



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

PERMIT CARD – PLEASE POST AT JOB SITE

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

Per FBC 105.3.3: An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies." The issuance of this permit does not grant permission to violate any applicable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and Mechanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after commencement. **WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD.** PERMISSION IS GRANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE CITY OF BELLE ISLE, FLORIDA.

Scope of Work: BUILDING: replace 1 window, size for size

Comments: None

Project Information
 Address: 2542 Oak Island Pointe, Belle Isle, FL 32812
 Parcel ID: 18-23-30--6031-00-100
 Property Owner: Summers, Andrew
 Phone Number: None

 Company Name: Pella Windows and Doors
 Contractor Name: Rowland, James S.
 License Number: CBC046712
 Address: 350 SR-434 West, Longwood, FL 32750
 Phone Number: 407-831-0600

Permit Number: 2016-08-026
Date of Application: 08/16/2016
Date Permit Issued: 08/16/2016

WARNING TO OWNER: "YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." ON THE JOB INSPECTION(S) MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.

BUILDING FEATURES

IMPACT FEES	
Traffic	\$
School	\$
ZONING FEES	
Zoning Fee	\$
UNIVERSAL ENG - BUILDING FEES	
Boat Dock	\$
Boat House	\$
Building	\$
Demo	\$
Door(s)	\$
Driveway	\$
Electrical	\$
Fence	\$
Gas	\$
Irrigation	\$
Low Voltage	\$
Mechanical	\$
Plumbing	\$
Pool	\$
Roofing	\$
Screen Encl	\$
Shed	\$
Temp Pole	\$
Window(s)	\$67.50

SURCHARGE FEES	
Surcharge Fee	\$2.00
Surcharge Fee	\$2.00

TOTAL FEES \$71.50

Date Paid 8-17-16

BUILDING INSPECTOR USE ONLY

IF APPLICABLE:
 Have Zoning Approval Conditions Been Met? YES NO Have Stormwater Approval Conditions Been Met? YES NO Silt fencing in place? YES NO Turbidity Barrier in place? YES NO

BUILDING

1st _____ (Footing/Foundation)
 Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? _____

2nd _____ (Slab)

3rd _____ (Lintel)(Wall Reinforcing on Masonry Building)

4th _____ (Exterior Framing)(Roof/Wall Sheathing)

5th _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)

6th _____ (Insulation to be Made After Roof Installed)

7th _____ (Drywall)

8th _____ (Sidewalk/Driveway)

9th _____ (Other)

10th _____ (Final – After MEP and Other Applicable Finals)

ROOFING OSHA APPROVED ACCESS MUST BE MADE AVAILABLE TO INSPECTOR

1ST ROOFING Deck Nailing/Dry-in/Flashing _____

2nd ROOFING Covering In-Progress _____

3rd ROOFING Covering Final _____

PLUMBING (Pool Piping, Solar, Irrigation, Water Treatment Equip, Etc.)



City of Belle Isle
 1600 Nela Avenue, Belle Isle, FL 32809
 Tel 407-851-7730 * Fax 407-240-2222 * www.cityofbelleislefl.org
Building Permit (Land Use) Application

RECEIVED
AUG 12 2016

DATE: _____

PERMIT # 2016-08-026

PROJECT ADDRESS 2542 Oak Island Pointe Belle Isle, Belle Isle, FL X 32809 32812

PROPERTY OWNER Andrew Summers PHONE _____ VALUE OF WORK (labor & material) \$ 5792⁰⁰

PLEASE LIST THE NATURE OF YOUR PROPOSED IMPROVEMENTS

Replace 1 window size for size

Please provide information, if applicable.

- Survey specific foundation plan required to show compliance with zoning setbacks
- **BOAT DOCK:** DEP Clearance Required with Application (Call 407-897-4100); please provide a copy of their report
- **PROVIDE SEPTIC RESIDENTIAL SYSTEM VERIFICATION – OC DOCUMENT 64E-6, FOR NEW / ALTERED / ADDITIONS to Septic System**
- Homeowners will be required to have a contractor on record for homes that are rented and/or not homestead

Please Complete for the City of Belle Isle Zoning Review: Parcel Id Number: 18-23-30-6031-00-100

To obtain this information, please visit <http://www.ocpafl.org/Searches/ParcelSearch.aspx>

SPECIAL CONDITIONS: STRUCTURES MAY NOT ENCROACH INTO ANY EASEMENT OR REQUIRED SETBACK. Note, this Zoning Approval MAY or MAY NOT be in conflict with your Deed Restrictions. For New Single Family Residence, a Traffic Impact Fee and School Impact will be assessed.

Attached Survey _____ SETS and Construction Plans _____ SETS

PLANNING & ZONING APPROVAL: _____
 DATE _____

PLEASE COMPLETE for Building Review

CONSTRUCTION TYPE _____
 OCCUPANCY GROUP _____ Comm Res: _____ Single Fam _____ Multi Fam
 #BLDG. _____ #UNITS _____ #STORIES _____ TOTAL SQ.FT. _____
 MAX. FLOOR LOAD _____ MAX. OCCUPANCY _____
 MIN. FLOOD ELEV. _____ LOW FLOOR ELEV. _____
 WATER SERVICE _____ WELL _____ SEPTIC _____

BUILDING REVIEWER ca DATE 8-16-16
 NOTES

need NOC
need NOC & insurance - sent email

Per FSS 105.3.3:

An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies."

Waste Management is by legal contract the sole authorized provider of garbage, recycling, yard waste, and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial businesses may contact Waste Management at 407-788-0800 to setup accounts for Commercial, Construction Roll Off, or other services needed. Rates are fixed by contract and are available at City Hall or from Waste Management. The City enforces the contract through its code enforcement office. Failure to comply will result in a stop work order.

Wind Load Category: A _____ B _____ C _____ D _____

SPRINKLERS REQ'D	Y	N	
If Required – SUBMIT COPY OF PLANS FOR FIRE			
REVIEW	Date: Sent	RCD	
ZONING	Y	<input checked="" type="radio"/> N	\$ _____
CERT OF OCC	Y	N	\$ _____
TRAFFIC	Y	N	\$ _____
SCHOOL	Y	N	\$ _____
FIRE	Y	N	\$ _____
SWIMMING POOL	Y	N	\$ _____
POOL ENCLOSURE	Y	N	\$ _____
BOAT DOCK	Y	N	\$ _____
BUILDING	Y	N	\$ _____
WINDOW(S)	<input checked="" type="radio"/> Y	N	\$ <u>67.50</u>
DOOR(S)	Y	N	\$ _____
OTHER	Y	N	\$ _____

3% FL SURCHARGE 4.00
 TOTAL 71.50 ✓

By Owner Form	Y	<input checked="" type="radio"/> NA
Notice of Commencement	<input checked="" type="radio"/> Y	NA
Power of Attorney	<input checked="" type="radio"/> Y	NA
Contractor Packet On File?	Y	N

OTHER PERMITS REQUIRED:

ELECTRICAL	Y	NA
PREPOWER	Y	NA
MECHANICAL	Y	NA
PLUMBING	Y	NA
ROOFING	Y	NA
GAS	Y	NA
OTHER:		

151.1K
5x54
25
20
45.2
22.50
67.50



City of Belle Isle
 1600 Nela Avenue, Belle Isle, FL 32809
 Tel 407-851-7730 * Fax 407-240-2222 * www.cityofbelleislefl.org

Building Permit (Land Use) Application
 To be completed as required by State Statute Section 713 and other applicable sections.

PERMIT # 2016-08-026

Owner's Name Andrew Summers
 Owner's Address 2542 Oak Island Pointe Belle Isle, FL 32809
 Fee Simple Titleholder's Name (if other than owner's) _____
 Address _____ City _____ State _____ Zip Code _____

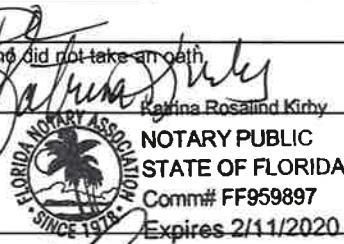
Contractor's Name <u>Pella Windows and Doors</u>	Architect/Engineer's Name _____
Contractor's Address <u>350 West SR 434</u>	Architect/Engineer's Address _____
City, State, ZIP <u>Longwood, FL 32750</u>	City, State, ZIP _____
License # <u>CBE 046712</u>	License # _____
Contact Phone/Cell <u>(407) 831-0600</u>	Contact Phone/Cell _____
Contact Email <u>floridaservice@pella.com</u>	Contact Email _____

WARNING TO OWNER: Your failure to record a Notice of Commencement may result in your paying twice for improvements to your property. A notice of commencement must be recorded if job is \$2500(+) or if A/C Replacement \$7500(+) and posted on the job site before the first inspection. If you intend to obtain financing, consult with your lender or an attorney before recording your Notice of Commencement.

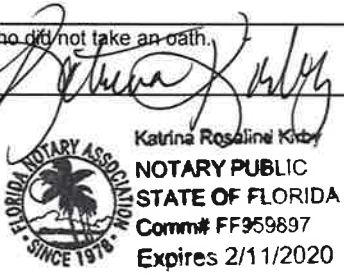
I hereby make Application for Permit as outlined above, and if same is granted I agree to conform to all Division of Building Safety Regulations (www.floridabuilding.org) and City Ordinances (www.municode.com) regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable City and/or State of Florida codes and/or ordinances. Application is hereby made to obtain a permit to do the work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for all other construction including ELECTRICAL, MECHANICAL, PLUMBING, GAS, SIGNS, POOLS, ENCLOSURES, ETC.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

Owner Signature [Signature]
 The foregoing instrument was acknowledged before me this 7/15/16
 by Andrew Summers who is personally known to me
 and who produced _____
 as identification and who did not take an oath.
 Notary as to Owner _____
 State of Florida _____
 County of Orange _____



Contractor Signature [Signature]
 COMPANY NAME Pella Windows & Doors
 The foregoing instrument was acknowledged before me this 8/11/16
 by Frank Jerome, Jr. who is personally known to me
 and who produced _____
 as identification and who did not take an oath.
 Notary as to Owner _____
 State of Florida _____
 County of Orange _____



Impervious Surface Ratio Worksheet
 Development Zoned A-1, A-2, R-1-AAA, R-1-AA, R-1-A, R-1 per Section 50-74 Impervious Surface Ratio of the City Code

- Total Lot Area (sqft) X 0.35 = Allowable Impervious Area (BASE).
 Total Lot Area _____ X 0.35 = _____
 Allowable Impervious Area (BASE) _____
- Calculate the "proposed" impervious area on the lot. This includes the sum of all areas that do not allow direct percolation of rainwater. Examples include house, pool, deck, driveway, accessory building, etc.
 - House _____
 - Driveway _____
 - Walkway _____
 - Accessory Buildings _____
 - Pool & Spa _____
 - Deck & Patio _____
 - Other _____
 Actual Impervious Area (AIA) _____
- If AIA is less than BASE, subtract AIA from BASE to determine the amount of impervious area that may be added without providing onsite retention.
- If AIA is greater than BASE, then onsite retention **must be provided**.

