



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

NOTICE OF ACCEPTANCE (NOA)

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

www.miamidade.gov/economy

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "350 HurricaneShield® 4½" Vinyl" White PVC Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. PELL0029, titled "Series 350 4-½" Vinyl Single Hung Window - Impact", sheets 1 through 14 of 14, dated 01/04/13, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Manuel Perez, P.E.



Handwritten signature and date: MP 6/27/13

NOA No. 13-0115.02
Expiration Date: July 04, 2018
Approval Date: July 04, 2013
Page 1

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **PELL0029**, titled "Series 350 4-½" Vinyl Single Hung Window – Impact", sheets 1 through 14 of 14, dated 01/04/13, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.

B. TESTS

1. Test reports on: 1.) Air Infiltration Test, per FBC, TAS 202–94
2.) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
3.) Water Resistance Test, per FBC, TAS 202–94
4.) Large Missile Impact Test per FBC, TAS 201–94
5.) Cyclic Wind Pressure Loading per FBC, TAS 203–94

along with marked-up drawings and installation diagram of a series 350 vinyl single hung window, prepared by Element Materials Technology, Des Moines, Test Report No. **ESP010527P. Dade.REV3**, dated 09/29/12, and revised on 12/29/12, signed and sealed by Jason R. Steen, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC–2010**, dated 09/17/12 and 12/26/12, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.
2. **Glazing complies with ASTM E1300–04**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **12–1017.02** issued to Quanex Building Products, Inc. for "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 02/07/13, expiring on 12/26/16.

F. STATEMENTS

1. Statement letter of no financial interest, independence, conformance and complying with **FBC–2010**, dated 01/03/13, issued by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.
2. Proposal No. **12–0115** issued by Product Control, dated March 6, 2012, signed by Manuel Perez, P.E.

G. OTHERS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0115.02

Expiration Date: July 04, 2018
Approval Date: July 04, 2013

PELLA CORPORATION

SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE DESIGN PRESSURE(S) STATED HEREIN AS FOLLOWS.
 - 1.1. IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODE - SECTIONS 1609.1.2, 1626, 1715.5.2, 1715.5.4 AND 2411.3 AND TO THE 2010 FLORIDA RESIDENTIAL CODE - SECTIONS R301.2.1.2, R612.6, R612.10, R4403.16 AND R4410.2.3.
 - 1.2. PERFORMANCE STANDARDS:
 - 1.2.1. TAS 201-94, LARGE MISSILE IMPACT
 - 1.2.2. TAS-202-94
 - 1.2.3. TAS 203-94
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. ESP010157P.DADE, DATED SEPTEMBER 29, 2012 (REVISED 12/29/12) AND ASSOCIATED LABORATORY DRAWINGS BY ELEMENT MATERIALS TECHNOLOGY, DES MOINES, IA. TESTING WAS CONDUCTED TO TAS 201-94, TAS 202-94 AND TAS 203-94.
3. THIS PRODUCT EVALUATION DOCUMENT IS FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
4. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY, 2X FRAMING AND METAL FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
5. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
6. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THE FOLLOWING IMPACT PROTECTIVE REQUIREMENTS ARE MET:
 - 6.1. HIGH VELOCITY HURRICANE ZONE (HVHZ):
 - 6.1.1. LARGE MISSILE IMPACT REQUIREMENTS AT HEIGHTS UP TO 30 FEET ABOVE GRADE:
 - 6.1.1.1. THESE WINDOWS MEET LARGE MISSILE IMPACT REQUIREMENTS OF THE 2010 FBC, SECTION 2411.3.3.7 AND DO NOT REQUIRE USE OF AN APPROVED HVHZ IMPACT PROTECTIVE SYSTEM. SEE NOTE 3 ON SHEET 8 OF 14.
 - 6.1.2. SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS EXCEEDING 30 FEET ABOVE GRADE:
 - 6.1.2.1. THESE WINDOWS MEET SMALL MISSILE IMPACT REQUIREMENTS OF THE 2010 FBC, SECTION 2411.3.3.7 WHEN GLAZED ON THE EXTERIOR USING SAFETY GLAZING AND DO NOT REQUIRE USE OF AN APPROVED HVHZ IMPACT PROTECTIVE SYSTEM. SEE NOTE 4 ON SHEET 8 OF 14.
 - 6.2. WINDBORNE DEBRIS AREAS OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (NON-HVHZ):
 - 6.2.1. WHEN INSTALLED IN LOCATIONS WHERE NON-HVHZ WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THIS PRODUCT DOES NOT REQUIRE USE OF AN APPROVED IMPACT PROTECTIVE SYSTEM.
7. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. MATERIALS:
 - 8.1. WINDOW FRAME MATERIAL: VINYL (PVC).
 - 8.2. LAMINATED GLAZING INTERLAYERS
 - 8.2.1. DUPONT BUTACITE INTERLAYER MATERIAL.
9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-09a.
10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING (AS APPLICABLE):
 - 10.1. X: OPERABLE LITE, SASH OR PANEL
 - 10.2. O: FIXED LITE, SASH OR PANEL
11. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

INSTALLATION NOTES:

1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
2. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
 - 2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
 - 2.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
3. SEE SHEETS 5, 6 and 7 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
4. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
5. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH THE TABLES ON SHEET 3. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE TABLES ON SHEET 3 ARE ACCEPTABLE.
 - 5.1. SEE ADDITIONAL NOTES ON SHEET 3.
6. MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
 - 6.1. FOR BLOCK, FIN & FLANGE FRAME INSTALLATIONS, SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR.
7. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

SEE SHEET 3 FOR DESIGN PRESSURES.

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13	COMPONENT SECTIONS
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PROJECT # 411-1201.10

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

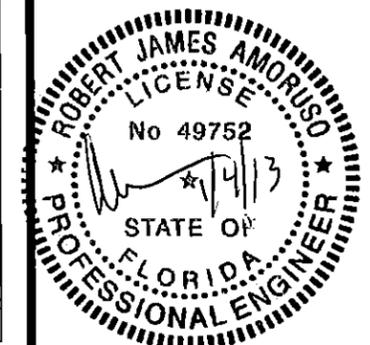
TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

DRAWN BY: RJA
SCALE: N.T.S.
DATE: 1/4/13
DRAWING NO: PELL0029
SHEET: 1 OF 14



Approved as complying with the Florida Building Code
Date July 4, 2013
NOA# 13-10115.02
Miami Dade Product Control
By Manuel Perez

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



INSTALLATION ANCHOR SCHEDULE							
INSTALLATION TYPE	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	EMBEDMENT (IN)	EDGE DISTANCE (IN)	ANCHOR CAPACITIES BASED ON
INSTALLATION CLIP OR THRU-FRAME	FLAT OR HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1-1/2"	1-1/8"	MIN. 2000 PSI CONCRETE
				ELCO ULTRACONS	1-3/8"	1"	MIN. 2500 PSI CONCRETE
				ELCO CRETE-FLEX SS4	2"	2"	MIN. 2500 PSI CONCRETE
				HILTI KWIK-CON II	1-3/4"	1-1/8"	MIN. 2000 PSI CONCRETE
			MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1"	2"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
				ELCO ULTRACONS	1-1/4"	1"	
				ELCO CRETE-FLEX SS4	1-1/4"	2"	
				HILTI KWIK-CON II	1"	1-1/8"	
INSTALLATION CLIP, INSTALLATION CLIP - BENT OR THRU-FRAME	FLAT OR PAN HEAD	NO. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2)	1-3/8"	3/4" LATERAL 1/2" WITHDRAWAL (3)	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55.
				ASME B18.6.4 (TAPPING SCREW) (2)			
			20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS	ASME B18.6.4 (TAPPING SCREW)	FULLY PENETRATE SUBSTRATE WITH	5/16"	ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER
			1/8" MIN. THK. A-36 STEEL OR BETTER	ASME B18.6.4 (TAPPING SCREW)	3 THREADS PROTRUDING INTERNALLY	5/16"	ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER
			1/8" MIN. THK. 6063-T5 ALUMINUM OR BETTER	ASME B18.6.4 (TAPPING SCREW)		3/8"	6063-T5 ALUMINUM OR BETTER

NOTES:

1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.

2) FOR WOOD AND TAPPING SCREWS INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 7/64" PILOT HOLE FOR LATERAL APPLICATIONS AND 3/32" FOR WITHDRAWAL APPLICATIONS. SEE NOTE 3 BELOW FOR FURTHER DEFINITION.

3) LATERAL IS APPLICABLE TO INSTALLATION CLIP AND THRU-FRAME; WITHDRAWAL IS APPLICABLE TO INSTALLATION CLIP - BENT.

NOTES:

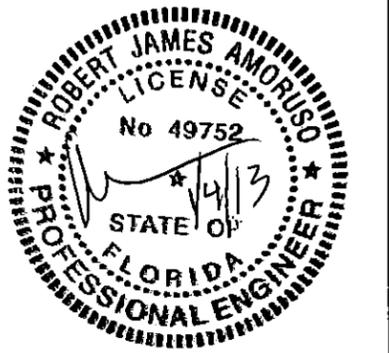
INSTALLATION ANCHOR SCHEDULE

1. THIS TABLE LISTS APPROVED ANCHOR SPECIFICATIONS BASED ON THE INSTALLATION TYPE AND SUBSTRATE.

PROJECT # 411-1201.10	DATE	BY
	DESCRIPTION	REV
PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219	DATE: 1/4/13	DRAWING NO: PELL0029
	DRAWN BY: RJA	SCALE: N.T.S.
TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT ANCHOR SCHEDULE	PREPARED BY: RJA	REV: -
PREPARED BY: RJA	SCALE: N.T.S.	SHEET: 2 OF 14
FTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 Phone: 321.880.1788 Fax: 321.880.1786 Email: info@pdc-corp.com		

Approved as complying with the Florida Building Code
 Date: July 4, 2013
 NOA# 13-10115-02
 Miami Dade Product Control
 By: *Manuel Perez*

