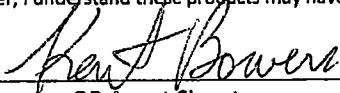


As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your 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	DIADORA-TRU	DIADORA-TRU BENCHMARK DOORS	21135.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MW WINDOW	1855H IMPACT SINGLE HUNG	17499.1
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	MID R METAL	29, MULTI-RIB STRUCTURAL	26490.1
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCTURAL METAL	MID R METAL	29, MULTI-RIB STRUCTURAL	26490.1
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL 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.


Contractor OR Agent Signature

8/13/22
Date

NOTES: _____

FLORIDA DEPARTMENT OF
Business & Professional Regulation



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Product Approval
USER: Public User

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

OFFICE OF THE
SECRETARY

FL #

FL17499-R8

Application Type

Revision

Code Version

2020

Application Status

Approved

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

Comments

Archived



Product Manufacturer

MI Windows and Doors

Address/Phone/Email

650 West Market Street
Gratz, PA 17030
(717) 365-3300 Ext 2560
bsitlinger@miwd.com

Authorized Signature

Brent Sitlinger
bsitlinger@miwd.com

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Windows

Subcategory

Single Hung

Compliance Method

Certification Mark or Listing

Certification Agency

American Architectural Manufacturers Association

Validated By

Steven M. Ulrich, PE

☒ Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)

Standard

Year

AAMA 506

2016

AAMA/WDMA/CSA 101/I.S.2/A440

2008

AAMA/WDMA/CSA 101/I.S.2/A440

2011

Equivalence of Product Standards
Certified By

Product Approval Method

Method 1 Option A

Date Submitted

11/17/2020

Date Validated

11/17/2020

Date Pending FBC Approval

Summary of Products

FL #	Model, Number or Name	Description
17499.1	185 SH	36x84 Fin/Flange Frame IG/SG Impact Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +55/-55 Other: R-PG55*, Missile Level D, Wind Zone 3. Glass to be bedded in Pecora 896 sealant.		Certification Agency Certificate FL17499 R8 C CAC APC (13278) 185 SH (101723).pdf FL17499 R8 C CAC APC (13279) 185 SH (101723).pdf FL17499 R8 C CAC APC (13280) 185 SH (101723).pdf FL17499 R8 C CAC APC (13292) 185 SH (101723).pdf Quality Assurance Contract Expiration Date 10/17/2023 Installation Instructions FL17499 R8 II 08-02545B1.pdf Verified By: Luis R Lomas PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R8 AE 513321B-3.pdf Created by Independent Third Party: Yes
17499.2	185 SH	52x72 Fin/Flange Frame IG/SG Single Hung Laminated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-60 Other: R-PG60		Certification Agency Certificate FL17499 R8 C CAC APC (13269) 185 SH (100823).pdf FL17499 R8 C CAC APC (13270) 185 SH (100823).pdf FL17499 R8 C CAC APC (13271) 185 SH (100823).pdf FL17499 R8 C CAC APC (13361) 185 SH (100823).pdf Quality Assurance Contract Expiration Date 10/08/2023 Installation Instructions FL17499 R8 II 08-02549B1.pdf Verified By: Luis R Lomas PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R8 AE 513327B-4.pdf Created by Independent Third Party: Yes
17499.3	185 SH	36x84 Fin/Flange Frame IG/SG Single Hung Laminated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-60 Other: R-PG60*		Certification Agency Certificate FL17499 R8 C CAC APC (13272) 185 SH (101723).pdf FL17499 R8 C CAC APC (13273) 185 SH (101723).pdf FL17499 R8 C CAC APC (13274) 185 SH (101723).pdf FL17499 R8 C CAC APC (13363) 185 SH (101723).pdf Quality Assurance Contract Expiration Date 10/17/2023 Installation Instructions FL17499 R8 II 08-02550B1.pdf Verified By: Luis R Lomas PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R8 AE 513328B-5.pdf Created by Independent Third Party: Yes
17499.4	185 SH	36x71 Fin, Finless, Flange Frame IG Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-67 Other: R-PG60*		Certification Agency Certificate FL17499 R8 C CAC APC H0462.01-109-47-R0 185 SH (042522).pdf Quality Assurance Contract Expiration Date 04/25/2022 Installation Instructions FL17499 R8 II 08-03163-1.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R8 AE 514082.pdf Created by Independent Third Party: Yes
17499.5	185 SH	36x72 Fin, Flange, and Finless Frame Insulated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-70 Other: R-PG60		Certification Agency Certificate FL17499 R8 C CAC APC (17811)1583.02-106-11-R0 185 SH(061423).pdf Quality Assurance Contract Expiration Date 06/14/2023 Installation Instructions FL17499 R8 II 08-03383.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports

		FL17499_R8_AE_514377.pdf Created by Independent Third Party: Yes
17499.6	185 SH	52x62 Fin, Flange, and Finless Frame, Insulated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50/-63 Other: R-PG50		Certification Agency Certificate FL17499_R8_C_CAC_APC(17812)1711.08-106-12-R0_185_SH(072723).pdf Quality Assurance Contract Expiration Date 07/27/2023 Installation Instructions FL17499_R8_II_08-03379.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R8_AE_514373.pdf Created by Independent Third Party: Yes
17499.7	185 SH	52x62 Fin, Flange, and Finless Frame, Insulating Lami Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-63 Other: R-PG50		Certification Agency Certificate FL17499_R8_C_CAC_APC(17813)1711.04-106-12-R0_185_SH(072723).pdf Quality Assurance Contract Expiration Date 07/27/2023 Installation Instructions FL17499_R8_II_08-03381.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R8_AE_514375.pdf Created by Independent Third Party: Yes
17499.8	185 SH	36x72 Fin, Flange, Finless Frame, Insulated Glass
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-70 Other: R-PG60, Missile Level D, Wind Zone 3		Certification Agency Certificate FL17499_R8_C_CAC_APC(17816)1711.07-106-12-R2_185_SH(061423).pdf Quality Assurance Contract Expiration Date 06/14/2023 Installation Instructions FL17499_R8_II_08-03380.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R8_AE_514374.pdf Created by Independent Third Party: Yes
17499.9	185 SH	52x72 Fin/Flange Frame IG/SG Impact Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +55/-55 Other: R-PG55, Missile Level D, Wind Zone 3. Glass to be bedded in Pecora 896 sealant.		Certification Agency Certificate FL17499_R8_C_CAC_APC(13275)_185_SH(100823).pdf FL17499_R8_C_CAC_APC(13276)_185_SH(100823).pdf FL17499_R8_C_CAC_APC(13277)_185_SH(100823).pdf FL17499_R8_C_CAC_APC(13291)_185_SH(100823).pdf Quality Assurance Contract Expiration Date 10/08/2023 Installation Instructions FL17499_R8_II_08-02544B1.pdf Verified By: Luis R Lomas PE 62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R8_AE_513320B-1.pdf Created by Independent Third Party: Yes
17499.10	185 SH	52x84 Fin/Flange Frame IG/SG Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60/-60 Other: R-PG60		Certification Agency Certificate FL17499_R8_C_CAC_APC(13263)_185_SH(100923).pdf FL17499_R8_C_CAC_APC(13264)_185_SH(100923).pdf FL17499_R8_C_CAC_APC(13265)_185_SH(100923).pdf FL17499_R8_C_CAC_APC(13362)_185_SH(100923).pdf Quality Assurance Contract Expiration Date 10/09/2023 Installation Instructions FL17499_R8_II_08-02546B1.pdf Verified By: Luis R Lomas PE 62514 Created by Independent Third Party: Yes Evaluation Reports FL17499_R8_AE_513322B-2.pdf Created by Independent Third Party: Yes
17499.11	185 Triple SH	111x72 Fin Frame IG/SG Single Hung 110x72 Flange Frame IG/SG Single Hung

Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: R-PG50*		Certification Agency Certificate FL17499 R8 C CAC APC (13341) 185 SH TPL (110423).pdf FL17499 R8 C CAC APC (13343) 185 SH TPL (102123).pdf FL17499 R8 C CAC APC (13346) 185 SH TPL (102023).pdf FL17499 R8 C CAC APC (13348) 185 SH TPL (102123).pdf Quality Assurance Contract Expiration Date 10/20/2023 Installation Instructions FL17499 R8 II 08-02548B1.pdf Verified By: Luis R Lomas PE 62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R8 AE 513324B-6.pdf Created by Independent Third Party: Yes
17499.12	185 Twin SH	106x72 Fin Frame IG/SG Single Hung 105x72 Flange Frame IG/SG Single Hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +45/-45 Other: R-PG45		Certification Agency Certificate FL17499 R8 C CAC APC (13340) 185 SH TWN (102123).pdf FL17499 R8 C CAC APC (13342) 185 SH TWN (110423).pdf FL17499 R8 C CAC APC (13347) 185 SH TWN (102023).pdf FL17499 R8 C CAC APC (13349) 185 SH TWN (102123).pdf Quality Assurance Contract Expiration Date 10/20/2023 Installation Instructions FL17499 R8 II 08-02547B1.pdf Verified By: Luis R Lomas PE-62514 Created by Independent Third Party: Yes Evaluation Reports FL17499 R8 AE 513323B-7.pdf Created by Independent Third Party: Yes

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[Next](#)

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Product Approval Accepts:



Credit Card
Safe

SECURITY+ TRICS

A-L-I

(Validator / Operations Administrator)

**AAMA
CERTIFICATION PROGRAM****AUTHORIZATION FOR PRODUCT CERTIFICATION**

MI Windows & Doors, LLC
P.O. Box 370
Gatz, PA 17030-0370

Attn: Rick Sawdey

This authorization is based on the successful completion of tests, and the reporting to the AAMA Validator of the results of the tests by an AAMA Accredited Laboratory. The product information below will be added to the next update of the AAMA Certified Products Directory.

SPECIFICATIONS		RECORD OF PRODUCT TESTED			
AAMA/WDMA/CSA 101/LS.2/A440-08 R-PG55*-914x2134 (36x84)-H	AAMA 508				
COMPANY AND CODE	Missile Level: D Rating: +55/-55, 36x84 Wind Zone: 3	CPD NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED	
MI Windows & Doors, LLC Code: MTL	Rating above conforms to the requirements of: ASTM E1886 and E1996	13278	185 SH (FLANGE) (AL)(O/X)(OG) (0.090" PVB LAM GL) (ASTM)	FRAME (mm) 914 x 2134 (3'0" x 7'0")	SASH (mm) 876 x 914 (2'11" x 3'0")

This Certification will expire **October 17, 2023** (extended from **October 17, 2018** per **AAMA 103-15**) and requires validation until then by continued listing in the current AAMA Certified Products Directory.

Structural Test & Report By:

Architectural Testing, Inc.

Report No: **E1729.01-109-47**

Date of Report: **October 31, 2014** (Revised **January 6, 2015**,
& **June 23, 2016**)

Missile Impact Test & Report By:

Architectural Testing, Inc.

Report No: **E1729.02-109-47**

Date of Report: **October 31, 2014** (Revised **January 6, 2015**,
& **June 23, 2016**)

Evaluated for Certification: **September 12, 2018**

Associated Laboratories, Inc.

Authorized for Certification: **September 12, 2018**

American Architectural Manufacturers Association

JGSJTS

ACP-04 (Rev. 6/16)

L. Roberto Lomas P.E.

1432 Woodford Rd.
Lewisville, NC 27023
434-688-0609
rlomas@rlomaspe.com

Engineering Evaluation Report

Report No.: 513321B

Manufacturer: MI Windows & Doors
650 West Market Street
Gratz, PA, 17030

Product Line: Series 185 Aluminum Single Hung Window 36" x 84" – Impact

Compliance:

The above mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61G20-3.005 method 1(a). The product listed herein complies with requirements of the Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-02545 revision B, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Test report No.: E1729.01-109-47 signed and sealed by Michel D. Stremmel P.E.
Architectural Testing Inc., York, PA
AAMA/WDMA/CSA 101/LS.2/A440-08
Design pressure: ± 60.15 psf
Water penetration resistance 9.19psf
3. Test report No.: E1729.02-109-47 signed and sealed by Michel D. Stremmel P.E.
Architectural Testing Inc., York, PA
ASTM E1886-05 and ASTM E1996-12
ASTM E1886/ E1996 Large Missile Impact, Level D, Wind Zone 3
ASTM E1886/ E1996 Cyclic Load Test, ± 55.0 psf design pressure
4. Anchor calculations, report number 513321-1, prepared, signed and sealed by Luis Roberto Lomas P.E.

Limitations and Conditions of use:

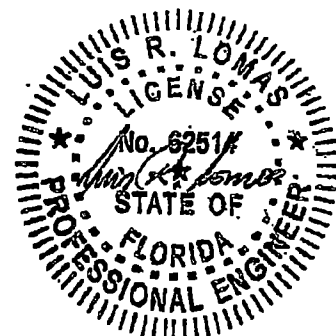
- Maximum design pressure: ± 55.0 psf
- Maximum unit size: 36" X 84"
- Units must be glazed per ASTM E1300-04/09, according with glazing details in approval drawing.
- This product is not rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame material to be Aluminum 6063-T5.

Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document, 08-02545 revision B.

Certification of Independence:

Please note that I don't have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I don't have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/15	R.L.
B	REVISED GLASS	10/02/17	R.L.

NOTES:

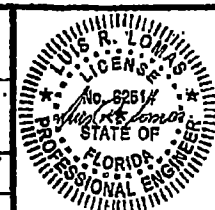
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: EXTRUDED RIGID PVC.
12. UNITS MUST BE GLAZED PER ASTM E1300-04/09, SEE SHEET 11 FOR GLASS DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 186A (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .048" THICK MINIMUM

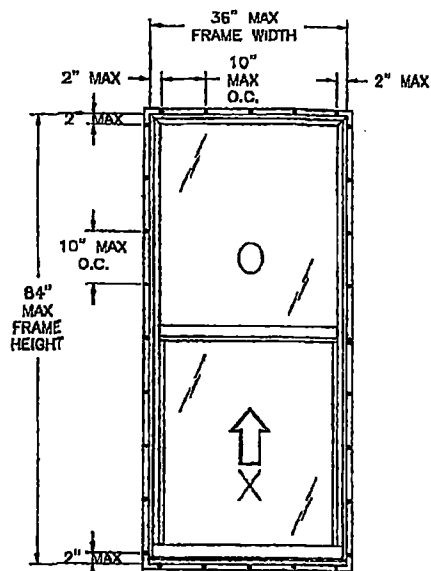
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 - 3	ELEVATIONS
4 - 10	INSTALLATION DETAILS
11	COMPONENTS

