



**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)

**KML Windows, Inc.
23 Buchanan Court
London, Ontario, Canada N5Z 4P9**

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 Direct Set Glazed Wood Fixed Window-Impact Resistant

APPROVAL DOCUMENT: Drawing No.1225A, titled "Aluminum Clad Wood Direct Glazed Fixed Impact Windows", sheets 1 through 6 of 6, dated 5/13/03, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren 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

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 # 03-0625.06 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 04-0211.04
Expiration Date: April 19, 2009
Approval Date: March 25, 2004
Page 1**

KML Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1225A**, titled "Aluminum Clad Wood Direct Glazed Fixed Impact Windows", sheets 1 through 6 of 6, dated 5/13/03, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of direct set wood fixed windows of different shapes, prepared by Architectural Testing, Inc., Test Report No. **ATI 02-35023.02**, dated 5/28/03, signed and sealed by Steven Urich, P.E
2. 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 installation diagram of direct set wood fixed windows of different shapes, prepared by Intertek Testing Services NA Inc., Test Report No. **J99022770-231-01**, dated October 9, 2000, signed and sealed by Douglas Keith Tucker, P.E. *Submitted under NOA# 00-1030.04*
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
along with installation diagram of direct set wood fixed windows of different shapes, prepared by Intertek Testing Services NA Inc., Test Report No. **J99022770-231-02**, dated October 10, 2000, signed and sealed by Douglas Keith Tucker, P.E. *Submitted under NOA# 00-1030.04*

C. CALCULATIONS

1. Anchor Calculations and ASTM E-1300, dated 5/22/03, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.
2. Engineering Calculations prepared by W.W. Schaefer Engineering & Consulting, P.A, dated 8/28/00, sheets 1 thru 9 of 9, signed and sealed by Warren W. Schaefer, P.E. *Submitted under NOA# 00-1030.04*



Manuel Perez, P.E.
Product Control Examiner
NOA No 04-0211.04

Expiration Date: April 19, 2009
Approval Date: March 25, 2004

KML Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **03-0916.02** issued to Nebula Glass International Inc. for "Glasslam Safety-Plus Laminated Glass" dated 10/23/03, expiring on 9/9/08.
Submitted under NOA# 00-1030.04

F. STATEMENTS

1. Laboratory compliance letter for Test Report no. **ATI 02-35023.02**, issued by Architectural Testing, Inc., dated 6/11/03, signed and sealed by Steven Urich, P.E.