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



SERIES 350 SINGLE HUNG WINDOW INSTALLATION REQUIREMENTS

Window Size (W x H) (in)	Daylight Opening (D.L.O.)		Design Pressure (PSF)	Substrate	Installation Type	End Spacing All corners	HEAD AND SILL		JAMBS ABOVE MEETING RAIL		JAMBS BELOW MEETING RAIL	
	Upper Sash (Fixed) (W x H) (in)	Lower Sash (Operable) (W x H) (in)					Quantity of Anchors at Head & Sill	Center to Center Spacing Head & Sill	Quantity of Anchors at Jamb Above MR *	Center to Center Spacing Jamb Above MR *	Quantity of Anchors at Jamb Below MR *	Center to Center Spacing Jamb Below MR *
52-1/4 x 77-1/4	45-13/16 x 39-11/16	45-13/16 x 29-3/16	+60/-65	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	4	13.42"	5	8.625"	4	7.583"
52-1/4 x 75	45-13/16 x 39-11/16	45-13/16 x 26-15/16	+60/-65	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	4	13.42"	4	11.0"	3	11.0"
52-1/4 x 64	45-13/16 x 27-3/16	45-13/16 x 28-7/16	+60/-65	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	4	13.42"	3	11.0"	3	11.0"
44 x 78	37-9/16 x 34-3/16	37-9/16 x 35-7/16	+60/-65	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	3	16"	4	9.67"	4	9.67"
44 x 64	37-9/16 x 27-3/16	37-9/16 x 28-7/16	+60/-65	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	3	16"	3	11.0"	3	11.0"
41 x 84	34-9/16 x 37-3/16	34-9/16 x 38-7/16	+60/-65	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	3	14.5"	4	10.7"	4	10.7"
41 x 64	34-9/16 x 27-3/16	34-9/16 x 28-7/16	+60/-65	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	3	14.5"	3	11.0"	3	11.0"
36 x 71-1/2	29-9/16 x 30-15/16	29-9/16 x 32-3/16	+80/-85	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	3	12"	4	8.6"	4	8.6"
36 x 64	29-9/16 x 27-3/16	29-9/16 x 28-7/16	+80/-85	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	3	12"	3	11.0"	3	11.0"
24 x 71-1/2	17-9/16 x 30-15/16	17-9/16 x 32-3/16	+80/-85	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	2	12"	3	12.9"	3	12.9"
24 x 64	17-9/16 x 27-3/16	17-9/16 x 28-7/16	+80/-85	Wood/Concrete /CMU/Metal **	Clip or Thru- Frame	6"	2	12"	3	11.0"	3	11.0"

* FIRST ANCHOR ADJACENT TO MEETING RAIL LOCATED 4" ABOVE AND BELOW MEETING RAIL. END ANCHOR ON JAMB AT HEAD AND SILL LOCATED 6" FROM END. CENTER-TO-CENTER SPACING AS SHOWN.

** METAL SUBSTRATES INCLUDE THE FOLLOWING:

- (a) 20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS, ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER
- (b) 1/8" MIN. THK. ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER
- (c) 0.060" MIN. THK. 6063-T5 ALUMINUM OR BETTER

NOTES:

SERIES 350 SINGLE HUNG WINDOW INSTALLATION REQUIREMENTS

1. THIS TABLE LISTS THE FOLLOWING INFORMATION.

- 1.1. DESIGN PRESSURE (PSF).
- 1.2. END DISTANCE (ED) OF ANCHORS AT FRAME ENDS AS DIMENSIONED ON ELEVATION DRAWINGS.
- 1.3. MAXIMUM O.C. (ON CENTER) SPACING FOR ANCHORS BETWEEN THE FRAME END ANCHORS DIMENSIONED ON ELEVATION DRAWINGS.
- 1.4. QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS.

- 1.5. MAXIMUM WINDOW SIZES (W x H) TESTED WITH A SELECTION OF DOWNSIZED WINDOW SIZES (W x H) AVAILABLE (SEE NOTE 3).
- 2. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
- 3. FOR WINDOW SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.

PROJECT # 411-1201.10

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT
INSTALLATION REQUIREMENTS AND DP CHART

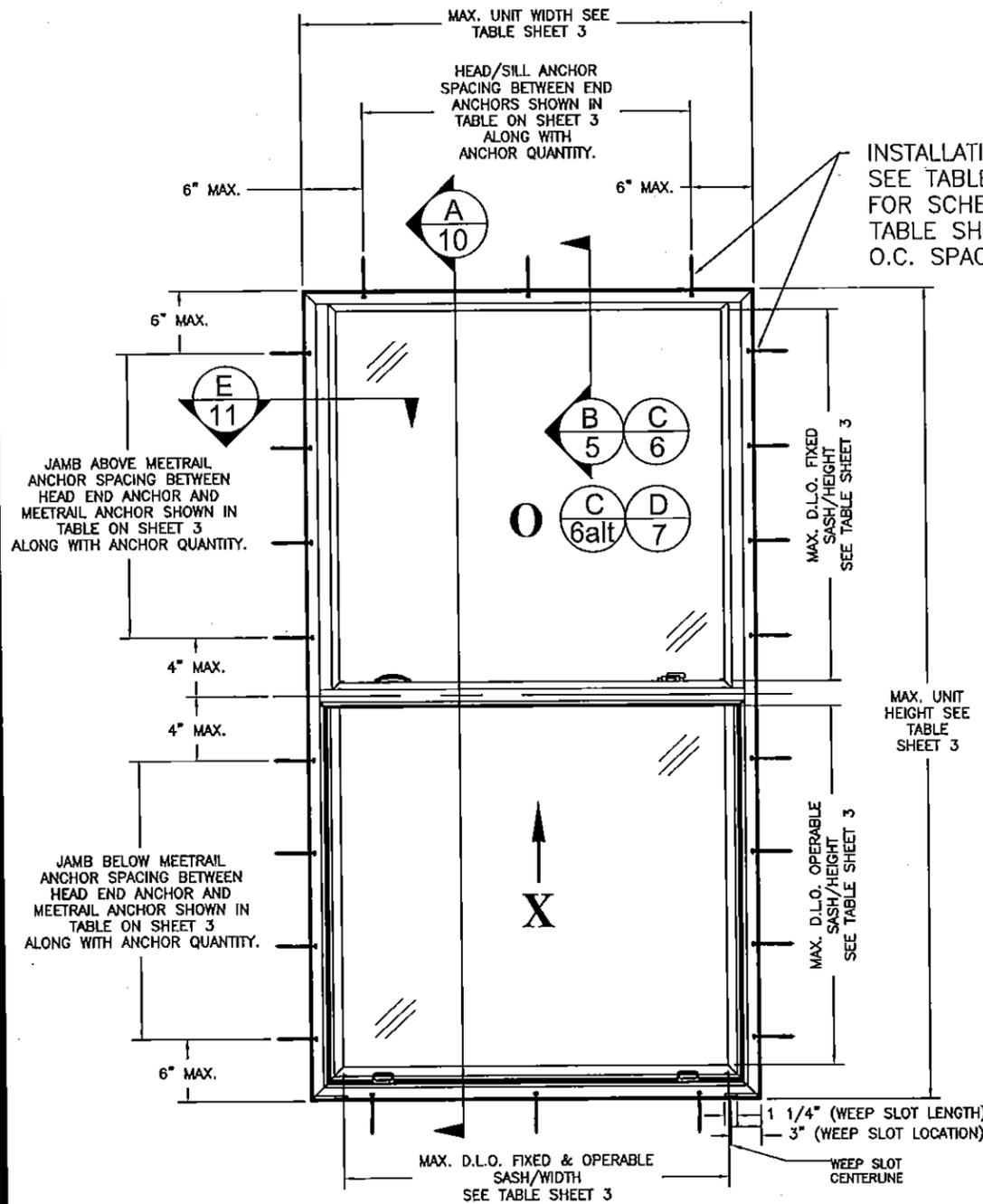
PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 1/4/13
DRAWING NO: PELL0029
SHEET: 3 OF 14

PTC PRODUCT DESIGN GROUP, LLC Phone: 321.880.1788
LONGWOOD, FL 32750 Fax: 321.880.1789
PELLA, IA 50219 Email: hrd@pc-corp.com

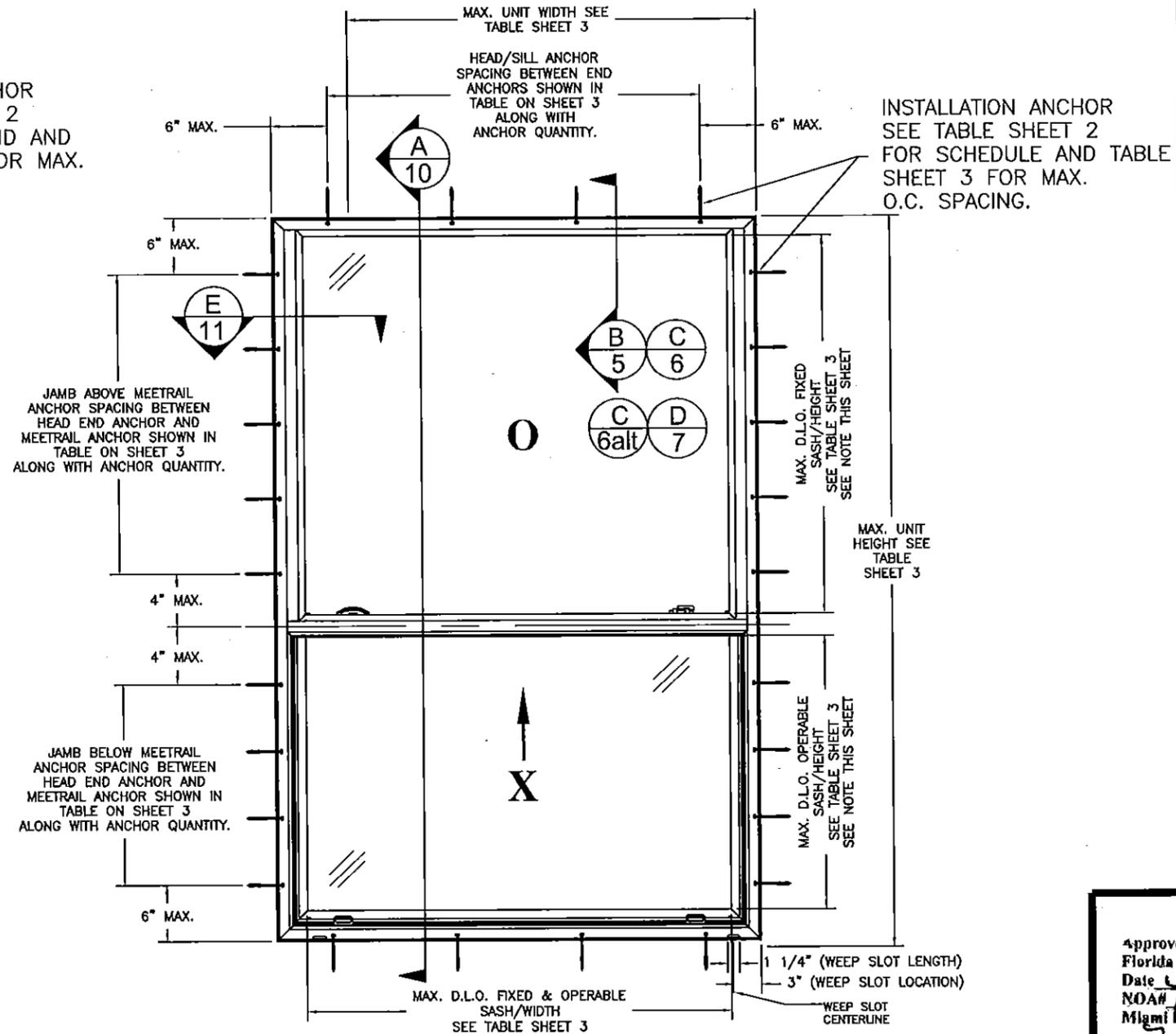
Approved as complying with the
Florida Building Code
Date: July 4, 2013
NOA# 134015.02
Miami Dade Product Control
By: *Robert J. Amoroso*

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





SERIES 350 VINYL SINGLE HUNG WINDOW
 EXTERIOR VIEW - EQUAL LITE WINDOW (44" X 78" SIZE SHOWN)
 BLOCK FRAME SHOWN, FLANGE AND FIN FRAMES ALSO APPROVED



SERIES 350 VINYL SINGLE HUNG WINDOW
 EXTERIOR VIEW - CUSTOM SPLIT WINDOW (52-1/4" X 77-1/4" SIZE SHOWN)
 BLOCK FRAME SHOWN, FLANGE AND FIN FRAMES ALSO APPROVED

CUSTOM SPLIT WINDOW - DAY LIGHT OPENING NOTE
 CUSTOM SPLITS ARE ALLOWED WHERE LOWER SASH D.L.O. IS SMALLER THAN UPPER SASH D.L.O., OR UPPER SASH D.L.O. IS SMALLER THAN LOWER SASH D.L.O. BUT MAY NOT EXCEED MAXIMUM SASH D.L.O. IN TABLE ON SHEET 3.