MI WINDOWS AND DOORS, LLC			
650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI NOTES			
DRAWN: N.G.	DWG NO. 08-02545	REV B	
SCALE NTS	DATE 12/09/2014	SHEET 1	OF 11
L. ROBERTO LOMAS P.E. 1492 WOODFORD RD LEWISVILLE, NC 27023 434-953-8809 llomas@lomaspa.com			

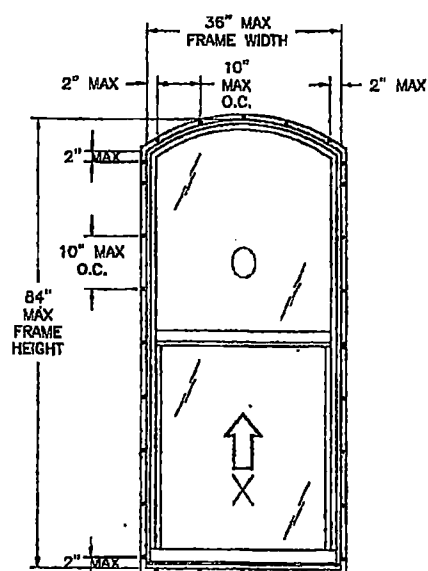
SIGNED: 12/14/2017



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



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



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

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

NOTES:

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

HARDWARE SCHEDULE

- (2) METAL SWEEP LOCK AT 6" FROM EACH END INTERIOR MEETING RAIL
- (2) BLOCK AND TACKLE BALANCE AT JAMBS

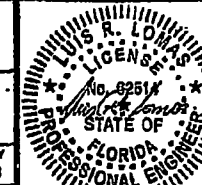
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

CHART #2 FIN INSTALLATION

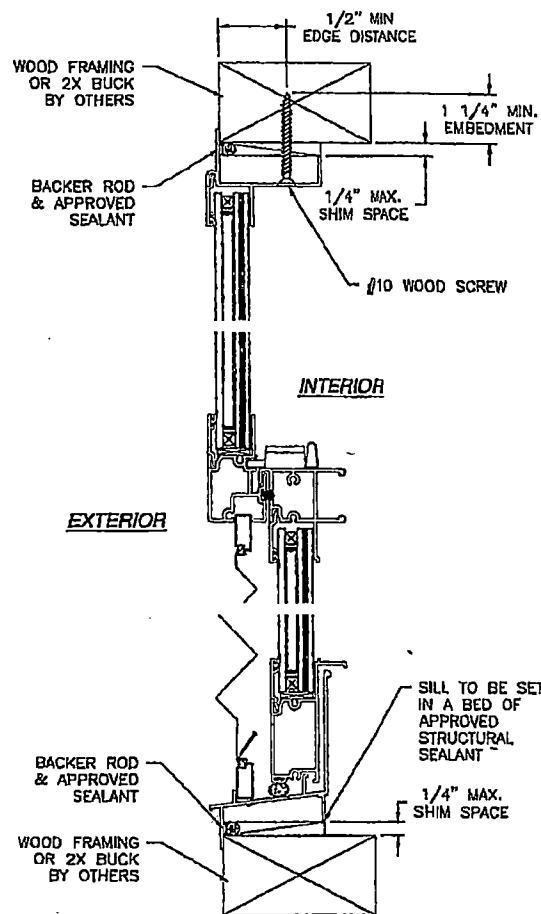
Frame Height (in)	Number of anchor locations required							
	Frame Width (in)							
	18.00		24.00		30.00		36.00	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
24.00	3	3	3	3	4	3	5	3
30.00	3	4	3	4	4	4	5	4
36.00	3	5	3	5	4	5	5	5
42.00	3	5	3	5	4	5	5	5
48.00	3	6	3	6	4	6	5	6
54.00	3	6	3	6	4	6	5	6
60.00	3	7	3	7	4	7	5	7
66.00	3	8	3	8	4	8	5	8
72.00	3	8	3	8	4	8	5	8
78.00	3	9	3	9	4	9	5	9
84.00	3	9	3	9	4	9	5	9

SIGNED: 12/14/2017

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FIN ELEVATIONS		
DRAWN N.G.	DWG NO. 08-02545	REV B
SCALE NTS	DATE 12/09/2014	SHEET 3 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-6809 rlomas@lromaspa.com		



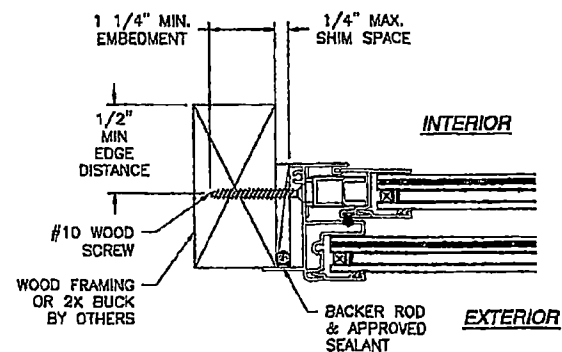
Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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

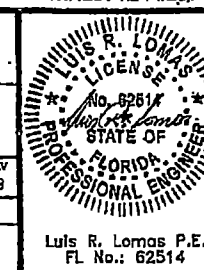
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

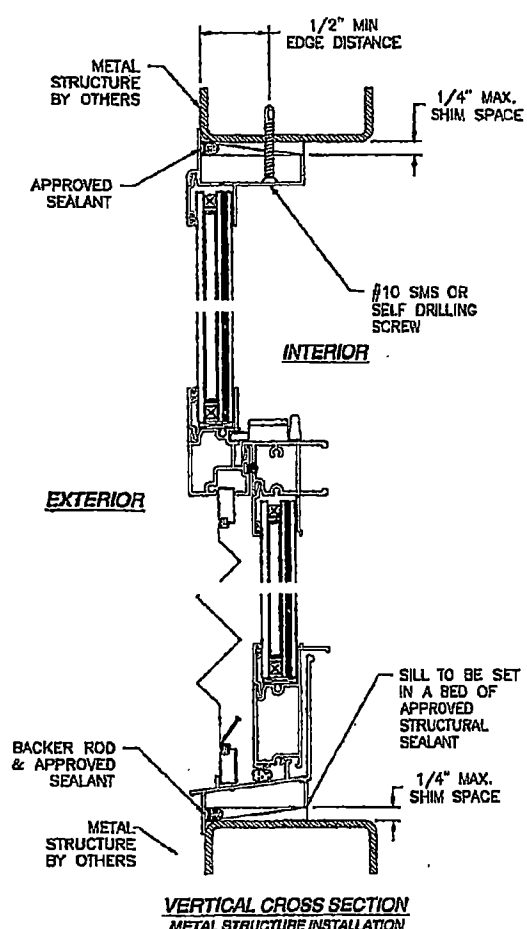


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 12/14/2017

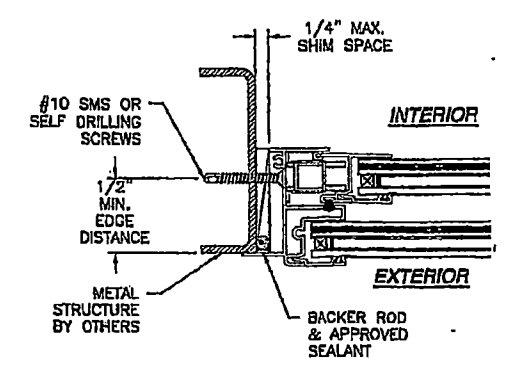
MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FLANGE INSTALLATION DETAILS			
DRAWN: N.G.	DWG NO. 08-02545	REV B	
SCALE NTS	DATE 12/09/2014	SHEET 4 OF 11	
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-689-0503 rlomas311@comcast.net			





