



BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**NOTICE OF ACCEPTANCE (NOA)**

[www.buldingcodeonline.com](http://www.buldingcodeonline.com)

**C. P. Loewen Enterprises**  
77 P.T.H. 52 West, Box 2260  
Steinbach, Manitoba, Canada R2G 1B2

**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: Aluminum Clad Wood Fixed Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 1095, titled "Aluminum Clad Wood Impact Fixed Casement Windows", sheets 1 through 4 of 4, dated 04/24/02 with revision #A5 dated 09/15/03, 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 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 renews NOA # 03-0929.03 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 **Manuel Perez, P.E.**



NOA No. 07-0130.20  
Expiration Date: August 15, 2012  
Approval Date: April 05, 2007  
Page 1

**C.P. Loewen Enterprises**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **1095**, Sheets 1 through 4 of 4, titled "Aluminum Clad Wood Impact Fixed Casement Windows", dated 04/24/02 with revision #A5 dated 09/15/03, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS**

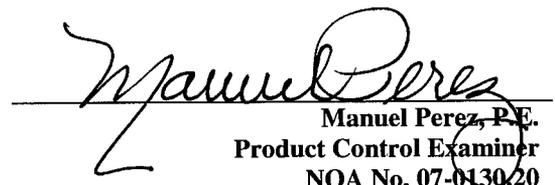
1. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum clad wood impact outswing casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0286-1222-01**, dated 12/6/01, signed and sealed by Vinu Abraham, P.E. (*Submitted under NOA # 02-0503.08*)

**C. CALCULATIONS**

1. Certification of anchor calculations complying with FBC-2004, prepared by W.W. Schaefer Engineering & Consulting, dated 01/22/07, signed and sealed by Warren W. Schaefer, P.E.
2. **Complies with ASTM E1300-98**
3. Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, dated 9/15/03, signed and sealed by Warren Schaefer, P. E. (*Submitted under NOA # 03-0929.03*)
4. Anchor Calculations and structural analysis, prepared by Warren Schaefer, P.E., dated 4/24/02, signed and sealed by Warren Schaefer, P.E. (*Submitted under NOA # 02-0503.08*)

**D. QUALITY ASSURANCE**

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

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 07-0130.20  
Expiration Date: August 15, 2012  
Approval Date: April 05, 2007

C.P. Loewen Enterprises

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **03-0417.01** issued to Cardinal LG for “Laminated Glass Cardinal Sea-Storm Type B” dated 05/15/03, expiring on 12/30/07.
2. Notice of Acceptance No. **06-1205.10** issued to E.I. DuPont DeNemours & Co., Inc. for their “DuPont Sentry Glass ® Plus” dated 02/15/07, expiring on 01/14/08.

**F. STATEMENTS**

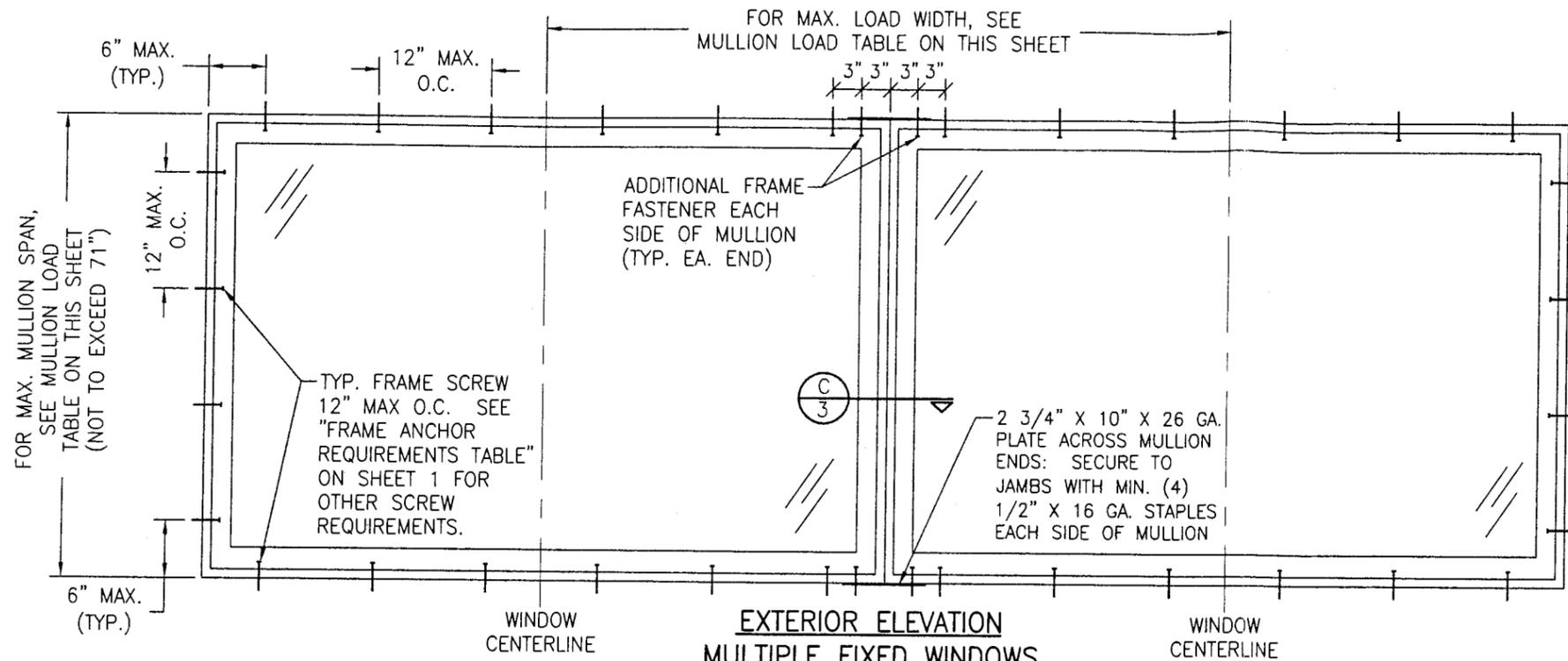
1. Statement letter of conformance, dated January 22, 2007, signed and sealed by Warren W. Schaefer, P.E.