PROJECT # 411-1201.10

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219
 TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT ELEVATION & ANCHORING LAYOUT

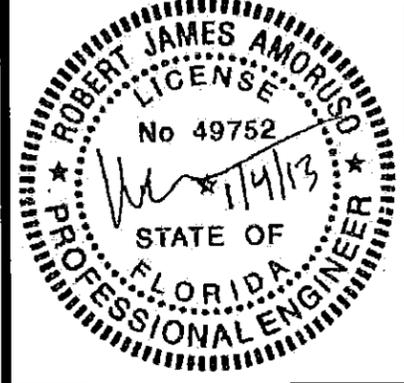
PREPARED BY: RJA
 SCALE: N.T.S.
 DATE: 1/4/13
 DRAWING NO: PELLO029
 SHEET: 4 OF 14

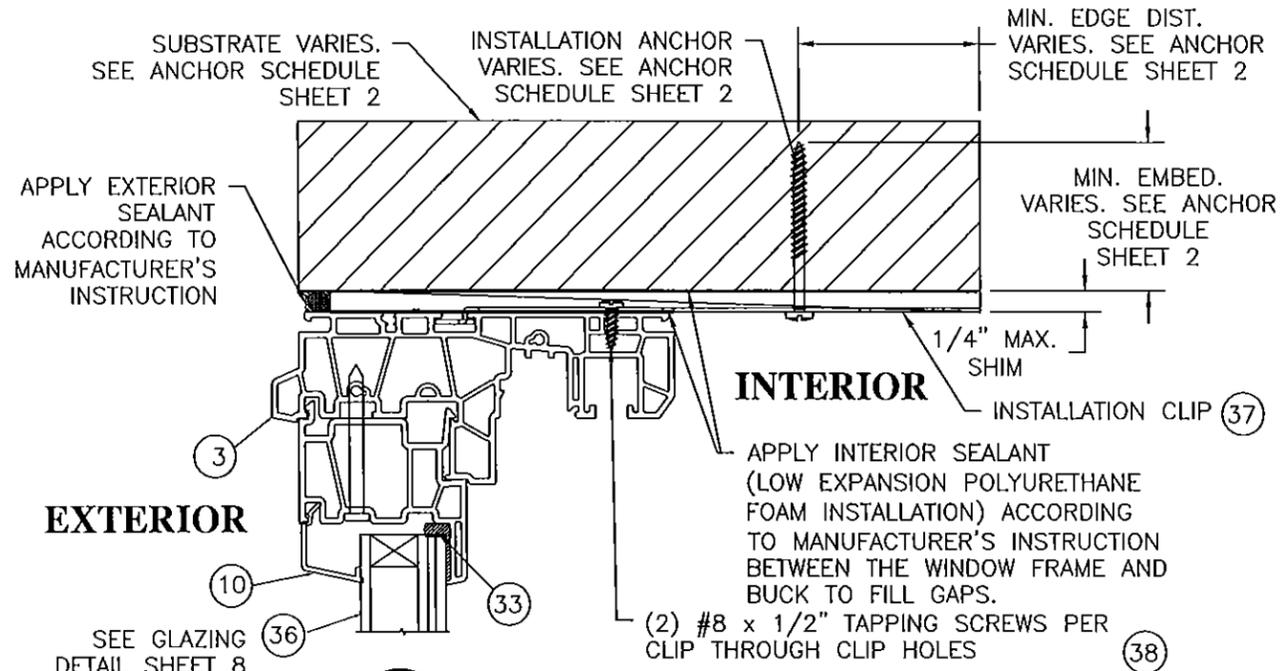


PTC PRODUCT DESIGN GROUP, LLC
 PO BOX 520775
 LONGWOOD, FLORIDA 32752
 Phone: 321.680.1788
 Fax: 321.680.1789
 Email: info@pdc-corp.com

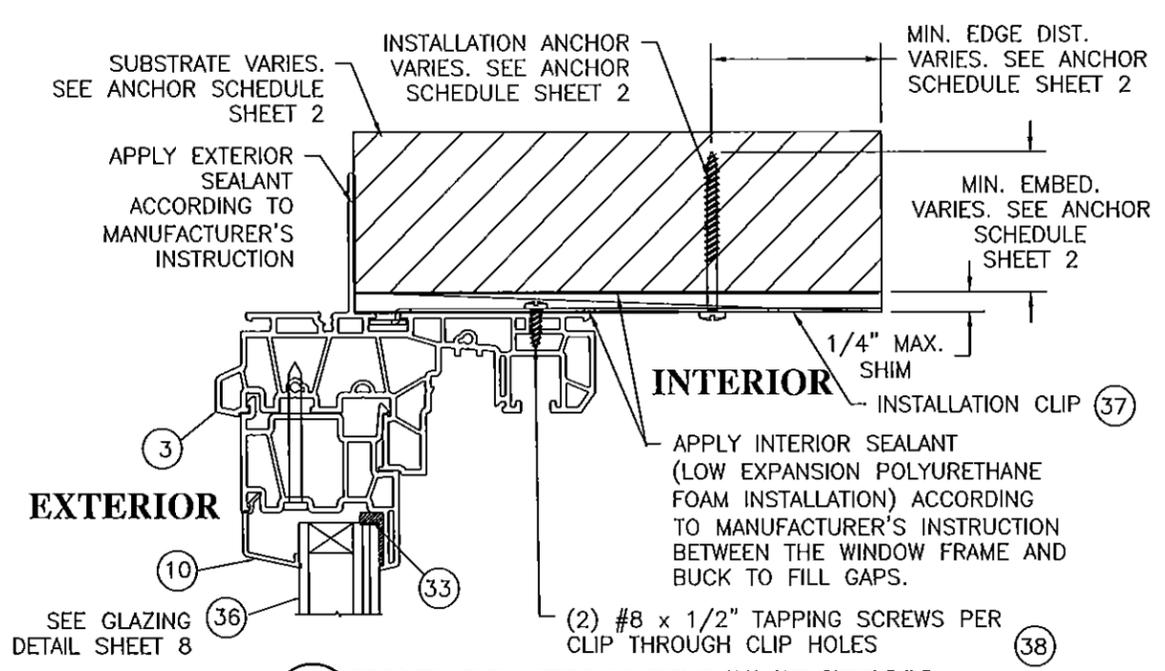
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 Miami Dade Product Control
 By: *Maureen B...*

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

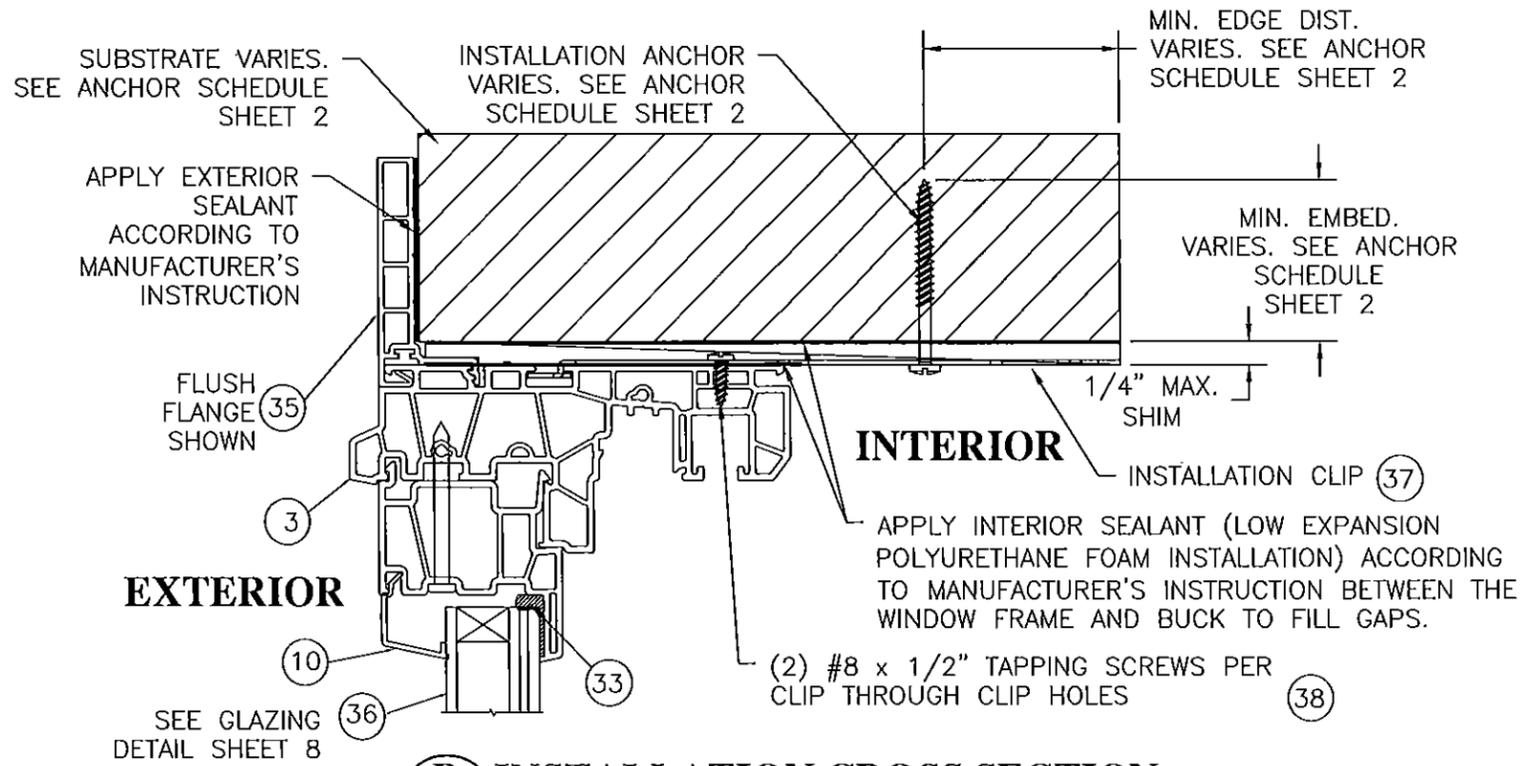




B INSTALLATION CROSS SECTION
5 BLOCK FRAME, CLIP INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR



B INSTALLATION CROSS SECTION
5 FIN FRAME, CLIP INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR



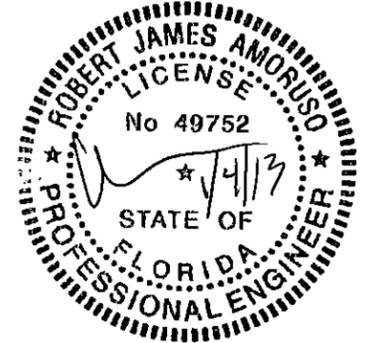
B INSTALLATION CROSS SECTION
5 FLANGE FRAME, CLIP INSTALLATION
 HEAD SHOWN, SILL AND JAMB SIMILAR

