

As required by Florida Statute 553.842 and Florida Administrative Code 9B-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](http://www.floridabuilding.org)

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING	Therma-Tru	Therma-Tru Benchmark Doors	21135.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE/DOUBLE HUNG	PGT INDUSTRIES	SKISSOO IMPACT	239.2
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING	MID FL. METAL	29ga MR PANEL	31397.1
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES			
B. NON-STRUCTURAL METAL	MID FL. METAL	29ga MULTI-RIB STRUCTURAL	23490.1
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
<b>5. STRUCTURAL COMPONENTS</b>			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
<b>6. NEW EXTERIOR ENVELOPE PRODUCTS</b>			

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.

Kent Bonner  
Contractor OR Agent Signature

10/12/23  
Date

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Product Approval**  
 USER: Public User

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



FL #	FL23490-R3						
Application Type	Revision						
Code Version	2020						
Application Status	Approved						
Comments							
Archived	<input type="checkbox"/>						
Product Manufacturer	Mid Florida Metal Roofing Supply/Supplies, Inc.						
Address/Phone/Email	28328 County Road 561 Tavares, FL 32778 (352) 742-7070 amyprince@mfmrs.com						
Authorized Signature	Amy Prince amyprince@mfmrs.com						
Technical Representative							
Address/Phone/Email							
Quality Assurance Representative							
Address/Phone/Email							
Category	Structural Components						
Subcategory	Roof Deck						
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received						
Florida Engineer or Architect Name who developed the Evaluation Report	Johnathan E. Green, P.E.						
Florida License	PE-88223						
Quality Assurance Entity	Keystone Certifications, Inc.						
Quality Assurance Contract Expiration Date	02/10/2026						
Validated By	Steven M. Urich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received						
Certificate of Independence	<a href="#">FL23490_R3_COI_Letter of Certification-Mid florida_sealed.pdf</a>						
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b>Standard</b></th> <th><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>ASTM E1592</td> <td>2012</td> </tr> <tr> <td>FM 4471</td> <td>1992</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	ASTM E1592	2012	FM 4471	1992
<b>Standard</b>	<b>Year</b>						
ASTM E1592	2012						
FM 4471	1992						
Equivalence of Product Standards Certified By							
Sections from the Code							
Product Approval Method	Method 1 Option D						

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

**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
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-105.0 <b>Other:</b>		<b>Installation Instructions</b> <a href="#">FL23490_R3_II_23490_29_Ga._MFMRS_Multi-Rib_Structural_Roof-sealed.pdf</a> Verified By: Johnathan E. Green, P.E. 88223 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL23490_R3_AE_23490_29_Ga._MFMRS_Multi-Rib_Structural_Roof-sealed.pdf</a> Created by Independent Third Party: Yes

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**Force Engineering & Testing**  
 19530 Ramblewood Drive  
 Humble, Texas 77338  
 Phone: (281) 540-6603, Fax: (281) 540-9966  
 Website: forceengineeringtesting.com

**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

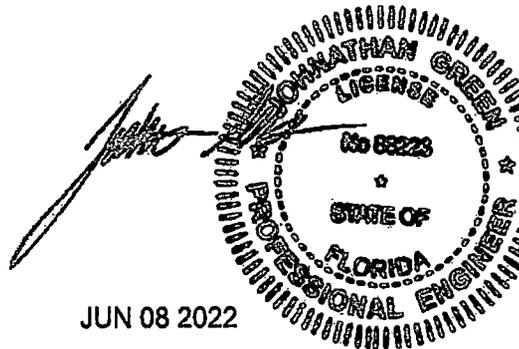
**Category: Structural Components**  
**Subcategory: Roof Deck**  
**Compliance Method: 61G20-3.005(1)(d)**  
**NON HVHZ**

**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

**Validator:**  
 Steven Urich, P.E. #57795

**Contents:**  
 Evaluation Report      Pages 1 – 5



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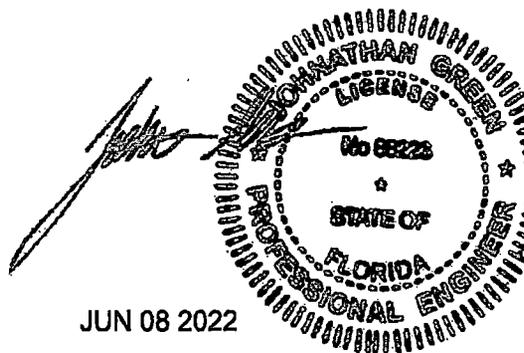
**Force Engineering & Testing**  
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 Humble, Texas 77338  
 Phone: (281) 540-6603, Fax: (281) 540-9966  
 Website: forceengineeringtesting.com

- 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: 3/8" major rib at 9" O.C.
- Panel Fastener:** #12-8 x 1" HWH Woodgrip XG w/ 1/2" EPDM washing or approved equal.  
 1/4-14 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"

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



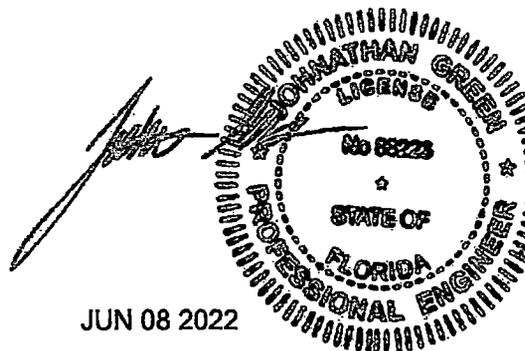
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Website: forceengineeringtesting.com

- 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
  2. 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.



JUN 08 2022

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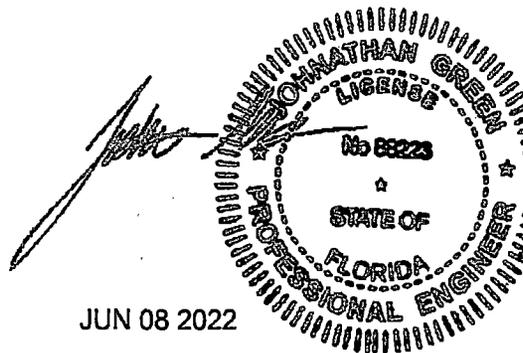
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FL# 23490.1 R3



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- 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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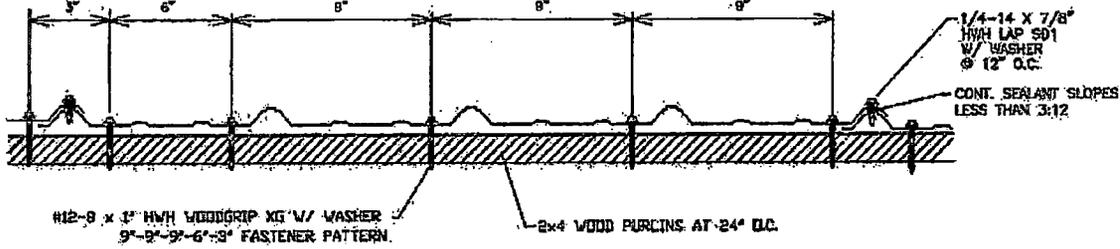
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FL# 23490.1 R3

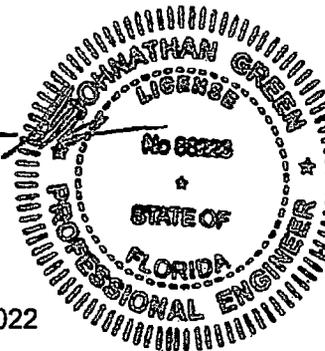
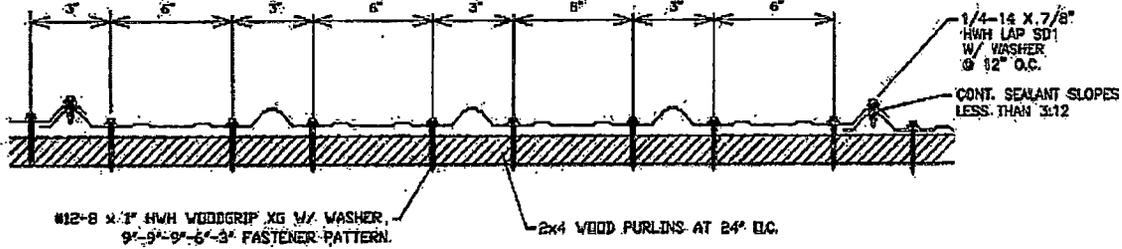


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**PANEL FASTENER PATTERN AT INTERIOR**



**PANEL FASTENER PATTERN AT PANEL ENDS/END LAPS**



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**Product Approval**  
USER: Public User

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



FL #	FL31397-R1
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Mid Florida Metal Roofing Supply/Supplies, Inc.
Address/Phone/Email	28328 County Road 561 Tavares, FL 32778 (352) 742-7070 amyprince@mfmrs.com
Authorized Signature	Amy Prince amyprince@mfmrs.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Structural Components
Subcategory	Structural Wall
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Johnathan E. Green, P.E.
Florida License	PE-88223
Quality Assurance Entity	Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date	02/10/2026
Validated By	Brian Jaks, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	<a href="#">FL31397_R1_COI_Letter of Certification-Mid Florida Metal Roofing Supply, Inc. sealed.pdf</a>
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1709.2
Product Approval Method	Method 2 Option B

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

**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
<b>Limits of Use</b> Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +140/-140 Other: See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL31397_R1_II_FL31397.1_29ga_MFMRS_Multi-Rib_Wall_Panel_sealed.pdf</a> Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL31397_R1_AE_FL31397.1_29ga_MFMRS_Multi-Rib_Wall_Panel_sealed.pdf</a> Created by Independent Third Party: Yes

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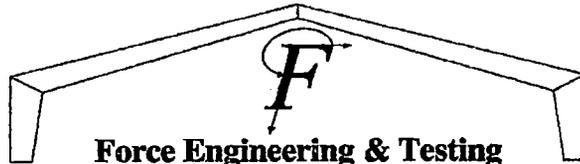
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**Product Approval Accepts:**



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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

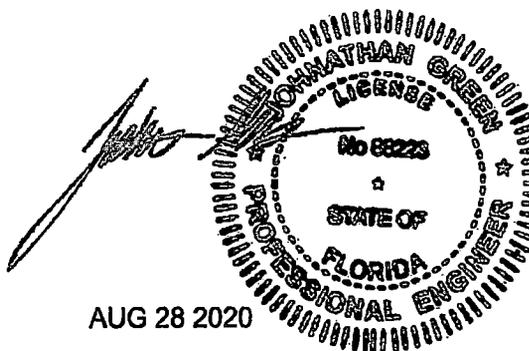
Category: Structural Components  
Subcategory: Structural Wall  
Compliance Method: 61G20-3.005(2)(b)  
NON HVHZ

**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

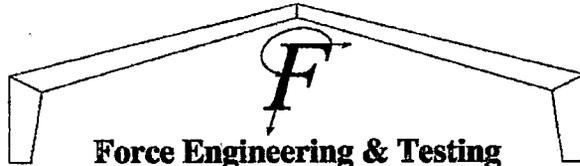
**Validator:**  
Brian Jaks, P.E. #70159

**Contents:**  
Evaluation Report Pages 1 - 4



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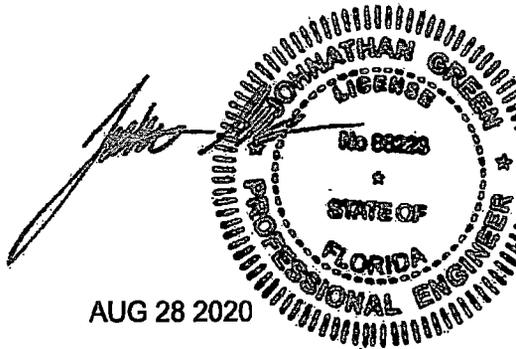
- Compliance Statement:** The product as described in this report has demonstrated compliance with the Florida Building Code 2020, Section 1709.2.
- Product Description:** MFMRs Multi-Rib Panel, Min. 29 Ga. Steel, 36" Wide, through fastened wall panel. Structural Application.
- Panel Material/Standards:** 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"-9"-7.5"-3" fastener pattern. Panel side laps fastened together w/ 1/4-14 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"

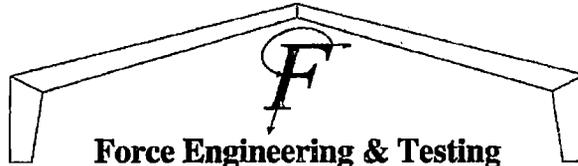
Maximum Design Pressure:	-140.0 psf
Fastener Pattern:	9"-9"-9"-7.5"-3"
Fastener Spacing:	2'-0" O.C.

\*Design Pressure includes a Safety Factor = 1.5.



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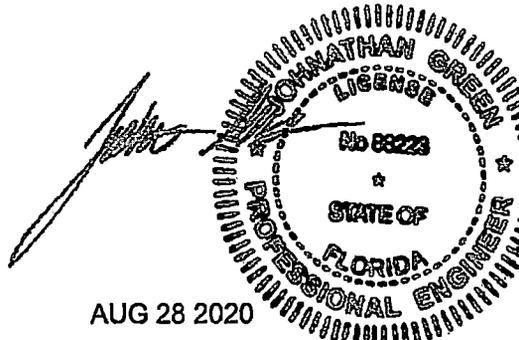


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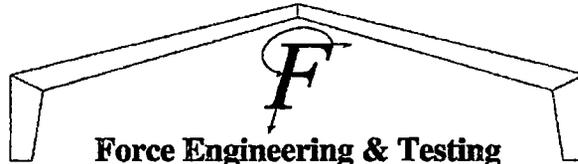
Phone: (281) 540-6603 FAX: (281) 540-9966  
Website: [www.forceengineeringtesting.com](http://www.forceengineeringtesting.com)

- 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
  2. 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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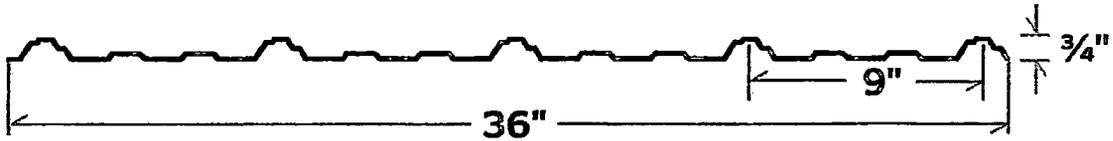
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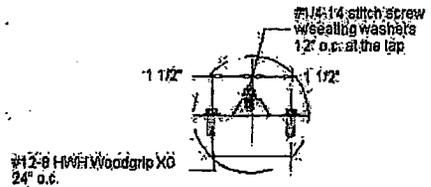
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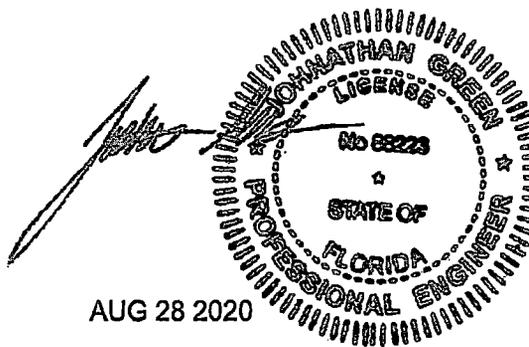
**1/4" - 14 X 7/8" HWH SD WITH SELF-SEALING WASHER**