Assuming 7.5 inches of rainfall based on a 24hr 10 year Rain Event (TP40), the formula is: (7.5 inches rainfall/12 inches p/foot) X (result from line 4) = cubic feet of storage volume needed

Permit Number _____
Parcel ID Number 18-23-30-6031-00-100

DOCH 20160419114
08/12/2016 12:16:59 PM Page 1 of 1
Rec Fee: \$10.00
Martha O. Haynie, Comptroller
Orange County, FL
MB - Ret To: PELLA WINDOWS AND DOORS



NOTICE OF COMMENCEMENT

State of Florida
County of _____

The undersigned hereby gives notice that the improvement(s) will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

- 1. **Description of property** (legal description of the property, and street address if available)
Address 2542 Oak Island Pointe Belle Isle, FL 32809
Legal Description Oak Island Second Replat 24/105 Lot 10
- 2. **General description of improvement(s)**
Replace window
- 3. **Owner Information**
Name Andrew Summers Phone & Fax Number _____
Address 2542 Oak Island Pointe Belle Isle, FL 32809
Interest in Property _____
- 4. **Fee Simple Title Holder** (if other than owner shown above)
Name _____ Phone & Fax Number _____
Address _____
- 5. **Contractor**
Name Pella Windows and Doors Phone & Fax Number _____
Address 350 West State Road 434 Longwood, FL 32750
- 6. **Surety** (if any)
Name N/A Phone & Fax Number _____
Address N/A
- 7. **Lender** (if any)
Name N/A Phone & Fax Number _____
Address N/A
- 8. Persons with the State of Florida designated by Owner upon who notices or other documents may be served as provided by 713.13(1) (a) 7, Florida Statutes.
Name _____ Phone & Fax Number _____
Address _____
- 9. In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in 713.13(1) (b), Florida Statutes.
Name _____ Phone & Fax Number _____
Address _____
- 10. **Expiration date of Notice of Commencement** (the expiration date is one year from the date of recording unless a different date is specified: _____)

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

11. Andrew Summers Signature of Owners or Owners Authorized Officer/Director/Partner/Manager
Andrew Summers Print Name

Sworn to (or affirmed) and subscribed before me this 15th day of July, 2016, by Andrew Summers as owner (type of authority, e.g. officer, trustee, attorney in fact) for self (name of party on behalf of whom instrument was executed). _____ personally known to me or _____ produced as identification.

Katrina Kirby Signatory of Notary
Katrina Kirby Name (print)

(Seal)

--AND--

Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated are true to the best of my knowledge and belief.

Will
8-12-16

Andrew Summers
Signatory of Natural Person Signing (in line #11) Above



WINDOWS & DOORS

350 State Road 434 W
Longwood, Florida 32750
407 831 0600
FAX: 407 339 7742

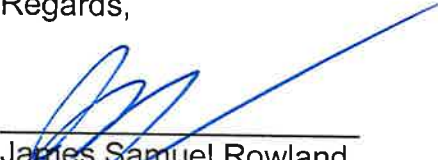
Authorization Letter / Power of Attorney

I, James Samuel Rowland, do hereby authorize the following persons to act as agents on behalf of myself and Pella Windows & Doors to pull and sign for any permits submitted under my Florida State contractor License number CBC046712.

Authorized Persons:

Brian Kirby	John Christianson
Timothy O'Malley	Martin Sterling
Christine O'Malley	Charles O'Neil
Aaron Hallich	Dennis Godsey
Erick DeDios	Joseph Orozco
Frank Jaramillo	Elionora Morejon


Regards,



 James Samuel Rowland
 Qualifier CBC046712
 Pella Windows & Doors

STATE OF FLORIDA
COUNTY OF LAKE

The foregoing instrument was acknowledged before me this 10th day of August, 2016 by JAMES SAMUEL ROWLAND, who is personally known to me.



 Notary Public
Katrina Kirby

 Print Name




My commission expires: 2/11/20

PRODUCT APPROVAL SPECIFICATION SHEET

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			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT	Pella Corp	Proline Series - Clad Vent	11504.4
D. FIXED	Pella Corp	Proline Series - Fixed Casement	11012.2
E. MULLION	Pella Corp	Pella Clad & Windows	13815.1
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
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			
A.			

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.



 APPLICANT SIGNATURE

8/12/16

 DATE



Product Approval
USER: Public User

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

OFFICE OF THE
SECRETARY

FL #	FL11504-R4
Application Type	Revision
Code Version	2014
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	Pella Corporation
Address/Phone/Email	102 Main St. Pella, IA 50219 (641) 621-6096 pellaproductapproval@pella.com
Authorized Signature	Kyle Punt pункj@pella.com
Technical Representative	Joseph Hayden
Address/Phone/Email	102 Main Street Pella, IA 50219 (641) 621-6096 jahayden@pella.com
Quality Assurance Representative	Pat Bortscheller
Address/Phone/Email	102 Main Street Pella, IA 50219 (641) 621-1000 PJBortscheller@pella.com
Category	Windows
Subcategory	Casement
Compliance Method	Certification Mark or Listing
Certification Agency	Window and Door Manufacturers Association
Validated By	James L. Buckner, P.E. at CBUCK Engineering Validation Checklist - Hardcopy Received
Referenced Standard and Year (of Standard)	Standard AAMA/WDMA/CSA101/I.S.2/A440-08
	Year 2008
Equivalence of Product Standards	
Certified By	
Product Approval Method	Method 1 Option A

Date Submitted 10/27/2015
 Date Validated 10/28/2015
 Date Pending FBC Approval
 Date Approved 10/29/2015

Summary of Products

FL #	Model, Number or Name	Description
11504.1	ProLine Series	Clad Vent Casement - Non HIG (35" x 71")
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +40/-40 Other: Configurations of glass shall conform to current ASTM E1300 standard		Certification Agency Certificate FL11504 R4 C CAC CCL 35x71 PG40.pdf Quality Assurance Contract Expiration Date 02/08/2020 Installation Instructions FL11504 R4 II Drawing 1154.pdf Verified By: Warren W. Schaefer, P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL11504 R4 AE Drawing 1154.pdf Created by Independent Third Party: Yes
11504.2	ProLine Series	Clad Vent Casement - Non HIG (35" x 71")
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Configurations of glass shall conform to current ASTM E1300 standard. Window shall have a HP hardware kit.		Certification Agency Certificate FL11504 R4 C CAC CCL 35x71 PG50.pdf Quality Assurance Contract Expiration Date 02/18/2020 Installation Instructions FL11504 R4 II Drawing 1154.pdf Verified By: Warren W. Schaefer, P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL11504 R4 AE Drawing 1154.pdf Created by Independent Third Party: Yes
11504.3	ProLine Series	Clad Vent Casement - Non HIG (35" x 59")
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Configurations of glass shall conform to current ASTM E1300 standard		Certification Agency Certificate FL11504 R4 C CAC CCL 35x59.pdf Quality Assurance Contract Expiration Date 02/08/2020 Installation Instructions FL11504 R4 II Drawing 1154.pdf Verified By: Warren W. Schaefer, P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL11504 R4 AE Drawing 1154.pdf Created by Independent Third Party: Yes
11504.4	ProLine Series	Clad Vent Casement - Non HIG (25" x 71")
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Configurations of glass shall conform to current ASTM E1300 standard		Certification Agency Certificate FL11504 R4 C CAC CCL 25x71.pdf Quality Assurance Contract Expiration Date 02/08/2020 Installation Instructions FL11504 R4 II Drawing 1154.pdf Verified By: Warren W. Schaefer, P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL11504 R4 AE Drawing 1154.pdf Created by Independent Third Party: Yes

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

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Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:



GENERAL NOTES:

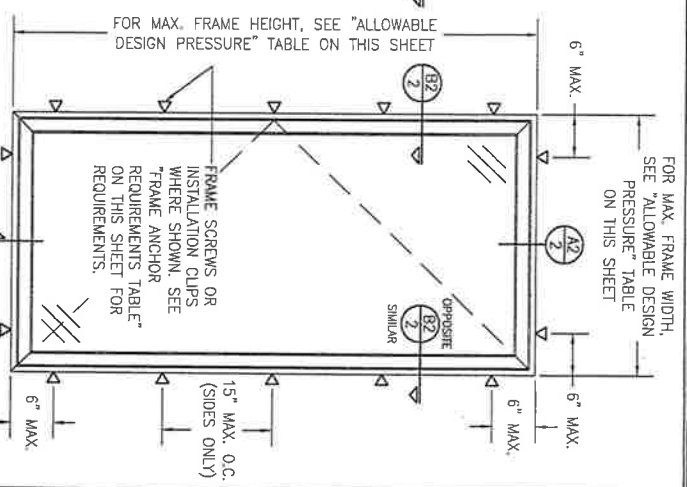
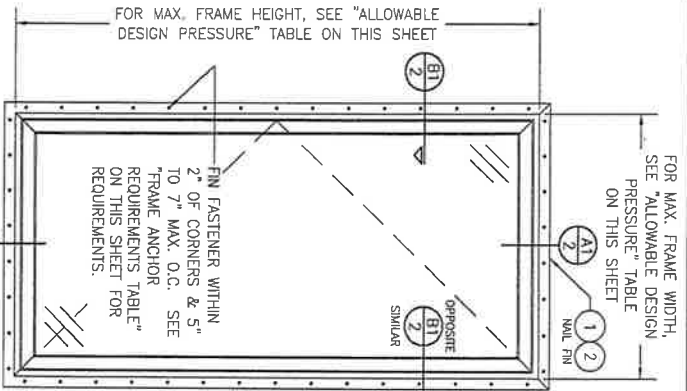
1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BERTHOFF WALL FINISH OR STUCCO.
2. OPENINGS, BRACKETS & BRIDGE FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
3. THESE NON-IMPACT RATED PRODUCT INSTALLATIONS ARE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
4. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
5. ALL ANCHORS SHALL BE LIMITED TO STEEL SPACERS THAT COME AND CONFORM TO THE REQUIREMENTS OF THE FBC.
6. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS CERTIFIED & QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QUALITY ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. PRODUCT ASSEMBLY IS NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. CERTIFICATION OF THESE PRODUCT INSTALLATIONS SHALL BE CONSIDERED VOID IF ANY OF THE FOLLOWING APPLY: 1) PRODUCT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT. 2) PRODUCT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH THE INSTALLATIONS OF THIS TYPE OF PRODUCT. 3) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION ENTITY'S CERTIFICATE THAT CAUSE THESE INSTALLATIONS TO BE INCORRECT OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
8. THE LEAST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR IN THE PRODUCT'S CERTIFICATION ENTITY'S CERTIFICATE SHALL BE USED FOR DESIGN.
9. THESE DRAWINGS DENOTE THE PRODUCT INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0-55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 1B GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-15 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) INSTALLATION CLIP SCREWS (STANDARD BENT CONDITION)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0-55)	NO. 8 X 1 1/2" SMS	1 3/8"	(2) N/A
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
MIN. 1/8" THK 6063-15 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
INSTALLATION CLIP SCREWS (ALTERNATE STRAIGHT CONDITION)			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0-55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 1B GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-15 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(3) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0-55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0-55)	11 GA. ROOFING NAIL	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-15 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

ALLOWABLE DESIGN PRESSURE		
MAX. FRAME WIDTH (IN)	MAX. FRAME HEIGHT (IN)	ALLOWABLE PRESSURE (+/- PSF)
35	71	40
35	71	(1) 50
35	59	50
25	71	50

(1) 35" X 71" WINDOW SHALL HAVE PELLA'S HP HARDWARE KIT. PRESSURE SHOWN IN THIS TABLE IS FOR INSTALLATION CONDITIONS ONLY. THE GOVERNING DESIGN PRESSURE ON THE WINDOWS SHALL BE THE LESSER OF THAT SHOWN IN THE INDIVIDUAL WINDOW'S STATE APPROVAL OR THAT SHOWN IN THIS TABLE.

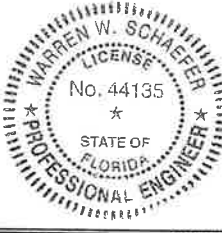


EDGE DISTANCE MAY BE DECREASED TO 1/2" IF SCREWS ARE ANGLED 15 TO 20 DEGREES AWAY FROM THE EDGE.