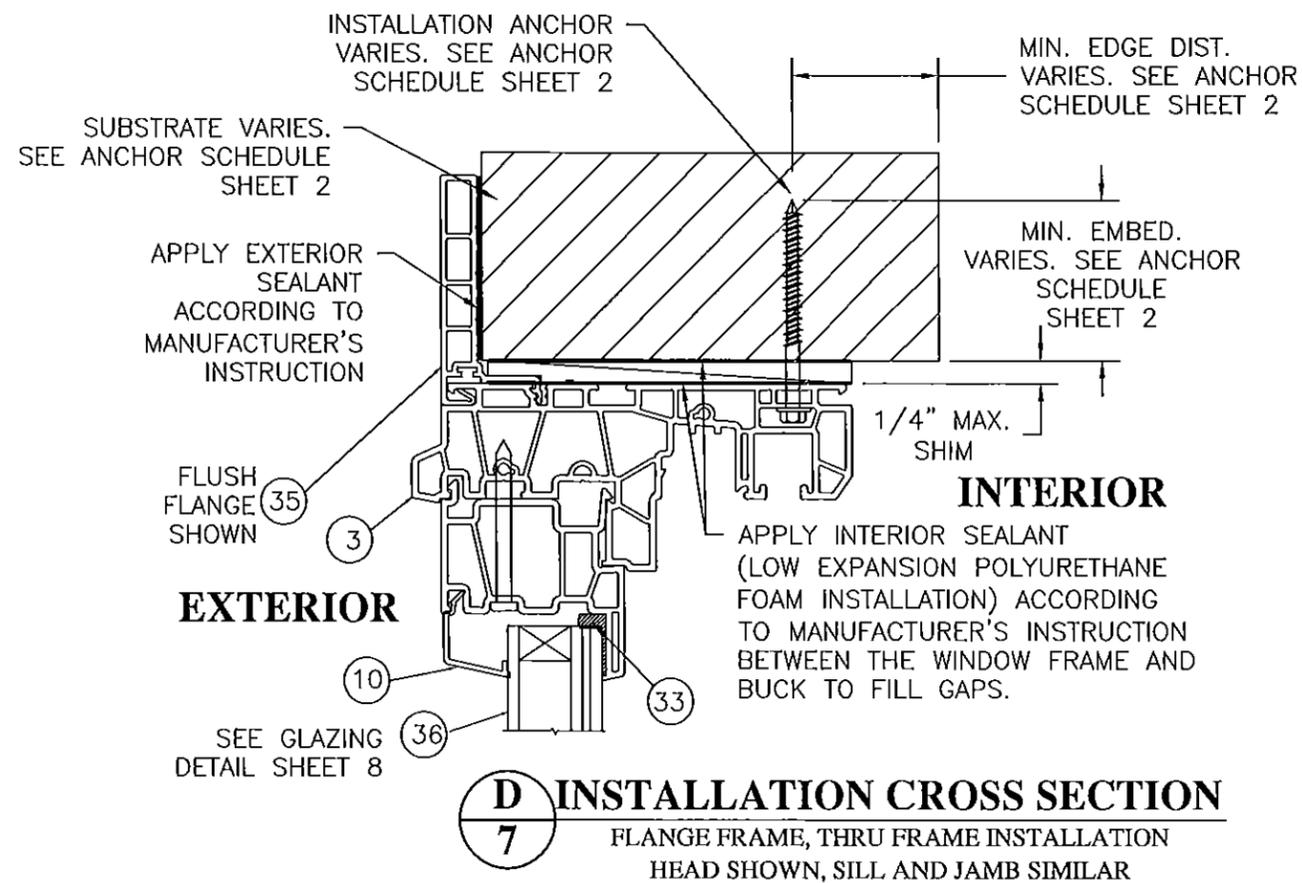
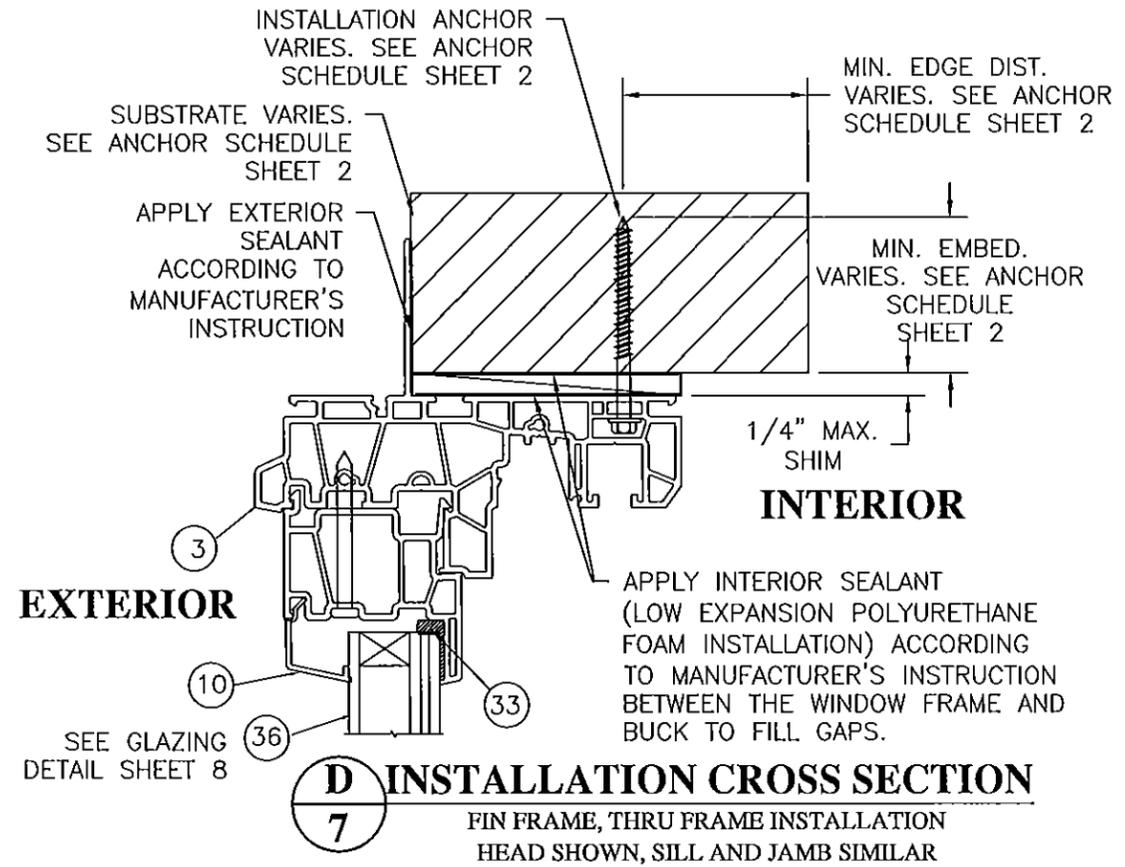
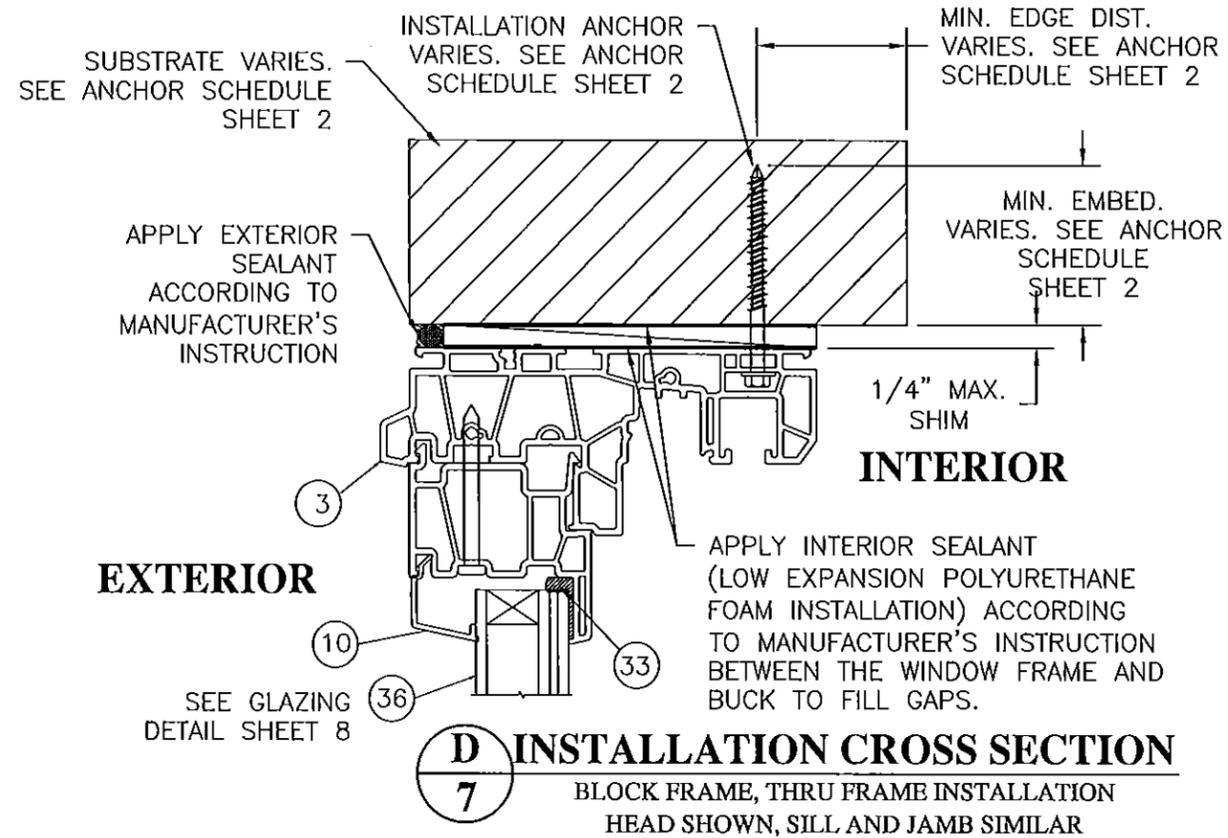
PROJECT # 411-1201.10

PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219	DATE:	1/4/13	DRAWING NO.:	PELL0029	REVISION:	
	DRAWN BY:	RJA	SCALE:	N.T.S.	SHEET:	5 OF 14
TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT CLIP INSTALLATION SECTIONS		PREPARED BY:	PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 PHONE: 321.880.1789 FAX: 321.880.1789 EMAIL: info@pdc-corp.com			

Approved as complying with the Florida Building Code
 Date July 4, 2013
 NOAH 1310115.02
 Miami Dade Product Control
 By *Manuel*

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





PROJECT # 411-1201.10

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL SINGEL HUNG WINDOW - IMPACT
THRU FRAME INSTALLATION SECTIONS

DATE: 1/4/13
DRAWING NO: PELL0029
SCALE: N.T.S.
SHEET: 7 OF 14



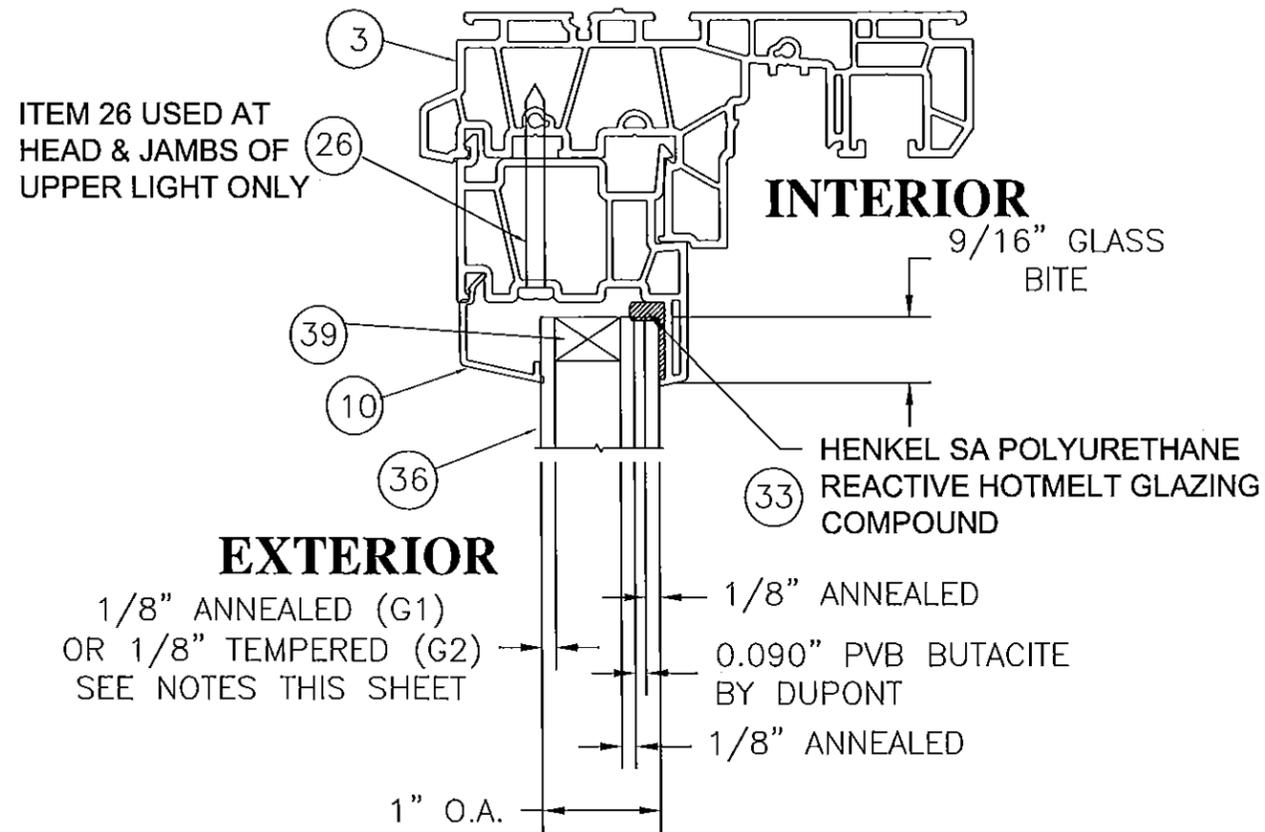
Approved as complying with the
Florida Building Code
Date July 4, 2013
MOA# 131015.02
Miami Dade Product Control
By: *Robert J. Amoruso*

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



GLAZING DETAIL NOTES:

1. APPROVED GLAZING CONFIGURATIONS (SEE NOTES 3, 4 AND 5)
 - 1.1. G1 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 1/8" ANNEALED - 9/16" AIR SPACE - 1/8" ANNEALED + 0.090" PVB BUTACITE BY DUPONT + 1/8" ANNEALED. SEE NOTE 3 AND 5 BELOW.
 - 1.2. G2 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 1/8" TEMPERED - 9/16" AIR SPACE - 1/8" ANNEALED + 0.090" PVB BUTACITE BY DUPONT + 1/8" ANNEALED. SEE NOTE 3 AND 4 BELOW.
2. SEE TABLE WINDOW SIZE VS. DESIGN PRESSURE ON SHEET 2 FOR APPROVED CONFIGURATIONS. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES AND DO NOT EXCEED THE MAXIMUM WINDOW AREA TESTED.
3. GLAZING DETAILS G1 AND G2 MEET LARGE MISSILE IMPACT REQUIREMENTS AT HEIGHTS UP TO 30 FEET ABOVE GRADE AS REQUIRED BY 2010 FBC, SECTION 2411.3.3.7.
4. GLAZING DETAIL G2 MEETS SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS GREATER THAN 30 FEET ABOVE GRADE AS REQUIRED BY 2010 FBC, SECTION 2411.3.3.77.
5. GLAZING DETAILS G1 DOES NOT MEET SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS GREATER THAN 30 FEET ABOVE GRADE AS REQUIRED BY 2010 FBC, SECTION 2411.3.3.77.
6. A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH IN ACCORDANCE WITH 2010 FBC, SECTION 2411.3.3.1.



GLAZING DETAIL 1 & 2

BLOCK FRAME SHOWN, FLANGE AND FIN FRAMES SIMILAR
 FIXED HEAD SHOWN, FIXED JAMB SAME. FIXED HEAD MEETRAIL
 SIMILAR GLAZING DETAIL. SASH RAIL AND STILE GLAZING
 DETAIL SIMILAR.

(SETTING BLOCKS USED AT SILL AS REQUIRED)

SEE DETAIL A/10 ON SHEET 10 FOR GLAZING ADHESIVE ITEM NO.
 40 USED AT MEETRAIL.

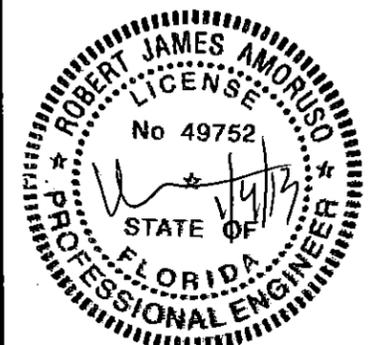
PROJECT # 411-1201.10

PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219	DATE: 1/4/13	DRAWING NO.: PELL0029	REV: 8 OF 14
TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT GLAZING DETAIL AND GLAZING NOTES	DRAWN BY: RJA	SCALE: N.T.S.	SHEET: 8 OF 14
PREPARED BY:	DATE:	DRAWING NO.:	REV.:
FTC PRODUCT DESIGN GROUP, LLC PO BOX 50375 LONGWOOD, FLORIDA 32752 PHONE: 321.690.1785 FAX: 321.690.1789 EMAIL: info@pdc-corp.com			

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 Date: July 4, 2013
 NOA# 13-0175-07
 Miami Dade Product Control

