4/4

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

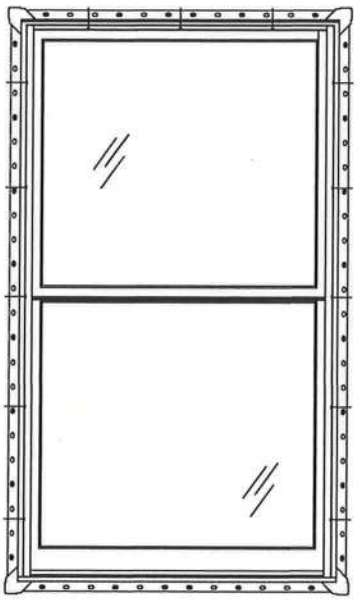
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS	Plastpro	Series N Fiberglass	FL 15220.11
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	Kolbe	forgent Series Double hung	FL 22655
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL	Union Corrugating Co.		
A. SIDING	Master Rib	36"w 3/4" high ribs 9"oc	FL 9555.5-R5
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL	Union Corrugating Co	36"w 3/4 high ribs 9"oc	FL 9555.5-R5
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

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.

Paul M Czelada

Contractor or Owner Signature

NOTES: _____



EXTERIOR ELEVATION

MAX. FRAME SIZE (IN.)	IMPACT
48 X 75	NO
APPLICABLE FOR SINGLE UNITS ONLY	

INSTALLATION METHOD	
Nailing Fin	4" from each corner and 4" on center
Installation Clips	6" from each corner and 16" on center
Screw Thru Frame	6" from each corner and 16" on center

FRAME ANCHOR REQUIREMENTS TABLE		
FRAME/CLIP & FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
#10 PFH screws into frame and wood substrate	1-1/4"	See pg. 2
#8 PFH Zinc treated screws into clip and wood substrate at an angle	1-1/2"	—
#8 PPH Zinc treated screws into clip and frame	FULL	See pg. 2
#11 Galvanized roofing nails	FULL	See pg. 2

GENERAL NOTES

1. These units have been tested, analyzed, Hallmark certified, and FBC approved.
2. Bucking, openings, and bucking fasteners must be properly designed and installed to transfer wind loads to the structure. The unit was tested with 1/2" rough opening gap.
3. These units were tested with ponderosa pine bucks, Florida building code requires preservative treated southern pine bucks.
4. All hardware and fasteners shall be in accordance with these drawings and may not vary unless specifically mentioned on the drawings.
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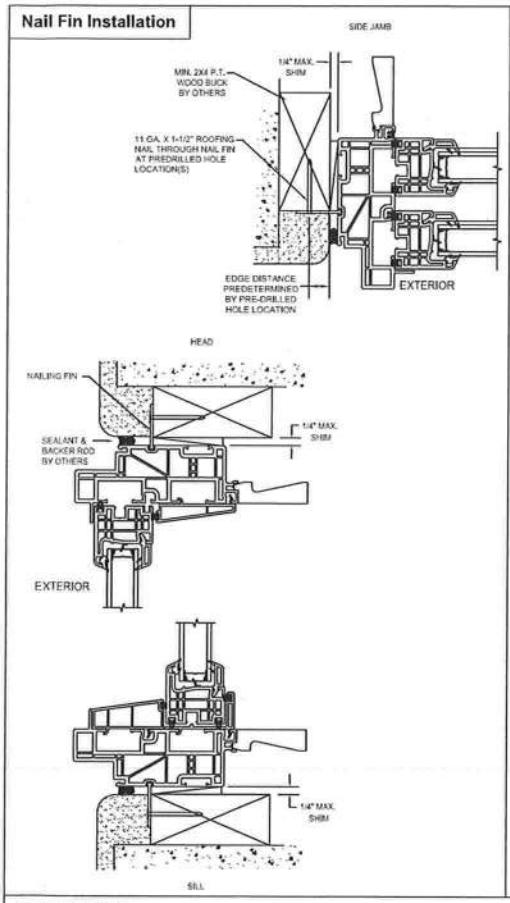
10. All fixed shaped units must fit inscribed into the allowable rectangular units and be governed by allowable design pressure of the respective rectangular unit.

KOLBE ■ WINDOWS & DOORS ■
1211 Depot Street
Manawa, WI 54949
920-596-2501

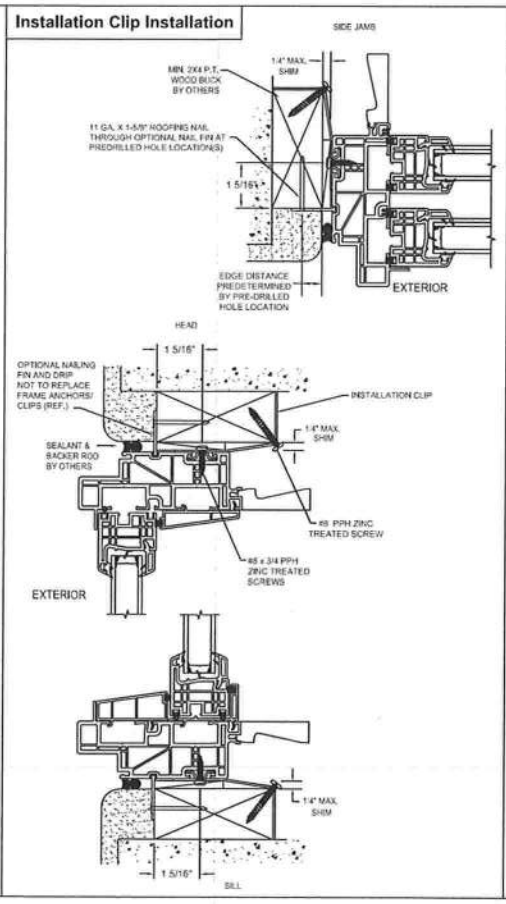
Forgent Series
Operating Double Hung Window

FL# 22655	R&D No. 16126 & 16127
Revision	Drawn By: MKL
A	Date: 7/7/17
B	Sheet: 1 of 3
C	Drawing No. FDH-100