**#12-8 X 1" HWH WOODGRIP XG WITH SELF-SEALING WASHER**



Fastener Locations at Panel Overlap



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Date Submitted 11/05/2020  
 Date Validated 11/05/2020  
 Date Pending FBC Approval  
 Date Approved 11/11/2020

**Summary of Products**

FL #	Model, Number or Name	Description
239.1	SH5400 (Non-Impact)	Vinyl Single Hung Window
<b>Limits of Use</b> 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.		<b>Certification Agency Certificate</b> <a href="#">FL239 R28 C CAC 20-0401.04.pdf</a> <b>Quality Assurance Contract Expiration Date</b> 07/30/2025 <b>Installation Instructions</b> <a href="#">FL239 R28 II 20-0401.04.pdf</a> Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: <b>Evaluation Reports</b> Created by Independent Third Party:
239.2	SH5500 (Large Missile Impact)	Vinyl Single Hung Window
<b>Limits of Use</b> 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.		<b>Certification Agency Certificate</b> <a href="#">FL239 R28 C CAC 20-0401.03.pdf</a> <b>Quality Assurance Contract Expiration Date</b> 07/30/2025 <b>Installation Instructions</b> <a href="#">FL239 R28 II 20-0401.03.pdf</a> Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: <b>Evaluation Reports</b> Created by Independent Third Party:
239.3	SH7600 (Non-Impact)	Aluminum Single Hung Window
<b>Limits of Use</b> 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.		<b>Certification Agency Certificate</b> <a href="#">FL239 R28 C CAC 20-0401.12.pdf</a> <b>Quality Assurance Contract Expiration Date</b> 08/23/2023 <b>Installation Instructions</b> <a href="#">FL239 R28 II 20-0401.12.pdf</a> Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: <b>Evaluation Reports</b> Created by Independent Third Party:
239.4	SH7700 (Large Missile Impact)	Aluminum Single Hung Window
<b>Limits of Use</b> 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.		<b>Certification Agency Certificate</b> <a href="#">FL239 R28 C CAC 20-0401.11.pdf</a> <b>Quality Assurance Contract Expiration Date</b> 08/23/2023 <b>Installation Instructions</b> <a href="#">FL239 R28 II 20-0401.11.pdf</a> Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: <b>Evaluation Reports</b> Created by Independent Third Party:



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

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Credit Card  
 Safe





DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
 BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
 PRODUCT CONTROL SECTION  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599  
[www.miamidadecounty.gov/economy](http://www.miamidadecounty.gov/economy)

**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 Zone.-

**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

**PGT Industries, Inc.**

**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 202-94along 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 202-94window, 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 6<sup>th</sup> 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).



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**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 6<sup>th</sup> 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.



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

**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 6<sup>th</sup> Edition (2017)** and **FBC 7<sup>th</sup> 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.



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**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 6<sup>th</sup> Edition (2017)** and **FBC 7<sup>th</sup> Edition (2020)**, dated March 10, 2020, issued by manufacturer, signed and sealed 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.



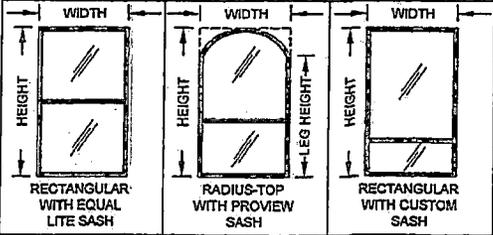
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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 20-0401.11**  
**Expiration Date: August 23, 2023**  
**Approval Date: July 30, 2020**

**2020 FLORIDA BUILDING CODE (FBC) RESISTANT SINGLE HUNG WINDOW**

- 1) THIS PRODUCT IS DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE IN 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 PER ANCHOR TYPE.
- 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 E1300.
  - 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, ANSII/AP&PA NDS & ALUMINUM DESIGN MANUAL.
- 11) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

**FIGURE A: ALLOWABLE SASH CONFIGURATIONS AND SHAPES**



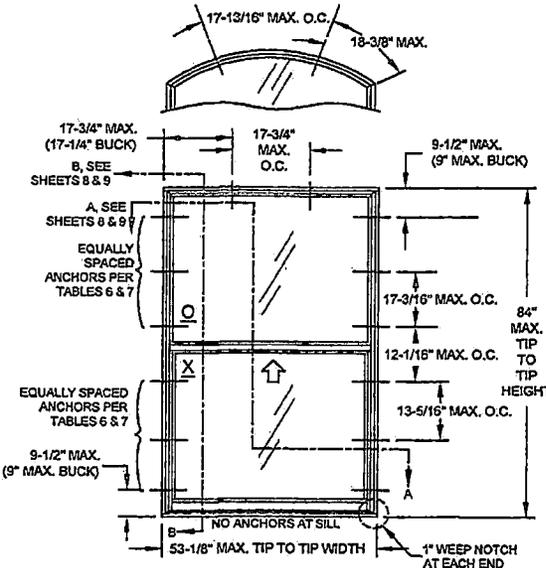
ALL SHAPES WITH ALL SASH CONFIGURATIONS ARE APPROVED. SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE FROM THE TABLES ON THE FOLLOWING SHEETS.

- CODES / STANDARDS USED:**
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
  - 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
  - ASTM E1300-09
  - ANSII/AP&PA NDS-2018 FOR WOOD CONSTRUCTION
  - ALUMINUM DESIGN MANUAL, ADM-2015
  - AISI S100-16
  - AISC 360-16

SG = KURARAY SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.  
 PVB = KURARAY TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.  
 AN = ANNEALED  
 HS = HEAT-STRENGTHENED  
 TP = TEMPERED

**GENERAL NOTES**

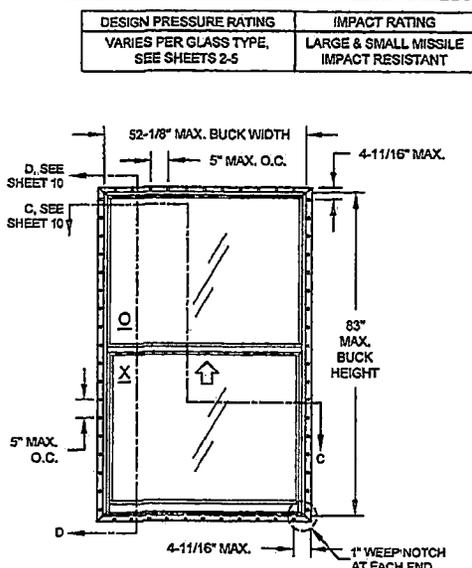
.....	1
ELEVATIONS	1
DESIGN PRESSURES / GLAZING DETAILS	2-4
ANCHOR QUANTITIES	5-6
INSTALLATION, FLANGE	7
INSTALLATION, EQUAL LEG	8
INSTALLATION, INTEGRAL FIN	9
EXTRUSION PROFILES	10
ASSEMBLY & PARTS LIST	11



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

**TABLE 1: ALLOWABLE GLASS TYPES**

Glass Type	Description (Listed from Exterior to Interior)	DP Table #
1	1/8" AN, .090° PVB, 1/8" AN	2
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
5	3/16" AN, .090° PVB, 3/16" AN	4
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
8	3/16" AN, .090° SG, 3/16" AN	5
9	3/16" HS, .090° SG, 3/16" HS	5
10	13/16" LIG: 1/8" AN CAP, AIRSPACE, 1/8" HS, .090° SG, 1/8" HS	5
11	13/16" LIG: 1/8" AN CAP, AIRSPACE, 3/16" AN, .090° SG, 3/16" AN	5
12	13/16" LIG: 1/8" TP CAP, AIRSPACE, 1/8" HS, .090° SG, 1/8" HS	5
13	13/16" LIG: 1/8" TP CAP, AIRSPACE, 3/16" AN, .090° SG, 3/16" AN	5
14	13/16" LIG: 3/16" AN CAP, AIRSPACE, 1/8" HS, .090° SG, 1/8" HS	5
15	13/16" LIG: 3/16" TP CAP, AIRSPACE, 1/8" HS, .090° SG, 1/8" HS	5



**ELEVATION FOR TYP. FIN FRAME SHOWN WITH EQUAL-LITE CONFIGURATION**

**USER INSTRUCTIONS:**

- 1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT FROM ASCE 7.
  - 2) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLES 2-5. IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.
  - 3) DETERMINE THE ANCHOR QUANTITY FROM TABLES 6 & 7.
  - 4) INSTALL AS PER SHEET 7 FOR FLANGE INSTALLATION, SHEET 8 FOR EQUAL LEG INSTALLATION OR SHEET 9 FOR INTEGRAL FIN INSTALLATION.
- NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (FLANGE, INTEGRAL FIN OR EQUAL LEG/BOX).

<b>DESIGN PRESSURE RATING</b> VARIES PER GLASS TYPE, SEE SHEETS 2-5	<b>IMPACT RATING</b> LARGE & SMALL MISSILE IMPACT RESISTANT
--	---

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. **20-0401.11**  
 Expiration Date **08/23/2023**  
 By *[Signature]*  
 Miami-Dade Product Control

A) UPDATED TO FBC 2020, REVISED ANCHOR TYPE TABLE.  
 JR - 03/11/20

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941) 480-1600

ALUMINUM SINGLE HUNG INSTALL (L-M)  
 JENS ROSOWSKI  
 7700NOA-1  
 SH7700A

REGISTRATION #29266

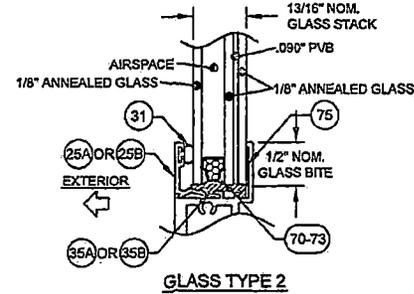
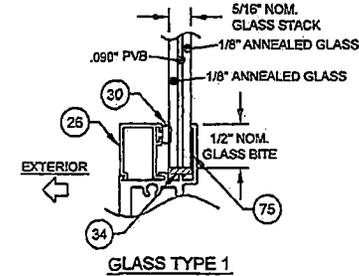
ANTHONY LYNN MILLER  
 LICENSE  
 No. 56705  
 3/15/20  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 A. LYNN MILLER, P.E.  
 P.E.# 56705

TABLE 2:

Tip to Tip Height	Bottom Sash Description for Glazing Range	Sash Height Range (in)	Design Pressure (lbs/ft <sup>2</sup> ) for Glass Types 1 & 2															
			Tip to Tip Width															
			16"	25"	33"	37"	41"	45"	49"	53-1/8"	16"	25"	33"	37"	41"	45"	49"	53-1/8"
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	-80.0
	Equal-Lite	15,964	+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	-80.0	+65.0	-80.0
31"	Standard Preview	12,994 - 15,963	+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	-80.0
	Shortest	12,464 - 12,993	+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	-80.0
38-3/8"	Equal-Lite	19,852	+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	-80.0
	Standard Preview	15,944 - 19,851	+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	-80.0
	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	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	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	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
45"	Standard Preview	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	+65.0	-80.0
	Equal-Lite	22,964	+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	-80.0	+65.0	-80.0
	Custom Size	20,131 - 22,963	+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	-80.0
	Standard Preview	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	-80.0	+65.0	-80.0
49"	Custom Size	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	-80.0	+65.0	-80.0
	Custom Size	15,131 - 16,130	+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	-80.0
	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	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	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	+65.0	-80.0
50-5/8"	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	-80.0	+65.0	-80.0
	Custom Size	22,131 - 24,963	+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	-80.0
	Standard Preview	20,194 - 22,130	+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	-80.0
	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	-80.0
55-5/8"	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	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	Custom Size	15,131 - 16,130	+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	-80.0
	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	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	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	+65.0	-80.0
63"	Equal-Lite	31,964	+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	-80.0	+65.0	-80.0
	Custom Size	28,131 - 31,963	+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	-80.0
	Standard Preview	25,794 - 28,130	+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	-80.0
	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	-80.0	+65.0	-80.0
76"	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	-80.0	+65.0	-80.0	+65.0	-80.0
	Custom Size	20,131 - 22,130	+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	-80.0
	Custom Size	18,131 - 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	-80.0	+65.0	-80.0
	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	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
84"	Shortest	13,194 - 16,130	+69.0	-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	-80.0
	Equal-Lite	38,464	+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	-80.0
	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	-80.0	+65.0	-80.0
	Standard Preview	34,194 - 36,130	+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	-80.0

\* 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

- 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.



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. **20-0401.11**  
 Expiration Date **03/23/2023**  
 By *[Signature]*  
 Miami-Dade Product Control

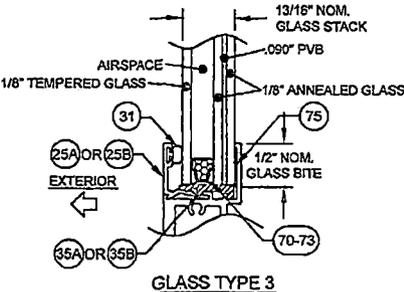
A) NO CHANGES THIS SHEET.  
 JR - 03/11/20

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	04/01/18	JENS ROSOWSKI	A
	01/07/18	7700NOA-1	
ALUMINUM SINGLE HUNG INSTALL. (LM)	2 OF 11	DP TABLE	SH7700A

ANTHONY LYNN MILLER  
 LICENSE  
 No. 58705  
*[Signature]*  
 PROFESSIONAL ENGINEER  
 FLORIDA  
 A. LYNN MILLER, P.E.  
 P.E.# 58705

TABLE 3:

Tip to Tip Height	Bottom Sash Description for Given Range	Sash Height Range (in)	Design Pressure (lbs/ft <sup>2</sup> ) for Glass Type 3															
			Tip to Tip Width															
			18"	25"	33"	37"	41"	45"	49"	53-1/8"	18"	25"	33"	37"	41"	45"	49"	53-1/8"
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	-80.0
	Equal-Lite	15,984	+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	-80.0
31"	Standard Preview	12,994 - 15,993	+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	-80.0
	Shortest	12,464 - 12,993	+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	-80.0
38-3/8"	Equal-Lite	19,652	+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	-80.0
	Standard Preview	15,944 - 19,651	+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	-80.0
	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	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	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	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
45"	Equal-Lite	22,964	+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	-80.0	+65.0	-80.0
	Custom Size	20,131 - 22,963	+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	-80.0
	Standard Preview	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	-80.0	+65.0	-80.0
	Custom Size	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	-80.0	+65.0	-80.0
49"	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	-80.0	+65.0	-80.0
	Custom Size	22,131 - 24,963	+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	-80.0
	Standard Preview	20,194 - 22,130	+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	-80.0
	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	-80.0
50-5/8"	Equal-Lite	25,777	+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	-80.0
	Custom Size	24,131 - 25,776	+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	-80.0
	Standard Preview	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	-80.0	+65.0	-80.0	+65.0	-80.0
	Custom Size	20,131 - 20,843	+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	-80.0
63"	Equal-Lite	31,994	+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	-80.0
	Custom Size	28,131 - 31,993	+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	-80.0
	Standard Preview	25,794 - 28,130	+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	-80.0
	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	-80.0	+65.0	-80.0
76"	Equal-Lite	38,464	+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	-80.0
	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	-80.0	+65.0	-80.0
	Standard Preview	30,994 - 34,130	+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	-80.0
	Custom Size	30,131 - 30,993	+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	-80.0
84"	Equal-Lite	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	-80.0	+65.0	-80.0
	Standard Preview	34,194* - 38,130	+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	-80.0



\* 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 - 49.391  
 MINIMUM SASH HEIGHT FOR FLANGED, RADIUS TOP WINDOWS IS: TIP TO TIP HEIGHT - 49.805  
 MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG, RADIUS TOP WINDOWS IS: BUCK HEIGHT - 48.805

- 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.

