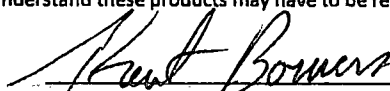


As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your 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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	DIERMA-TRU	DIERMA-TRU BENCHMARK DOORS	21135.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	P&T INDUSTRIES	SHISSOO IMPACT	239.2
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	MID F METAL	29g9 MR WALL PANEL	31397.1
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL	MID F METAL	29g MR STRUCTURAL	23490.1
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER UNDERLAYMENT	LEVI'S BUILDING COMP	ROLOSHIERO PRIMESA	41626-R1
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

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.

 8/6/24
Contractor or Owner Signature

NOTES: _____



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Product Approval
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 Application Detail



FL #	FL31397-R2
Application Type	Revision
Code Version	2023
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	Steven M. Ulrich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	FL31397_R2_COI_Letter of Certification.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1709.2
Product Approval Method	Method 2 Option B

Date Submitted	09/10/2023
Date Validated	09/13/2023
Date Pending FBC Approval	09/17/2023
Date Approved	12/13/2023

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
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-105psf Other: See evaluation report for limits of use.		Installation Instructions FL31397_R2_IL_29 Ga. MFMRS Multi-Rib Wall Panel.pdf Verified By: Johnathan E. Green, P.E. 88223 Created by Independent Third Party: Yes Evaluation Reports FL31397_R2_AE_29 Ga. MFMRS Multi-Rib Wall Panel.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



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352-742-7070 • Toll Free: 866-479-8080 • Fax 352-742-7075
www.mfmrs.com • 28328 County Road 561, Tavares, Florida 32778

Product Evaluation Report
MID FLORIDA METAL ROOFING SUPPLY, INC.

Minimum 29 Ga. MFMRS Multi-Rib Wall Panel Over 2x4 Wood Girts

Florida Product Approval # 31397.1 R2

Florida Building Code 2023

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

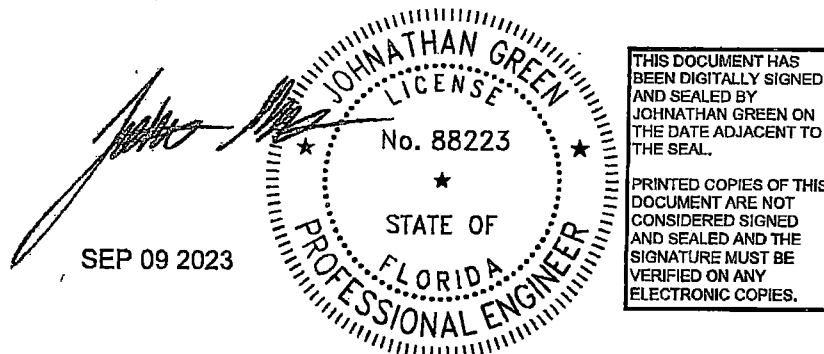
Engineer Evaluator:

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

Contents:

Evaluation Report: Page 1 - 3

Installation Detail: Page 4





352-742-7070 • Toll Free: 866-479-8080 • Fax 352-742-7075
www.mfmrs.com • 28328 County Road 561, Tavares, Florida 32778

- Compliance Statement:** The product as described in this report has demonstrated compliance with the Florida Building Code 2023, 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: Minimum 29 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2023.
Yield Strength: Min. 80.0 ksi.
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2023.
- Panel Dimension(s):** Thickness: 0.0145" min.
Width: 36" maximum coverage
Rib Height: 3/4" major rib at 9" O.C.
- Panel Fastener:** #12 x 1 1/2" WoodZac or WoodZip w/ sealing washer or approved equal.
3/4"-14 x 7/8" HWH SD1 w/ EPDM washer through panel side laps at 12" O.C.
Corrosion Resistance: Per Florida Building Code 2023.
- Substrate Description:** Minimum #2 SYP 2x4 wood girts spaced a maximum 24" O.C. Framing must be designed in accordance w/ Florida Building Code 2023.

Allowable Design Pressures:

Table "A"

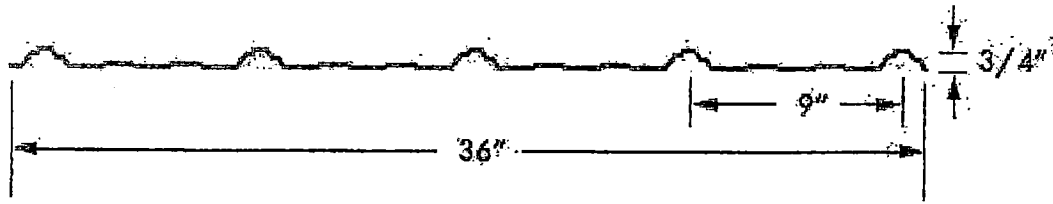
Maximum Design Pressure:	-105.0 psf
Fastener Pattern:	9"-9"-9"-6"-3"
Fastener Spacing:	24" O.C.

*Design Pressure Includes a Safety Factor = 1.5.

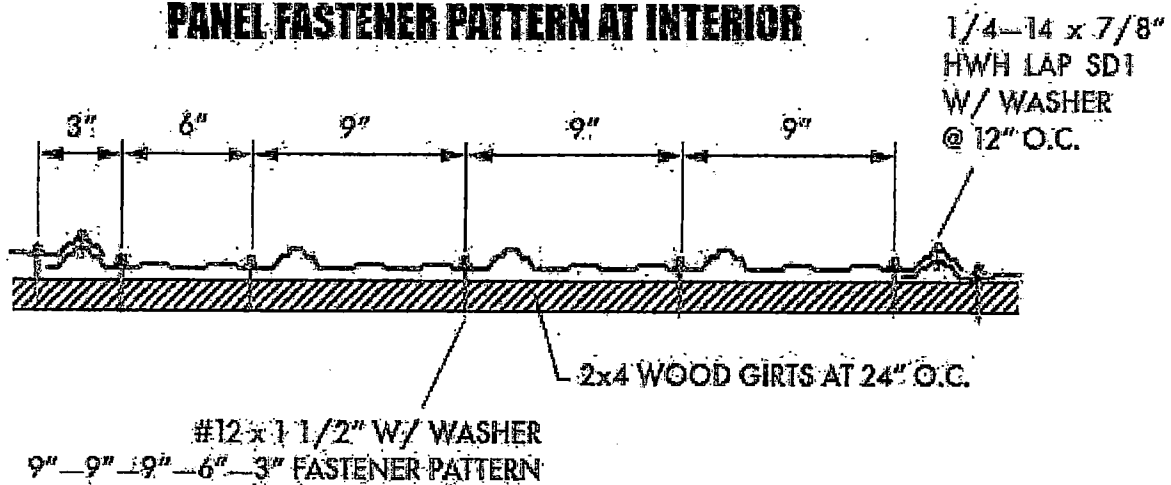


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www.mfmrs.com • 28328 County Road 561, Tavares, Florida 32778

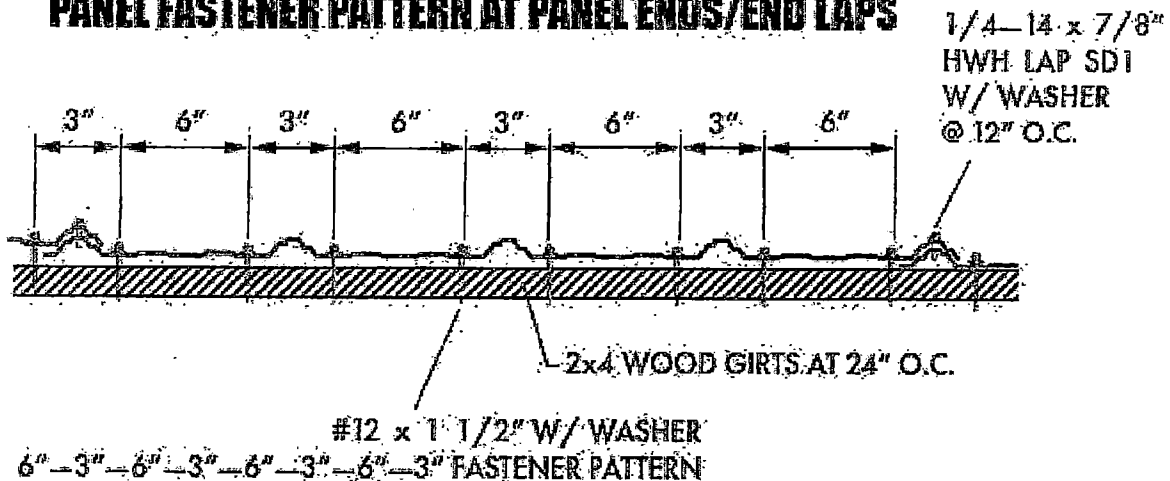
Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1709.2.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, as relates to Rule 61G20-3.
Performance Standards:	<p>The product described herein has demonstrated compliance with:</p> <ul style="list-style-type: none">▪ ASTM E 1592-05 (2017) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference.
Reference Data:	<ol style="list-style-type: none">1. ASTM E 1592-01 PRI Construction Materials Technologies Report No. FAE-008-02-012. 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 (2017) 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 manufacturers 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 2023 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 2023 Chapter 22 for steel, and Chapter 16 for structural loading.



PANEL FASTENER PATTERN AT INTERIOR



PANEL FASTENER PATTERN AT PANEL ENDS/END LAPS





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Product Approval
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FL #	FL23490-R4						
Application Type	Revision						
Code Version	2023						
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. Ulrich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received						
Certificate of Independence	FL23490_R4_COI_Letter of Certification.pdf						
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E1592</td> <td>2005</td> </tr> <tr> <td>FM 4471</td> <td>1992</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM E1592	2005	FM 4471	1992
<u>Standard</u>	<u>Year</u>						
ASTM E1592	2005						
FM 4471	1992						
Equivalence of Product Standards Certified By							
Sections from the Code							

Product Approval Method

Method 1 Option D

Date Submitted 09/10/2023
 Date Validated 09/13/2023
 Date Pending FBC Approval 09/17/2023
 Date Approved 12/13/2023

Summary of Products

FL #	Model, Number or Name	Description
23490.1	Multi-Rib Structural	29 Ga. Through-Fastened Structural Roof Panels Over Minimum 2x4 Purlins
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-105.0psf Other:		Installation Instructions FL23490_R4_II_29 Ga. MFMRS Multi-Rib Structural Roof.pdf Verified By: Johnathan E. Green, P.E. 88223 Created by Independent Third Party: Yes Evaluation Reports FL23490_R4_AE_29 Ga. MFMRS Multi-Rib Structural Roof.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



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 R4

Florida Building Code 2023

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:

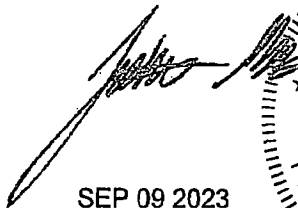
Johnathan Green, P.E. #88223

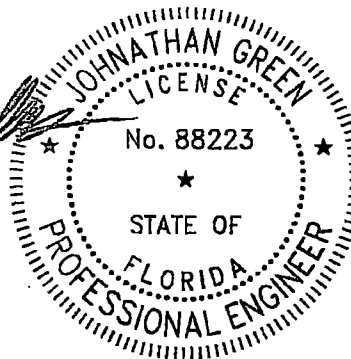
Florida Evaluation ANE ID: 12901

Contents:

Evaluation Report: Page 1 - 3

Installation Detail: Page 4


SEP 09 2023



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

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DOCUMENT ARE NOT
CONSIDERED SIGNED
AND SEALED AND THE
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VERIFIED ON ANY
ELECTRONIC COPIES.

Compliance Statement:	The product as described in this report has demonstrated compliance with the Florida Building Code 2023, 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 2023 Section 1507.4.3. Yield Strength: Min. 80.0 ksi Corrosion Resistance: Panel Material shall comply with Florida Building Code 2023, Section 1507.4.3.
Panel Dimension(s):	Thickness: 0.0145" min. Width: 36" maximum coverage Rib Height: ¾" major rib at 9" O.C.
Panel Fastener:	#12 x 1 1/2" WoodZac or WoodZip w/ sealing washer or approved equal. ¾-14 x 7/8" HWH SD1 w/ EPDM washer through panel side laps at 12" O.C. Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.
Substrate Description:	Min. 2x4 No. 2 SYP wood purlins at 24" O.C. complying with 2023 Florida Building Code. Framing must be designed in accordance w/ Florida Building Code 2023.

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

Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, 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 2023, as relates to Rule 61G20-3.
Performance Standards:	<p>The product described herein has demonstrated compliance with:</p> <ul style="list-style-type: none">▪ ASTM E 1592-05 (2017) 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:	<ol style="list-style-type: none">1. ASTM E 1592-01 PRI Construction Materials technologies LLC Report No. FAE-008-02-012. FM 4471-92, Section 5.4 Foot Traffic Resistance Test Force Engineering & Testing, Inc. Report No. 194-0134T-11A3. 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 (2017) 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.
Minimum Slope Range:	Minimum Slope shall comply with Florida Building Code 2023, 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 manufacturers 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 2023 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 2023 Chapter 23 for wood, and Chapter 16 for structural loading.



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FL #	FL239-R29				
Application Type	Revision				
Code Version	2023				
Application Status	Approved				
	*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.				
Comments					
Archived	<input type="checkbox"/>				
Product Manufacturer	PGT Industries				
Address/Phone/Email	1070 Technology Drive North Venice, FL 34275 (941) 486-0100 Ext 21140 jrosowski@pgtindustries.com				
Authorized Signature	Jens Rosowski jrosowski@pgtindustries.com				
Technical Representative	Lynn Miller, P.E.				
Address/Phone/Email	1070 Technology Dr N Venice, FL 34275 (941) 486-0100 Ext 21142 lmiller@pgtindustries.com				
Quality Assurance Representative					
Address/Phone/Email					
Category	Windows				
Subcategory	Single Hung				
Compliance Method	Certification Mark or Listing				
Certification Agency	Miami-Dade BCCO - CER				
Validated By	Steven M. Ulrich, PE				
	<input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received				
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>TAS 201, 202, 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	TAS 201, 202, 203	1994
<u>Standard</u>	<u>Year</u>				
TAS 201, 202, 203	1994				
Equivalence of Product Standards					
Certified By					
Product Approval Method	Method 1 Option A				
Date Submitted	08/10/2023				
Date Validated	08/20/2023				

Date Pending FBC Approval

Date Approved

08/24/2023

Summary of Products

FL #	Model, Number or Name	Description
239.1	SH5400 (Non-Impact)	Vinyl Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL239 R29 C CAC 23-0707.13.pdf Quality Assurance Contract Expiration Date 07/30/2025 Installation Instructions FL239 R29 II 23-0707.13.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
239.2	SH5500 (Large Missile Impact)	Vinyl Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL239 R29 C CAC 23-0707.12.pdf Quality Assurance Contract Expiration Date 07/30/2025 Installation Instructions FL239 R29 II 23-0707.12.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
239.3	SH7600 (Non-Impact)	Aluminum Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL239 R29 C CAC 23-0707.11.pdf Quality Assurance Contract Expiration Date 08/23/2028 Installation Instructions FL239 R29 II 23-0707.11.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
239.4	SH7700 (Large Missile Impact)	Aluminum Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see Miami-Dade County Notice of Acceptance (NOA) for product performance information, anchorage details, and anchor type, size, and spacing information.		Certification Agency Certificate FL239 R29 C CAC 23-0707.10.pdf Quality Assurance Contract Expiration Date 08/23/2028 Installation Instructions FL239 R29 II 23-0707.10.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

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Product Approval Accepts:

Credit Card
Safe

SECURITY METRICS



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

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 "SH-5500" PVC Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. MD-SH5500 REV D titled "Single Hung Window Installation - LM", sheets 1 through 13 of 13, dated 05/15/15 and last revised on 07/05/23, 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 No. 20-0401.03 and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



Ishaq I. Chanda

NOA No. 23-0707.12
Expiration Date: July 30, 2025
Approval Date: July 27, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 15-0519.05)
2. Drawing No. **MD-SH5500-01** titled "Single Hung Window Installation - LM", sheets 1 through 13 of 13, dated 05/15/15, with revision **B** dated 06/06/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 17-0630.05)

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispac 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 16-0714.03)
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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 5500 PVC single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7964**, dated 11/15/14, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 15-0519.05)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 5500 PVC single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7966**, dated 08/21/14, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 15-0519.05)

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-07071.12
Expiration Date: July 30, 2025
Approval Date: July 27, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 5th Edition (2014), dated 05/15/15 and 08/29/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 15-0519.05)
2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 16-1117.01 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/19/17, expiring on 07/08/19.
2. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 06/25/15, expiring on 07/04/18.
3. Notice of Acceptance No. 16-0712.03 issued to ENERGI Fenestration Solutions USA for their "White Rigid PVC Exterior Extrusions for Windows and Doors" dated 08/10/17, expiring on 02/28/18.
4. Notice of Acceptance No. 16-0712.04 issued to ENERGI Fenestration Solutions USA, Inc. for their "Bronze and Lighter Shades of Cap Coated White Rigid PVC Exterior Extrusions for Windows and Doors" dated 09/15/16, expiring on 04/16/20.
5. Notice of Acceptance No. 16-0712.05 issued to ENERGI Fenestration Solutions USA, Inc. for their "Performance Core Rigid PVC Exterior Extrusions for Windows and Doors" dated 09/15/16, expiring on 04/16/20.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC 5th Edition (2014) and FBC 6th Edition (2017), dated June 22, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 17-0630.05)
2. Statement letter of no financial interest, dated June 22, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 17-0630.05)
3. Proposal No. 16-0125 issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.
(Submitted under NOA No. 16-0714.03)
4. Proposal issued by Product Control, dated 6/26/14 and revised on 8/19/14, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.
(Submitted under NOA No. 15-0519.05)

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0707.12
Expiration Date: July 30, 2025
Approval Date: July 27, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED previous approval

A. DRAWINGS

1. Drawing No. **MD-SH5500-01** titled "Single Hung Window Installation - LM", sheets 1 through 13 of 13, dated 05/15/15, with revision **C** dated 03/10/20, 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 5th Edition (2014)**, dated 05/15/15, 08/29/17 and updated on 03/10/20 to the new **FBC 7th Edition (2020)**, 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).