By: *Maurice Perez*

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

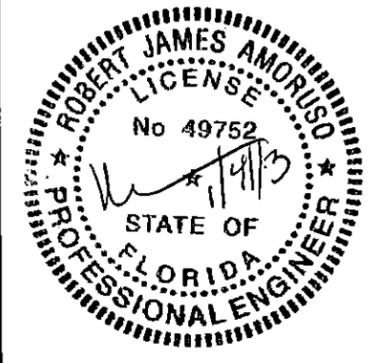


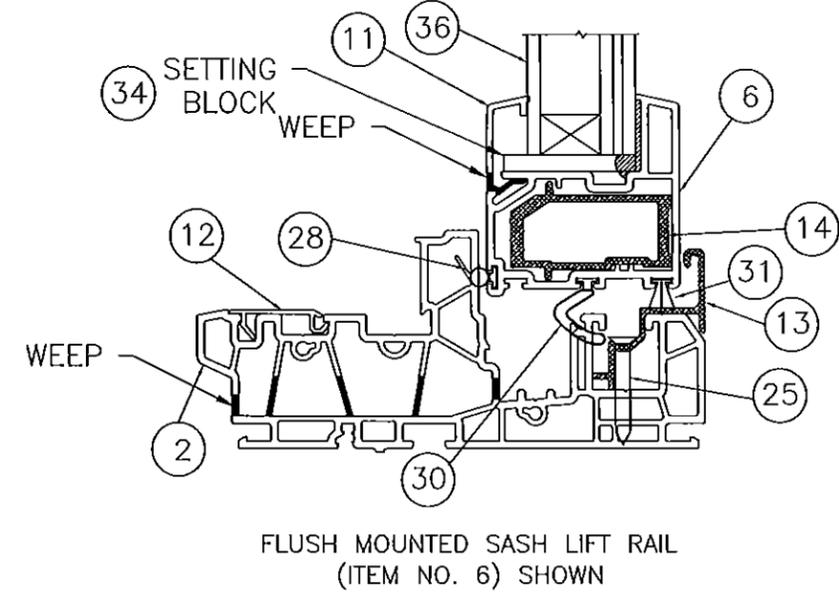
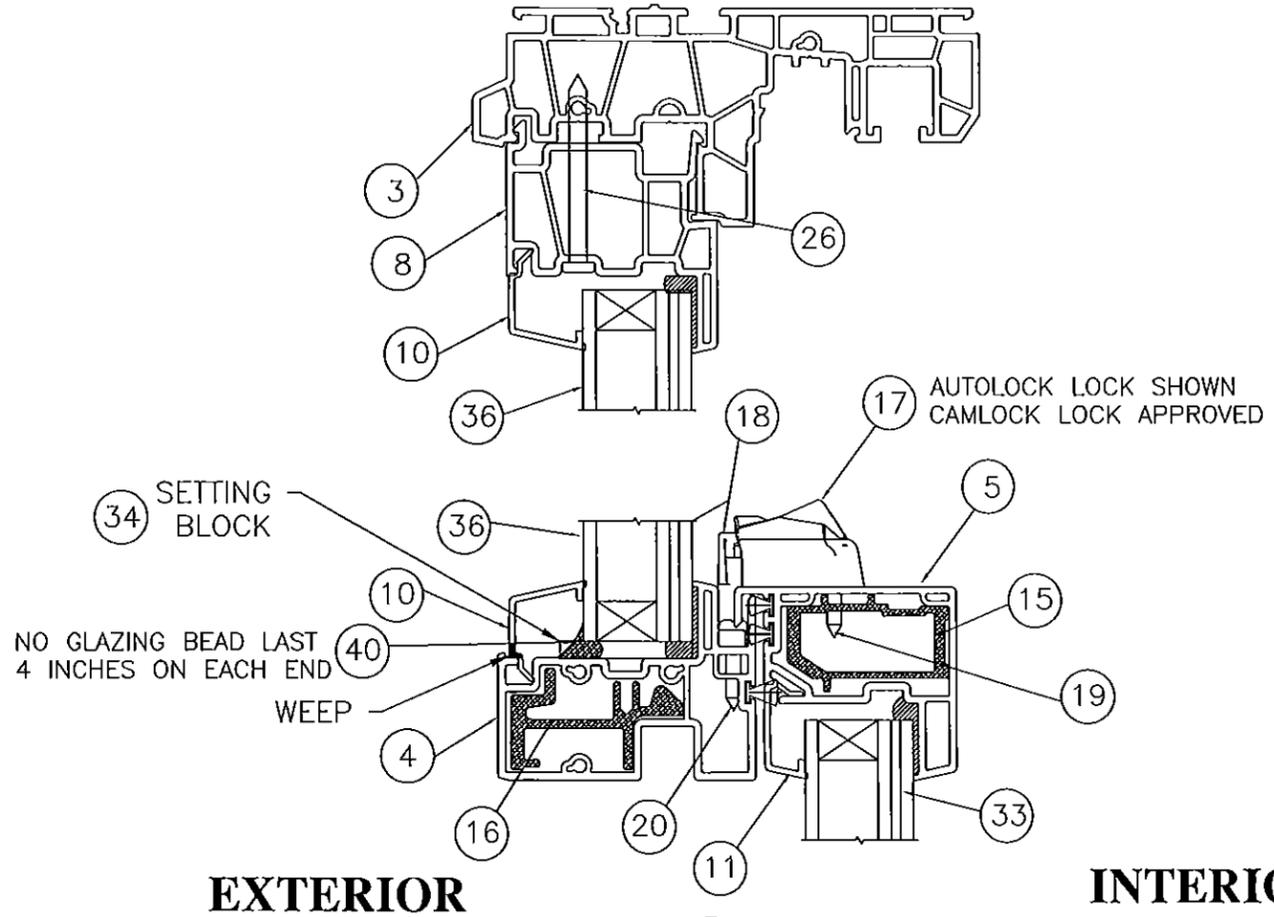
BILL OF MATERIALS			
NO	DESCRIPTION	MATERIAL/VENDOR	QTY
1	JAMB	MIKRON IND., INC.	2
2	SILL	MIKRON IND., INC.	1
3	HEAD	MIKRON IND., INC.	1
4	MEETRAIL	MIKRON IND., INC.	1
5	INTERLOCK RAIL	MIKRON IND., INC.	1
6	SASH BOTTOM RAIL & STILE	MIKRON IND., INC.	3
7	SASH BOTTOM LIFT RAIL	MIKRON IND., INC.	1
8	FILLER BAR	MIKRON IND., INC.	3
9	BALANCE COVER	MIKRON IND., INC.	2
10	FRAME GLAZING BEAD	MIKRON IND., INC.	4
11	SASH GLAZING BEAD	MIKRON IND., INC.	4
12	SILL COVER	MIKRON IND., INC.	1
13	SILL RISER	6063-T6 ALUMINUM	1
14	STILE/BOT. RAIL STIFFENER	6061-T6 ALUMINUM	3
15	INTERLOCK STIFFENER	6061-T6 ALUMINUM	1
16	MEETRAIL STIFFENER	6061-T6 ALUMINUM	1
17	LOCK	EITHER AUTO OR CAM	
	AUTOLOCK	INTERLOCK	2
	CAMLOCK	BETTELI	2
18	STRIKE/KEEPER	EITHER AUTO OR CAM	
	AUTOLOCK KEEPER	INTERLOCK	2
	CAMLOCK KEEPER	BETTELI	2
19	LOCK SCREWS #6 X 1"	ZINC PLATED STEEL	1
20	KEEPER SCREWS #6 X 3/4"	STAINLESS	4
21	TILT LATCH ASSEMBLY	AMESBURY (FASTEK)	2
22	TILT LATCH SCREW #6 X 1/2"	STAINLESS	4
23	PIVOT BAR	DECO	2
24	PIVOT BAR SCREW #6 X 1/2"	STAINLESS	8
25	SILL RISER SCREW #6 X 1	STAINLESS	8
26	FILLER BAR SCREW #8 X 1-3/4"	STAINLESS	10" O.C.
27	BALANCE	AMESBURY (BSI)	2
28	BOTTOM RAIL LEAF	AMESBURY (FOAMTITE)	1
29	STILE WEATHERSTRIP	SCHLEGEL	2
30	BOTTOM RAIL WEATHERSTRIP	AMESBURY (FOAMTITE)	1
31	PILE WEATHERSTRIP WITH LEAF	ULTRAFAB	.
32	PILE WEATHERSTRIP	ULTRAFAB	2
33	POLYURETHANE REACTIVE HOTMELT GLAZING COMPOUND	HENKEL SA	AS REQ'D
34	SETTING BLOCK	PVC/SEE SHEET 13	AS REQ'D
35	FLANGE	MIKRON IND., INC.	4
	FLUSH FLANGE (SNAP-ON)	MIKRON IND., INC.	
	5/8" FLANGE (SNAP-ON)	MIKRON IND., INC.	
36	GLAZING	SEE SHEET 8	2
37	INSTALLATION CLIP	SEE SHEET 14	AS REQ'D
38	#8 x 1/2" TAPPING SCREW	AISI 1018 STEEL	AS REQ'D
39	14.5MM (9/16") STAINLESS STEEL SPACER	CARDINAL GLASS	AS REQ'D
40	URETHANE SEALANT/ADHESIVE	MANUS-BOND 75-AM	AS REQ'D

PROJECT # 411-1201.10		DATE: 1/4/13	DRAWING NO: PELL0029	REV: 9 OF 14
PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219		DRAWN BY: RJA	SCALE: N.T.S.	REV: -
TITLE: SERIES 350 4-1/2" VINYL SINGEL HUNG WINDOW - IMPACT BILL OF MATERIALS		 <small> PFC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 PHONE: 321.880.1788 FAX: 321.880.1789 EMAIL: info@pfc-corp.com </small>		

Approved as complying with the Florida Building Code
 Date: July 4, 2013
 NOAH: 13-10143.02
 Miami Dade Product Control
 By: *Manuel Perez*

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





FLUSH MOUNTED SASH LIFT RAIL
(ITEM NO. 6) SHOWN

INTEGRATED SASH LIFT RAIL
(ITEM NO. 7) SHOWN

A **VERTICAL CROSS SECTION**
10 BLOCK FRAME SHOWN, FLANGE AND FIN
 FRAMES ALSO APPROVED

PROJECT # 411-1201.10

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL SINGEL HUNG WINDOW - IMPACT
 VERTICAL CROSS SECTION

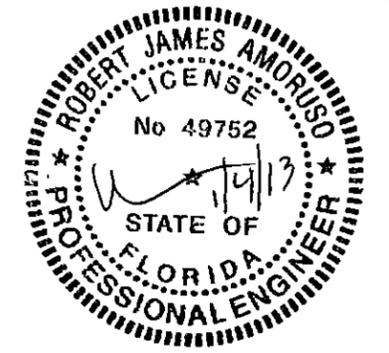
DATE: 1/4/13
 DRAWING NO: PELL0029
 SCALE: N.T.S.
 SHEET: 10 OF 14

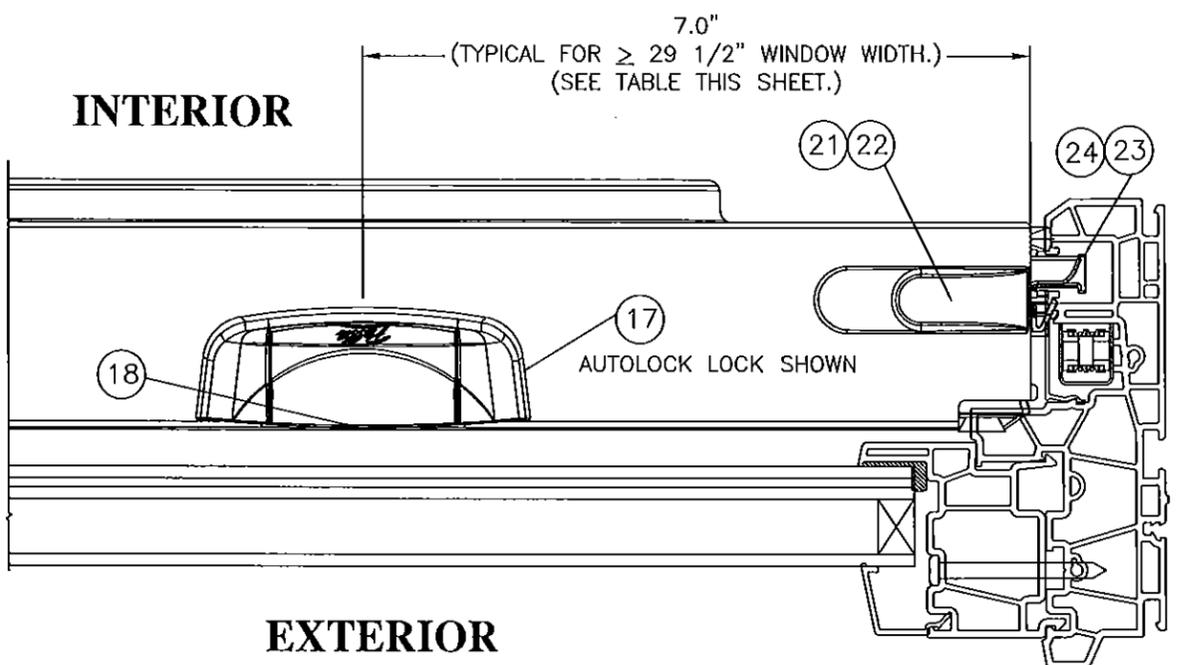
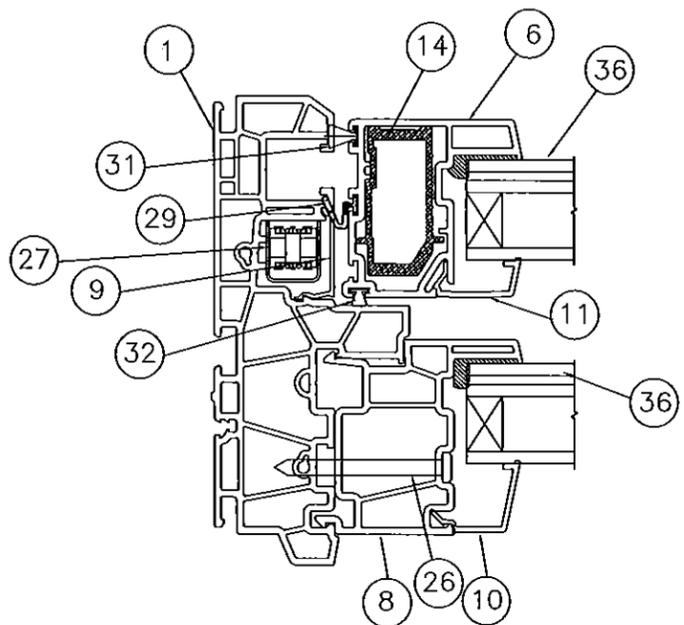