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

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

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34276  
 (941) 480-1600

REGISTRATION #29286

ALUMINUM SINGLE HUNG INSTALL. (LM)

DP TABLE

3 OF 11

JENS ROSOWSKI  
 7700NOA-1  
 A

ANTHONY LYNN MILLER  
 LICENSE  
 No. 53705  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 A. LYNN MILLER, P.E.  
 P.E.# 53705

TABLE 4: Design Pressure (psf) for Glass Types 4-7

Tip To Tip Height	Bottom Sash Description for Given Range	Sash Height Range (ft)	Tip To Tip Width	
			53-1/8"	53-1/8"
24"	Equal-ite	12.484	+65.0	-80.0
	Equal-ite	15.964	+65.0	-80.0
31"	Standard Preview	12.994 - 15.963	+65.0	-80.0
	Shortest	12.484 - 12.993	+65.0	-80.0
39-3/8"	Equal-ite	19.652	+65.0	-80.0
	Standard Preview	19.044 - 19.651	+65.0	-80.0
	Custom Size	15.131 - 15.943	+65.0	-80.0
	Custom Size	14.131 - 15.130	+65.0	-80.0
	Shortest	12.484 - 14.130	+65.0	-80.0
45"	Equal-ite	22.864	+65.0	-80.0
	Custom Size	20.131 - 22.863	+65.0	-80.0
	Standard Preview	18.594 - 20.130	+65.0	-80.0
	Custom Size	16.131 - 18.593	+65.0	-80.0
	Custom Size	15.131 - 16.130	+65.0	-80.0
49"	Equal-ite	24.864	+65.0	-80.0
	Custom Size	22.131 - 24.863	+65.0	-80.0
	Standard Preview	20.194 - 22.130	+65.0	-80.0
	Custom Size	18.131 - 20.193	+65.0	-80.0
	Custom Size	16.131 - 18.130	+65.0	-80.0
50-5/8"	Equal-ite	25.777	+65.0	-80.0
	Custom Size	24.131 - 25.776	+65.0	-80.0
	Standard Preview	20.844 - 24.130	+65.0	-80.0
	Custom Size	20.131 - 20.843	+65.0	-80.0
	Custom Size	18.131 - 20.130	+65.0	-80.0
63"	Equal-ite	31.964	+65.0	-80.0
	Custom Size	28.131 - 31.963	+65.0	-80.0
	Standard Preview	25.794 - 28.130	+65.0	-80.0
	Custom Size	24.131 - 25.793	+65.0	-80.0
	Custom Size	22.131 - 24.130	+65.0	-80.0
76"	Equal-ite	38.464	+65.0	-80.0
	Custom Size	36.131 - 38.463	+65.0	-80.0
	Standard Preview	30.994 - 34.130	+65.0	-80.0
	Custom Size	30.131 - 30.993	+65.0	-80.0
	Custom Size	28.131 - 30.130	+65.0	-80.0
84"	Equal-ite	42.464	+65.0	-80.0
	Standard Preview	34.194 - 38.130	+65.0	-80.0

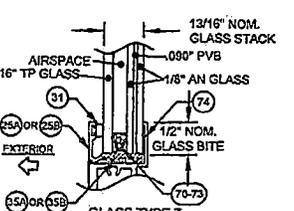
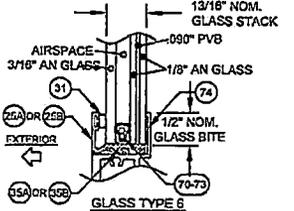
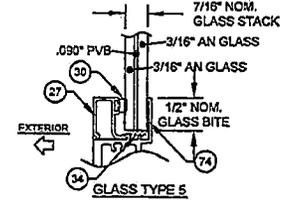
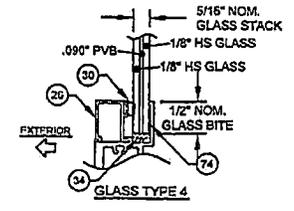
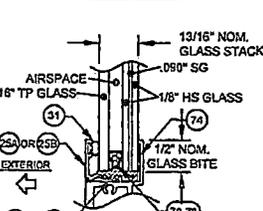
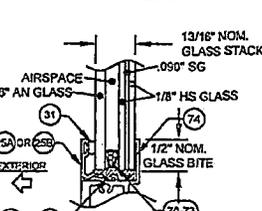
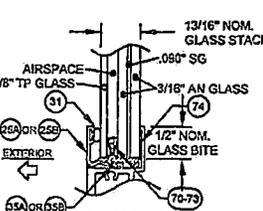
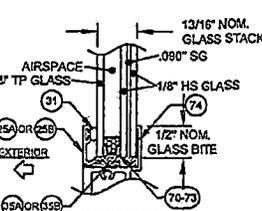
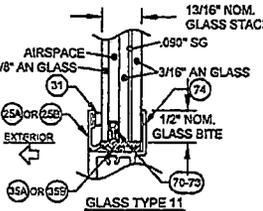
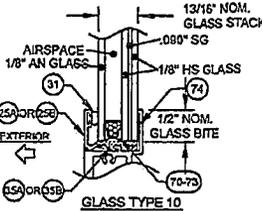
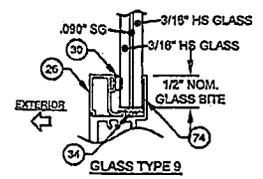
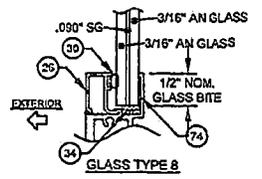


TABLE 5: Design Pressure for Glass Types 8-15

Tip To Tip Height	Bottom Sash Description for Given Range	Sash Height Range (ft)	Tip To Tip Width	
			53-1/8"	53-1/8"
24"	Equal-ite	12.484	+80.0	-110.0
	Equal-ite	15.964	+80.0	-110.0
31"	Standard Preview	12.994 - 15.963	+80.0	-110.0
	Shortest	12.484 - 12.993	+80.0	-110.0
39-3/8"	Equal-ite	19.652	+80.0	-110.0
	Standard Preview	19.044 - 19.651	+80.0	-110.0
	Custom Size	15.131 - 15.943	+80.0	-110.0
	Custom Size	14.131 - 15.130	+80.0	-110.0
	Shortest	12.484 - 14.130	+80.0	-110.0
45"	Equal-ite	22.864	+80.0	-110.0
	Custom Size	20.131 - 22.863	+80.0	-110.0
	Standard Preview	18.594 - 20.130	+80.0	-110.0
	Custom Size	16.131 - 18.593	+80.0	-110.0
	Custom Size	15.131 - 16.130	+80.0	-110.0
49"	Equal-ite	24.864	+80.0	-110.0
	Custom Size	22.131 - 24.863	+80.0	-110.0
	Standard Preview	20.194 - 22.130	+80.0	-110.0
	Custom Size	18.131 - 20.193	+80.0	-110.0
	Custom Size	16.131 - 18.130	+80.0	-110.0
50-5/8"	Equal-ite	25.777	+80.0	-110.0
	Custom Size	24.131 - 25.776	+80.0	-110.0
	Standard Preview	20.844 - 24.130	+80.0	-110.0
	Custom Size	20.131 - 20.843	+80.0	-110.0
	Custom Size	18.131 - 20.130	+80.0	-110.0
63"	Equal-ite	31.964	+80.0	-110.0
	Custom Size	28.131 - 31.963	+80.0	-110.0
	Standard Preview	25.794 - 28.130	+80.0	-110.0
	Custom Size	24.131 - 25.793	+80.0	-110.0
	Custom Size	22.131 - 24.130	+80.0	-110.0
76"	Equal-ite	38.464	+80.0	-110.0
	Custom Size	36.131 - 38.463	+80.0	-110.0
	Standard Preview	30.994 - 34.130	+80.0	-110.0
	Custom Size	30.131 - 30.993	+80.0	-110.0
	Custom Size	28.131 - 30.130	+80.0	-110.0
84"	Equal-ite	42.464	+80.0	-110.0
	Standard Preview	34.194 - 38.130	+80.0	-110.0



\* 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 - 49.391  
 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 - 49.806

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.  
 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.

AN= ANNEALED  
 TP= TEMPERED  
 HS= HEAT STRENGTHENED

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

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

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34276  
 (941) 480-1600

ALUMINUM SINGLE HUNG INSTALL (LM)  
 REGISTRATION #29296

JENS ROSOWSKI  
 04/01/18

DP TABLE  
 SH7700A-1  
 4 OF 11

ANTHONY LYNN MILLER  
 LICENSE  
 No. 58705  
 2/13/20  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 A. LYNN MILLER, P.E.  
 P.E.# 58705

**TABLE 6:**  
Anchor Quantities Required for "Through-Frame" Installation using Glass Types 1-7

Tip to Tip Height	Bottom Sash Description for Given Range	Sash Height Range (in)	Tip to Tip Width																	
			18"		25"		33"		37"		41"		45"		49"		53-1/8"			
			Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header		
24"	Equal-Lite	12.464	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	Equal-Lite	15.964	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Standard Preview	12.994 - 15.963	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
31"	Shortest	12.464 - 12.993	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Equal-Lite	19.652	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Standard Preview	15.944 - 19.651	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
36-3/8"	Custom Size	15.131 - 15.943	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Custom Size	14.131 - 15.130	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Shortest	12.464 - 14.130	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
45"	Equal-Lite	22.964	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Custom Size	20.131 - 22.963	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Standard Preview	18.594 - 20.130	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
49"	Custom Size	18.131 - 18.593	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Custom Size	15.131 - 18.130	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Custom Size	14.131 - 15.130	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
50-5/8"	Shortest	12.464 - 14.130	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1	3		
	Equal-Lite	24.964	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Custom Size	22.131 - 24.963	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
63"	Standard Preview	20.194 - 22.130	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Custom Size	18.131 - 20.193	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	Custom Size	16.131 - 18.130	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1	3		
76"	Shortest	12.464 - 14.130	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1	3		
	Equal-Lite	31.964	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2		
	Custom Size	28.131 - 31.963	3	3	1	3	3	1	3	3	1	3	3	1	3	3	1	3		
84"	Standard Preview	25.794 - 28.130	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1	3		
	Custom Size	24.131 - 25.793	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1	3		
	Custom Size	22.131 - 24.130	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1	3		

\* 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 - 48.806  
 MINIMUM SASH HEIGHT FOR INTEGRAL FIN AND EQUAL LEG, RADIUS TOP WINDOWS IS: BUCK HEIGHT - 48.806

**TABLE 6B:**

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" PVB, 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 Florida Building Code  
 NOA-No. **20-0401.11**  
 Expiration Date **08/23/2023**  
 By   
 Miami-Dade Product Control

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

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941) 480-1800

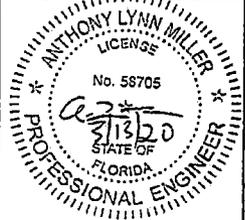
REGISTRATION #23296

ALUMINUM SINGLE HUNG INSTALL. (LM)

ANCHOR QUANTITY TABLE

5 OF 11

JENS ROSOWSKI  
 7700NOA-1  
 A

ANTHONY LYNN MILLER  
 LICENSE  
 No. 58705  
  
 PROFESSIONAL ENGINEER  
 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.

TABLE 7: Anchor Quantities Required for "Through-Frame" Installation using Glass Types 8-15			Tip to Tip Width																
Tip to Tip Height	Bottom Sash Description for Given Range	Sash Height Range (in)	18"		25"		33"		37"		41"		45"		49"		53-1/8"		
			Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	Jamb	Header	
24"	Equal-Itto	12,484	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
	Equal-Lite	15,964	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
31"	Standard Preview	12,994 - 15,963	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
	Shortest	12,484 - 12,993	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
38-3/8"	Equal-Itto	19,652	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
	Standard Preview	15,944 - 19,651	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
45"	Custom Size	15,131 - 15,943	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
	Custom Size	14,131 - 15,130	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
49"	Equal-Itto	22,964	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
	Standard Preview	18,594 - 20,130	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
50-5/8"	Custom Size	16,131 - 18,593	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
	Custom Size	15,131 - 16,130	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2
63"	Equal-Itto	31,964	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	Standard Preview	25,794 - 28,130	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1	3	2
76"	Equal-Itto	38,464	3	3	1	3	3	1	3	3	1	3	3	1	3	3	1	3	3
	Standard Preview	30,994 - 34,130	3	3	1	3	3	1	3	3	1	3	3	1	3	3	1	3	3
84"	Equal-Itto	42,464	3	4	1	3	4	1	3	4	1	3	4	1	3	4	1	3	4
	Standard Preview	34,194 - 39,130	4	3	1	4	3	1	4	3	1	4	3	1	4	3	1	4	3

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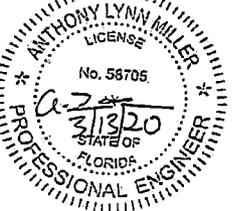
TABLE 7B:	
Glass Type	Description (Listed from Exterior to Interior)
8	3/16" AN, .090" SG, 3/16" AN
9	3/16" HS, .090" SG, 3/16" HS
10	13/16" LG; 1/8" AN CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS
11	13/16" LG; 1/8" AN CAP, AIRSPACE, 3/16" AN, .090" SG, 3/16" AN
12	13/16" LG; 1/8" TP CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS
13	13/16" LG; 1/8" TP CAP, AIRSPACE, 3/16" AN, .090" SG, 3/16" AN
14	13/16" LG; 3/16" AN CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS
15	13/16" LG; 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 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.