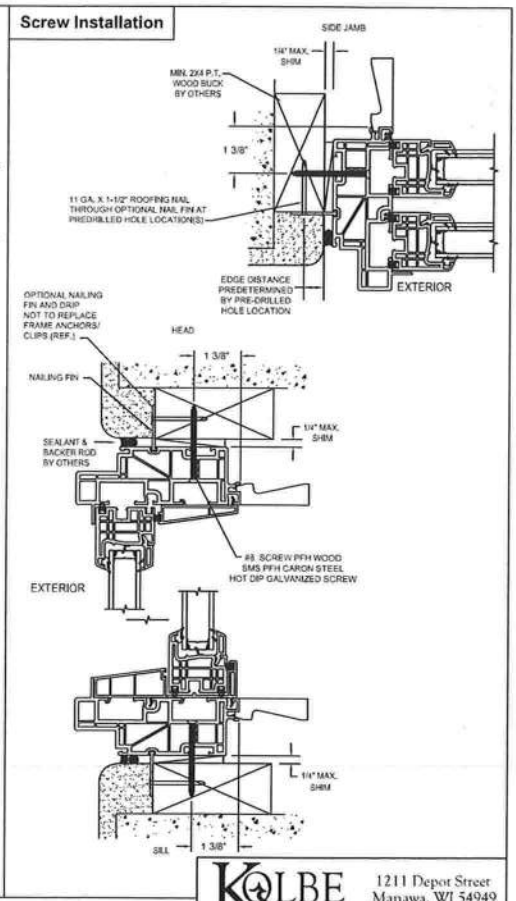
Nail Fin Installation



Installation Clip Installation



Screw Installation



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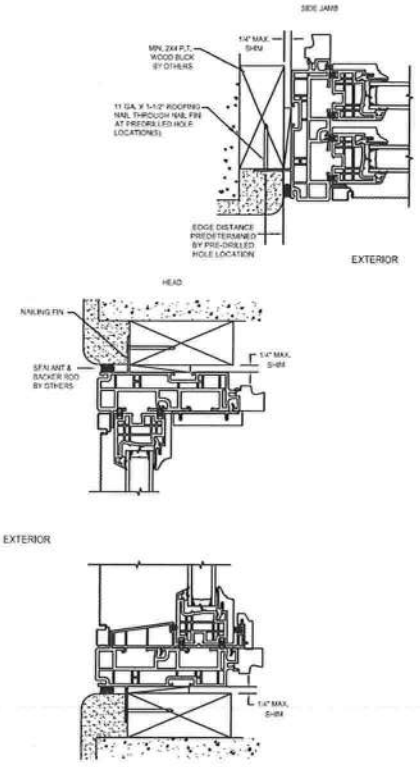
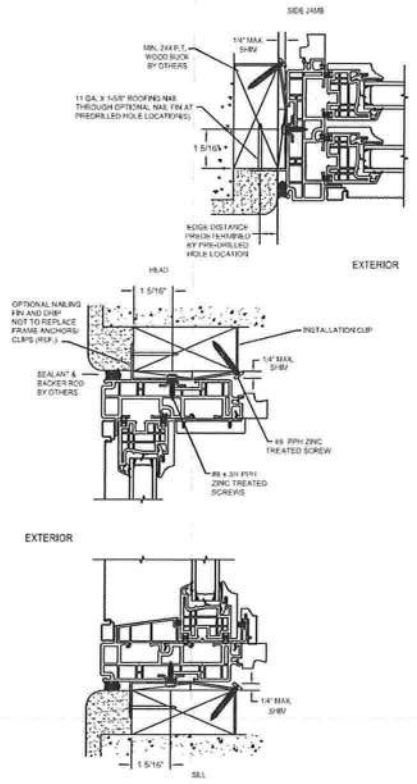
Forgent Series
Operating Double Hung Window

FL# 22655	R&D No. 16126 & 16127
Revision	Drawn By: MKL
A	Date: 7/7/17
B	Sheet: 2 of 3
C	Drawing No. FDH-100A

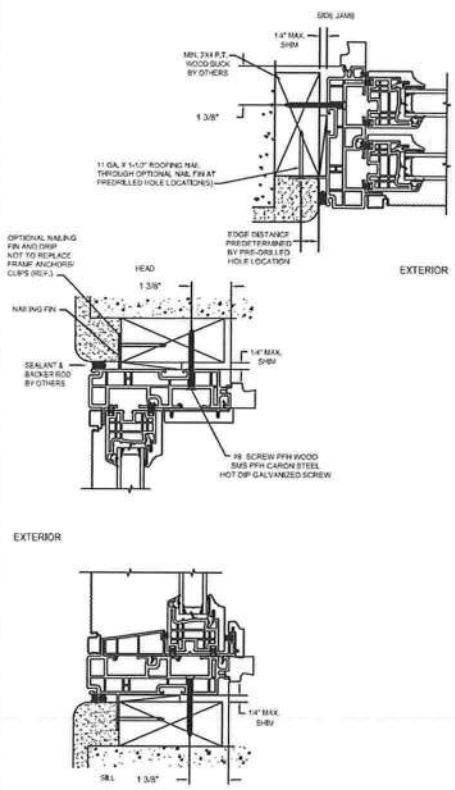
Nail Fin Installation



Installation Clip Installation



Screw Installation



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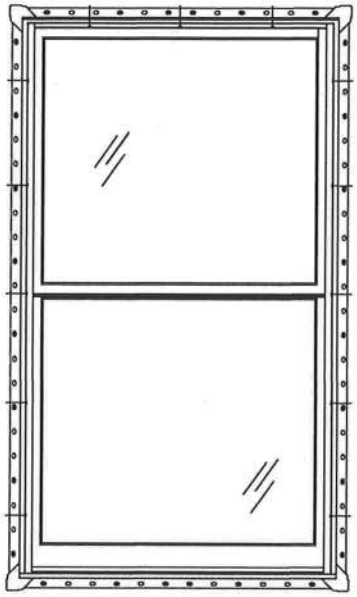
KOLBE WINDOWS & DOORS
1211 Depot Street
Manawa, WI 54949
920-596-2501

Forgent Series
Operating Double Hung Window
New Construction Frame

FL# 22655		R&D No. 16126 & 16127
Revision		Drawn By: JRK
A		Date: 06/19/18
B		Sheet: 3 of 3
C		Drawing No. FDH-100B



EXTERIOR ELEVATION

MAX. FRAME SIZE (IN.)	IMPACT
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APPLICABLE FOR SINGLE UNITS ONLY	

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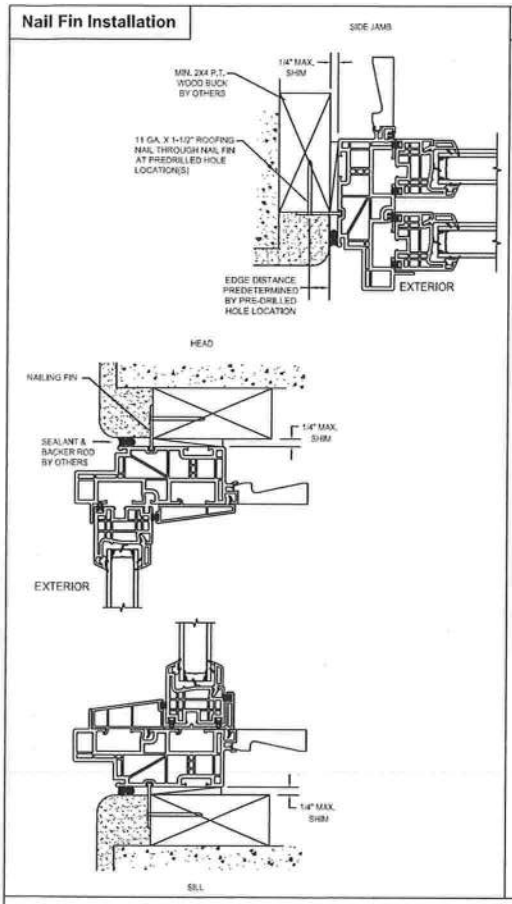
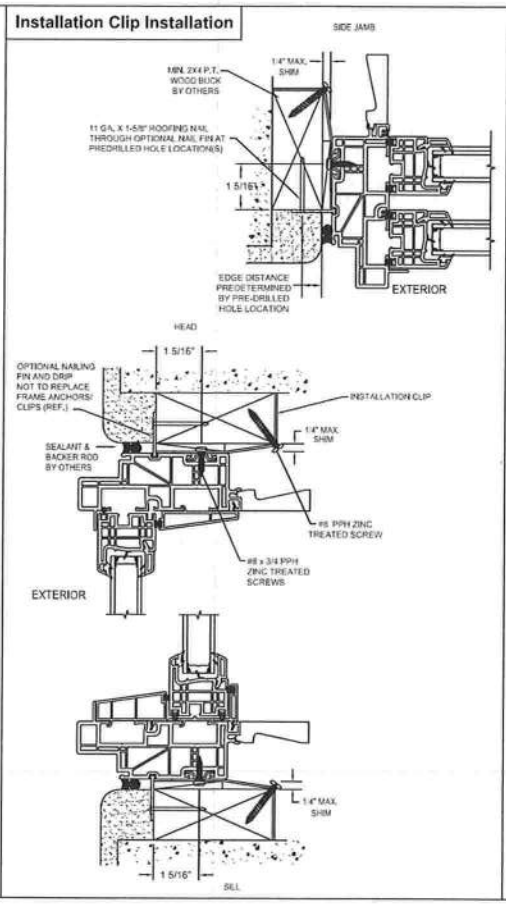
Forgent Series
Operating Double Hung Window

