



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1107
MIAMI, FLORIDA 33130-1563
(305) 375-2902 FAX (305) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.GOV/buildingcode

**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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 "Direct Set" Aluminum Clad Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1287**, titled "Aluminum Clad Wood Direct Set Impact Windows", sheets 1 and 2 of 2, dated 12/20/03 with revision "C1" dated 02/17/10, 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 Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

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 and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

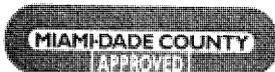
RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

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 revises NOA No. **09-0305.07** 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.**



*J. Gascon
3/31/10*

**NOA No. 10-0223.02
Expiration Date: June 24, 2014
Approval Date: April 21, 2010
Page 1**

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

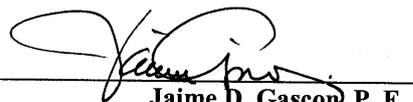
1. Manufacturer's die drawings and sections.
2. Drawing No **1287**, Sheets 1 and 2 of 2, titled "Aluminum Clad Wood Direct Set Impact Windows", dated 12/20/03 with revision "**C1**" dated 02/17/10, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. 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 202-94
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 direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI 97274.01-201-18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Reports No.'s **ATI 97275.01-201-18** and **ATI 97276.01-201-18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
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
along with marked-up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-6691**, dated 12/15/03, signed and sealed by John D. Lee, P. E.
(Submitted under NOA No. 04-0322.11)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 02/23/09, signed and sealed by Warren W. Schaefer, P. E.
Complies with ASTM E1300-04
(Submitted under NOA No. 09-0305.07)


Jaime D. Gascon, P. E.

Chief, Product Control Division

NOA No. 10-0223.02

Expiration Date: June 24, 2014

Approval Date: April 21, 2010

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami-Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

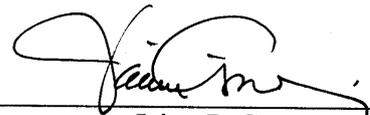
1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **09-0312.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 05/13/09, expiring on 12/11/10.

F. STATEMENTS

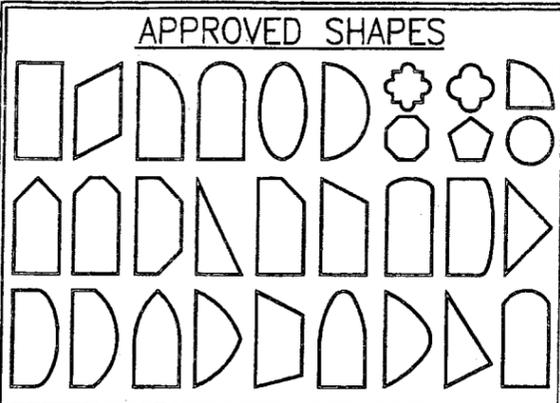
1. Statement letter of conformance, dated February 23, 2009, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under NOA No. 09-0305.07)
2. Statement letter of no financial interest, dated February 23, 2009, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under NOA No. 09-0305.07)

G. OTHERS

1. Notice of Acceptance No. **09-0305.07**, issued to Pella Corporation for their Aluminum Clad Wood Direct Set Window – L.M.I., approved on 07/01/09 and expiring on 06/24/14.



Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 10-0223.02
Expiration Date: June 24, 2014
Approval Date: April 21, 2010



NOTES:

- OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
- ALL UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE LOAD TABLE DIMENSIONS (SEE SHEET 2) & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE UNIT SIZE IN THE LOAD TABLE.

GENERAL NOTES:

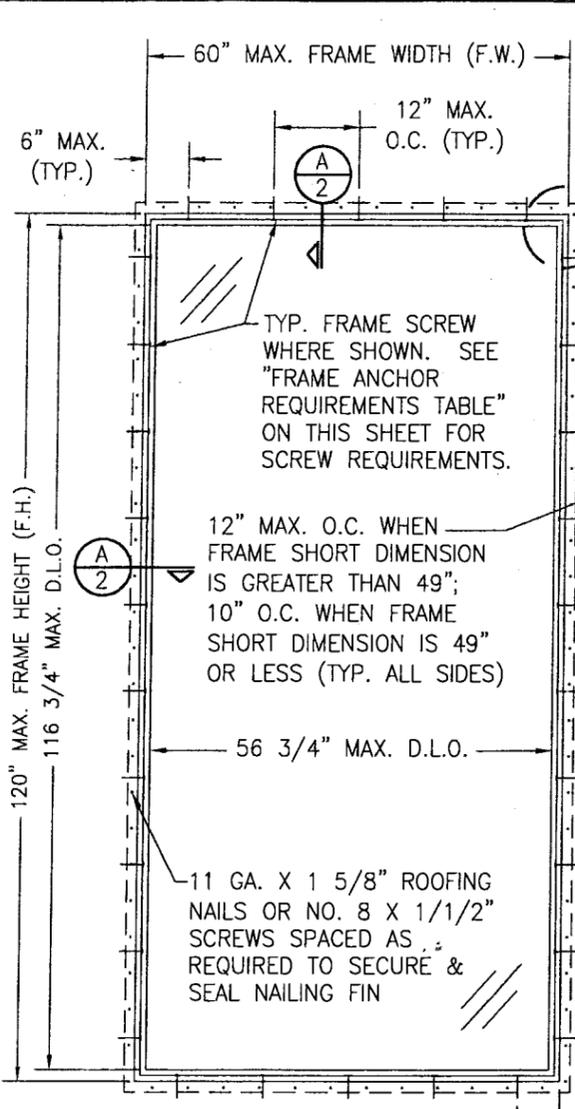
- THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- ALL HARDWARE & FASTENERS SHALL 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.
- 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.
- 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).
- IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
- 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.
- 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 WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
- 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.
- 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.
- 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.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
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"
C-90 CMU/2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"

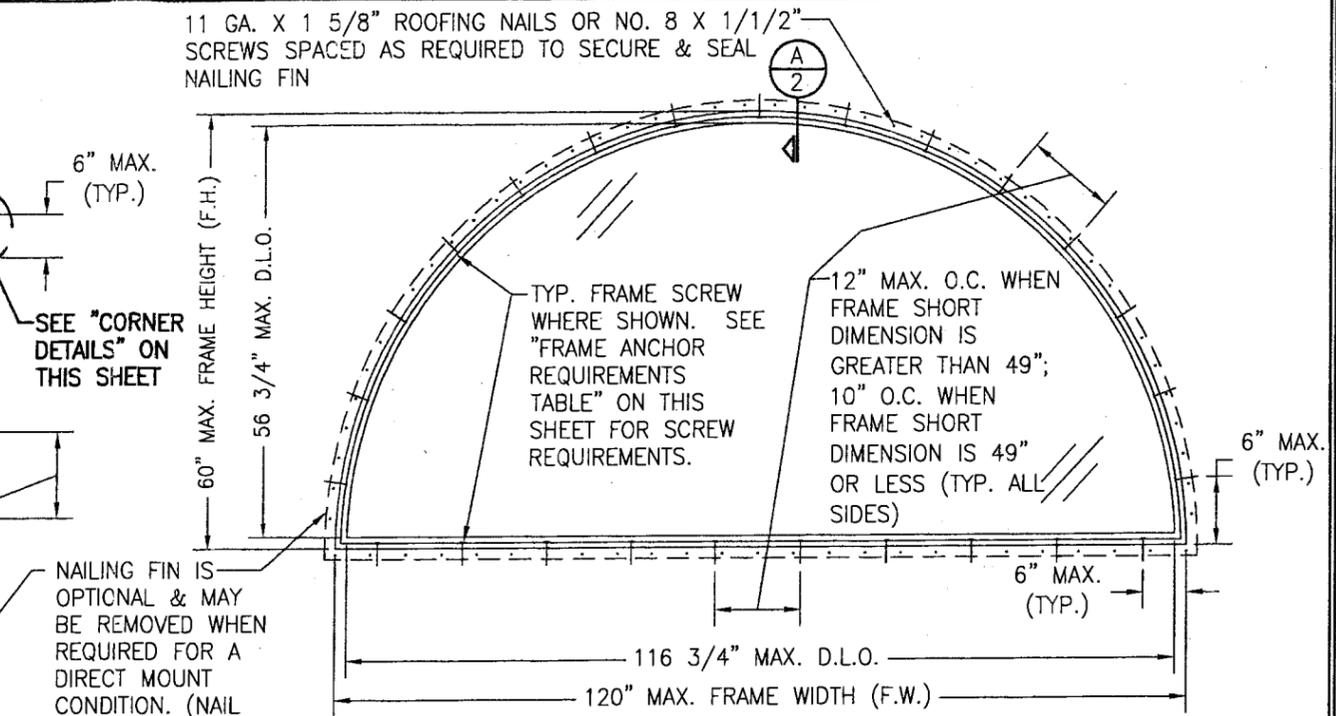
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. **10-0223.02**
 Expiration Date **06/24/2014**
 By *[Signature]*
 Miami Dade Product Control Division