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. **20-0401.11**  
 Expiration Date **08/23/2023**  
 By *[Signature]*  
 Miami-Dade Product Control

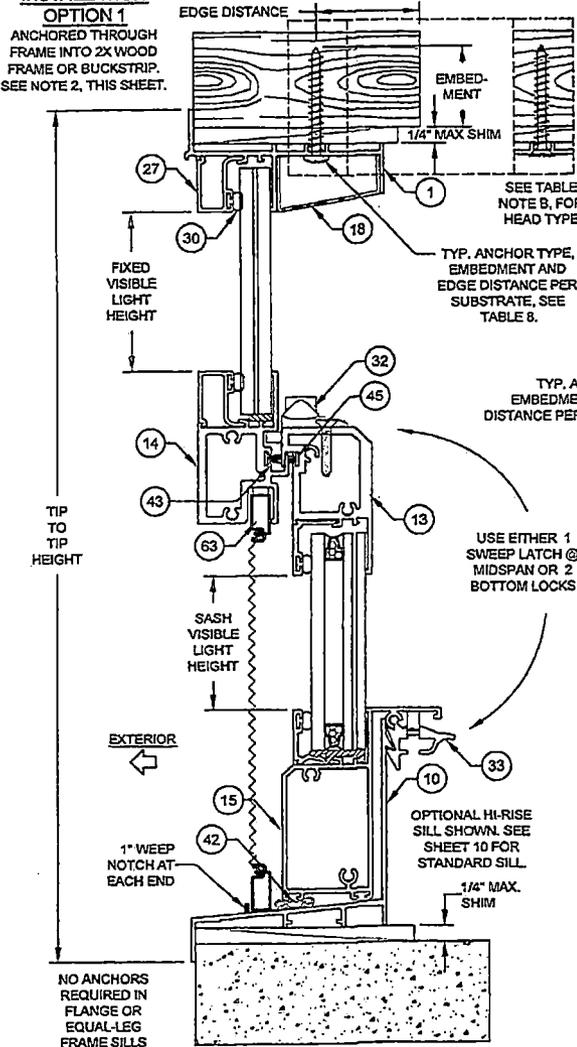
A) NO CHANGES THIS SHEET.  
 JR - 03/11/20

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (841) 480-1600	Date	04/01/18	Rev.	A
	Drawn	JENS ROSOWSKI	Proj	7700NOA-1
 REGISTRATION #29285 ALUMINUM SINGLE HUNG INSTALL. (LM) ANCHOR QUANTITY TABLE	Sheet	6 OF 11	Disc	
	Scale		Title	

 ANTHONY LYNN MILLER LICENSE No. 56705 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E. P.E.# 56705

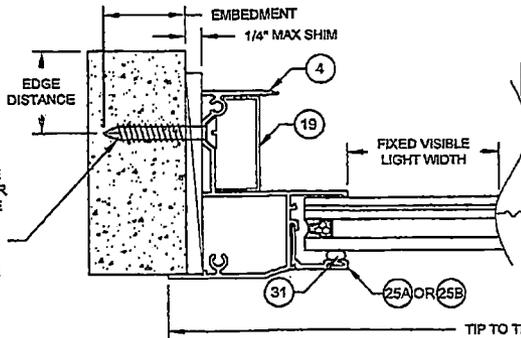
**INSTALLATION DETAILS FOR FLANGE FRAMES**

**INSTALLATION OPTION 1**  
ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



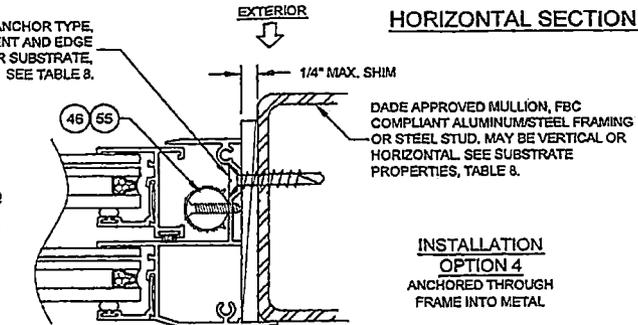
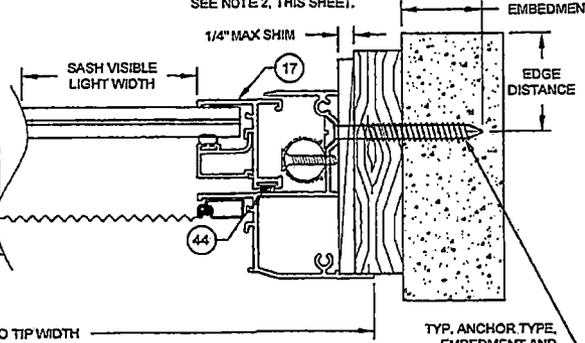
**VERTICAL SECTION B-B**

**INSTALLATION OPTION 2**  
ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU.



**HORIZONTAL SECTION A-A**

**INSTALLATION OPTION 3**  
ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.



**INSTALLATION OPTION 4**  
ANCHORED THROUGH FRAME INTO METAL

**VISIBLE LIGHT FORMULAS:**  
(SHOWN FOR HI-RISE SILL; SEE SHEET 9 FOR STANDARD SILL)

**WIDTH**  
@ SASH & FIXED LITE: TIP TO TIP WIDTH - 5.12"

**HEIGHT (EQUAL-LITE)**  
TIP TO TIP HEIGHT/2 - 3.73"

**HEIGHT (PROVIEW)**  
@ FIXED LITE: TIP TO TIP HEIGHT/2 + 3.78"  
@ SASH: TIP TO TIP HEIGHT/2 - 11.93"

**HEIGHT (CUSTOM SASH)**  
@ FIXED LITE: TIP TO TIP HEIGHT - SASH HEIGHT - 3.55"  
@ SASH: SASH HEIGHT - 4.60"

**TABLE 8:**

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#12 Stool, 18-8 or 410 SS Screw	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.063"
	A36 Steel	3/8"	0.063"
1/4" 410 SS CretoFlex	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga)
	Concrete (min. 3.35 ksi)	1"	1-3/4"
1/4" Steel Ultracon	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 2.85 ksi)	1"	1-3/8"
1/4" Steel Ultracon +	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3.00 ksi)	1-3/16"	1-3/8"
1/4" Steel Ultracon +	UngROUTED CMU, (ASTM C-90)	1-1/2"	1-1/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"

- A) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
- B) USE ONLY FLATHEAD ANCHORS IN JAMBS. PAN/HEX/FLAT HEAD TYPE IS ALLOWABLE FOR ANCHORS IN THE HEAD.
- C) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

**NOTES:**

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 8. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 8. 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 DERIVED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **20-0401.11**  
Expiration Date **08/23/2023**  
By *[Signature]*  
Miami-Dade Product Control

**A) REVISED ANCHOR TYPE TABLE.**  
JR - 03/11/20

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1800

REGISTRATION #29296

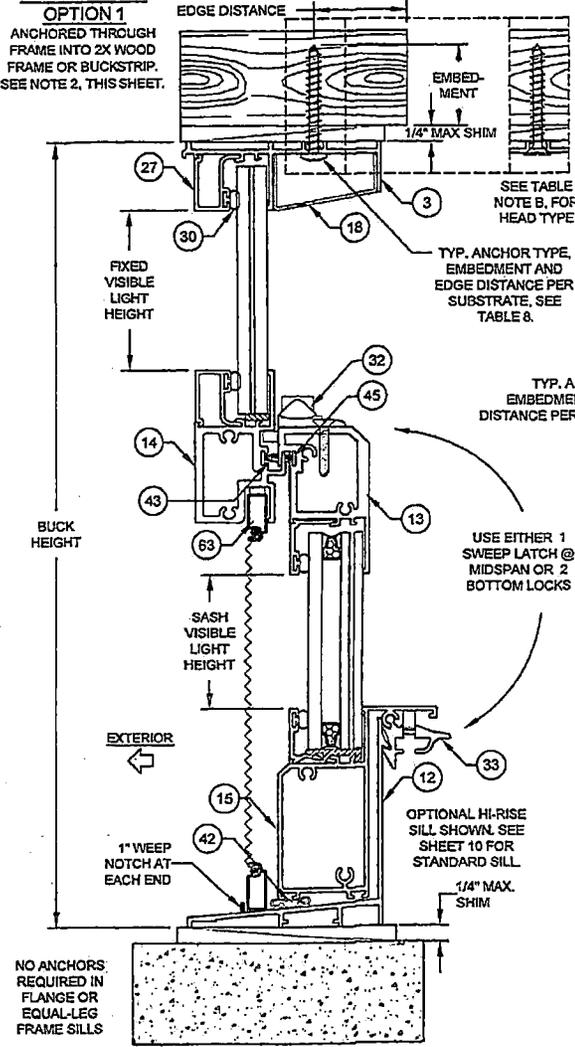
ALUMINUM SINGLE HUNG INSTALL. (LM)  
FLANGE X-SECTION

04/01/18  
JENS ROSOWSKI  
7 OF 11  
SH7700A

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
2/13/20  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705

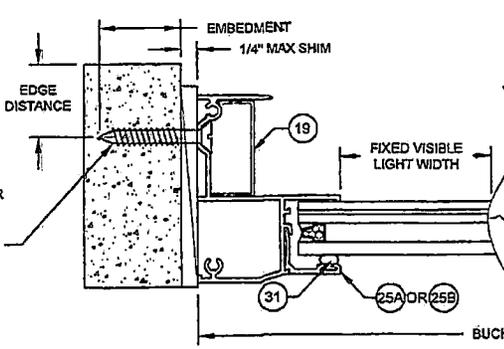
**INSTALLATION DETAILS FOR EQUAL-LEG FRAMES**

**INSTALLATION OPTION 1**  
ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



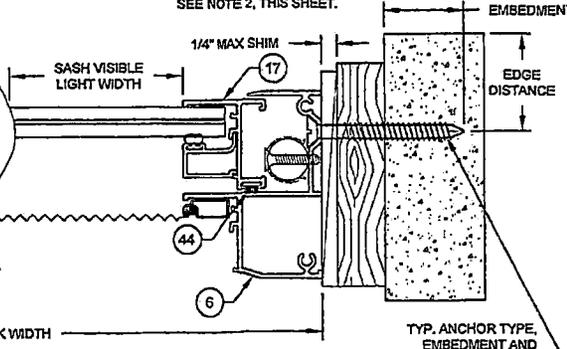
**VERTICAL SECTION B-B**

**INSTALLATION OPTION 2**  
ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU.



**HORIZONTAL SECTION A-A**

**INSTALLATION OPTION 3**  
ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.



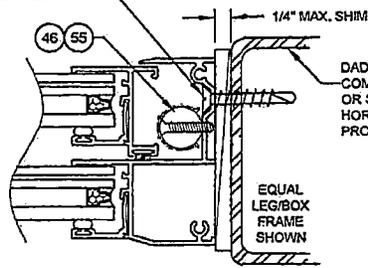
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 8.

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 8.

USE EITHER 1 SWEEP LATCH @ MIDSPAN OR 2 BOTTOM LOCKS

DADE APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD, MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE 8.

**INSTALLATION OPTION 4**  
ANCHORED THROUGH FRAME INTO METAL



**VISIBLE LIGHT FORMULAS:**  
(SHOWN FOR HI-RISE SILL; SEE SHEET 9 FOR STANDARD SILL)

**WIDTH**  
@ SASH & FIXED LITE: BUCK WIDTH - 4.12"

**HEIGHT (EQUAL-LITE)**  
BUCK HEIGHT/2 - 3.23"

**HEIGHT (PROVIEW)**  
@ FIXED LITE: BUCK HEIGHT/2 + 4.28"  
@ SASH: BUCK HEIGHT/2 - 11.43"

**HEIGHT (CUSTOM SASH)**  
@ FIXED LITE: BUCK HEIGHT - SASH HEIGHT - 2.55"  
@ SASH: SASH HEIGHT - 4.60"

**TABLE 8:**

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#12 Steel, 18-8 or 410 SS Screw	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.063"
	A36 Steel	3/8"	0.063"
1/4" 410 SS CretoFlex	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga)
	Concrete (min. 3,35 ksi)	1"	1-3/4"
1/4" Steel Ultracon	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
1/4" Steel Ultracon +	Concrete (min. 2.85 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
1/4" Steel Ultracon +	Concrete (min. 3.00 ksi)	1-3/16"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1-1/2"	1-1/4"
1/4" Steel Ultracon +	P.T. Southern Pine (SG=0.55)	1"	1-3/8"

A) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.  
B) USE ONLY FLATHEAD ANCHORS IN JAMBS. PAN/HEX/FLAT HEAD TYPE IS ALLOWABLE FOR ANCHORS IN THE HEAD.  
C) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

**NOTES:**

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 8. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 8. 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 TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **20-0401.11**  
Expiration Date **08/23/2023**  
By *[Signature]*  
Miami-Dade Product Control

**A) REVISED ANCHOR TYPE TABLE.**  
JR - 03/11/20

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1800

REGISTRATION #29288

ALUMINUM SINGLE HUNG INSTALL. (LM)

EQUAL-LEG X-SECTION

8 OF 11

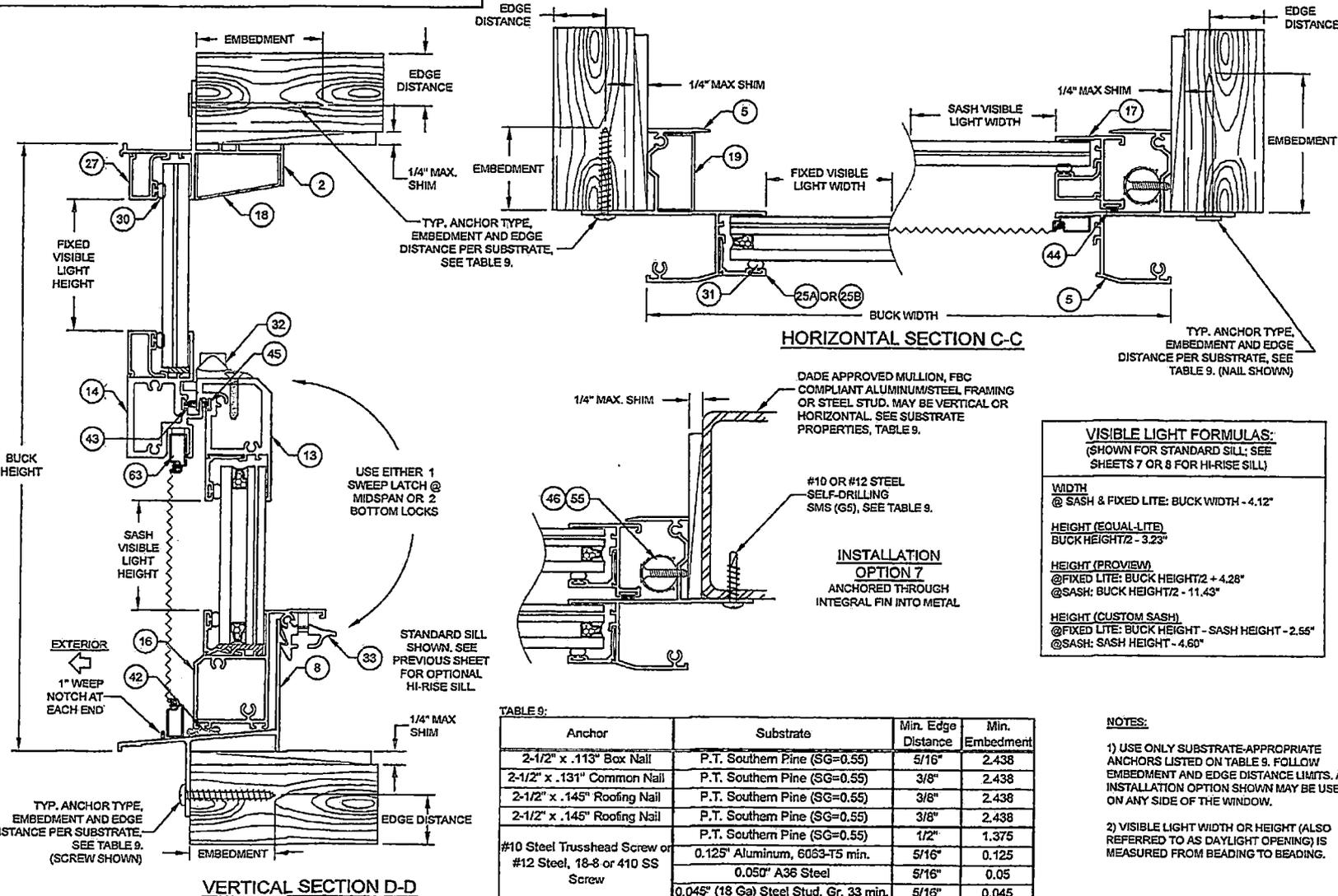
SH7700A

JENS ROSOWSKI

7700A-1

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
PROFESSIONAL ENGINEER  
FLORIDA  
A. LYNN MILLER, P.E.  
P.E.# 58705