**G. OTHER**

1. Notice of Acceptance No. **03-0929.03**, issued to C. P. Loewen Enterprises for their Aluminum Clad Wood Fixed Window, approved on 11/27/03 and expiring on 08/15/07.

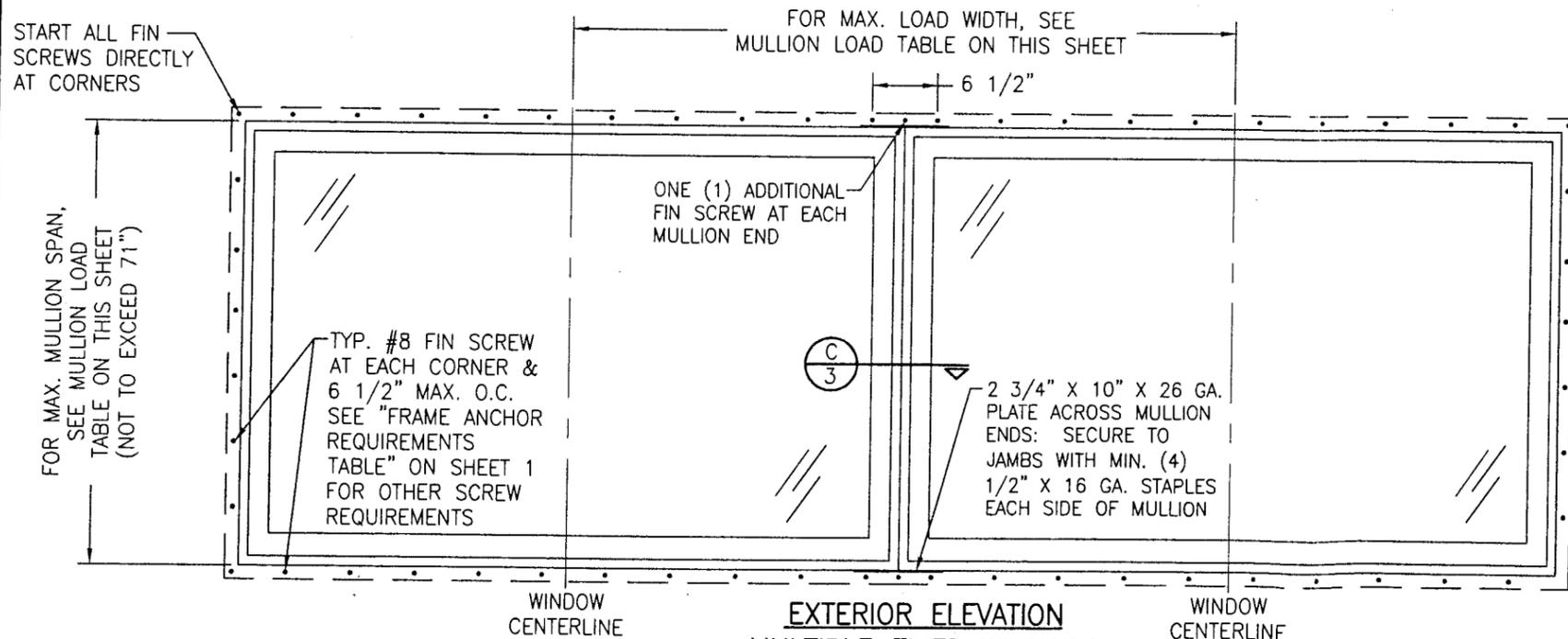
  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 07-0130.20  
Expiration Date: August 15, 2012  
Approval Date: April 05, 2007





