



Product Approval
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OFFICE OF THE
SECRETARY

FL # FL13494-R9

Application Type Revision

Code Version 2020

Application Status Approved

Comments

Archived ☐

Product Manufacturer ProVia Door, Inc.

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Technical Representative Cory Mast

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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
☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report Luis Roberto Lomas

Florida License PE-62154

Quality Assurance Entity National Accreditation and Management Institute

Quality Assurance Contract Expiration Date 12/31/2021

Validated By Steven M. Urich, PE
☒ Validation Checklist - Hardcopy Received

Certificate of Independence [FL13494_R9_COI_FLCOI.pdf](#)

13494.1

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM E1886	2012
	ASTM E1996	2012
	ASTM E330	2002

Equivalence of Product Standards
Certified By

Sections from the Code

Date Submitted 10/15/2020
 Date Validated 10/16/2020
 Date Pending FBC Approval 10/25/2020
 Date Approved 12/15/2020

Summary of Products

FL #	Model, Number or Name	Description
13494.1	20GA STEEL ENTRY DOOR (GLAZED)	20GA GLAZED STEEL ENTRY DOOR IS/OS SINGLE
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +80/-80 Other:		Installation Instructions FL13494 R9 II 08-01116E.pdf Verified By: Luis Roberto Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL13494 R9 AE 511679G.pdf Created by Independent Third Party: Yes
13494.2	20GA STEEL ENTRY DOOR (OPAQUE)	20GA STEEL ENTRY DOOR IS/OS
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +51/-51 Other: REFER TO INSTALLATION INSTRUCTIONS FOR APPROVED CONFIGURATIONS.		Installation Instructions FL13494 R9 II 08-00905D.pdf Verified By: Luis R. Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL13494 R9 AE 511456G.pdf Created by Independent Third Party: Yes
13494.3	20GA STEEL ENTRY DOOR (OPAQUE)	20GA STEEL ENTRY DOOR IS/OS W/ AND W/OUT SIDELITES
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +45/-51 Other: REFER TO INSTALLATION INSTRUCTIONS FOR APPROVED CONFIGURATIONS.		Installation Instructions FL13494 R9 II 08-00950E.pdf Verified By: Luis R. Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL13494 R9 AE 511506H.pdf Created by Independent Third Party: Yes
13494.4	PREMIUM FIBERGLASS DOOR (GLAZED)	PREMIUM GLAZED FIBERGLASS DOOR IS/OS SINGLE
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +85/-85 Other:		Installation Instructions FL13494 R9 II 08-01098E.pdf Verified By: Luis Roberto Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL13494 R9 AE 511658G.pdf Created by Independent Third Party: Yes
13494.5	PREMIUM FIBERGLASS DOOR (OPAQUE)	PREMIUM FIBERGLASS DOOR IS/OS W/ AND W/OUT SIDELITES
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +45/-51 Other: REFER TO INSTALLATION INSTRUCTIONS FOR APPROVED CONFIGURATIONS.		Installation Instructions FL13494 R9 II 08-00904D.pdf Verified By: Luis R. Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL13494 R9 AE 511455G.pdf Created by Independent Third Party: Yes

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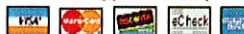
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Product Approval Accepts:



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. WOOD 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" 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. 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 UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR $C_d=1.6$ WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: WOOD C .46 MINIMUM OR FRAMESAVER, OR FUSION FRAME.
12. UNITS MUST BE GLAZED PER ASTM E1300-04/09, WITH SAFETY GLAZING.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #8 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 MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #8 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.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD: MINIMUM SPECIFIC GRAVITY OF $G=0.42$
 - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH $F_m=2,000$ PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") $F_y=33$ KSI/ $F_u=52$ KSI OR ALUMINUM 6063-T5 $F_u=30$ KSI .048" THICK MINIMUM
19. DOOR PANEL MATERIAL: 20GA. (.040" THICK MINIMUM) FORMED STEEL WITH FIBERGLASS TOP AND BOTTOM RAIL .0938" THICK.
20. UNITS MAY BE INSTALLED WITH EITHER SCHLAGE F-SERIES DOOR KNOB WITH F-SERIES OR B-SERIES DEADBOLT, EMTEK RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY OR TRILENNIUM MULTI-POINT HARDWARE. SEE HARDWARE SCHEDULE SHEET 3 FOR APPROVED HARDWARE.

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1	NOTES
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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681			
20GA. GLAZED STEEL DOOR IS/OS 3'0 x 6'8 SINGLE - NON-IMPACT NOTES	DWG NO. 08-01116	REV E	
DRAWN: TJH	DATE 09/07/10	SHEET 1 OF 17	
SCALE NTS			
L ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0808 rlomas@rlomaspe.com			

SIGNED: 01/08/2020



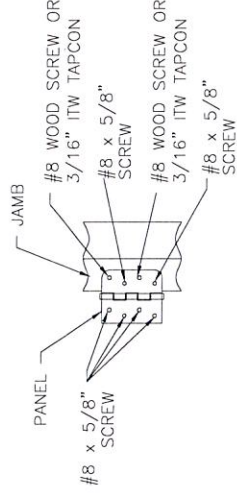
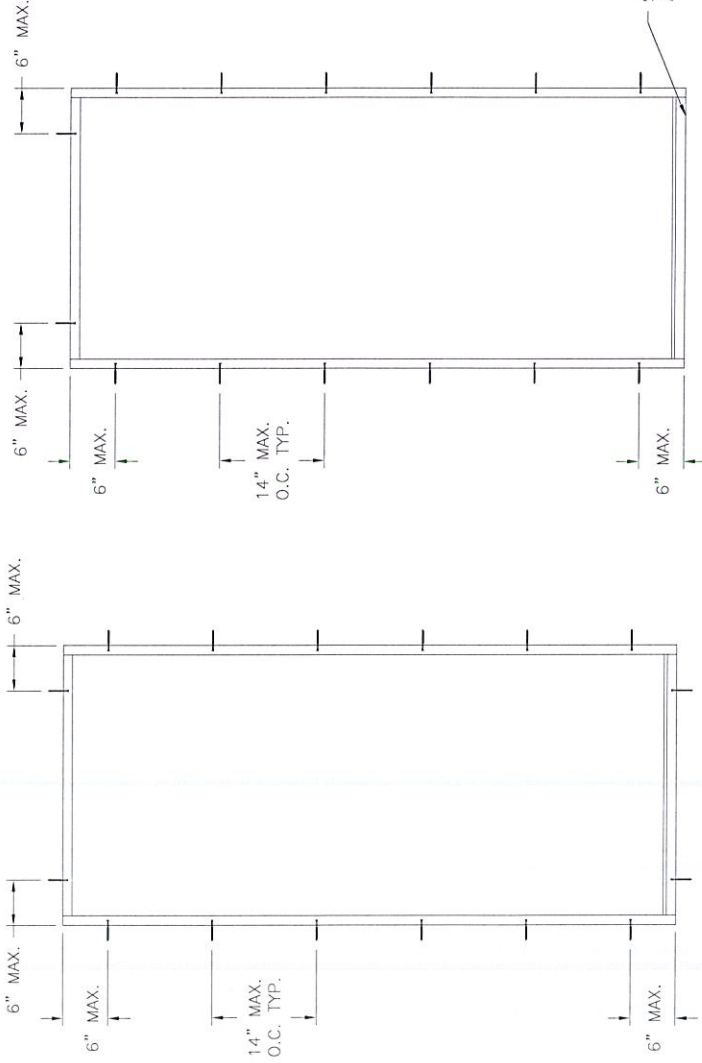
Luis R. Lomas P.E.
FL No.: 62514

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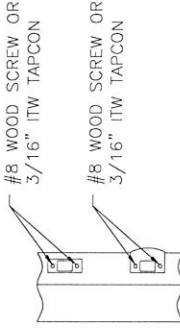
REV	DESCRIPTION	DATE	APPROVED
E	ADDED SILLS	12/31/19	R.L.