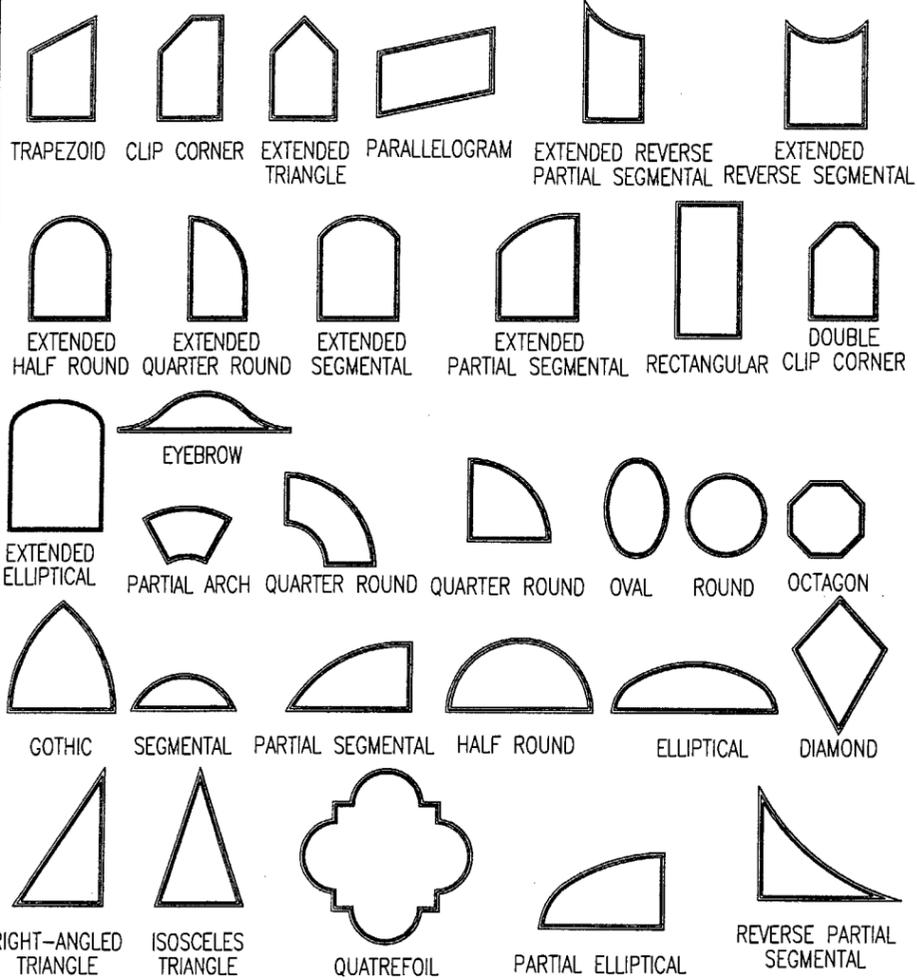
G. OTHER

1. Notice of Acceptance No. **03-0625.06**, issued to KML Window, Inc., Aluminum Clad Direct Set Glazed Wood Fixed Window, approved on 10/09/03 and expiring on 4/19/04.



Manuel Perez, P.E.
Product Control Examiner
NOA No 04-0211.04
Expiration Date: April 19, 2009
Approval Date: March 25, 2004

ANCHOR SPACING MAY BE 12" O.C. IF THE SMALLER FRAME DIMENSION OF THE WINDOW IS 40" OR LESS OR IF THE REQUIRED DESIGN PRESSURE IS +/-62 PSF OR LESS



SHAPES CONSIDERED AS PART OF THIS APPROVAL

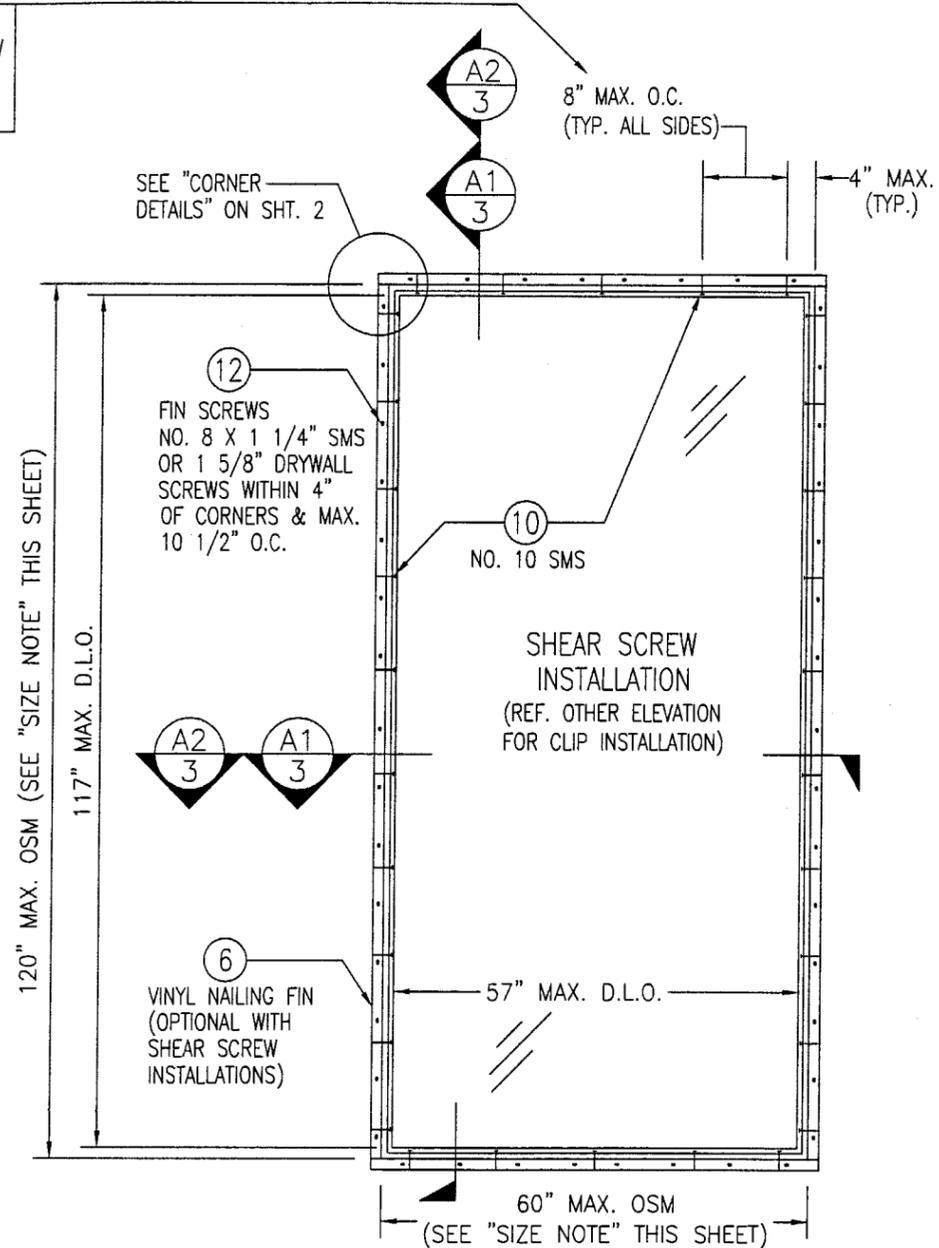
NOTE: FOR COMBINATION OF UNITS. SEE MULLION DRAWING NO. 1003E & 1003F UNDER SEPARATE APPROVAL