(MAX. FOUR WINDOWS MAY BE COMBINED IN ONE OPENING & STACKED HORIZONTALLY OR VERTICALLY)

SCALE: 3/4" = 1'-0"  
 (SHEAR SCREW MOUNT CONDITION SHOWN; SEE OTHER MULTIPLE  
 FIXED WINDOW ELEVATION FOR APPLICABLE FIN MOUNT CONDITION)  
 (FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)



(MAX. FOUR WINDOWS MAY BE COMBINED IN ONE OPENING & STACKED HORIZONTALLY OR VERTICALLY)

SCALE: 3/4" = 1'-0"  
 (FIN MOUNT CONDITION SHOWN; SEE OTHER MULTIPLE FIXED WINDOW  
 ELEVATION FOR APPLICABLE SHEAR SCREW MOUNT CONDITION)  
 (FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)

MULLION LOAD TABLE			
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	(1) ALLOWABLE PRESSURE (PSF)	
		POSITIVE	NEGATIVE
71"	71"	56.3	60.6
	66"	56.5	60.9
	60"	57.6	62.1
	54"	59.7	64.3
	48"	62.9	67.7
68"	45"	65.0	70.0
	(2) 68" & LARGER	61.3	66.1
	66"	61.4	66.1
	60"	62.2	67.0
	54"	64.0	69.0
66"	(2) 66" & LARGER	65.0	70.0

- (1) THE LESSER OF THE ALLOWABLE INDIVIDUAL WINDOW PRESSURE & THE MULLION PRESSURE SHALL CONTROL AS THE ALLOWABLE PRESSURE ON THE ENTIRE MULLED UNIT.
- (2) DUE TO TRIANGULAR LOAD DISTRIBUTION, ALLOWABLE PRESSURE FOR UNITS WHEN LOAD WIDTH IS GREATER THAN MULLION SPAN SHALL EQUAL THE ALLOWABLE PRESSURE ON THAT UNIT WHERE LOAD WIDTH EQUALS MULLION SPAN.
- (3) MAXIMUM INDIVIDUAL WINDOW SIZE IS AS SPECIFIED IN SINGLE WINDOW ELEVATIONS ON SHEET 1.

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 03-0929-03  
 Expiration Date 08/15/03

By *Manuel Perez*  
 Miami Dade Product Control  
 Division

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 07-0130-20  
 Expiration Date AUG 15, 2012