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REV	DESCRIPTION	DATE	APPROVED
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DETAIL A HINGE DETAIL



DETAIL B STRIKE DETAIL

INSWING/OUTSWING ANCHORING LAYOUT
OPTIONAL SILL INSTALLATION

INSWING/OUTSWING ANCHORING LAYOUT
STANDARD SILL INSTALLATION

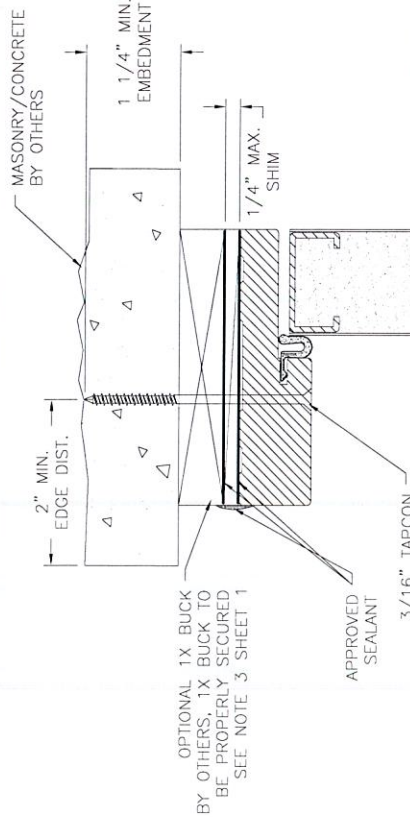
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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0809 rlomas@rlomaspe.com	
DRAWN: TJH	DATE 09/07/10	DMC NO. 08-01116	REV E
SCALE NTS	SHEET 3	OF 17	



HARDWARE SCHEDULE

- A. F-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE.
- B. B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE.
- C. F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE.
- D. RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE).
- E. MULTI-POINT LOCK HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE).
- F. (3) 4" STEEL BUTT HINGES.
- G. (3) 4" x 4" SPRING BOMMER HINGES BY PENROD.

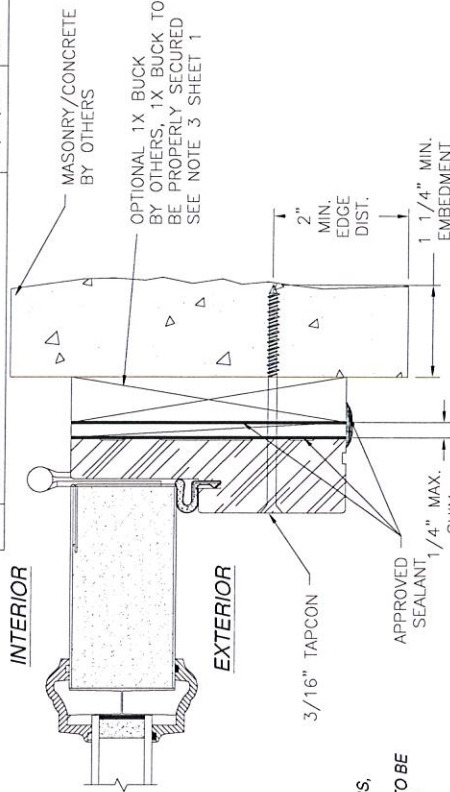


- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

INTERIOR

EXTERIOR

HORIZONTAL CROSS SECTION INSWING
MASONRY/CONCRETE INSTALLATION
HINGE JAMB SHOW, STRIKE JAMB SIMILAR

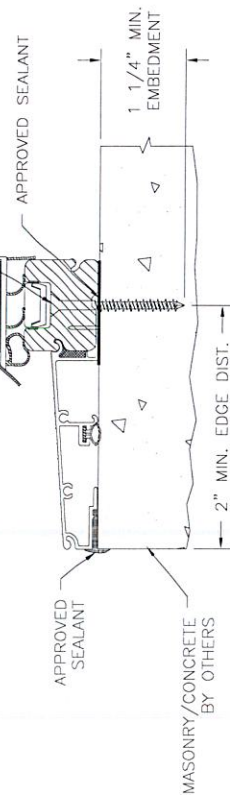


FULL BED OF APPROVED
STRUCTURAL SEALANT

APPROVED
SEALANT

MASONRY/
CONCRETE
BY OTHERS

VERTICAL CROSS SECTION INSWING
OPTIONAL SILL INSTALLATION
MASONRY/CONCRETE INSTALLATION

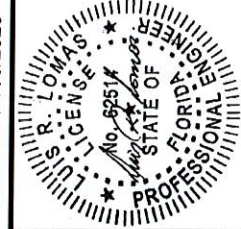


VERTICAL CROSS SECTION INSWING
STANDARD SILL INSTALLATION
MASONRY/CONCRETE INSTALLATION

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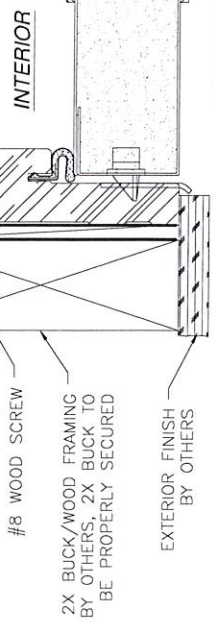
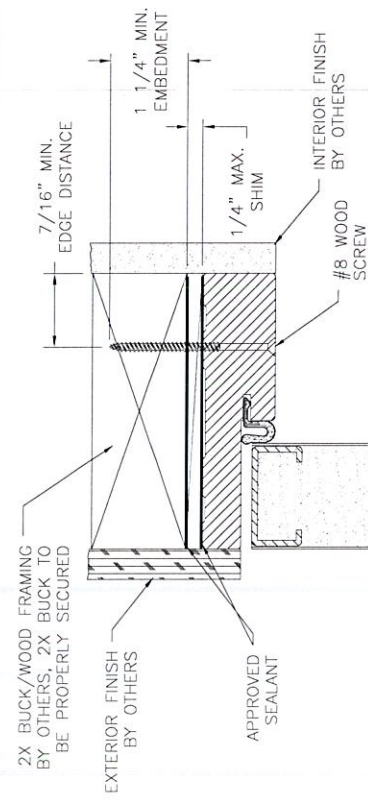
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PROVIA, LLC.			
2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681			
20GA. GLAZED STEEL DOOR IS/OS 3'0" x 6'8" SINGLE - NON-IMPACT INSWING INSTALLATION DETAILS			
DRAWN: TJH	DWG NO. 08-01116	REV E	
SCALE NTS	DATE 09/07/10	SHEET 6	OF 17
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-686-0609 rlomas@rlomaspe.com			

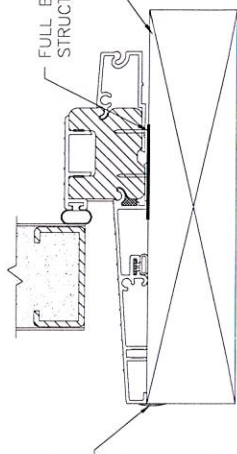


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HORIZONTAL CROSS SECTION OUTSWING
2X BUCK/WOOD FRAMING
STRIKE JAMB SHOWN, HINGE JAMB SIMILAR



VERTICAL CROSS SECTION OUTSWING
OPTIONAL SILL INSTALLATION
2X BUCK/WOOD FRAMING

- NOTES:
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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 01/08/2020

PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. GLAZED STEEL DOOR IS/OS
3'0" x 6'8" SINGLE - NON-IMPACT
OUTSWING INSTALLATION DETAILS

