



**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)

**C.P. Lowen Enterprises
77 P.T.H. 52 West Box 2260
Stein Bach, Manitoba, Canada ROA 2A0**

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Clad Wood Fixed Window

APPROVAL DOCUMENT: Drawing No. 1095, titled "Aluminum Clad Wood Impact Fixed Casement Windows", sheets 1 through 3, dated 4/24/02, with revision date 09/15/03, prepared, signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

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 # 02-0503.08, and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**



**NOA No 03-0929.03
Expiration Date: August 15, 2007
Approval Date: November 27, 2003
Page 1**

C.P. Loewen Enterprises

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1095**, titled "Aluminum Clad Wood Impact Fixed Casement Windows", sheets 1 through 3, dated 4/24/02, with revision date 09/15/03, prepared, signed and sealed by Warren 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. 0286-1222-01, dated 12/6/01, signed and sealed by Vinu Abraham, P.E. **"Submitted under NOA # 02-0503.08"**

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by W.W Schaefer Engineering & Consulting, dated 4/24/02, signed and sealed by Warren Schaefer, P.E. **"Submitted under NOA # 02-0503.08"**
2. Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, dated 9/15/03, signed and sealed by Warren Schaefer, P. E.
3. Complies with ASTM-E1300-98

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **01-0206.22** issued to Cardinal LG for "Cardinal Sea-Storm Type B" dated 4/5/01, expiring on 12/30/02.

E. QUALITY ASSURANCE

1. Miami-Dade County Building Code Compliance Office.

F. STATEMENTS

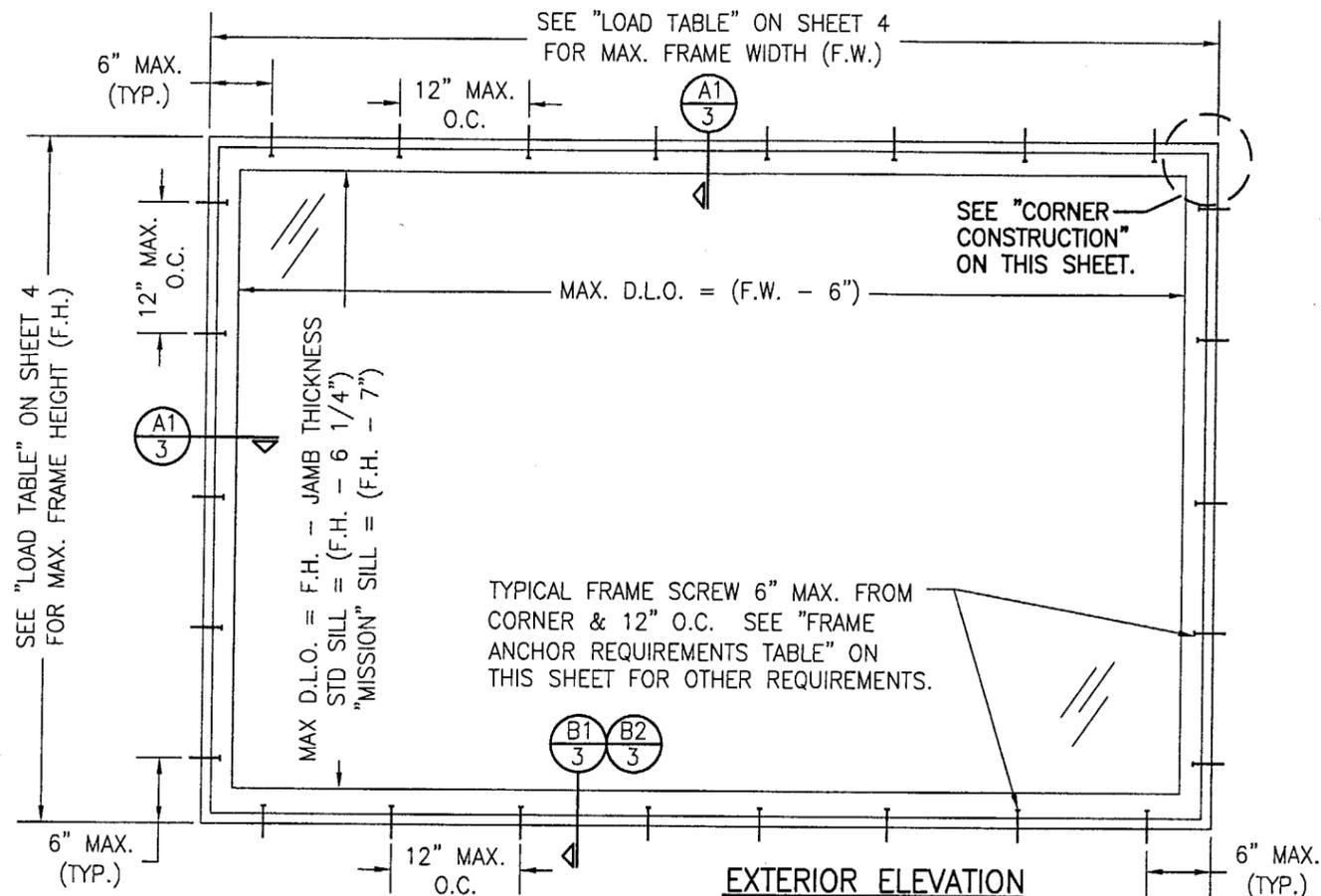
1. Statement letter of no financial interest, dated 2/14/02, signed and sealed by Warren Schaefer, P.E.