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0707.12
Expiration Date: July 30, 2025
Approval Date: July 27, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED under previous approval(CONTINUED)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their "Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer" dated 05/23/19, expiring on 05/23/24.
3. Notice of Acceptance No. **18-0122.02**, issued to **ENERGI Fenestration Solutions USA, Inc.**, for their **White Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 03/08/18, expiring on 02/28/23.
4. Notice of Acceptance No. **18-1217.15**, issued to **ENERGI Fenestration Solutions USA, Inc.**, for their **Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 01/17/19, expiring on 04/16/20.
5. Notice of Acceptance No. **18-1217.16**, issued to **ENERGI Fenestration Solutions USA, Inc.**, for their **Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 01/17/19, expiring on 02/04/21.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and the **FBC 7th 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. **17-0630.05**, issued to **PGT Industries, Inc.** for their Series "SH-5500" PVC Single Hung Window - L.M.I. approved on 11/30/17 and expiring on 07/30/20.
2. *Notice of Acceptance No. **16-0714.03**, issued to **PGT Industries, Inc.** for their Series "5500" PVC Single Hung Window - L.M.I. approved on 08/18/16 and expiring on 07/30/20.*

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0707.12
Expiration Date: July 30, 2025
Approval Date: July 27, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **MD-SH5500-01REV D** titled "Single Hung Window Installation - LM", sheets 1 through 13 of 13, dated 05/15/15 and last revised on 07/05/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS (submitted under previous approval)

1. None.

C. CALCULATIONS (submitted under previous approval)

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **18-0725.11** issued to Kuraray America, Inc. for their "Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer" dated 05/23/19, expiring on 05/23/24
3. NOA No. **21-1109.04** issued to Vision Extrusions Group Limited, for their "White Rigid PVC Exterior Extrusions for Windows and Doors", expiring on 09/30/24.
4. NOA No. **22-0104.04** issued to Vision Extrusions Group limited for their "Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors", expiring on 04/16/25.
5. NOA No. **20-0203.04** issued to ENERGI Fenestration Solutions USA, Inc. for their "Performance Core Rigid PVC Exterior Extrusions for Windows and Doors" dated 02/27/20, expiring on 04/16/25.

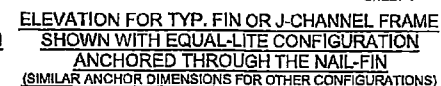
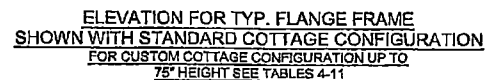
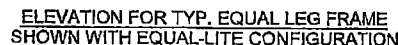
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)** and the **FBC 8th Edition (2023)**, dated 07-05-23, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and the **FBC 7th Edition (2020)**, dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (submitted under previous approval)

G. OTHERS

1. *This NOA revises NOA No. 20-0401.03, expiring on 07/30/25.* *Ishaq I. Chanda*

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0707.12
Expiration Date: July 30, 2025
Approval Date: July 27, 2023



1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30" IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.
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.

<p>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).</p> <p>5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO, USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT.</p> <p>INST. 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.</p>		<p>CODES / STANDARDS USED:</p> <p>• 2023 FLORIDA BUILDING CODE (FBC) 8TH EDITION</p>	<p>GENERAL NOTES:</p>
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7) DESIGN PRESSURES:

- NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
- POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
- 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 AIA.

12) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

- 1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT FROM ASCE 7.
- 2) DETERMINE THE MOST SUITABLE ANCHOR GROUP FROM TABLES 2 OR 3 ACCORDING TO THE INSTALLATION CONDITIONS.
- 3) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLES 4-8, IT MUST BE EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.
- 4) DETERMINE THE ANCHOR QUANTITY FROM TABLES 9-11. VERIFY THE ANCHOR/SUBSTRATE WILL MEET REQUIREMENTS FOR YOUR OPENING'S CONDITION FROM TABLE 2 OR 3, AND THAT ALL MIN. REQUIREMENTS FROM THIS SHEET-SET ARE MET.
- 5) INSTALL AS PER SHEET 3 FOR THRU-FRAME INSTALLATION OR SHEET 4 FOR INTEGRAL FIN INSTALLATION.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0707.12

TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description (Listed from Exterior to Interior)	Design Pressure	
		Table #	Sheet #
5	7/8" Laminated I.G.: 1/8" A Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	4, 5	6
6	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	4, 6	6
7	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	4, 6	6
8	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	4, 6	6
9	7/8" Laminated I.G.: 1/8" A Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	7
10	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	7
11	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	7
12	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	7
13	7/8" Laminated I.G.: 1/8" A Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	7
14	7/8" Laminated I.G.: 1/8" T Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	7
15	7/8" Laminated I.G.: 3/16" A Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	7	7
16	7/8" Laminated I.G.: 3/16" T Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	7	7

TABLE 2: ALLOWABLE ANCHORS THROUGH THE FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
	3/16" steel Ultracon+	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
	1/4" steel Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
C	1/4" steel Creteflex	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3 ksi)	1-3/16"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	1/4" steel Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3.35 ksi)	1"	1-3/4"
D	1/4" steel Ultracon+	Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	1/4" steel Creteflex	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
	1/4" steel Aggre-Gator	Grouted CMU, (ASTM C-90)	2"	2"

GLASS TYPES 5, 7, 9, 11, 13 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30°.

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

* UNROUTED CMU* VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

Frame Types (see Fig B)	Glass Options (see Table 1)	Frame Configs. (see Fig A)	Frame Shapes (see Fig C)	Installation Options that may be used
Flange (#2)	5 - 16	Equal-Lite, Oriel/Proview & Cottage	Square/Rect., Arch-Top & Radius-Top	Through the frame of the window.....
			Into 2X Wood Frame/Buckstrip - sheet 3, option 1Into Concrete/CMU - sheet 3, option 2Through 1X Buckstrip Into Concrete/CMU - sheet 3, option 3Into Metal - sheet 3, option 4
Box / Equal-Leg (#4)	5 - 16	Equal-Lite, Oriel/Proview & Cottage	Square/Rect., Arch-Top & Radius-Top	Through the frame of the window.....
			Into 2X Wood Frame/Buckstrip - sheet 3, option 1Into Concrete/CMU - sheet 3, option 2Through 1X Buckstrip Into Concrete/CMU - sheet 3, option 3Into Metal - sheet 3, option 4
J-Channel (#1)	5 - 8	Equal-Lite, Oriel/Proview & Cottage	Square/Rect., Arch-Top & Radius-Top	Through the integral fin.....
			Into 2X Wood Frame/Buckstrip - sheet 4, option 5Through the frame of the window.....Into 2X Wood Frame/Buckstrip - sheet 4, option 6Into Metal - sheet 4, option 8
Integral Fin (#3)	5 - 8	Equal-Lite, Oriel/Proview & Cottage	Square/Rect., Arch-Top & Radius-Top	Through the integral fin.....
			Into 2X Wood Frame/Buckstrip - sheet 4, option 5Into Metal - sheet 4, option 7Into 2X Wood Frame/Buckstrip - sheet 4, option 6Into Metal - sheet 4, option 8

FIGURE A: FRAME CONFIGURATIONS

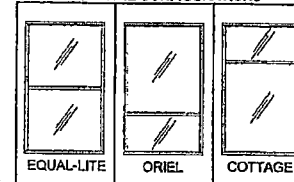
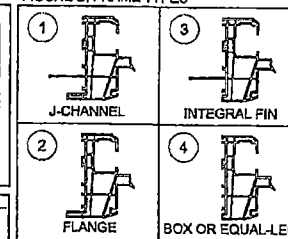


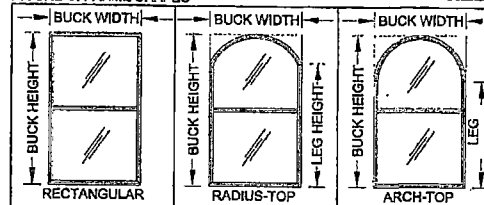
FIGURE B: FRAME TYPES



A = ANNEALED
H = HEAT STRENGTHENED
T = TEMPERED
PVB = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.

SG = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

FIGURE C: FRAME SHAPES



WINDOW SHAPES AS ABOVE OR SIMILAR 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 SHEETS 6-10.

TABLE 3: ALLOWABLE ANCHORS THROUGH THE INTEGRAL FIN

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
E	2-1/2" x .131" Common Nail	P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
	2-1/2" Ring-shank Roofing Nail	P.T. Southern Pine (SG=.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
F	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	3/8"	0.0451" (18 Ga.)
		Steel Stud, Gr. 33*	3/8"	0.050"
		Steel, A36*	3/8"	0.050"
	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.050"
		Steel, A36*	3/8"	0.050"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0707.12

Expiration Date 07/30/2025

By Ishay L. Chana
Miami-Dade Product Control

PGT
Custom Windows and Doors

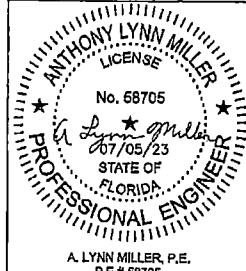
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

(941) 480-1600

REGISTRATION #29298

VINYL SINGLE HUNG WINDOW (LM)	Date	05/15/15
GLASS/ANCHOR/FRAME OPTIONS	By	JENS ROSOWSKI
REMOVED ULTRACONS - LY	Rev Date	07/05/23
SH5500	Sheet	2 OF 13
SH5500-NOA	Rev	D

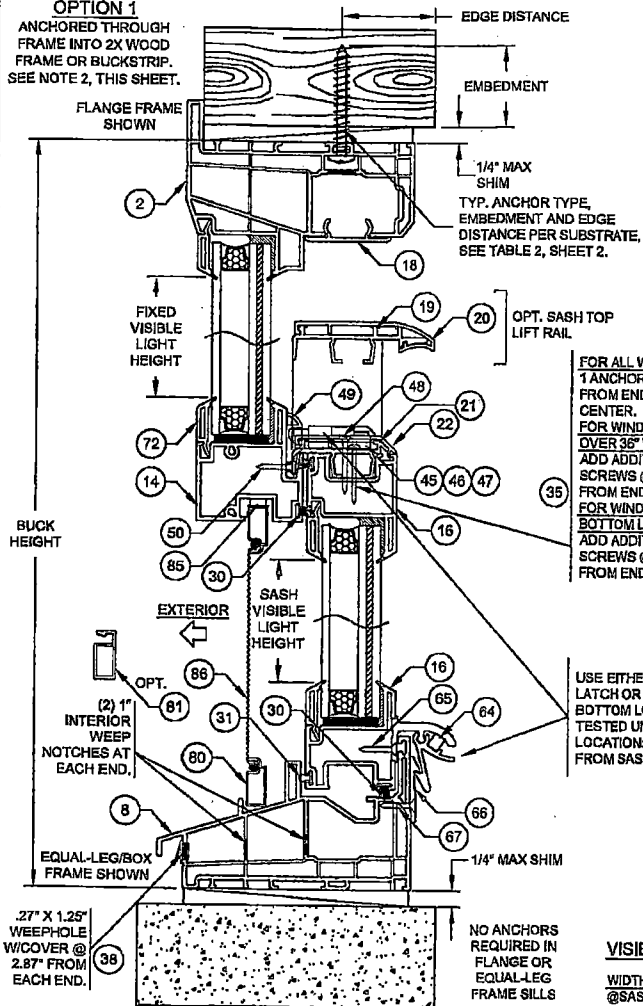


A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

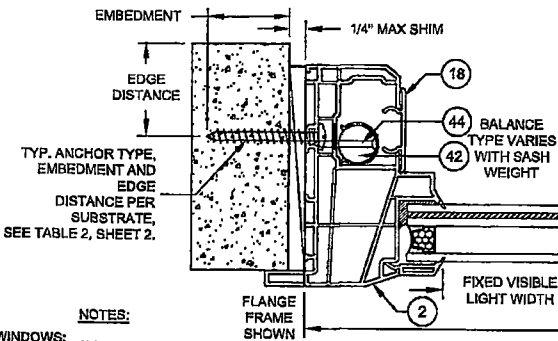
INSTALLATION OPTION 1

ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, THIS SHEET.

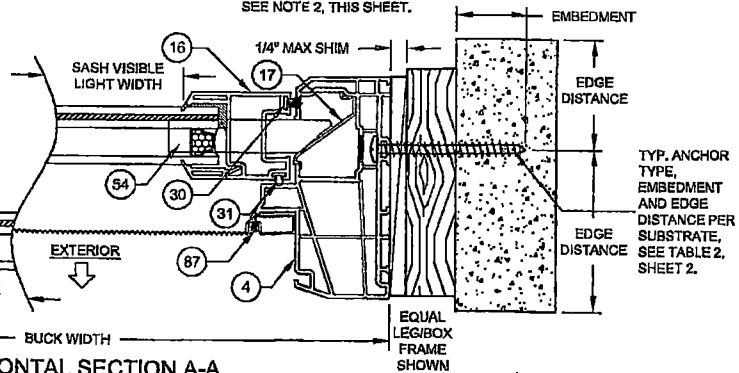


VERTICAL SECTION B-B

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

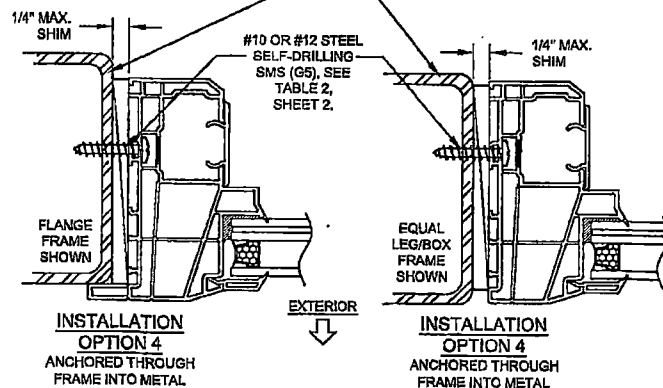


INSTALLATION OPTION 3 ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU. SEE NOTE 2, THIS SHEET.