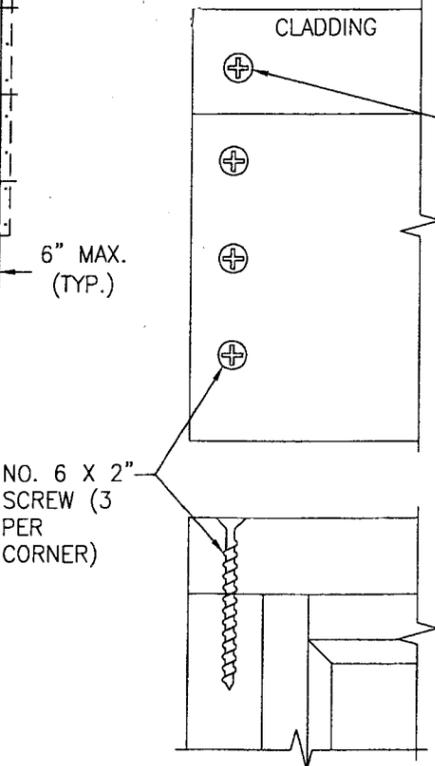


EXTERIOR ELEVATION RECTANGULAR WINDOW
 SCALE: 1/2"=1'-0"

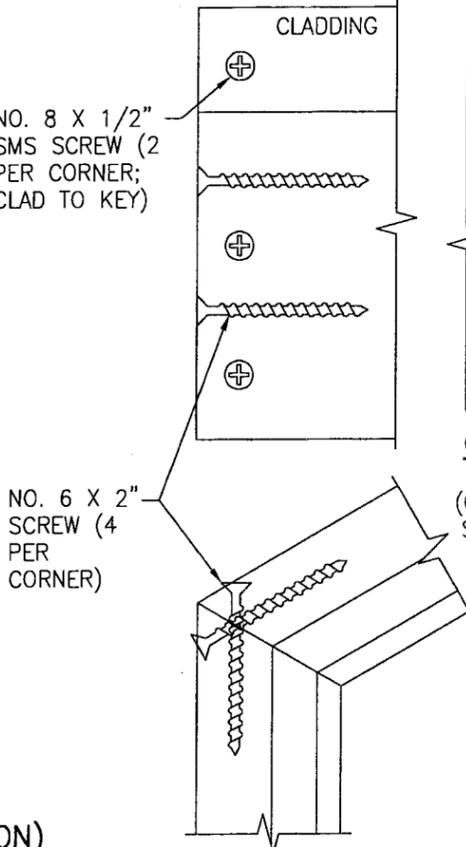
ALLOWABLE DESIGN PRESSURE
 SEE LOAD TABLE ON SHEET 2



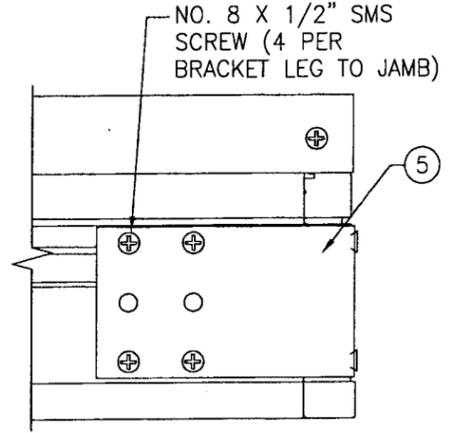
EXTERIOR ELEVATION HALF ROUND WINDOW
 SCALE: 1/2"=1'-0"