SIZE NOTE:
WINDOW SIZE & LOAD SHALL BE LIMITED BY THOSE SIZES & LOADS SPECIFIED IN THE LOAD TABLES ON SHEET 5.

ALLOWABLE DESIGN LOADS
SEE "LOAD TABLE" ON SHEET 5

JAMB FASTENER MIN. EMBEDMENT INTO OPENING OR BUCK
NO. 10 SMS SCREWS INTO BUCK = 1 3/8"
1/4" TAPCON INTO CONCRETE/BLOCK = 1 1/4"

JAMB FASTENER MINIMUM EDGE DISTANCE AT OPENING OR BUCK
WOOD BUCK = 1"
CONCRETE/BLOCK = 2"



EXTERIOR ELEVATION RECTANGULAR UNIT
SCALE: 1/2"=1'-0"
(60" X 120" SIZE SHOWN. FOR OTHER APPLICABLE MAXIMUM SIZES, SEE LOAD TABLE ON SHEET 5)

GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE LOAD TABLES ON SHEET 1, 2 & 5.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE DESIGNED & INSTALLED TO WITHSTAND WIND LOADS AS DETERMINED FOR EA. APPLICATION
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 PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS 201, 202 & 203 FOR IMPACT WINDOWS.
5. ALL JAMB TO BUCKING SHEAR FASTENERS MUST PENETRATE BUCK A MINIMUM OF 1 3/8". IF PENETRATION IS LESS THAN 1 3/8" THEN SCREW LENGTH SHALL INCREASE AS REQUIRED.
6. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
7. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, STRUCTURAL & CYCLIC TESTING.
8. THE LARGER WINDOW DIMENSION MAY BE EITHER HORIZONTAL OR VERTICAL.