**INSTALLATION DETAILS FOR INTEGRAL FIN FRAMES**



**VISIBLE LIGHT FORMULAS:**  
 (SHOWN FOR STANDARD SILL; SEE SHEETS 7 OR 8 FOR HI-RISE SILL)

WIDTH  
 @ SASH & FIXED LITE: BUCK WIDTH - 4.12"

HEIGHT (EQUAL-LITE)  
 BUCK HEIGHT/2 - 3.23"

HEIGHT (PROVIEW)  
 @FIXED LITE: BUCK HEIGHT/2 + 4.28"  
 @SASH: BUCK HEIGHT/2 - 11.43"

HEIGHT (CUSTOM SASH)  
 @FIXED LITE: BUCK HEIGHT - SASH HEIGHT - 2.65"  
 @SASH: SASH HEIGHT - 4.60"

**TABLE 9:**

Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .113" Box Nail	P.T. Southern Pine (SG=0.55)	5/16"	2.438
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG=0.55)	3/8"	2.438
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=0.55)	3/8"	2.438
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=0.55)	3/8"	2.438
#10 Steel Trusshead Screw or #12 Steel, 18-8 or 410 SS Screw	P.T. Southern Pine (SG=0.55)	1/2"	1.375
	0.125" Aluminum, 6063-T5 min.	5/16"	0.125
	0.050" A36 Steel	5/16"	0.05
	0.045" (18 Ga) Steel Stud, Gr. 33 min.	5/16"	0.045

A) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

**NOTES:**

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 9. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. **20-0401.11**  
 Expiration Date **08/23/2023**  
 By *[Signature]*  
 Miami-Dade Product Control

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

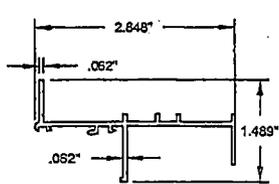
1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34276  
 (941) 480-1600

REGISTRATION 929286

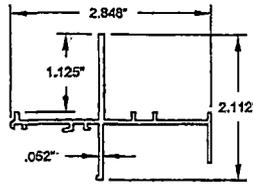
ALUMINUM SINGLE HUNG INSTALL. (LM) 04/01/18  
 INTEGRAL FIN X-SECTION  
 SH7700A

JENS ROSOWSKI  
 7700NOA-1  
 9 OF 11

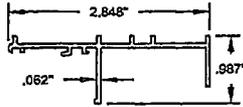
ANTHONY LYNN MILLER  
 LICENSE  
 No. 53705  
 3/13/20  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 A. LYNN MILLER, P.E.  
 P.E.# 58705



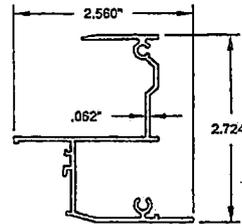
1 FLANGE FRAME HEAD



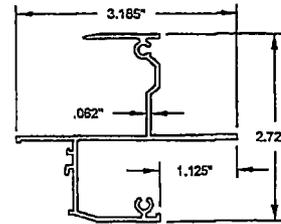
2 INTEGRAL FIN FRAME HEAD



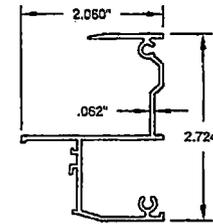
3 EQUAL LEG FRAME HEAD



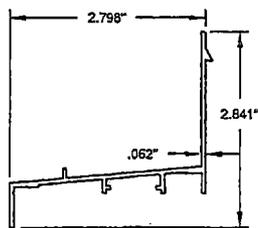
4 FLANGE FRAME JAMB



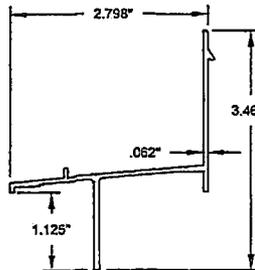
5 INTEGRAL FIN FRAME JAMB



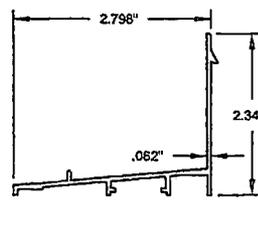
6 EQUAL LEG FRAME JAMB



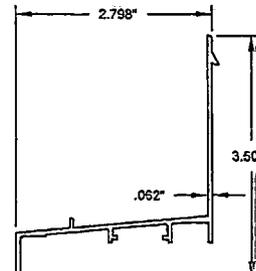
7 FLANGE FRAME SILL



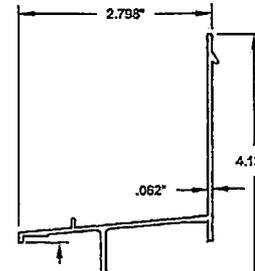
8 INTEGRAL FIN FRAME SILL



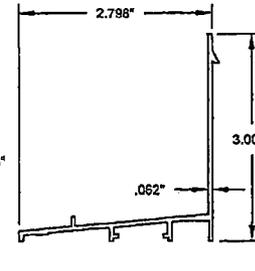
9 EQUAL LEG FRAME SILL



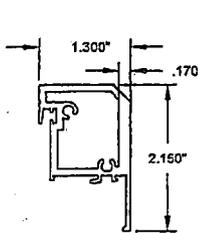
10 FLANGE FRAME SILL HI-RISE



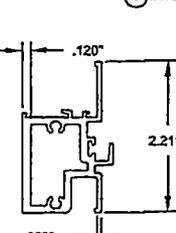
11 INTEGRAL FIN FRAME SILL - HI-RISE



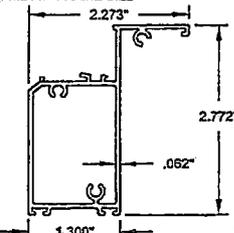
12 EQUAL LEG FRAME SILL HI-RISE



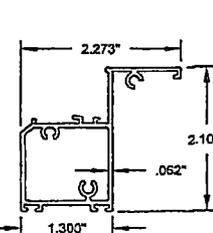
13 SASH TOP RAIL



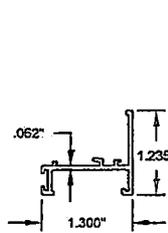
14 FIXED MEETING RAIL



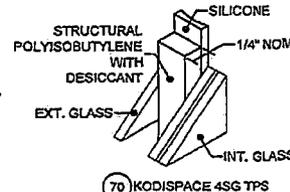
15 SASH BOTTOM RAIL - HI-RISE



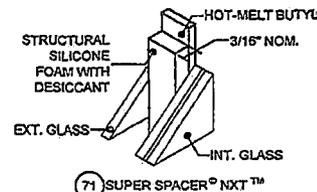
16 SASH BOTTOM RAIL



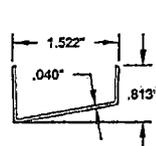
17 SASH SIDE RAIL



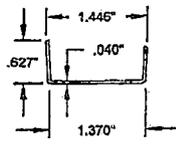
70 KODISPACE 4SG TPS



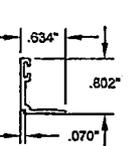
71 SUPER SPACER NXT™



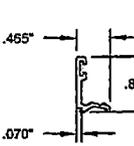
18 HEAD ANCHOR COVER



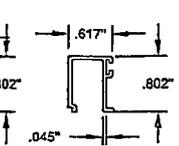
19 SASH STOP COVER



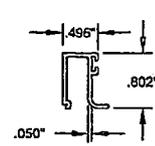
25A IG BEAD



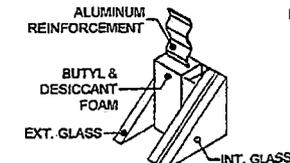
25B IG SNAP BEAD



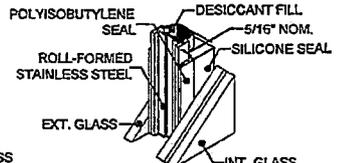
26 5/16\"/>



27 7/16\"/>



72 DURASEAL® SPACER



73 XL EDGE™ SPACER

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. **20-0401.11**  
 Expiration Date **08/23/2023**  
 By *[Signature]*  
 Miami-Dade Product Control

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

1070 TECHNOLOGY DRIVE N. VENICE, FL 34276 (941) 480-1600	04/01/18	JENS ROSOWSKI	A
	02/20	JENS ROSOWSKI	7700NOA-1
ALUMINUM SINGLE HUNG INSTALL (LM)	LM/IG	JENS ROSOWSKI	7700NOA-1
REGISTRATION #29296	10 OF 11	JENS ROSOWSKI	7700NOA-1
EXTRUSIONS	10 OF 11	JENS ROSOWSKI	7700NOA-1

ANTHONY LYNN MILLER  
 LICENSE  
 No. 58705  
 02/18/20  
 FLORIDA  
 PROFESSIONAL ENGINEER  
 A. LYNN MILLER, P.E.  
 P.E.# 58705

TABLE 11:

Item #	PGT Part #	Description	Material
1	624001	Head, Flange	Alum. 6063-T6
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-T62
5	624020	Jamb, Integral Fin	Alum. 6063-T6
5A		Jamb, Integral Fin (Used For Alternate Radius Top Head)	Alum. 6063-T62
6	624031	Jamb, Equal-Leg	Alum. 6063-T6
6A		Jamb, Equal-Leg (Used For Alternate Radius Top Head)	Alum. 6063-T62
7	624002	Sill, Flange	Alum. 6063-T6
8	624018	Sill, Integral Fin	Alum. 6063-T6
9	624029	Sill, Equal-Leg	Alum. 6063-T6
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-T61
14	624005	Fixed Meeting Rail	Alum. 6005A-T61
15	624012	Sash Bottom Rail - Hi-Rise	Alum. 6063-T6
16	624068	Sash Bottom Rail	Alum. 6063-T6
17	624007	Sash Side Rail	Alum. 6063-T6
18	624051	Head Anchor Cover	Alum. 6063-T6
19	624015	Sash Stop	Alum. 6063-T6
25A	624009	IG Bead	Alum. 6063-T6
25B	624011	IG Snap Bead	Alum. 6063-T6
26	624010	5/16" Lami Beading	Alum. 6063-T6
27	624026	7/16" Lami Beading	Alum. 6063-T6
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 Block (1/8" X 1/2" X 4")	Neoprene
35A		IG Setting Block (1/8" X 3/4" X 4")	Neoprene
35B	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 Bottom 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	
71	-	Quanex Super Spacer nXT	See Sheet
72	-	Quanex Duraseal Spacer	10 for Materials
73	-	Cardinal XL Edge Spacer	
74	-	Dow 791, 899, 983 or GE 7700 Backbedding	Silicone

NOTES:

- 1) ALL CORNERS TO USE GASKET AND/OR SEALANT.
- 2) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.

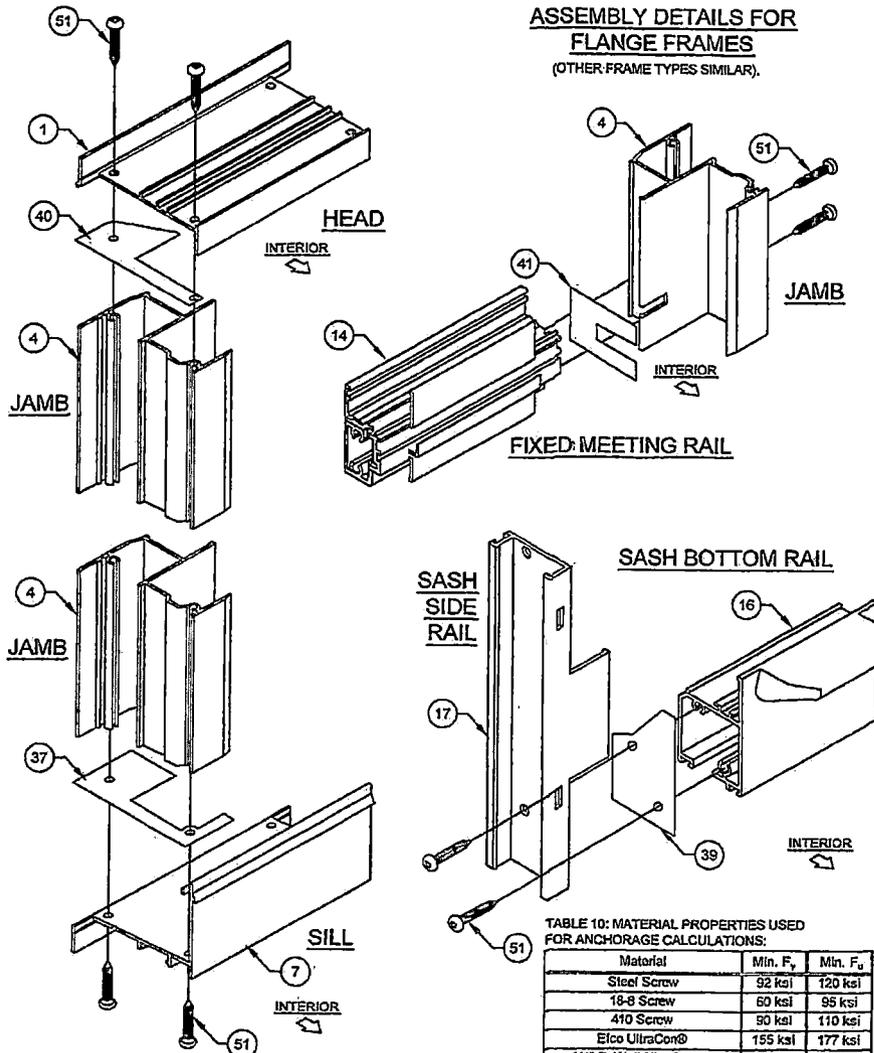


TABLE 10: MATERIAL PROPERTIES USED FOR ANCHORAGE CALCULATIONS:

Material	Min. F <sub>y</sub>	Min. F <sub>u</sub>
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	96 ksi
410 Screw	90 ksi	110 ksi
Elco UltraCon®	155 ksi	177 ksi
1/4" DeWalt UltraCon®	148 ksi	164 ksi
410 SS Elco/Dewalt CreteFlox®	127.4 ksi	169.7 ksi
6063-T6 Aluminum	16 ksi	22 ksi
A36 Steel	35 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. **20-0401.11**  
 Expiration Date **08/23/2023**  
 By *[Signature]*  
 Miami-Dade Product Control