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

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



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

SERIES 185 ALUMINUM SINGLE HUNG WINDOW
 36" X 84" - LMI
 FLANGE INSTALLATION DETAILS

DRAWN: N.G. DWG NO. 08-02545 REV B

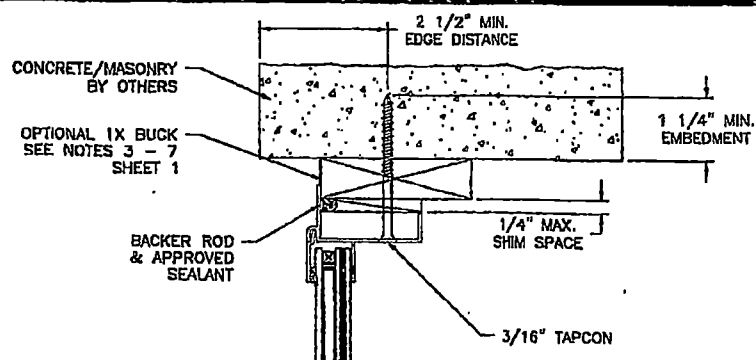
SCALE NTS DATE 12/09/2014 SHEET 5 OF 11

L. ROBERTO LOMAS P.E.
 1432 WOODFORD RD LEWISVILLE, MO 67023
 434-688-0609 rloomas@mlomaspa.com

SIGNED: 12/14/2017

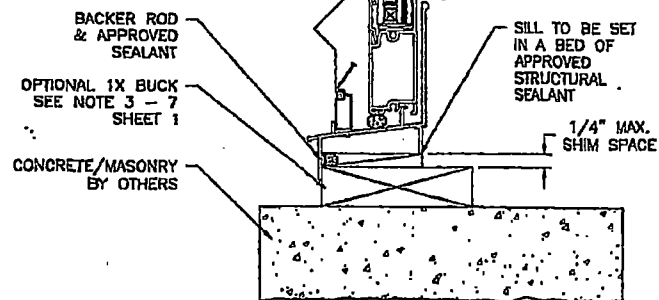
Professional Engineer Seal for Luis R. Lomas, No. 62514, State of Florida.

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

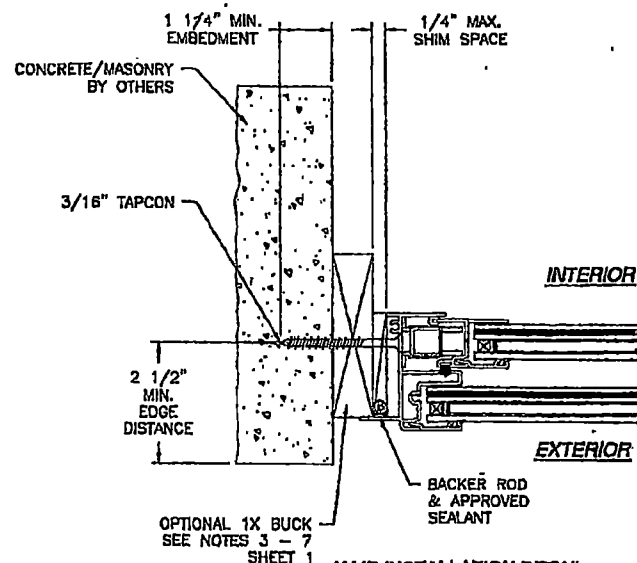


INTERIOR

EXTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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

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

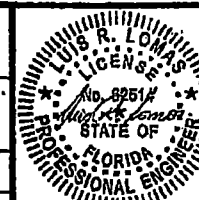
SIGNED: 12/14/2017

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

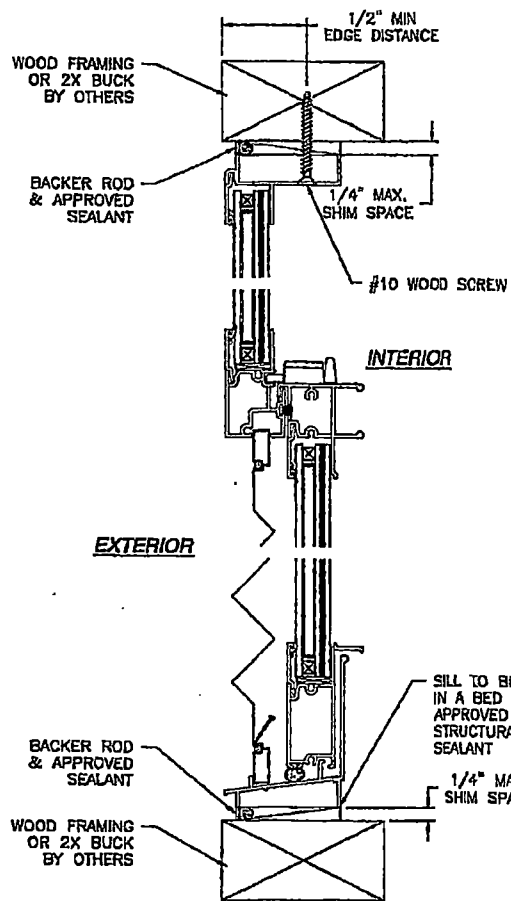
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36" X 84" - LMI
FLANGE INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
N.G.	08-02545	B
SCALE NTS	DATE 12/09/2014	SHEET 6 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NO 27023
434-688-0509 rlomas@lromaspa.com

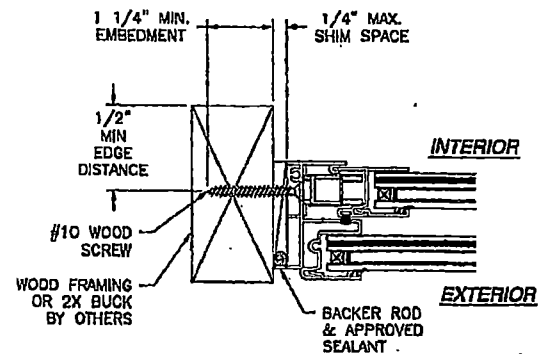


Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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