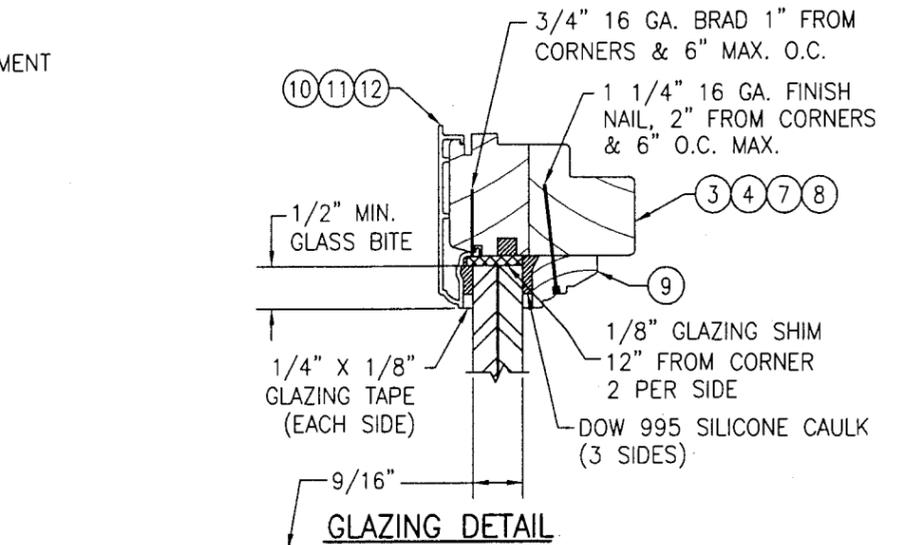
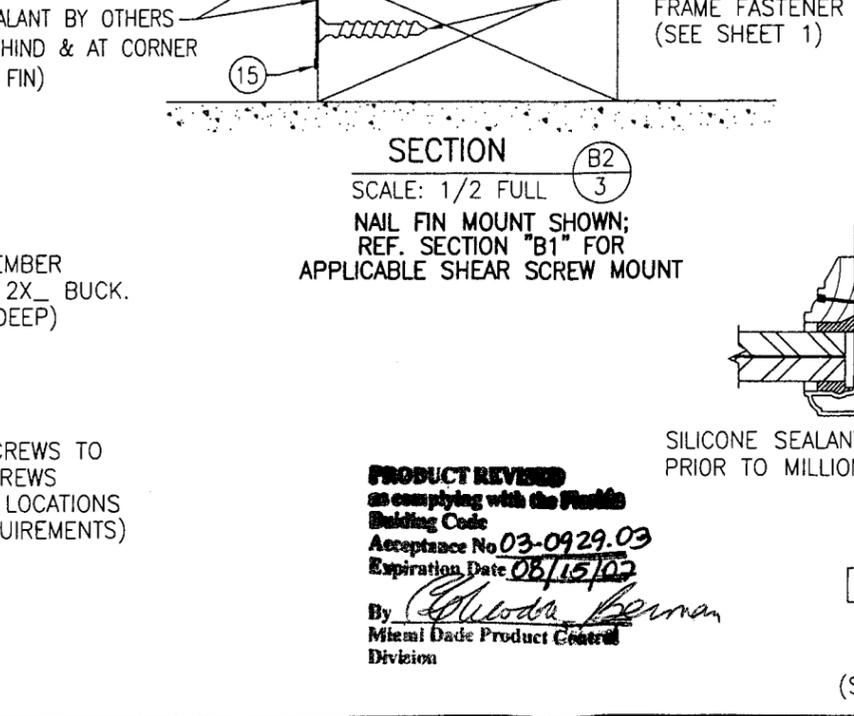
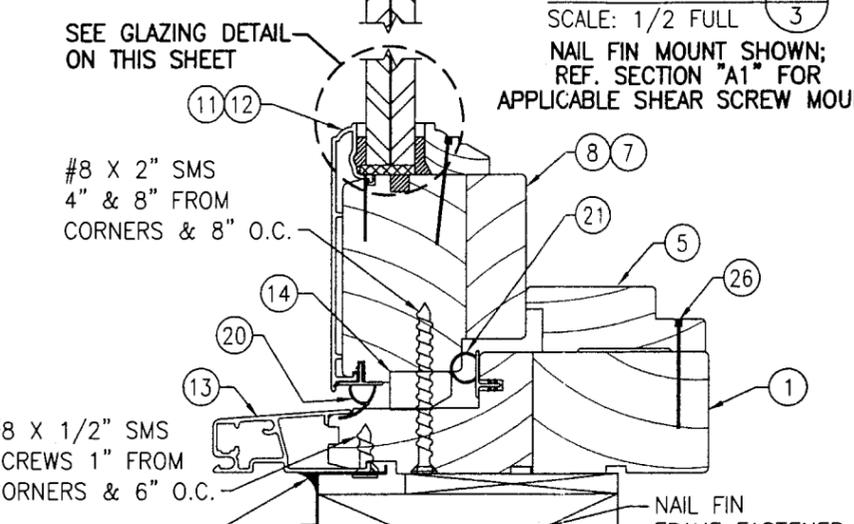
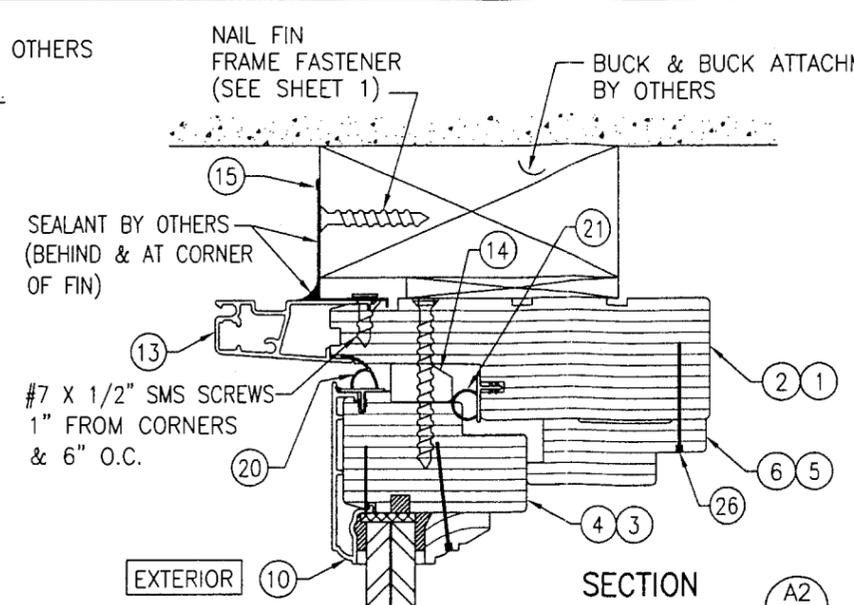