G. OTHER

1. Letter from consultant stating that the product is in compliance with the Florida Building Code (FBC).

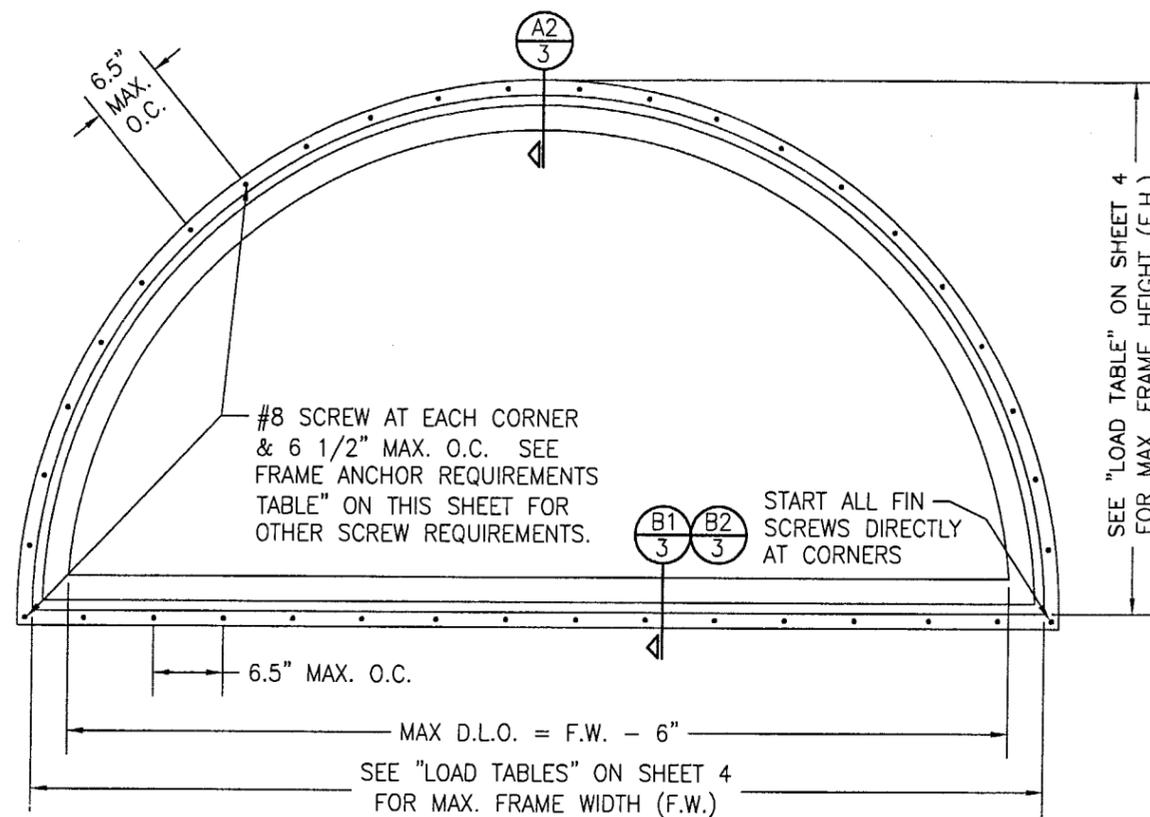


Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-0929.03
Expiration Date: August 15, 2007
Approval Date: November 27, 2003



**EXTERIOR ELEVATION
RECTANGULAR WINDOW**
(SHEAR SCREW MOUNT SHOWN; OPTIONAL
NAIL FIN MOUNT APPLICABLE)

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



**EXTERIOR ELEVATION
HALF ROUND WINDOW**
(OPTIONAL NAIL FIN MOUNT SHOWN;
SHEAR SCREW MOUNT APPLICABLE)

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

CORNER CONSTRUCTION:

SASH (LINEAL TO LINEAL):

WOOD MEMBERS ARE JOINED BY A MORTISE AND TENON JOINT AND MECHANICALLY FASTENED USING TWO (2) 16 GA. 1 1/4" FINISH NAILS PER CORNER.

SASH (RADIAL TO LINEAL):

MECHANICALLY WOOD MEMBERS ARE MITER CUT, BUTTED TOGETHER AND FASTENED USING TWO (2) #6 X 2" PH WS; ONE INTO EACH MEMBER.

SASH CLAD:

THE SASH CLADDING IS SNAPPED ONTO MEMBER AND FASTENED USING 16 GA. X 3/4" BRAD NAILS 1" FROM CORNERS & 6" O.C. THEN SEALED WITH TREMFLEX 834.

JAMB:

WOOD MEMBERS ARE COPED, SEALED, BUTTED TOGETHER AND MECHANICALLY FASTENED USING THREE (3) 1 3/4" 16 GA. STAPLES HORIZONTALLY AND TWO (2) 1 3/4" 16 GA. STAPLES VERTICALLY. SCHNEE-MOREHEAD SM7100 CAULK IS APPLIED TO THE SEAM PRIOR TO JOINING THE WOOD MEMBERS.