SIGNED: 12/14/2017

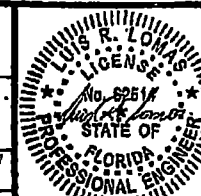
MI WINDOWS AND DOORS, LLC

650 WEST MARKET STREET
GRATZ, PA 17030-0370

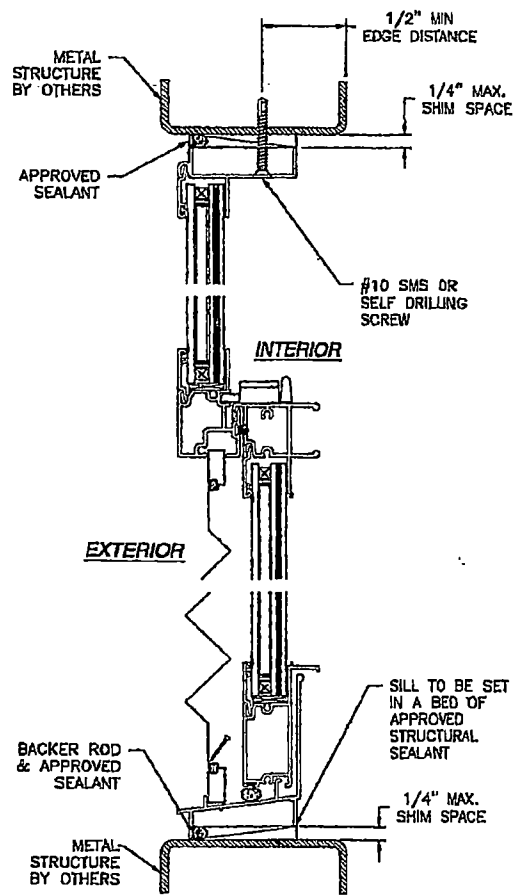
SERIES 185 ALUMINUM SINGLE HUNG WINDOW
36" X 84" - LMI
FINLESS INSTALLATION DETAILS

DRAWN: N.G.	DES. NO. 08-02545	REV B
SCALE NTS	DATE 12/09/2014	SHEET 7 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0599 rlomas@lromaspa.com



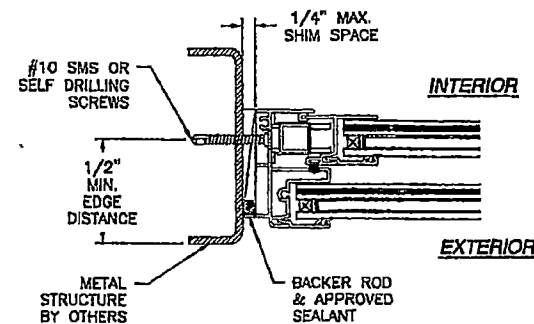
Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/18	R.L.
B	REVISED GLASS	10/02/17	R.L.



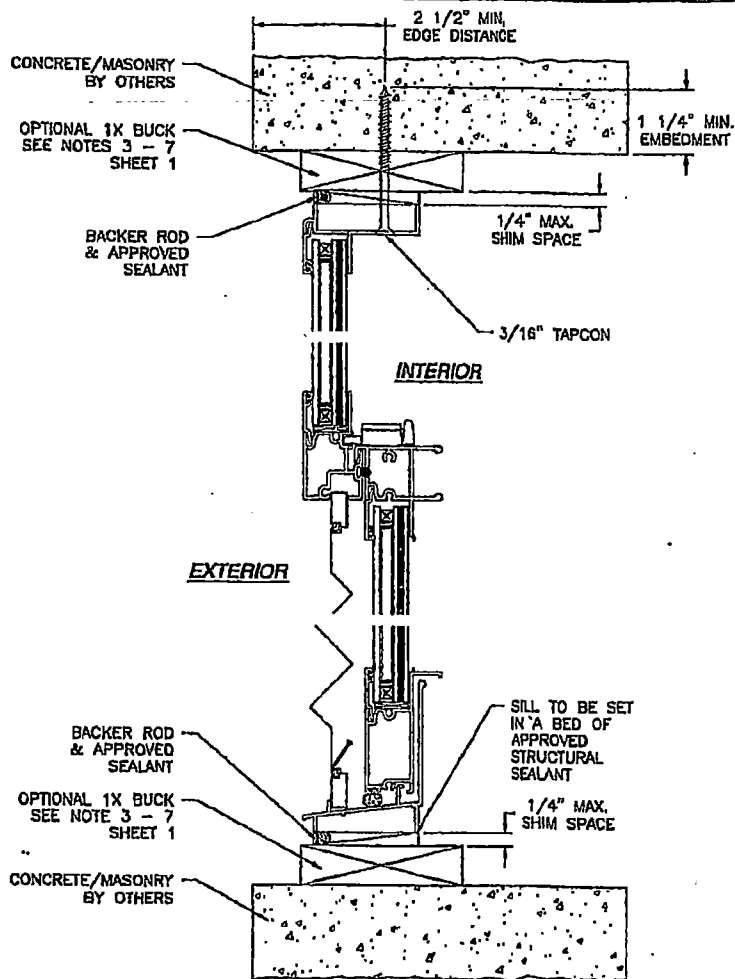
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

SIGNED: 12/14/2017

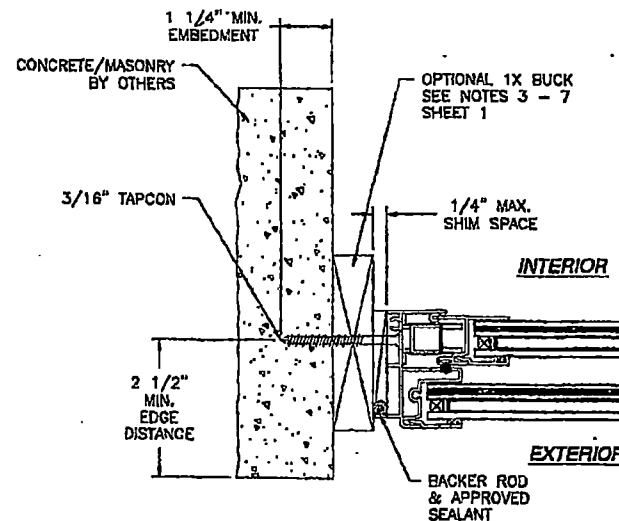
MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FINLESS INSTALLATION DETAILS		
DRAWN: N.G.	DWG NO. 08-02545	REV B
SCALE NTS	DATE 12/09/2014	SHEET 8 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0808 rldomas@mlomaspa.com		

LUIS R. LOMAS
 LICENSE
 No. 82514
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

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



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



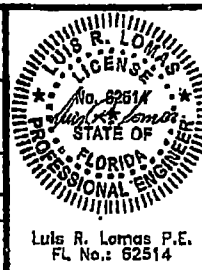
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CONCRETE/MASONRY INSTALLATION