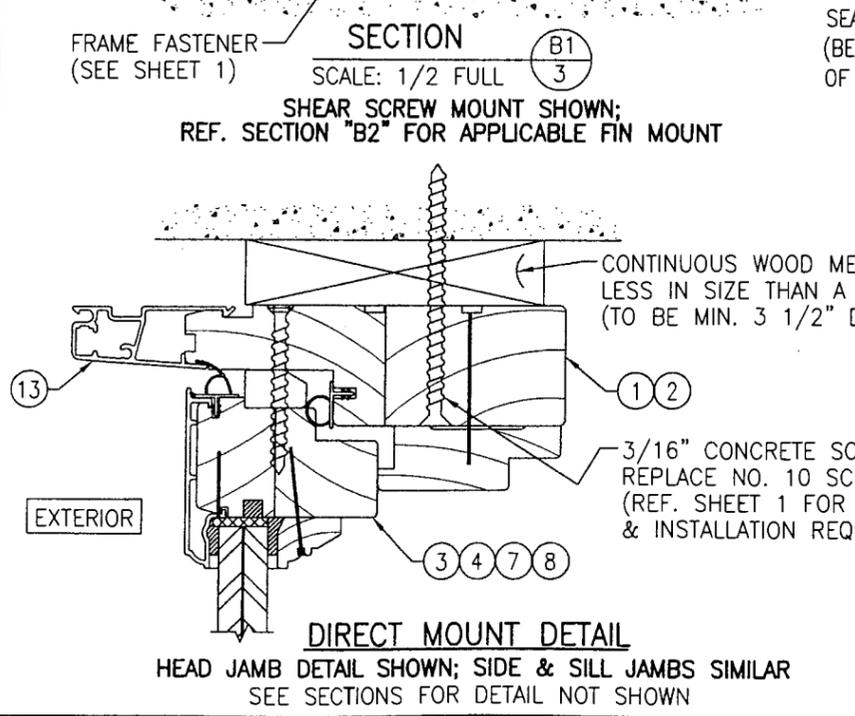
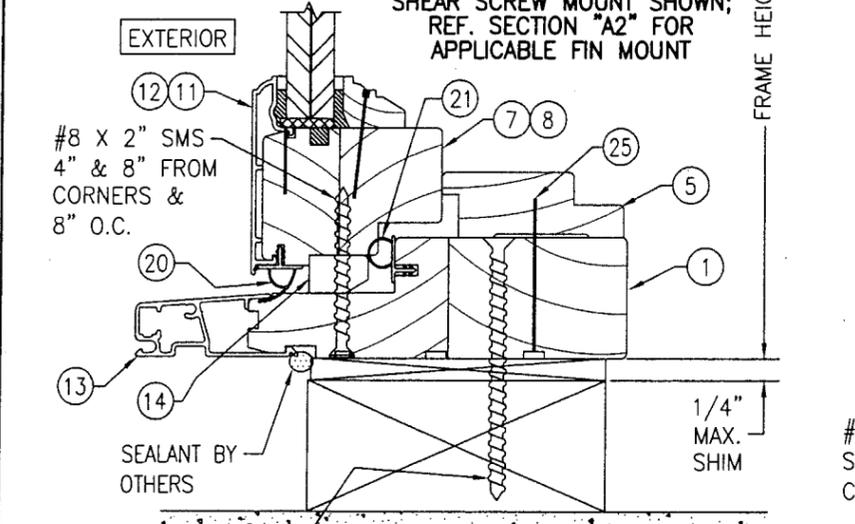
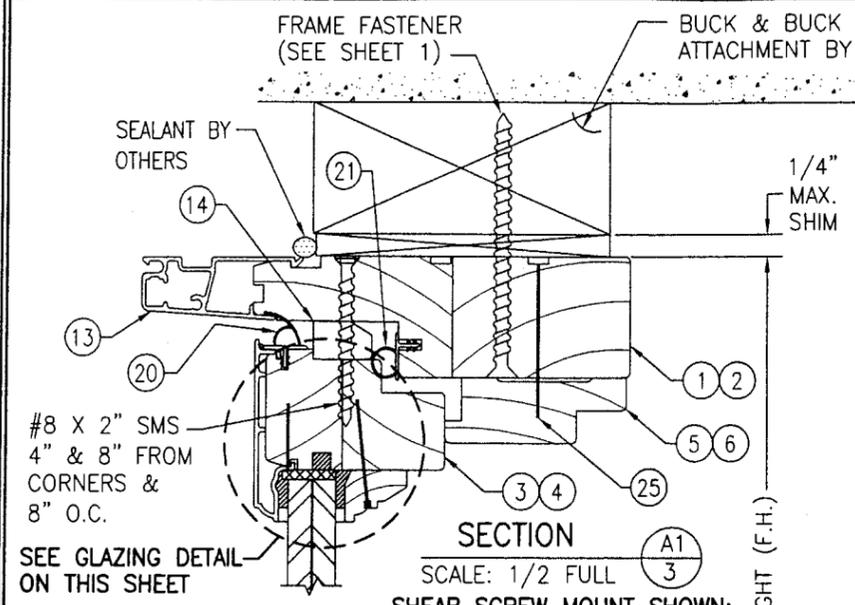
By *Manuel Perez*  
 Miami Dade Product Control  
 Division