A) ADDED BACKBEDDING,  
 UPDATED MATERIAL  
 PROP. TABLE.  
 JR - 03/11/20

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941) 480-1800

**PGT**  
 REGISTRATION #29296  
 ALUMINUM SINGLE HUNG INSTALL. (LM)  
 JENS ROSOWSKI  
 BOM & CORNER DETAILS  
 SH7700A  
 11 OF 11

ANTHONY LYNN MILLER  
 LICENSE  
 No. 58705  
 3/13/20  
 STATE OF  
 FLORIDA  
 PROFESSIONAL ENGINEER  
 A. LYNN MILLER, P.E.  
 P.E.# 58705



**Product Approval**  
 USER: Public User

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



FL #	FL21135-R5								
Application Type	Revision								
Code Version	2020								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	Therma-Tru Corporation								
Address/Phone/Email	1750 Indian Wood Circle Maumee, OH 43537 (800) 843-7628 sjasperson@thermatru.com								
Authorized Signature	Vivian Wright rickw@rwblgdconsultants.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Exterior Doors								
Subcategory	Swinging Exterior Door Assemblies								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Lyndon F. Schmidt, P.E.								
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. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	<a href="#">FL21135_R5_COI (j) Certificate of Independence.pdf</a>								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E330</td> <td>2002</td> </tr> <tr> <td>ASTM E331</td> <td>2000</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM E330	2002	ASTM E331	2000	TAS 202	1994
<u>Standard</u>	<u>Year</u>								
ASTM E330	2002								
ASTM E331	2000								
TAS 202	1994								
Equivalence of Product Standards Certified By									
Sections from the Code									

Date Submitted 07/12/2020  
 Date Validated 07/21/2020  
 Date Pending FBC Approval 07/25/2020  
 Date Approved 10/13/2020

**Summary of Products**

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)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.1 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.1.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.1.pdf</a> 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)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.2 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.2.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.2.pdf</a> 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)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.3 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.3.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.3.pdf</a> Created by Independent Third Party: Yes
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)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.4 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.4.pdf</a> Verified By: Lyndon F. Schmidt, P.E. P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.4.pdf</a> 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)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.5.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b>

	<b>Other:</b> See INST 21135.5 for Design Pressure Ratings, any 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.)	<a href="#">FL21135_R5_AE_(j)_Eval_21135.5.pdf</a> Created by Independent Third Party: Yes
21135.6	f. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Glazed Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
	<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.6 for Design Pressure Ratings, any 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.)	<b>Installation Instructions</b> <a href="#">FL21135_R5_II_(j)_Inst_21135.6.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135_R5_AE_(j)_Eval_21135.6.pdf</a> Created by Independent Third Party: Yes
21135.7	g. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Glazed Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
	<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.7 for Design Pressure Ratings, any 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.)	<b>Installation Instructions</b> <a href="#">FL21135_R5_II_(j)_Inst_21135.7.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135_R5_AE_(j)_Eval_21135.7.pdf</a> Created by Independent Third Party: Yes
21135.8	h. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Glazed Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
	<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.8 for Design Pressure Ratings, any 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.)	<b>Installation Instructions</b> <a href="#">FL21135_R5_II_(j)_Inst_21135.8.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135_R5_AE_(j)_Eval_21135.8.pdf</a> Created by Independent Third Party: Yes
21135.9	i. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Wood Edge Fiberglass Door Panels with Vented Sidelite(s) (Inswing; XX, XXX or XXXX configurations)
	<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.9 for Design Pressure Ratings, any 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.)	<b>Installation Instructions</b> <a href="#">FL21135_R5_II_(j)_Inst_21135.9.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135_R5_AE_(j)_Eval_21135.9.pdf</a> Created by Independent Third Party: Yes
21135.10	j. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
	<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 21135.10 for Design Pressure Ratings, any 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.)	<b>Installation Instructions</b> <a href="#">FL21135_R5_II_(j)_Inst_21135.10.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135_R5_AE_(j)_Eval_21135.10.pdf</a> Created by Independent Third Party: Yes

21135.11	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)
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: N/A</b> <b>Other:</b> See INST 21135.11 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.11.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.11.pdf</a> Created by Independent Third Party: Yes
21135.12	l. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: N/A</b> <b>Other:</b> See INST 21135.12 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.12.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.12.pdf</a> 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)
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: N/A</b> <b>Other:</b> See INST 21135.13 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.13.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.13.pdf</a> Created by Independent Third Party: Yes
21135.14	n. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Glazed Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: N/A</b> <b>Other:</b> See INST 21135.14 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.14.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.14.pdf</a> Created by Independent Third Party: Yes
21135.15	o. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Glazed Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: N/A</b> <b>Other:</b> See INST 21135.15 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135 R5 II (j) Inst 21135.15.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135 R5 AE (j) Eval 21135.15.pdf</a> Created by Independent Third Party: Yes
21135.16	p. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Glazed Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)

<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: N/A</b> <b>Other:</b> See INST 21135.16 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135_R5_II_(j)_Inst_21135.16.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135_R5_AE_(j)_Eval_21135.16.pdf</a> Created by Independent Third Party: Yes
21135.17	q. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Glazed Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: N/A</b> <b>Other:</b> See INST 21135.17 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135_R5_II_(j)_Inst_21135.17.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135_R5_AE_(j)_Eval_21135.17.pdf</a> Created by Independent Third Party: Yes
21135.18	r. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Composite Edge Fiberglass Door Panels with Vented Sidelite(s) (Inswing; XX, XXX or XXXX configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ: No</b> <b>Approved for use outside HVHZ: Yes</b> <b>Impact Resistant: No</b> <b>Design Pressure: N/A</b> <b>Other:</b> See INST 21135.18 for Design Pressure Ratings, any 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.)		<b>Installation Instructions</b> <a href="#">FL21135_R5_II_(j)_Inst_21135.18.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21135_R5_AE_(j)_Eval_21135.18.pdf</a> Created by Independent Third Party: Yes

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

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**Credit Card  
Safe**



# THERMA-TRU<sup>®</sup>

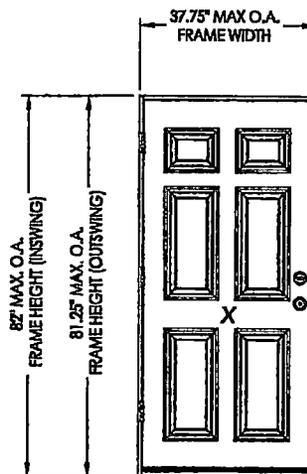
## Benchmark<sup>®</sup> Doors

### WOOD EDGE OPAQUE FIBERGLASS SINGLE DOOR INSWING/OUTSWING "NON-IMPACT"

#### GENERAL NOTES

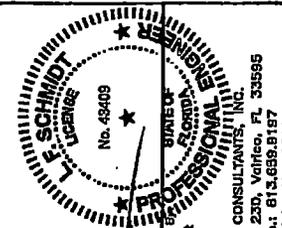
- This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond 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 painted within six months of installation.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Elevations
4	Horizontal & 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	Components
11	Bill of Materials



CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	Latch & Deadbolt	+67.0	-67.0	+67.0	-67.0

See Sheet 3 for Hardware Specifications



July 20, 2020

Documents Prepared by  
Lyndon F. Schmidt  
P.E. No. 43408

PRODUCT: THERMA-TRU FIBERGLASS DOOR  
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
3	7/16/20	UPDATE TO 7th ED (2020) FBC
2	10/09/18	REV. DOOR PANEL OPTION NOTE
1	12/09/17	RECESSED PANEL NOTATION

DATE: 07/07/17

SCALE: N.T.S.

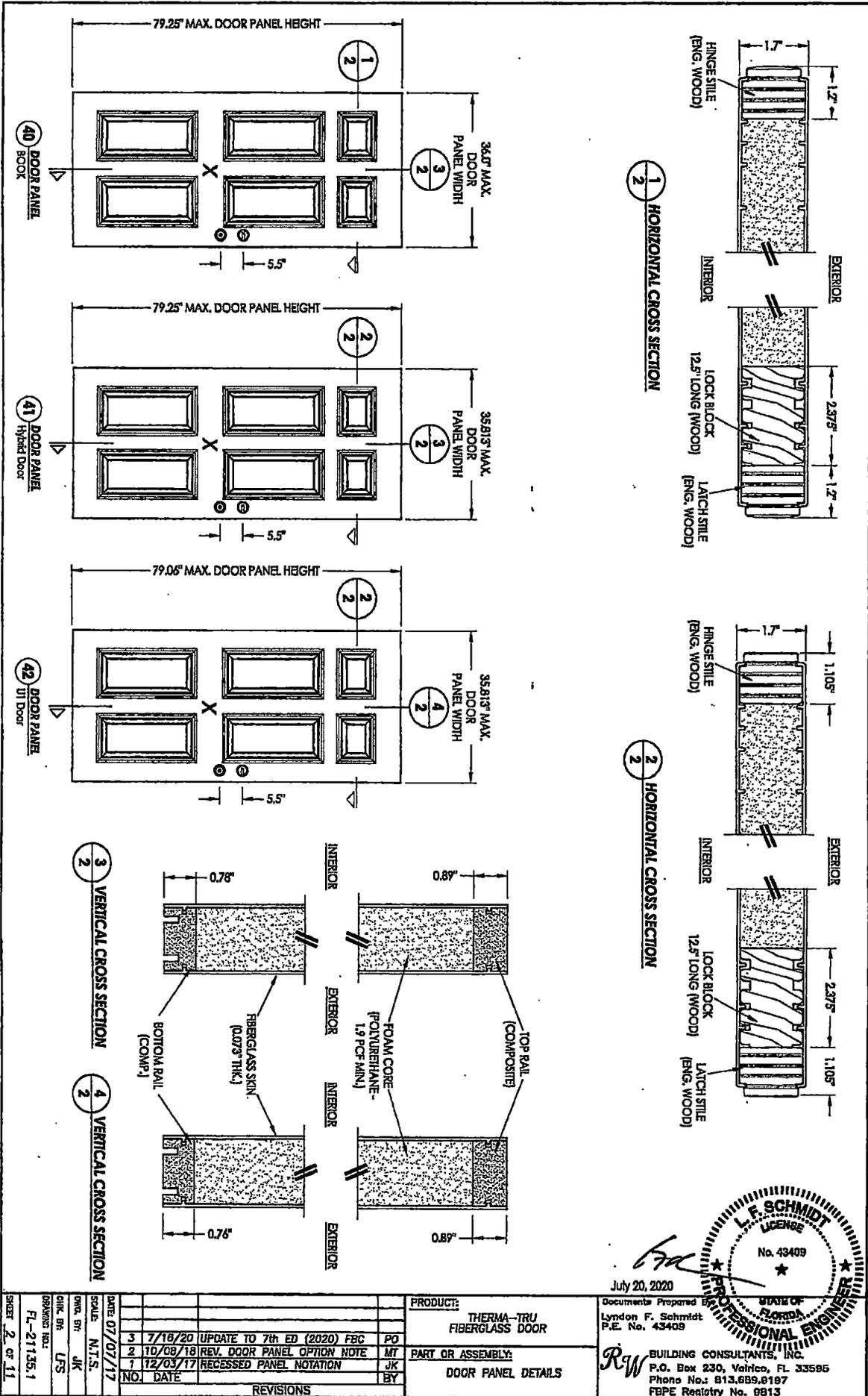
DRW. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21135.1

SHEET 1 OF 11

R.W. BUILDING CONSULTANTS, INC.  
P.O. Box 230, Volusia, FL 32895  
Phone No.: 813.689.8187  
FBPE Registry No. 9813



July 20, 2020

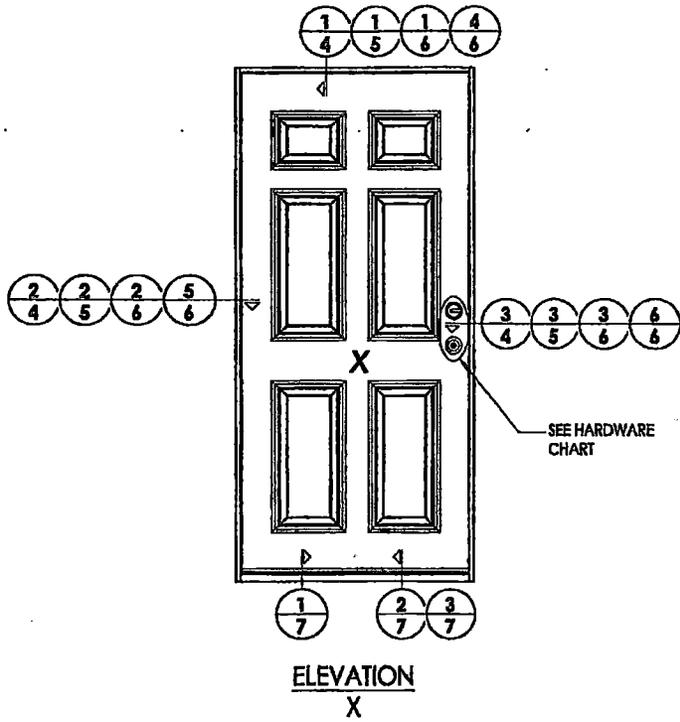
Documents Prepared By  
Lyndon F. Schmidt  
P.E. No. 43409

STATE OF FLORIDA  
L.F. SCHMIDT  
LICENSE  
No. 43409  
PROFESSIONAL ENGINEER

R.W. BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.689.6187  
FBPE Registry No. 0813

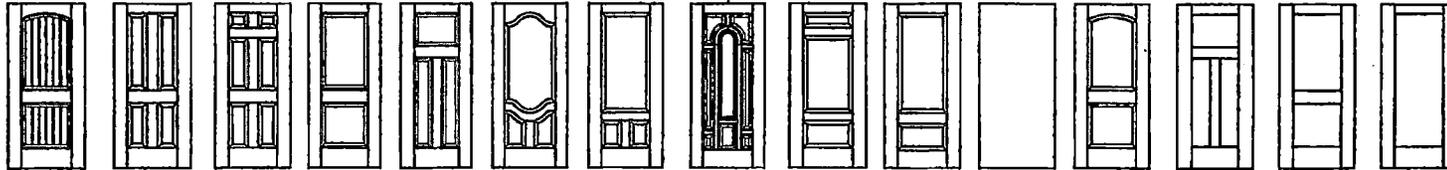
NO.	DATE	REVISIONS	BY
3	7/18/20	UPDATE TO 7th ED (2020) FBC	PO
2	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
1	12/03/17	RECESSED PANEL NOTATION	JK

PRODUCT: THERMA-TRU FIBERGLASS DOOR  
PART OR ASSEMBLY: DOOR PANEL DETAILS



SEE HARDWARE CHART

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51 DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)