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

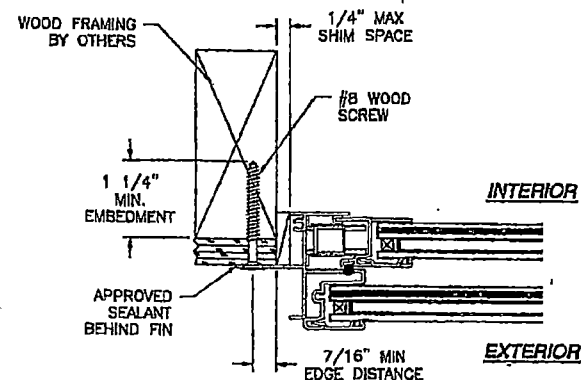
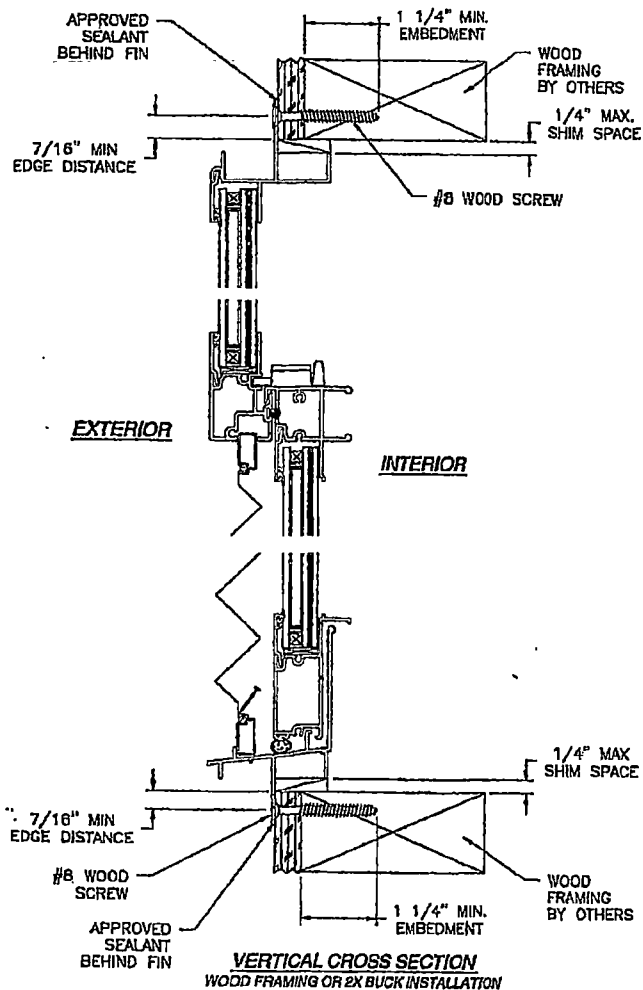
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

SIGNED: 12/14/2017

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FINLESS INSTALLATION DETAILS		
DRAWN N.G.	DWG NO. 08-02545	REV B
SCALE NTS	DATE 12/09/2014	SHEET 9 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0509 lromas@lromaspe.com		



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

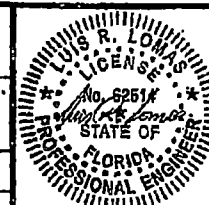


NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

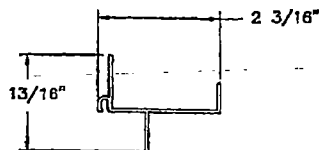
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/02/17	R.L.

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 185 ALUMINUM SINGLE HUNG WINDOW 36" X 84" - LMI FIN INSTALLATION DETAILS			
DRAWN: N.G.	DWG NO. 08-02545	REV B	
SCALE NTS	DATE 12/09/2014	SHEET 10 OF 11	
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-888-0609 lomas@lomaspa.com			

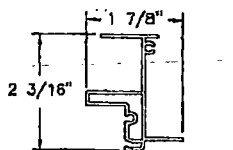
SIGNED: 12/14/2017



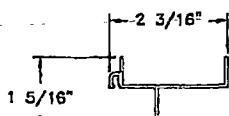
Luis R. Lomas P.E.
FL No.: 62514



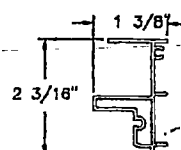
FLANGE FRAME HEAD
CM-18501
ALUMINUM 6063-T5 .050\"



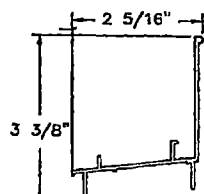
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CM-18503
ALUMINUM 6063-T5 .050\"



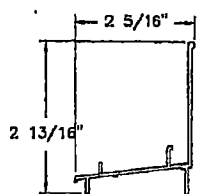
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CM-18553
ALUMINUM 6063-T5 .050\"



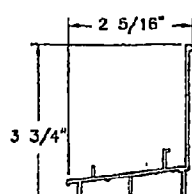
FINLESS FRAME JAMB
CM-18513
ALUMINUM 6063-T5 .050\"



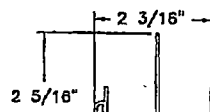
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CM-18502
ALUMINUM 6063-T5 .055\"



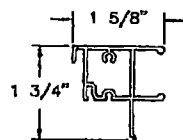
FINLESS FRAME SILL
CM-18554
ALUMINUM 6063-T5 .055\"



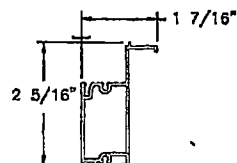
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CM-18509
ALUMINUM 6063-T5 .055\"



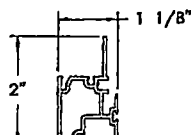
FIN FRAME HEAD
CM-18508
ALUMINUM 6063-T5 .050\"



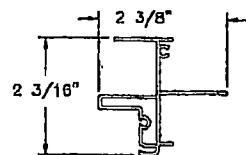
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CM-18505
ALUMINUM 6063-T5 .052\"



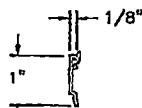
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CM-18555
ALUMINUM 6063-T5 .050\"



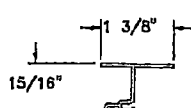
MEETING RAIL
CM-18504
ALUMINUM 6063-T5 .055\"



FIN FRAME JAMB
CM-18510
ALUMINUM 6063-T5 .050\"

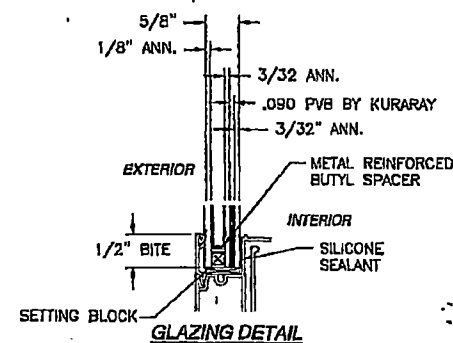


GLAZING BEAD
CM-18535
RIGID PVC .050\"



SASH STILE
CM-18507
ALUMINUM 6063-T5 .050\"

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



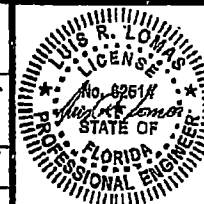
SIGNED: 12/14/2017

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

SERIES 185 ALUMINUM SINGLE HUNG WINDOW
36\"

DRAWN: N.G.	DWG NO. 08-02545	REV B
SCALE NTS	DATE 12/09/2014	SHEET 11 OF 11

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0509 rlomas@briomaspe.com



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



Product Approval
USER: Public User

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



FL #	FL21135-R5								
Application Type	Revision								
Code Version	2020								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	Therma-Tru Corporation								
Address/Phone/Email	1750 Indian Wood Circle Maumee, OH 43537 (800) 843-7628 sjasperson@thermatru.com								
Authorized Signature	Vivian Wright rickw@rwbgldgconsultants.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	12/31/2021								
Validated By	Ryan J. King, P.E. <input type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	FL21135_R5_COI_(j)_Certificate 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 E330</td> <td>2002</td> </tr> <tr> <td>ASTM E331</td> <td>2000</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM E330	2002	ASTM E331	2000	TAS 202	1994
<u>Standard</u>	<u>Year</u>								
ASTM E330	2002								
ASTM E331	2000								
TAS 202	1994								
Equivalence of Product Standards Certified By									
Sections from the Code									