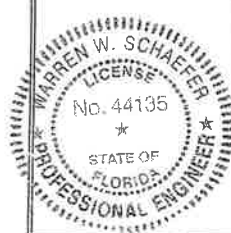
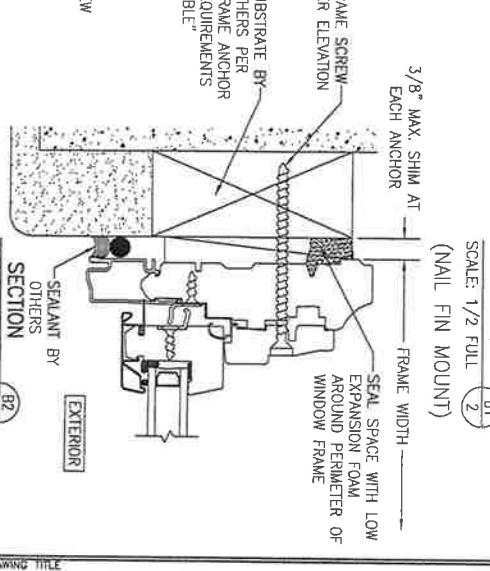
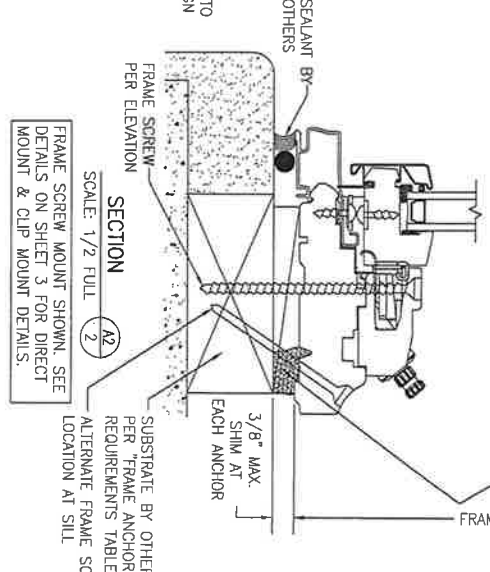
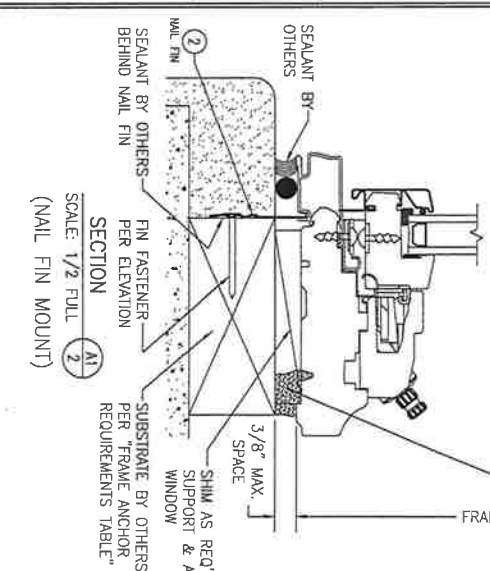
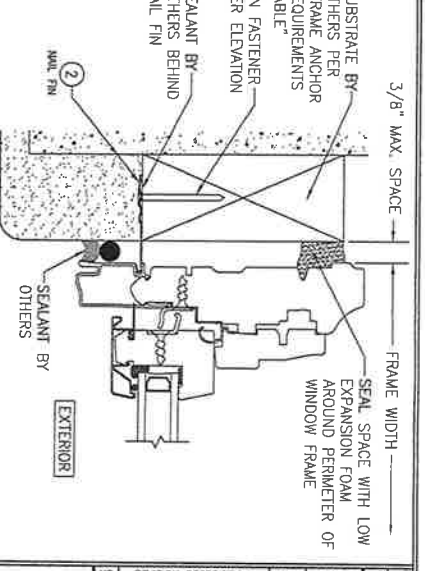
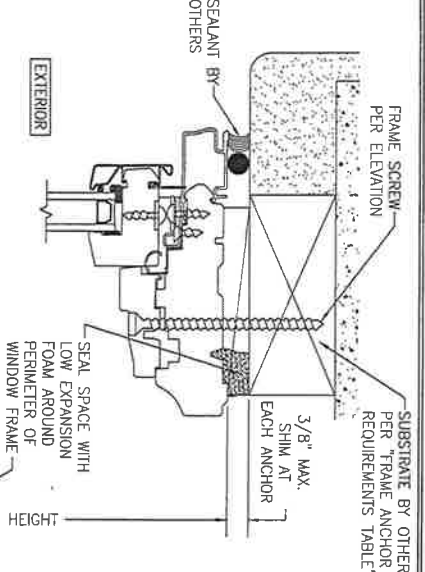
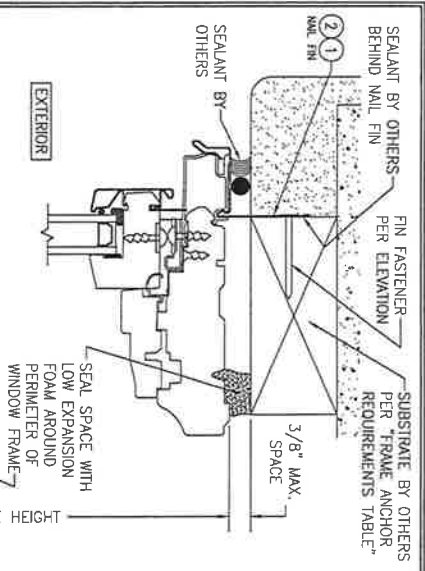
ALTERNATE ANCHOR/SUBSTRATE EVALUATION NOTE:
 ALL ALTERNATE ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE EQUIVALENT TO OR STRONGER THAN THE ANCHOR(S) USED IN TESTING WITH THIS PRODUCT.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR REPORTS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THE REFERENCED PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE INSTALLATION SPECIALIST ENGINEER OF RECORD THAT THE INSTALLATION SPECIALIST ENGINEER OF RECORD HAS REVIEWED THE CURRENT TESTING, CODE AND APPLICABLE STANDARDS.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSUMED MANUFACTURER OR ANY OTHER PRODUCT NOR MAY ANY PRODUCT NOT PROVIDED BY THE MANUFACTURER BE INSTALLED ON THESE DRAWINGS.



DRAWING NO. 1154 SHEET NO. 3 DATE: OCT 22 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	CERTIFICATION OCT 22 2015	DRAWING TITLE PROLINE SERIES NON-IMPACT CLAD CASEMENT WINDOW	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000	<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISION DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>A1</td> <td>UPDATE PER NEW TESTING</td> <td>W.R.M.</td> <td>09/28/11</td> </tr> <tr> <td>B1</td> <td>UPDATE TO CURRENT STANDARDS</td> <td>W.R.M.</td> <td>01/30/12</td> </tr> <tr> <td>C1</td> <td>UPDATE TO CURRENT STANDARDS</td> <td>W.W.S.</td> <td>10/22/15</td> </tr> </tbody> </table>	NO.	REVISION DESCRIPTION	BY	DATE	A1	UPDATE PER NEW TESTING	W.R.M.	09/28/11	B1	UPDATE TO CURRENT STANDARDS	W.R.M.	01/30/12	C1	UPDATE TO CURRENT STANDARDS	W.W.S.	10/22/15
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CERTIFICATION
OCT 22 2015
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

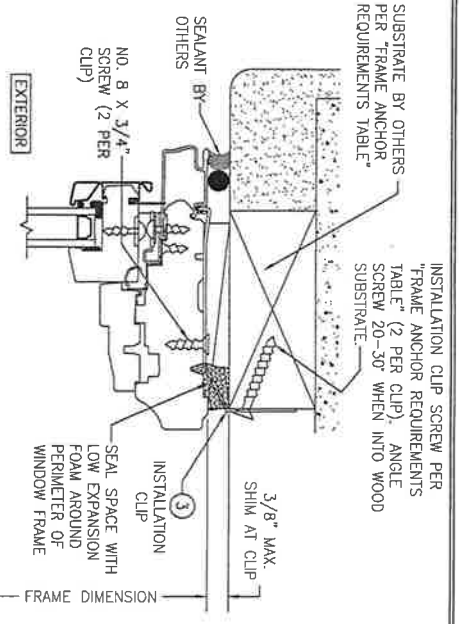
DRAWING TITLE
PROLINE SERIES NON-IMPACT CLAD CASEMENT WINDOW

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-5424

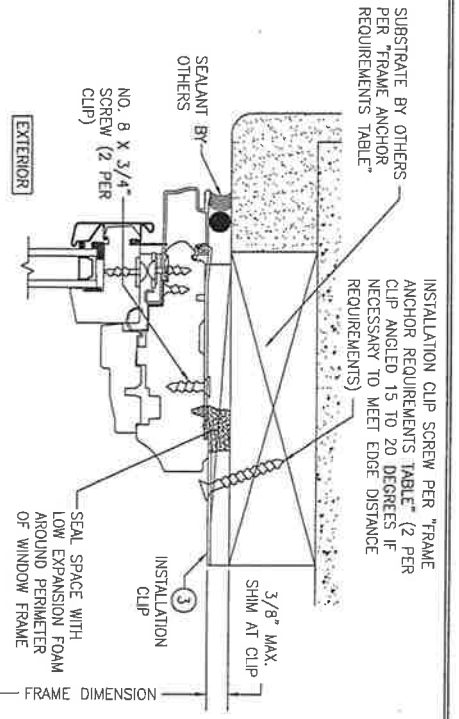
MANUFACTURER
Pella
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

NO.	REVISION DESCRIPTION	BY	DATE
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2			

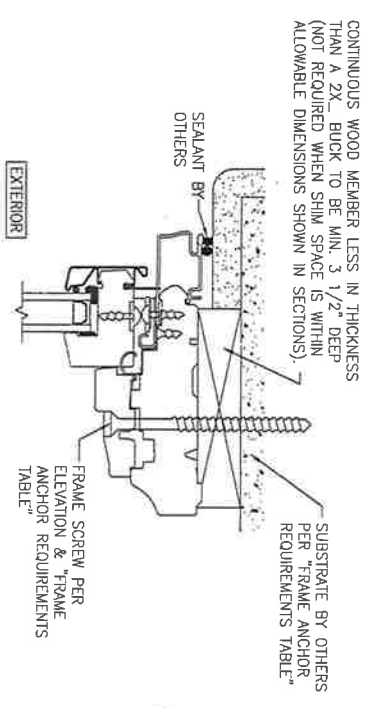
DRAWING NO. 1154
SHEET NO. 2 OF 3



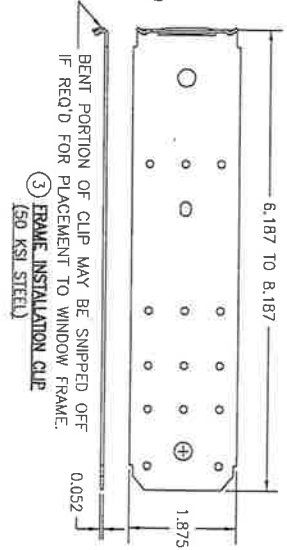
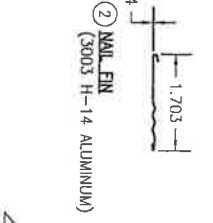
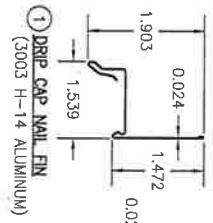
STANDARD INSTALLATION CLIP DETAIL
 (HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



ALTERNATE INSTALLATION CLIP DETAIL
 (HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
 (HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



DRAWING NO.		REVISION DESCRIPTION		BY	DATE	DRAWN BY	CHECKED BY
1154	C						
3	OF 3						

CERTIFICATION OCT 22 2015 WARREN W. SCHAEFER P.E. P.E. NO. 44135		DRAWING TITLE PROLINE SERIES NON-IMPACT CLAD CASEMENT WINDOW		MANUFACTURER PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424					



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Product Approval
USER: Public User