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DATE: 09/07/10

SCALE: NTS

REV: E

DATE: 08-01116

SHEET: 7 OF 17

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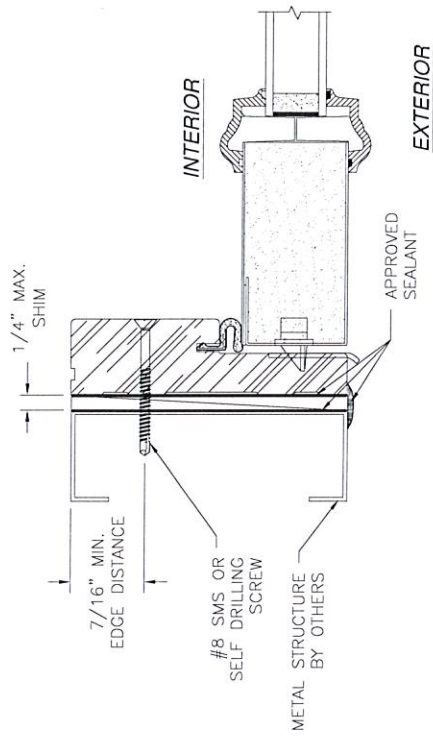
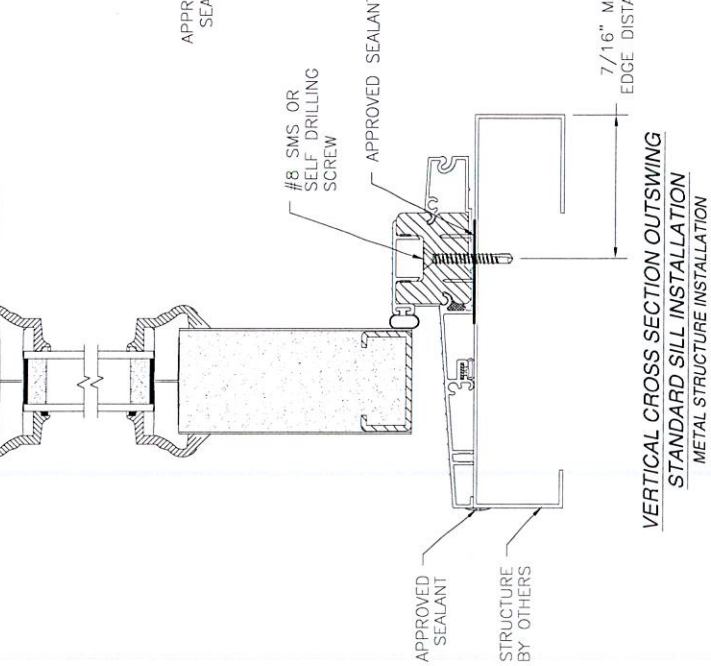
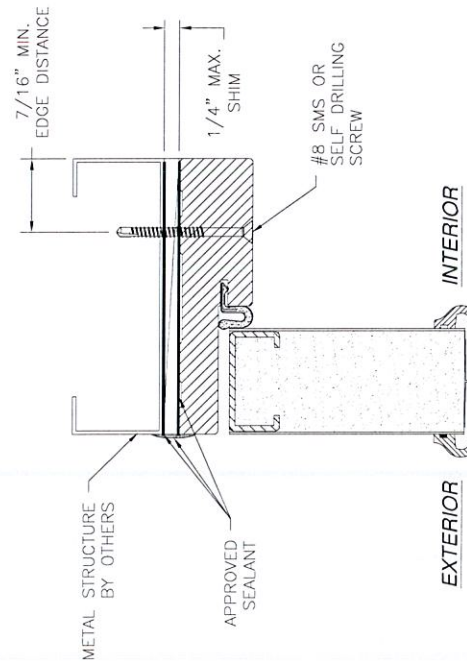
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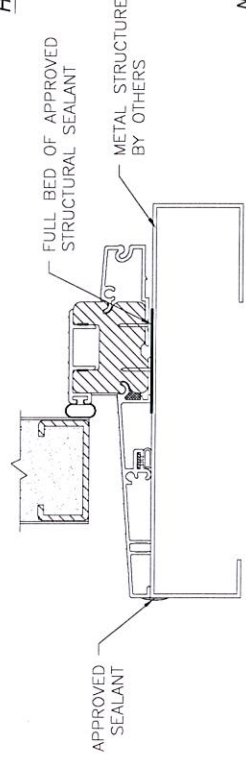
VERTICAL CROSS SECTION OUTSWING
STANDARD SILL INSTALLATION
2X BUCK/WOOD FRAMING

REVISIONS

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HORIZONTAL CROSS SECTION OUTSWING
METAL STRUCTURE INSTALLATION
STRIKE JAMB SHOWN, HINGE JAMB SIMILAR



VERTICAL CROSS SECTION OUTSWING
OPTIONAL SILL INSTALLATION
METAL STRUCTURE INSTALLATION

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PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. GLAZED STEEL DOOR IS/OS
3'0 x 6'8 SINGLE - NON-IMPACT
OUTSWING INSTALLATION DETAILS

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DATE: 09/07/10

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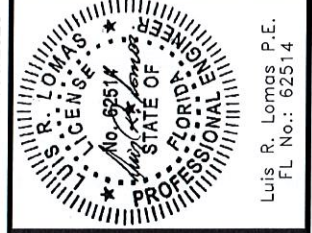
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SHEET: 8 OF 17

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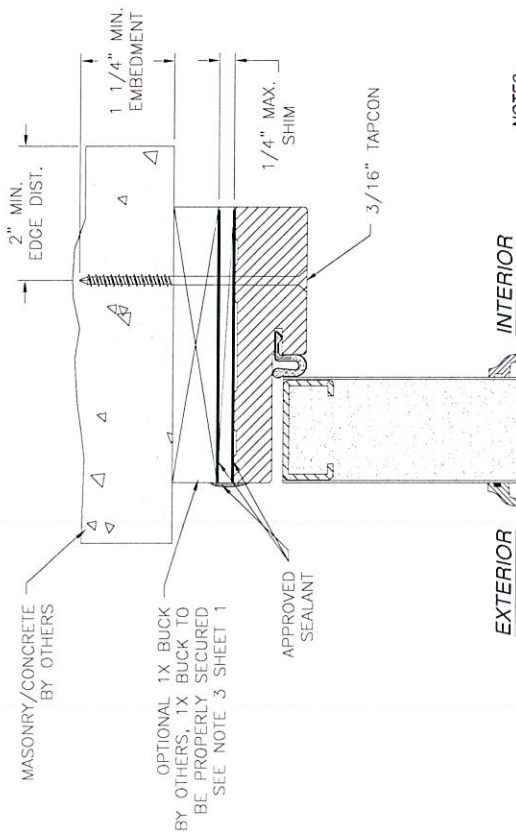
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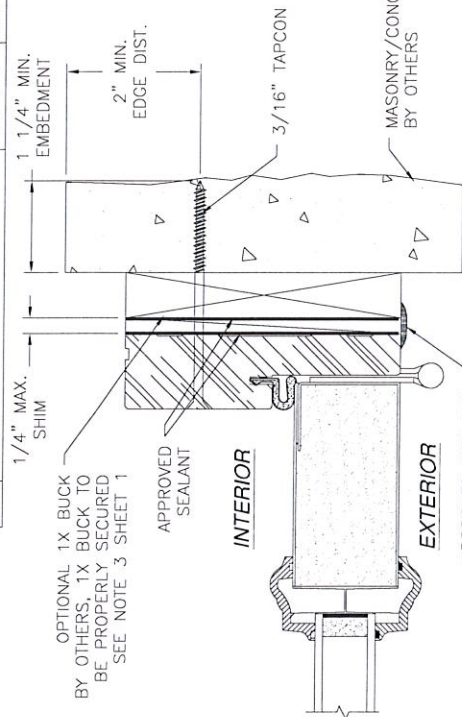
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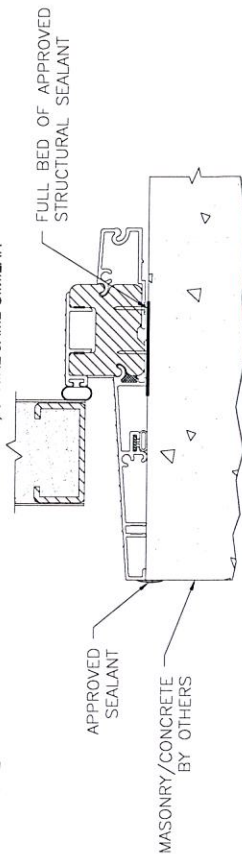
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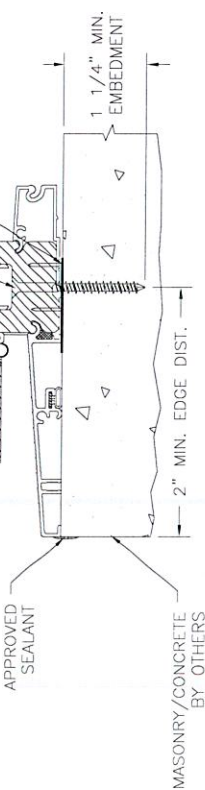
HORIZONTAL CROSS SECTION OUTSWING

