



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**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 PERA - 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. PERA 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 "HIG Fixed Casement" Aluminum Clad Wood Fixed Window – L.M.I**

**APPROVAL DOCUMENT:** Drawing No. 1519, titled "HIG Aluminum Clad Impact Fixed Casement Window", sheets 1 through 6 of 6, dated 03/23/07, with revision B1 dated 10/21/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration 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 renews NOA # 11-1026.12 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



NOA No. 12-0620.12  
Expiration Date: November 8, 2017  
Approval Date: August 9, 2012  
Page 1

*J Gascon*  
*8/11/12*

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS (Submitted under previous NOA# 11-1026.12)**

1. Manufacturer's die drawings and sections.
2. Drawing No. **1519**, titled "HIG Aluminum Clad Impact Fixed Casement Window", sheets 1 through 6 of 6, dated 03/23/07, with revision B1 dated 10/21/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, 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 202-94along with marked-up drawings and installation diagram of series HIG aluminum clad wood casement window, prepared by Architectural Testing, Inc., Test Report No. **ATI-93260.01-201-18**, dated 09/15/09, signed and sealed by Joseph A. Reed, P.E. **(Submitted under previous NOA# 09-1027.06)**
2. Test reports on:
  - 1) Large Missile Impact Test per FBC, TAS 201-94
  - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of three series/model HIG IG aluminum clad wood casement/fixed windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-93328.01-201-18**, dated 08/24/09, with revision 1 dated 10/12/09, all signed and sealed by Joseph A. Reed, P.E. **(Submitted under previous NOA# 09-1027.06)**
3. 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
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI-71262.08-201-18**, dated 05/27/07, signed and sealed by Joseph A. Reed, P.E. **(Submitted under previous NOA# 07-0619.13)**



Jaime D. Gascon, P.E.  
Product Control Section Supervisor  
NOA No. 12-0620.12  
Expiration Date: November 8, 2017  
Approval Date: August 9, 2012

**Pella Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS: *(Submitted under previous NOA# 11-1026.12)***

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, dated 09/08/09 and updated on 10/21/11, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0413.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2007 and FBC-2010, dated 10/21/11, signed and sealed by Warren W. Schaefer, P.E.  
*(Submitted under previous NOA# 11-1026.12)*
2. Statement letter of no financial interest, dated 10/19/11, signed and sealed by Warren W. Schaefer, P.E. *(Submitted under previous NOA# 11-1026.12)*
3. Laboratory compliance letters for Test Report No. **ATI-93260.01-201-18**, **ATI-93328.01-201-18** and **ATI-71262.08-201-18**, issued by Architectural Testing, Inc., dated September 15, 2009 and August 25, 2009, signed and sealed by Joseph A. Reed, P.E.

**G. OTHERS**

1. Notice of Acceptance No. 11-1026.12, issued to Pella Corporation for their Series "Impact Resistant" Aluminum Clad Wood Fixed Casement Window – L.M.I., approved on 01/12/12 and expiring on 11/08/12.



Jaime D. Gascon, P.E.  
Product Control Section Supervisor  
NOA No. 12-0620.12  
Expiration Date: November 8, 2017  
Approval Date: August 9, 2012

**GENERAL NOTES:**

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. 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.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

**CORNER CONSTRUCTION**

**FRAME CORNERS:** THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS & SECURED WITH THREE(3) 14 GAGE 7/16" X 2 1/2" STAPLES. CLADDING IS MITERED TOGETHER, JOINED WITH A PLASTIC CORNER KEY PART NO. 77U0000 & SEALED WITH BUTYL DEVAN 578.12 OR BOSTIK 900 POLYURETHANE SEALANT. EACH CLADDING MEMBER IS SECURED TO THE KEY WITH 1 NO. 10 X 17/32" FH SCREW (2 TOTAL PER CORNER)

**SASH CORNERS:**

**OPTION 1:** MORTISE & TENON CONSTRUCTION. A 1/8" BEAD OF BOSTIK CHEM-CALK URETHANE IS PLACED AT THE TENNON BOTTOM SURFACE. WOOD GLUE IS PLACED AT THE TENNON SIDES. THE JOINT IS THEN ASSEMBLED & SECURED WITH ONE 15 GA. X 1 1/2" FINISH NAIL.

**OPTION 2:** SCREWED CONSTRUCTION. MEMBER ENDS ARE PROFILED AND PARTIALLY TENONED, BUTTED & ADHERED TOGETHER WITH BOSTIK 70-05/70-05A AND THEN SECURED WITH NO. 12 X 4" FH WOOD SCREWS (1 SCREW WITH SASH HEIGHTS LESS THAN 3.5"; 2 SCREWS WITH SASH HEIGHTS 3.5" TO 5 3/8"). THE CLADDING IS TABBED WITH THE TABS MEETING IN A BED OF BOSTIK IN A GROOVE ON THE EXTERIOR SASH FACE RESULTING FROM THE PARTIALLY TENNONED RAIL END.

SASH CORNER OPTION 2 WINDOWS ARE LIMITED TO MAXIMUM +/-60 PSF DESIGN PRESSURE (SEE PRESSURE NOTE ON SHEET 2)

**FRAME ANCHOR REQUIREMENTS TABLE**

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
<b>FRAME SHEAR SCREWS</b>			
2X_ 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 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

**INSTALLATION CLIP**

2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"