FL# 22655		R&D No. 16126 & 16127
Revision		Drawn By: MKL
A		Date: 7/7/17
B		Sheet: 1 of 3
C		Drawing No. FDH-100

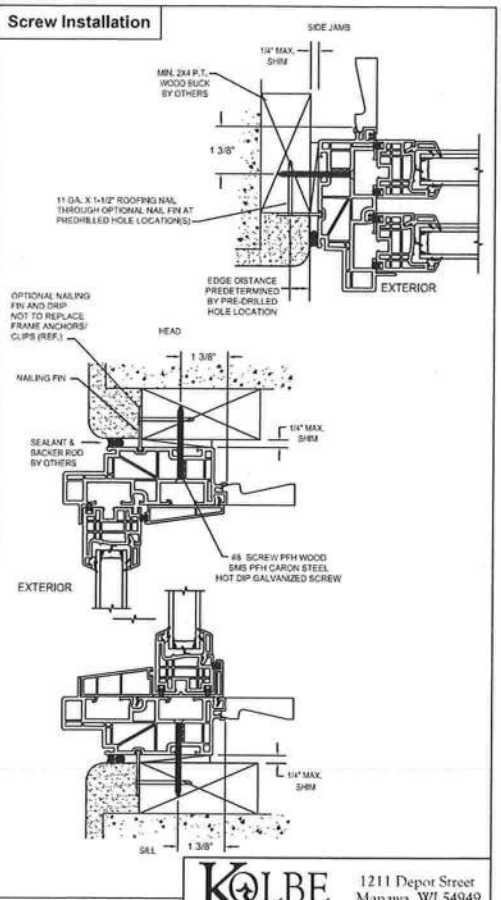
Nail Fin Installation



Installation Clip Installation



Screw Installation



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Forgent Series
Operating Double Hung Window

FL# 22655		R&D No. 16126 & 16127
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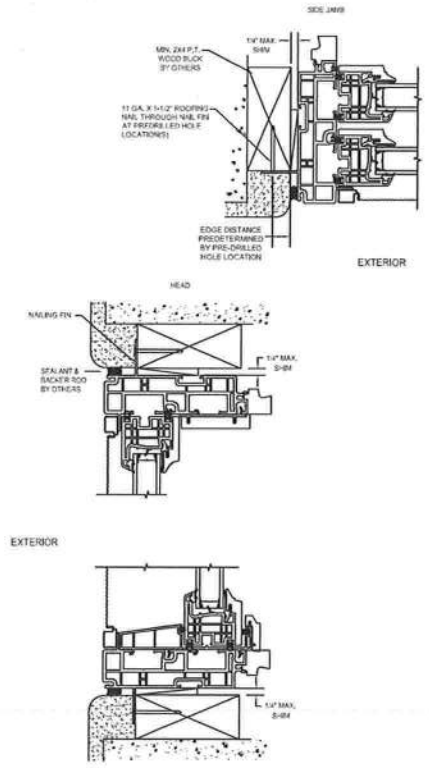
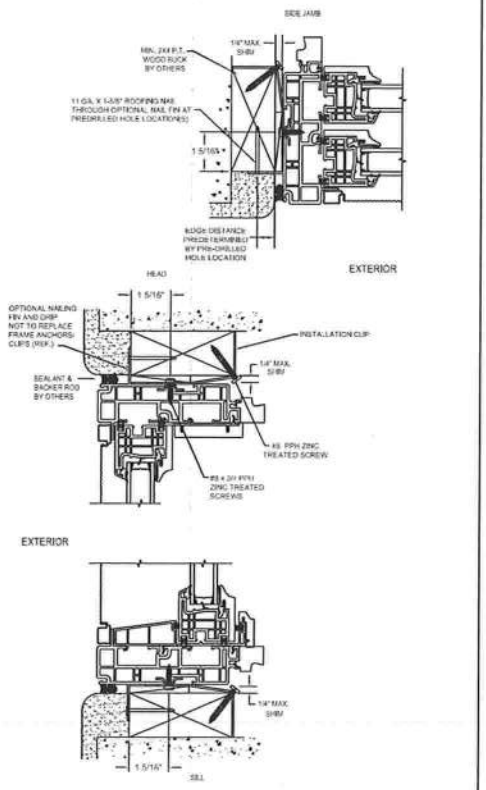
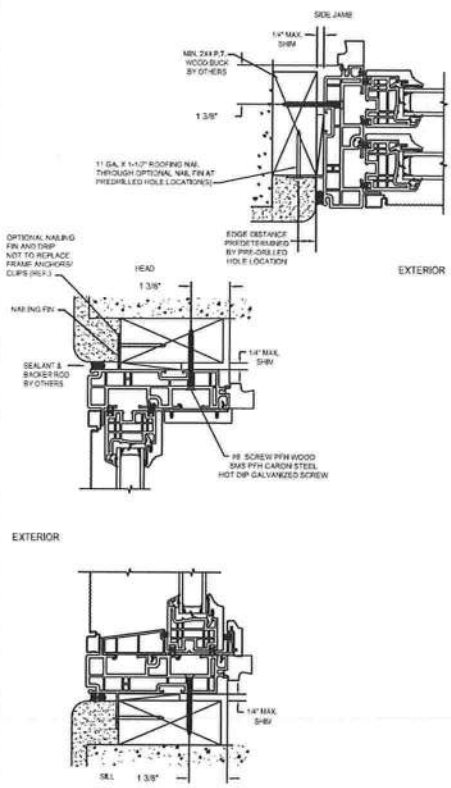
Nail Fin Installation



Installation Clip Installation



Screw Installation



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1211 Depot Street
Manawa, WI 54949
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Forgent Series
Operating Double Hung Window
New Construction Frame

FL# 22655		R&D No. 16126 & 16127
Revision		Drawn By: JRK
A		Date: 06/19/18
B		Sheet: 3 of 3
C		Drawing No. FDH-100B

plastpro

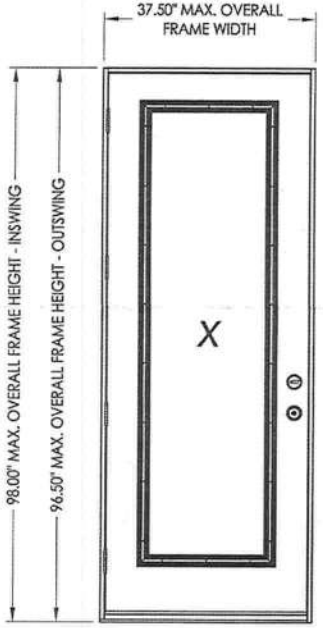
5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

Smooth / Wood Grain / White Wood Grain
Rustic / Mahogany
Series N Fiberglass Door
INSWING / OUTSWING
"NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product is required to be protected with an impact resistant covering that complies with Section 1626 of the FBC.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
5. For 2x stud construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations meet water infiltration requirements for "HVHZ".
8. Inswing configurations do not meet the water infiltration requirements for the "HVHZ". Inswing units shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