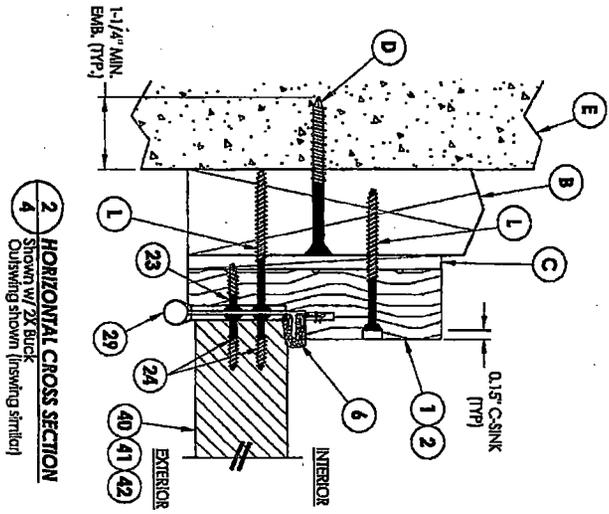
**Benchmark Door Panel Options**

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

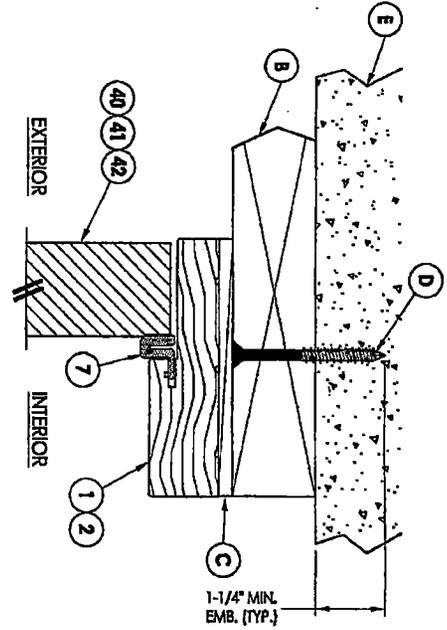
July 20, 2020  
 Documents Prepared by  
 Lyndon F. Schmidt  
 P.E. No. 43408

**PROFESSIONAL ENGINEER**  
 R.W. BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9187  
 FBPE Registry No. 9813

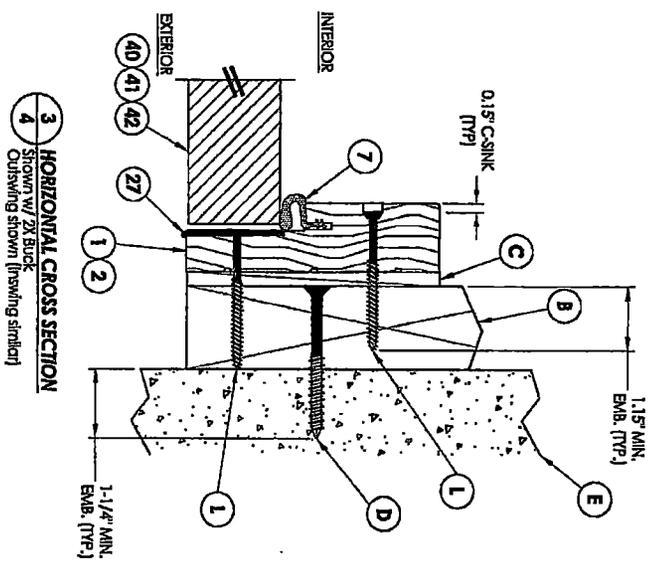
PRODUCT:	Therma-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:	ELEVATIONS	
NO.	DATE	BY
3	7/19/20	JFK
2	10/09/18	MT
1	12/03/17	JFK
REVISIONS		
DATE:	07/07/17	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-21135.1	
SHEET:	3 of 11	



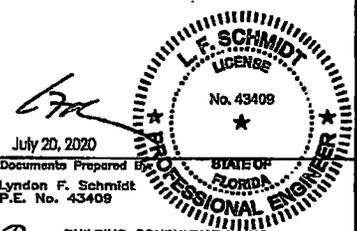
**2 HORIZONTAL CROSS SECTION**  
 Shown w/ 2X Buck  
 Outswing shown (inswing similar)



**1 VERTICAL CROSS SECTION**  
 Shown w/ 2X Buck  
 Outswing shown (inswing similar)



**3 HORIZONTAL CROSS SECTION**  
 Shown w/ 2X Buck  
 Outswing shown (inswing similar)



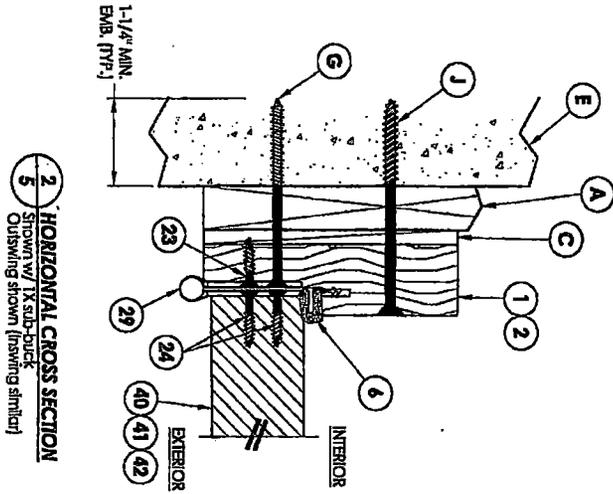
NO.	DATE	REVISIONS	BY
3	7/16/20	UPDATE TO 7th ED (2020) FBC	PO
2	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
1	12/03/17	RECESSED PANEL NOTATION	JK

PRODUCT:		THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)

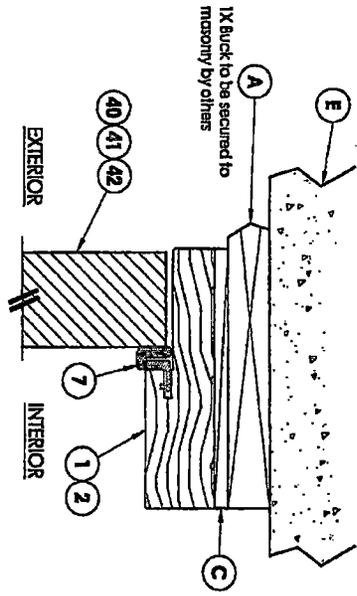
Documents Prepared By  
 Lyndon F. Schmidt  
 P.E. No. 43409

July 20, 2020

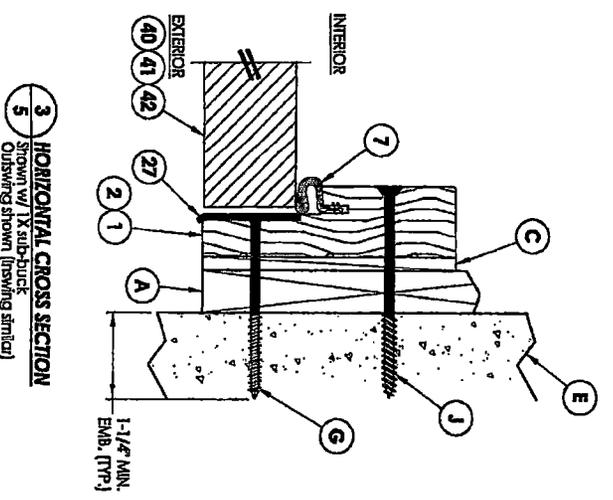
*RW* BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33586  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813



**2 HORIZONTAL CROSS SECTION**  
 Shown w/ 1X sub-buck  
 Outswing shown (finishing similar)



**1 VERTICAL CROSS SECTION**  
 Shown w/ 1X sub-buck  
 Outswing shown (finishing similar)



**3 HORIZONTAL CROSS SECTION**  
 Shown w/ 1X sub-buck  
 Outswing shown (finishing similar)

July 20, 2020

Documents Prepared By  
 Lyndon F. Schmidt  
 P.E. No. 43409

**L.F. SCHMIDT**  
 LICENSE  
 No. 43409  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

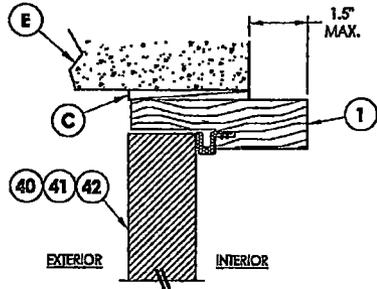
**R.W.** BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33596  
 Phone No.: 813.659.8187  
 FBPE Registry No. 9813

REVISIONS				DATE	BY	DESCRIPTION
3	7/16/20	UPDATE TO 7th ED (2020) FBG	PO			
2	10/08/18	REV. DOOR PANEL OPTION NOTE	MT			
1	12/03/17	RECESSED PANEL NOTATION	JK			
NO.	DATE					

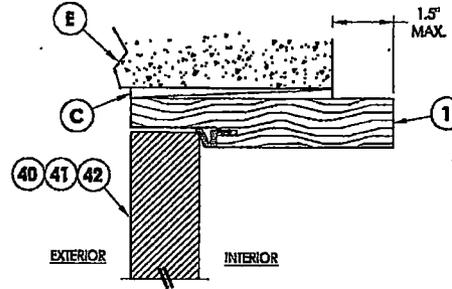
PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)

DATE: 07/07/17  
 SCALE: N.T.S.  
 DRW. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-21135.1  
 SHEET 5 of 11

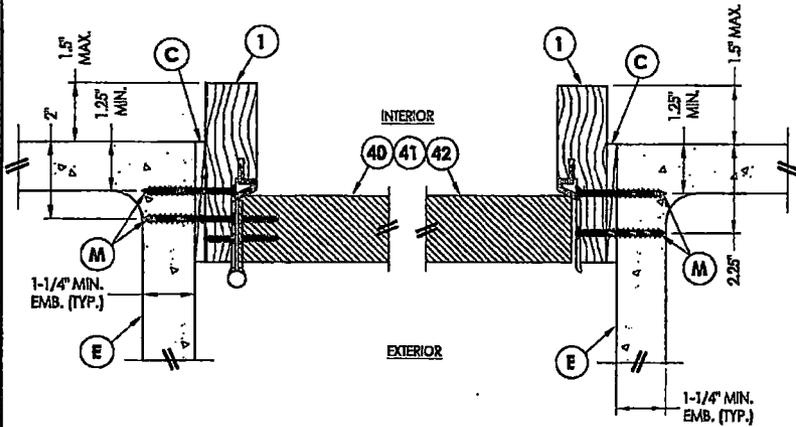


**1** VERTICAL CROSS SECTION  
**6** Shown Direct to Masonry  
 Outswing only w/ 4-9/16" jamb



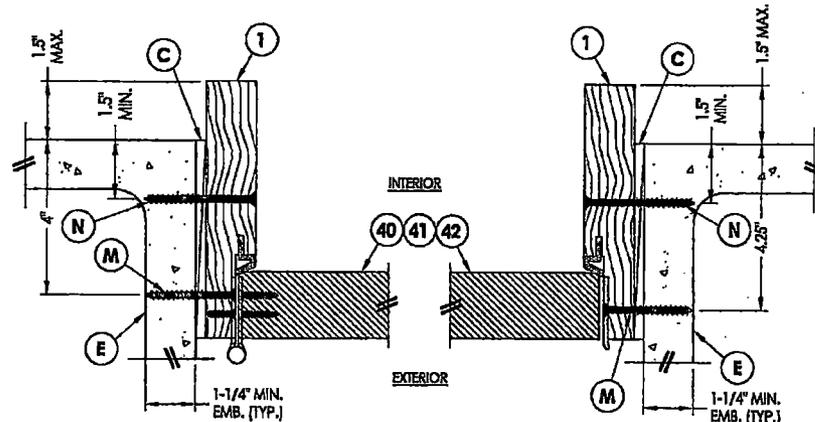
**4** VERTICAL CROSS SECTION  
**6** Shown Direct to Masonry  
 Outswing only w/ 6-9/16" jamb

**DIRECT TO MASONRY MAX. DESIGN PRESSURE:**  
 w/ STANDARD STRIKE = ± 55 PSF  
 w/ SECURITY STRIKE = ± 65 PSF



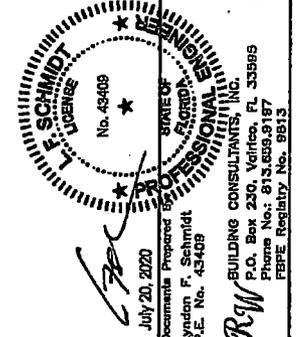
**2** HORIZONTAL CROSS SECTION  
**6** Shown Direct to Masonry  
 Outswing only w/ 4-9/16" jamb

**3** HORIZONTAL CROSS SECTION  
**6** Shown Direct to Masonry  
 Outswing only w/ 4-9/16" jamb



**5** HORIZONTAL CROSS SECTION  
**6** Shown Direct to Masonry  
 Outswing only w/ 6-9/16" jamb

**6** HORIZONTAL CROSS SECTION  
**6** Shown Direct to Masonry  
 Outswing only w/ 6-9/16" jamb

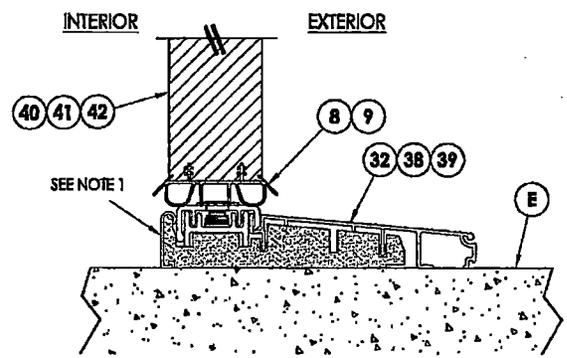


Documents Prepared by  
 July 20, 2020  
 Stephen F. Schmidt  
 P.E. No. 43408  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Venice, FL 33595  
 Phone No.: 813.666.9187  
 FEPE Registry No. 28215

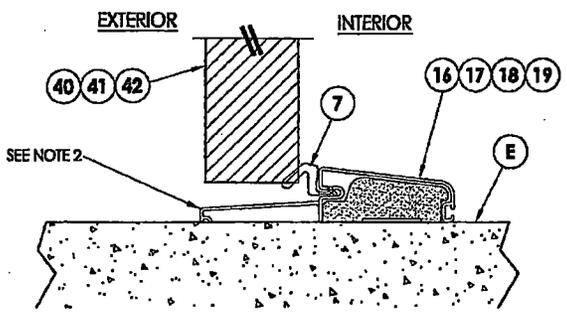
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)	
DATE: 07/07/17	SCALE: N.T.S.	NO.	DATE
3 7/18/20 UPDATE TO 7th ED. (2020) FBC	10		
2 10/08/18 REV. DOOR PANEL OPTION NOTE	11		
1 12/03/17 RECESSED PANEL NOTATION	12		
DRAWING NO: FL-21135.1		REVISIONS	
SHEET 6 of 11			

**Notes:**

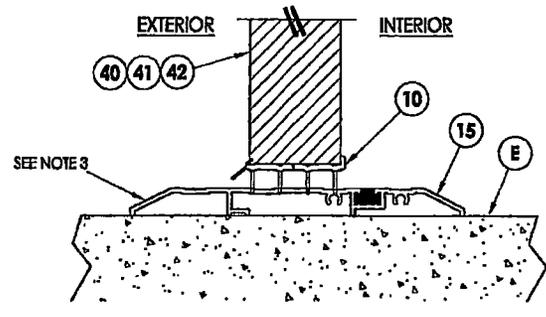
1. Sill Item #'s 32, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws or (3) 2.5" staples at each end.
2. Sill Item #'s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
3. Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS screws at each end.