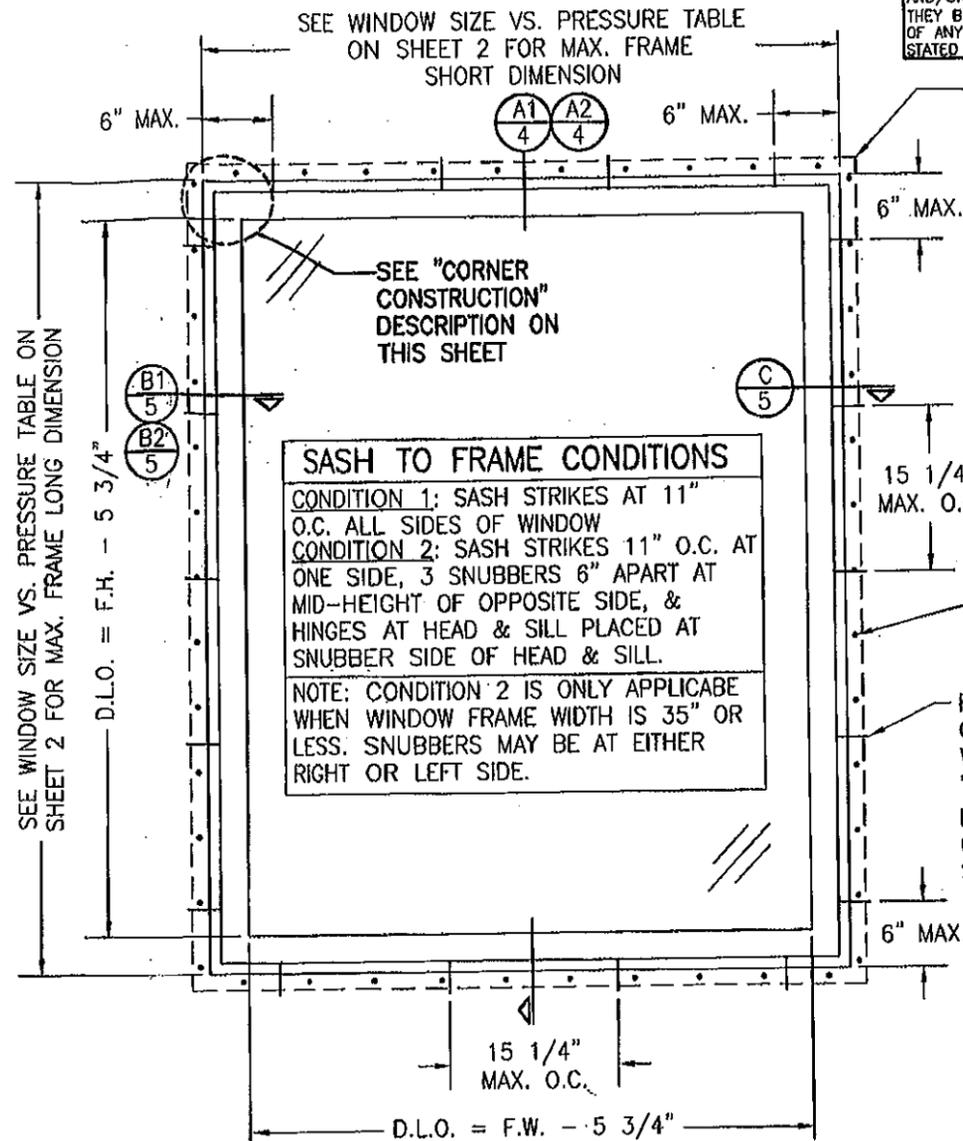
**NAILING FIN**

2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	2" X 11 GA. ROOFING NAIL	1 7/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
DATE: 09/20/09	DATE: 03/23/07
REVISION DESCRIPTION	NO.
AT UPDATE PER NEW TESTING AND CURRENT STANDARDS	1
BT UPDATE CURRENT STANDARDS	2



**EXTERIOR ELEVATION  
SINGLE FIXED CASEMENT WINDOW**

SCALE: 3/4" = 1'-0"

**ALLOWABLE DESIGN PRESSURE  
SEE LOAD TABLES ON SHEET 2**

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No 12-0620-12  
Expiration Date 11/8/2017  
By *Warren W. Schaefer*  
Miami Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 11-1026-12  
Expiration Date Nov. 8, 2012  
By *Warren W. Schaefer*  
Miami Dade Product Control



DRAWING TITLE: **HIG ALUMINUM CLAD IMPACT FIXED 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

CERTIFICATION: *Warren W. Schaefer*  
OCT 21 2011  
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135

DRAWING NO. 1519  
REV. B  
SHEET NO. 1 OF 6

**ALLOWABLE WINDOW SIZE VS. PRESSURE TABLE (SEE PRESSURE NOTE BELOW TABLE)**  
(SINGLE WINDOWS)

MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)						MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)						
		GLASS OPTION								GLASS OPTION						
		A & C		B & D		E				A & C		B & D		E		
POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.			
144	29	-	-	75.0	75.0	-	-	73	59	-	-	75.0	75.0	-	-	
	26	-	-	75.0	85.0	-	-		52	-	-	75.0	81.8	-	-	
	17	75.0	75.0	75.0	85.0	-	-		48	-	-	75.0	85.0	-	-	
132	32	-	-	75.0	75.0	-	-		35	75.0	75.0	75.0	85.0	-	-	
	29	-	-	75.0	85.0	-	-		31	75.0	75.0	75.0	85.0	(*)65.5	(*)65.5	
	19	75.0	75.0	75.0	85.0	-	-		29	75.0	75.0	75.0	85.0	(*)71.3	(*)71.3	
120	17	75.0	75.0	75.0	85.0	-	-		25	75.0	75.0	75.0	85.0	75.0	75.0	
	35	-	-	75.0	75.0	-	-		71	60	-	-	75.0	75.0	-	-
	32	-	-	75.0	84.9	-	-			54	-	-	75.0	81.8	-	-
	21	75.0	75.0	75.0	85.0	-	-			49	-	-	75.0	85.0	-	-
19	75.0	75.0	75.0	85.0	74.8	74.8	35	75.0		75.0	75.0	85.0	-	-		
108	39	-	-	75.0	75.0	-	-	32		75.0	75.0	75.0	85.0	(*)64.8	(*)64.8	
	35	-	-	75.0	85.0	-	-	29		75.0	75.0	75.0	85.0	(*)73.4	(*)73.4	
	23	75.0	75.0	75.0	85.0	-	-	25	75.0	75.0	75.0	85.0	75.0	75.0		
	21	75.0	75.0	75.0	85.0	75.0	75.0	65	65	-	-	75.0	75.0	-	-	
96	44	-	-	75.0	75.0	-	-		59	-	-	75.0	85.0	-	-	
	39	-	-	75.0	85.0	-	-		39	73.1	73.1	75.0	85.0	-	-	
	26	75.0	75.0	75.0	85.0	-	-		35	75.0	75.0	75.0	85.0	(*)69.6	(*)69.6	
	23	75.0	75.0	75.0	85.0	75.0	75.0		32	75.0	75.0	75.0	85.0	(*)73.7	(*)73.7	
84	50	-	-	75.0	75.0	-	-		29	75.0	75.0	75.0	85.0	75.0	75.0	
	45	-	-	75.0	83.1	-	-	59	59	-	-	75.0	85.0	-	-	
	41	-	-	75.0	85.0	-	-		43	73.0	73.0	75.0	85.0	-	-	
	30	75.0	75.0	75.0	85.0	-	-		38	74.6	74.6	75.0	85.0	(*)73.2	(*)73.2	
	27	75.0	75.0	75.0	85.0	(*)72.5	(*)72.5	36	75.0	75.0	75.0	85.0	75.0	75.0		
79	26	75.0	75.0	75.0	85.0	75.0	75.0	53	53	-	-	75.0	85.0	75.0	75.0	
	53	-	-	74.9	74.9	-	-		48	75.0	75.0	75.0	85.0	75.0	75.0	
	48	-	-	75.0	82.0	-	-		42	75.0	75.0	75.0	85.0	75.0	75.0	
	32	75.0	75.0	75.0	85.0	-	-	47	75.0	75.0	75.0	85.0	75.0	75.0		
	28	75.0	75.0	75.0	85.0	(*)71.3	(*)71.3									
25	75.0	75.0	75.0	85.0	75.0	75.0										

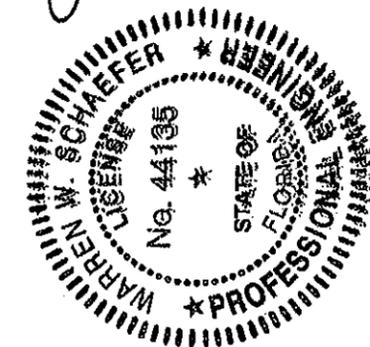
**NOTES:**  
 1. SEE GLAZING DETAILS ON SHEET 4 FOR GLASS OPTIONS.  
 2. IF NO PRESSURE IS SHOWN, THE SIZE SPECIFIED IS NOT ACCEPTABLE FOR THAT GLASS OPTION.  
 3. IF WINDOWS ARE MULLED TOGETHER, THE LESSER OF THE PRESSURE SPECIFIED IN THIS TABLE FOR THE INDIVIDUAL WINDOW(S) AND THAT SPECIFIED IN THE MULLION TABLE SHALL CONTROL FOR THE OVERALL UNIT.