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



FL #	FL11012-R5
Application Type	Affirmation
Code Version	2014
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Pella Corporation
Address/Phone/Email	102 Main St. Pella, IA 50219 (641) 621-6096 pellaproductapproval@pella.com
Authorized Signature	Joe Hayden Sandi Robinson pellaproductapproval@pella.com
Technical Representative	Joseph Hayden
Address/Phone/Email	102 Main Street Pella, IA 50219 (641) 621-6096 jahayden@pella.com
Quality Assurance Representative	Pat Bortscheller
Address/Phone/Email	102 Main Street Pella, IA 50219 (641) 621-1000 PJBortscheller@pella.com
Category	Windows
Subcategory	Fixed
Compliance Method	Certification Mark or Listing
Certification Agency	Window and Door Manufacturers Association
Validated By	Terrence E. Lunn, PE <input type="checkbox"/> Validation Checklist - Hardcopy Received
Referenced Standard and Year (of Standard)	Standard AAMA/WDMA/CSA 101/I.S.2/A440-08
	Year 2008
Equivalence of Product Standards Certified By	

I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity Yes No N/A

Product Approval Method	Method 1 Option A
Date Submitted	01/19/2015
Date Validated	01/19/2015
Date Pending FBC Approval	
Date Approved	01/21/2015

Summary of Products

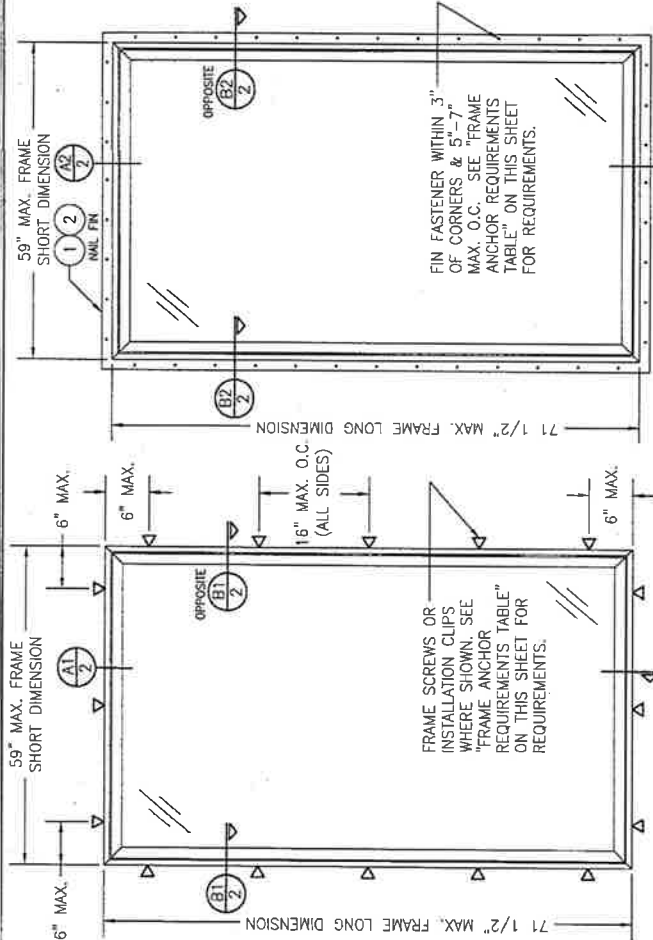
FL #	Model, Number or Name	Description
11012.1	ProLine Series Fixed Casement	1346 x 1816 mm (53 x 71.5 inch) Fixed Casement Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50.0/-50.0 Other: Configurations of glass shall conform to current ASTM-E-1300 standards.		Certification Agency Certificate FL11012_R5_C_CAC_53x715.pdf Quality Assurance Contract Expiration Date 12/21/2018 Installation Instructions FL11012_R5_II_Drawing_1517.pdf Verified By: Warren W. Schaefer, P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL11012_R5_AE_Drawing_1517.pdf Created by Independent Third Party: Yes
11012.2	ProLine Series Fixed Casement	1346 x 1041 mm (53 x 41 inch) Fixed Casement Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50.0/-50.0 Other: Configurations of glass shall conform to current ASTM-E-1300 standards.		Certification Agency Certificate FL11012_R5_C_CAC_53x41.pdf Quality Assurance Contract Expiration Date 12/21/2018 Installation Instructions FL11012_R5_II_Drawing_1517.pdf Verified By: Warren W. Schaefer, P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL11012_R5_AE_Drawing_1517.pdf Created by Independent Third Party: Yes
11012.3	ProLine Series Fixed Casement	1499 x 1816 mm (59 x 71.5 inch) Fixed Casement Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50.0/-50.0 Other: Configurations of glass shall conform to current ASTM-E-1300 standards.		Certification Agency Certificate FL11012_R5_C_CAC_59x715.pdf Quality Assurance Contract Expiration Date 12/21/2018 Installation Instructions FL11012_R5_II_Drawing_1517.pdf Verified By: Warren W. Schaefer, P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL11012_R5_AE_Drawing_1517.pdf Created by Independent Third Party: Yes
11012.4	ProLine Series Fixed Casement	889 x 1346 mm (35 x 53 inch) Fixed Casement Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50.0/-50.0 Other: Configurations of glass shall conform to current ASTM-E-1300 standards.		Certification Agency Certificate FL11012_R5_C_CAC_35x53.pdf Quality Assurance Contract Expiration Date 12/21/2018 Installation Instructions FL11012_R5_II_Drawing_1517.pdf Verified By: Warren W. Schaefer, P.E. 44135 Created by Independent Third Party: Yes Evaluation Reports FL11012_R5_AE_Drawing_1517.pdf Created by Independent Third Party: Yes

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EXTERIOR ELEVATION:
SINGLE FIXED WINDOW
 SCALE: 3/4" = 1'-0"
 (NAIL FIN MOUNT CONDITION)

EXTERIOR ELEVATION:
SINGLE FIXED WINDOW
 SCALE: 3/4" = 1'-0"
 (SCREW OR CLIP MOUNT CONDITION)

ALLOWABLE DESIGN PRESSURE
 +/-50 PSF

EDGE DISTANCE MAY BE
 DECREASED TO 1/2" IF SCREWS
 ARE ANGLED 15 TO 20 DEGREES
 AWAY FROM THE EDGE.

ALTERNATE ANCHOR/SUBSTRATE EVALUATION NOTE:
 ALL ALTERNATE ANCHORS IN THEIR SPECIFIED
 SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE
 WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND
 TO BE EQUIVALENT TO OR STRONGER THAN THE
 ANCHOR(S) USED IN TESTING WITH THIS PRODUCT.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR STANDARDS AND/OR
 INFORMATION FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING
 CODE VERSION CONSIDERED WITH THE EVALUATION WAS THAT IN FORCE AT THE TIME
 OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN
 THE EVENT OF NEW OR ADDITIONAL TESTING IS COMPLETED ON THE REFERENCED
 PRODUCT, THE EVALUATION ENGINEER SHALL BE CONTACTED FOR A RE-EVALUATION.
 THIS EVALUATION IS NOT A GUARANTEE OF PERFORMANCE. THE EVALUATION ENGINEER
 SHALL CONSIDER THE INSTALLATION EVALUATION ENGINEER OF RECORD THAT THE
 INSTALLATIONS SPECIFIED HERE-IN ARE CURRENT WITH THE THEN CURRENT TESTING,
 CODE AND APPLICABLE STANDARDS.

GENERAL NOTES:
 1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE
 MATERIALS SHALL BE BEYOND WALL FINISH OR STUCCO.
 2. THESE NON-IMPACT RATED WINDOW SYSTEM INSTALLATIONS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND
 LOADS TO THE STRUCTURE.
 3. THESE NON-IMPACT RATED WINDOW SYSTEM INSTALLATIONS ARE IN ACCORDANCE WITH AND MEET THE
 REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
 4. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE
 OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
 5. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR
 MATERIALS SHALL BE PROTECTED AGAINST GALVANIC CORROSION BY THE USE OF AN ANTI-CORROSION
 PAINT OR THE BEST OF OUR KNOWLEDGE. THE ANCHORS SHOWN HEREIN ARE CERTIFIED & QUALITY ASSURED BY A
 FLORIDA STATE APPROVED CERTIFICATION/REGISTERED PROFESSIONAL ENGINEER WITH THE FLORIDA
 FLORIDA STATE APPROVED CERTIFICATION/REGISTERED PROFESSIONAL ENGINEER WITH THE FLORIDA
 NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE
 SPECIFICATIONS & TESTING REPORTS.
 7. CERTIFICATION OF THESE WINDOW INSTALLATIONS SHALL BE CONSIDERED VOID IF ANY OF THE FOLLOWING
 APPLY: 1) THEY ARE INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT.
 2) IF THEY ARE INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH WINDOW
 INSTALLATIONS. 3) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION ENTITY'S CERTIFICATE THAT
 CAUSE THESE INSTALLATIONS TO BE INCORRECT OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
 8. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOWS IS
 NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER
 &/OR INSTALLER.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS (STANDARD BENT CONDITION)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	(2)N/A
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2)N/A
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2)N/A
INSTALLATION CLIP SCREWS (ALTERNATE STRAIGHT CONDITION)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(3) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 7/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