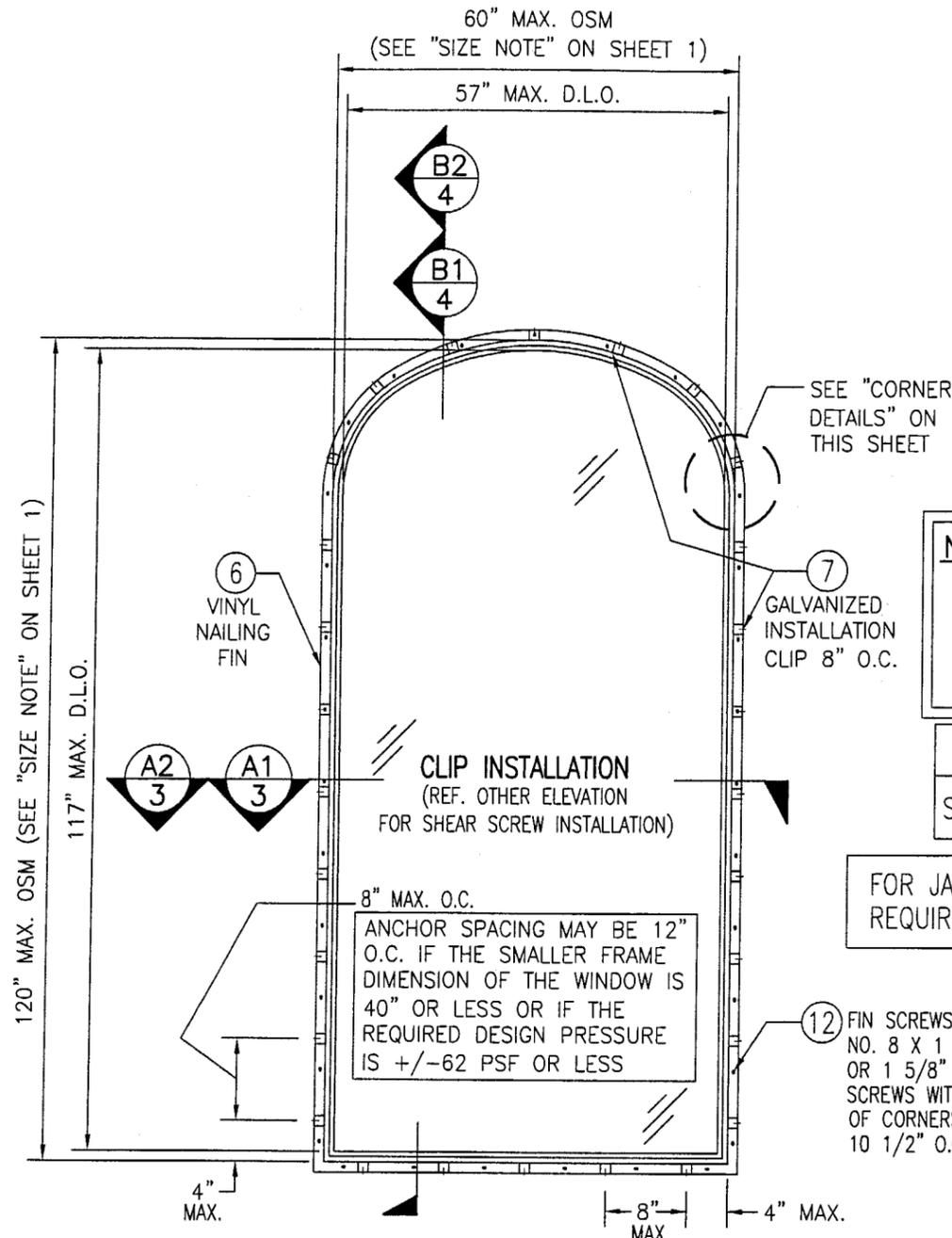
PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 04-0211.04
Expiration Date APRIL 19, 2009

By *Manuel Jere*
Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 03-0625.06
Expiration Date 04/19/04

By *Clarence Bowman*
Miami Dade Product Control Division

DRAWING TITLE	ALUMINUM CLAD WOOD DIRECT GLAZED FIXED IMPACT WINDOWS
	MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012
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
	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
CERTIFICATION	JUN 18 2003
	1225A
DRAWING NO.	REV.
1225A	
SHEET NO.	1 OF 6



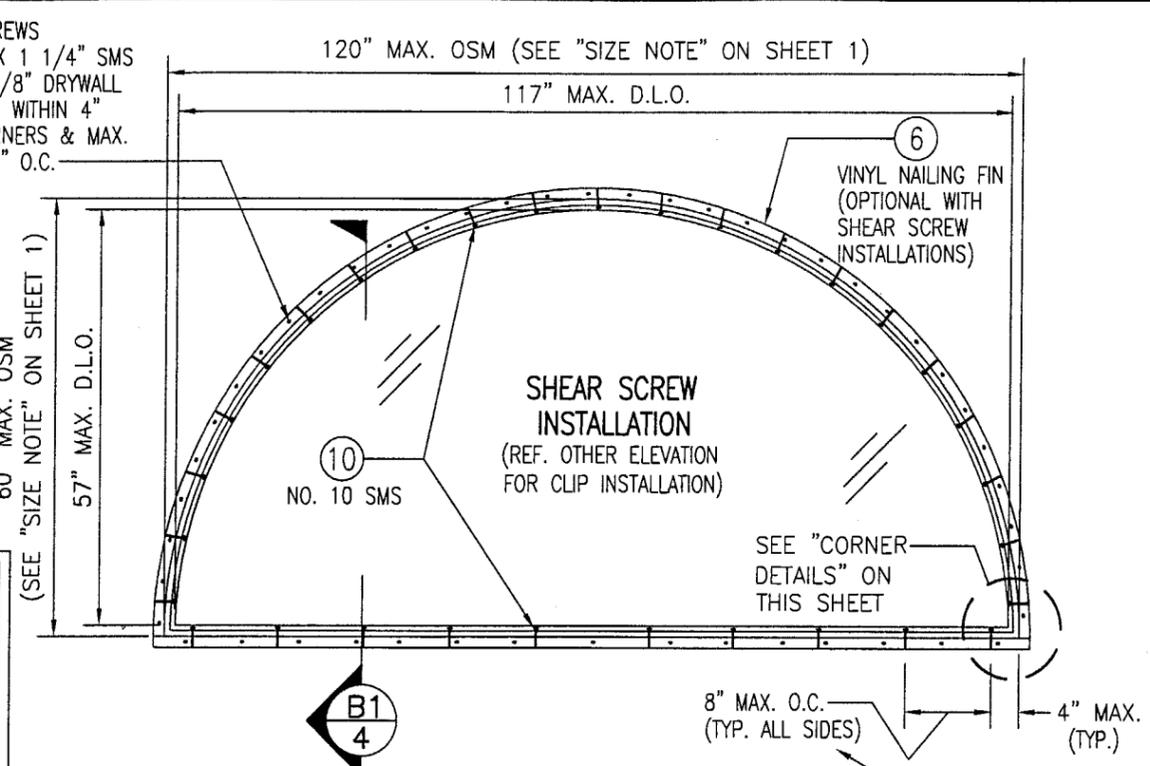
**EXTERIOR ELEVATION
SHAPE TOP UNIT**
SCALE: 1/2"=1'-0"
(60" X 120" SIZE SHOWN. FOR OTHER APPLICABLE
MAXIMUM SIZES, SEE LOAD TABLE ON SHEET 5)