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 Florida Building Code
 Date July 4, 2013
 NOA# 13-10115-02
 Miami Dade Product Control

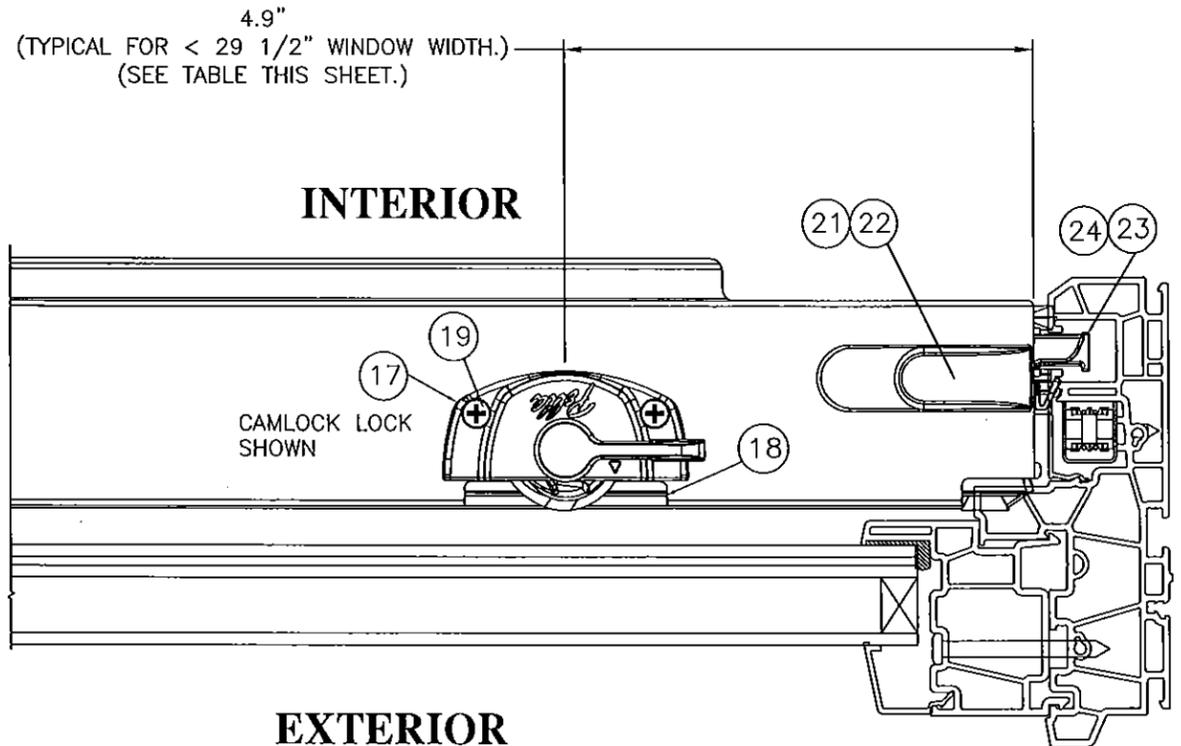
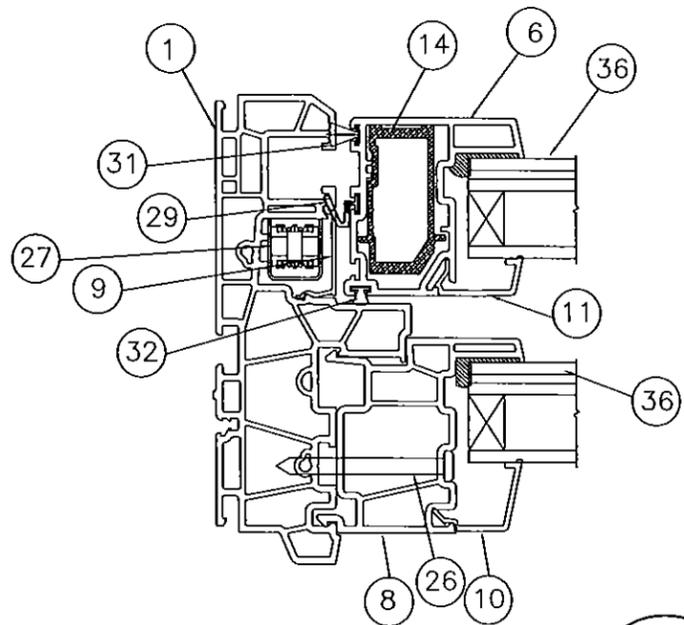
By *Manuel Lopez*

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





AUTOLOCK/CAMLOCK LOCATION (MEASURED FROM SASH EDGE TO CENTERLINE OF LOCK)	
FRAME WIDTH (IN)	LOCK LOCATION (IN)
$\geq 29 \frac{1}{2}$ "	7"
$< 29 \frac{1}{2}$ "	4.9"



E **HORIZONTAL CROSS SECTION**
11 BLOCK FRAME SHOWN, FLANGE AND FIN FRAMES
 ALSO APPROVED

PROJECT # 411-1201.10

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

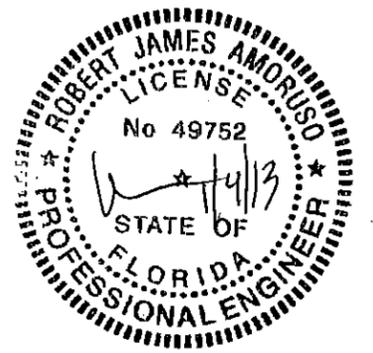
TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT
 HORIZONTAL CROSS SECTION

PREPARED BY: RJA
 DRAWN BY: RJA
 DATE: 1/4/13
 SCALE: N.T.S.
 DRAWING NO.: PELL 0029
 SHEET: 11 OF 14

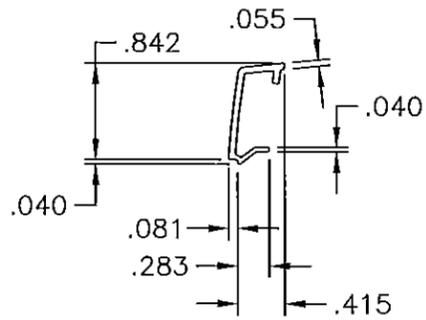
PTC PRODUCT DESIGN GROUP, LLC
 P.O. BOX 520775
 LONGWOOD, FLORIDA 32752
 Phone: 321.680.1788
 Fax: 321.680.1789
 Email: info@ptc-corp.com

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 NOA# 13-10175.02
 Miami Dade Product Control
 By: *Manuel Pra*

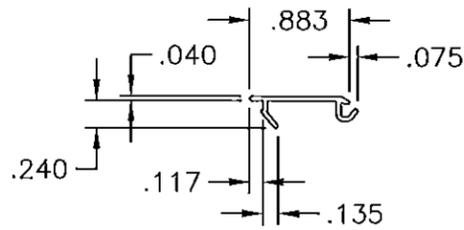
Robert J. Amoruso, P.E.
 Florida P.E. No. 49752