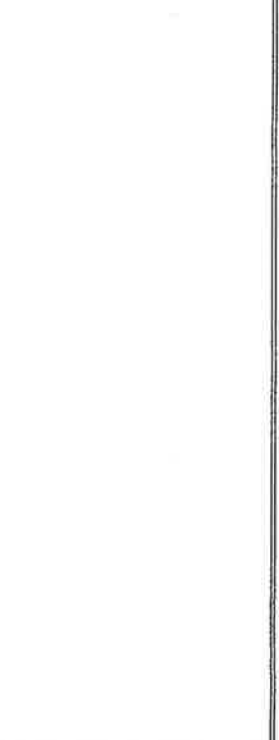
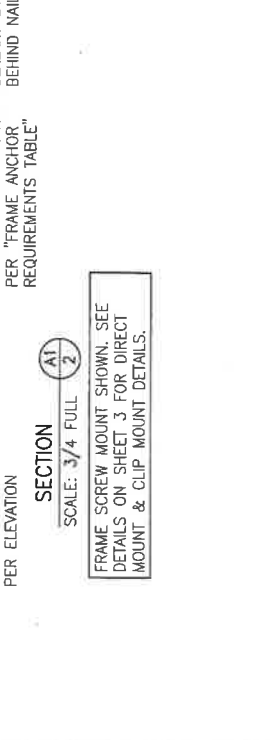
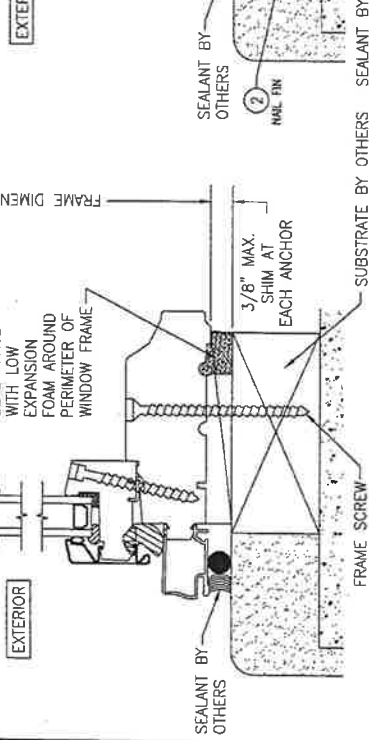
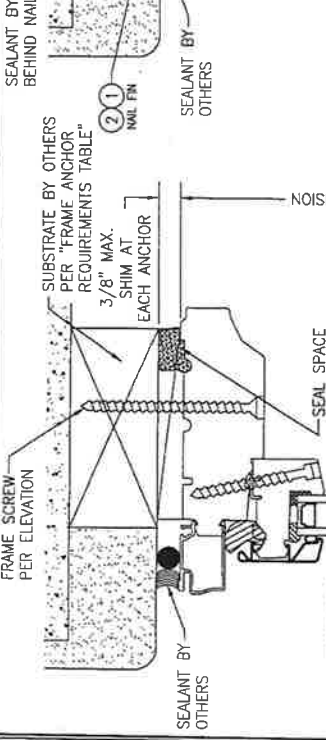
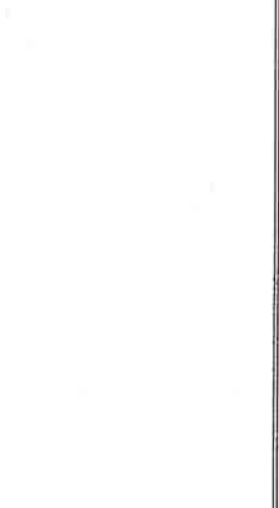
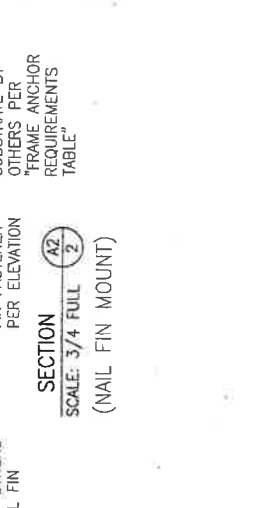
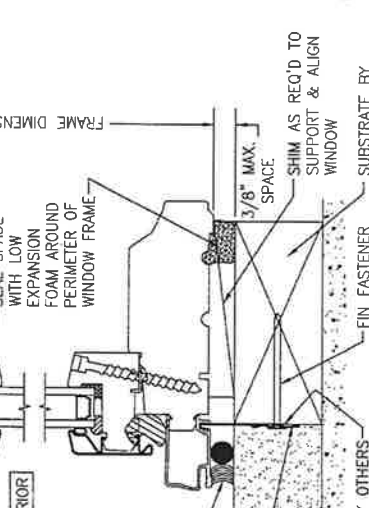
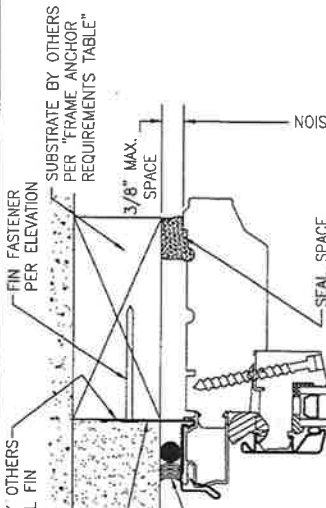
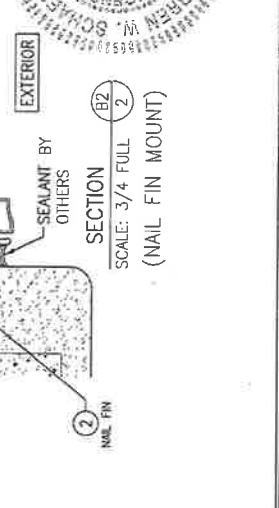
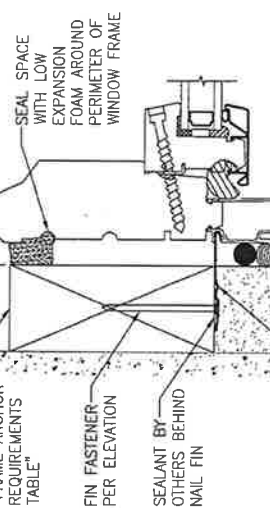
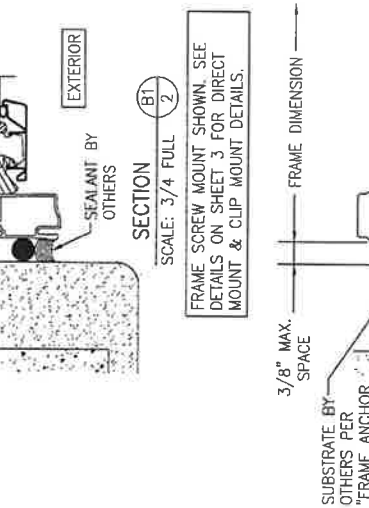
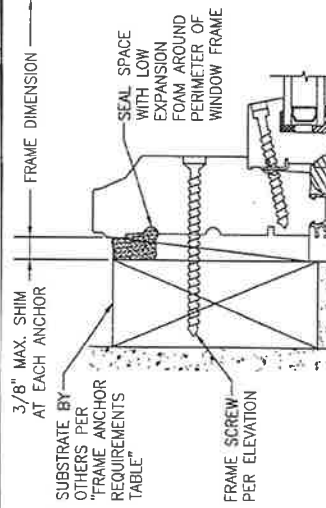
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSEY/RED
 HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
 (2) STANDARD BENT CLIP INSTALLATION SCREWS SHALL BE POSITIONED WITHIN 1/4" OF THE
 BUCK/SUBSTRATE EDGE AND, IF INTO WOOD, ANGLED 20 TO 30 DEGREES INTO THE BUCK.
 (3) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE
 A FLAT WASHER AT THE SCREW HEAD.

OWNER BY:	DATE:
PROJECT:	DATE:
NO.	REVISION DESCRIPTION
BY	DATE

ALUMINUM CLAD WOOD FIXED CASEMENT/AWNING
NON-IMPACT WINDOWS (PROLINE SERIES)

W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DRAWING NO. 1517
SHEET NO. 2 OF 3



FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 3 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

NO.	REVISION DESCRIPTION	BY	DATE

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219
 641-621-1000

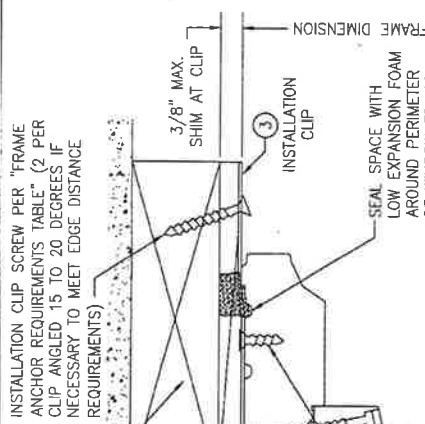
W. W. SCHAFFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH
 PALM BEACH GARDENS, FL 33418
 PHONE: 561-744-3424

CERTIFICATION
 DATE: 08/21/2014
 W. W. SCHAFFER, P.E. No. 44135

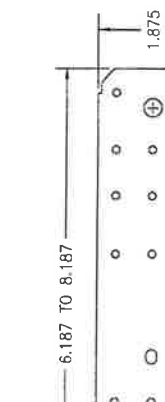
DRAWING NO.: 1517-D
 SHEET NO.: 3 OF 3



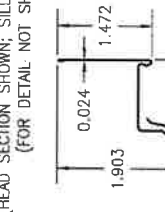
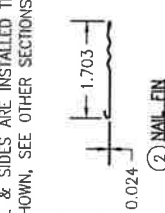
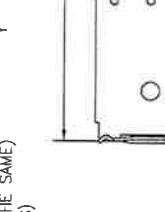
STANDARD INSTALLATION CLIP DETAIL
 (HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



ALTERNATE INSTALLATION CLIP DETAIL
 (HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
 (HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



BENT PORTION OF CLIP MAY BE SNIPPED OFF FOR PLACEMENT TO WINDOW FRAME.

① DRIP CAP NAIL FIN (3003 H-14 ALUMINUM)
 ② NAIL FIN (3003 H-14 ALUMINUM)

① FRAME INSTALLATION CLIP (50 KSI STEEL)



SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE" (2 PER CLIP). ANGLE SCREW 20-30° WHEN INTO WOOD SUBSTRATE.
 3/8" MAX. SHIM AT CLIP
 1/4" MAX. SHIM AT CLIP
 SEALANT BY OTHERS
 NO. 8 X 3/4" SCREW (2 PER CLIP)
 EXTERIOR
 SEAL SPACE WITH LOW EXPANSION FOAM AROUND PERIMETER OF WINDOW FRAME
 INSTALLATION CLIP
 FRAME DIMENSION

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE" (2 PER CLIP). ANGLE SCREW 20-30° WHEN INTO WOOD SUBSTRATE.
 3/8" MAX. SHIM AT CLIP
 SEALANT BY OTHERS
 NO. 8 X 3/4" SCREW (2 PER CLIP)
 EXTERIOR
 SEAL SPACE WITH LOW EXPANSION FOAM AROUND PERIMETER OF WINDOW FRAME
 INSTALLATION CLIP
 FRAME DIMENSION

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE" (2 PER CLIP). ANGLE SCREW 20-30° WHEN INTO WOOD SUBSTRATE.
 3/8" MAX. SHIM AT CLIP
 SEALANT BY OTHERS
 NO. 8 X 3/4" SCREW (2 PER CLIP)
 EXTERIOR
 SEAL SPACE WITH LOW EXPANSION FOAM AROUND PERIMETER OF WINDOW FRAME
 INSTALLATION CLIP
 FRAME DIMENSION

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X. BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS)

FRAME SCREW PER ELEVATION & "FRAME ANCHOR REQUIREMENTS TABLE"



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Product Approval
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OFFICE OF THE
SECRETARY

FL #	FL13815-R2
Application Type	Revision ✓
Code Version	2014
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Pella Corporation
Address/Phone/Email	102 Main St. Pella, IA 50219 (641) 621-6096 pellaproductapproval@pella.com
Authorized Signature	Joe Hayden Sandi Robinson pellaproductapproval@pella.com
Technical Representative	Joseph Hayden
Address/Phone/Email	102 Main Street Pella, IA 50219 (641) 621-6096 jahayden@pella.com
Quality Assurance Representative	Pat Bortscheller
Address/Phone/Email	102 Main Street Pella, IA 50219 (641) 621-1000 PJBortscheller@pella.com
Category	Windows
Subcategory	Mullions
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	Robert J. Amoruso
Florida License	PE-49752
Quality Assurance Entity	Architectural Testing, Inc.
Quality Assurance Contract Expiration Date	12/31/2018
Validated By	Charles A. Pagen P. E., Ph. D. Fenestration Technology ✓ Validation Checklist - Hardcopy Received
Certificate of Independence	FL13815 R2 COI CI 1673 Rev1 415-0309 Mullion_ss.pdf FL13815 R2 COI CI 1678 Rev1 415-0309 Mullion_ss.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1609.1.2

1710.5.3
R301.2.1.2
R612.8

Product Approval Method: Method 2 Option B
Date Submitted: 05/28/2015
Date Validated: 05/30/2015
Date Pending FBC Approval: 06/02/2015
Date Approved: 08/19/2015

Summary of Products

FL #	Model, Number or Name	Description
13815.1	Pella Clad and Wood Windows	Joining Mullion with End Anchors - Window to Window Combinations
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Compliance limited to Wind Zone 3 or less where basic wind speeds do not exceed 140 mph. See page 2 of report for applicable Pella products.		Installation Instructions FL13815 R2 II Pella Report No. 0507-04 060110 ss.pdf Verified By: Robert J. Amoruso PE-49752 Created by Independent Third Party: Yes Evaluation Reports FL13815 R2 AE PER 1673 Pella Rev1 ss.pdf Created by Independent Third Party: Yes
13815.2	Pella Clad and Wood Windows and Doors	Joining Mullion with End Anchors - Door to Window and Door to Door Combinations
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Compliance limited to Wind Zone 3 or less where basic wind speeds do not exceed 140 mph. See page 2 of report for applicable Pella products.		Installation Instructions FL13815 R2 II Pella Report No. 0506-06 060710 ss.pdf Verified By: Robert J. Amoruso PE-49752 Created by Independent Third Party: Yes Evaluation Reports FL13815 R2 AE PER 1678 Pella Rev1 ss.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