(\*) WHEN GLASS TYPE "E" USES 1/8" TEMPERED GLASS FOR THE EXTERIOR PANE OF GLASS IN LIEU OF 1/8" ANNEALED, THE ALLOWABLE PRESSURE ON THE WINDOW MAY BE INCREASED TO +/-75 PSF.

**ALLOWABLE PRESSURE NOTE:**  
 PRESSURES LISTED IN TABLE CONSIDER WINDOWS WITH SASH CORNER CONSTRUCTION OPTION 1. WHEN SASH CORNER CONSTRUCTION OPTION 2 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED +/-60 PSF REGARDLESS OF PRESSURES SHOWN IN TABLE.

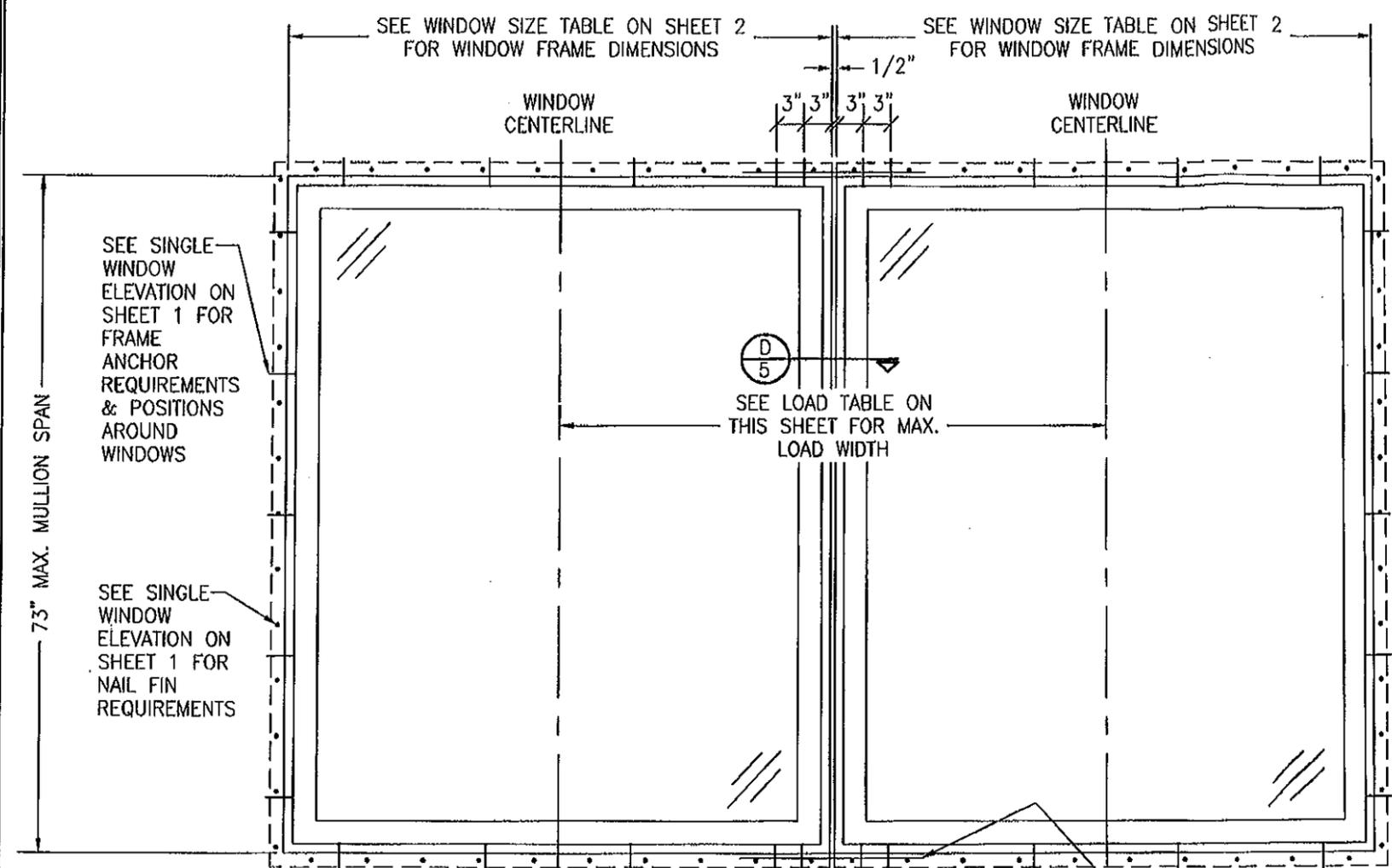
**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No 12-0620-12  
 Expiration Date 11/8/2017  
*Michael Perry*  
 Miami Dade Product Control

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 11-1026-12  
 Expiration Date Nov. 8, 2012  
*Michael Perry*  
 Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-18	DATE: 03/23/07
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: <b>HIG ALUMINUM CLAD IMPACT FIXED CASEMENT WINDOW</b> MANUFACTURER: <b>PELLA CORPORATION</b> 102 MAIN STREET PELLA, IA 50219 641-621-1000 	
CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION: OCT 27 2011 WARREN W. SCHAEFER P.E. P.E. NO. 44135	
DRAWING NO. <b>1519</b>	REV. <b>B</b>
SHEET NO. <b>2 OF 6</b>	

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-18	DATE: 03/23/07
DATE	
BY	
REVISION DESCRIPTION	
NO.	



MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		POSITIVE	NEGATIVE
73	59.5	75.0	75.0
	53.5	75.0	78.0
	47.5	75.0	82.5
	41.5	75.0	85.0
71	59.5	75.0	78.6
	53.5	75.0	81.5
	47.5	75.0	85.0
65	65.5	75.0	85.0
59	59.5 & GREATER	75.0	85.0

NOTES:  
1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.  
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.

ADDITIONAL FRAME SCREWS OR INSTALLATION CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR FRAME & CLIP SCREW REQUIREMENTS.