**NOTE: FOR COMBINATION OF
UNITS. SEE MULLION
DRAWING NO. 1003E
& 1003F UNDER
SEPARATE APPROVAL**

ALLOWABLE DESIGN LOADS
SEE "LOAD TABLE" ON SHEET 5

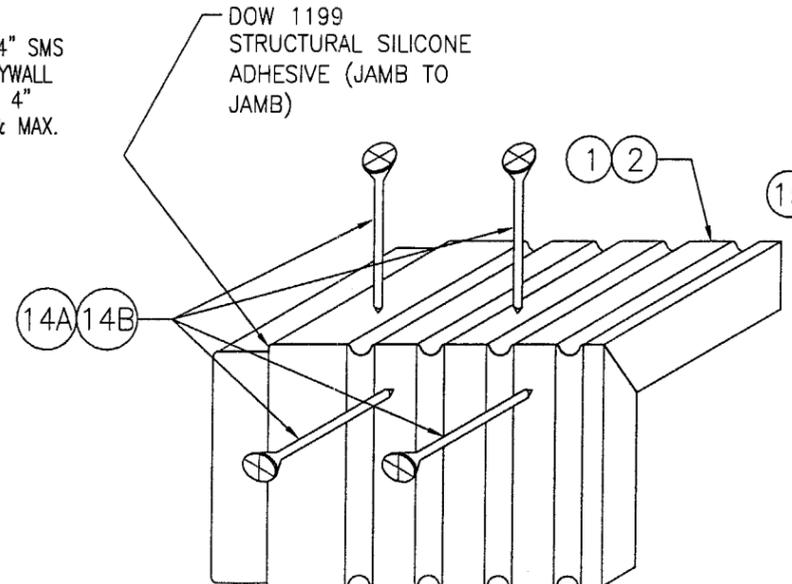
FOR JAMB FASTENER EMBED & EDGE DISTANCE
REQUIREMENTS, SEE SHEET 1

12 FIN SCREWS
NO. 8 X 1 1/4" SMS
OR 1 5/8" DRYWALL
SCREWS WITHIN 4"
OF CORNERS & MAX.
10 1/2" O.C.

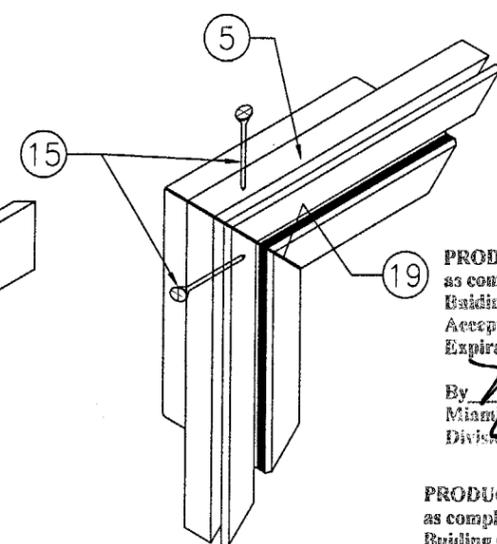


**EXTERIOR ELEVATION
HALF ROUND UNIT**
SCALE: 1/2"=1'-0"
(60" X 120" SIZE SHOWN. FOR OTHER APPLICABLE
MAXIMUM SIZES, SEE LOAD TABLE ON SHEET 5)

ANCHOR SPACING MAY BE 12" O.C. IF THE
SMALLER FRAME DIMENSION OF THE WINDOW
IS 40" OR LESS OR IF THE REQUIRED
DESIGN PRESSURE IS +/-62 PSF OR LESS



JAMB TO JAMB DETAIL
SCALE: N.T.S.