TABLE OF CONTENTS



SWING	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
INSWING	37.50" x 98.00"	+47.0	-47.0
OUTSWING	37.50" x 96.50"	+47.0	-47.0

July 27, 2020

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

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

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

PRODUCT: PLASTPRO INC FIBERGLASS DOOR

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

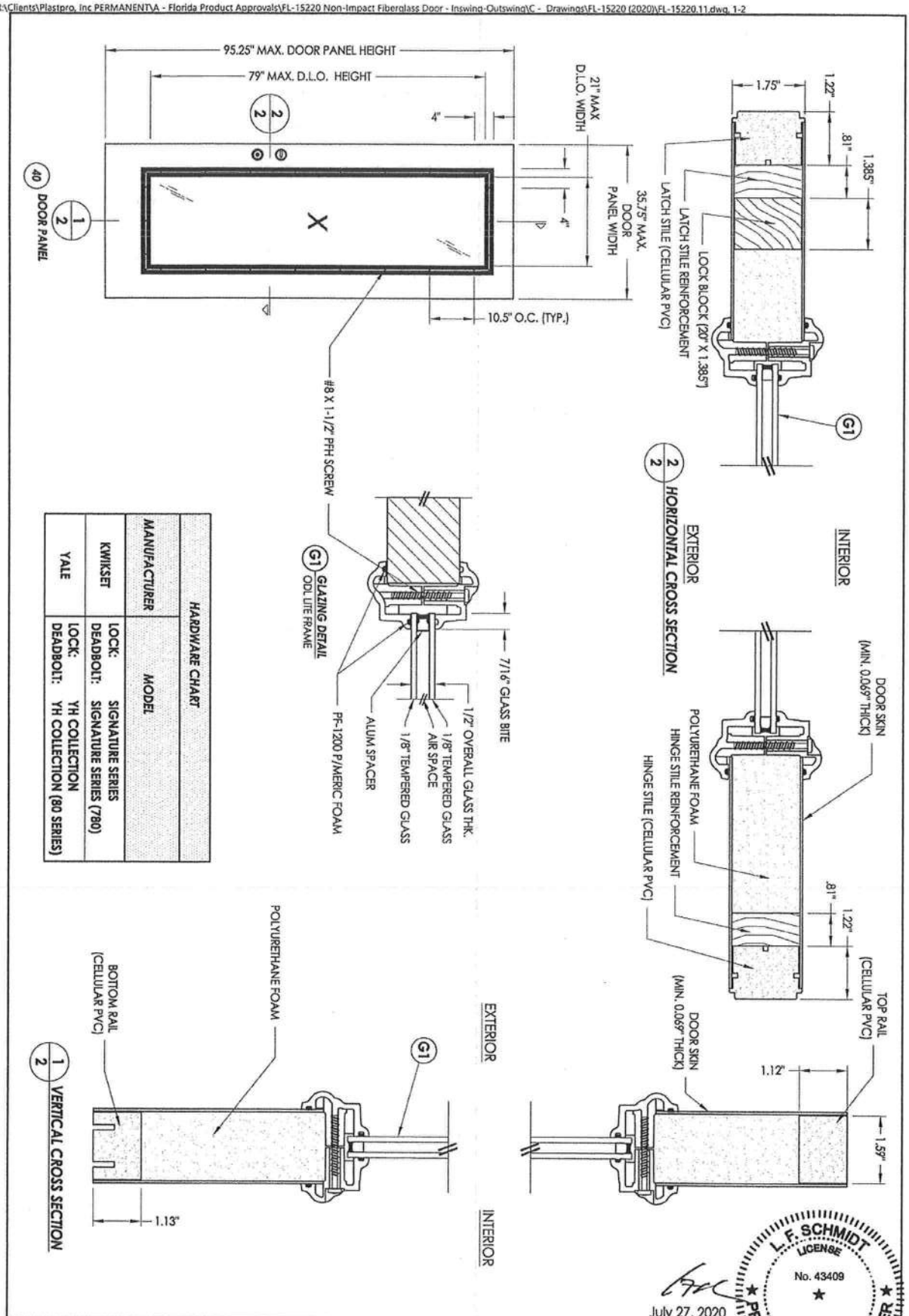
NO	DATE	REVISIONS	BY
3	7/27/20	UPDATE TO 7TH ED (2020) FBC	LFS
2	08/02/17	UPDATE TO 6TH ED. (2017) FBC	JK
1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK

DATE: 02/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15220.11
SHEET 1 OF 9

© 2012 R.W. BUILDING CONSULTANTS INC.

R:\Clients\Plastpro, Inc PERMANENT\A - Florida Product Approvals\FL-15220 Non-Impact Fiberglass Door - Inswing-Outswing\C - Drawings\FL-15220 (2020)\FL-15220.11.dwg, FL-15220.11

R:\Clients\Plastpro, Inc PERMANENT\A - Florida Product Approvals\FL-15220 Non-Impact Fiberglass Door - Inswing-Outswing\C - Drawings\FL-15220 (2020)\FL-15220.11.dwg, 1-2



HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	LOCK: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (780)
YALE	LOCK: YH COLLECTION DEADBOLT: YH COLLECTION (80 SERIES)

July 27, 2020

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

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PRODUCT: PLASTPRO INC FIBERGLASS DOOR

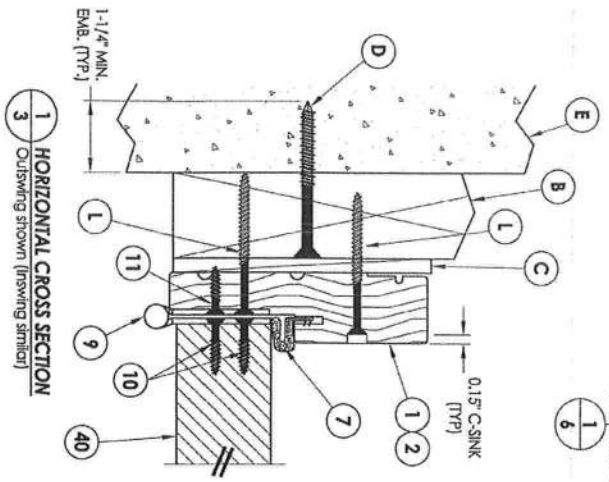
PART OR ASSEMBLY: DOOR PANEL DETAILS AND GLAZING DETAIL

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

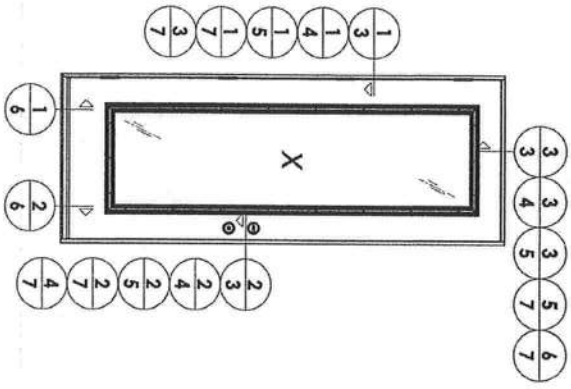
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

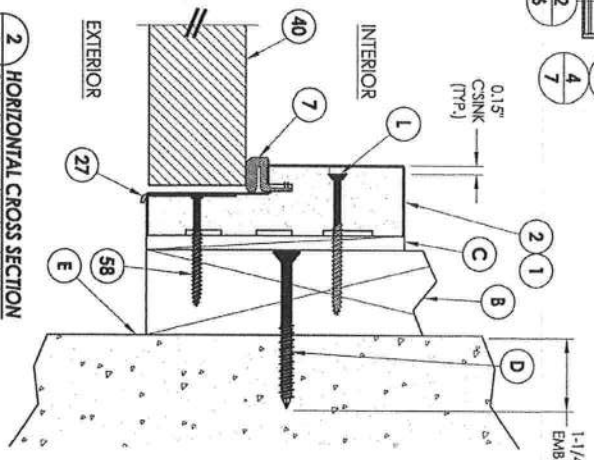
DATE: 02/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15220.11
SHEET 2 OF 9

© 2012 R.W. Building Consultants Inc.