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/24/02
DATE	BY
REVISION DESCRIPTION	NO.

DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOWS  
 MANUFACTURER: C.P. LOEWEN ENTERPRISES  
 77 P.T.H 52 WEST, BOX 2260  
 STEINBACH, MB CANADA ROA 2A0  
 204-326-6446

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

CERTIFICATION: SEP 19 2003  
 DRAWING NO. 1095  
 SHEET NO. 2 OF 4  
 REV. A

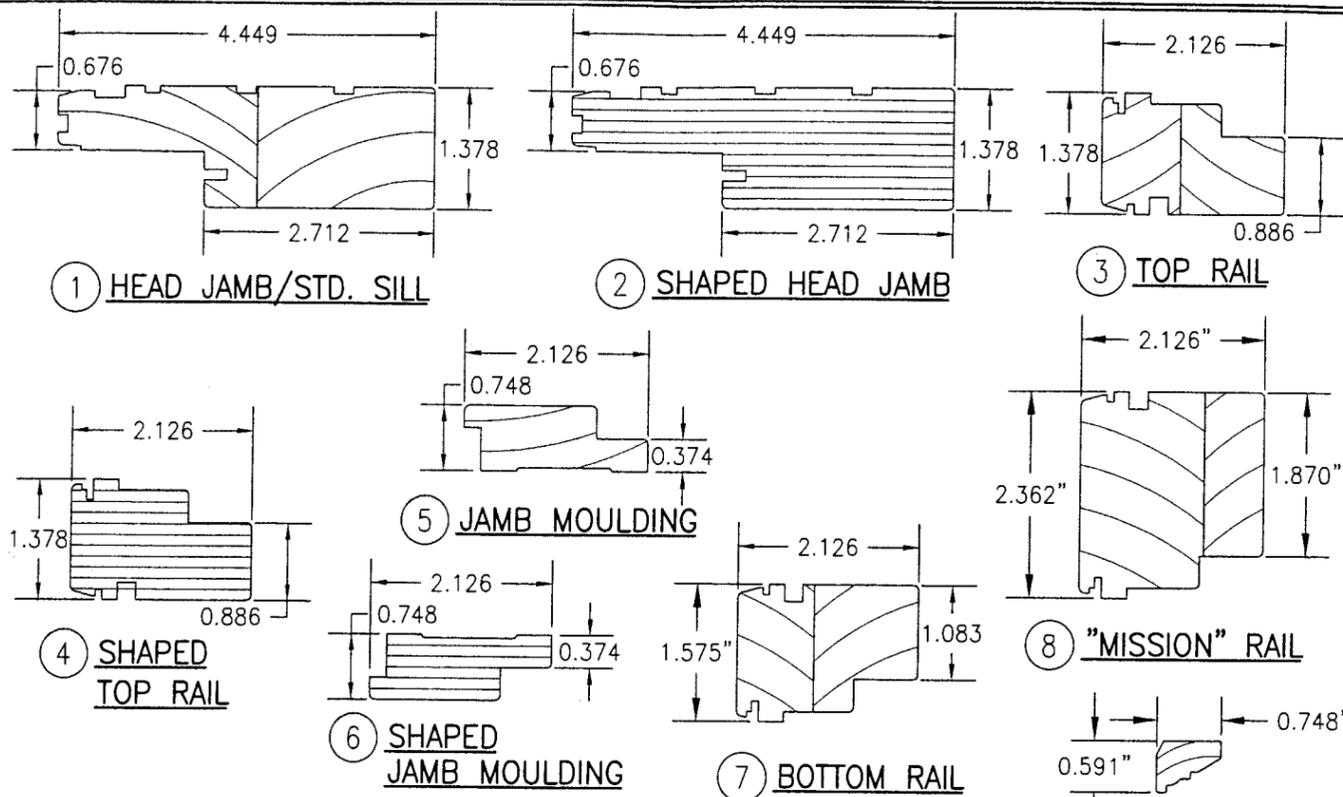


- GLAZING DETAIL**
- OPTION 1) CARDINAL SGP LAMINATED GLASS: 9/16" THICK OVERALL (1/4" AN./0.090" SGP/1/4" AN.)
  - OPTION 2) CARDINAL SGP LAMINATED GLASS: 9/16" THICK OVERALL (1/4" HT. ST./0.090" SGP/1/4" HT. ST.)
  - OPTION 3) CARDINAL SEA STORM TYPE "B" LAMINATED GLASS: 9/16" THICK OVERALL (1/4" AN./0.015" PVB/0.007 PET/0.075" PVB/1/4" AN.) OR (1/4" AN./0.045" PVB/0.007 PET/0.045" PVB/1/4" AN.)

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 03-0929.03  
 Expiration Date 08/15/10  
 By *Elisavinda Herman*  
 Miami Dade Product Control  
 Division

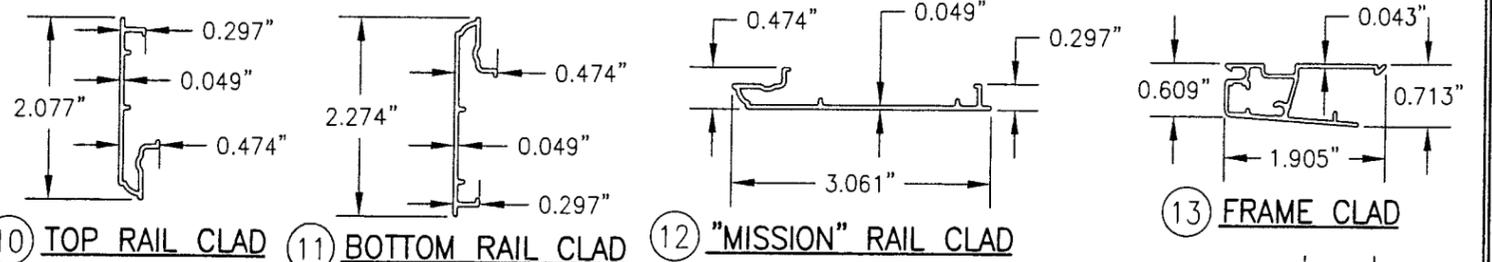
**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 07-0130.20  
 Expiration Date 06/15/2012  
 By *Manuel Perez*  
 Miami Dade Product Control  
 Division

DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/24/02	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOWS			