CLAD TO CLAD DETAIL
SCALE: N.T.S.

CORNER DETAILS

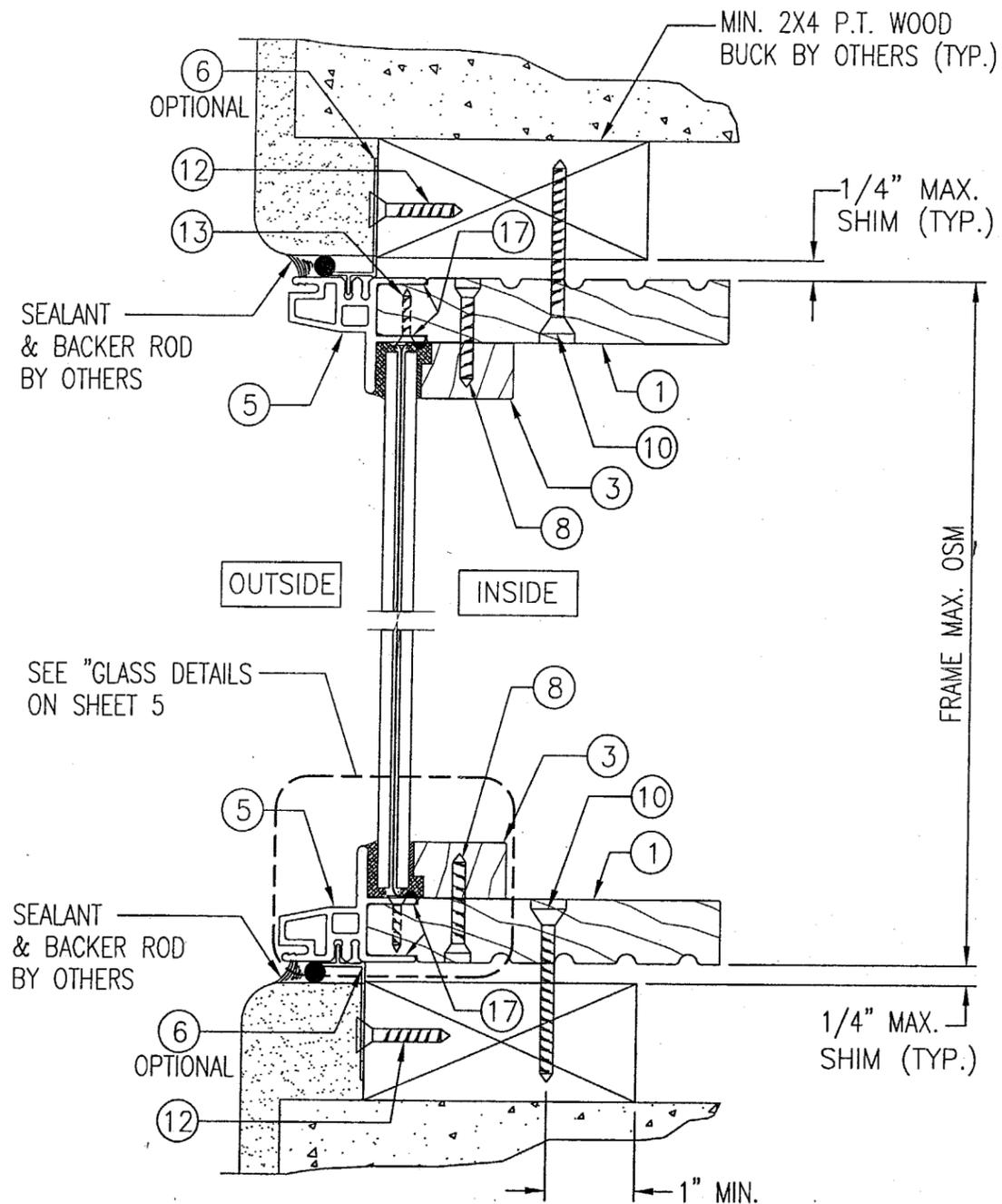
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **04-0211.04**
Expiration Date **APRIL 19, 2009**