**EXTERIOR ELEVATION  
MULTIPLE FIXED CASEMENT  
WINDOWS**

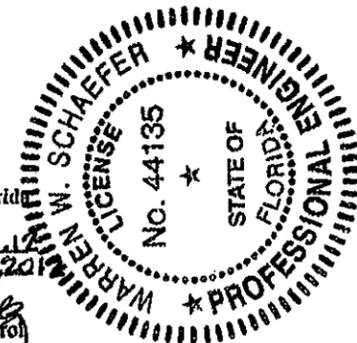
SCALE: 3/4" = 1'-0"

3" x 20" x 0.063" GALVANIZED STEEL PLATE PLACED ACROSS THE MULLION SEAM AND SECURED TO EACH WINDOW FRAME WITH 6 NO. 8 X 3/4" SCREWS (TYP. ALL MULLION ENDS)

- MULTIPLE UNIT NOTES:**
1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
  2. MULLION MAY BE HORIZONTAL OR VERTICAL PROVIDING WINDOW SIZES ARE RESTRICTED AS SHOWN IN THIS ELEVATION.
  3. IF VERTICALLY STACKED, THE MANUFACTURER SHALL INSURE THAT THE DEAD LOAD WEIGHT OF THE WINDOWS CAN NOT CAUSE UNDO FAILURE.
  4. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
  5. INDIVIDUAL WINDOW SIZES SHALL BE AS SPECIFIED IN THE SINGLE WINDOW ELEVATION.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 12-0620.12  
Expiration Date 11/8/2017  
By *[Signature]*  
Miami Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 11-1076.12  
Expiration Date Nov. 2, 2017  
By *[Signature]*  
Miami Dade Product Control



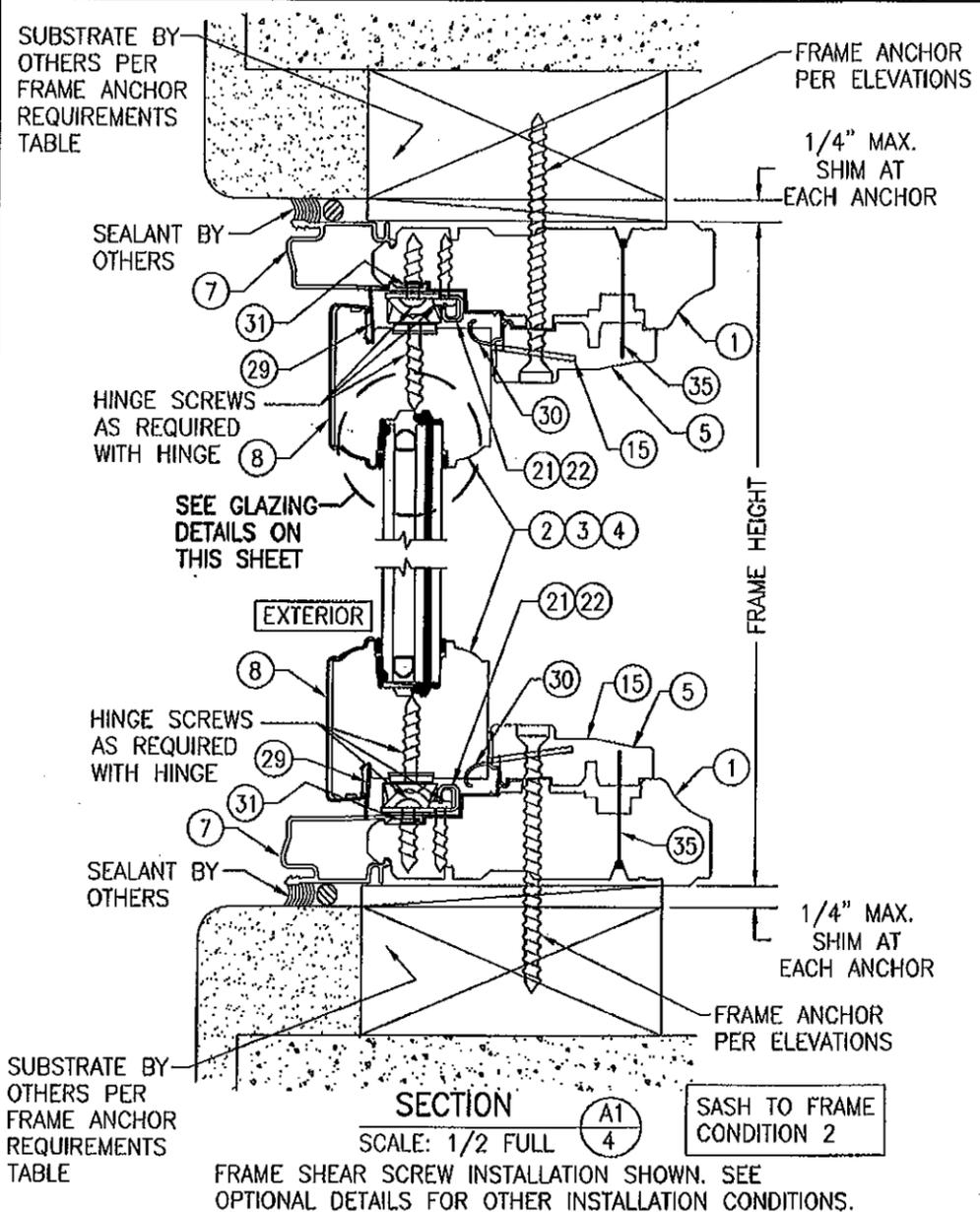
DRAWING TITLE: **HIG ALUMINUM CLAD IMPACT FIXED CASEMENT WINDOW**

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

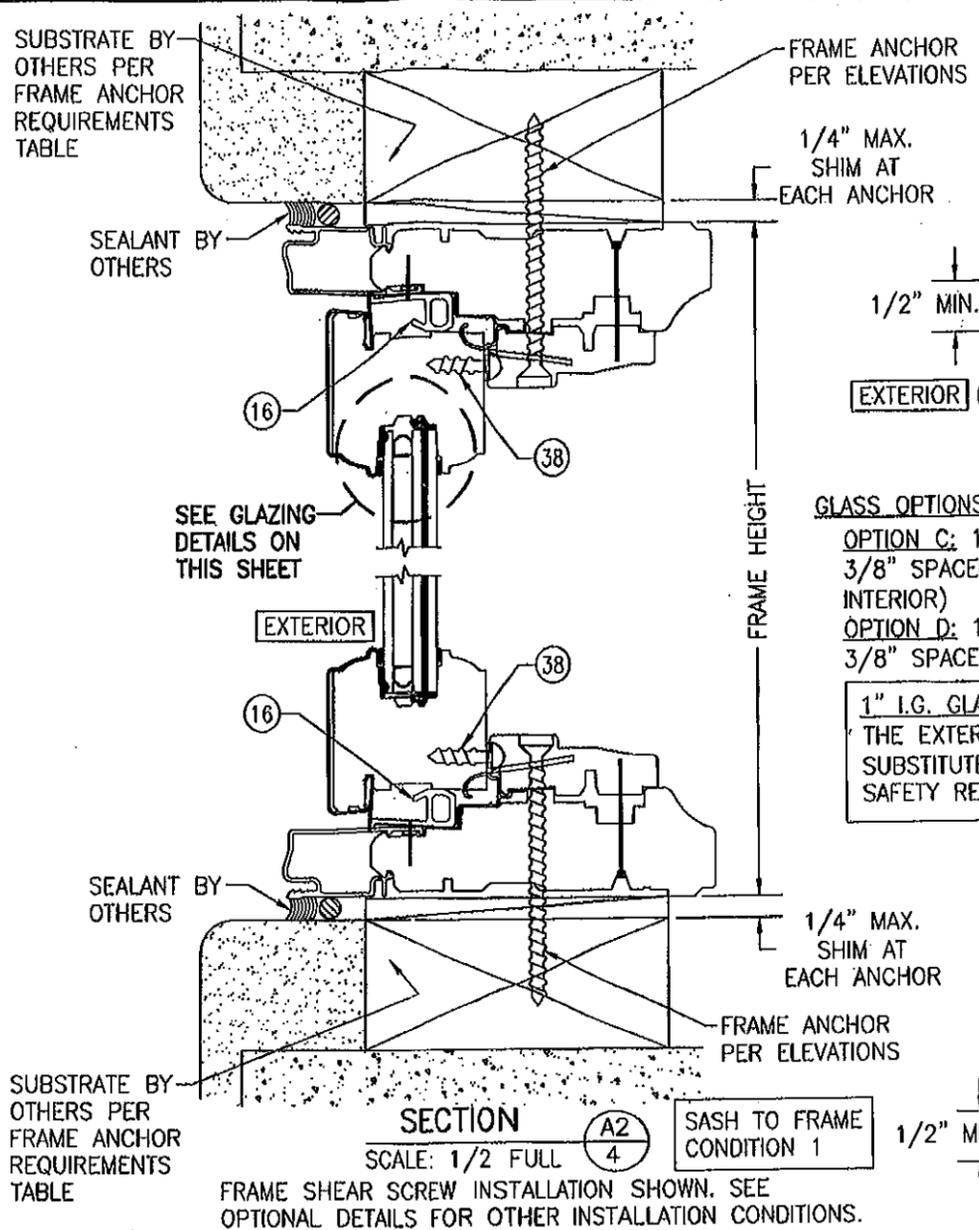
MANUFACTURER:  
**PELLA CORPORATION**  
102 MAIN STREET  
PELLA, IA 50219  
641-621-1000