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		MANUFACTURER: C.P. LOEWEN ENTERPRISES 77 P.T.H 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446	
CERTIFICATION: SEP 19 2003 WARREN W. SCHAEFER, P.E. P.L. NO. 44135			
DRAWING NO. 1095		REV. A	
SHEET NO. 3		OF 4	



ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	2824/2826	HEAD JAMB/STANDARD SILL (LINEAL MEMBER)	* WOOD
2	2824	HEAD JAMB (RADIAL MEMBER)	LVL
3	2806	TOP RAIL (LINEAL MEMBER)	* WOOD
4	2806	TOP RAIL (RADIAL MEMBER)	LVL
5	2834/2836	HEAD/SIDE JAMB MOULDING (LINEAL MEMBER)	* WOOD
6	2834	HEAD JAMB MOULDING (RADIAL MEMBER)	LVL
7	2808	STANDARD BOTTOM RAIL	* WOOD
8	2880	"MISSION" BOTTOM RAIL	* WOOD
9	4493	INTERIOR GLAZING STOP	* WOOD
10	2856	TOP RAIL CLAD	6060-T5 ALUMINUM
11	2858	BOTTOM RAIL CLAD	6060-T5 ALUMINUM
12	2886	"MISSION" BOTTOM RAIL CLAD	6060-T5 ALUMINUM
13	4930	FRAME CLAD	6060-T5 ALUMINUM
14	2894	FIXED SASH SHIM	* WOOD
15	4940	APPLIED NAILING FIN	STEEL (Fy = 50 ksi MIN.)
16	4950	EXTERIOR MULLION COVER	6060-T5 ALUMINUM
SEALS & SEALANTS			
20	2868	SASH WEATHERSTRIP	INTEK #50345
21	2866	FRAME WEATHERSTRIP	INTEK #30508A
FASTENERS			
25	-	1 3/4" X 16 GA. STAPLE	6" FROM CORNERS & 6" O.C.
26	-	1 1/4" FINISH NAIL	2" FROM CORNERS & 6" O.C.