Credit Card
Safe



Pella Corporation

102 Main Street
Pella, Iowa 50219

PROJECT:
***MULLION CALCULATIONS
FOR VERTICAL AND HORIZONTAL MULLION***

SERIES: Joining Mull for Windows
(Tight Mulls)

PROJECT NO.: 415-0309
REPORT NO.: 0507-4
DATE: 5/26/2015



Digitally signed by
Robert J. Amoruso
DN: cn=Robert J.
Amoruso, o, ou=PTC
Product Design Group,
email=robert@ptc-
corp.com, c=US
Date: 2015.05.26
10:53:11 -04'00'

Prepared by:
PTC, PRODUCT DESIGN GROUP
P.O. Box 520775
Longwood, Florida 32752
Phone: (321) 690-1788
Fax: (321-) 690-1789

Evaluated By:
ROBERT J. AMORUSO, P.E.
FL. NO. 49752
F.B.P.E. CERTIFICATE OF AUTHORIZATION NO. 25935



PTC PRODUCT DESIGN GROUP, LLC

P.O. Box 520775
Longwood, Florida 32752

Client: Pella Corporation
Project #: 415-0309
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Prepared by: RJA
Date: 5/26/2015
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SCOPE PTC, PRODUCT DESIGN GROUP was contracted by Pella Corporation to perform engineering evaluations of various mulled window combinations. This report will be based on joining the properties of the weakest wood frame (Casement Window) jambs as demonstrated in the section property section of this report, by evaluation of possible groupings of mullions based on section property comparisons in accordance with the AAMA 450-06/09/10. Structural analysis of the mullions is based on the current edition of the Florida Building Code – Building and Residential Volumes, Chapter 17 and Chapter 6 respectively using the product grouping method and tributary loading of AAMA 450.

PRODUCT APPLICABILITY: This report is applicable to the following Pella Corporation product lines and types only.

1. Product Lines

- a. Architect Series (including HurricaneShield, 850 Series), exterior clad and wood.
- b. Designer Series (750 Series), exterior clad
- c. Proline Series (450 Series), exterior clad
- d. Pella Support Products, exterior clad
- e. Pella Entry Systems, exterior clad and wood

2. Product Types

- a. Casement
- b. Awning
- c. Picture
- d. Direct Set Geometric and Radius
- e. Double Hung *

* Not applicable for vertical mulls on impact double hung.

3. Product Materials

- a. Extruded aluminum for aluminum portions of window.
- b. Pine for wood portions of window frames.

The tributary areas are identified and calculated. These results are used to calculate the maximum pressure that the product can withstand without exceeding the allowable stresses or deflection. The minimum of these results is selected and defined as the design pressure for the product. Mullion stress and deflection is calculated using the AAMA 450 load distribution method.

For each mullion configuration, spreadsheet programs are used to calculate the apparent EI and equivalent I, a design pressure verification using equivalent I, and alternate spans from the design pressure calculation.



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ANALYSIS METHODOLOGY:

The following methodology was used to develop the Load width span tables presented in this report.

1. Determine the allowable design pressure (D.P.) based on the actual shear stress, bending stress, deflection and mullion reactions as compared to their respect design allowables choosing the worst case.
- 2.. Worst case section properties determined by a comparison of the individual component sections of the applicable products, the cross sections exhibiting the lowest Moment of Inertia (I) and section Modulus (Z) will be used. Area as it is related to shear stress does not govern design so it is not a deciding factor of the worst case section.
3. Using a ratio of the wood window jambs Modulus of Elasticity (E) compute the overall apparent section properties of the worst case cross section.
4. Use the properties determined above in determining the load width/span tables.
5. Analysis based on:
 - a. Horizontal Shear Stress = P/A (psi)
 - b. Bending Stress = $Mc/I = M/Z$ (psi)
 - i. M = bending moment and is equal to M/Kf
 - ii. Kf is moment coefficient based on trapezoidal load distribution.
 - c. Deflection = $WL^3 / KdEI$
 - i. Kd is deflection coefficient based on trapezoidal distribution.
 - ii. W is load on mullion in Lbs. = wL where w is distributed load in Lbs/in and L in mullion span inches.
 - d. Mullion End Load Reactions
 - i. Based on trapezoidal load on mullion resolved into total load distributed to each end of mullion equally.
6. Load Width/Span Tables based on:
 - a. Solving for the allowable design pressure (D.P.) considering various window sizes and mullion spans.



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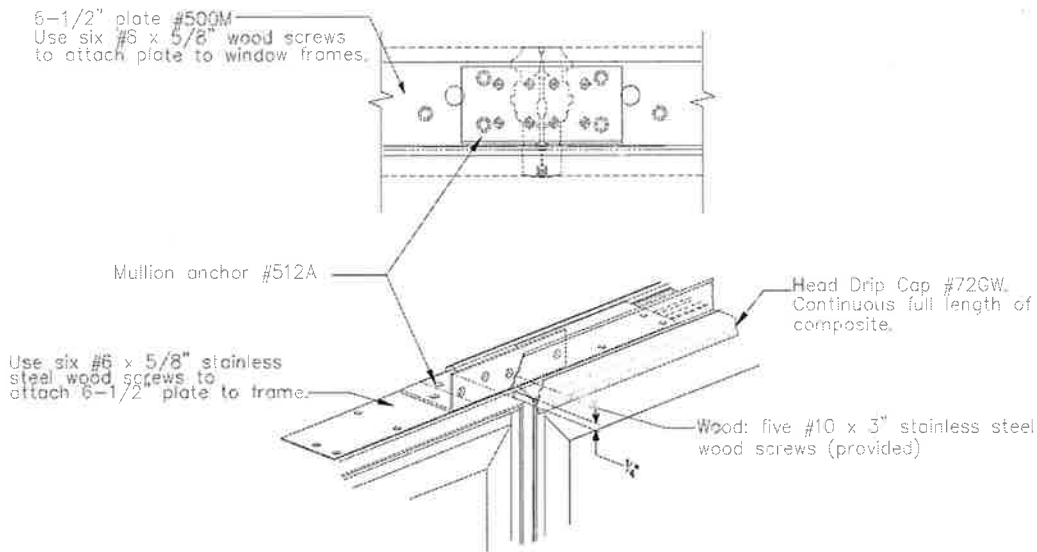
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MULLION END ANCHORAGE:

1. Calculated performance is based on the following:
Mullions anchor plates
 - a. 512-A Wood mullion anchor clip. (316 stainless steel)
 - e. 5071 installation type clip (A-653 Hot dipped Galvanized steel)

MULLION ATTACHEMENT:

2. a. **Mullion End Clip 512-A (Fin mull anchor clip)**
 - i. The end clip is secured to each end of window jambs using eight #10 x 5/8" wood screws below, and requires a minimum of 1-1/2" wood buck thickness (See Detail A).
 - ii. For 6-1/2" plate attachment to both window frames use ten (6) #8 x 5/8" stainless steel screws.
 - iii. For clip attachment to wood frame substrates use five (5) #10 x 2" long or longer wood screws per clip leg into the installation bucking or frame with a minimum of 1 1/2" embedment into substrate and maintaining at least 3/4" minimum edge distance is required based on the analysis used in this report for development of the load width and span.



Mullion End Clip 512-A (Fin mull anchor clip)
Detail A



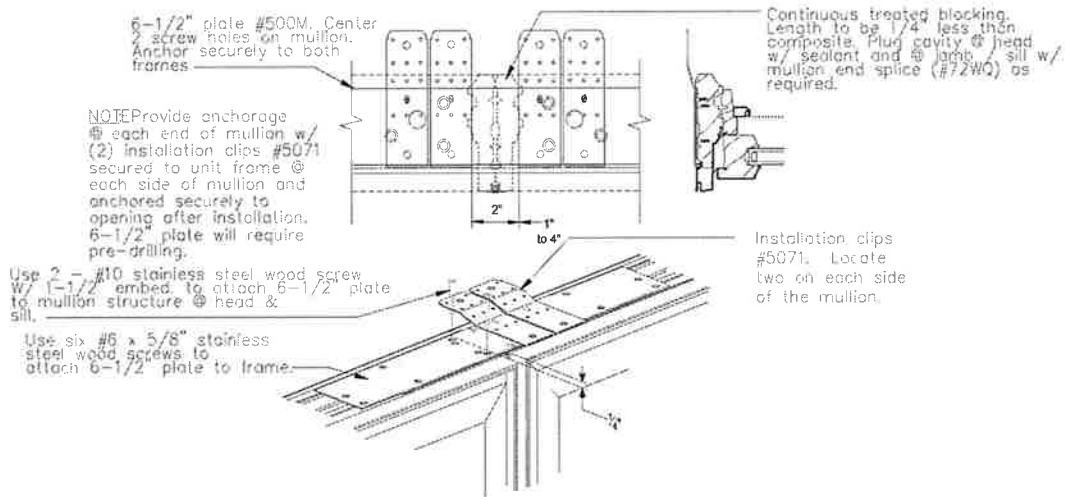
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f. Mullion End Clip 5071

- i. The end clips are secured to each end of joined widow frames using a 6-1/2" steel plate #500M installed directly over both frames, then install two (2) 5071 mull clips two at each side of the joined window frames, (See Detail B)
- ii. For 6-1/2" plate attachment to both window frames use ten (10) #8 x 5/8" stainless steel screws.
- iii. For clip attachment to wood frame substrates use a total of four (4) #10 x 2" long or longer wood screws one per each clip leg into the installation bucking or frame with a minimum of 1 1/2" embedment into substrate and maintaining at least 3/4" minimum edge distance, for clip attachment to window frames through plate use two (2) #5/8" stainless steel screws per each clip is required based on the analysis used in this report for development of the load width span.
- iv. For clip attachment to CMU or concrete substrates use a total of four (4) 3/16" dia. masonry anchors one (1) per each clip leg into the installation bucking or frame with a minimum of 1 1/4" embedment into substrate and maintaining at least 2 5/8" minimum edge distance each clip anchor hole spacing must be located at least on 2 1/4" spacing between anchors, for clip attachment to window frames through plate use two (2) #10 x 5/8" stainless steel screws per each individual clip is required based on the analysis of this report for development of the load width span.