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

Summary of Products

FL #	Model, Number or Name	Description
21135.1	a. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
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_R5_II_(j)_Inst 21135.1.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_Eval 21135.1.pdf Created by Independent Third Party: Yes
21135.2	b. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
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_R5_II_(j)_Inst 21135.2.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_Eval 21135.2.pdf Created by Independent Third Party: Yes
21135.3	c. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
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_R5_II_(j)_Inst 21135.3.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_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_R5_II_(j)_Inst 21135.4.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_Eval 21135.4.pdf Created by Independent Third Party: Yes
21135.5	e. Therma-Tru Benchmark Doors	Nominal 6'8 "Non-Impact" Glazed Wood Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A		Installation Instructions FL21135_R5_II_(j)_Inst 21135.5.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports

	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.)	FL21135_R5_AE_(j)_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 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_R5_II_(j)_Inst_21135.6.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_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_R5_II_(j)_Inst_21135.7.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_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_R5_II_(j)_Inst_21135.8.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_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_R5_II_(j)_Inst_21135.9.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_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_R5_II_(j)_Inst_21135.10.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_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 R5 II (j) Inst 21135.11.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.11.pdf Created by Independent Third Party: Yes
21135.12	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 R5 II (j) Inst 21135.12.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.12.pdf Created by Independent Third Party: Yes
21135.13	m. Therma-Tru Benchmark Doors	Nominal 8'0 "Non-Impact" Opaque Composite Edge "Smooth Surface" or "Wood Grain" Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
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 R5 II (j) Inst 21135.13.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.13.pdf Created by Independent Third Party: Yes
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 R5 II (j) Inst 21135.14.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) Eval 21135.14.pdf Created by Independent Third Party: Yes
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 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.)		Installation Instructions FL21135 R5 II (j) Inst 21135.15.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135 R5 AE (j) 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_R5_II_(j)_Inst_21135.16.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_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_R5_II_(j)_Inst_21135.17.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_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_R5_II_(j)_Inst_21135.18.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL21135_R5_AE_(j)_Eval_21135.18.pdf Created by Independent Third Party: Yes

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Product Approval
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FL #	FL23490-R2
Application Type	Revision
Code Version	2020
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	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	Certification Mark or Listing
Certification Agency	Keystone Certifications, Inc.
Validated By	Keystone Certifications, Inc.
Referenced Standard and Year (of Standard)	<u>Standard</u> ASTM E1592
	<u>Year</u> 2012
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	09/03/2020
Date Validated	09/09/2020
Date Pending FBC Approval	
Date Approved	09/16/2020

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/-105.0 Other:		Certification Agency Certificate FL23490_R2_C_CAC_11027-003-Rev4CertificationReport.pdf Quality Assurance Contract Expiration Date 09/02/2025 Installation Instructions FL23490_R2_II_11027-003-Rev2CertificationReport.pdf Verified By: Keystone Certifications, Inc. Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

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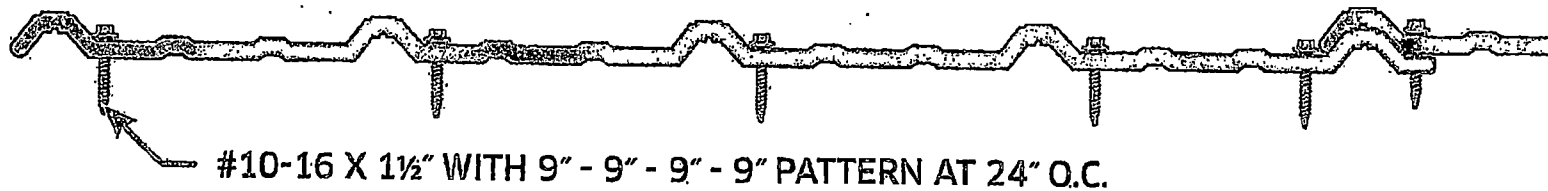
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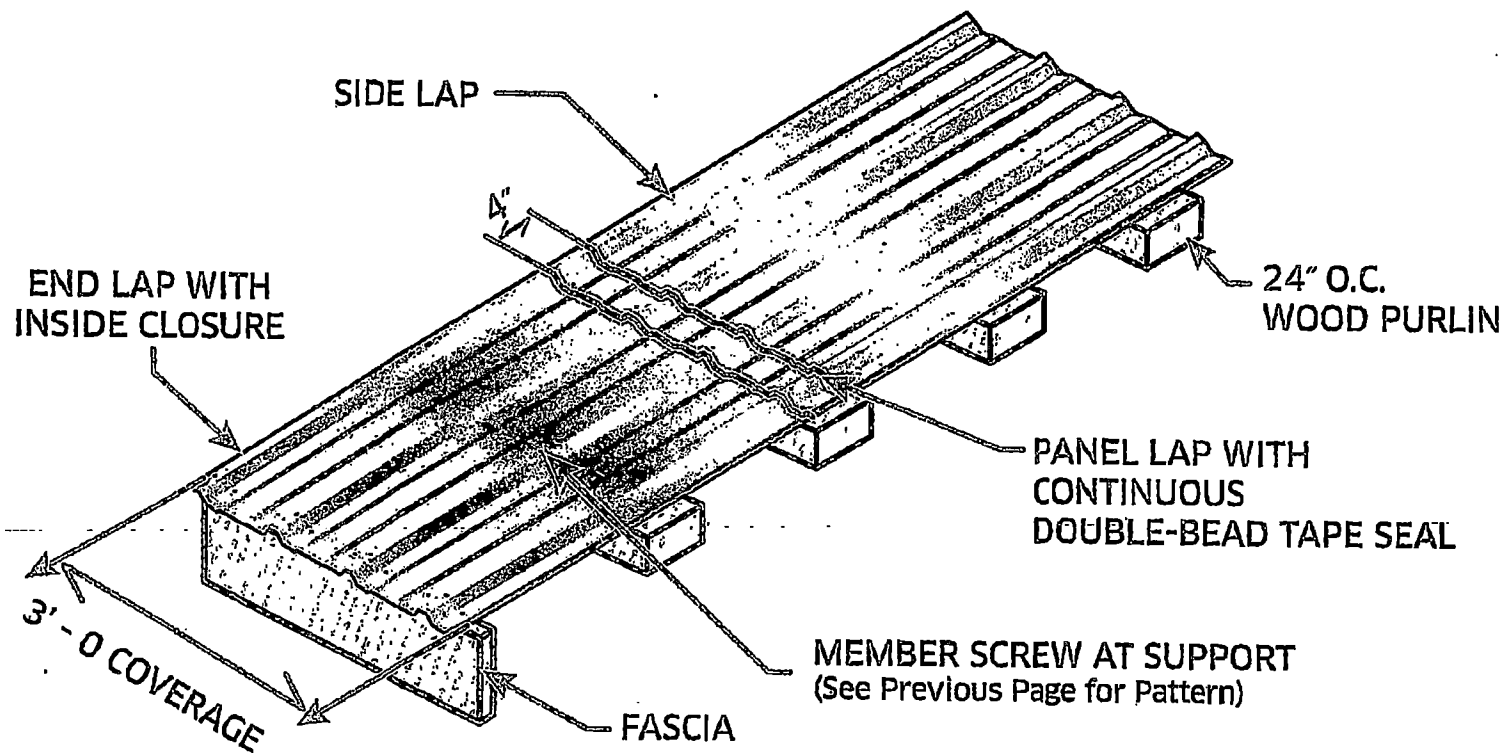
SECURITYMETRICS