HORIZONTAL SECTION A-A

DADE APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD.
MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE 2, SHEET 2.



INSTALLATION
OPTION 4
ANCHORED THROUGH
FRAME INTO METAL

INSTALLATION
OPTION 4
ANCHORED THROUGH
FRAME INTO METAL

FOR ALL WINDOWS:
1) ANCHOR @ 3.5"
FROM END AND AT
CENTER.
FOR WINDOWS
OVER 36" WIDE:
ADD ADDITIONAL
SCREWS @ 16-3/8"
FROM END.
FOR WINDOWS WITH
BOTTOM LOCKS:
ADD ADDITIONAL
SCREWS @ 8-3/8"
FROM END.

NOTES:

1) USE ONLY
SUBSTRATE-APPROPRIATE
ANCHORS LISTED ON TABLE 2,
SHEET 2. 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 2,
SHEET 2. 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.

4) ALL ANCHOR HEAD TYPES
ARE ACCEPTABLE.

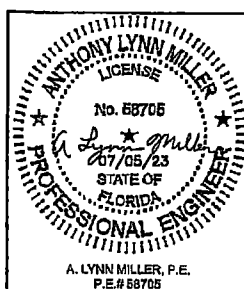
VISIBLE LIGHT FORMULAS

WIDTH
@ SASH: BUCK WIDTH - 6-1/2"
@ FIXED LITE: BUCK WIDTH - 4-3/8"
HEIGHT (EQUAL-LITE)
BUCK HEIGHT/2 - 3-15/16"

NO ANCHORS
REQUIRED IN
FLANGE OR
EQUAL-LEG
FRAME SILLS

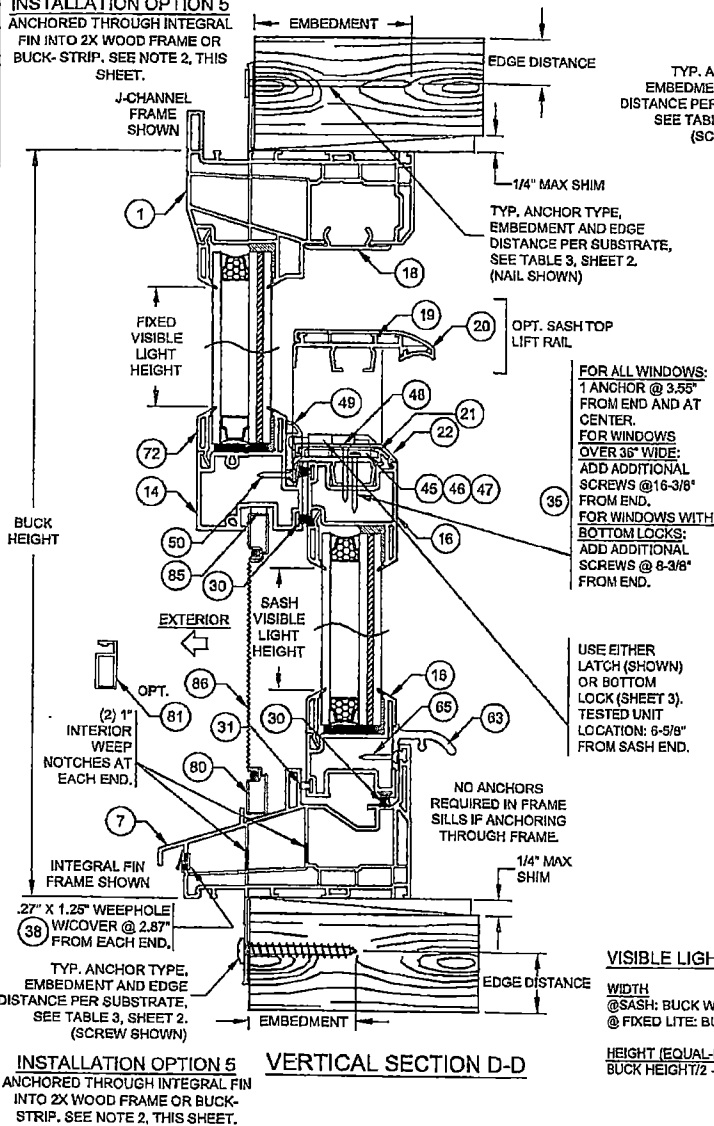
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0707.12
Expiration Date 07/30/2025
By Isheng I. Chah
Miami-Dade Product Control

PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29298	
VINYL SINGLE HUNG WINDOW (LM)		Date	05/15/15
FLANGE & EQUAL-LEG FRAMES		Drawn by	JENS ROSOWSKI
ANCHOR HEAD TYPE NOTE - LY		Rev Date	07/05/23
SH5500	Sheet	3 OF 13	Rev Date
SH5500-NOA		Rev Date	D

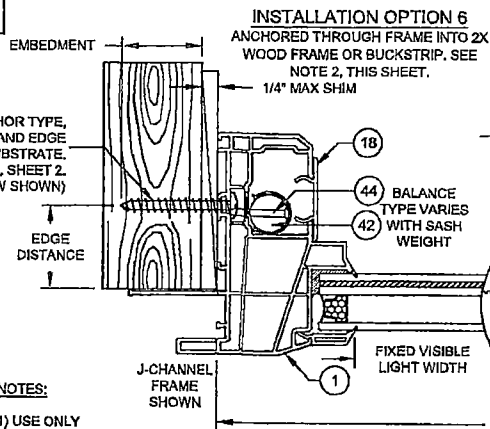


INSTALLATION DETAILS FOR INTEGRAL FIN & J-CHANNEL FRAMES

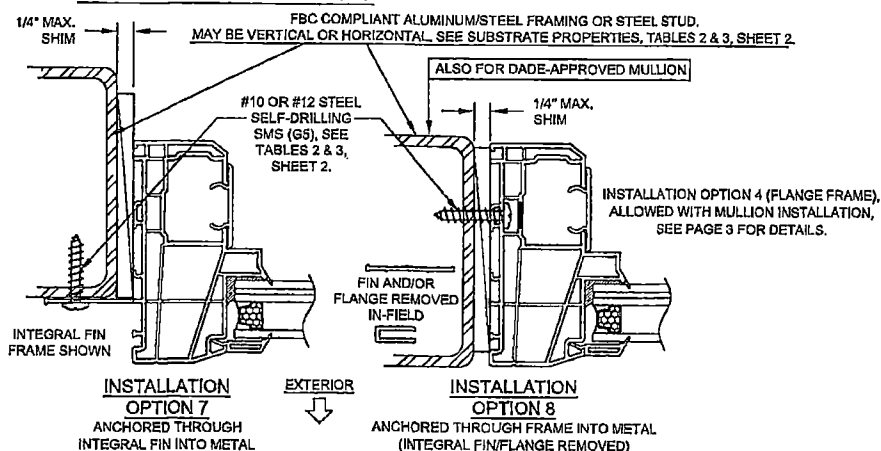
INSTALLATION OPTION 5 ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, THIS SHEET.



VERTICAL SECTION D-D



HORIZONTAL SECTION C-C



NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3 OF SHEET 2. 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 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2\"
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.
- 4) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

VISIBLE LIGHT FORMULAS

WIDTH
@ SASH: BUCK WIDTH - 6-1/2\"
@ FIXED LITE: BUCK WIDTH - 4-3/8\"

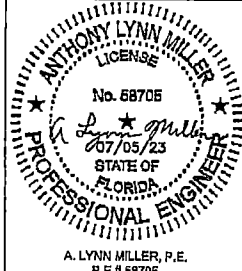
HEIGHT (EQUAL-LITE)
BUCK HEIGHT/2 - 3-15/16\"

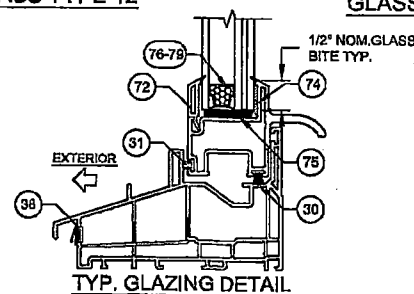
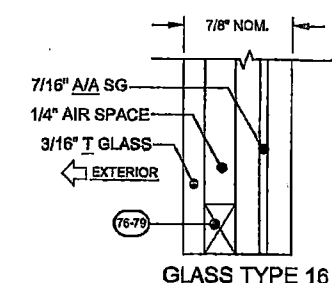
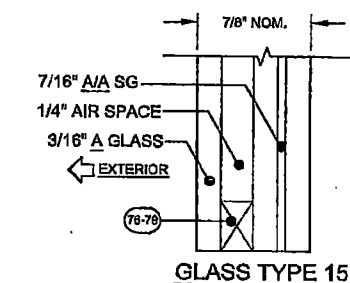
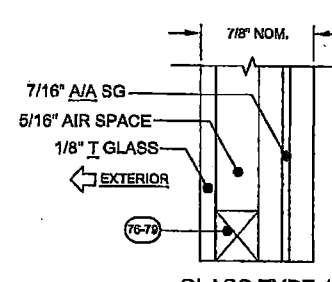
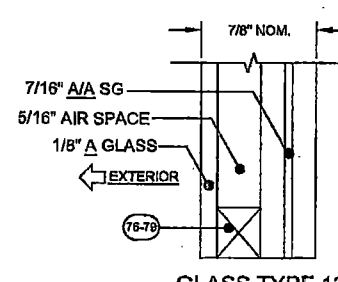
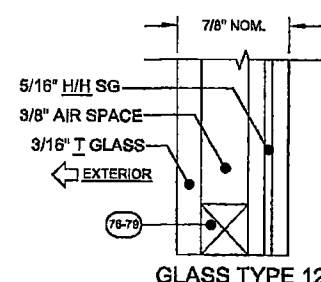
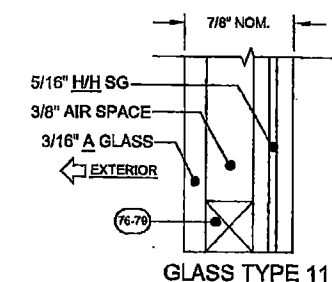
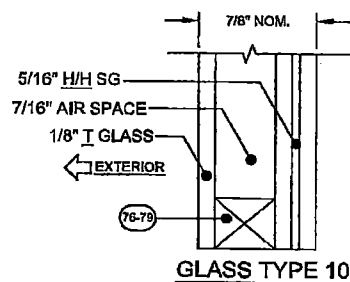
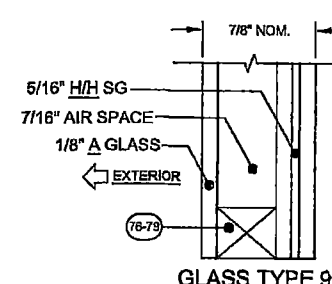
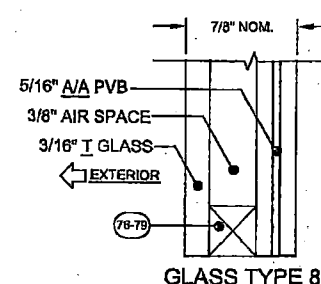
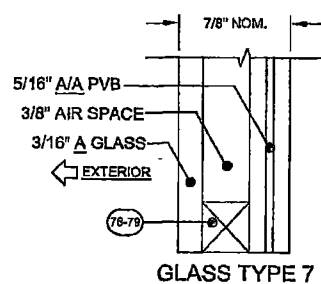
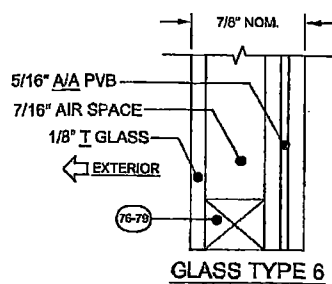
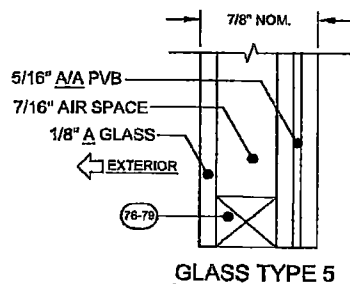


PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29298

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0707.12**
Expiration Date **07/30/2025**
By *Isang I. Chae*
Miami-Dade Product Control

Product Title	VINYL SINGLE HUNG WINDOW (LM)	Date	05/15/15
Design	J-CHANNEL AND INT. FIN FRAMES	Design	JENS ROSOWSKI
Rev.	ANCHOR HEAD TYPE NOTE - LY	Rev. Date	07/05/23
Sheet	SH5500	4 OF 13	SH5500-NOA





GLAZING NOTES:
 "A" = ANNEALED
 "H" = HEAT STRENGTHENED
 "T" = TEMPERED
 "PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
 "SG" = .090" SENTRYGLAS® BY KURARAY AMERICA, INC.

FOR LAMINATED GLAZING COMPONENTS, SEE TABLE 1, SHEET 2.

GLASS TYPES 9 THROUGH 16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

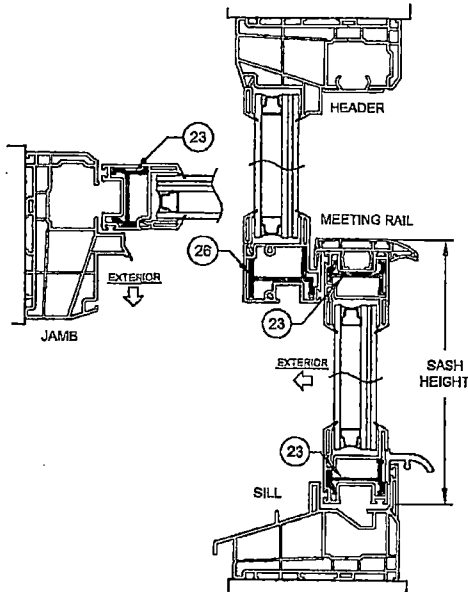
GLASS TYPES 5, 7, 9, 11, 13 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30°.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0707.12 Expiration Date 07/30/2025 By <i>Isang I. Chae</i> Miami-Dade Product Control	PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34278 (941) 480-1600		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	
	VINYL SINGLE HUNG WINDOW (LM) Date 05/15/15			
	GLAZING DETAILS Drawn By JENS ROSOWSKI			
	NO CHANGES THIS SHEET - LY Rev 07/05/23			
SH5500	Sheet 5 OF 13	DWG No. SH5500-NOA	Rev. D	<div style="text-align: center;"> <p>ANTHONY LYNN MILLER LICENSE No. 58705 07/05/23 STATE OF FLORIDA PROFESSIONAL ENGINEER</p> </div> <p>A. LYNN MILLER, P.E. P.E.# 58705</p>

TABLE 4:

Glass Types 5, 6, 7 & 8	Design Pressure, lbs/ft ²
	+/- 50.0
Reinf. Level R1	For all window & sash sizes

SEE TABLE 9, SHEET 8 FOR
ANCHOR GROUP AND QUANTITY.