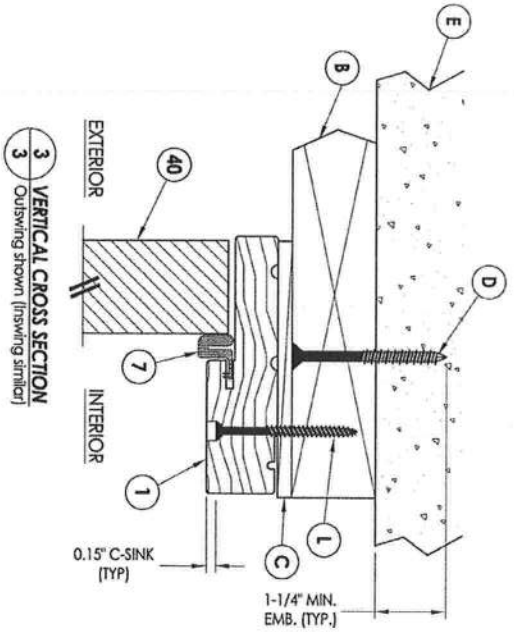


1 3 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)





2 3 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)



3 3 **VERTICAL CROSS SECTION**
Outswing shown (Inswing similar)

July 27, 2020

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

NO.	DATE	REVISIONS	BY
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PRODUCT: PLASTPRO INC FIBERGLASS DOOR

PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)

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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15220.11
SHEET 3 OF 9

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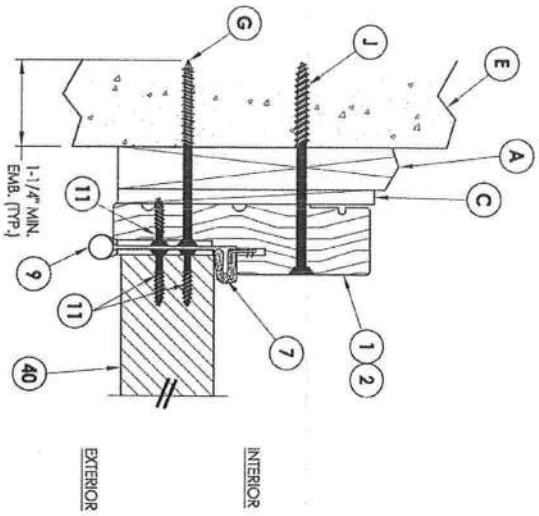
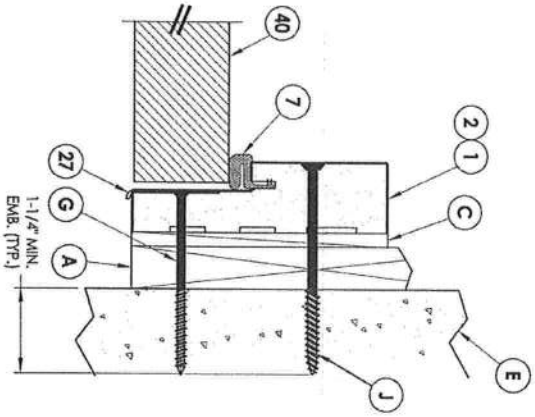
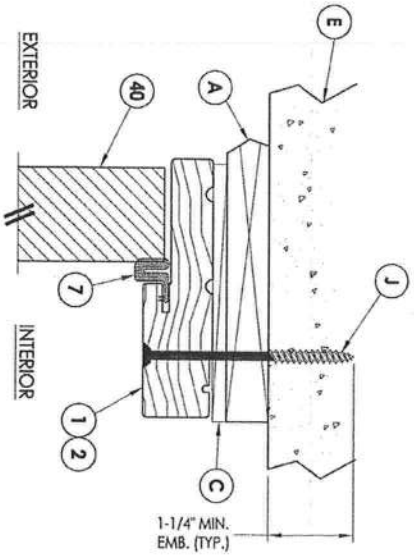
1/4 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2/4 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3/4 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



July 27, 2020

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

NO.	DATE	REVISIONS	BY
3	7/27/20	UPDATE TO 7TH ED (2020) FBC	LFS
2	08/02/17	UPDATE TO 6TH ED. (2017) FBC	JK
1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK

DATE: 02/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15220.11
SHEET 4 OF 9

PRODUCT: PLASTPRO INC FIBERGLASS DOOR

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

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

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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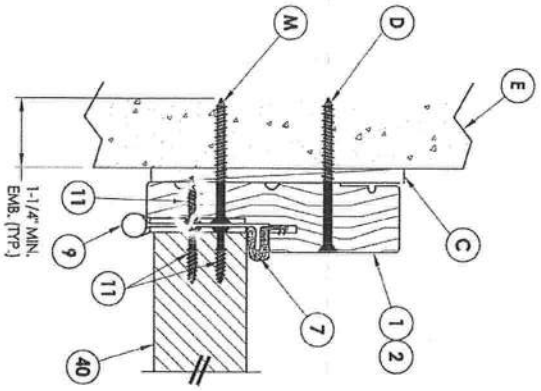
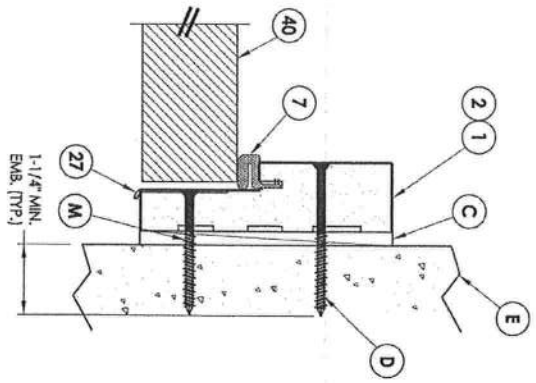
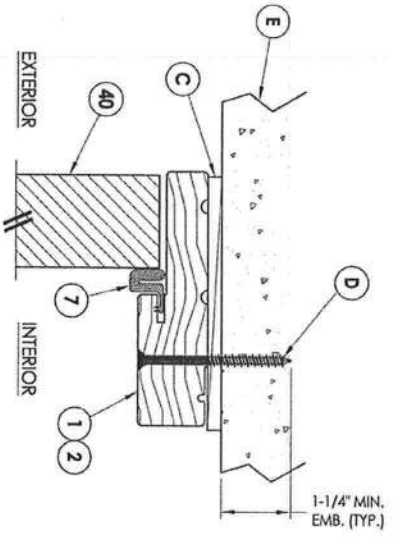


5/1 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing shown (Inswing similar)



5/2 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing shown (Inswing similar)



5/3 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing shown (Inswing similar)

July 27, 2020

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

NO.	DATE	REVISIONS	BY
3	7/27/20	UPDATE TO 7TH ED (2020) FBC	LFS
2	08/02/17	UPDATE TO 6TH ED. (2017) FBC	JK
1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK

PRODUCT: PLASTPRO INC FIBERGLASS DOOR

PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)