By *Mmanuel Serez*
Miami Dade Product Control
Division

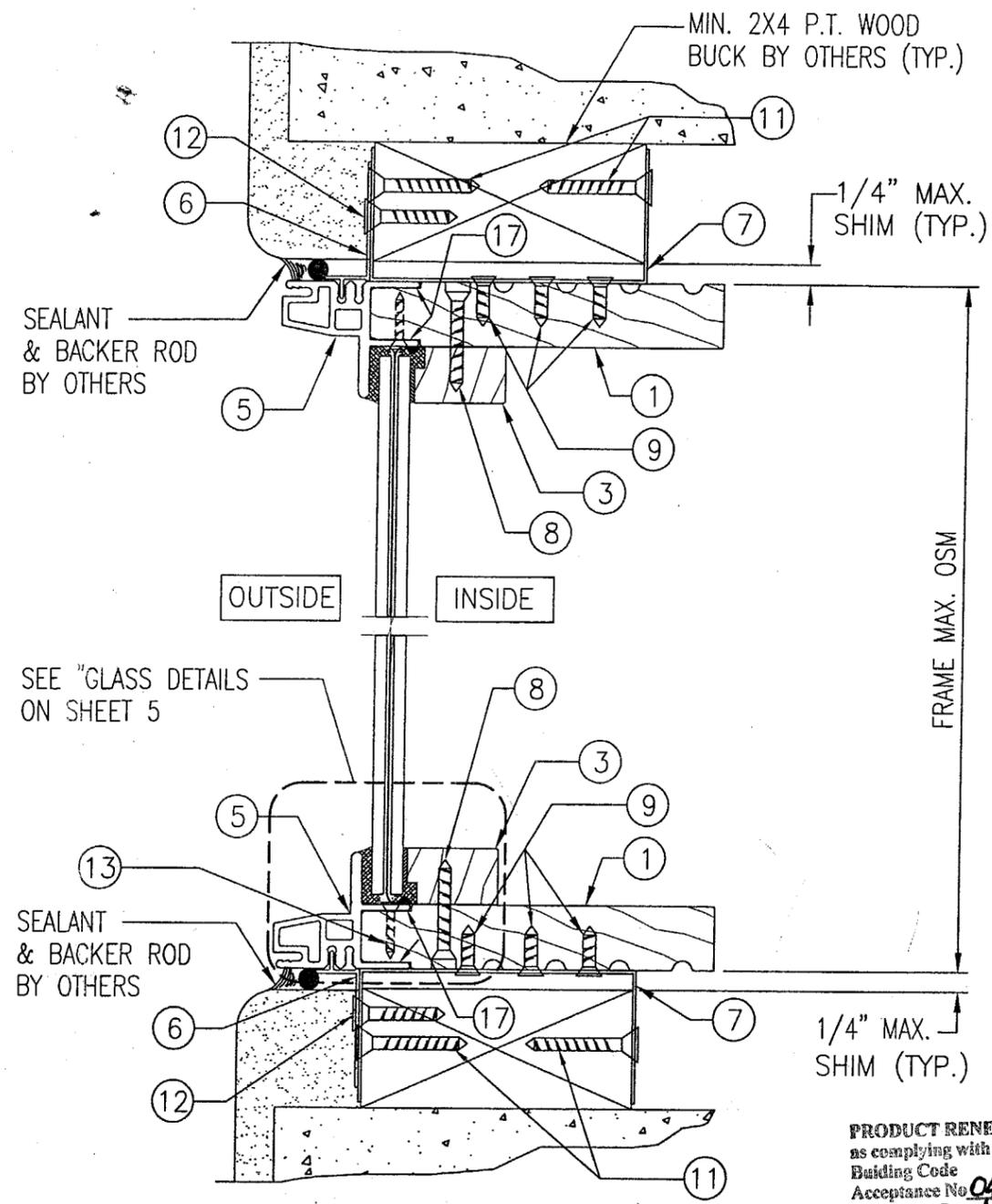
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **03-0625.06**
Expiration Date **04/19/04**

By *Blanche Korman*
Miami Dade Product Control
Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/13/03	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE ALUMINUM CLAD WOOD DIRECT GLAZED FIXED IMPACT WINDOWS			
CONSULTANTS W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER KML WINDOWS, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
CERTIFICATION JUN 18 2003			
DRAWING NO. 1225A		REV.	
SHEET NO. 2		OF 6	



SECTION **A1**
 SCALE: HALF FULL SIZE
 (NOTE: HORIZONTAL SECTION IS THE SAME)
 SHEAR SCREW
 INSTALLATION



SECTION **A2**
 SCALE: HALF FULL SIZE
 (NOTE: HORIZONTAL SECTION IS THE SAME)
 CLIP
 INSTALLATION

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. **04-0211.04**
 Expiration Date **APRIL 19, 2009**