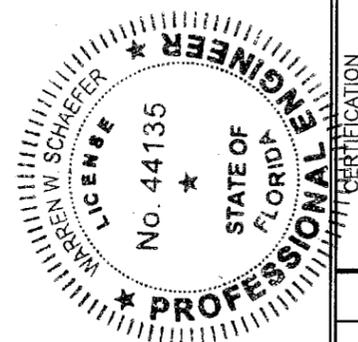
CORNER DETAIL FOR 90° CORNERS (INTERIOR ELEVATION)
 NOT TO SCALE



CORNER DETAIL FOR MITERED CORNERS (INTERIOR ELEVATION)
 NOT TO SCALE



CORNER BRACKET DETAIL
 NOT TO SCALE
 (ONLY REQUIRED WITH WINDOWS OF SIZE 36 SQUARE FEET & LARGER)



DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 12/20/03	
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO 2004 CODE COMPLIANT	WWS	08/09/08
B1	UPDATE TO PRESENT FBC	WWS	02/24/09
C1	CHANGE GLAZING COMPOUND	WWS	02/17/10

ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

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

PELLA

MANUFACTURER

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902 FAX: 561-775-4903

DRAWING TITLE
 ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

CERTIFICATION
 FEB 17 2010

DRAWING NO.
 1287

REV.
 C

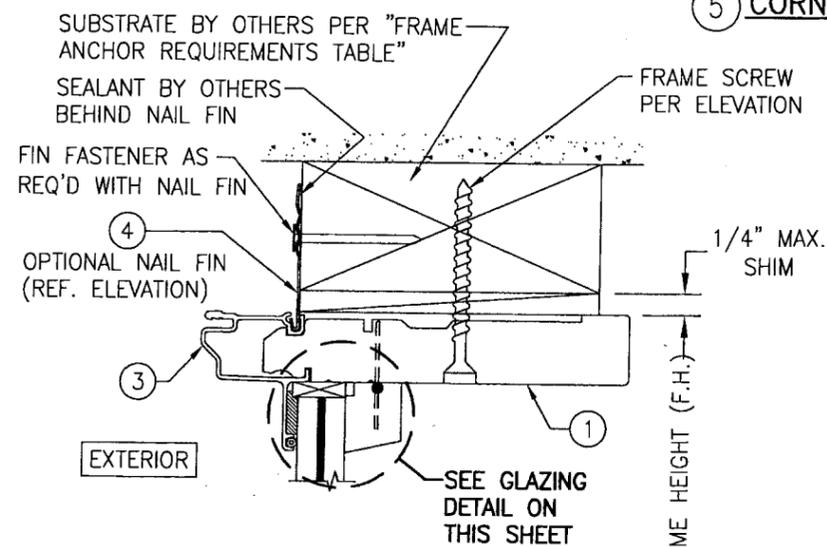
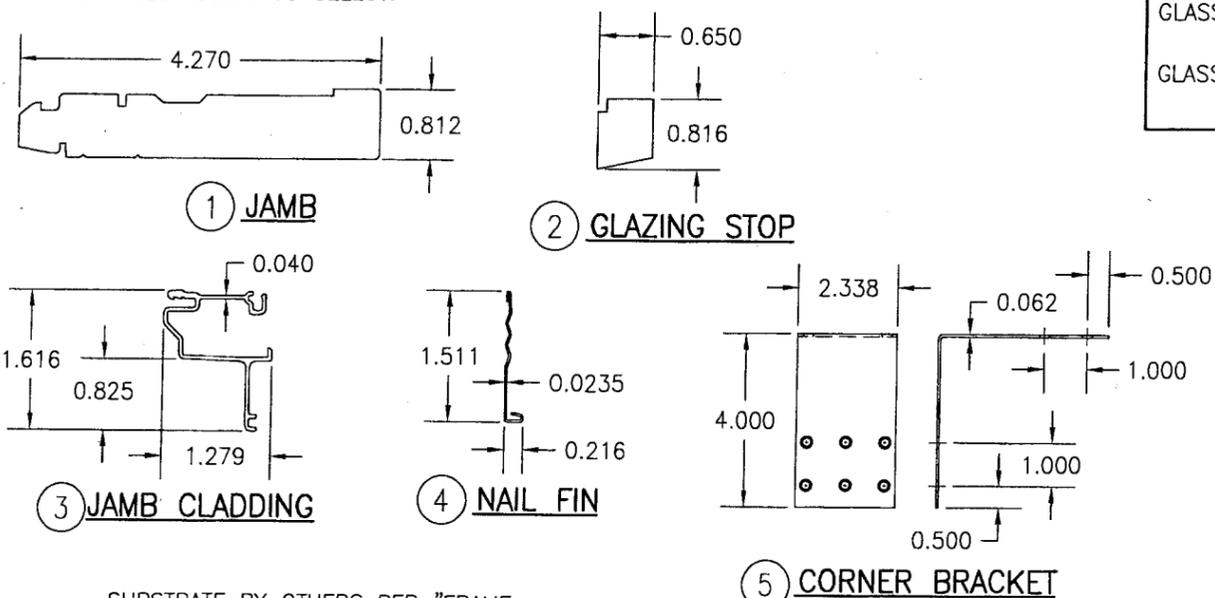
SHEET NO.
 1 OF 2

WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

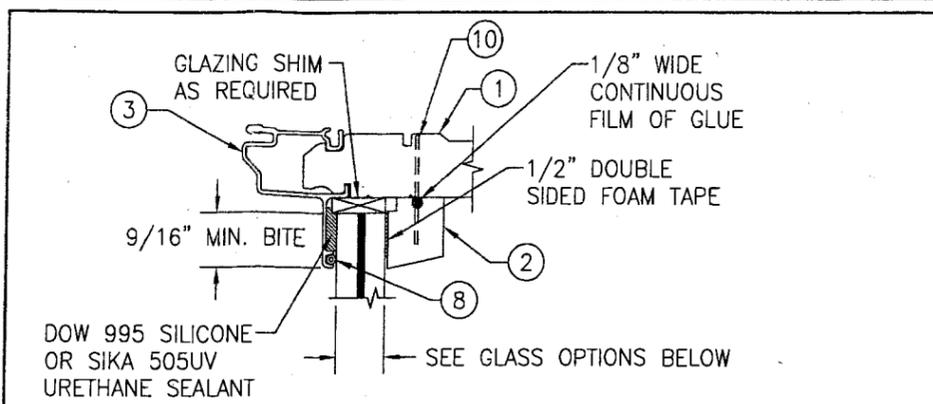
BILL OF MATERIALS

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB	* WOOD
2	GLAZING STOP	* WOOD
3	JAMB CLADDING	6063-T6 ALUMINUM
4	NAIL FIN	.0235" ALUMINUM
5	CORNER BRACKET	MIN. 33 ksi GALV. METAL
SEALS & SEALANTS		
8	BULB GASKET	PVC
MISCELLANEOUS FASTENERS		
10	1/4" X 1 1/8" 18 GA STAPLE	WITHIN 2" - 4" OF CORNERS & 6" O.C.

NOTE:
 * WOOD USED IN TESTING WAS PONDEROSA PINE. 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 CORP. TO SELECT.