JAMB CLADDING:

THE JAMB CLADDING IS MITERED, SNAPPED INTO PLACE OVER A BEAD OF SEALANT, GASKETED WITH A 1/16" THICK CLOSED CELL FOAM THEN BUTTED TOGETHER AND MECHANICALLY FASTENED USING ONE (1) #6 X 1 1/2" S.M.S. PER CORNER. TREMFLEX 834 IS THEN APPLIED TO THE CLAD SEAM.

GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE.
2. BUCKING, OPENINGS & 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 & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (F.B.C.) FOR HIGH VELOCITY HURRICANE ZONE AREAS.
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.

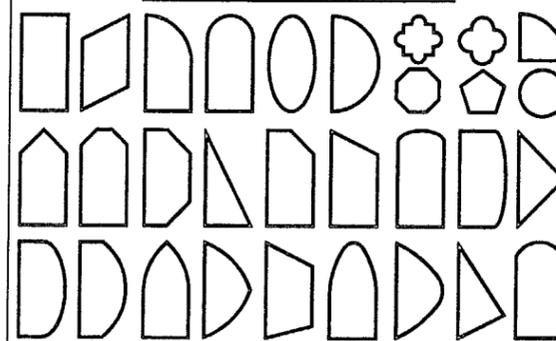
FOR ALLOWABLE DESIGN WIND PRESSURE ON
WINDOWS, SEE LOAD TABLES ON SHEET 4.

FRAME ANCHOR REQUIREMENTS TABLE

* SHEAR SCREWS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 10 SMS SCREW	1 3/8"	3/4"
CMU/CONCRETE	(1) 3/16" CONCRETE SCREWS	1 1/4"	1 7/8"
FIN SCREWS			
2X_ WOOD FRAME OR BUCK	NO. 8 SMS SCREW	1 3/8"	3/4"
(1) CONCRETE SCREWS SHALL BE ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER. (HARDENED STEEL OR S.S.)			

* SHEAR SCREW ANCHOR NOTE: FRAME MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A CONTINUOUS WOOD SPACER, OR ANCHORED TO A MIN. 2x4 NO. 3 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED TO A 2x4 BUCK, NO. 10 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 3/16" CONCRETE SCREWS SHALL BE USED. SEE "FRAME ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS. PROPER MATERIAL SHALL BE USED BETWEEN ALL DISIMILAR MATERIALS (BLOCK/CONCRETE & ALUMINUM).

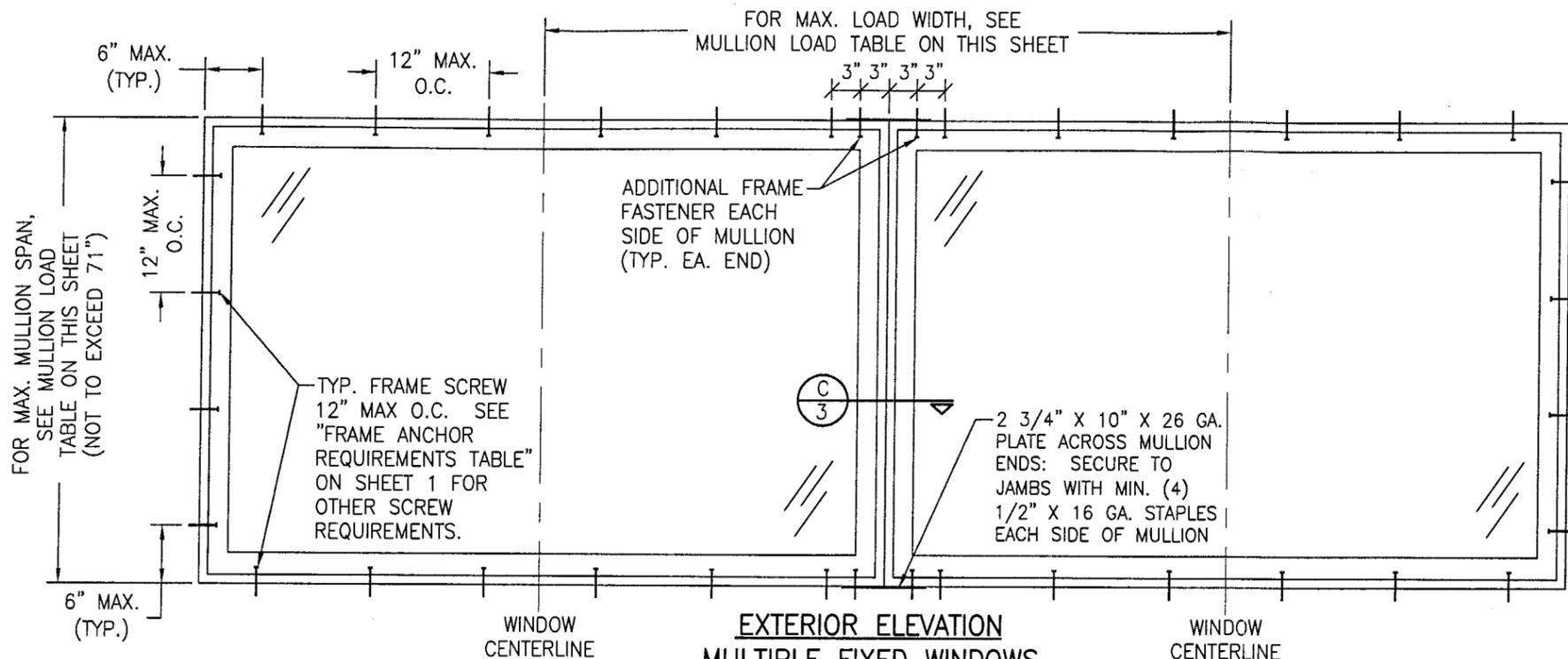
APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE LOAD TABLE DIMENSIONS (SEE SHEET 4) & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE UNIT SIZE IN THE LOAD TABLE.

DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/24/02	
NO.	REVISION DESCRIPTION	BY	DATE
A1	ADDED SHEET 4	K.P.S.	09/15/03
A2	ADDED MULT. WINDOW ELEV.	K.P.S.	09/15/03
A3	ADDED MULLED SECTION "C/3"	K.P.S.	09/15/03
A4	ADDED MULLED COVER	K.P.S.	09/15/03
A5	RENUMBERED ITEMS 16-19	K.P.S.	09/15/03
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOWS			
CONSULTANTS: W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: C.P. LOEWEN ENTERPRISES	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		77 P.T.H 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446	
By: <i>William W. Schaefer</i> Missouri State Product Control Division			
CERTIFICATION: SEP 19 2003			
DRAWING NO. 1095		REV. A	
SHEET NO. 1 OF 4			

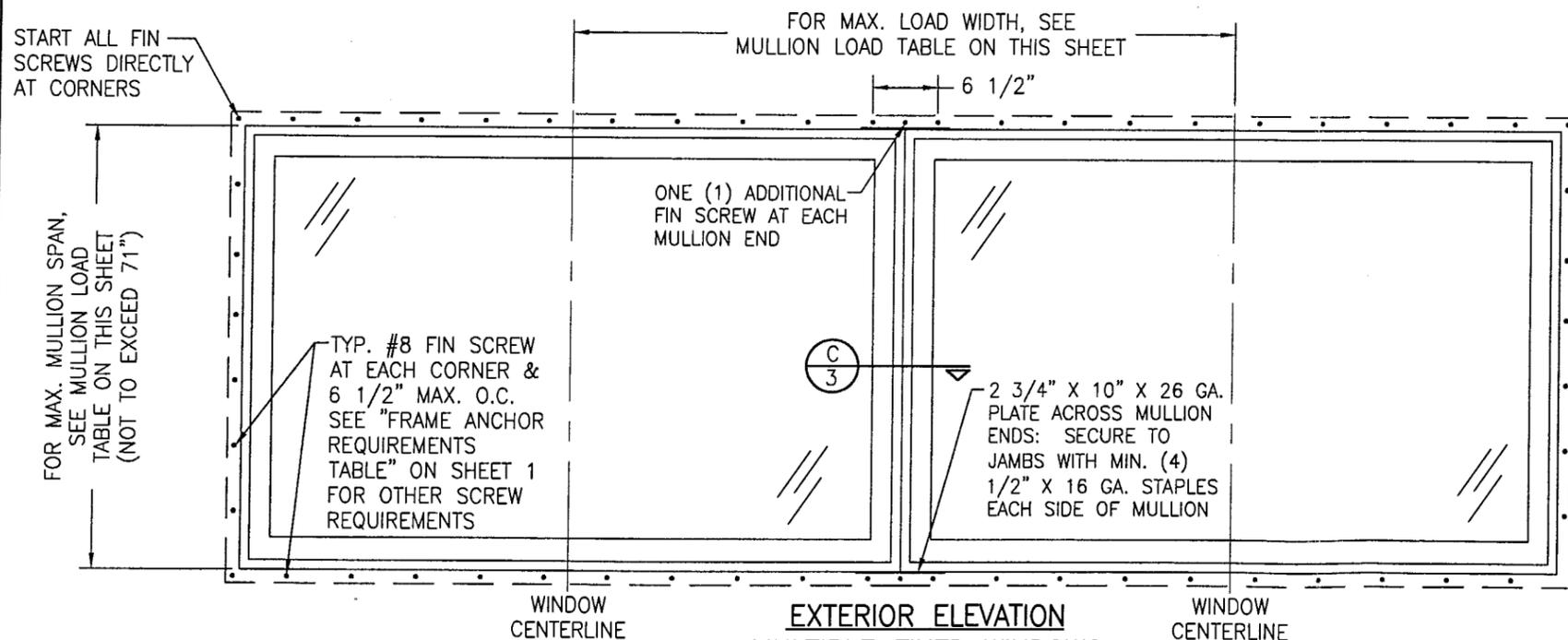


(MAX. FOUR WINDOWS MAY BE COMBINED IN ONE OPENING & STACKED HORIZONTALLY OR VERTICALLY)

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)

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
66"	54"	64.0	69.0
	51"	65.0	70.0
	(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 MULLIED 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.