CERTIFICATION:  
*[Signature]*  
DATE: **03/21/2011**  
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135

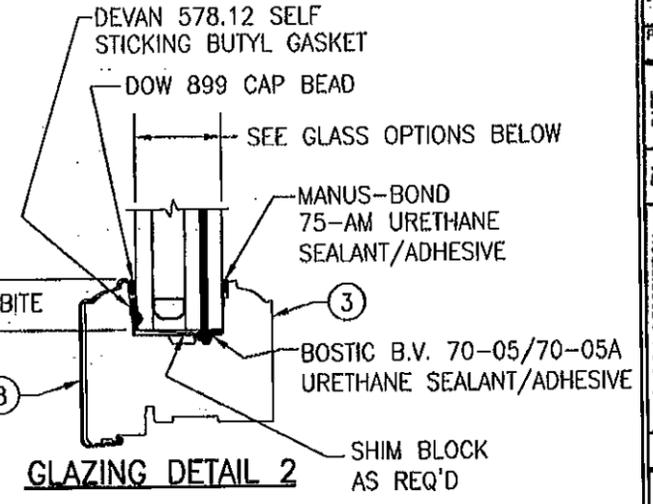
DRAWING NO. <b>1519</b>	REV. <b>B</b>
SHEET NO. <b>3</b> OF <b>6</b>	



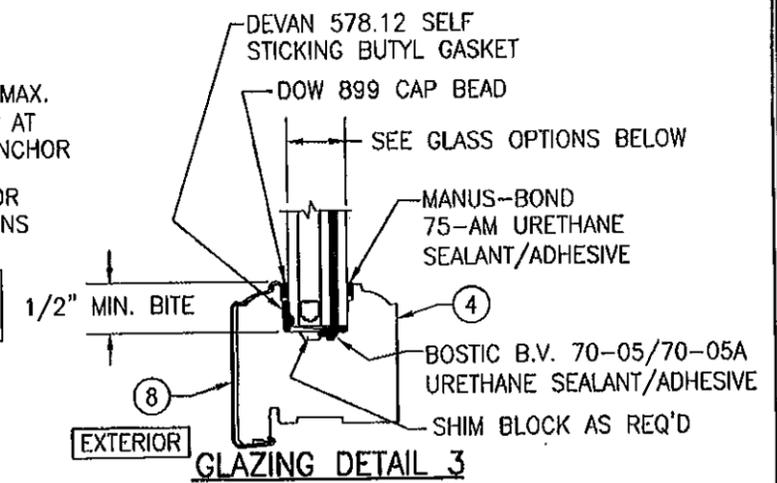
SECTION A1  
SCALE: 1/2 FULL  
SASH TO FRAME CONDITION 2  
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



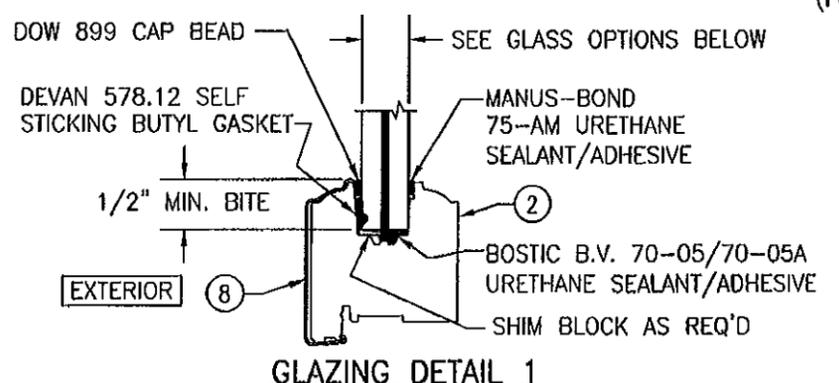
SECTION A2  
SCALE: 1/2 FULL  
SASH TO FRAME CONDITION 1  
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS. (FOR DETAIL NOT SHOWN, SEE SECTION A1/4)



**GLASS OPTIONS:**  
**OPTION C:** 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT BUTACITE PVB/5/32" AN. INTERIOR)  
**OPTION D:** 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT SG/5/32" AN. INTERIOR)  
**1" I.G. GLASS NOTE:**  
 THE EXTERIOR 3/16" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 3/16" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.



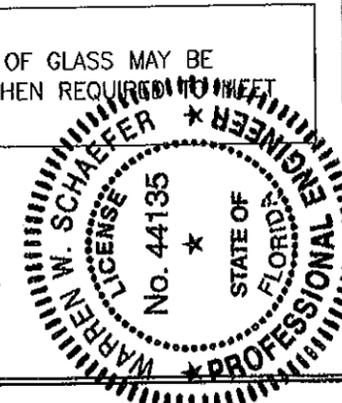
**GLASS OPTIONS:**  
**OPTION E:** 11/16" THICK LAMINATED I.G. GLASS (1/8" AN. EXTERIOR; 1/4" SPACER; 2.7mm AN./0.09 DUPONT BUTACITE PVB/2.7mm AN. INTERIOR)  
**11/16" I.G. GLASS NOTE:**  
 THE EXTERIOR 1/8" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 1/8" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.