MASONRY/CONCRETE INSTALLATION
HINGE JAMB SHOWN, STRIKE JAMB SIMILAR



VERTICAL CROSS SECTION OUTSWING

OPTIONAL SILL INSTALLATION
MASONRY/CONCRETE INSTALLATION



VERTICAL CROSS SECTION OUTSWING

STANDARD SILL INSTALLATION
MASONRY/CONCRETE INSTALLATION

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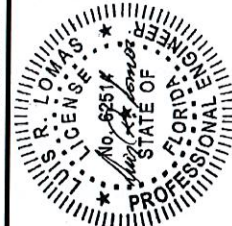
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. GLAZED STEEL DOOR IS/OS
3'0" x 6'8" SINGLE - NON-IMPACT
OUTSWING INSTALLATION DETAILS

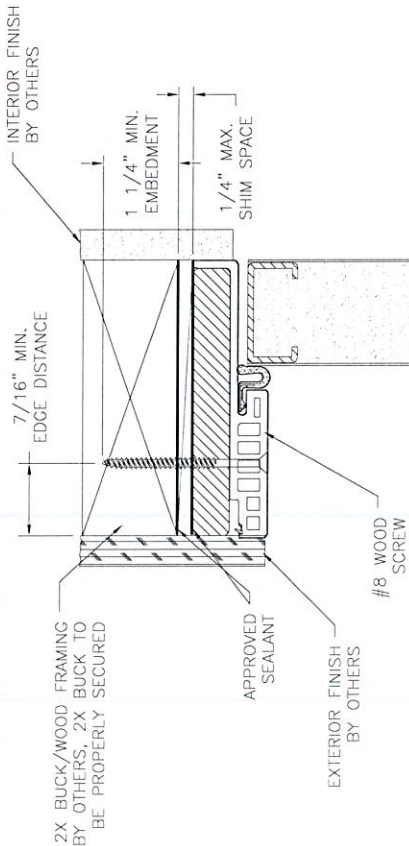
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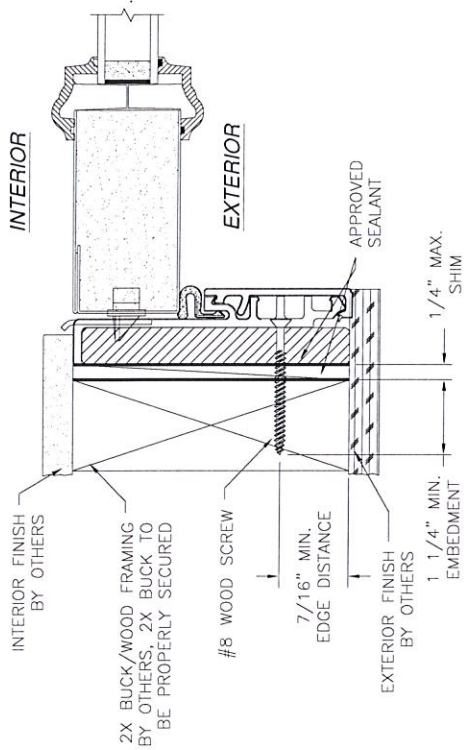


EXTERIOR

INTERIOR

HORIZONTAL CROSS SECTION INSWING

2X BUCKWOOD FRAMING
STRIKE JAMB SHOWN, HINGE JAMB SIMILAR

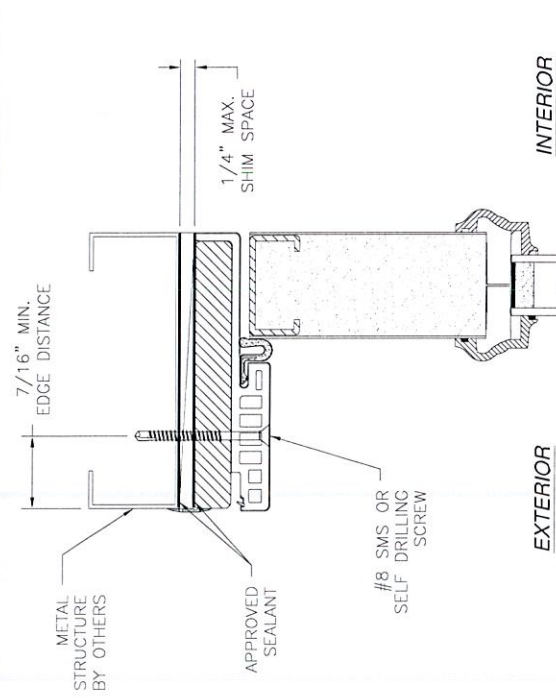


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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
20GA. GLAZED STEEL DOOR IS/OS 3'0" x 6'8" SINGLE - NON-IMPACT INSWING W/FUSION FRAME INSTALLATION DETAILS		
DRAWN: TJH	DWG NO. 08-01116	REV E
SCALE NTS	DATE 09/07/10	SHEET 10 OF 17
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rloomas@lomaspe.com		
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HORIZONTAL CROSS SECTION INSWING
METAL STRUCTURE
STRIKE JAMB SHOWN, HINGE JAMB SIMILAR

- NOTES:
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PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. GLAZED STEEL DOOR IS/OS
3'0" x 6'8" SINGLE - NON-IMPACT
INSWING W/FUSION FRAME INSTALLATION DETAILS

DRAWN:
TJH

DATE
09/07/10

SCALE
NTS

DWG NO.
08-01116

DATE
09/07/10

DATE
08-01116

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SHEET
11 OF 17

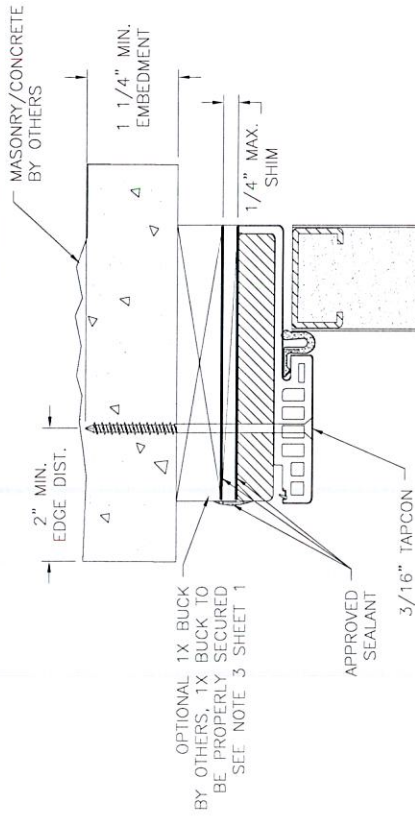
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Luis R. Lomas P.E.
FL No.: 62514