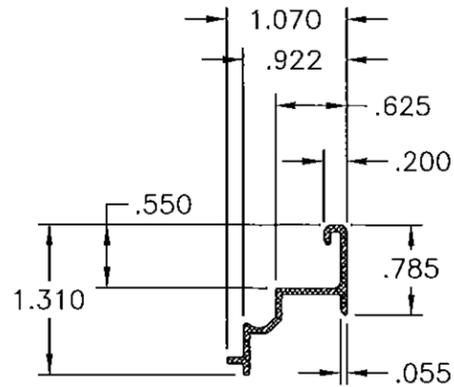
COMPONENT SECTIONS



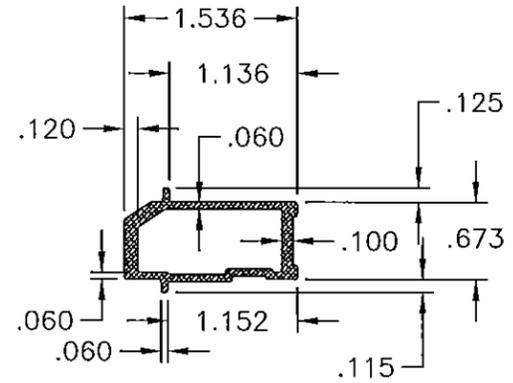
⑪ SASH GLAZING BEAD



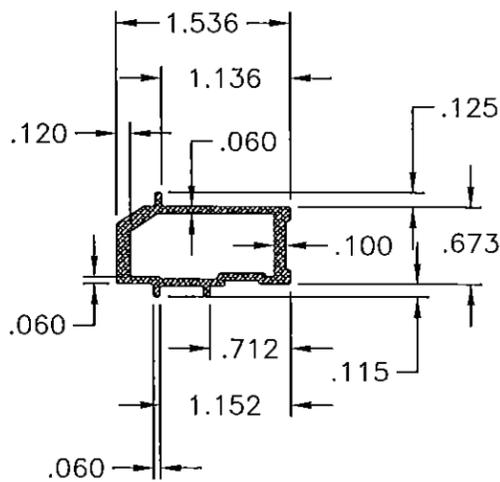
⑫ SILL COVER



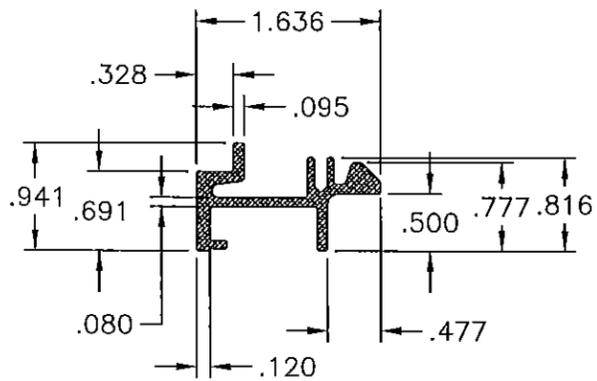
⑬ SILL RISER



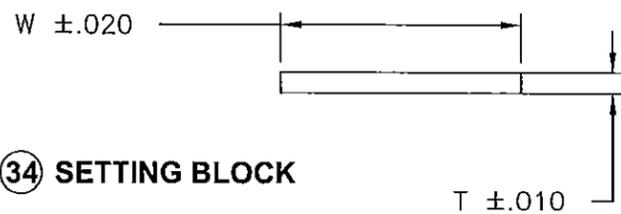
⑭ STILE/BOT. RAIL STIFFENER



⑮ INTERLOCK STIFFENER



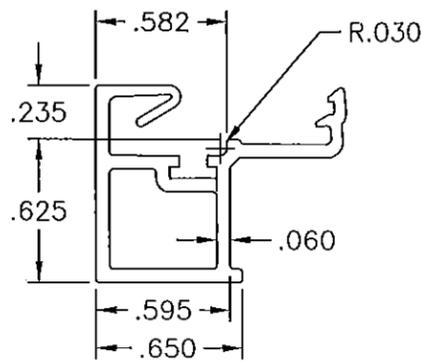
⑯ MEETRAIL STIFFENER



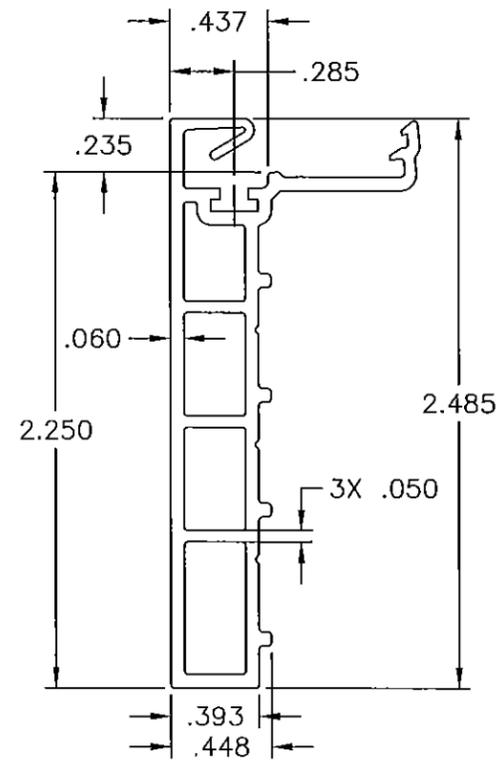
⑳ SETTING BLOCK

MATERIAL: PVC
HARDNESS: SHORE A 80-90,
SHORE D 75-87

WIDTH AND THICKNESS VARY



㉑ 5/8" FLANGE (SNAP-ON)



㉒ FLUSH FLANGE (SNAP-ON)

PROJECT # 411-1201.10

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT
COMPONENT SECTIONS

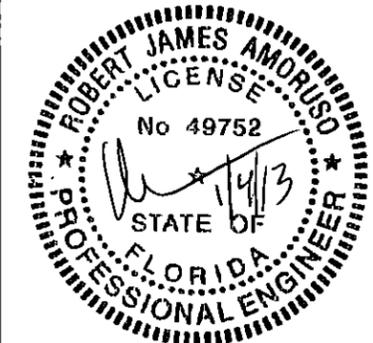
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SCALE: N.T.S.
DATE: 1/4/13
DRAWING NO.: PELL0029
SHEET: 13 OF 14



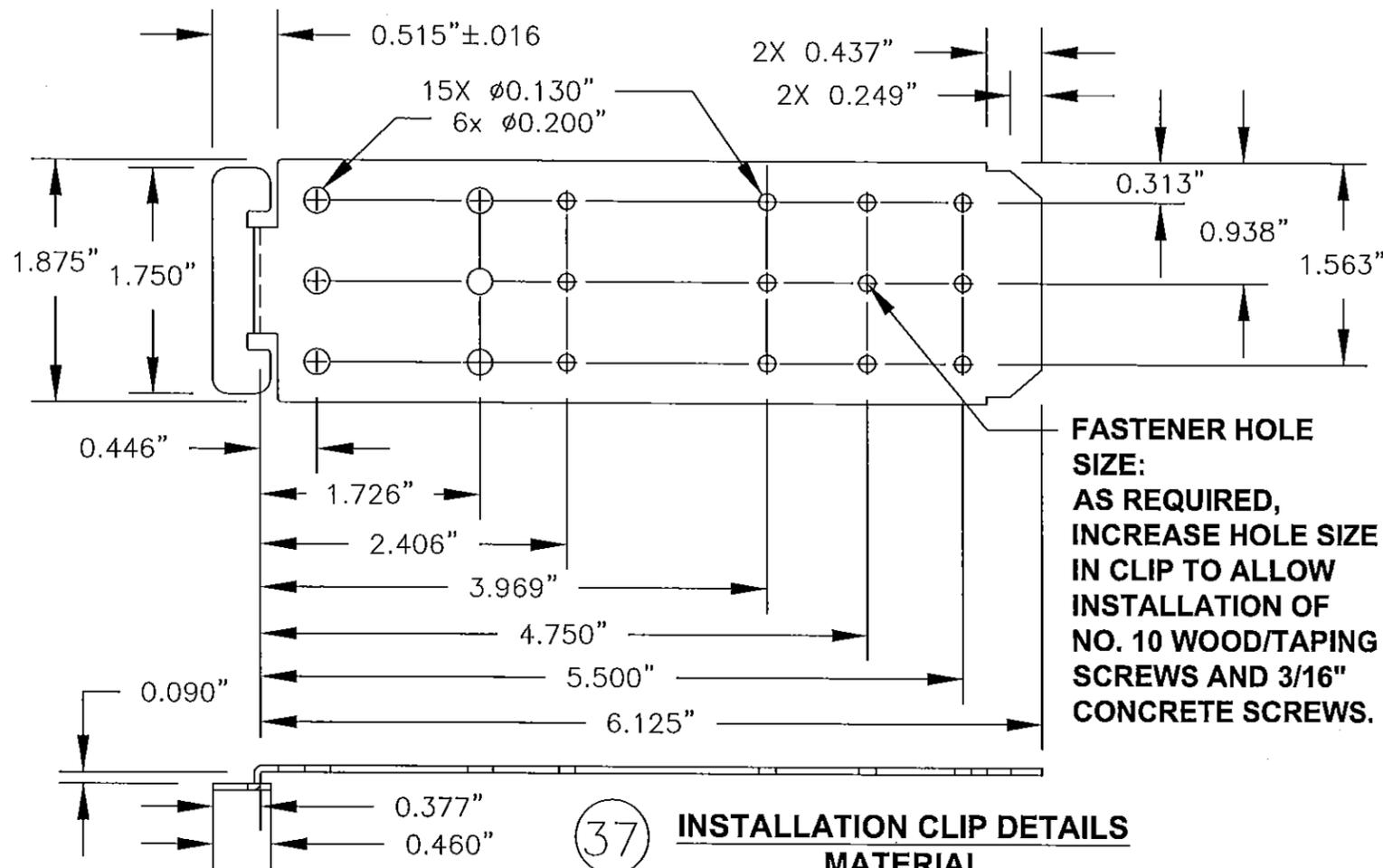
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
PHONE: 321.860.1788
FAX: 321.860.1789
EMAIL: info@ptc-corp.com

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NOA# 13-10115-02
Miguel Date Product Control
By: *Miguel Date*

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



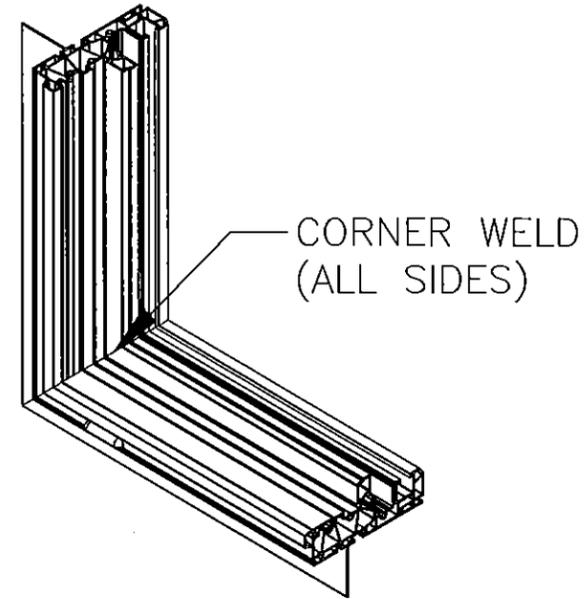
INSTALLATION CLIP DETAIL



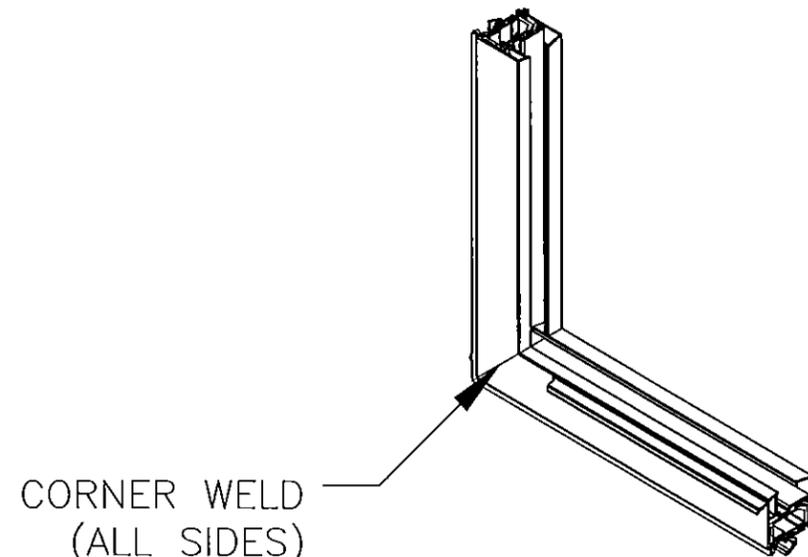
FASTENER HOLE SIZE:
AS REQUIRED,
INCREASE HOLE SIZE
IN CLIP TO ALLOW
INSTALLATION OF
NO. 10 WOOD/TAPING
SCREWS AND 3/16"
CONCRETE SCREWS.

(37) INSTALLATION CLIP DETAILS
MATERIAL
.0516 ± 0.003" HOT DIP GALV. SHEET STEEL
ROCKWELL "B" 65 MAX.
ULTIMATE STRENGTH = 55 KSI MIN.
YIELD STRENGTH = 30 KSI MIN.

CORNER CONSTRUCTION



FRAME CORNER CONSTRUCTION



SASH CORNER CONSTRUCTION

PROJECT # 411-1201.10

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL SINGLE HUNG WINDOW - IMPACT
 INSTALLATION CLIP DETAIL & CORNER CONSTRUCTION

PREPARED BY: RJA
 DATE: 1/4/13
 SCALE: N.T.S.
 DRAWING NO: PELL0029
 SHEET: 14 OF 14



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 NOA# 13-10113-02
 Miami Code Product Control
 By: *Manuel Perez*

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