(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)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 03-0929.03
 Expiration Date 08/15/03
 By *Warren W. Schaefer*
 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.	

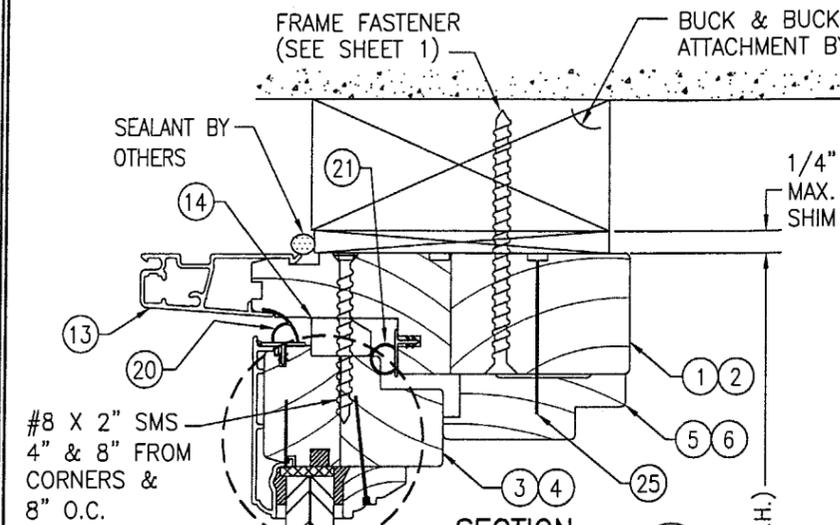
DRAWING TITLE
 ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOWS

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

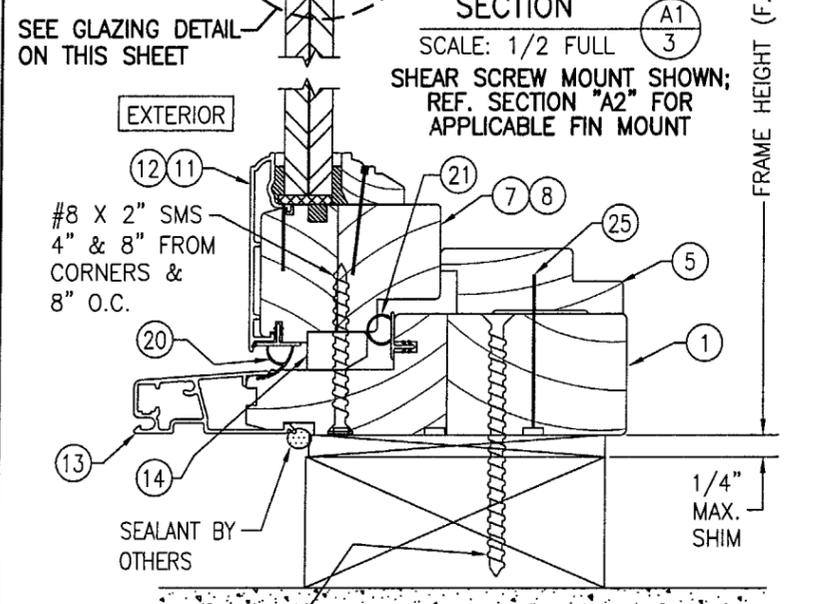
MANUFACTURER
 C.P. LOEWEN ENTERPRISES
 77 P.T.H. 52 WEST, BOX 2260
 STEINBACH, MB CANADA ROA 2A0
 204-326-6446

CERTIFICATION
 SEP 19 2003
 WARREN W. SCHAEFER, P.E.
 NO. 44135

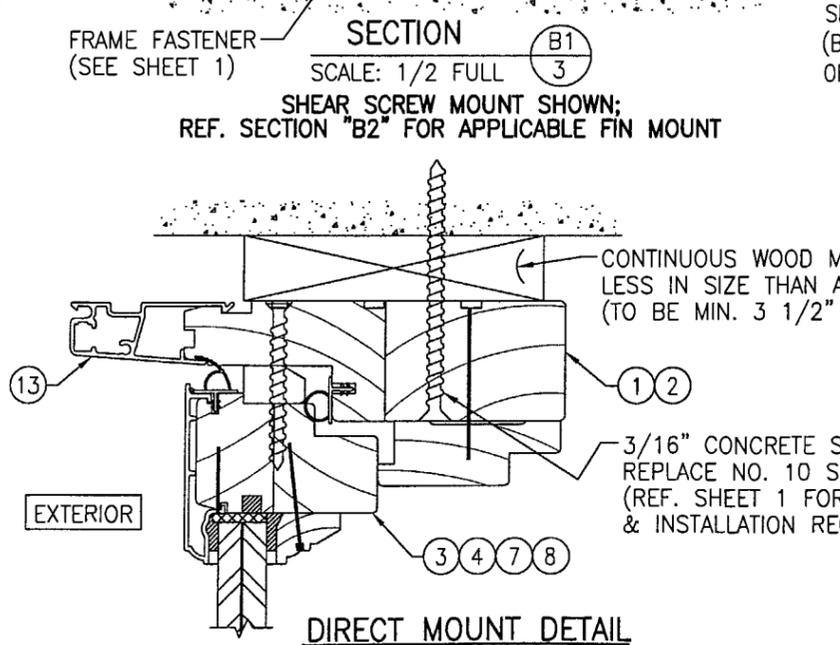
DRAWING NO.	REV.
1095	A
SHEET NO.	
2 OF 4	