SECTION DETAIL FOR WINDOWS WITH
LEVEL R1 REINFORCEMENT & GLASS TYPES 5, 6, 7 & 8
(REINFORCEMENTS SHOWN IN FIGURES ABOVE
APPLY TO ALL FRAME TYPES &
CONFIGURATIONS)

TABLE 5:

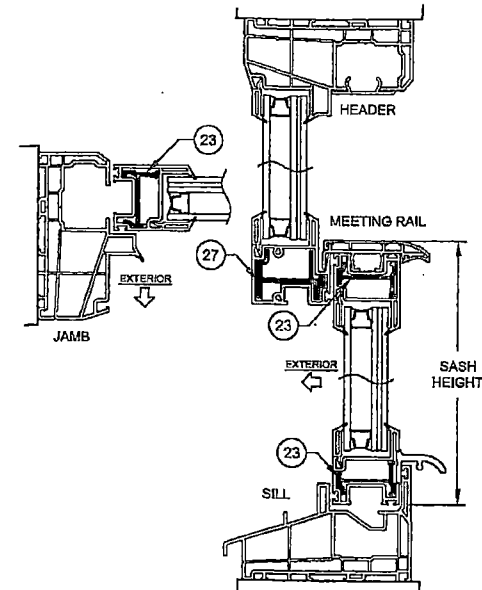
Glass Type 5	Bottom Sash Description for given Range of Window Height Shown	Sash Height Range (in)	Design Pressure, lbs/ft ²			
Reinf. Level R2			Window Buck Width (in)			
			up to 48	52.125		
23.5	Equal-Hite	11.351	+65.0	-70.0	+65.0	-70.0
	Standard Collage	14.517 - 16.970	+65.0	-70.0	+65.0	-70.0
	Equal-Hite	11.685 - 14.519	+65.0	-70.0	+65.0	-70.0
	Standard Preview	11.377 - 11.552	+65.0	-70.0	+65.0	-70.0
28	Tallest	23.517 - 25.255	+65.0	-70.0	+65.0	-70.0
	Standard Collage	20.358 - 23.515	+65.0	-70.0	+65.0	-70.0
	Equal-Hite	17.517 - 20.857	+65.0	-70.0	+65.0	-70.0
	Standard Preview	14.517 - 17.515	+65.0	-70.0	+65.0	-70.0
37.375	Shortest	11.377 - 14.515	+65.0	-70.0	+65.0	-70.0
	Tallest	27.543 - 31.911	+65.0	-70.0	+65.0	-70.0
	Custom Size	28.517 - 27.592	+65.0	-70.0	+65.0	-70.0
	Standard Collage	23.517 - 24.515	+65.0	-70.0	+65.0	-70.0
44	Equal-Hite	20.517 - 23.515	+65.0	-70.0	+65.0	-70.0
	Standard Preview	17.517 - 20.515	+65.0	-70.0	+65.0	-70.0
	Custom Size	14.517 - 17.515	+65.0	-70.0	+65.0	-70.0
	Shortest	11.377 - 14.515	+65.0	-70.0	+65.0	-70.0
48	Tallest	31.583 - 35.911	+65.0	-70.0	+65.0	-70.0
	Standard Collage	26.517 - 31.582	+65.0	-70.0	+65.0	-70.0
	Equal-Hite	20.517 - 25.515	+65.0	-70.0	+65.0	-70.0
	Standard Preview	17.517 - 20.515	+65.0	-70.0	+65.0	-70.0
48.625	Custom Size	14.517 - 17.515	+65.0	-70.0	+65.0	-70.0
	Custom Size	12.517 - 14.515	+65.0	-70.0	+65.0	-70.0
	Shortest	11.377 - 12.515	+65.0	-70.0	+65.0	-70.0
	Tallest	33.200 - 37.530	+65.0	-70.0	+65.0	-70.0
62	Standard Collage	25.517 - 33.207	+65.0	-70.0	+65.0	-70.0
	Equal-Hite	23.517 - 25.515	+65.0	-70.0	+65.0	-70.0
	Custom Size	20.517 - 23.515	+65.0	-70.0	+65.0	-70.0
	Standard Preview	17.517 - 20.515	+65.0	-70.0	+65.0	-70.0
75	Custom Size	14.517 - 17.515	+65.0	-70.0	+65.0	-70.0
	Custom Size	12.517 - 14.515	+65.0	-70.0	+65.0	-70.0
	Shortest	11.377 - 12.515	+65.0	-70.0	+65.0	-70.0
	Tallest	35.517 - 41.644	+65.0	-70.0	+65.0	-70.0
84	Standard Collage	31.517 - 36.515	+65.0	-70.0	+65.0	-70.0
	Equal-Hite	28.517 - 31.515	+65.0	-70.0	+65.0	-70.0
	Standard Preview	23.517 - 26.515	+65.0	-70.0	+65.0	-70.0
	Custom Size	20.517 - 23.515	+65.0	-70.0	+65.0	-70.0
91.75	Custom Size	17.517 - 20.515	+65.0	-70.0	+65.0	-70.0
	Custom Size	14.517 - 17.515	+65.0	-70.0	+65.0	-70.0
	Shortest	11.377 - 14.515	+65.0	-70.0	+65.0	-70.0
	Tallest	39.517 - 41.644	+65.0	-70.0	+65.0	-70.0
91.75	Standard Collage	31.517 - 36.515	+65.0	-70.0	+65.0	-70.0
	Equal-Hite	28.517 - 31.515	+65.0	-70.0	+65.0	-70.0
	Standard Preview	23.517 - 26.515	+65.0	-70.0	+65.0	-70.0
	Custom Size	20.517 - 23.515	+65.0	-70.0	+65.0	-70.0
91.75	Custom Size	17.517 - 20.515	+65.0	-70.0	+65.0	-70.0
	Custom Size	14.517 - 17.515	+65.0	-70.0	+65.0	-70.0
	Shortest	11.377 - 14.515	+65.0	-70.0	+65.0	-70.0
	Tallest	39.517 - 41.644	+65.0	-70.0	+65.0	-70.0

SEE TABLE 10, SHEET 9
FOR ANCHOR GROUP
AND QUANTITY.
** MIN. SASH HEIGHT =
WINDOW BUCK HEIGHT -
50.136
(APPLIES TO ANY
HEIGHT 91.75" OR LESS)

TABLE 6:

Glass Types 5, 6, 7 & 8	Design Pressure, lbs/ft ²
	+65.0 / -70.0
Reinf. Level R2	For all window and sash sizes

SEE TABLE 10, SHEET 9 FOR
ANCHOR GROUP AND QUANTITY.



SECTION DETAIL FOR WINDOWS WITH
LEVEL R2 REINFORCEMENT & GLASS TYPES 5, 6, 7 & 8
(REINFORCEMENTS SHOWN IN FIGURES ABOVE
APPLY TO ALL FRAME TYPES &
CONFIGURATIONS)

NOTES:

- 1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
- 2) FRAME DIMENSIONS ARE BUCK. SASH HEIGHT IS AS PER THE FIGURE.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0707.12
Expiration Date 07/30/2025
By Ishay L. Chandra
Miami-Dade Product Control

PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (841) 480-1600		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
		REGISTRATION #29296	
Title VINYL SINGLE HUNG WINDOW (LM)	Date 05/15/15		
Design DESIGN PRESSURE TABLE	Drawn JENS ROSOWSKI		
Revisions NO CHANGES THIS SHEET - LY	Date 07/05/23		
Sheet SH5500	Sheet 6 OF 13	Project SH5500-NOA	Rev. D

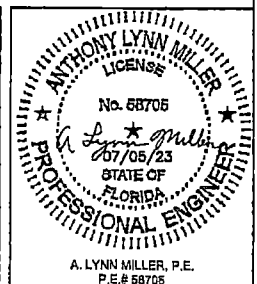


TABLE 7:

Glass Type 9-12, 15 & 16 Rein. Level 3	Bottom Sash Description (Length x Range @ Window Height Shown)	Sash Height Range (in)	Design Pressure, Ds/P ²			
			Window Buck Width (in)			
			up to 40	48	62-125	64
23.6	Equal-Itie	11.394	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	14.517 - 15.070	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Equal-Itie	11.563 - 14.510	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	11.377 - 11.692	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
28	Tallest	20.517 - 25.298	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	20.558 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Equal-Itie	17.517 - 20.567	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
37.375	Shortest	11.377 - 14.510	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Tallest	27.593 - 31.911	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Custom Size	26.517 - 31.922	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	23.517 - 26.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
44	Equal-Itie	20.517 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	17.517 - 20.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Custom Size	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	11.377 - 14.510	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
48	Tallest	31.583 - 35.911	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	26.517 - 31.922	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Equal-Itie	23.517 - 26.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	20.517 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
49.625	Custom Size	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	12.517 - 14.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	11.377 - 12.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Tallest	33.208 - 37.536	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
62	Standard Cottage	23.517 - 33.207	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Equal-Itie	20.517 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	17.517 - 20.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Custom Size	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
75	Custom Size	12.517 - 14.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	11.377 - 12.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Tallest	36.517 - 41.844	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	31.517 - 36.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
84	Equal-Itie	28.517 - 31.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	25.517 - 28.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Custom Size	20.517 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	17.517 - 20.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
91.78	Custom Size	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	13.017 - 14.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Tallest	11.654 - 13.016	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	39.517 - 41.844	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0

SEE TABLE 11, SHEET 10 FOR ANCHOR GROUP AND QUANTITY.

** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136

(APPLIES TO ANY HEIGHT 91.78" OR LESS)

NOTES:

- 1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME.
- 2) FRAME DIMENSIONS ARE BUCK. SASH HEIGHT IS AS PER THE FIGURE.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

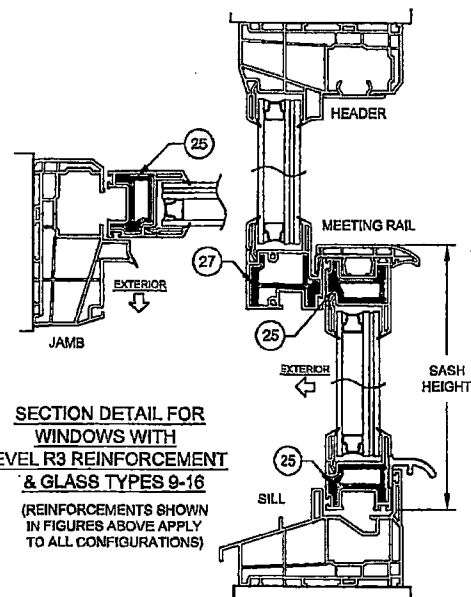
TABLE 8:

Glass Type 13 & 14 Rein. Level 3	Bottom Sash Description (Length x Range @ Window Height Shown)	Sash Height Range (in)	Design Pressure Ds/P ²			
			Window Buck Width (in)			
			16	24	32	64
23.5	Equal-Itie	11.394	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	14.517 - 15.070	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Equal-Itie	11.563 - 14.510	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	11.377 - 11.692	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
28	Tallest	23.517 - 25.298	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	20.558 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Equal-Itie	17.517 - 20.567	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
37.375	Shortest	11.377 - 14.510	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Tallest	27.593 - 31.911	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Custom Size	26.517 - 31.922	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	23.517 - 26.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
44	Equal-Itie	20.517 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	17.517 - 20.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Custom Size	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	11.377 - 14.510	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
48	Tallest	31.583 - 35.911	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	26.517 - 31.922	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Equal-Itie	23.517 - 26.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	20.517 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
49.625	Custom Size	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	12.517 - 14.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	11.377 - 12.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Tallest	33.208 - 37.536	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
62	Standard Cottage	23.517 - 33.207	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Equal-Itie	20.517 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	17.517 - 20.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Custom Size	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
75	Custom Size	12.517 - 14.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	11.377 - 12.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Tallest	36.517 - 41.844	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	31.517 - 36.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
84	Equal-Itie	28.517 - 31.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Preview	25.517 - 28.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Custom Size	20.517 - 23.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	17.517 - 20.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
91.78	Custom Size	14.517 - 17.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Shortest	13.017 - 14.516	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Tallest	11.654 - 13.016	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0
	Standard Cottage	39.517 - 41.844	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0	+70.0 -110.0

SEE TABLE 11, SHEET 10 FOR ANCHOR GROUP AND QUANTITY.

** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136

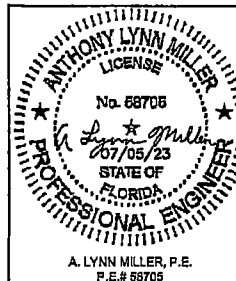
(APPLIES TO ANY HEIGHT 91.78" OR LESS)

SECTION DETAIL FOR
WINDOWS WITH
LEVEL R3 REINFORCEMENT
& GLASS TYPES 9-16(REINFORCEMENTS SHOWN
IN FIGURES ABOVE APPLY
TO ALL CONFIGURATIONS)GLASS TYPES 9 THROUGH
16 MAY NOT BE USED WITH
J-CHANNEL OR INTEGRAL
FIN FRAMESPGT
Custom Windows and Doors1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 450-1600PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

(941) 450-1600

REGISTRATION #29298

VINYL SINGLE HUNG WINDOW (LM)	Date	05/15/15
DESIGN PRESSURE TABLE	Drawn by	JENS ROSÓWSKI
NO CHANGES THIS SHEET - LY	Rev	07/05/23
SH5500	Sheet	7 OF 13
SH5500-NOA	Rev.	D

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

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group E	Anchor Group F
	3.6"	4"

[illegible]

SEE TABLE 4, SHEET 6 FOR DESIGN PRESSURES WHEN USING THIS TABLE.
 ** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.135
 (APPLIES TO ANY HEIGHT 91.78" OR LESS)

NOTES:

- 1) USE THE ABOVE "ANCHOR QUANTITIES REQUIRED....." TABLE FOR ANCHORS INSTALLED THROUGH THE FRAME.
- 2) USE THE ABOVE "MAX. ANCHOR O.C. SPACING....." TABLE FOR ANCHORS INSTALLED THROUGH THE INTEGRAL FIN.
- 3) FRAME DIMENSIONS ARE BUCK. 'MR' = MEETING RAIL.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 5) REFER TO TABLES 2 & 3, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0707.12

Expiration Date 07/30/2025

By Ishay L. Landa
Miami-Dade Product Control



Custom Windows and Doors
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

(941) 480-1600

REGISTRATION #29298

VINYL SINGLE HUNG WINDOW (LM)

Date	05/15/15
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ANCHOR QUANTITY TABLE

By JENS ROSOWSKI

Rev. NO CHANGES THIS SHEET - 1 Y

Rev	ate	07/05/23
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SH5500

8 OF 13

DWG No.	SH5500-NOA
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Rev. D

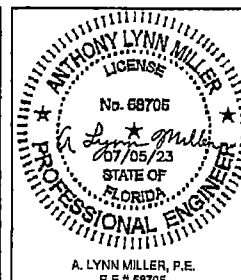


TABLE 10:

[illegible]

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group
12"	4
18"	3
24"	2

SEE TABLES 5 & 6, SHEET 6 FOR DESIGN PRESSURES WHEN USING THIS TABLE.
 ** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136
 (APPLIES TO ANY HEIGHT 91.78" OR LESS)

NOTES:

- 1) USE THE ABOVE "ANCHOR QUANTITIES REQUIRED....." TABLE FOR ANCHORS INSTALLED THROUGH THE FRAME.
- 2) USE THE ABOVE "MAX. ANCHOR O.C. SPACING....." TABLE FOR ANCHORS INSTALLED THROUGH THE INTEGRAL FIN.
- 3) FRAME DIMENSIONS ARE BUCK. "MR" = MEETING RAIL.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 5) REFER TO TABLES 2 & 3, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

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NOA-No. 23-0707.12
Expiration Date 07/30/2025
By Ishay L. Chach
Miami-Dade Product Control



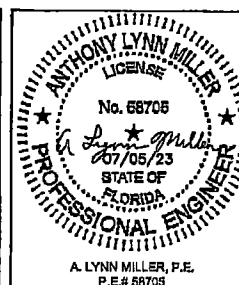
Custom Windows and Doors
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

(941) 480-1600

REGISTRATION #29296

Title	VINYL SINGLE HUNG WINDOW (LM)				Date	05/15/15	
Desc.	ANCHOR QUANTITY TABLE				Drawn By	JENS ROSOWSKI	
Rev	NO CHANGES THIS SHEET - LY				Rev Date	07/05/23	
Part	SH5500	Q'ty	9 OF 13	Long	SH5500-NOA	Rev	D



Anchor Quantities Required for "Through-Frame" Installation

GLASS TYPES 9 THROUGH 16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

NOTES:

- 1) FRAME DIMENSIONS ARE BUCK. "MR" = MEETING RAIL.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
3) REFER TO TABLES 2, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

By Ishag Is Lhanda
Miami-Dade Product Control

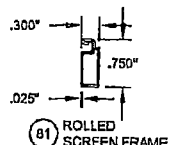
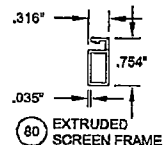
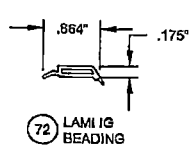
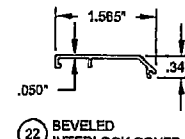
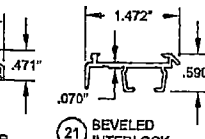
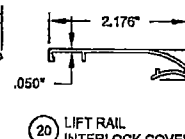
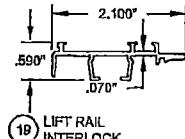
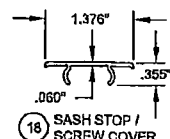
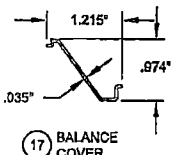
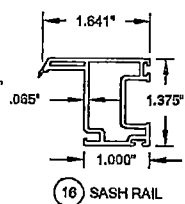
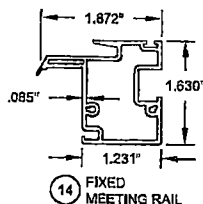
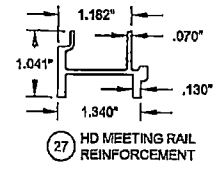
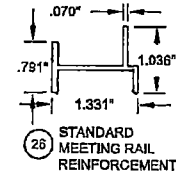
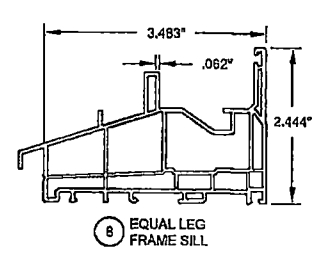
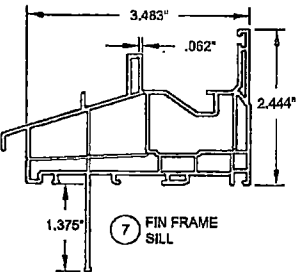
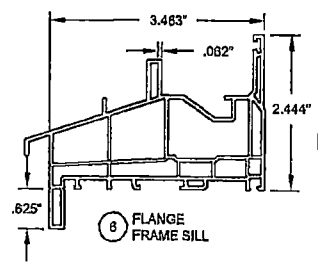
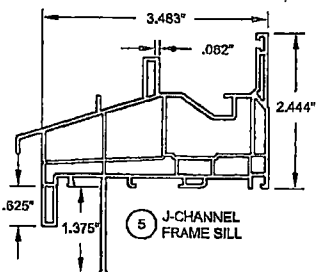
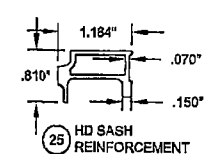
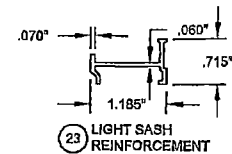
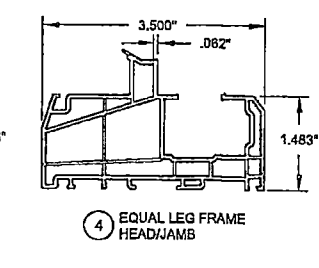
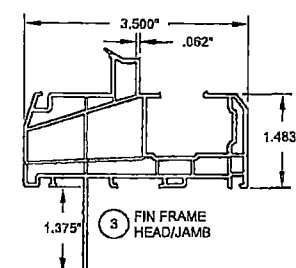
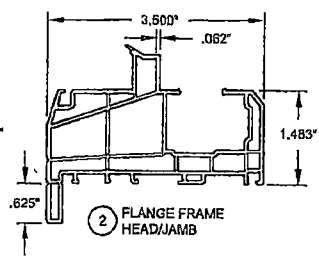
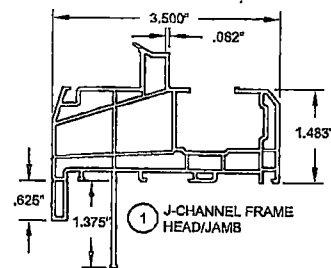
SH5500

OF 13	NO	SH5500-NO
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ANTHONY LYNN MILLER
LICENSE
No. 68705
07/05/93
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

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



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0707.12**
Expiration Date **07/30/2025**
By *Isang L. Chon*
Miami-Dade Product Control

PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (841) 480-1600		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
		REGISTRATION #29298	
Drawn	Title	Rev	Date
	VINYL SINGLE HUNG WINDOW (LM)		05/15/15
Drawn	Window Extrusions	Rev	JENS ROSOWSKI
Rev	NO CHANGES THIS SHEET - LY	Rev	07/05/23
Sheet	SH5500	11 OF 13	SH5500-NOA

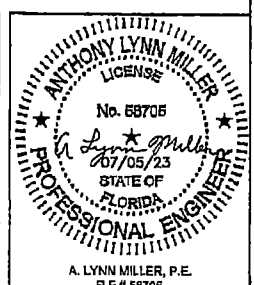
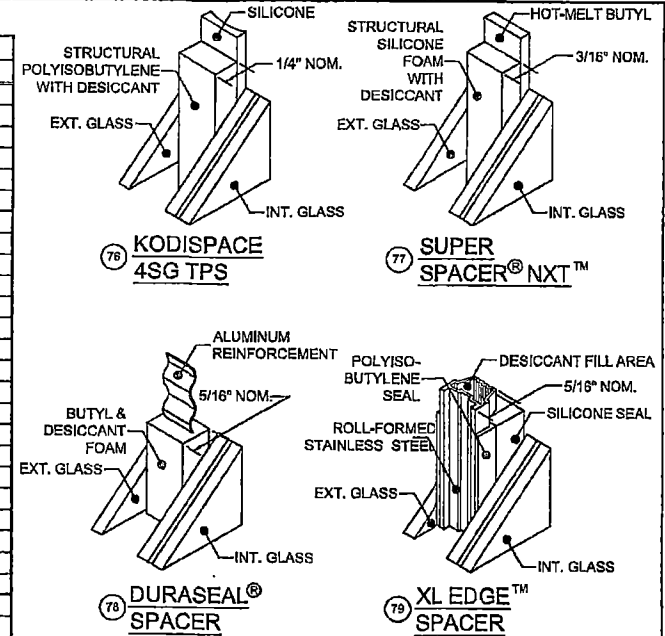


TABLE 12:

Bill of Material			
#	Part #	Description	Material
1	620101	Single Hung Frame Head & Jambs - J-Channel	PVC
2	620102	Single Hung Frame Head & Jambs - Flange	PVC
3	620103	Single Hung Frame Head & Jambs - Fin	PVC
4	620104	Single Hung Frame Head & Jambs - Equal Leg/Box	PVC
5	620105	SH/DH Frame Sill - J-Channel	PVC
6	620106	SH/DH Frame Sill - Flange	PVC
7	620107	SH/DH Frame Sill - Fin	PVC
8	620108	SH/DH Frame Sill - Equal Leg/Box	PVC
14	620131	Fixed Meeting Rail	PVC
16	620129	Sash Rail (Sides, Top & Bottom)	PVC
17	620134	Balance Cover	PVC
18	620133	Sash Stop/Screw Cover	PVC
19	620156	Pull Rail Interlock	6005 T5 Al
20	620144	Pull Rail Interlock Cover	PVC
21	620157	Beveled Interlock	6005 T5 Al
22	620145	Beveled Interlock Cover	PVC
23	620150	Light Sash Reinforcement	6063 T6 Al
25	620152	HD Sash Reinforcement	6063 T6 Al
26	620153	Standard Meeting Rail Reinforcement	6005 T5 Al
27	620154	HD Meeting Rail Reinforcement	6005 T5 Al
30	61644	Weatherstrip, .187" x .270" Fin Pile	
31	6Q300	Weatherstrip, .190" x .300" Foam Bulb	Flex PVC
32	61719	Weatherstrip, .187" x .220" PolyPile	
33	61625	Weatherstrip Plug, .220" Finseal	
35	78X1MTT	#8 x 1" Ph. PH SDS (Interlock Mounting Screw)	
36	78X3THPX	#8 x 3" Ph. PH SMS (Meeting Rail Screw)	410 SS
37	71669SP	Meeting Rail Screw Support Plate	6063 T6 Al
38	720210	Weep Hole Cover	PVC
40	720XXXXX	Constant Force Balance	
41		#8 x 3/4" Ph. FH SMS (Con. Force Balance Screw)	SS
42		Spiral Balance	
43	720205	Spiral Balance Shoe	Nylon
44	78X114FPAX	#8 x 1-1/4" Ph. FH SMS (Spiral Balance Screw)	410 SS

TABLE 12, CONT.:

Bill of Material, cont.			
#	Part #	Description	Material
45	720197	Auto Lock Mechanism	C Steel
46	720195&9	Sweep Lock	Cast Zinc
47	720195&8	Auto Lock Cover Assembly	Cast Zinc
48	76X1180PTX	#6 x 1-1/8" Ph. FH SDS (Auto and Sweep Lock Screw)	SS
49	720200	Auto and Sweep Lock Keeper	Cast Zinc
50	776X34PPA	#6 x 3/4" Ph. PH SDS (Keeper Screw)	SS
51	420181 L/R	Beveled Tilt Latch Corner Key	PVC
52	420182 L/R	Pull Rail Tilt Latch Corner Key	PVC
53	7634PHFL	#6 x 3/4" Ph. FH SDS (Corner Key Screw)	SS
54	420183	Tilt Latch	PVC
55	420184	Tilt Latch Retainer	PVC
56	720207	1" Tilt Latch Spring	SS
57	420186	Plastic Tilt Latch Finger Pull	PVC
58	720192	Metal Tilt Latch Finger Pull	Cast Zinc
59	420180	Pivot Bar Corner Key	PVC
60	720206	Pivot Bar	SS
63	720191	Sash Pull Handle	Cast Zinc
64	720194	Sash Pull Handle With Latch Assembly	Cast Zinc
65	7834FPT	#8 x 3/4" Ph. FH SDS (Pull Handle Screw)	SS
66	420188	Bottom Latch Strike Plate	Cast Zinc
67	77858B	#8 x 5/8" Ph. FH SMS (Strike Plate Screw)	SS
72	720135	Lami I.G. Bead	PVC
74		Backbedding, GE 7700 or Dow 791 or Dow 983	Silicone
75	71646N	Setting Block (7/8" x 1" x 1/8"), 85 +/- 5 duro.	EPDM
80	61012	Extruded Screen Frame	Alum
81	61011	Roll-Formed Screen Frame	Alum
82	7CKGLB21	Screen Corner Key for Extruded Frame X4	PVC
83	47042	Screen Corner Key with Pull Ring X2	PVC
84	47041	Screen Corner Key without Pull Ring X2	PVC
85	7CASPM	Tension Spring	SS
86	61816C48	Screen Cloth	Fiberglass
87	61635/61614	.140" Screen Spline (Machine/Hand Rolled)	Vinyl



Part #	Description	Material
76	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
77	Quanex Super Spacer nXT with Hot Melt Butyl	
78	Quanex Duraseal Spacer	
79	Cardinal XL Edge Spacer	

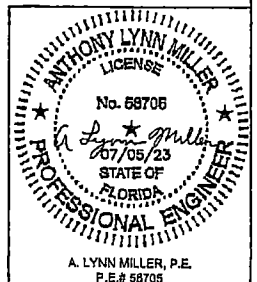
REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

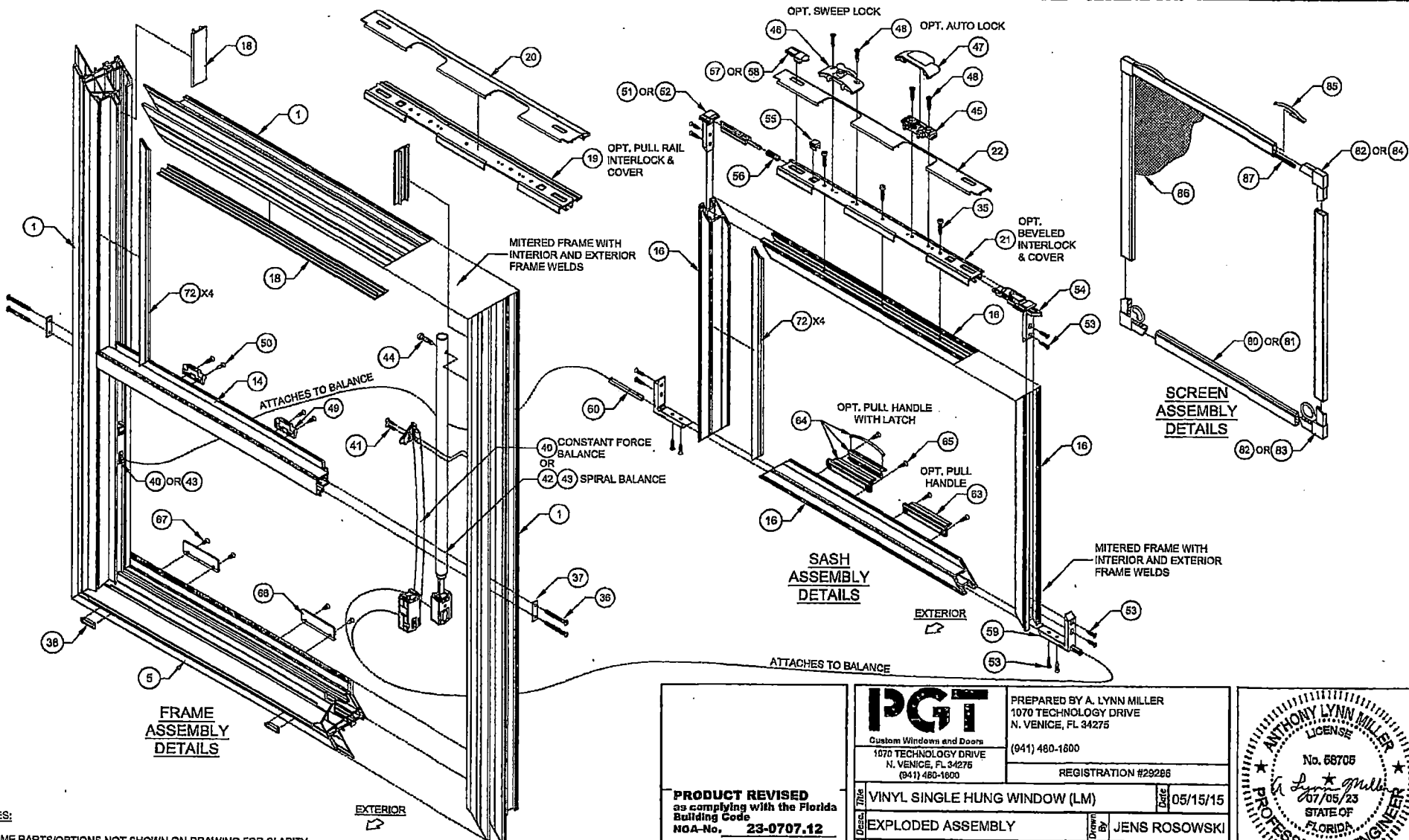
NOTES:

- 1) PVC BY VISION EXTRUSION, LTD., TO BE LABELED FOR AAMA EXTRUDER CODE.
 2) ITEMS # 9-13, 15, 24, 28, 29, 34, 38, 61, 62, 68-71, & 73 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. **23-0707.12**
 Expiration Date **07/30/2025**
 By *Isang J. L. Lian*
 Miami-Dade Product Control

PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34276 (941) 480-1600		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34276 (941) 480-1600 REGISTRATION #29296	
VINYL SINGLE HUNG WINDOW (LM)		Date 05/15/15	
BILL OF MATERIALS		Drawn By JENS ROSOWSKI	
CHANGED EXTRUDER TO VISION - LY		Rev Date 07/05/23	
Series SH5500	Sheet 12 OF 13	DWG No. SH5500-NOA	Rev. D



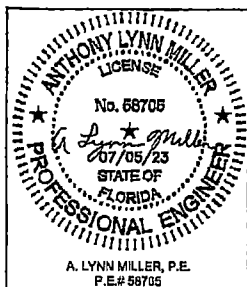


NOTES:

- 1) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
- 2) J-CHANNEL FRAME SHOWN, PARTS # 1 & 5, OTHER FRAME TYPES APPLY.
- 3) FOR REINFORCEMENT TYPES, SEE DETAILS ON SHEETS 6 & 7.
- 4) USE EITHER SASH TOP LOCKS OR SASH BOTTOM LOCKS.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. **23-0707.12**
 Expiration Date **07/30/2025**
 By *Isang H. Chah*
 Miami-Dade Product Control

PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34276 (941) 480-1600		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34276 (941) 460-1600	
REGISTRATION #29266		05/15/15	
VINYL SINGLE HUNG WINDOW (LM)		JENS ROSOWSKI	
EXPLODED ASSEMBLY		07/05/23	
NO CHANGES THIS SHEET - LY		07/05/23	
SH5500	13 OF 13	SH5500-NOA	D





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Product Approval
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FL #	FL21135-R6										
Application Type	Revision										
Code Version	2023										
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	FL21135_R6_COI_(k)_Cert of Independence.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E1300</td> <td>2004</td> </tr> <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 E1300	2004	ASTM E330	2002	ASTM E331	2000	TAS 202	1994
<u>Standard</u>	<u>Year</u>										
ASTM E1300	2004										
ASTM E330	2002										
ASTM E331	2000										
TAS 202	1994										
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL21135_R6_Equiv_of Standards (k).pdf										
Sections from the Code											

Product Approval Method

Method 1 Option D

Date Submitted

08/21/2023

Date Validated

08/21/2023

Date Pending FBC Approval

08/29/2023

Date Approved

10/17/2023

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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.1.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.1.pdf Created by Independent Third Party: Yes
21135.2	b. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.2.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.2.pdf Created by Independent Third Party: Yes
21135.3	c. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.3.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.3.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.4.pdf Verified By: Lyndon F. Schmidt, P.E. P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.4.pdf Created by Independent Third Party: Yes
21135.5	e. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Glazed Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door

		(Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.5.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.5.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: See INST 21135.6 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.6.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.6.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.7.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.7.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.8.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.8.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135_R6_II_(k)_Inst_21135.9.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R6_AE_(k)_Eval_21135.9.pdf 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)

Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135 R6 II (k) Inst 21135.10.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.10.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135 R6 II (k) Inst 21135.11.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.11.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135 R6 II (k) Inst 21135.12.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.12.pdf Created by Independent Third Party: Yes
21135.13	m. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135 R6 II (k) Inst 21135.13.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.13.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135 R6 II (k) Inst 21135.14.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.14.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes		Installation Instructions FL21135 R6 II (k) Inst 21135.15.pdf Verified By: Lyndon F. Schmidt, P.E. 43409

Impact Resistant: No Design Pressure: N/A Other: 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.)		Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.15.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135 R6 II (k) Inst 21135.16.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.16.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135 R6 II (k) Inst 21135.17.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.17.pdf 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)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: 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.)		Installation Instructions FL21135 R6 II (k) Inst 21135.18.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R6 AE (k) Eval 21135.18.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



Credit Card
Safe

securityMETRICS

THERMA TRU®

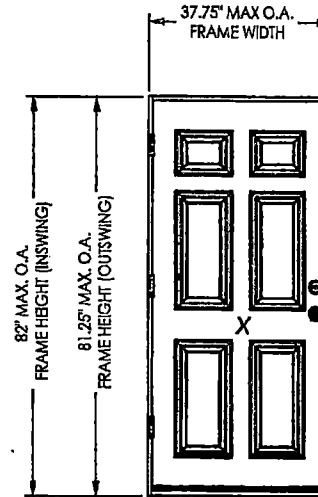
Benchmark® Doors

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

GENERAL NOTES

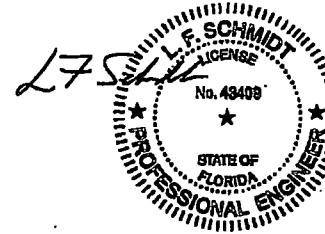
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 this drawing 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.

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

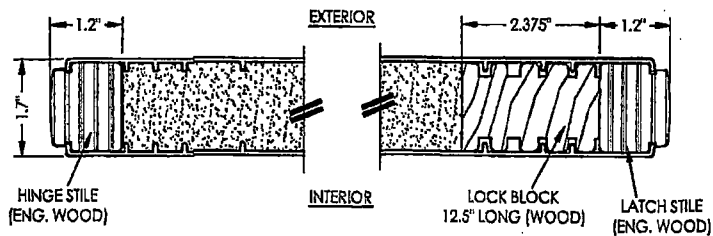


Digitally signed by Lyndon F Schmidt
Date: 2023.08.21 10:04:51 -04'00'

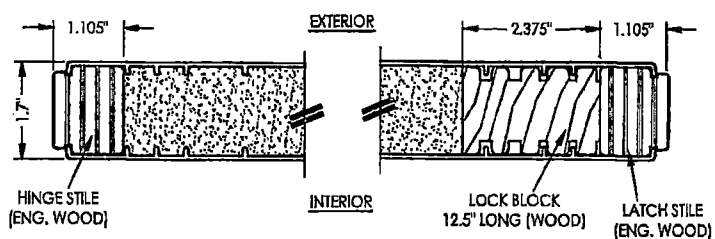
This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA

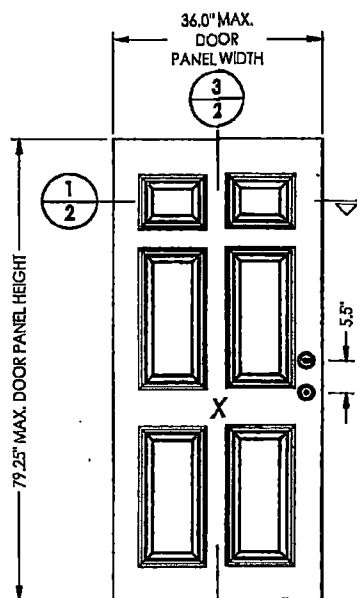
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT:	THERMA-TRU FIBERGLASS DOOR	PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
DATE:	07/07/17	NO.	DATE
SCALE:	N.T.S.	BY:	REVISIONS
DWG. BY:	JK	DATE:	
CHK. BY:	LFS	DATE:	
DRAWING NO.:	FL-21135.1	DATE:	
SHEET	1 OF 11	DATE:	



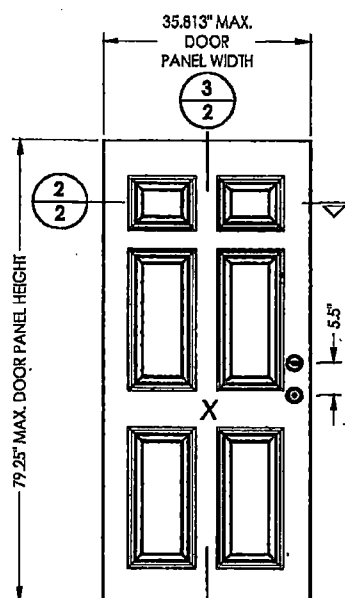
1
2 **HORIZONTAL CROSS SECTION**



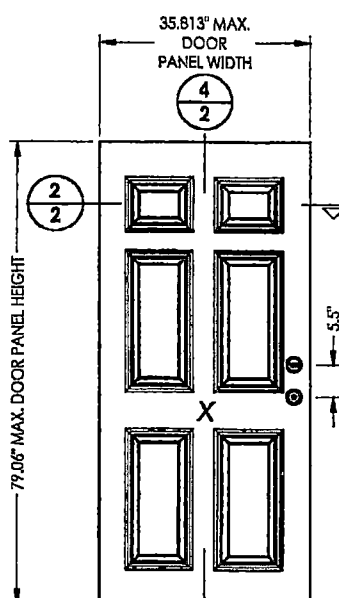
2
2 **HORIZONTAL CROSS SECTION**



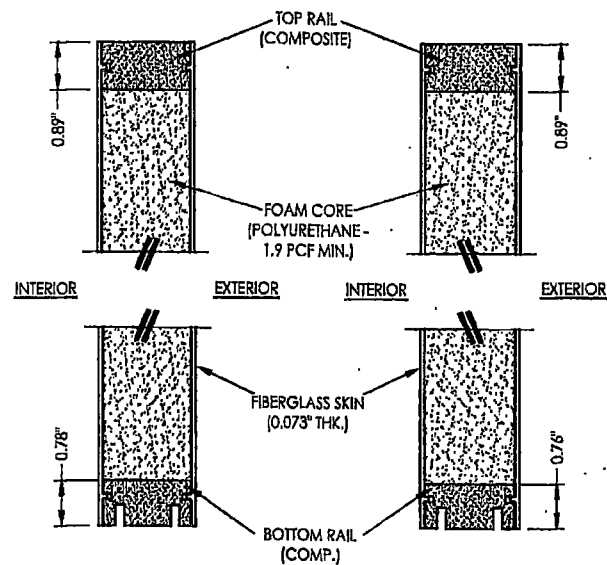
40 **DOOR PANEL**
BOOK



41 **DOOR PANEL**
Hybrid Door



42 **DOOR PANEL**
UT Door



3
2 **VERTICAL CROSS SECTION**

4
2 **VERTICAL CROSS SECTION**

Documents Prepared By:
Lynden F. Schmidt
P.E. No. 43408

BW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Venice, FL 33595
Phone No.: 813.659.9197
FBIPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	BY	REVISIONS
3	7/16/20	PO	UPDATE TO 7th ED (2020) FBC
2	10/09/18	MT	REV. DOOR PANEL OPTION NOTE
1	12/03/17	JK	RECESS. PANEL NOTATION

DATE: 07/07/17
SCALE: N.T.S.

DWG. BY: JK
CHK. BY: LFS

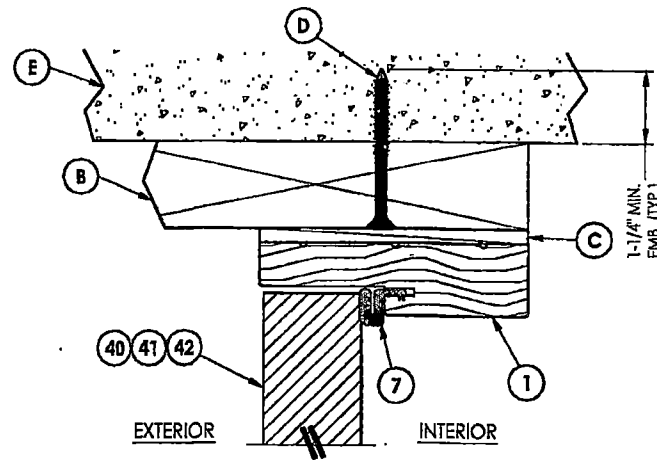
DRAWING NO.:
FL-21135.1

SHEET 2 of 11

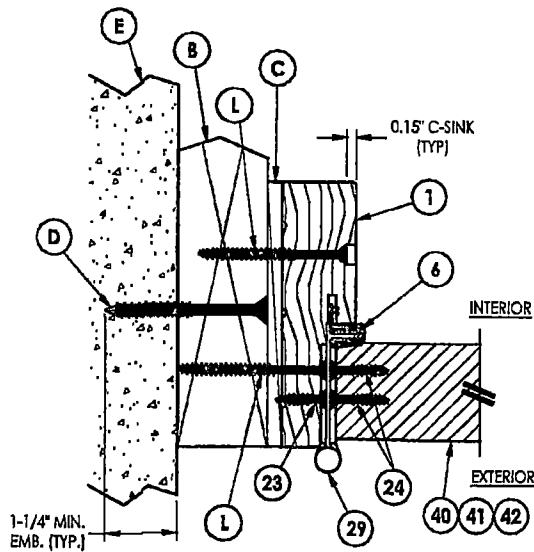


Products approved include all embossed and recessed panel doors.
Similar opaque panel configurations are allowed.
Panels shown are for illustration and are representative only.

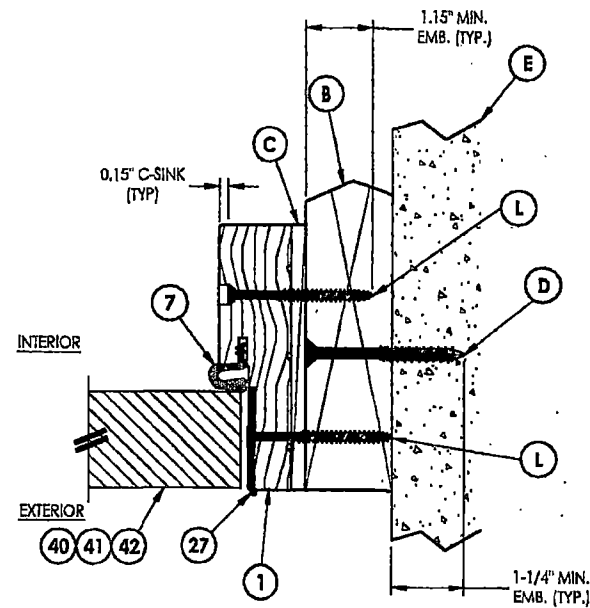
[illegible]



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

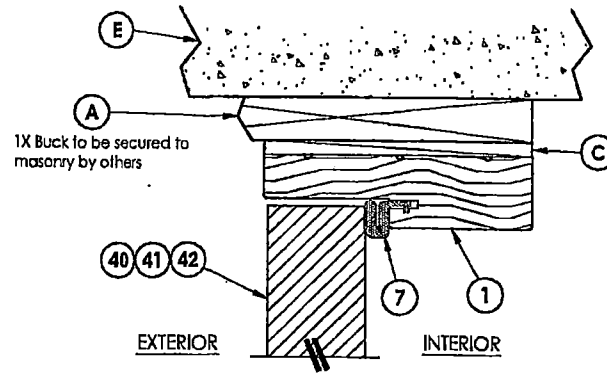


2
4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (inswing similar)

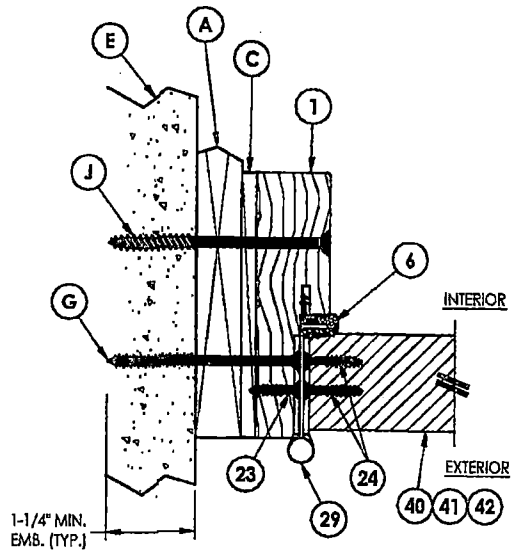


3
4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (inswing similar)