\* WOOD USED WITH TEST UNITS WAS GRADE 2 NORTHERN DOUGLAS FIR. ALTERNATE WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, OAK, CHERRY, MAPLE & CYPRUS.  
 NOTE: ALL WOOD IS RECEIVED BY LOEWEN WINDOWS AS GRADE 2, BUT IS MACHINED BY LOEWEN TO A SELECT GRADE USE.



**ALLOWABLE DESIGN PRESSURE WITH 9/16" ANNEALED SGP LAMINATED GLASS (1/2" GLASS) (GLAZING OPTION 1)**

(1) SHORT DIMENSION	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF)										
	36"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	69.4	64.8		
54"	70.0	70.0	70.0	70.0	70.0	64.6	61.7	56.3			
60"	70.0	70.0	70.0	65.8	60.3	56.9	54.0				
63"	70.0	70.0	68.7	62.1	57.5	53.7	51.0				
66"		66.8	64.5	59.8	55.1	50.7					
72"			58.8	54.4							
(1) LONG DIMENSION	60"	66"	72"	78"	84"	90"	94.5"	108"	120"	132"	144"

**ALLOWABLE DESIGN PRESSURE WITH 9/16" HT. ST. SGP LAMINATED GLASS (1/2" GLASS) (GLAZING OPTION 2)**

(1) SHORT DIMENSION	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF)										
	36"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
54"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0			
60"	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
63"	70.0	70.0	70.0	70.0	70.0	70.0					
66"		66.8	66.8	66.8	66.8	66.8					
72"			61.3	61.3							
(1) LONG DIMENSION	60"	66"	72"	78"	84"	90"	94.5"	108"	120"	132"	144"

**ALLOWABLE DESIGN PRESSURE WITH 9/16" ANNEALED SEASTORM LAMINATED GLASS (GLAZING OPTION 3; 1/2" GLASS)**

(1) SHORT DIMENSION	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF)										
	24"	70.0	70.0	70.0	70.0	70.0	70.0	70.0			
30"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0		
36"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0		
42"	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
47.25"	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
54"	61.3	61.3	61.3	61.3							
60"	55.1	55.1	55.1								
66"		50.1									
(1) LONG DIMENSION	60"	66"	72"	78"	84"	90"	94.5"	108"	120"		

TABLE NOTES:  
 (1) ALL WINDOW DIMENSION VALUES SHOWN ARE +/- 3/4" & ARE FRAME (F.H. & F.W.) DIMENSIONS  
 (2) THOSE SIZES WITH LOADS LISTED ARE MAXIMUM ALLOWABLE SIZES AT THAT LOAD. IF NO LOAD IS LISTED FOR A GIVEN SIZE, THAT SIZE EXCEEDS ALLOWABLE AND IS NOT ACCEPTABLE.

DRAWN BY: J.C.F. CHECKED BY: W.W.S.  
 PLOT: 1=2 DATE: 04/24/02

DATE BY REVISION DESCRIPTION NO.

ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOWS

MANUFACTURER: C.P. LOEWEN ENTERPRISES  
 77 P.T.H 52 WEST, BOX 2260  
 STEINBACH, MB CANADA ROA 2A0  
 204-326-6446

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 IMPACT FIXED CASEMENT WINDOWS

CERTIFICATION: 2  
 SEP 19 2003  
 By: Warren W. Schaefer, P.E.  
 P.E. NO. 44135

PRODUCT REVIEWED as complying with the Florida Building Code  
 Acceptance No 07-013D.20  
 Expiration Date: AUG. 15, 2011  
 By: Manuel Perez  
 Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No 03-0929.03  
 Expiration Date: 08/15/10  
 By: [Signature]  
 Miami Dade Product Control Division

DRAWING NO. 1095 REV. A  
 SHEET NO. 4 OF 4