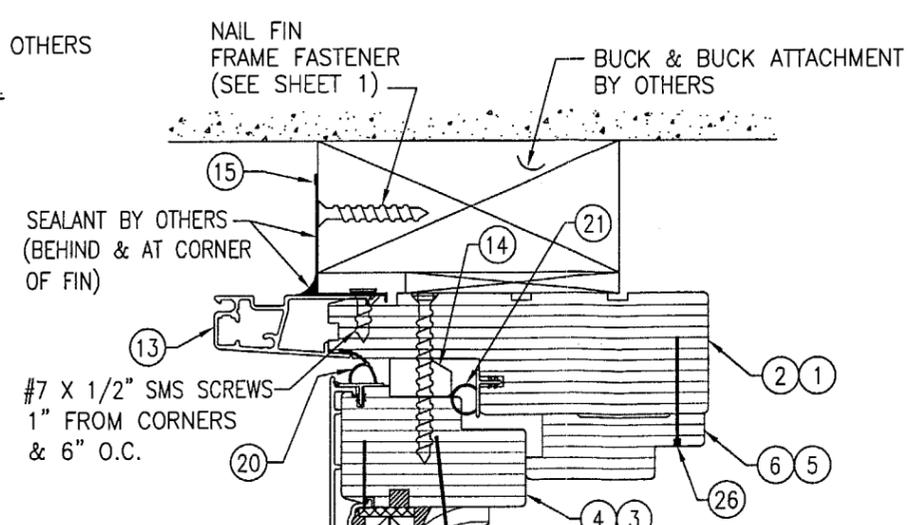
SECTION A1
SCALE: 1/2 FULL



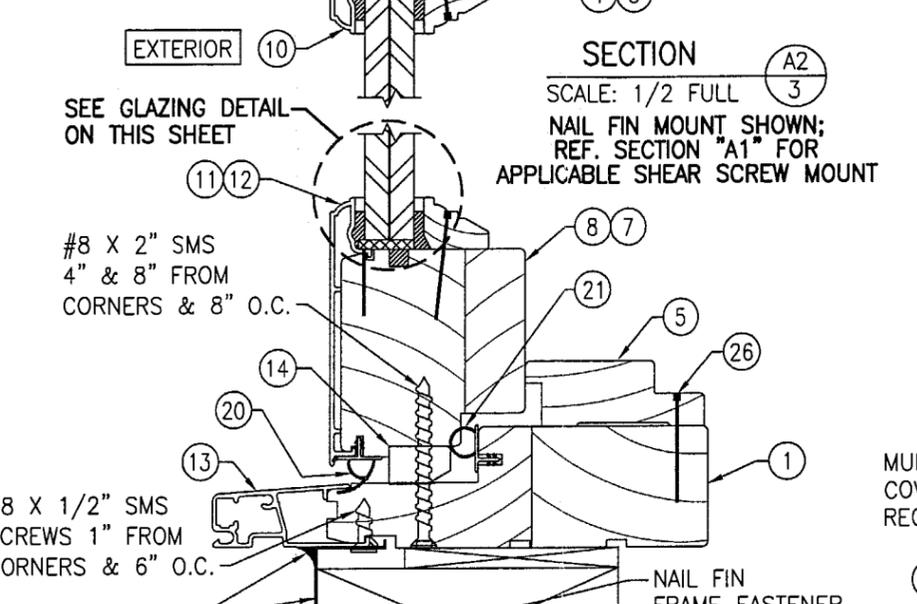
SECTION B1
SCALE: 1/2 FULL



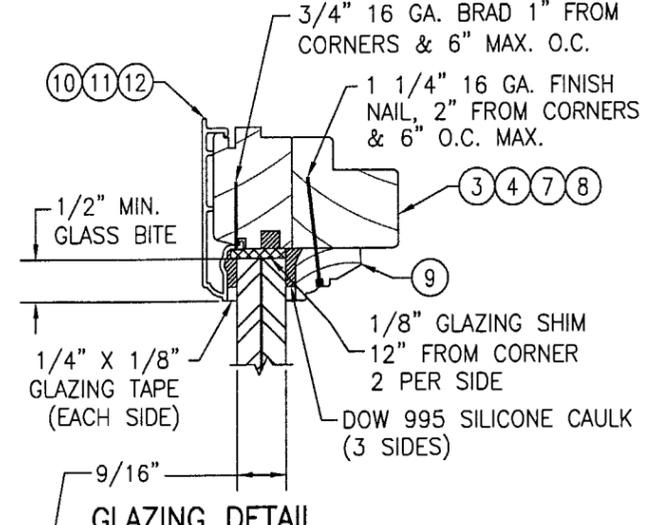
DIRECT MOUNT DETAIL



SECTION A2
SCALE: 1/2 FULL

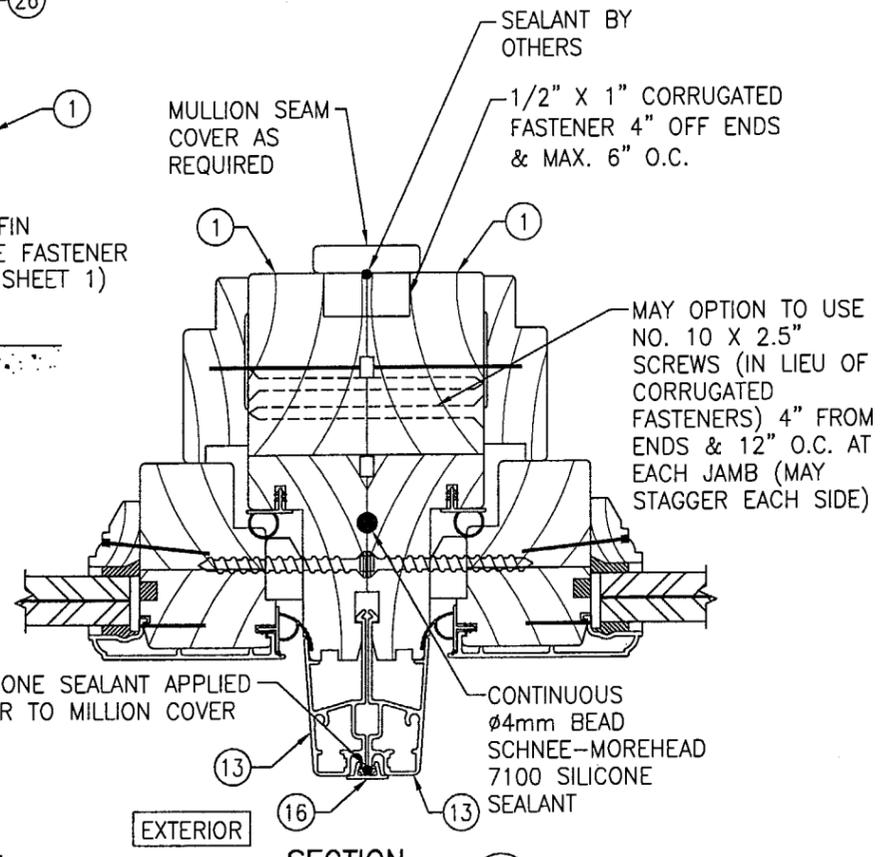


SECTION B2
SCALE: 1/2 FULL



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.)