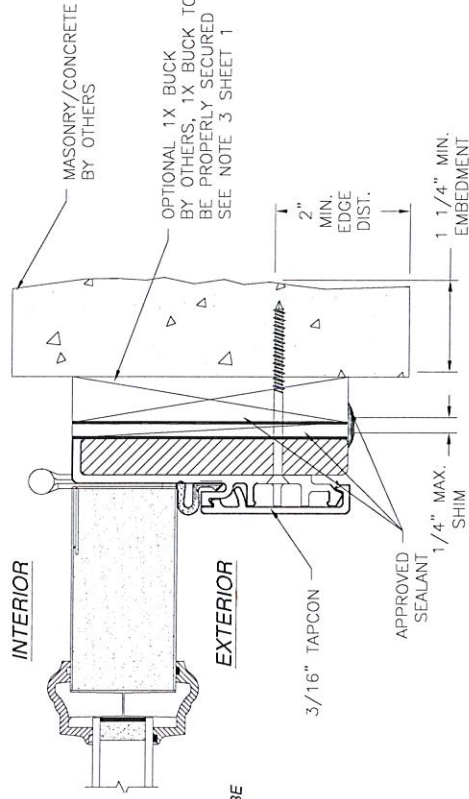
VERTICAL CROSS SECTION INSWING
STANDARD SILL INSTALLATION
METAL STRUCTURE

REVISIONS

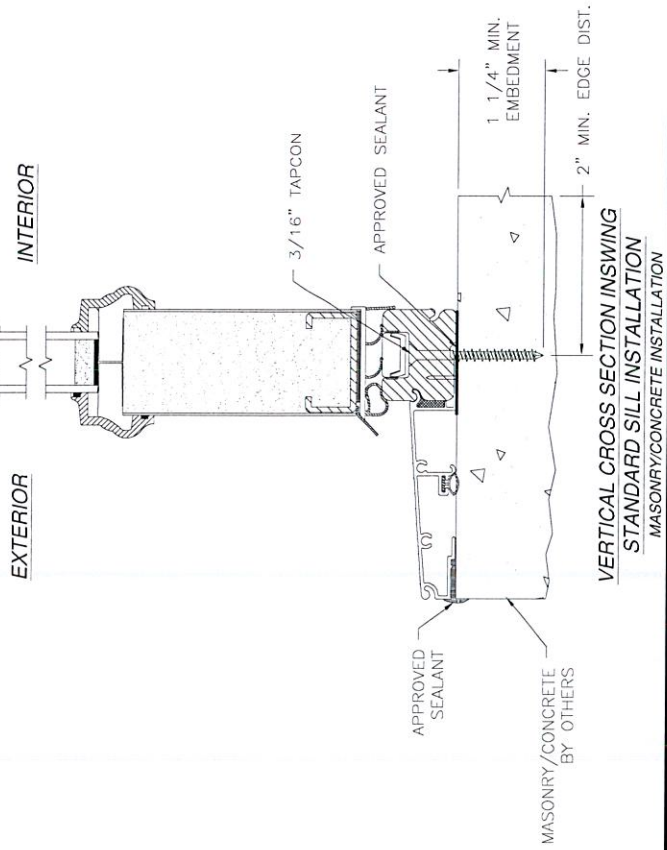
REV	DESCRIPTION	DATE	APPROVED
E	ADDED SILLS	12/31/19	R.L.



- 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



HORIZONTAL CROSS SECTION INSWING
MASONRY/CONCRETE INSTALLATION
HINGE JAMB SHOW, STRIKE JAMB SIMILAR



VERTICAL CROSS SECTION INSWING
STANDARD SILL INSTALLATION
MASONRY/CONCRETE INSTALLATION

SIGNED: 01/08/2020

PROVIA, LLC.

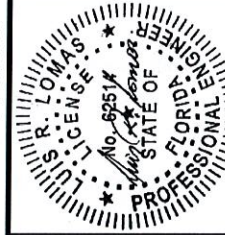
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. GLAZED STEEL DOOR IS/OS
3'0 x 6'8 SINGLE - NON-IMPACT
INSWING W/FUSION FRAME INSTALLATION DETAILS

DRAWN:	DATE	DWG NO.	REV
TJH	09/07/10	08-01116	E
SCALE	NTS	SHEET 12 OF 17	

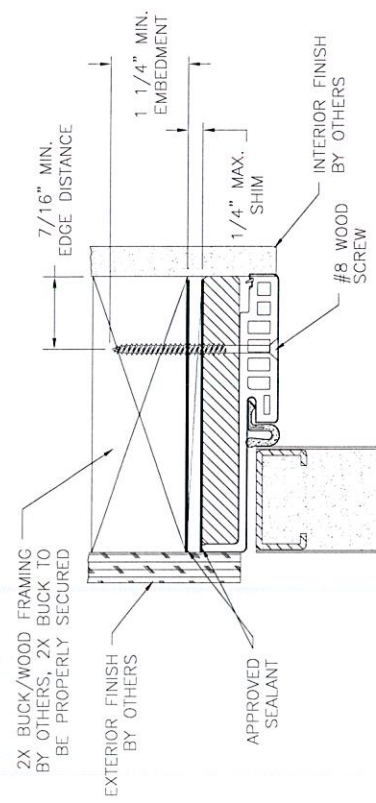
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD. LEWISVILLE, NC 27023
434-688-0609 rlomas@rlomaspe.com

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

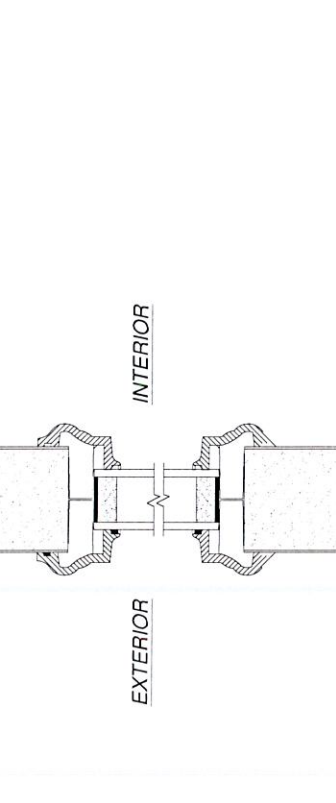


REVISIONS

REV	DESCRIPTION	DATE	APPROVED
E	ADDED SILLS	12/31/19	R.L.



VERTICAL CROSS SECTION OUTSWING
STANDARD SILL INSTALLATION
2X BUCK/WOOD FRAMING



HORIZONTAL CROSS SECTION OUTSWING
2X BUCK/WOOD FRAMING
STRIKE JAMB SHOWN, HINGE JAMB SIMILAR

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

SIGNED: 01/08/2020

PROVIA, LLC.

2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. GLAZED STEEL DOOR IS/OS
3'0" x 6'8" SINGLE - NON-IMPACT
OUTSWING W/FUSION FRAME INSTALLATION DETAILS

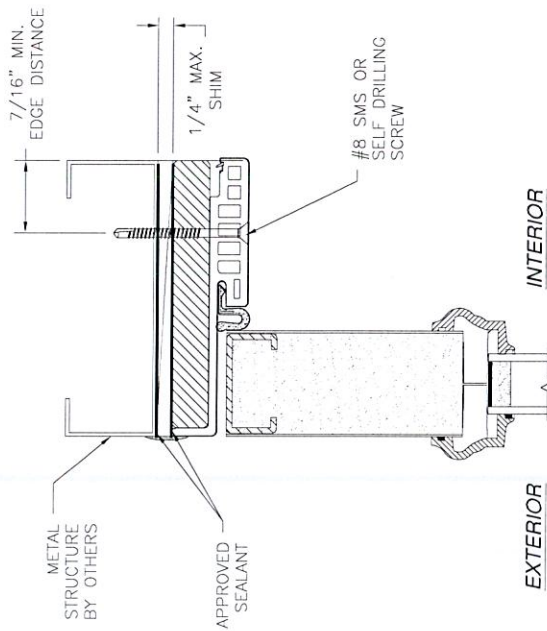
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SCALE: NTS
DATE: 09/07/10
DWG NO.: 08-01116
REV: E
SHEET: 13 OF 17

L. ROBERTO LOMAS P.E.
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LUIS R. LOMAS
P.E.
FL No.: 62514

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
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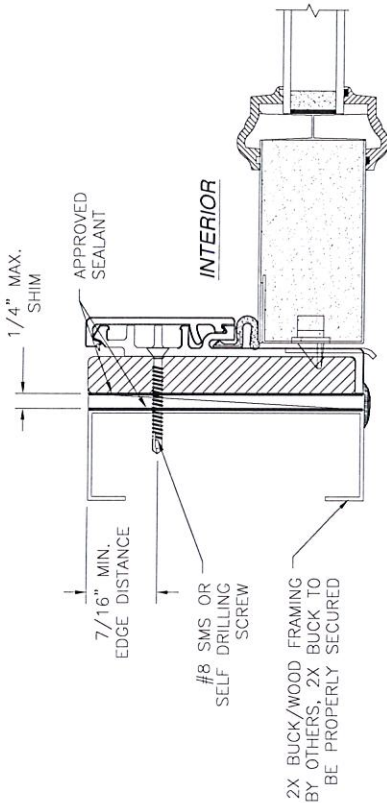
EXTERIOR

INTERIOR

EXTERIOR

HORIZONTAL CROSS SECTION OUTSWING

METAL STRUCTURE
STRIKE JAMB SHOWN, HINGE JAMB SIMILAR



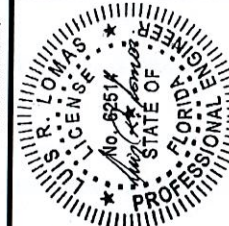
#8 SMS OR
SELF DRILLING
SCREW

2X BUCK/WOOD FRAMING
BY OTHERS, 2X BUCK TO
BE PROPERLY SECURED

- 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 E212

SIGNED: 01/08/2020

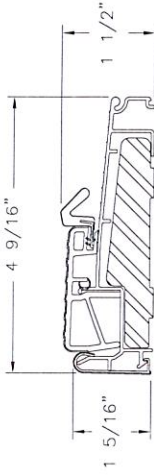
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DRAWN: TJH	REV E
SCALE NTS	DATE 09/07/10
DATE 08-01116	SHEET 14 OF 17
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rlomas@rlomaspe.com	



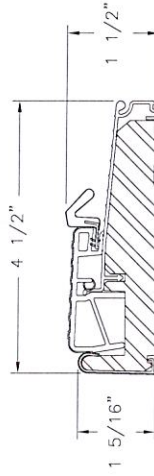
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS

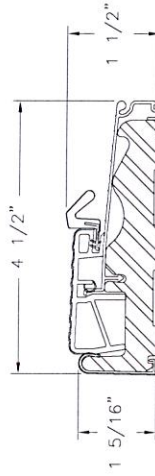
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E	ADDED SILLS	12/31/19	R.L.