Detail B
Mullion End Clip 5071



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REFERENCED DOCUMENTS:

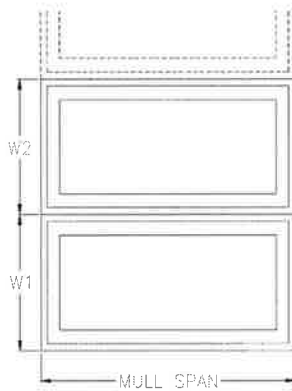
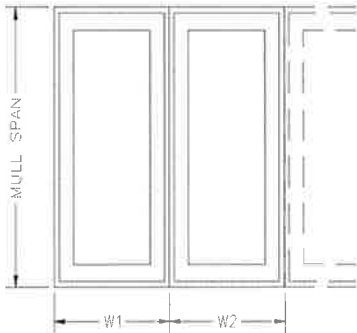
1. AAMA 450-06/09/10
2. Florida Building Code
 - a. Current Edition of the Florida Building Code (FBC), Building Volume
 - i. Chapter 17 - Mullions
 - b. Current Edition of the Florida Building Code (FBC), Residential volume
 - i. Chapter 6 - Mullions



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MULLION TABLE 1 (VERTICAL OR HORIZONTAL SPAN—JOINING MULLION FOR WINDOW UNITS)											
MULL SPAN (in.)	LOAD WIDTH (in.)	CLIP TYPE 512A (PSF)	CLIP TYPE 5071 (PSF)	MULL SPAN (in.)	LOAD WIDTH (in.)	CLIP TYPE 512A (PSF)	CLIP TYPE 5071 (PSF)	MULL SPAN (in.)	LOAD WIDTH (in.)	CLIP TYPE 512A (PSF)	CLIP TYPE 5071 (PSF)
36	24	85	85	66	24	68	68	96	24	30	30
	30	85	85		30	56	56		30	24	24
	36	85	85		36	48	48		36	21	21
	42	85	85		42	43	43		42	18	18
	48	85	85		48	39	39		48	16	16
	54	85	85		54	37	37		54	15	15
	60	85	85		60	36	36		60	14	14
	66	85	85		66	35	35		66	13	13
42	24	85	85	72	24	57	57				
	30	85	85		30	46	46				
	36	85	85		36	40	40				
	42	85	85		42	35	35				
	48	85	85		48	30	30				
	54	85	85		54	27	27				
	60	85	85		60	28	28				
	66	85	85		66	28	28				
48	24	85	85	78	24	48	48				
	30	85	85		30	39	39				
	36	85	85		36	33	33				
	42	85	85		42	29	29				
	48	85	85		48	27	27				
	54	85	85		54	25	25				
	60	85	85		60	23	23				
	66	85	85		66	22	22				
54	24	85	85	84	24	41	41				
	30	85	85		30	33	33				
	36	76	76		36	28	28				
	42	69	69		42	25	25				
	48	66	66		48	22	22				
	54	65	65		54	21	21				
	60	65	65		60	19	19				
	66	65	65		66	18	18				
60	24	83	83	90	24	36	36				
	30	68	68		30	29	29				
	36	59	59		36	25	25				
	42	54	54		42	21	21				
	48	50	50		48	19	19				
	54	48	48		54	18	18				
	60	47	47		60	16	16				
	66	47	47		66	15	15				

THIS CHART APPLIES TO MULTIPLE WIDE 1 HIGH, VERTICALLY OR HORIZONTAL.

LOAD WIDTH MUST BE CALCULATED USING LARGEST ADJACENT (SIDE BY SIDE) WINDOW HEIGHTS OR WIDTHS.

MULL SPANS ARE RESTRICTED BY THE LONGEST SPAN, (ALL TABLES).

WINDOWS MAY BE INTERMIXED COMBINATIONS OF CASEMENT, AWNING, PICTURE, IN-SASH AND DIRECT SET GEOMETRIC OR RADIUS AND DOUBLE HUNG, (ALL TABLES).

ALLOWABLE PRESSURES ON THE MULLED ASSEMBLY SHALL BE CONTROLLED BY THE LESSER OF MULLION OR THE INDIVIDUAL WINDOW UNIT.

* Use this table for intermediate 2-way mullions.

* For anchor clip attachment to substrates, see notes on sheets 4 & 5 on this report.



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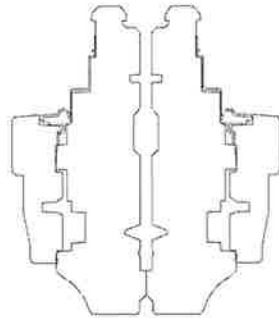
Product Grouping:

1. Architect Clad HurricaneShield (Windzone 3 only), Architect, Designer and Proline Clad combination assemblies with Joining mullion in intermixed configurations of casement, Awning, Picture, In-sash or Direct set Geometric or Radius.
2. Window type grouping: operable vs. fixed window load distribution was considered in the determination of the theoretical stress and deflection analysis due to mullion bending load and how concentrated loads produce higher bending stresses and deflections.

Section Property Grouping:

1. The casement type frame jambs combined produce the lowest overall section properties as joined section properties. The wood jambs joined mechanically with anchors act as one member.
2. The illustration below shows the individual component section properties for the casement window.
3. The intermixed combinations of Casement, Awning, Picture, In-Sash, and Direct Set geometric or Radius were examined, the combined section properties calculated using AutoCad (independent of material stiffnesses), and based on comparison of these section properties the combination of units that produce the weakest section determined. This section, combined was used in the analysis.

JOINED COMPOSITE SECTION PROPERTIES



Casement jambs conjoined used in analysis is shown left.
Only the wood jamb, wood side stop combined together is used in the calculation of section properties.
The wood covers are not considered.

The combined section properties for the above, considering the material differences were found to be the following.

I =	8.200	in ⁴	(In terms of wood)
S =	4.083	in ³	
A =	8.684	in ²	

The individual wood jamb, wood side stop section properties used to determine the combined section properties are given on the following page.



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Joining Mull, 2-Way (VT or HZ)

Wood Side Stop (VT or HZ)



----- REGIONS -----
Area: 0.9721
Perimeter: 5.6195
Bounding box: X: -0.3265 -- 0.3715
Y: -1.0161 -- 0.9037
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2751
Y: 0.0293
Product of inertia: XY: 0.0319
Radii of gyration: X: 0.5320
Y: 0.1735
Principal moments and X-Y directions about centroid:
I: 0.0252 along [0.1265 0.9920]
J: 0.2792 along [-0.9920 0.1265]

wood Jamb (VT or HZ)



----- REGIONS -----
Area: 3.3695
Perimeter: 11.4918
Bounding box: X: -0.5527 -- 0.6973
Y: -1.8257 -- 2.1593
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 3.6249
Y: 0.2682
Product of inertia: XY: -0.0773
Radii of gyration: X: 1.0654
Y: 0.2821
Principal moments and X-Y directions about centroid:
I: 0.2665 along [0.0217 -0.9998]
J: 3.8266 along [0.9998 0.0217]



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SECTION PROPERTY COMPARISON CHART (VT. & HZ.)

Minimum of Compared Section Properties				
Brand	Product	Section	Exterior	MOI Wood
	Window Mullion Chart	All	Clad	4.1239
Architect Series	Clad Frame (Direct Set)	All	Clad	4.3409
Architect Series	Casement	All	Wood	5.8819
Architect Series	Model 4 DH	Jamb	Wood	10.9364
Architect Series	Model 4 DH	Head	Wood	6.9324
Architect Series	Model 3 DH	Jamb	Wood	7.7429
Architect Series	Model 3 DH	Head	Wood	5.1873
Architect Series	Casement	All	Clad	4.1239
Architect Series	Model 3 DH	Jamb	Clad	4.7736
Architect Series	Model 3 DH	Head	Clad	4.6296
Architect Series	Model 4 DH	Jamb	Clad	6.7893
Architect Series	Model 4 DH	Head	Clad	5.1533
Designer Series	Casement	All	Clad	4.1239
Designer Series	Double Hung	Jamb	Clad	5.0565
Designer Series	Double Hung	Head	Clad	4.9788
Proline	Casement	All	Clad	4.1239
Proline	Double Hung	Jamb	Clad	4.9908
Proline	Double Hung	Head	Clad	4.9565

MOE Wood
 (x10⁶ psi)

Discussion:

- 1). Frame Section Properties above provided by Pella Corporation.
- 2). Ixx is moment of Inertia about axis of bending of the mulled configuration, Ymax is the maximum distance from "X" axis to outer fibers of the section in the "y" direction. Zx is section modulus = Ixx / y max. A is area.
- 3). The configuration with the lowest I and Z will envelope all other configurations. A is relatively the same for all, except the DS radius, therefore will not be deciding factor.
- 4). Based on the above comparison of sections the casement jamb is the worst case.
- 5). Comparison above based on section properties of the combined jamb sections only.

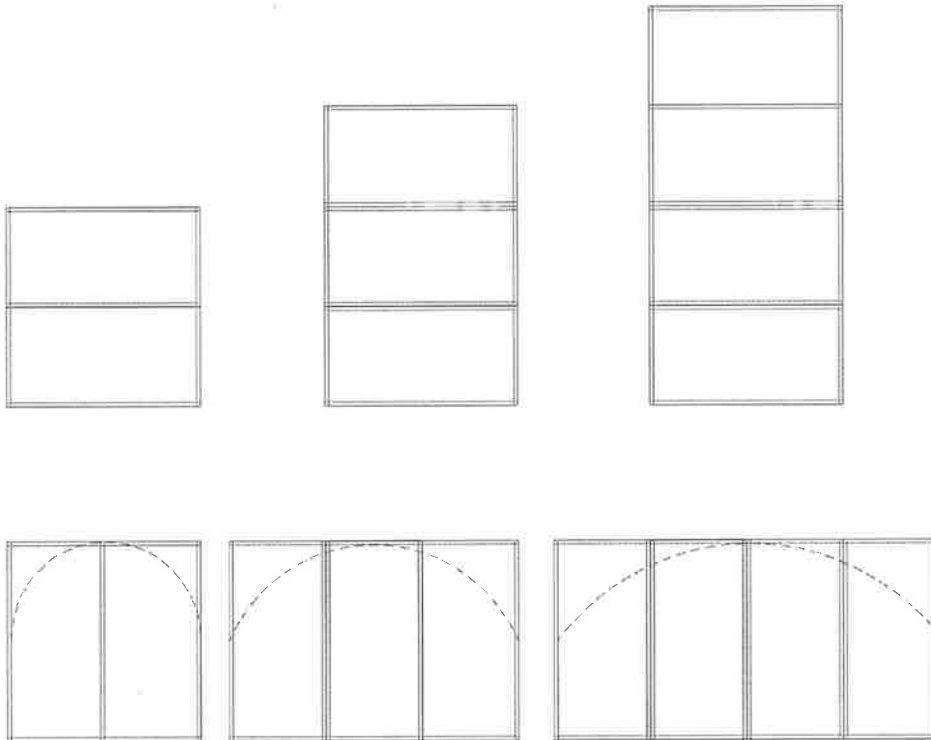


PTC PRODUCT DESIGN GROUP, LLC

P.O. Box 520775
Longwood, Florida 32752

Client: Pella
Project #: 415-0309
Report #: 0507-4
Prepared by: RJA
Date: 5/26/2015
Page 11 of 11

THE FOLLOWING CONFIGURATIONS ARE EXAMPLES IN THIS REPORT
2-Way



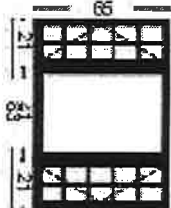
Line # Location:

20 Dining Room

Attributes

ProLine, 3-Wide Casement, 83 X 65, White

Qty 1



PK # 811

Viewed From Exterior

1: Non-Standard Size Non-Standard Size Left Casement

Frame Size: 21 X 65

General Information: Clad, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, White

Interior Color / Finish: Prefinished White Interior

Glass: Insulated Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Fold-Away Crank, Champagne, No Limited Opening Hardware

Screen: Full Screen, Champagne, InView™

Performance Information: U-Factor 0.28, SHGC 0.20, VLT 0.48, CPD PEL-N-14-00371-00001, Performance Class R, PG 45, Calculated Positive DP Rating 45, Calculated Negative DP Rating 45, FPAS FL11504

Grille: RMB, No Custom Grille, 3/4", Traditional (2W5H), Prefinished White, White, Shipped In Unit

Vertical Mull 1: Factory Mull, Standard Joining Mullion, Mull Design Pressure- 20

2: Non-Standard Size Non-Standard Size Fixed Sash Set

Frame Size: 41 X 65

General Information: Clad, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, White

Interior Color / Finish: Prefinished White Interior

Glass: Insulated Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude

Performance Information: U-Factor 0.27, SHGC 0.23, VLT 0.53, CPD PEL-N-22-00520-00001, Performance Class R, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, FPAS FL11012

Grille: No Grille

Vertical Mull 2: Factory Mull, Standard Joining Mullion, Mull Design Pressure- 20

3: Non-Standard Size Non-Standard Size Right Casement

Frame Size: 21 X 65

General Information: Clad, 5", 3 11/16"