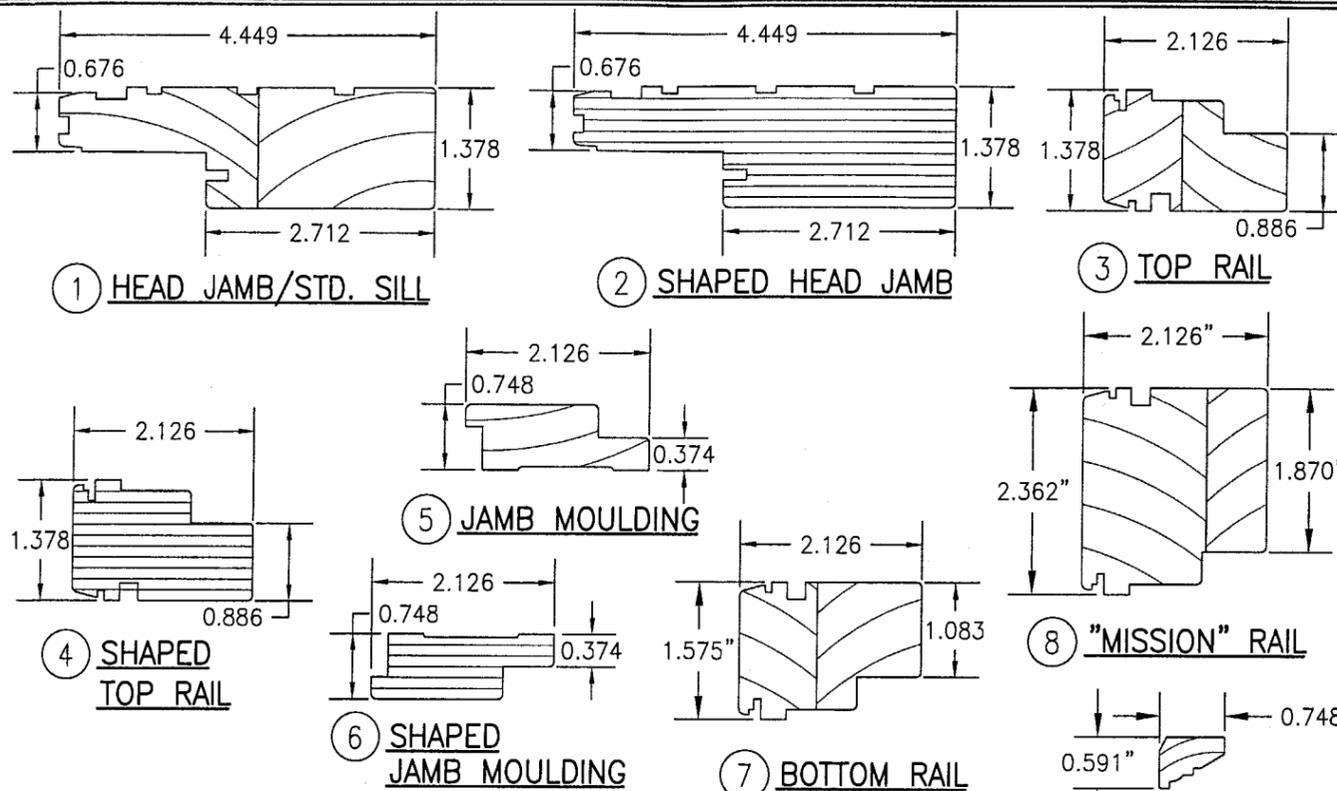


SECTION C
SCALE: 1/2 FULL

PRODUCT REVIEW
as complying with the Florida
Building Code
Acceptance No. 03-0929.03
Expiration Date 08/15/07

By *Glenn Berman*
Miami Dade Product Control
Division

DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/24/02	
NO.	REVISION DESCRIPTION	BY	DATE
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. NO. 44155			
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.

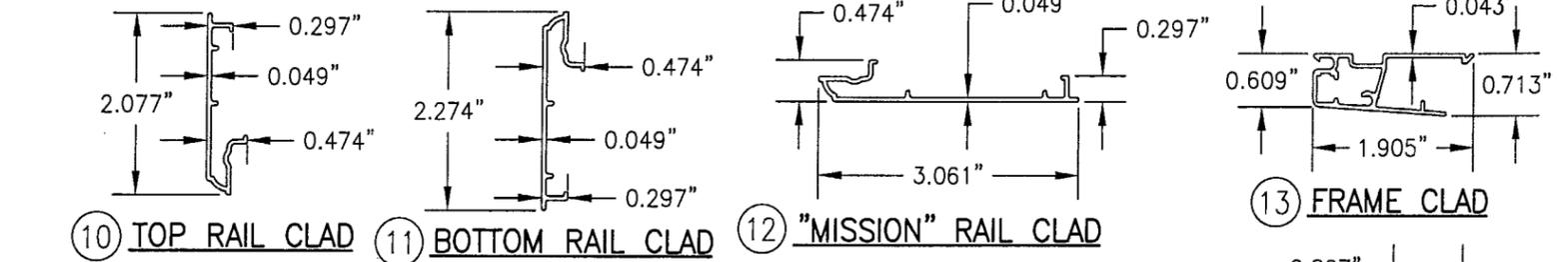
* WOOD USED WITH TEST UNITS WAS GRADE 2 NORTHERN DOUGLAS FIR. ALTERNATE WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, OAK, CHERRY, MAPLE & CYPRUS.
 NOTE: ALL WOOD IS RECEIVED BY LOEWEN WINDOWS AS GRADE 2, BUT IS MACHINED BY LOEWEN TO A SELECT GRADE USE.

**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"	42"	48"	54"	60"	63"	66"	72"	78"	84"	90"	94.5"	108"	120"	132"	144"
36"	70.0	70.0	70.0	70.0	70.0	70.0	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	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	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"	42"	48"	54"	60"	63"	66"	72"	78"	84"	90"	94.5"	108"	120"	132"	144"