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

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 02/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15220.11
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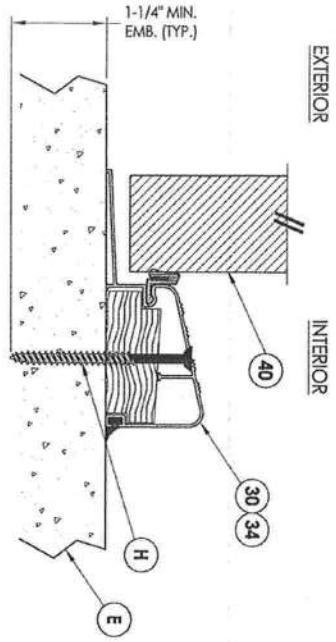
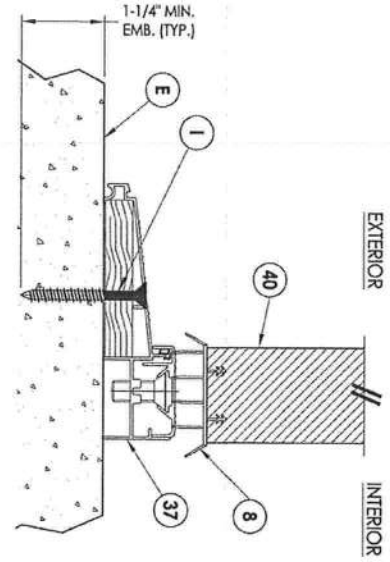


1/6 **VERTICAL CROSS SECTION**
Outswing configuration



3/6 **VERTICAL CROSS SECTION**
Inswing configuration

July 27, 2020

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

NO.	DATE	REVISIONS	BY
3	7/27/20	UPDATE TO 7TH ED (2020) FBC	LFS
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1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK

PRODUCT: PLASTPRO INC FIBERGLASS DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

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

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

DATE: 02/20/12 | SCALE: N.T.S. | DWG. BY: JK | CHK. BY: LFS | DRAWING NO.: FL-15220.11 | SHEET 6 OF 9

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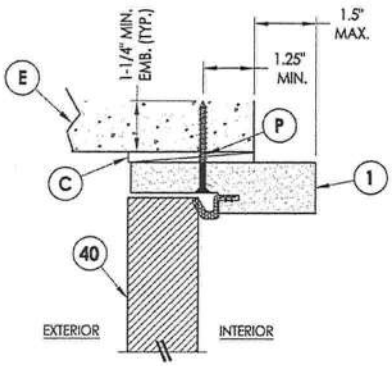
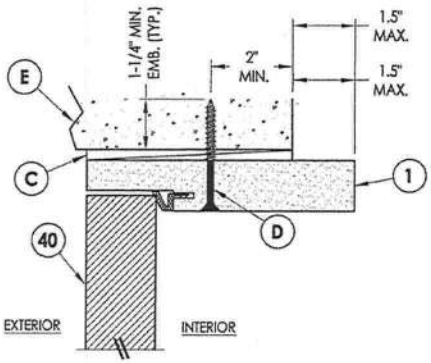
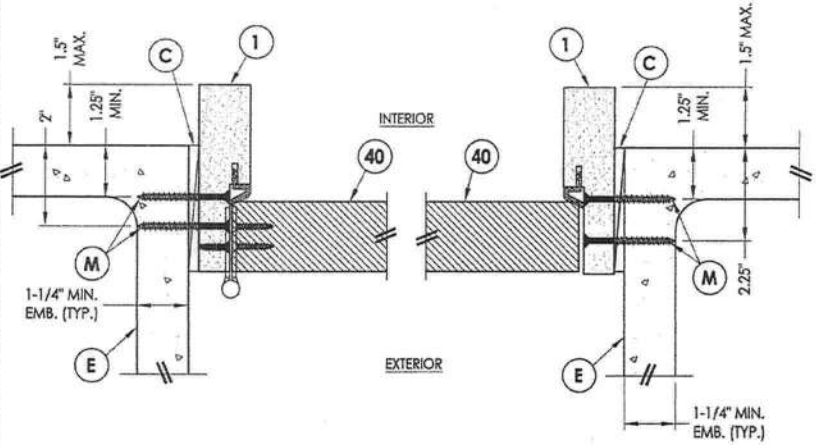


5/7 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

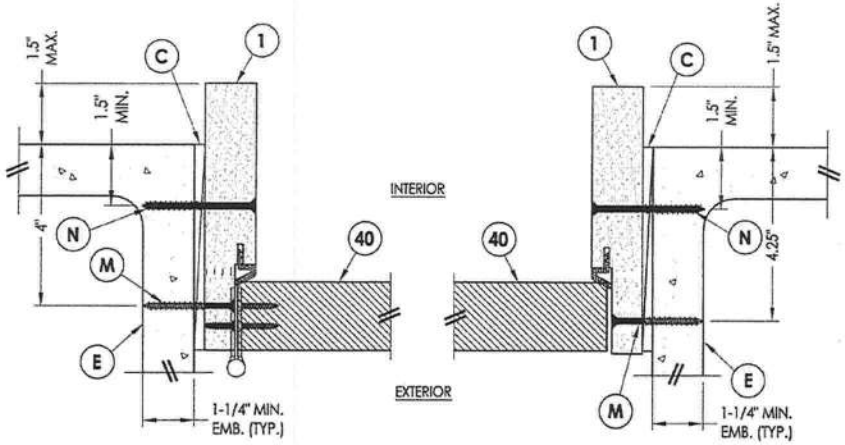


6/7 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



1/7 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

2/7 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



3/7 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

4/7 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

July 27, 2020

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

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

R|W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: PLASTPRO INC FIBERGLASS DOOR

PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS	BY
3	7/27/20	UPDATE TO 7TH ED. (2020) FBC	LFS
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1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK

DATE: 02/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15220.11
SHEET 7 OF 9

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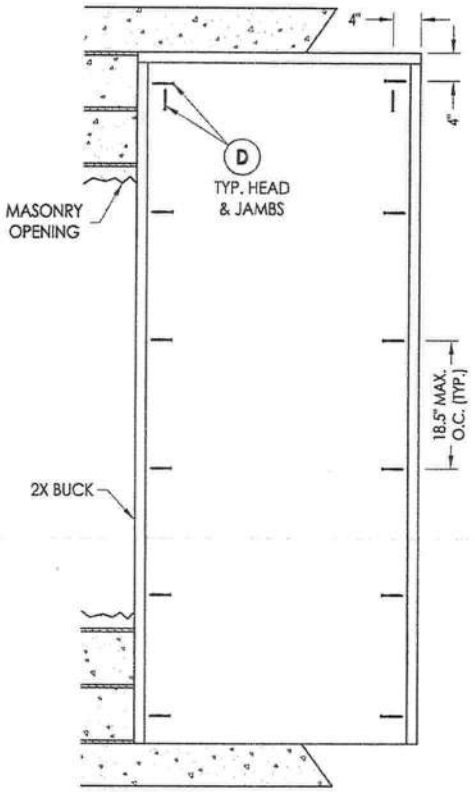
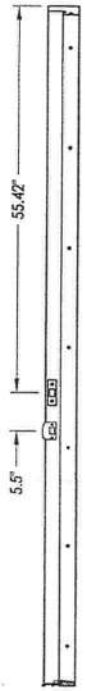
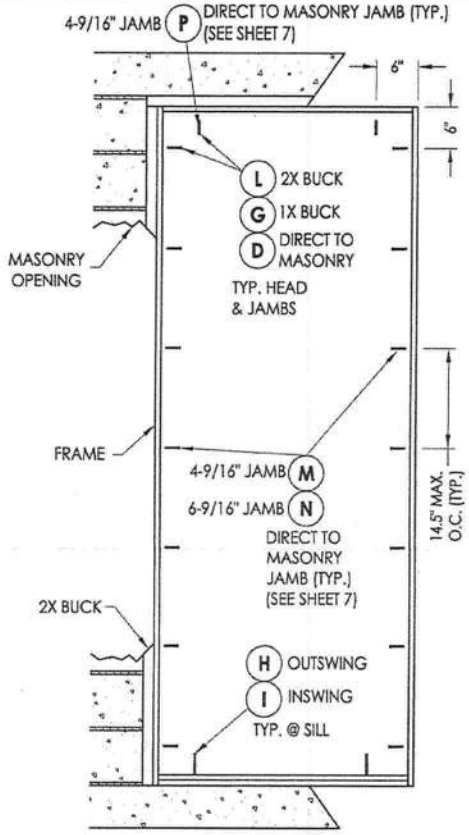
R:\Clients\Plastpro, Inc PERMANENTV - Florida Product Approvals\FL-15220 Non-Impact Fiberglass Door - Inswing-Outswing\C - Drawings\FL-15220 (2020)\FL-15220.11.dwg, 1-7