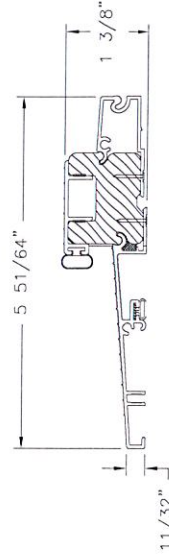
OUTSWING SILL ZOB4565



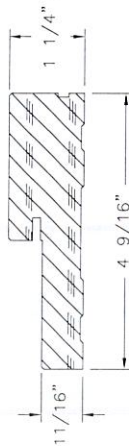
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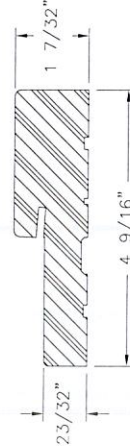
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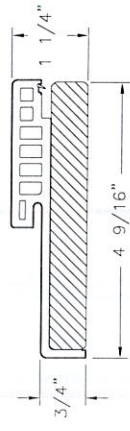
OUTSWING SILL



FRAME
WOOD G.46 MIN.



FRAMESAVER
COMPOSITE



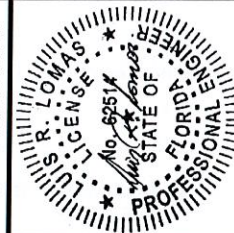
HYBRID HEAD
WOOD/COMPOSITE



HYBRID JAMB
WOOD/COMPOSITE

SIGNED: 01/08/2020

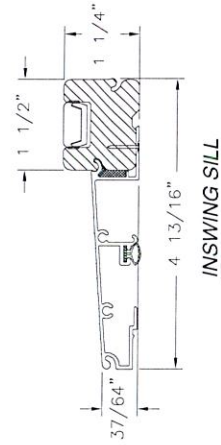
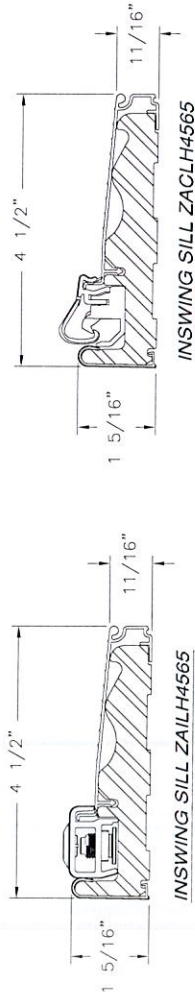
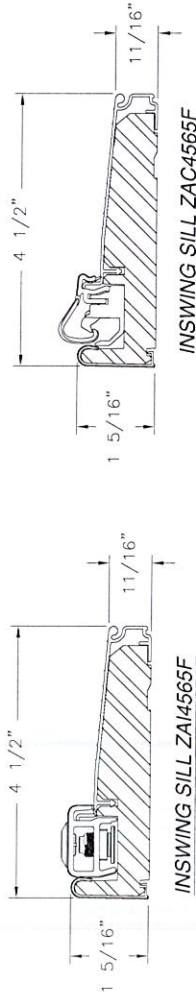
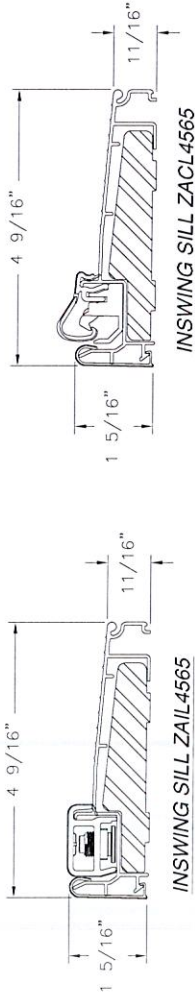
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681			
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DRAWN: TJH	DATE 09/07/10	DMG NO. 08-01116	REV E
SCALE NTS	SHEET 16 OF 17		
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rlomas@rlomaspe.com			



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

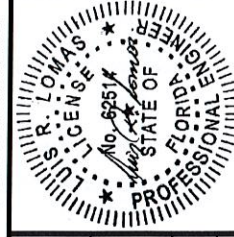
REVISIONS

REV	DESCRIPTION	DATE	APPROVED
E	ADDED SILLS	12/31/19	R.L.



SIGNED: 01/08/2020

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681			
20GA. GLAZED STEEL DOOR IS/OS 3'0 x 6'8 SINGLE - NON-IMPACT COMPONENTS			
DRAWN: TJH	DATE 09/07/10	DWG. NO. 08-01116	REV E
SCALE NTS	SHEET 17 OF 17		
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rlomas@rlomaspe.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**

OFFICE OF THE
SECRETARY

FL #

FL28486-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.

28486.1

Comments

Archived

Product Manufacturer

Regency Plus Inc

Address/Phone/Email

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Mount Carmel, PA 17851
(570) 339-3374
tony@cwbyrpi.com

Authorized Signature

Tony Procopio
tony@cwbyrpi.com

Technical Representative

Tony Procopio

Address/Phone/Email

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Mount Carmel, PA 17851
(570) 339-3374
tony@cwbyrpi.com

Quality Assurance Representative

Address/Phone/Email

Category

Windows

Subcategory

Double Hung

Compliance Method

Certification Mark or Listing

Certification Agency

National Accreditation & Management Institute

Validated By

National Accreditation & Management Institute

Referenced Standard and Year (of Standard)

Standard

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

Year

2011

Equivalence of Product Standards
Certified By

Product Approval Method

Method 1 Option A

Date Submitted

11/06/2020

Date Validated

11/09/2020

Date Pending FBC Approval

Summary of Products

FL #	Model, Number or Name	Description
28486.1	Series 8313 Vinyl Tilt Double Hung Window	Series 8313 Vinyl Tilt Double Hung Window 53" x 77" Non-Impact Through Jamb Anchoring.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other:		Certification Agency Certificate FL28486 R2 C CAC NI014261-R1.pdf Quality Assurance Contract Expiration Date 10/31/2022 Installation Instructions FL28486 R2 II RPLS0076 Rev0 Series-8313-DH ss.pdf Verified By: Robert J. Amoruso, P.E. FL License No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL28486 R2 AE PERNo2579 Rev2 FL28486 8313 DH ss.pdf Created by Independent Third Party: Yes

[Back](#)[Next](#)

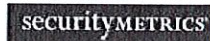
[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:

Credit Card
Safe

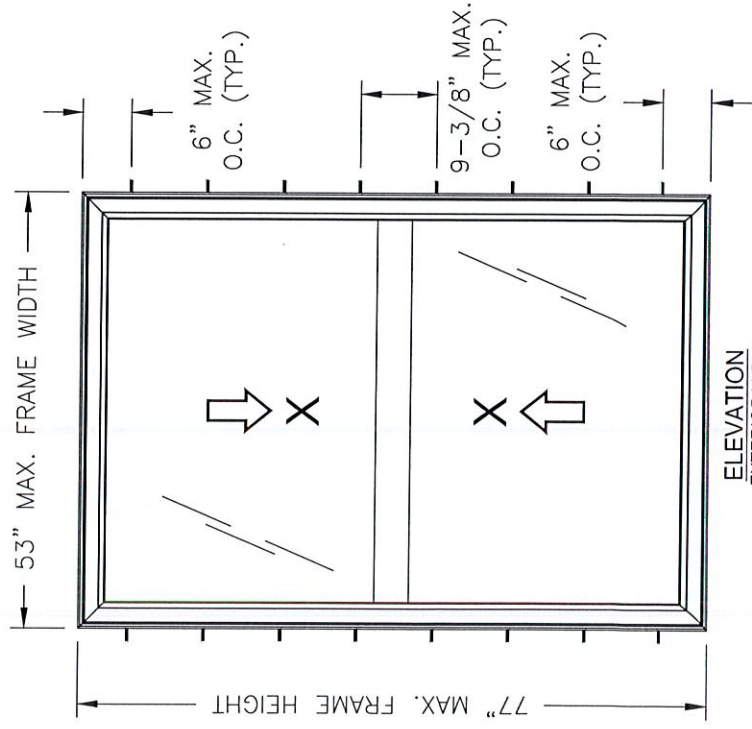


REGENCY PLUS, INC.

