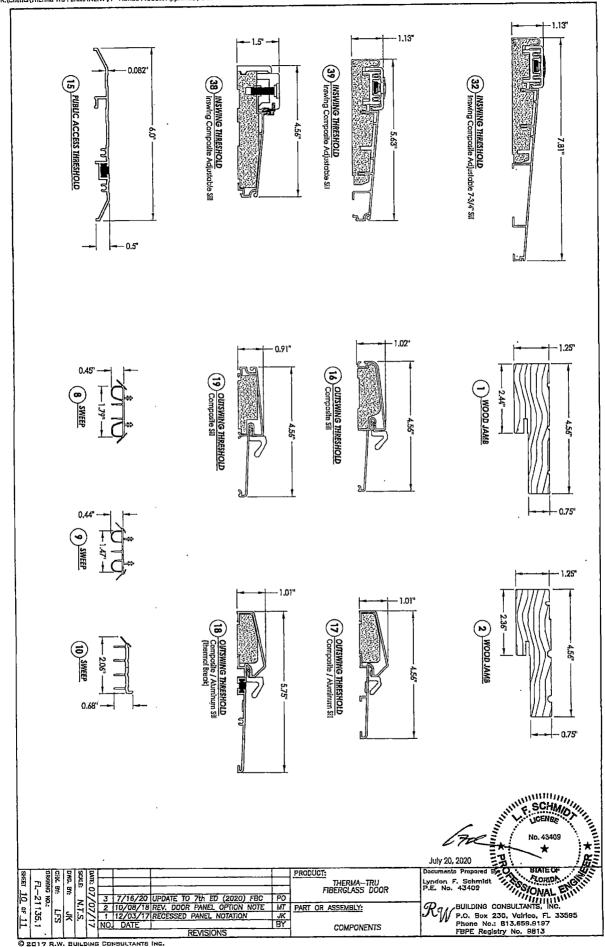


SCALE: N.T.S. DWG. BY: JK LFS CHK. BY: RAWING NO.

FL-21135.1 SHEET 7 OF 11







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#10 x 1" PFH WOOD SCREW

	BILL OF MATERIALS			
TEM #	DESCRIPTION	MATERIAL	ПЕМ #	DESCRIPTION
A	1X BUCK (SG >= 0.42)	WOOD	25_	#8 x 2-1/2"
В	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" Pf
C	1/4" MAX. SHIM SPACE		27	LATCH STRI
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT
	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI	CONCRETE	28A	DEADBOLT
Ë	301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCREIL	28B	DEADBOLT
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL .	29	4" X 4" HING
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	_ 32	INSWING T
<u> </u>	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	. 38	INSWING T
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	39	INSWING T
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	40	DOOR PAN
1	JAMB (FINGER JOINT PINE)	WOOD	41	DOOR PAN
2	JAMB (FINGER JOINT PINE)	WOOD	42	DOOR PAN
6	WEATHERSTRIP (MEDIUM REACH)	FOAM		
7	WEATHERSTRIP (LONG REACH)	FOAM_		
8	SWEEP	VINYL		
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL		
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL		
15	PUBLIC ACCESS THRESHOLD	ALUM]	
16	OUTSWING THRESHOLD	ALUM/COMP]	
17	OUTSWING THRESHOLD	ALUM/COMP	}	
18	OUTSWING THRESHOLD	ALUM/COMP		
19	OUTSWING THRESHOLD	ALUM/COMP		
22	#8 x 3/4" PFH WOOD SCREW	STEEL]	
23	#10 x 3/4" PFH WOOD SCREW	STEEL]	
	The state of the second	CTEC	l	

STEEL

BILL OF MATERIALS					
ПЕМ #	DESCRIPTION	MATERIAL			
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL			
26	#8 x 5/8" PFH WOOD SCREW	STEEL			
27	LATCH STRIKE PLATE	STEEL			
28	DEADBOLT STRIKE PLATE (STANDARD)	STEEL			
28A	DEADBOLT SUB STRIKE PLATE	STEEL			
28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL			
29	4" X 4" HINGE	STEEL			
32	INSWING THRESHOLD	ALUM/COMP			
. 38	INSWING THRESHOLD	ALUM/COMP			
39	INSWING THRESHOLD	ALUM/COMP			
40	DOOR PANEL (BOOK)				
41	DOOR PANEL (HYBRID)	-			
42	DOOR PANEL (U1)				
	•				

CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the comers may be adjusted to maintain the min. edge distance to mortar joints.

2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.

3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN CLEARANCE TO MASONRY EDGE	MIN, CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON [©]	1/4"	1-1/4"	l _u	4 "
1TW SAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

			REVISIONS		_	_
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2. 2.	SINT OF MATERIALS	녹	1 12/03/17 RECESSED PANEL NOTATION	.5	JK	35
Ing//D	PART OR ASSEMBLY:	M	T : T O 2 10/08/18/REV. DOOR PANEL OPTION NOTE	i.T	_	
		od i	3 7/16/20 UPDATE TO 7th ED (2020) FBC	1	_	NO 2
P.E. No. 43	FIBERGLASS DOOR	L	ſ			BY:
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R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry P.O. Box 230 Valrico, FL 33595 Phone 813.659.9197

Florida Board of Professional Engineers Registry License No. 9813

Product Evaluation Report

Report No.: FL-21135.1
... Date: July 20, 2020.

Product Category	Sub Category	Manufacturer	Product Name
Exterior Doors	Swinging Exterior Door Assemblies	Therma Tru Corporation 118 Industrial Drive Edgerton, OH 43517 Phone 419.298.1740	ThermaTru Benchmark Doors "Smooth Surface" and "Wood Grain" Fiberglass Door "Non-Impact" Inswing/Outswing

Scope:

This is a Product Evaluation report issued by R W Building Consultants, Inc. and Lyndon F. Schmidt, P.E. for Therma Tru Corporation based on Rule Chapter No. 61G20-3, Method 1D of the State of Florida Product Approval, Department of Business & Professional Regulation.

RW Building Consultants and Lyndon F. Schmidt, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

Limitations:

- 1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- 2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stude.
- 3. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- 4. Site conditions that deviate from the details of drawing FL-21135.1 require further engineering analysis by a licensed engineer or registered architect.
- 5. Benchmark Door panels require the use of "J" part numbers and must be stained or painted within six months of installation.
- 6. See drawing FL-21135.1 for size and design pressure limitations.

Supporting Documents:

 1. Test Report No.
 Test Standard

 ETC 01-741-10702.0
 TAS 202 (94)

 TEL 01460145
 ASTM E330 (02)

 TEL 01461612
 ASTM E330 (02) / E331 (00)

2. <u>Drawing No.</u>
No. FL-21135.1 Prepared by
RW Building Consultants, Inc. (# 9813)

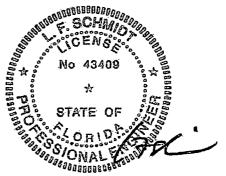
3. <u>Calculations.</u> <u>Prepared by</u>
Anchoring RW Building Consultants, Inc. (# 9813)

 Quality Assurance
 Certificate of Participation Issued by National Accreditation and Management Institute, certifying that Therma Tru Corporation is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53.
 Testing Laboratory Signed by

ETC Laboratories Wendell W. Haney, P.E.
Testing Evaluation Lab.,Inc.
Testing Evaluation Lab.,Inc.

Signed & Sealed by
Lyndon F. Schmidt, P.E.
Signed & Sealed by

Lyndon F. Schmidt, P.E.



Lyndon F. Schmidt, P.E. FL PE No. 43409 7/20/2020