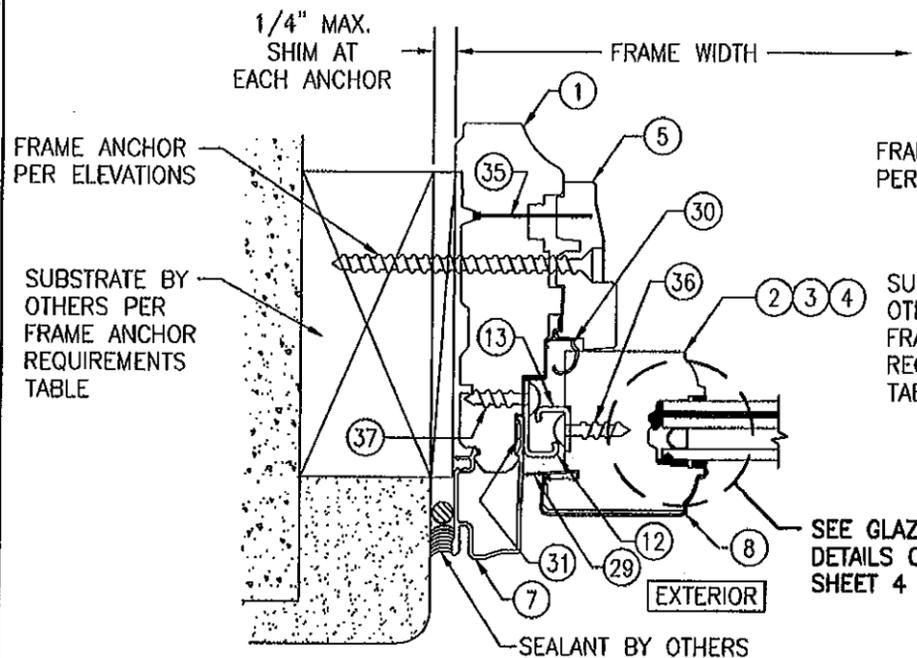
**GLASS OPTIONS:**  
**OPTION A:** 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT BUTACITE PVB/1/4" AN.)  
**OPTION B:** 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT SGP/1/4" AN.)

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No. 12-062012  
 Expiration Date 11/8/2017  
 By *Warren W. Schaefer*  
 Miami Dade Product Control

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 11-102612  
 Expiration Date Nov. 8, 2012  
 By *Warren W. Schaefer*  
 Miami Dade Product Control

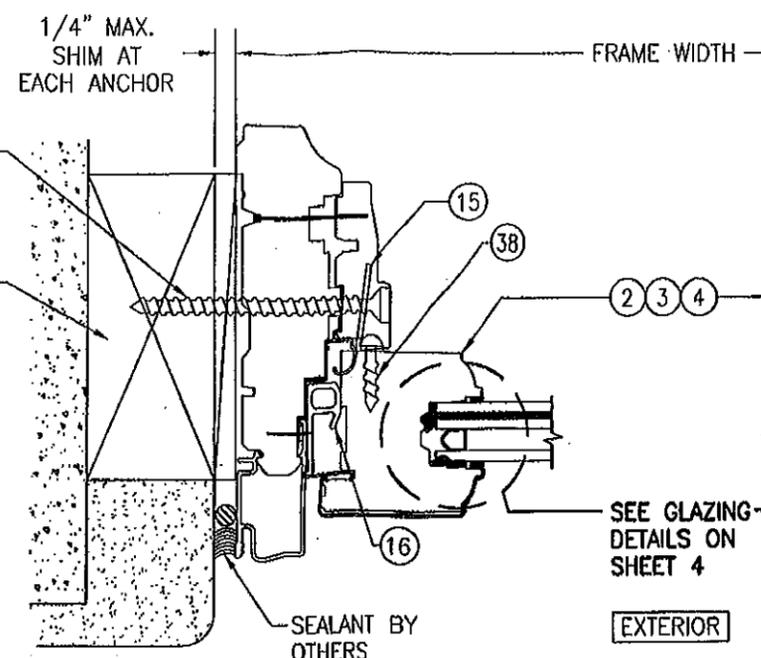


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 03/23/07
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE HIG ALUMINUM CLAD IMPACT FIXED CASEMENT WINDOW	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424	
MANUFACTURER PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000	
CERTIFICATION	DATE 03/21/2011
	WARREN W. SCHAEFER P.E. P.E. NO. 44135
DRAWING NO. 1519	REV. B
SHEET NO. 4 OF 6	



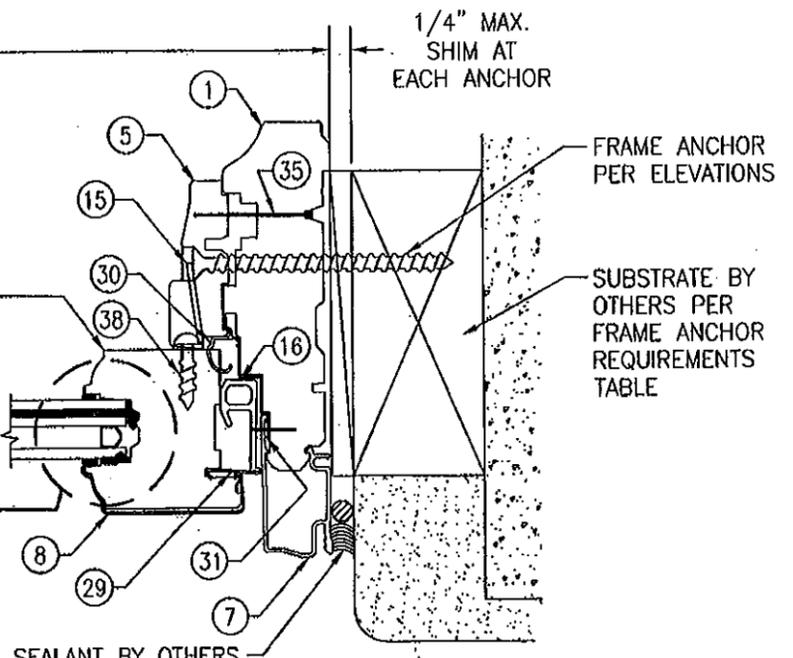
**SECTION B1**  
SCALE: 1/2 FULL  
SASH TO FRAME CONDITION 2

FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



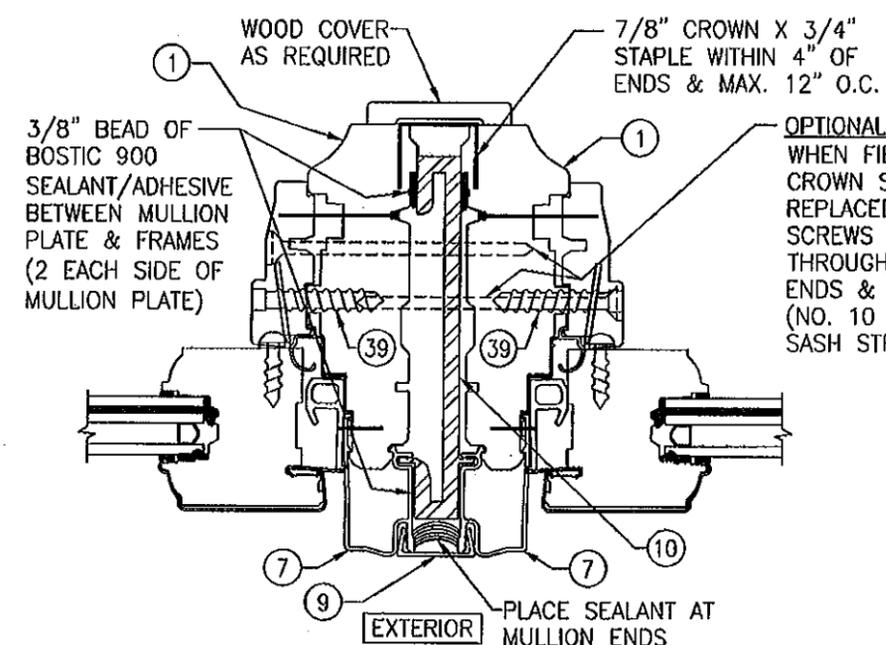
**SECTION B2**  
SCALE: 1/2 FULL  
SASH TO FRAME CONDITION 1

FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.  
(FOR DETAIL NOT SHOWN, SEE SECTION B1/5)



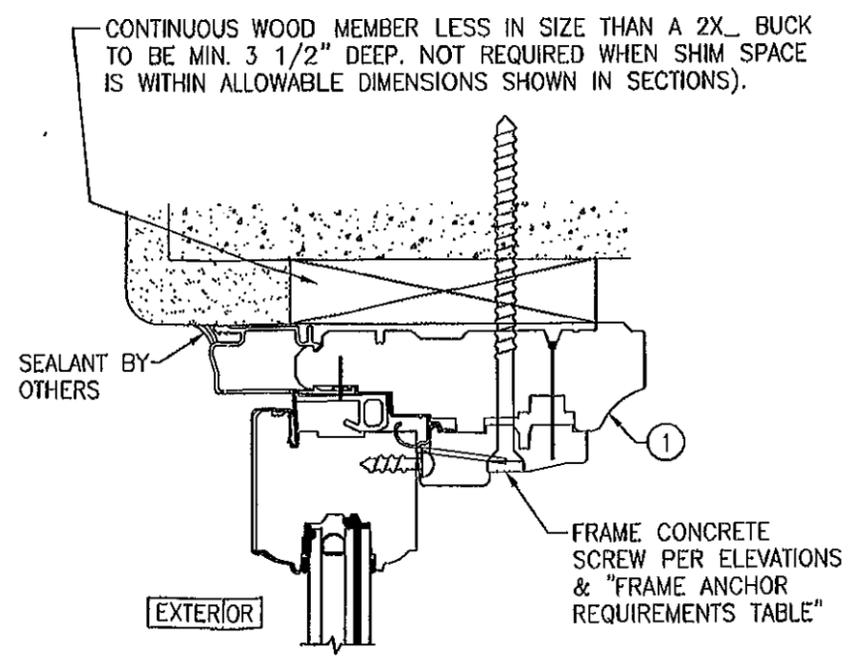
**SECTION C**  
SCALE: 1/2 FULL  
SASH TO FRAME CONDITION 1 & 2

FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



**SECTION D**  
SCALE: 1/2 FULL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS



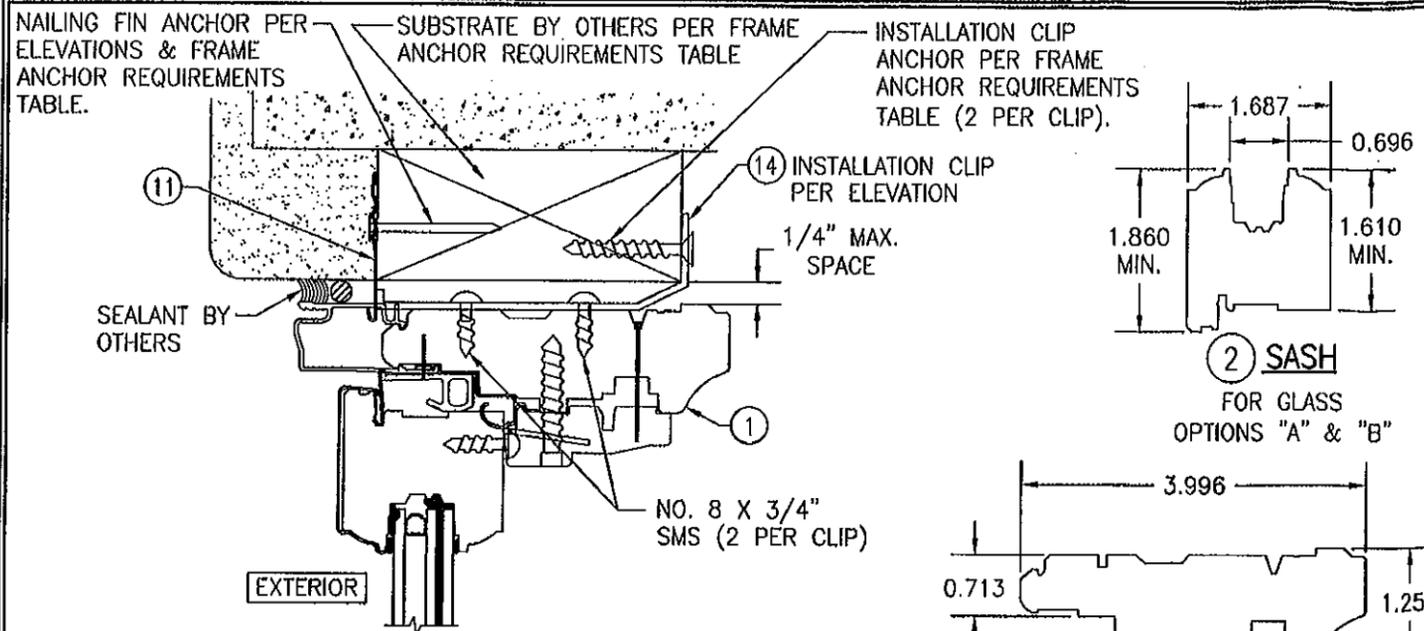
**OPTIONAL DIRECT MOUNT DETAIL TO BLOCK OR CONCRETE WITH SPACER OR SHIM**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT RENEWED as complying with the Florida Building Code  
Acceptance No. 12-0620-12  
Expiration Date 11/8/2017  
By *Warren W. Schaefer*  
Miami Dade Product Control