**1**  
**7** VERTICAL CROSS SECTION  
Inswing Sill



**2**  
**7** VERTICAL CROSS SECTION  
Outswing Sill



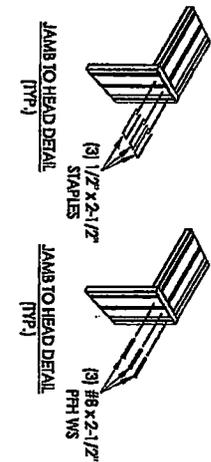
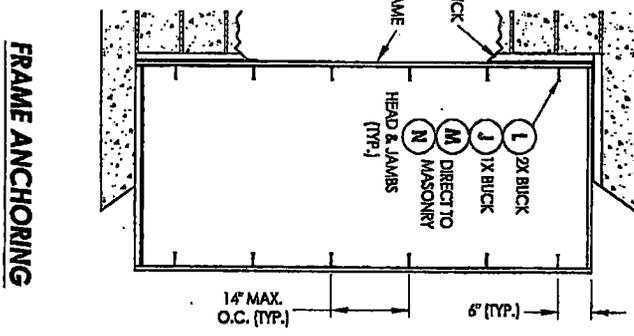
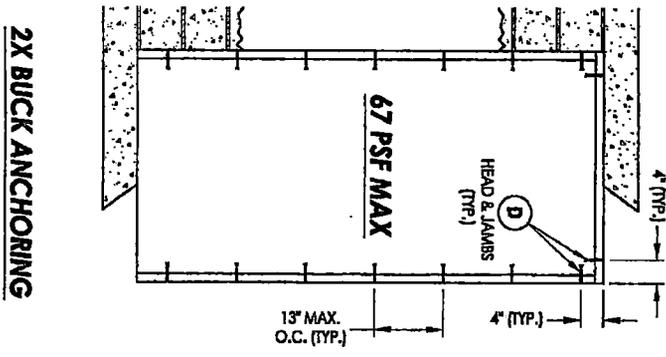
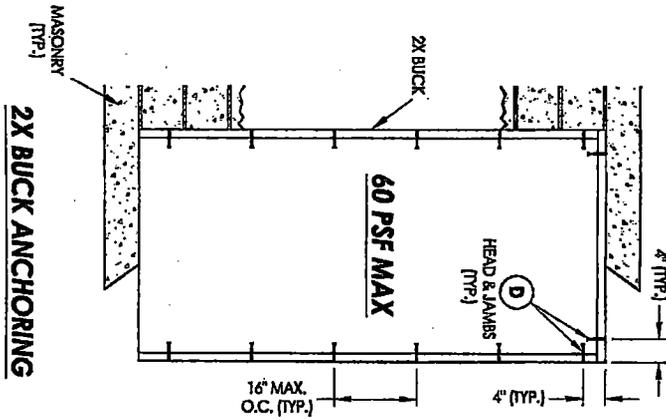
**3**  
**7** VERTICAL CROSS SECTION  
Public Access Sill

July 20, 2020

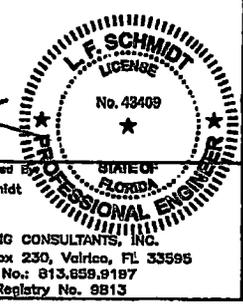
Documents Prepared by: Lyndon F. Schmidt, P.E. No. 43409

R.W. BUILDING CONSULTANTS, INC.  
P.O. Box 230, Vero Beach, FL 33595  
Phone No.: 813.859.8187  
FBPE Registry No. 9813

PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)	
	REVISIONS
	NO. DATE
	BY
	JK
	MT
	PO
	FRC
	7/19/20 UPDATE TO 7th ED (2020) FRC
	2 10/08/18 REV. DOOR PANEL OPTION NOTE
	1 12/03/17 RECESSED PANEL NOTATION
DATE: 07/07/17	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-21135.1	
SHEET 7 OF 11	



July 20, 2020

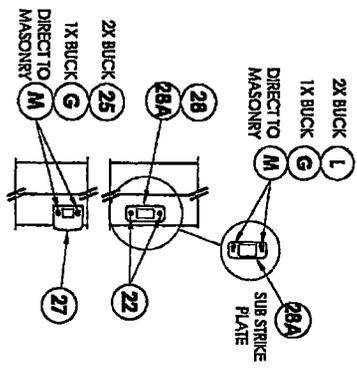
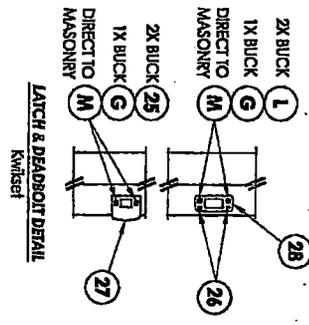


NO.	DATE	REVISIONS	BY
3	7/16/20	UPDATE TO 7th ED (2020) FBC	PO
2	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
1	12/03/17	RECESSED PANEL NOTATION	JK

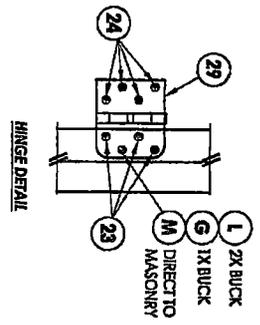
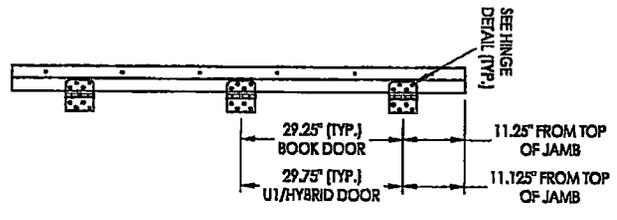
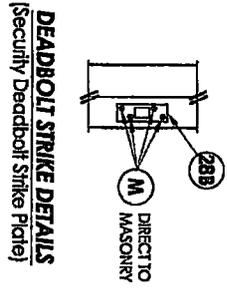
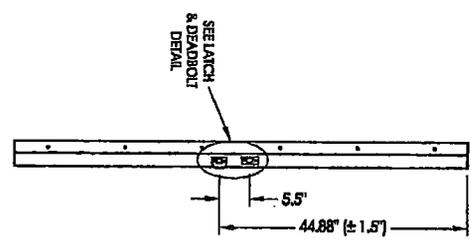
PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	BUCK & FRAME ANCHORING

Documents Prepared By  
Lyndon F. Schmidt  
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33596  
Phone No.: 813.658.9187  
FBPE Registry No. 9813



**LATCH & DEADBOLT STRIKE DETAILS**  
(Standard Deadbolt Strike Plate)



July 20, 2020

Documents Prepared By  
Lyndon F. Schmidt  
P.E. No. 43409

STATE OF FLORIDA  
**PROFESSIONAL ENGINEER**  
No. 43409

BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33599  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

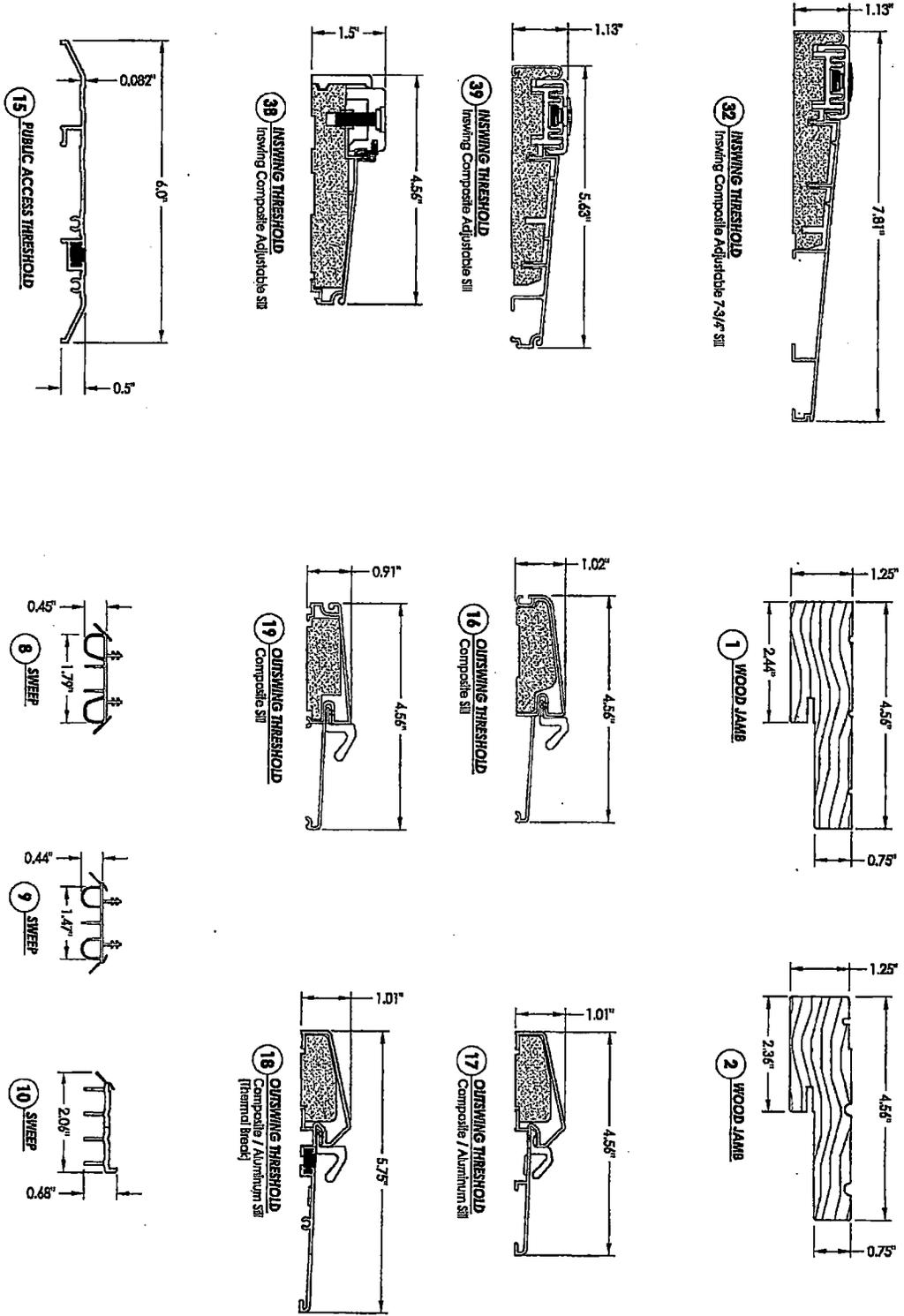
REVISIONS		DATE	NO.	BY	DESCRIPTION
3	7/16/20			PO	UPDATE TO 7th ED (2020) FBC
2	10/08/18			MT	REV. DOOR PANEL OPTION NOTE
1	12/03/17			JK	RECESSED PANEL NOTATION

DATE	07/07/17
SCALE	N.T.S.
DRAWN BY	JK
CHECK BY	LFS
DRAWING NO.	FL-21135.1
SHEET	9 OF 11

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	HARDWARE DETAILS



July 20, 2020

Documents Prepared By  
Lyndon F. Schmidt  
P.E. No. 43409

**L.F. SCHMIDT**  
LICENSE  
No. 43409  
FLORIDA  
PROFESSIONAL ENGINEER

*RW* BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

REVISIONS				COMPONENTS	
NO.	DATE	DESCRIPTION	BY	PO	MT
3	7/16/20	UPDATE TO 7th ED (2020) FBC	JK		
2	10/06/18	REV. DOOR PANEL OPTION NOTE	JK		
1	12/03/17	RECESSED PANEL NOTATION	JK		

DATE	07/07/17	SCALE	N.T.S.
DWG. BY	JK	CHK. BY	LFS
DRAWING NO.	FL-21135.1		
SHEET	10	OF	11

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE (STANDARD)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			28B	DEADBOLT STRIKE PLATE (SECURTY)	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	29	4" X 4" HINGE	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	38	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	39	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	40	DOOR PANEL (BOOK)	-
1	JAMB (FINGER JOINT PINE)	WOOD	41	DOOR PANEL (HYBRID)	-
2	JAMB (FINGER JOINT PINE)	WOOD	42	DOOR PANEL (U1)	-
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			
24	#10 x 1" PFH WOOD SCREW	STEEL			

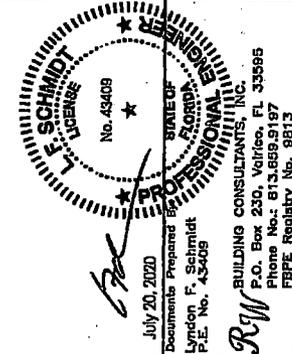
**CONCRETE ANCHOR NOTES:**

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- 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.
- 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"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"

**WOOD SCREW INSTALLATION NOTES:**

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



July 20, 2020  
 Documents Prepared By: Lyndon F. Schmidt  
 P.E. No. 43409

STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 No. 43409

BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FEPE Registry No. 9813

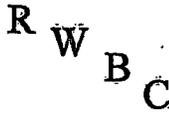
PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS

NO.	DATE	BY	REVISIONS
3	7/19/20	PO	UPDATE TO 7th ED (2020) FBC
2	10/08/18	MT	REV. DOOR PANEL OPTION NOTE
1	12/05/17	JK	RECESSED PANEL NOTATION

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

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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.

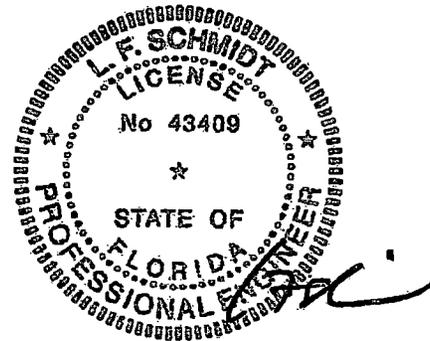
RW Building Consultants and Lyndon F. Schmidt, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

**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 stucco.
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. <b>Test Report No.</b><br>ETC-01-741-10702.0<br>TEL 01460145<br>TEL 01461612   | <b>Test Standard</b><br>TAS 202 (94)<br>ASTM E330 (02)<br>ASTM E330 (02) / E331 (00) | <b>Testing Laboratory</b><br>ETC Laboratories<br>Testing Evaluation Lab., Inc.<br>Testing Evaluation Lab., Inc. | <b>Signed by</b><br>Wendell W. Haney, P.E.<br>V.K. Wright<br>V.K. Wright |
| 2. <b>Drawing No.</b><br>No. FL-21135.1   | <b>Prepared by</b><br>RW Building Consultants, Inc. (# 9813)                         |   | <b>Signed &amp; Sealed by</b><br>Lyndon F. Schmidt, P.E.                 |
| 3. <b>Calculations.</b><br>Anchoring  | <b>Prepared by</b><br>RW Building Consultants, Inc. (# 9813)                         |   | <b>Signed &amp; Sealed by</b><br>Lyndon F. Schmidt, P.E.                 |
| 4. <b>Quality Assurance</b><br>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. |  |   |  |



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