SERIES 8313 VINYL TILT DOUBLE HUNG WINDOW INSTALLATION ANCHORAGE DETAILS

NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WOOD FRAMING, 2X WOOD BUCK, METAL FRAMING AND CONCRETE/MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND CONCRETE/MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 1X BUCK OVER CONCRETE/MASONRY IS OPTIONAL. WHERE 1X BUCKS ARE USED, INSTALLATION ANCHORS WILL PASS THROUGH WINDOW FRAME AND 1X BUCK INTO CONCRETE/MASONRY SUBSTRATE. WHERE 1X BUCK IS NOT USED, INSTALLATION ANCHORS WILL PASS THROUGH WINDOW FRAME INTO CONCRETE/MASONRY SUBSTRATE. 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.
- THE PRODUCT SHOWN HEREIN HAS BEEN TESTED TO THE FOLLOWING:
 - AAMA WDM/ACSA 107/11.5.2/440-11. SEE TEST REPORT NO. NCTL-110-21524-2, DATED 10/16/18 BY NATIONAL CERTIFIED TESTING LABORATORIES, YORK, PA.
- MATERIAL:
 - FRAME: EXTRUDED RIGID PVC
 - REINFORCEMENT:
 - GALVANIZED STEEL TUBE - TOP RAIL OF SASH AND INTERIOR MEETING RAIL.
 - U-SHAPED GALVANIZED STEEL - BOTTOM RAIL OF SASH AND EXTERIOR MEETING RAIL.
- GLAZING:
 - GLAZING DETAIL AS TESTED: 22.1mm (0.870") NOMINAL O.A. IGU COMPRISED OF 2 LITES OF 3mm (0.119") TEMPERED GLASS AND 16.05mm (0.632") STAINLESS STEEL SPACER (TYPE SS-D). INTERIOR GLAZED AGAINST A (2)-LEAF DUAL DUROMETER BACK BEDDING AND A SNAP-IN (2)-LEAF DUAL DUROMETER BACK BEDDING.
 - AS TESTED GLAZING MEETS ASTM E1300-08a FOR THE DESIGN CONDITIONS SHOWN IN THIS PRODUCT APPROVAL DOCUMENT.
 - ALTERNATE GLAZING MEETING THE REQUIREMENTS OF AAMA WDM/ACSA 107/11.5.2/440-11 SHALL BE ALLOWED PER ASTM E1300 IN NON-HVHZ LOCATIONS.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- FOR ANCHORING INTO CONCRETE/MASONRY USE 3/16" FLAT HEAD TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO CONCRETE WITH 1 1/8" MINIMUM EDGE DISTANCE AND 1" MINIMUM EMBEDMENT INTO MASONRY WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
- FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 FLAT HEAD WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
- FOR ANCHORING INTO METAL STRUCTURE USE #10 FLAT HEAD SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
- ALL FASTENERS TO BE CORROSION RESISTANT.
- 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:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT WITH DENSITY > 117 PCF
 - METAL STRUCTURE: STEEL 19GA 16GA (0.0428"), 39KSI OR ALUMINUM 6063-T5 0.048" THICK MINIMUM



- NOTES:
- MAXIMUM TOP SASH SIZE: 49.063" X 37.188"; MAXIMUM BOTTOM SASH SIZE: 50" X 37"
 - MAXIMUM TOP SASH D.L.O.: 45.563" X 33.375"; MAXIMUM BOTTOM SASH D.L.O.: 46.813" X 33.188"
 - 0.938" X 0.25" WEEP HOLE AT 1" FROM EACH END OF EXTERIOR SILL FACE.
 - 1.27" X 0.3" WEEP HOLE AT 3.625" FROM EACH END OF EXTERIOR SILL FACE.
 - 0.375" X 0.375" WEEP HOLE AT EACH END OF INTERIOR SILL TRACK.

TABLE OF CONTENT	
SHEET	DESCRIPTION
1	ELEVATION, ANCHORING AND NOTES
2	INSTALLATION DETAILS
3	BILL OF MATERIALS

DESIGN PRESSURE RATING (PSF)	IMPACT RATING
+50.0/-50.0	NONE

PROJECT #418-1001

REGENCY PLUS, INC.
2000 LOCUST GAP HIGHWAY
MT. CARMEL, PA 17851

SERIES 8313 VINYL TILT DOUBLE HUNG WINDOW
ELEVATION, ANCHORING AND NOTES

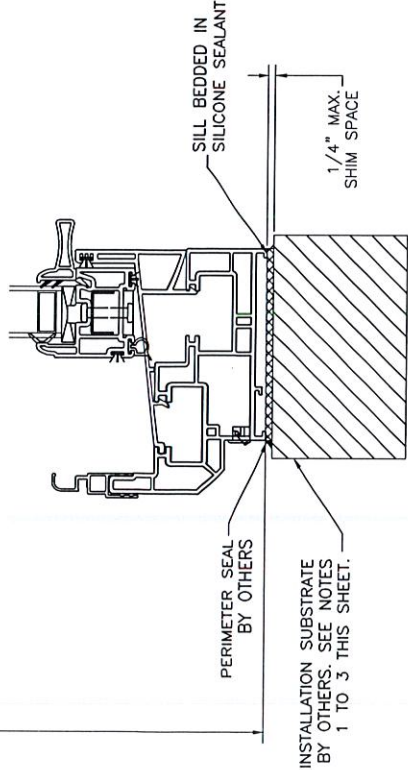
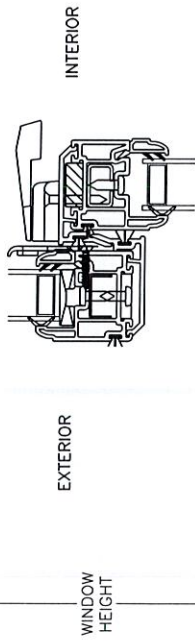
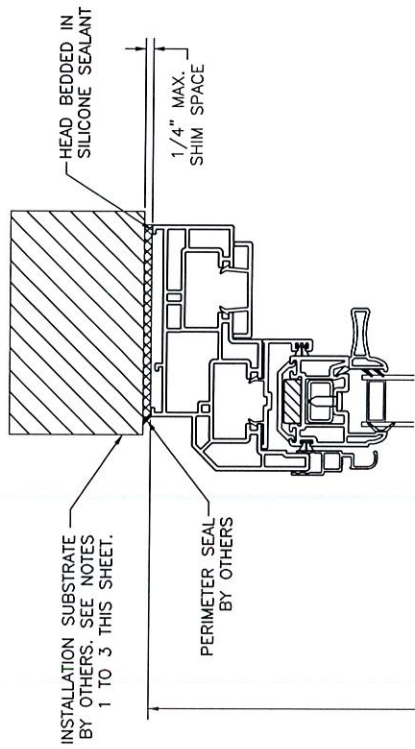
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DRAWN BY: RJA
SCALE: N.T.S.
SHEET: RPLS0076
REV: 1 OF 3

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

James Amoroso, P.E.
Florida P.E. No. 49752

Digitally signed
by Robert J.
Amoroso, P.E.
Date: 2018.11.21
10:45:00 -05'00'

PTC Product Design Group, LLC
PO Box 520775
Longwood, FL 32752-0775
321-680-1788 info@ptc-corp.com
FBPE Certificate of Authorization
No. 25935



VERTICAL CROSS SECTION
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR METAL FRAME
APPROVED

HORIZONTAL (JAMB) CROSS SECTION
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR METAL FRAME
APPROVED

INSTALLATION NOTES:

1. APPROVED INSTALLATION SUBSTRATES INCLUDE THE FOLLOWING:
 - 1.1. WOOD FRAMING
 - 1.2. STEEL STUD FRAMING AND CONCRETE AND/OR MASONRY
2. SUBSTRATE OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND CONCRETE/MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER CONCRETE/MASONRY IS OPTIONAL. 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.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
5. SUBSTRATE ANCHORING METHODS:
 - 5.1. FOR ANCHORING INTO CONCRETE/MASONRY USE 3/16" FLAT HEAD TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO CONCRETE WITH 1 1/8" MINIMUM EDGE DISTANCE AND 1" MINIMUM EMBEDMENT INTO MASONRY WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
 - 5.2. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 FLAT HEAD WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
 - 5.3. FOR ANCHORING INTO METAL STRUCTURE USE #10 FLAT HEAD SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
6. INTERIOR AND EXTERIOR FINISHES BY OTHERS. NOT SHOWN FOR CLARITY.
7. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED AND/OR SPECIFIED IN ACCORDANCE WITH ASTM E2112.