Exterior Color / Finish: Standard Enduraclad, White

Interior Color / Finish: Prefinished White Interior

Glass: Insulated Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude

Hardware Options: Fold-Away Crank, Champagne, No Limited Opening Hardware

Screen: Full Screen, Champagne, InView™

Performance Information: U-Factor 0.28, SHGC 0.20, VLT 0.48, CPD PEL-N-14-00371-00001, Performance Class R, PG 45, Calculated Positive DP Rating 45, Calculated Negative DP Rating 45, FPAS FL11504

Grille: RMB, No Custom Grille, 3/4", Traditional (2W5H), Prefinished White, White, Shipped In Unit

Vertical Mull 1: Factory Mull, Standard Joining Mullion, Mull Design Pressure- 20

Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 3 11/16", 5", Factory Applied, Pella Recommended Clearance, Perimeter Length = 296"

casement: 11504.4
 Fixed: 11012.2
 +1-50
 Mull: 13815.1

Rough Opening: 83 - 3/4" X 65 - 3/4"

INSTARMCOR900040 - Stucco Cut-out	Qty 1
INSTARMCOR010003 - 3-Wide Wood Window Drywall Return	Qty 1
INSTARMCOR900041 - Stucco Repair, Lineal Ft.	Qty 25

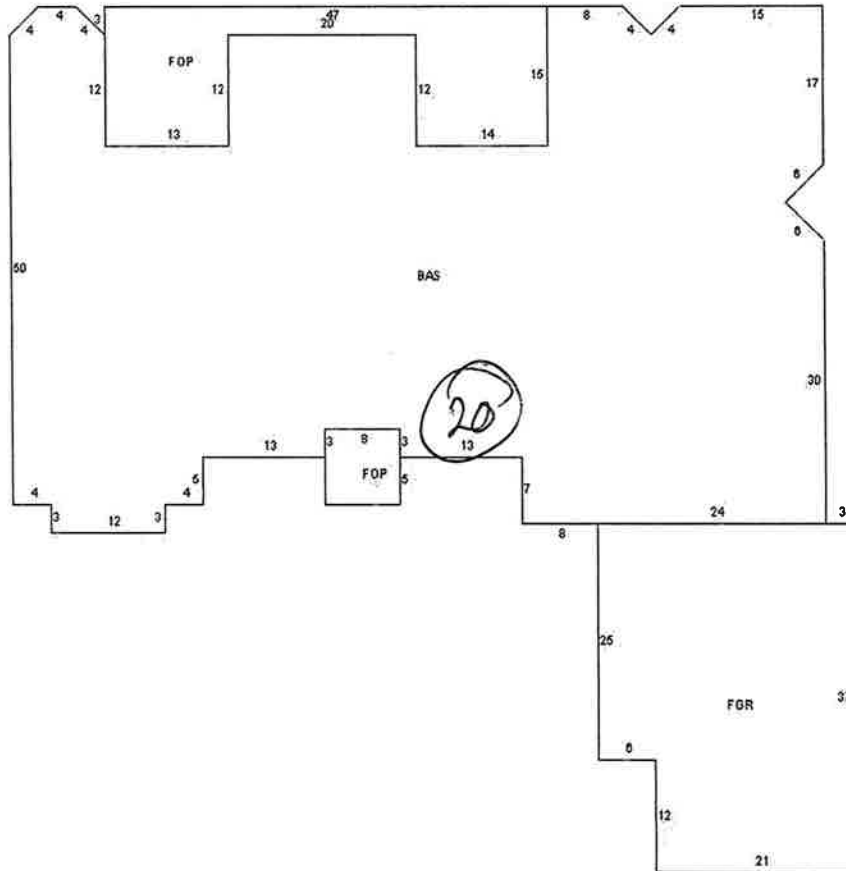
For more information regarding the finishing, maintenance, service and warranty of all Pella® products, visit the Pella® website at www.pella.com



Building Details - 2542 Oak Island Pointe - Building #1



Courtesy Rick Singh, Orange County Property Appraiser



Sub Area	Sqft.	Value
BAS - Base Area	3965	\$383,812
FGR - Fin Garage	927	\$44,915
FOP - F/Opn Prch	529	\$12,778

Model Code:	01 - Single Fam Residence
Type Code:	0103 - Single Fam Class III
Building Value:	\$370,423
Estimated New Cost:	\$441,505
Actual Year Built:	1992
Beds:	3
Baths:	3.5
Floors:	1
Gross Area:	5421 sqft
Living Area:	3965 sqft



Contract - Detailed

Pella Window and Door Showroom of Longwood
 350 West State Road 434
 Longwood, FL 32750
Phone: (407) 831-0600 **Fax:** (407) 937-3282

Sales Rep Name: Piper, Benjamin
Sales Rep Phone: 386-316-5384
Sales Rep Fax:
Sales Rep E-Mail: piperbj@Pella.com

Customer Information	Project/Delivery Address	Order Information
ANDREW SUMMERS 2542 Oak Island Pointe BELLE ISLE, FL 32809-3586 Primary Phone: (321) 9486093 Mobile Phone: Fax Number: E-Mail: Contact Name: Great Plains #: 1003559217 Customer Number: 1007754099 Customer Account: 1003559217	SUMMERS,ANDREW,1747461 2542 Oak Island Pointe Lot # Belle Isle, FL 32809-3586 County: Owner Name: ANDREW SUMMERS Owner Phone: (321) 9486093	Quote Name: SUMMERS,ANDREW,1747461 Order Number: 7216BPYUG Quote Number: 7997352 Order Type: Installed Sales Wall Depth: Payment Terms: Deposit/Paid on Completion Tax Code: CAP IMP 2 Cust Delivery Date: None Quoted Date: 6/25/2016 Contracted Date: 7/15/2016 Booked Date: Customer PO #:

Line #	Location:	Attributes
--------	-----------	------------

10 None Assigned

ADPPRRMCOR020001 - Delivery & Disposal

Qty

1

Project Checklist has been reviewed

Andrew G. Summers
Customer Name (Please print)

Andrew G. Summers
Customer Signature

7/15/16
Date

Credit Card Approval Signature

Ben Piper
Pella Sales Rep Name (Please print)

[Signature]
Pella Sales Rep Signature

7-15-16
Date

Order Totals	
Taxable Subtotal	\$3,394.92
Sales Tax @ 0%	\$0.00
Non-taxable Subtotal	\$1,797.08
Total	\$5,192.00
Deposit Received	\$2,596.00
Amount Due	\$2,596.00



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**CONSTRUCTION INDUSTRY LICENSING BOARD
2601 BLAIR STONE ROAD
TALLAHASSEE FL 32399-0783**


(850) 487-1395

**ROWLAND, JAMES SAMUEL
PELLA WINDOWS AND DOORS
8326 CREEDMOOR LANE
NEW PORT RICHEY FL 34654**

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbecue restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

CBC046712 ISSUED: 07/06/2016

**CERTIFIED BUILDING CONTRACTOR
ROWLAND, JAMES SAMUEL
PELLA WINDOWS AND DOORS**

**IS CERTIFIED under the provisions of Ch. 489 FS.
Expiration date: AUG 31, 2018 L1607060000783**

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD**

LICENSE NUMBER:	
CBC046712	

**The BUILDING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2018**



**ROWLAND, JAMES SAMUEL
PELLA WINDOWS AND DOORS
8326 CREEDMOOR LANE
NEW PORT RICHEY FL 34654**



ISSUED: 07/06/2016

DISPLAY AS REQUIRED BY LAW

SEQ # L1607060000783



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

(850) 487-1395

**ROWLAND, JAMES SAMUEL
PELLA WINDOWS AND DOORS
2165 BREAKS LANE
CHULUOTA FL 32766**

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridallicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION**

CBC046712 ISSUED: 06/01/2014

**CERTIFIED BUILDING CONTRACTOR
ROWLAND, JAMES SAMUEL
PELLA WINDOWS AND DOORS**

IS CERTIFIED under the provisions of Ch. 489 FS.
Expiration date : AUG 31, 2016 L1408010002361

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD**



LICENSE NUMBER

CBC046712

The BUILDING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2016

**ROWLAND, JAMES SAMUEL
PELLA WINDOWS AND DOORS
2165 BREAKS LANE
CHULUOTA FL 32766**





CERTIFICATE OF LIABILITY INSURANCE

9/1/2016

DATE (MM/DD/YYYY)
8/25/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS:		FAX (A/C, No):
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED 1381272 PWD - ORLANDO, INC. DBA PELLA WINDOWS AND DOORS INC. 350 STATE ROAD 434 WEST LONGWOOD, FL 32750-5173	INSURER A : Steadfast Insurance Company		26387
	INSURER B : Old Republic Insurance Company		24147
	INSURER C :		
	INSURER D :		
	INSURER E :		
INSURER F :			

COVERAGES **CERTIFICATE NUMBER:** 12959679 **REVISION NUMBER:** XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WOOD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC <input checked="" type="checkbox"/> OTHER: SIR APPLIES PER POLICY TERMS & CONDITIONS	N	N	MWZY-305421	9/1/2015	9/1/2016	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ Excluded
							MED EXP (Any one person)	\$ Excluded
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 4,000,000
							PRODUCTS - COMP/OP AGG	\$ 7,000,000
								\$
S	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	N	N	MWTB-305420	9/1/2015	9/1/2016	COMBINED SINGLE LIMIT (Ea accident)	\$ 2,000,000
							BODILY INJURY (Per person)	\$ XXXXXXXX
							BODILY INJURY (Per accident)	\$ XXXXXXXX
							PROPERTY DAMAGE (Per accident)	\$ XXXXXXXX
								\$ XXXXXXXX
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	N	N	IPR346040107	9/1/2015	9/1/2016	EACH OCCURRENCE	\$ 1,000,000
							AGGREGATE	\$ 1,000,000
								\$ XXXXXXXX
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N	NOT APPLICABLE			PER STATUTE	
			N/A				OTHER	
							E.L. EACH ACCIDENT	\$ XXXXXXXX
							E.L. DISEASE - EA EMPLOYEE	\$ XXXXXXXX
							E.L. DISEASE - POLICY LIMIT	\$ XXXXXXXX

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER 12959679 CITY OF BELLE ISLE 1600 NELA AVENUE ORLANDO, FL 32809	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
--	--

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
08/24/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Holmes Murphy & Assoc - WDM PO Box 9207 Des Moines, IA 50306-9207	1-800-247-7756	CONTACT NAME: PHONE (A/C, No. Ext): E-MAIL ADDRESS:	FAX (A/C, No):
INSURED PWD-Orlando, Inc. dba Pella Windows and Doors 350 West State Road 434 Longwood, FL 32750		INSURER(S) AFFORDING COVERAGE	
		INSURER A: SENTRY CAS CO	NAIC # 28460
		INSURER B:	
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

COVERAGES CERTIFICATE NUMBER: 44838142 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDITIONAL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Per occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COM/OP AGG \$ \$
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS					COMBINED SINGLE LIMIT (Per accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N N/A	9003379	09/01/15	09/01/16	X WC STATUTORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER City of Belle Isle 600 Nela Ave Orlando, FL 32809 USA	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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2015 - 2016 8/14/15

City of Longwood
175 W. Warren Avenue, Longwood, FL 32750

LOCAL BUSINESS TAX

LOCATION: 350 W SR 434

For the Occupation:

RETAIL MERCHANTS/1 TO 5 EMP

PELLA WINDOWS AND DOORS
350 W SR 434
LONGWOOD FL 32750

LIND MIKE

YEAR: 10/15-09/16

DIRECTOR OF FINANCE

RECEIPT MUST BE CONSPICUOUSLY DISPLAYED AT BUSINESS LOCATION.



Receipt # 16-00014399

STATE #	
CITY TAX	\$ 70.00
ADMINISTRATIVE FEE	\$ 10.00
TRANSFER FEE	\$.00
PENALTY	% \$.00
COUNTY TAX	\$ 25.00
TOTAL \$	105.00

PELLA WINDOWS AND DOORS
350 W SR 434
LONGWOOD FL 32750