SECTION A-A
 SCALE: 1/2 FULL
 HEAD SECTION SHOWN; SIDES & SILL SIMILAR

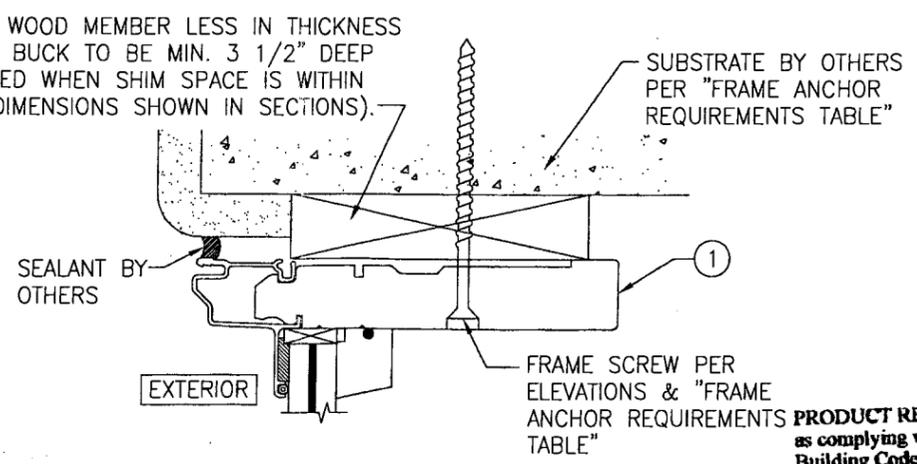


GLAZING DETAIL

GLASS OPTION 1. 9/16" THICK DUPONT SENTRY GLASS LAMINATED GLASS (1/4" AN/0.09" SGP/1/4" AN)

GLASS OPTION 2. 9/16" THICK DUPONT SENTRY GLASS LAMINATED GLASS (1/4" HT. ST./0.09" SGP/1/4" HT. ST.)

GLASS OPTION 3. 7/16" THICK DUPONT BUTACITE PVB LAMINATED GLASS (3/16" AN/0.09" PVB/3/16" AN)



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

WINDOW FRAME DIMENSION		LOAD TABLE					
		ALLOWABLE DESIGN PRESSURE (PSF)					
MAX. SHORT SIDE (IN.)	MAX. LONG SIDE (IN.)	GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3	
		POS	NEG	POS	NEG	POS	NEG
60	120	50.3	50.3	75.0	75.0	N/A	N/A
	108	55.9	55.9	75.0	75.0	N/A	N/A
	96	63.7	63.7	75.0	75.0	N/A	N/A
	90	68.7	68.7	75.0	75.0	N/A	N/A
	84	73.1	73.1	75.0	75.0	N/A	N/A
	78	75.0	75.0	75.0	75.0	N/A	N/A
	72	75.0	75.0	75.0	85.0	N/A	N/A
54	66	75.0	75.0	75.0	85.0	N/A	N/A
	60	75.0	75.0	75.0	85.0	N/A	N/A
	120	56.3	56.3	75.0	75.0	N/A	N/A
	108	61.5	61.5	75.0	75.0	N/A	N/A
	96	69.7	69.7	75.0	75.0	N/A	N/A
	90	74.4	74.4	75.0	75.0	N/A	N/A
	84	75.0	75.0	75.0	85.0	N/A	N/A
48	78	75.0	75.0	75.0	85.0	N/A	N/A
	72	75.0	75.0	75.0	85.0	N/A	N/A
	66	75.0	75.0	75.0	85.0	N/A	N/A
	60	75.0	75.0	75.0	85.0	N/A	N/A
	54	75.0	75.0	75.0	85.0	60.0	60.0
	120	63.6	63.6	75.0	75.0	N/A	N/A
	108	69.8	69.8	75.0	75.0	N/A	N/A
42	96	75.0	75.0	75.0	85.0	N/A	N/A
	90	75.0	75.0	75.0	85.0	N/A	N/A
	84	75.0	75.0	75.0	85.0	N/A	N/A
	78	75.0	75.0	75.0	85.0	N/A	N/A
	72	75.0	75.0	75.0	85.0	60.0	60.0
	66	75.0	75.0	75.0	85.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	60.0	60.0
36	120	75.0	75.0	75.0	85.0	N/A	N/A
	108	75.0	75.0	75.0	85.0	N/A	N/A
	96	75.0	75.0	75.0	85.0	N/A	N/A
	84	75.0	75.0	75.0	85.0	60.0	60.0

N/A = SIZE IS "NOT APPLICABLE" TO THE RESPECTIVE GLASS OPTION & MAY NOT BE USED.

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 12/20/03
DATE	BY
REVISION DESCRIPTION	NO.
ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS MANUFACTURER PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000 	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING TITLE ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS	
PROFESSIONAL ENGINEER WARREN W. SCHAEFER LICENSE NO. 44135 STATE OF FLORIDA FEB 17 2010	
DRAWING NO. 1287	REV. C
SHEET NO. 2 OF 2	

PRODUCT REVISED
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 By 
 Miami Made Product Control
 Division