PROJECT #418-1001

REGENCY PLUS, INC.
2000 LOCUST GAP HIGHWAY
MT. CARMEL, PA 17851

SERIES 8313 VINYL TILT DOUBLE HUNG WINDOW
INSTALLATION DETAILS

DATE: 11/14/18
DRAWING NO: RPLS00076
SCALE: N.T.S.
REV: 2 OF 3

PREPARED BY: PTC

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

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321-850-1786 info@ptc-corp.com
FBE Certification
No. 25955

2000 LOCUST GAP HIGHWAY
MT. CARMEL, PA 17851
SHEET: 2 OF 3

PTC

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321-850-1786 info@ptc-corp.com
FBE Certification
No. 25955

BILL OF MATERIALS

Series Tech 8313 Non-Impact Double Hung / Bill of Material			
Supplier	Part Numbers	Description	Quantity
Energy / Royal	IV White 1060 / 7720	Master Frame (H)	2
Energy / Royal	IV White 1060 / 7720	Master Frame (W)	2
Energy / Royal	IV White 1282 / 7750	Sash Frame (Operating Sash) / (H)	4
Energy / Royal	IV White 1282 / 7750	Sash Frame (Operating Sash) / (W)	4
Energy / Royal	IV White 1067 / 7745	Glazing Bead Stop (Operating Sashes) / (H)	4
Energy / Royal	IV White 1067 / 7745	Glazing Bead Stop (Operating Sashes) / (W)	4
Energy / Royal	IV White 1068 / 7747	Glazing Lift Rail Handle (Operating Sashes) / (W)	2
Energy / Royal	IV White 1073 / 7724	Pocket Cover Head / (W)	2
Energy / Royal	IV White 1078 / 7725	Sash Cover Head (Keeper Sash) / (W)	1
Energy / Royal	IV White 1180 / 7727	Interlock Cover (Operating Sashes) / (W)	1
Energy / Royal	IV White 1070 / 7736	Sash Stop Frame Cover / (H)	2
Energy / Royal	IV White 1070 / 7736	Sash Stop Frame Cover Head / (W)	2
Energy / Royal	IV White 1181 / 7738	Sloped Sill / (W)	1
Ultra-Fab	W23303NW0000	.210 x .300 Fin Seal Pocket Cover (W) / 1073 / 7724 / Frame Head	1
Ultra-Fab	W23303NW0000	.210 x .300 Fin Seal Pocket Cover (W) / 1181 / 7738 / Frame Sill	1
Ultra-Fab	W23303NW0000	.210 x .300 Fin Seal Sash Frame (H) / 1282 / 7750 / Keeper Sash	4
Ultra-Fab	W23303NW0000	.210 x .300 Fin Seal Sash Frame (W) / 1282 / 7750 / Lock Sash	4
Ultra-Fab	E20718WN2020	.200 x .340 H-Bulb Seal Sash Frame (W) / 1282 / 7750 / Lock Sash	1
Ultra-Fab	W23301NW0000	.187 x .300 Fin Seal Interlock Cover (W) / 1180 / 7727 / Keeper Sash	1
Ultra-Fab	W23301NW0000	.187 x .300 Fin Seal Interlock Cover (W) / 1180 / 7727 / Lock Sash	2
Shapes Unlimited	W112257W0000	Single Leg Frame New White	3
Shapes Unlimited	06515NEW192	Double Leg Frame New White	1
Adapt	2584	Tension Springs	2
Phifer	3002806	Fiberglass Screen Cloth Charcoal / 60" x 96"	1
Imperial Plastic USA	EX-FLX-Q165-BK	Screen Spine (H / W)	4
Hygrade Metals	CK252X260	Aluminum Corner Keys	4
Hygrade Metals	ST-226-144-0.052	Operating Sash / (W-1) Lock Sash / Impact Lock Top / Heavy Rebar	1
Hygrade Metals	ST-187-144-0.032	Operating Sash / (W-1) Lock Sash / Bottom / Light Rebar	1

Series Tech 8313 Non-Impact Double Hung / Bill of Material			
Supplier	Part Numbers	Description	Quantity
Hygrade Metals	ST-226-144-0.052	Operating Sash / (W-1) Keeper Sash / Impact Lock Top / Heavy Rebar	1
Hygrade Metals	ST-187-144-0.032	Operating Sash / (W-1) Keeper Sash / Bottom / Light rebar	1
Product Design	H-884	Screen Clip Clear	2
Product Design	H-3150	Screen Clip Clear	2
Product Design	H-808WHZ	Weep Hole Cover White	2
RH Products	HH-66 Vinyl Cement	Interlock Cover (Operating Sash) / Lock Sash (W)	1
RH Products	HH-66 Vinyl Cement	Interlock Cover (Operating Sash) / Keeper Sash (W)	1
Anesbury / Truth	803827	27 lb. 3 Coil / 984 Series / Constant Force Balance	4
S.I.L. Plastic	00156-C001	Liftrail End Caps White	4
Smith Staple	BEA 80/10	Stainless Steel Staples 3/8 x 1/2 Sash (W) (H)	20
Lindenmeyr	W0511022	30PP12-18P50-9/16 X1 3/8 X 3 Foam Block	2
Lametek	21300-00077	75 White Balance Plug	4
James Spring Wire	CS025	Hurricane Grade Spring	4
Novagard Silicones	02-40X0150010C2	Accessory Parts Installation Translucent	1
Vision Industries	1057A-003-EW	Hurricane Tilt Latch	4
Vision Industries	3220SS-003-EW	Safe Seal Lock	2
Vision Industries	8292A-003-EW	Safe Seal Keeper	2
Vision Industries	6987	Pivot Bars / T-Shape Head	4
Frank Lowe	2NB-8K-0.125-032-064	Glass Setting Blocks Sash (W) Top / Sash (H)	12
GLF Corporation	112003	# 532" Tri-Rivet .040 / 275 Grip / Sash Pivot Bars	12
GLF Corporation	137341	# 8-18 x 0.850 Flat Wafer Shoulder / Sash / Hurricane Latch	4
GLF Corporation	120376	# 8 x 1 1/4" Tek White / Locks	4
GLF Corporation	116821	# 6 x 1" Tek White / Keepers	4
GLF Corporation	117595	# 6 x 5/8" Tek / Sash Rebar (H)	12
GLF Corporation	117595	# 6 x 5/8" Tek / Sash Rebar (W)	12
GLF Corporation	120766	# 8 x 3/4" Tek / Pan Head (Balance Shoes)	4
GLF Corporation	116506	# 5 x 3/8" Tek / Screen Clips White	4
GLF Corporation	401168	# 12 x 3" Flat / Installation Screws	10
Cardinal	Double Strength Tempered	Operating Lock Sash / 3.1 T Q366 / 15.8 FED / 3.1 T	1
Cardinal	Double Strength Tempered	Operating Lock Keeper / 3.1 T Q366 / 15.8 FED / 3.1 T	1

PROJECT #418-1001

REGENCY PLUS, INC.
 2000 LOCUST GAP HIGHWAY
 MT. CARMEL, PA 17851
 SERIES 8313 VINYL TILT DOUBLE HUNG WINDOW
 PREPARED BY:

DATE: 11/14/18
 DRAWING NO: RPLS0076
 SCALE: N.T.S.
 REV: 3 OF 3

PTC
 PREPARED BY:

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



Digitally signed
 by Robert J.
 Amoroso, P.E.
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