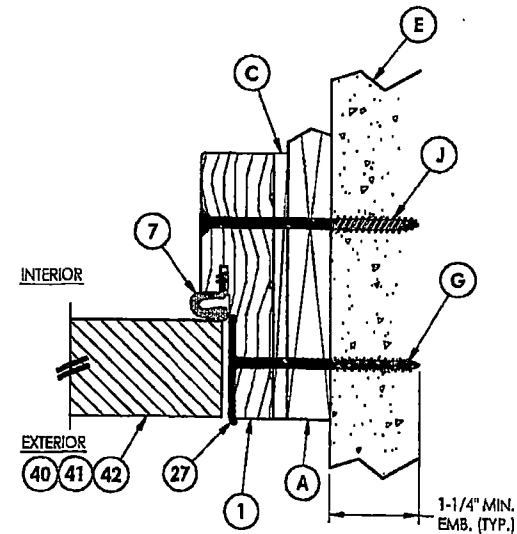
Document Prepared By: Lyndon F. Schmidt P.E. No. 43408		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33568 Phone No.: 813.658.9187 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
PO	DATE	BY	REVISIONS
3	7/16/20 UPDATE TO 7th ED (2020) FBC	JK	
2	10/08/18 REV. DOOR PANEL OPTION NOTE	JK	
1	12/03/17 RECESSED PANEL NOTATION	JK	
NO	DATE	BY	
DATE: 07/07/17 SCALE: N.T.S. DWN. BY: JK CHK. BY: LFS DRAWING NO.: FL-21135.1 SHEET 4 OF 11			



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

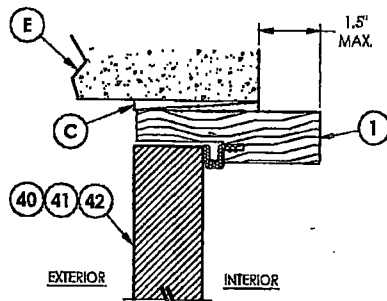


2 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

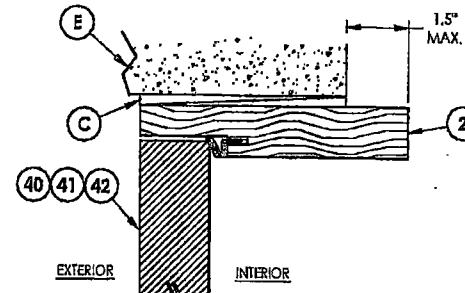


3 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33586 Phone No.: 813.866.8187 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
DATE: 07/07/17	SCALE: N.T.S.	CHK. BY: LFS	DRAWING NO.: FL-21136.1
3 7/16/20 UPDATE TO 7th ED (2020) FBC	PO	MT	BY
2 10/08/18 REV. DOOR PANEL OPTION NOTE	MT	JK	BY
1 12/03/17 RECESSED PANEL NOTATION	NO	DATE	REVISIONS
SHEET 5 OF 11			

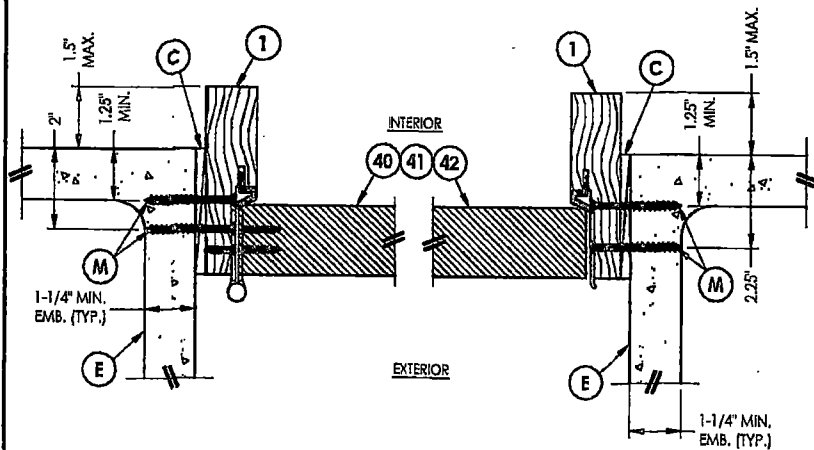


1/6 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

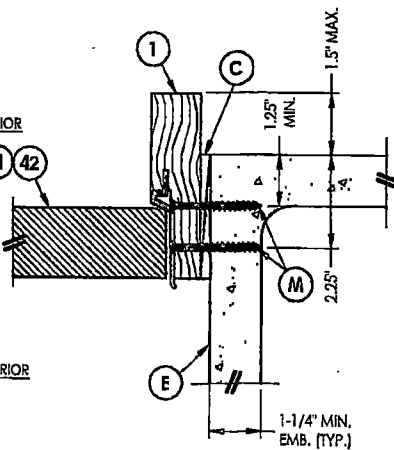


4/6 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

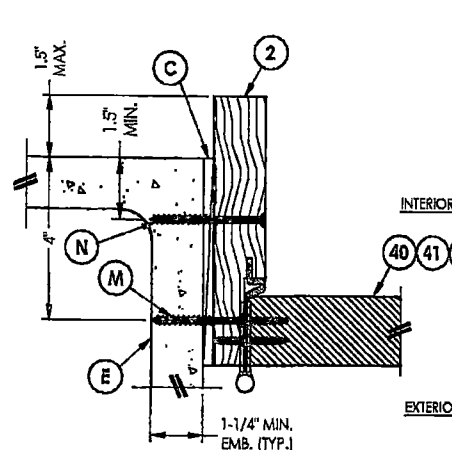
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
w/ STANDARD STRIKE = ± 55 PSF
w/ SECURITY STRIKE = ± 65 PSF



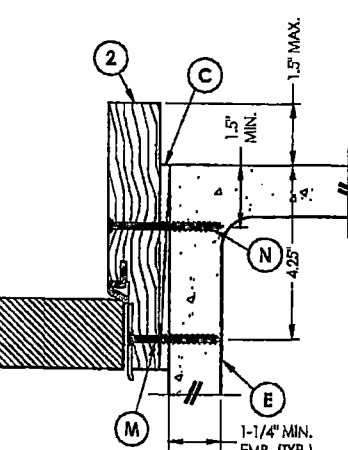
2/6 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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



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

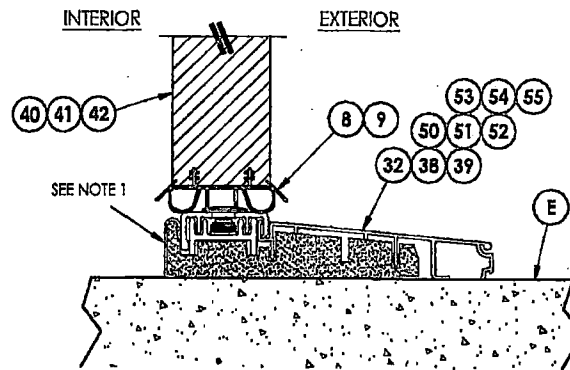


6/6 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

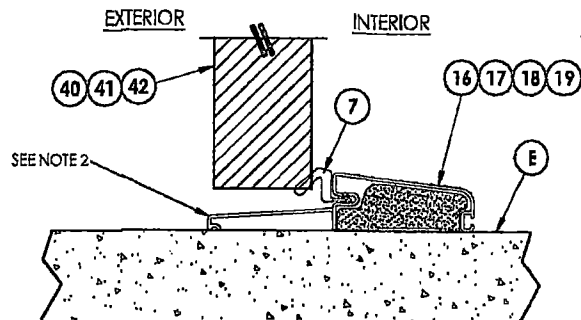
Documents Prepared By: Lynden F. Schreidt P.E. No. 43408		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)	
3	7/16/20	UPDATE TO 7th ED (2020) FBC	PD
2	10/05/19	REV. DOOR PANEL OPTION NOTE	MT
1	12/03/17	RECESSED PANEL NOTATION	JK
DATE: 07/07/17		NO. DATE	
SCALE: N.T.S.		BY	
DWG. BY: JK		REVISIONS	
CHK. BY: LFS			
DRAWING NO.: FL-21135.1			
SHEET 8 OF 11			

Notes:

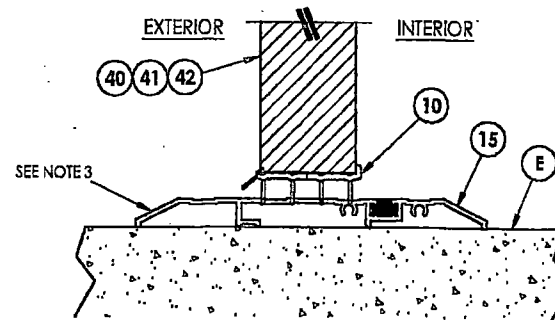
1. Sill Item #'s 32, 38, 39, 50, 51, 52, 53, 54 & 55 are attached to jambs w/ (3) #8 X 2-1/2" pth screws or (3) 2.5" staples at each end.
2. Sill Item #'s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pth screws at each end.
3. Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS screws at each end.



1
7 **VERTICAL CROSS SECTION**
Inswing Sill

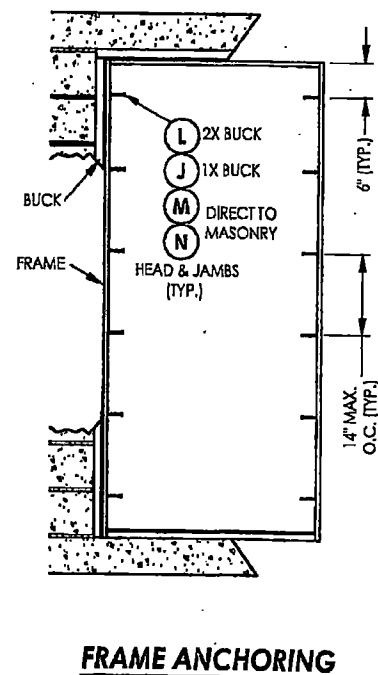
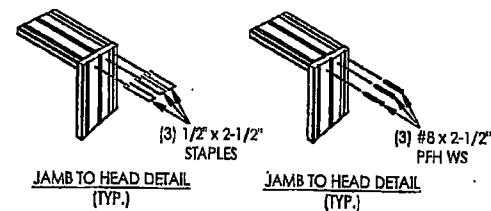
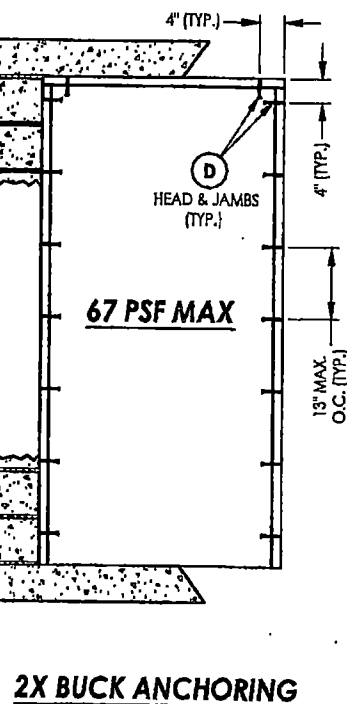


2
7 **VERTICAL CROSS SECTION**
Outswing Sill

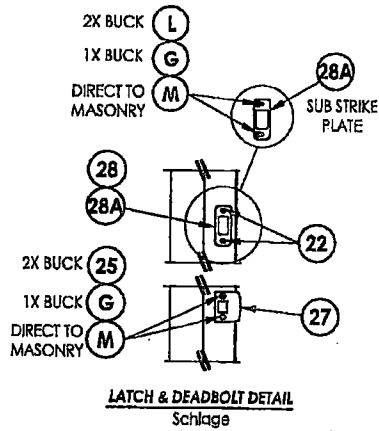
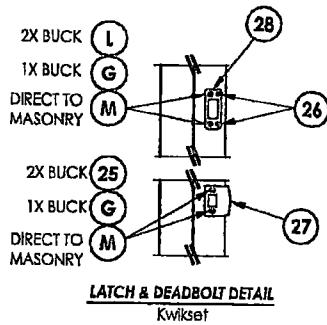


3
7 **VERTICAL CROSS SECTION**
Public Access Sill

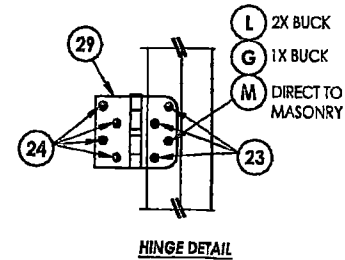
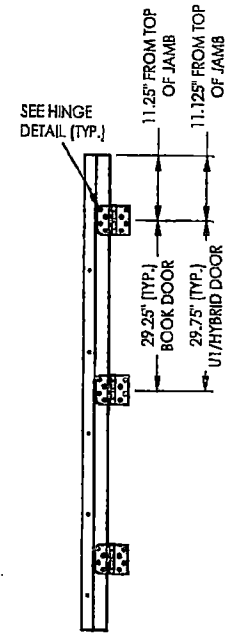
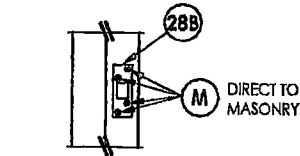
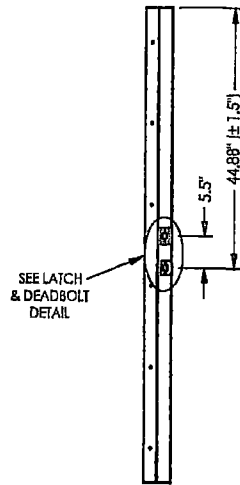
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Vero, FL 33595 Phone No.: 813.659.8197 FBPE Registry No. 8813	
PRODUCT:	Therma-Tru FIBERGLASS DOOR	PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS (THRESHOLDS)
		PO	JK
		DATE	BY
		NO.	DATE
		REVISIONS	
		DATE: 07/07/17	
		SCALE: N.T.S.	
		DWG. BY: JK	
		CHK. BY: LFS	
		DRAWING NO.: FL-21135.1	
		SHEET 7 OF 11	



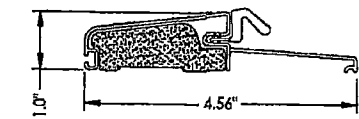
Documents Prepared By: London F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No: 813.655.9187 FBPE Registry No. 98113	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: BUCK & FRAME ANCHORING	
DATE:	07/07/17	PO	
SCALE:	N.T.S.	REV. DOOR PANEL OPTION	3 7/18/20 UPDATE TO 7th ED (2020) FRC
DWG. BY:	JK	RECESSSED PANEL NOTATION	2 10/08/16 REV. DOOR PANEL OPTION NOTE
CHK. BY:	LFS	NO DATE	1 12/03/17 RECESSSED PANEL NOTATION
DRAWING NO.:		BY	
FL-21135.1		REVISIONS	
SHEET 8 of 11			



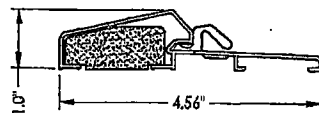
LATCH & DEADBOLT STRIKE DETAILS
(Standard Deadbolt Strike Plate)



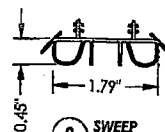
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33585 Phone No: 813.658.8197 FBPE Registry No. 9813	
PRODUCT:	THERMA-TRU FIBERGLASS DOOR	PART OR ASSEMBLY:	HARDWARE DETAILS
PO	PO	MT	BY
7/16/20	UPDATE TO 7th ED (2020) FBC	NO	DATE
2/10/08/18	REV. DOOR PANEL OPTION NOTE	JK	
1/12/03/17	RECESSED PANEL NOTATION	JK	
REVISIONS			
DATE: 07/07/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21135.1			
SHEET 9 OF 11			



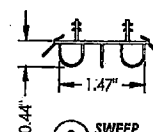
16 OUTSWING THRESHOLD
Composite Sill



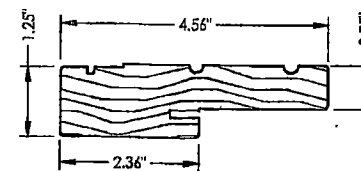
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



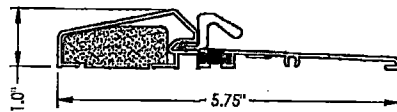
8 SWEEP



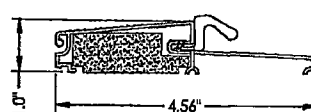
9 SWEEP



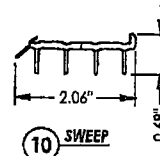
1 WOOD JAMB



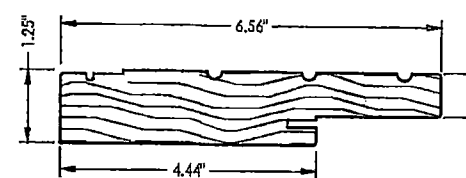
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