Multi-Rib Panel Open Frame Fastener Standard Pattern



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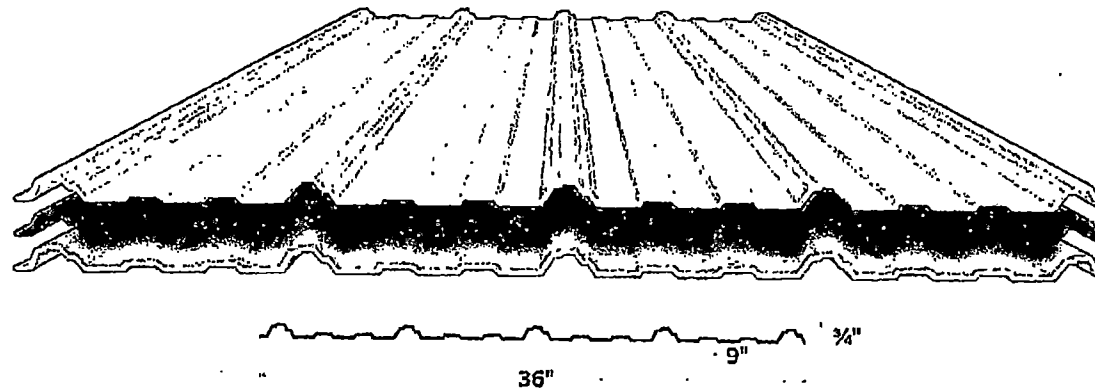
Multi-Rib Panel Detail Over Open Framing



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Multi-Rib

Over Minimum 2x4 Open Framing Installation Instructions





Product Approval
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FL #	FL23490-R2	
Application Type	Revision	
Code Version	2020	
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	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	Certification Mark or Listing	
Certification Agency	Keystone Certifications, Inc.	
Validated By	Keystone Certifications, Inc.	
Referenced Standard and Year (of Standard)	Standard ASTM E1592	Year 2012
Equivalence of Product Standards Certified By		
Product Approval Method	Method 1 Option A	
Date Submitted	09/03/2020	
Date Validated	09/09/2020	
Date Pending FBC Approval		
Date Approved	09/16/2020	

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/-105.0 Other:		Certification Agency Certificate FL23490_R2_C_CAC_11027-003-Rev4CertificationReport.pdf Quality Assurance Contract Expiration Date 09/02/2025 Installation Instructions FL23490_R2_IL_11027-003-Rev2CertificationReport.pdf Verified By: Keystone Certifications, Inc. Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

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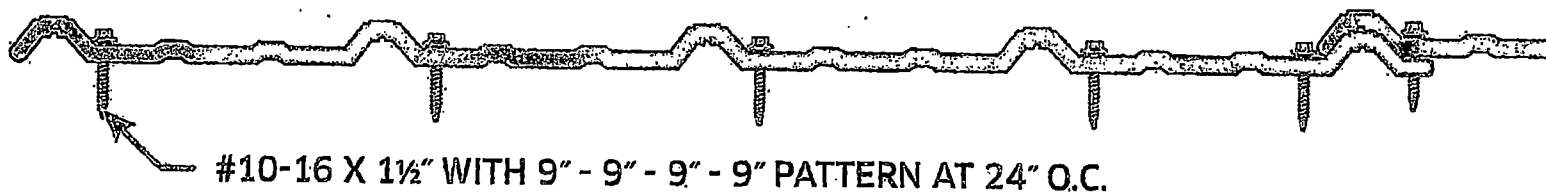
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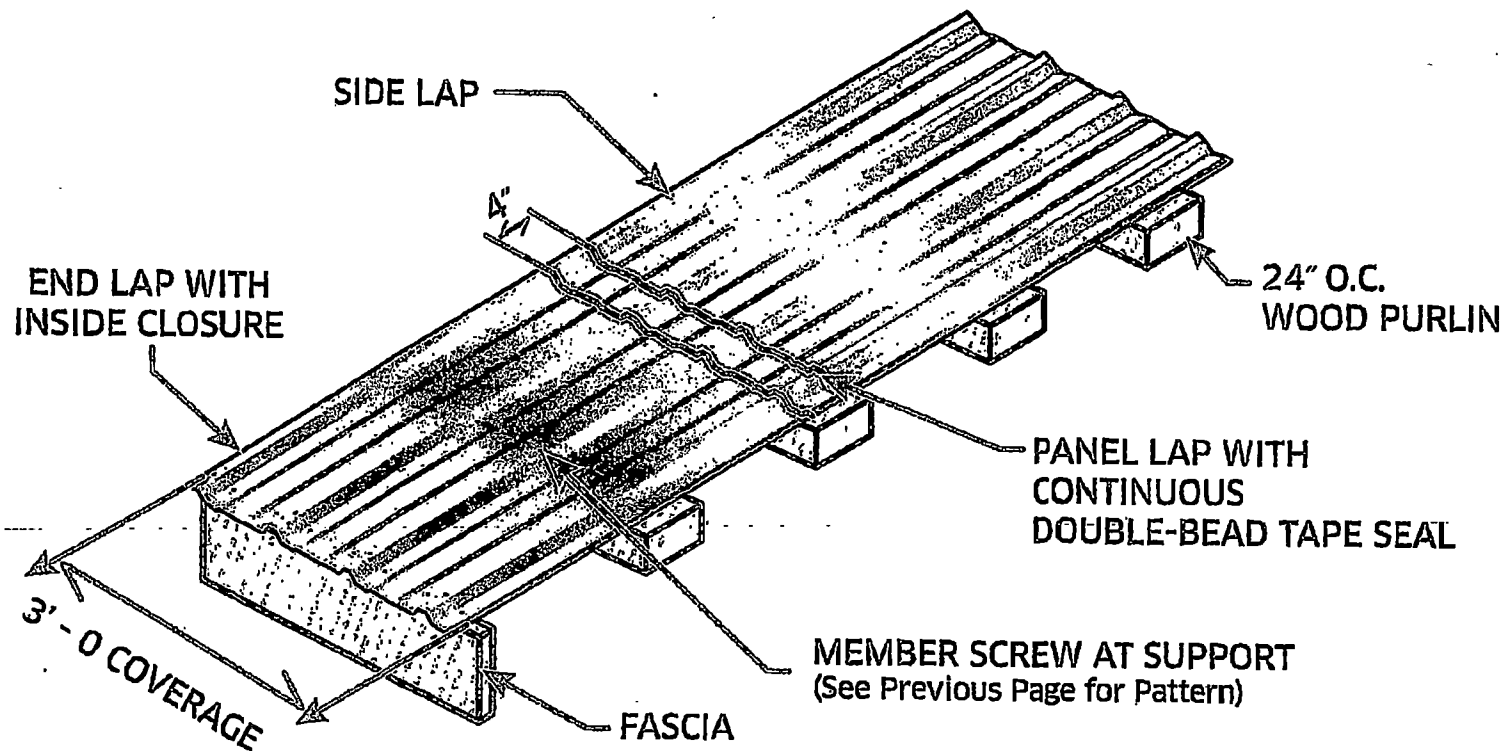
SECURITYMETRICS

Multi-Rib Panel Open Frame Fastener Standard Pattern



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Multi-Rib

Over Minimum 2x4 Open Framing Installation Instructions