36"	70.0	70.0	70.0	70.0	70.0	70.0	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	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	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	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	70.0	70.0	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	70.0	70.0	70.0	70.0	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"					

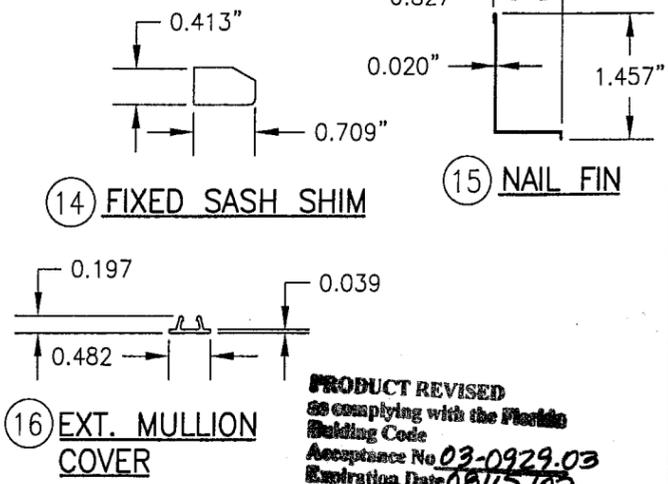


**ALLOWABLE DESIGN PRESSURE
WITH 9/16" ANNEALED SEASTORM LAMINATED GLASS
(GLAZING OPTION 3; 1/2" GLASS)**

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



PRODUCT REVISED
 66 complying with the Florida Building Code
 Acceptance No. 03-0929.03
 Expiration Date 08/15/03
 By: *Warren W. Schaefer*
 Mixed 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.
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 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1095		REV. A	
SHEET NO. 4 OF 4			