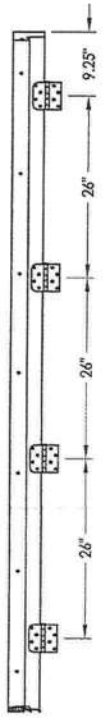
BUCK ANCHORING



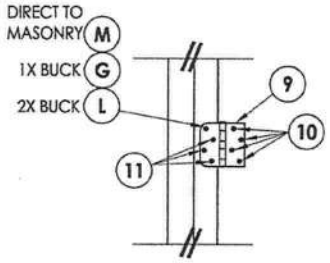
STRIKE JAMB



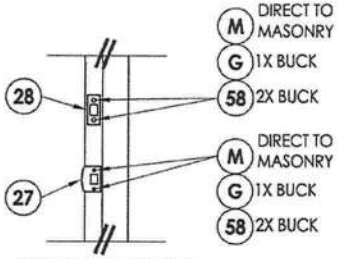
FRAME ANCHORING



HINGE JAMB



HINGE DETAIL



LATCH & DEADBOLT DETAIL

CONCRETE ANCHOR NOTES:

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

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

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

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

July 27, 2020

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

R|W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR

PART OR ASSEMBLY: BUCK AND FRAME ANCHORING

NO.	DATE	REVISIONS	BY
3	7/27/20	UPDATE TO 7TH ED (2020) FBC	LFS
2	08/02/17	UPDATE TO 6TH ED. (2017) FBC	JK
1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK

DATE: 02/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15220.11
SHEET 8 OF 9

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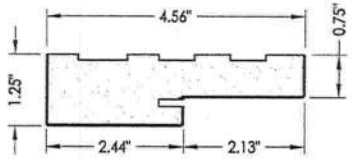
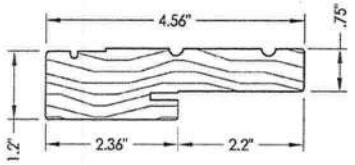
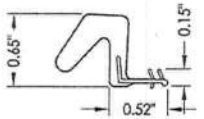
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	3/16" x 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	1/4" X 3-1/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
I	1/4" X 1-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
K	1/4" X 2-1/4" ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL
P	1/4" X 2-1/4" PFH ELCO CONCRETE SCREW	STEEL
1	POLY FIBER JAMB	COMP. / VINYL
2	FINGER JOINTED PINE FRAME	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR BOTTOM SWEEP	VINYL
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
30	OUTSWING THRESHOLD	ALUM/WOOD
34	OUTSWING THRESHOLD	ALUM/WOOD
37	INSWING THRESHOLD	ALUM/WOOD
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
58	#8 X 2" PFH WOOD SCREW	STEEL



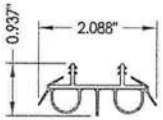
1 POLY FIBER JAMB
Plastpro



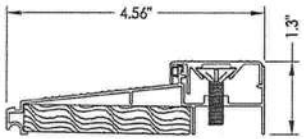
2 WOOD JAMB



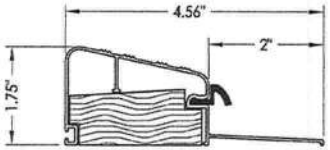
7 WEATHERSTRIP
Endura Force 5



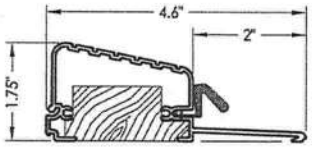
8 DOOR BOTTOM SWEEP



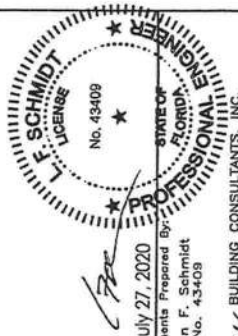
37 INSWING THRESHOLD
DLP (ISCS)



30 OUTSWING THRESHOLD
DLP (QOSR)



34 OUTSWING THRESHOLD
Columbia High Dam (581)



July 27, 2020

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

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

PRODUCT: PLASTPRO INC FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS

NO.	DATE	REVISIONS	BY
3	7/27/20	UPDATE TO 7TH ED. (2020) FBC	LFS
2	08/02/17	UPDATE TO 6TH ED. (2017) FBC	JK
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DATE: 02/20/12
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15220.11
SHEET 9 OF 9

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EVALUATION REPORT OF
UNION CORRUGATING COMPANY
'29 GA. MASTERRIB PANEL'
OVER WOOD SUPPORTS

FLORIDA BUILDING CODE 7TH EDITION (2020)
FLORIDA PRODUCT APPROVAL
FL 9555.5-R5
STRUCTURAL COMPONENTS
ROOF DECK

Prepared For:
Union Corrugating Company
701 S. King St.
Fayetteville, NC 28301
Telephone: (910) 483-0479
Fax: (910) 483-1091

Prepared By:
Bala Sockalingam, Ph.D., P.E.
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This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)