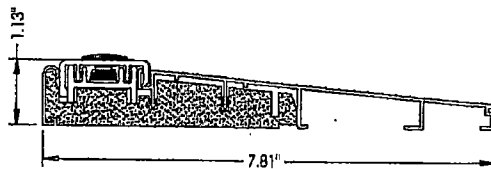
19 OUTSWING THRESHOLD
Composite Sill



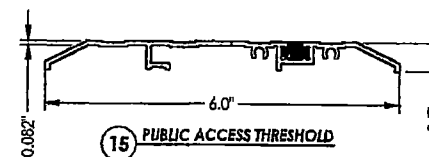
10 SWEEP



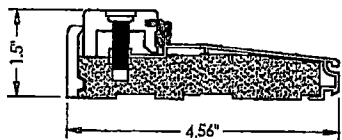
2 WOOD JAMB



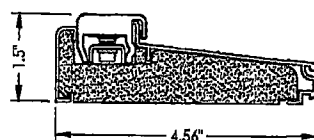
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



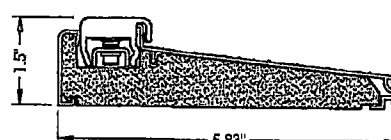
15 PUBLIC ACCESS THRESHOLD



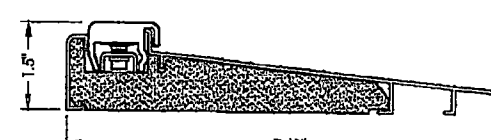
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



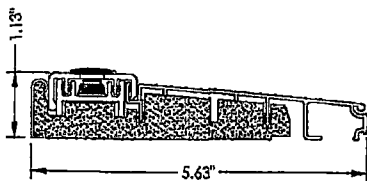
50 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



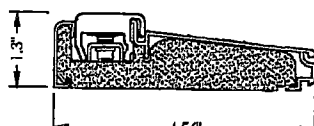
51 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



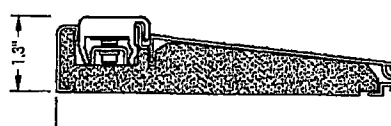
52 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



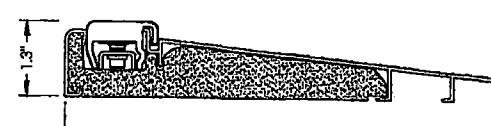
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



53 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



54 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



55 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Vero Beach, FL 33565 Phone No.: 813.655.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: COMPONENTS	
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
NOI DATE		REVISIONS	
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 DeWALT 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
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	29	4" X 4" HINGE	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	32	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	38	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	39	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	40	DOOR PANEL (BOOK)	-
2	JAMB (FINGER JOINT PINE)	WOOD	41	DOOR PANEL (HYBRID)	-
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	42	DOOR PANEL (U)	-
7	WEATHERSTRIP (LONG REACH)	FOAM	50	INSWING THRESHOLD	ALUM/COMP
8	SWEEP	VINYL	51	INSWING THRESHOLD	ALUM/COMP
9	SWEEP	VINYL	52	INSWING THRESHOLD	ALUM/COMP
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	53	INSWING THRESHOLD	ALUM/COMP
15	PUBLIC ACCESS THRESHOLD	ALUM	54	INSWING THRESHOLD	ALUM/COMP
16	OUTSWING THRESHOLD	ALUM/COMP	55	INSWING 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:

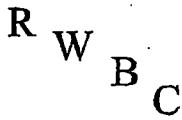
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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"
DeWALT 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.

Documents Prepared By Lyndon F. Schmidt P.E. No. 43408		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU DOOR FIBERGLASS		PART OR ASSEMBLY: BILL OF MATERIALS	
DATE: 07/07/17 SCALE: N.T.S. DWG. BY: JK CHK BY: LFS DRAWING NO.: FL-21135.1 SHEET 11 OF 11	REVISIONS NO. DATE 3 7/16/20 UPDATE TO 7th ED (2020) EFC 2 10/08/18 REV. DOOR PANEL OPTION NOTE 1 12/03/17 RECESSED PANEL NOTATION	PO MT JK BY	REVISIONS NO. DATE 3 7/16/20 UPDATE TO 7th ED (2020) EFC 2 10/08/18 REV. DOOR PANEL OPTION NOTE 1 12/03/17 RECESSED PANEL NOTATION



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: **August 18, 2023**

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 8th Edition (2023) 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. Test Report No.
ETC 01-741-10702.0
TEL 01460145
TEL 01461612 | Test Standard
TAS 202 (94)
ASTM E330 (02)
ASTM E330 (02) / E331 (00) | Testing Laboratory
ETC Laboratories
Testing Evaluation Lab., Inc.
Testing Evaluation Lab., Inc. | Signed by
Wendell W. Haney, P.E.
V.K. Wright
V.K. Wright |
| 2. Drawing No.
No. FL-21135.1 | Prepared by
RW Building Consultants, Inc. (# 9813) | | Signed & Sealed by
Lyndon F. Schmidt, P.E. |
| 3. Calculations
Anchoring | Prepared by
RW Building Consultants, Inc. (# 9813) | | Signed & Sealed by
Lyndon F. Schmidt, P.E. |
| 4. Quality Assurance
Certificate of Participation issued by National Accreditation and Management Institute, certifying that Therma Tru Corporation is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53. | | | |

Digitally signed by
Lyndon F. Schmidt
Date: 2023.08.21
08:51:48 -04'00'

LYNDON F. SCHMIDT, State of Florida, Professional Engineer, License No. 43409
This item has been digitally signed and sealed by L. F. Schmidt on 8-21-23.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA



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FL #

FL41620-R1

Application Type

Revision

Code Version

2023

Application Status

Approved

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

Comments

Archived



Product Manufacturer

Levi's Building Components LLC

Address/Phone/Email

400 Burkholder Drive
Ephrata, PA 17522
(717) 868-7175
justin@levisbc.com

Authorized Signature

Justin Smoker
justin@levisbc.com

Technical Representative

Justin Smoker

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400 Burkholder Drive
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justin@levisbuildingcomponents.com

Quality Assurance Representative

Address/Phone/Email

Category

Roofing

Subcategory

Underlayments

Compliance Method

Evaluation Report from a Product Evaluation Entity

Evaluation Entity

Intertek Testing Services NA, Inc.

Quality Assurance Entity

Intertek Testing Services NA, Inc. - QA Entity

Quality Assurance Contract Expiration Date

12/31/2026

Validated By

Intertek Testing Services NA, Inc.

Certificate of Independence

Referenced Standard and Year (of Standard)

Standard
ASTM D1970

Year
2017

Equivalence of Product Standards
Certified By

Sections from the Code

Roloshield™ Prime SA Installation Instructions

Roloshield™ Prime SA is a weatherproof barrier used as underlayment for asphalt shingles, synthetic shingles, metal roofing, concrete and clay tiles, slate, and cedar shakes. It can be used on various decking materials such as plywood, composite wood, wood plank, metal, concrete, and gypsum sheathing. Please read and understand all instructions and precautions before application, and make sure to follow all local building codes while applying this product.

Storage

- Store at room temperature preferably between 40° and 90°F.
- Keep upright in original packaging until ready for use.
- Keep clear from open flames and corrosive substances.

Preparation

- Ensure deck surface is clean, dry, and free of protrusions or other debris that may damage the product.
- Priming is not required when attaching to wood or wood based surfaces.
- Concrete and masonry decks should be primed with a solvent or a water-based primer that meets ASTM D41 for asphalt-based self-adhesive membranes.
- For re-roofing projects, replace any water-damaged sheathing and ensure surface is free of dirt, dust, and obstructions.
- Use of salt for ice removal is not recommended.

Application

- Apply on dry deck in fair weather -- preferable temperature of 40°F or higher.
- For cold weather applications below 40°F a primer should be used and the laps blind nailed. Blind nail with 3/8" head roofing nails of 1" or longer in the 3" overlap area.
- It is also recommended to blind nail in the overlap area when applying on steep slopes of 6:12 or greater, or when applying at temperatures greater than 100°F.
- When installing lay parallel to the eave with the printed side up, using 3" horizontal laps and 6" vertical laps.
- Roloshield™ Prime SA can also be applied vertically. For vertical installation anchor with 3/8" head roofing nails along the uppermost edge 3" down with 6 equally spaced nails across the 36" width. Make sure roofing nails are perpendicular to the roof deck ensuring the head lays flat and seals well to the top surface of the product. Ensure vertical overlaps are a minimum of 6" and horizontal laps a minimum of 3".
- Always work from the low point to the high point of the roof. Make sure to apply the membrane in valleys before it is applied to the eaves.

- Cut the membrane into 10-15 ft lengths and re-roll loosely. Peel back 1-2ft of release liner, align the membrane, and continue to peel the release liner from the membrane. Hand press or walk on, following with a 40lb or heavier pressure roller to smooth and secure the membrane onto the roof deck and overlap.
- For valley and ridge application, peel the release liner, then center the sheet over the valley or ridge. Drape and press it into place. Work from the center of the valley or ridge outward in each direction, once again starting from the low point and working up the roof.
- For eave installation Roloshield™ Prime SA should be applied over the metal drip edge at the eave. Do not fold the product over the roof edge unless the edge is covered by a drip edge or other flashing material. Roloshield™ Prime SA should extend from the eave up the roof to a point 24" inside the exterior wall. Refer to local building codes for specific requirements.
- Repair holes, tears, or other damage to the membrane with a patch of membrane extending past the damaged area by 6" in all directions. If fasteners are removed leaving holes they also must be patched.
- Do not install fasteners in the membrane over any unsupported areas of the deck, such as over joints between adjacent structural panels.
- In areas with high elevation, high wind, and/or wind driven rain it is recommended to cover the entire roof with Roloshield™ Prime SA.

Precautions

- Do not leave Roloshield™ Prime SA exposed to outdoor elements for a long period of time. Final roofing should be installed within 180 days of Roloshield™ Prime SA installation.
- Depending on roof pitch and surface conditions, blocking may be recommended to support roofing materials placed on the roof. Make sure to seal the holes left by fasteners after they have been removed.
- Remember to protect completed roof areas to avoid damage during installation and material transportation by installing boardwalks.
- Do not place too much material in one area on the roof deck. Distribute weight over supports as much as possible.

Caution

As with any roofing product, always follow safe roofing codes & practices (OSHA), and always use and wear fall protection devices when working on roofs. Release liners are slippery and should be removed from work area immediately after application. Use caution when walking or standing as slip resistance may vary with surface conditions, weather, footwear and roof pitch. Failure to use proper safety gear and footwear can result in serious injury.

Issue Date: 09-14-2021

Revision Date: 10-16-2023

Renewal Date: 10-31-2024

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Section: 07 30 05 – Roofing Felt and Underlayment

REPORT HOLDER:
Levi's Building Components LLC
400 Burkholder Drive,
Ephrata, PA 17522
USA
(717) 868-7175
www.levisbuildingcomponents.com

REPORT SUBJECT:
Roloshield Prime (ROLOPRIME SA) Self-adhered Roofing Underlayment

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2021, 2018, and 2015 *International Building Code*® (IBC)
- 2021, 2018, and 2015 *International Residential Code*® (IRC)
- 2023 and 2020 *Florida Building Code* (FBC)

1.2 The underlayment has been evaluated for the following properties (see Table 1):

- Physical Properties
- Ice Barrier

1.3 The underlayment has been evaluated for the following uses (see Table 1):

- Use in the field of the roof as an alternative to ASTM D226, Type I and Type II, roof underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC
- Use in areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier roof underlayment, when installed as noted in Section 4.2

2.0 STATEMENT OF COMPLIANCE

Roloshield Prime self-adhered underlayment complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 5.0.

3.0 DESCRIPTION

Roloshield Prime underlayment is a self-adhered synthetic underlayment comprised of a synthetic facer (non-woven scrim laminated onto a woven scrim), modified bitumen as the adhesive material, and a release liner. The underlayment is grey in color on the exposed side. The nominal weight of the underlayment is 15.4 pounds per 100 square feet. The underlayment is available in rolls of 36 inches wide by 72 feet long.

4.0 INSTALLATION

4.1 General: Roloshield Prime underlayment must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

4.2 Application: The roof deck must be in proper condition to ensure adhesion. Installation is limited to solid-sheathed decks of plywood substrates. The membrane is self-adhered to the substrate after the release liner is removed.

The membrane must be lapped a minimum of 3 inches on horizontal seams and 6 inches on vertical seams. Flashings around protrusions must be installed under the underlayment.

When used as an ice barrier, the membrane is applied from the lower edge of the roof, extending up the roof a distance of 24 inches inside the exterior wall line of the building.



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The roof covering may be installed immediately following the underlayment application, and the underlayment must be covered within the time designated in the report holder's published installation instructions.

5.0 CONDITIONS OF USE

5.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

5.2 Installation is limited to use with approved mechanically attached roof covering systems.

5.3 Installation is limited to structures where non-classified roof coverings are permitted or as a component of a classified roofing assembly when specifically recognized as such in a listing approved by the Code Official.

5.4 Installation is limited to roof systems that do not involve hot asphalt or coal-tar pitch.

5.5 Installation is limited to roofs with slope of 2:12 (17%) or greater.

5.6 Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayments.

5.7 Roloshield Prime underlayment is manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

6.0 SUPPORTING EVIDENCE

6.1 Reports of tests in accordance with ASTM D1970-18.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised December 2015).

6.3 Intertek Listing Report "Levi's Synthetic Roofing Underlayments", on the [Intertek Directory of Building Products](#).

7.0 IDENTIFICATION

Roloshield Prime self-adhered roofing underlayment is identified with the manufacturer's name (Levi's Building Components), address and telephone number, the product name (Roloshield Prime), the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0429).



8.0 OTHER CODES

8.1 Florida Building Code:

8.1.1 Scope of Evaluation: Roloshield Prime underlayment was evaluated for compliance with the 2023 and 2020 *Florida Building Code – Building* and the 2023 and 2020 *Florida Building Code – Residential*.

8.1.2 Conclusion: The Roloshield Prime underlayment described in Sections 2.0 to 7.0 of this report complies with the 2023 and 2020 *Florida Building Code – Building* and the 2023 and 2020 *Florida Building Code – Residential* including High-Velocity Hurricane Zones (HVHZ), subject to the following conditions:

- The underlayment must be installed in accordance with the provisions noted in Section 2.0 through 7.0 of this report, Sections 1507.1.1.1, 1507.1.1.2, or 1507.1.1.3 of the *Florida Building Code – Building*, and Section R905.1.1.1, R905.1.1.2, or R905.1.1.3 of the *Florida Building Code – Residential*
- Roloshield Prime may be used where underlayments complying with ASTM D1970 are permitted in TAS 110, as referenced in *Florida Building Code – Building*, Section 1515.1.4
- Roloshield Prime underlayment may be installed with clay and concrete tiles outside of the HVHZ when installed in accordance with *Florida Building Code – Building*, Section 1507.3.3 and *Florida Building Code – Residential*, Section R905.3.3
- Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*



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**9.0 CODE COMPLIANCE RESEARCH REPORT USE**

9.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

9.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

TABLE 1 - PROPERTIES EVALUATED

PROPERTY	2021 IBC SECTION	2021 IRC SECTION	2023 FBC Section (BUILDING)	2023 FBC Section (RESIDENTIAL)
Physical Properties	104.11, 1506, and 1507	R104.11, R904, and R905	1506, 1507.1.1, and 1515.1.4	R904, R905.1.1
Ice Barrier	1507	R905	N/A	N/A

NOTE: Section numbers may be different for earlier versions of the Codes.

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