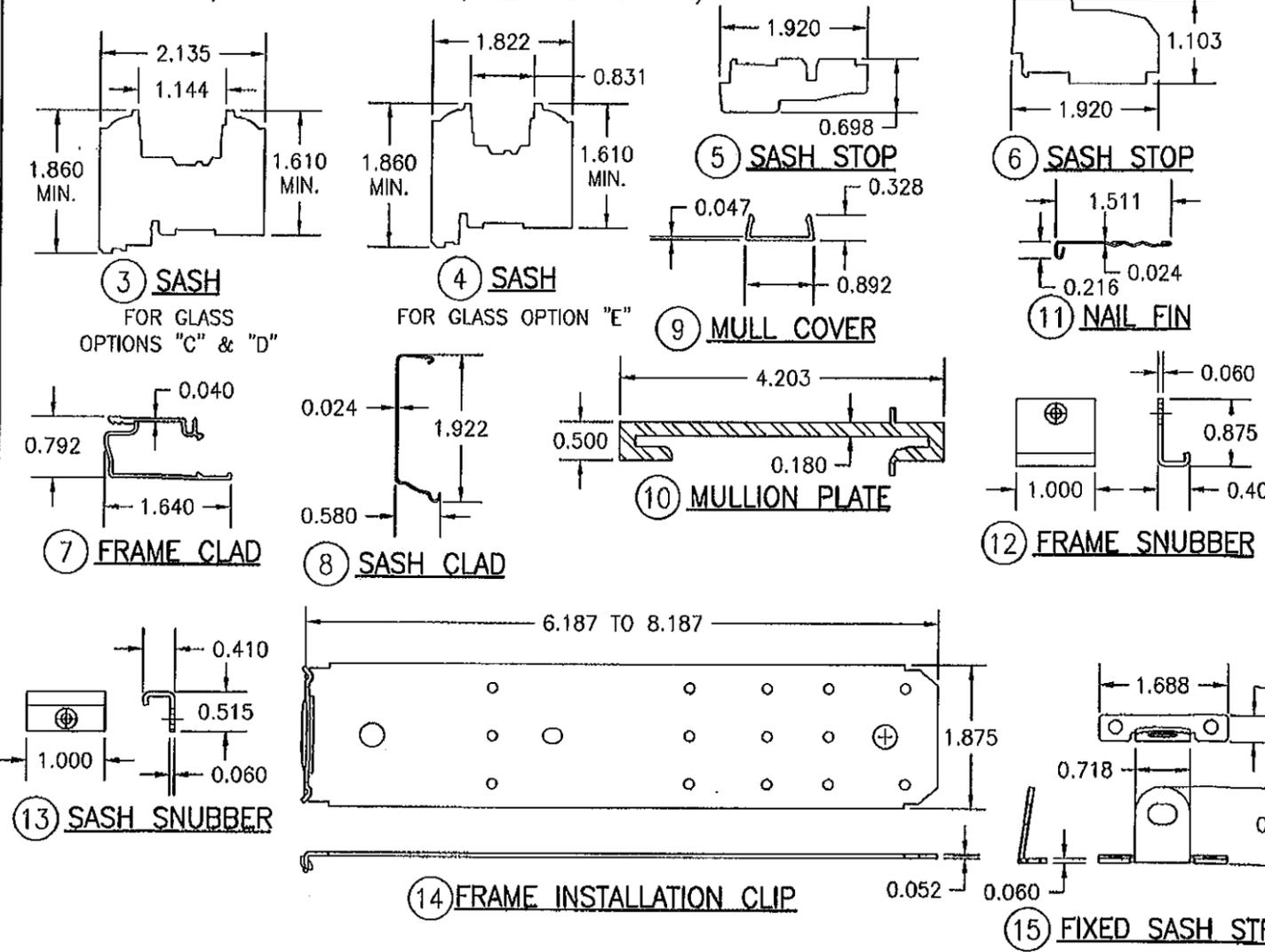
PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No. 11-1026-12  
Expiration Date 11/8/2012  
By *Warren W. Schaefer*  
Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 03/23/07
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE <b>HIG ALUMINUM CLAD IMPACT FIXED CASEMENT WINDOW</b>	
MANUFACTURER <b>PELLA CORPORATION</b> 102 MAIN STREET PELLA, IA 50219 641-621-1000	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	OCT 21 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.
1519	B
SHEET NO.	OF
5	6



**OPTIONAL INSTALLATION CLIP/NAIL FIN DETAIL**  
 (HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	FRAME JAMB	WOOD
2	SASH FOR GLASS OPTION A & B	WOOD
3	SASH FOR GLASS OPTION C & D	WOOD
4	SASH FOR GLASS OPTION E	WOOD
5	SASH STOP	WOOD
6	SASH STOP (VENT SILL)	WOOD
7	FRAME CLAD	6063-T6 ALUMINUM
8	SASH CLAD	3003-H14 ALUMINUM
9	MULLION COVER	6063-T6 ALUMINUM
10	MULLION PLATE	6063-T6 ALUMINUM
11	NAIL FIN	3003-H14 ALUMINUM
12	FRAME SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
13	SASH SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
14	INSTALLATION CLIP	50 KSI GALVANIZED STEEL
15	FIXED SASH STRIKE	AT MAX. 11" O.C. (304 S.S.)
16	SASH SHIM BLOCK	PLASTIC (3 PER SIDE)
HARDWARE		
21	CENTER PIVOT HINGE (USED WITH ROTO OPERATOR)	OVERLAND 1AJC/1AJA WITH GLAZING DETAIL 3; TRUTH 14.97/14.92 WITH GLAZING DETAILS 1 & 2
22	SCISSOR HINGE (USED WITH EGRESS OPERATOR)	PELLA 15EA/15E9 (16 GAGE 302/304 S.S.)
23	ROTO OPERATOR	PELLA #2AAX/2AAY
24	EGRESS OPERATOR	PELLA #2ABA
SEALS & SEALANTS		
29	RAINSTRIIP	PELLA PART #75T2 - PVC DUROMETER 75
30	WEATHERSTRIP	PELLA PART #505J - PP/SANTOPRENE 64
31	FRAME CLAD SEALANT	BUTYL
MISCELLANEOUS FASTENERS		
35	1 3/8" 4D ANNULAR RINGSHANK BOX NAIL	WITHIN 5" OF CORNERS & 4" TO 9" O.C.
36	NO. 7 X 1" FH SCREW	1 PER SNUBBER
37	NO. 7 X 3/4" PH SCREW	1 PER SNUBBER
38	NO. 8 X 3/4" PH SCREW	2 PER SASH STRIKE
39	NO. 14 X 1 1/2" FILISTER HEAD SCREW	1 PER SASH STRIKE

NOTE: WOOD USED IN TESTING WAS WESTERN PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORPORATION TO SELECT.

PRODUCT RENEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No 12-0620.12  
 Expiration Date 11/8/2017  
 By *[Signature]*  
 Miami Dade Product Control

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 11-1026.12  
 Expiration Date Nov. 8, 2012  
 By *[Signature]*  
 Miami Dade Product Control



DRAWN BY: W.R.M. CHECKED BY: W.W.S.  
 PLOT: 1-2 DATE: 03/23/07

DATE BY REVISION DESCRIPTION NO.

DRAWING TITLE: **HIG ALUMINUM CLAD IMPACT FIXED CASEMENT WINDOW**

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

MANUFACTURER: **PELLA**

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

CERTIFICATION: **03/21/2011**  
 WARREN W. SCHAEFER P.E.  
 P.E. NO. 44135

DRAWING NO. **1519** REV. **B**  
 SHEET NO. **6** OF **6**