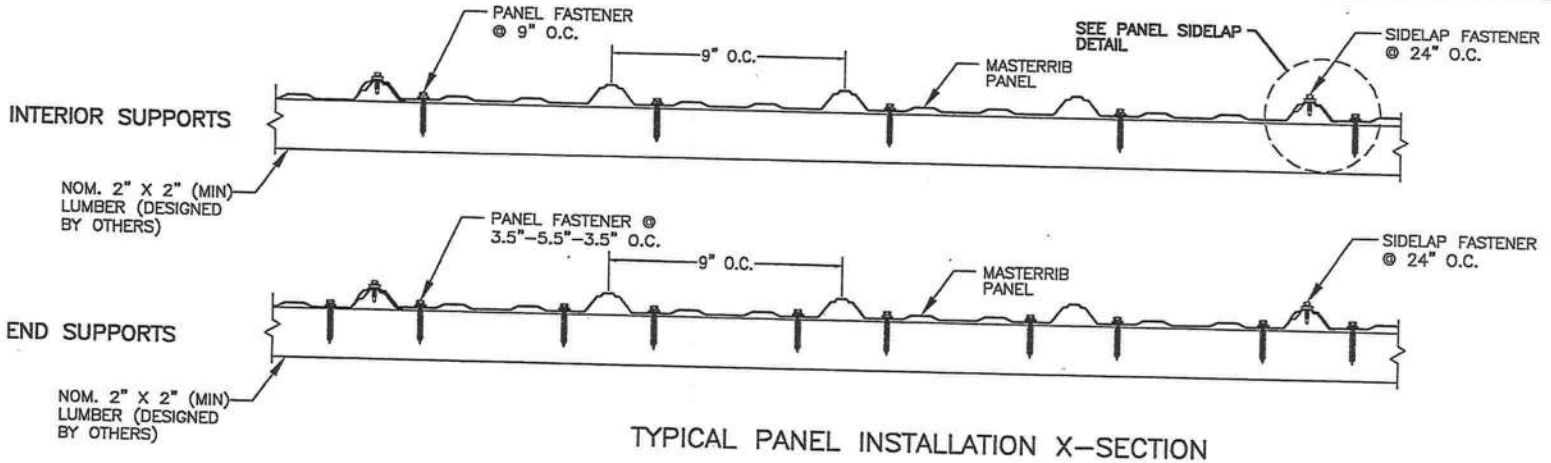
Report No. C2373-5
Date: 8.8.2020

Manufacturer:	Union Corrugating Company
Product Name:	MasterRib Panel
Panel Description:	36" wide coverage with 3/4" high ribs at 9" o.c.
Materials:	Minimum 29 ga., 80 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2020 Section 1507.4.3.
Support Description:	Nom. 2" x 2" (min) SPF, SYP or DF lumber. (Must be designed by others)
Slope:	1/2:12 or greater in accordance with FBC 2020 Section 1507.4.2
Design Pressure: (Based on testing)	+27.1 and -36.2 psf at support spacing of 48" o.c. (at 3 span condition with FS = 2.0)
Panel Attachment: At panel ends At intermediate	#9-15 or #10-14 x 1.5" long wood screws with washers. Fasteners are corrosion resistant as per FBC 2020 Section 1507.4.4. at 3.5"-5.5"-3.5" o.c. across panel width at 9" o.c. across panel width
Sidelap Attachment:	¼"-14 x 7/8" long SDS with washer at 24" o.c. Fasteners are corrosion resistant as per FBC 2020 Section 1507.4.4.
Test Standards:	Panel assembly tested in accordance with ASTM E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4470 Section 5.5 'Resistance to Foot Traffic'.
Test Equivalency:	The test procedure in ASTM E1592-01 comply with test procedure prescribed in ASTM E1592-05(2012). The test procedure in FM 4470 (1992) comply with test procedure prescribed in FM 4470 (2016) Section 4.6 'Resistance to Foot Traffic'.
Code Compliance:	The product described herein has demonstrated compliance with FBC 2020 Section 1507.4.
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2020 Section 1609 or ASCE 7-16 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Union Corrugating load span table. This product is not approved for use in the High Velocity Hurricane Zone. Fire

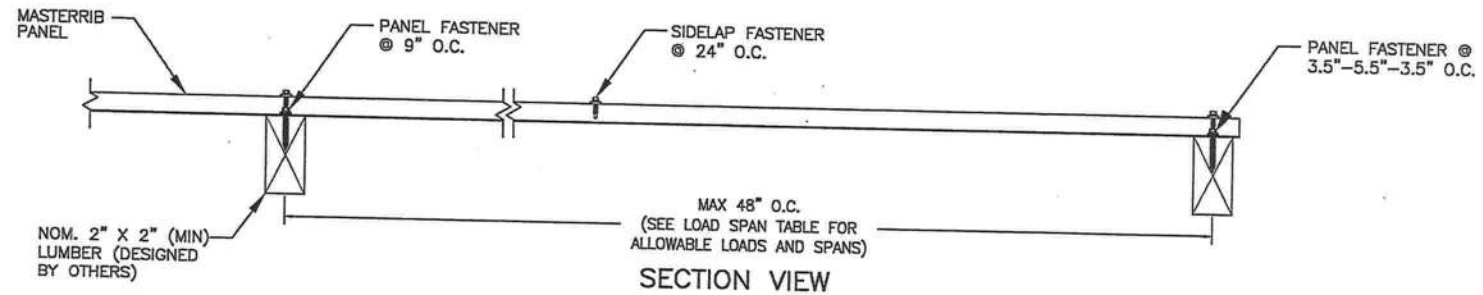
classification is not within scope of this Evaluation Report. Refer to FBC 2020 Section 1505 and current approved roofing materials directory for fire ratings of this product.

Supporting Documents: ASTM E1592 Test Report
ENCON Technology Inc.
C1514-1 (Test #2 & 3), Reporting Date 9/8/07

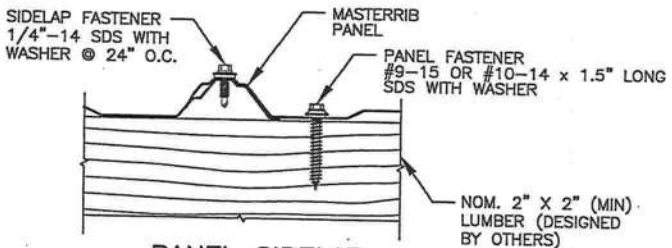
FM 4470 Test Report
ENCON Technology Inc.
C1583-2, Reporting Date 7/24/08



TYPICAL PANEL INSTALLATION X–SECTION



SECTION VIEW



PANEL SIDELAP

GENERAL NOTES:

1. ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE 29 GA. (t = 0.013"). EFFECTIVE COVERING WIDTH OF PANEL = 36".
3. ROOF PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE DESIGN LOADS.
5. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.
7. PANELS MAY SPAN BETWEEN EAVE TO RIDGE SUPPORTS OR RAKE TO RAKE SUPPORTS.

DRAWN BY: B.S. | CHECKED BY:
PLOT: | DATE:

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: MASTERRIB ROOF PANEL OVER WOOD SUPPORTS

CONSULTANTS: BALA SOCKALINGAM, PH.D., P.E.
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DRAWING NO. 2373–5 | REV.
SHEET NO. 1 OF 1

UNION CORRUGATING COMPANY

MasterRib Roof Panel

36" wide, 29 ga. (min) Steel Panel over Wood Supports

Span Condition	Loading Type	Allowable Load (psf)								
		Support Spacing (ft)								
		1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	4.00
Two Span	Gravity	106.4	91.2	79.8	70.9	63.9	58.0	53.2	45.6	34.7
	Uplift	84.9	72.8	63.7	56.6	51.0	46.3	42.5	36.4	29.0
Three Span	Gravity	120.9	103.7	90.7	80.6	72.6	66.0	60.5	40.5	27.1
	Uplift	96.5	82.7	72.4	64.4	57.9	52.7	48.3	41.4	36.2
Four or More Spans	Gravity	116.4	99.8	87.3	77.6	69.8	63.5	58.2	43.0	28.8
	Uplift	92.9	79.6	69.7	61.9	55.7	50.7	46.5	39.8	33.8

Notes:

1. Allowable load for each condition is the smallest load calculated based on fastener capacity, panel strength and and deflection limit of L/180. Allowable loads are calculated for minimum 29 ga. panel.
2. The wind load is taken as 0.7 times the "component and cladding" loads for the purpose of determining deflection limit.
3. The panel allowable properties are determined from full scale ASTM E1592 tests at 4' 0" span
4. The panel fasteners are #9-16 or 10-14 x 1-1/2" long wood screws with washers. Fastener spacing across panel width is 9.0" o.c. in the interior supports and 3.5"-5.5"-3.5" o.c. at panel ends.
5. Sidelap fasteners are 1/4"-14 x 7/8" long self drilling screws with washers at 24"o.c.
6. Wood supports are minimum 2" x 2" lumber. All supports must be designed to resist all loads imposed on the panel.
7. Minimum bearing width of support is 1.5".
8. The panels may span from eave to ridge or rake to rake.
9. Panels must be installed as per Evaluation Report FL 9555.5 and Union current installation procedure.

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8.8.2020

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