By *Maurice Perry*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **03-0625.06**
 Expiration Date **04/19/04**

By *Clarence Bowman*
 Miami Dade Product Control
 Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 05/13/03

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
ALUMINUM CLAD WOOD DIRECT GLAZED FIXED IMPACT WINDOWS

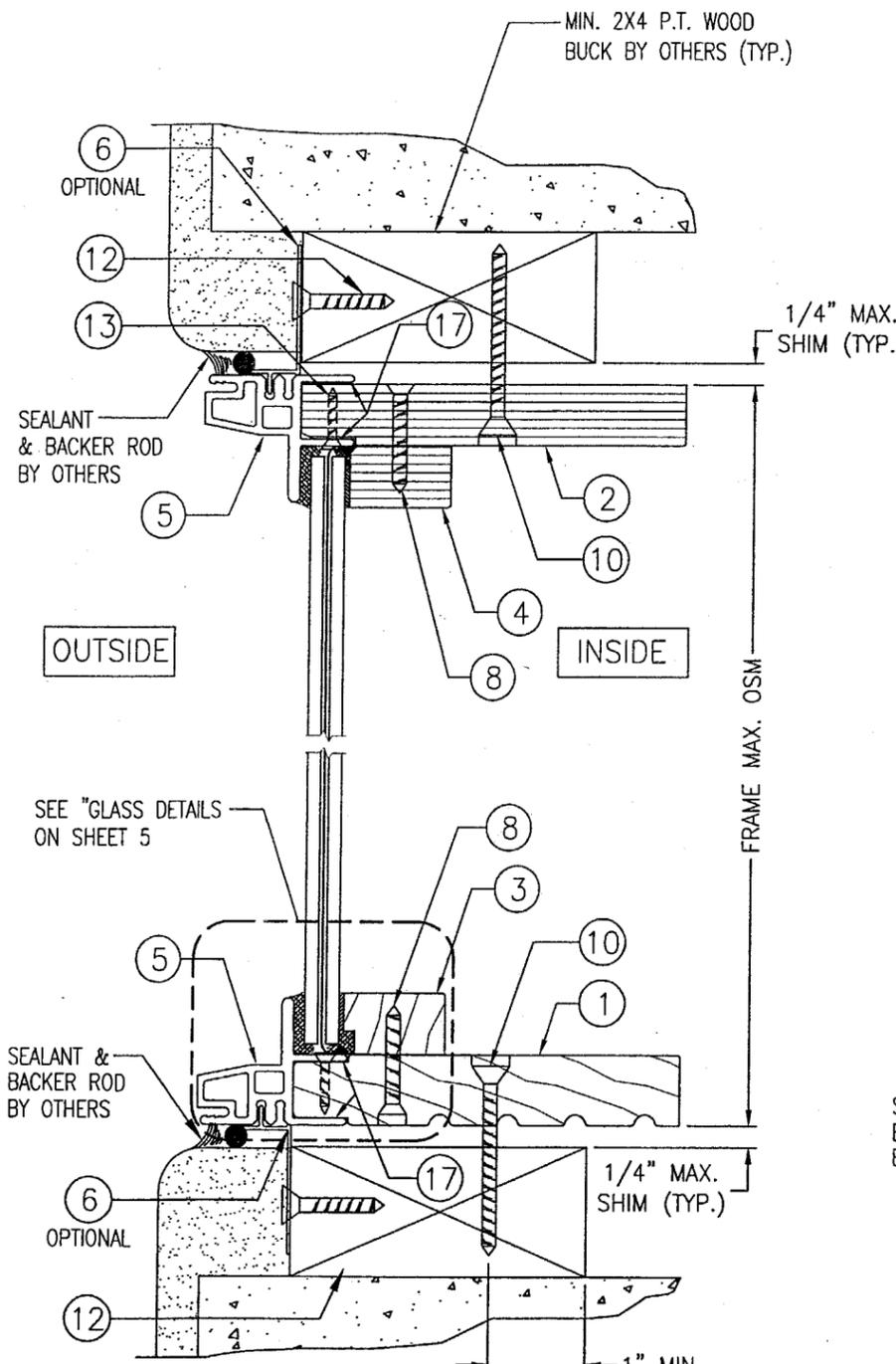
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902 FAX: 561-775-4903

MANUFACTURER
KML WINDOWS, INC.
 23 BUCHANAN COURT
 LONDON, ONTARIO, CANADA N5Z4P9
 (519) 681-7012

CERTIFICATION
JUN 18 2003

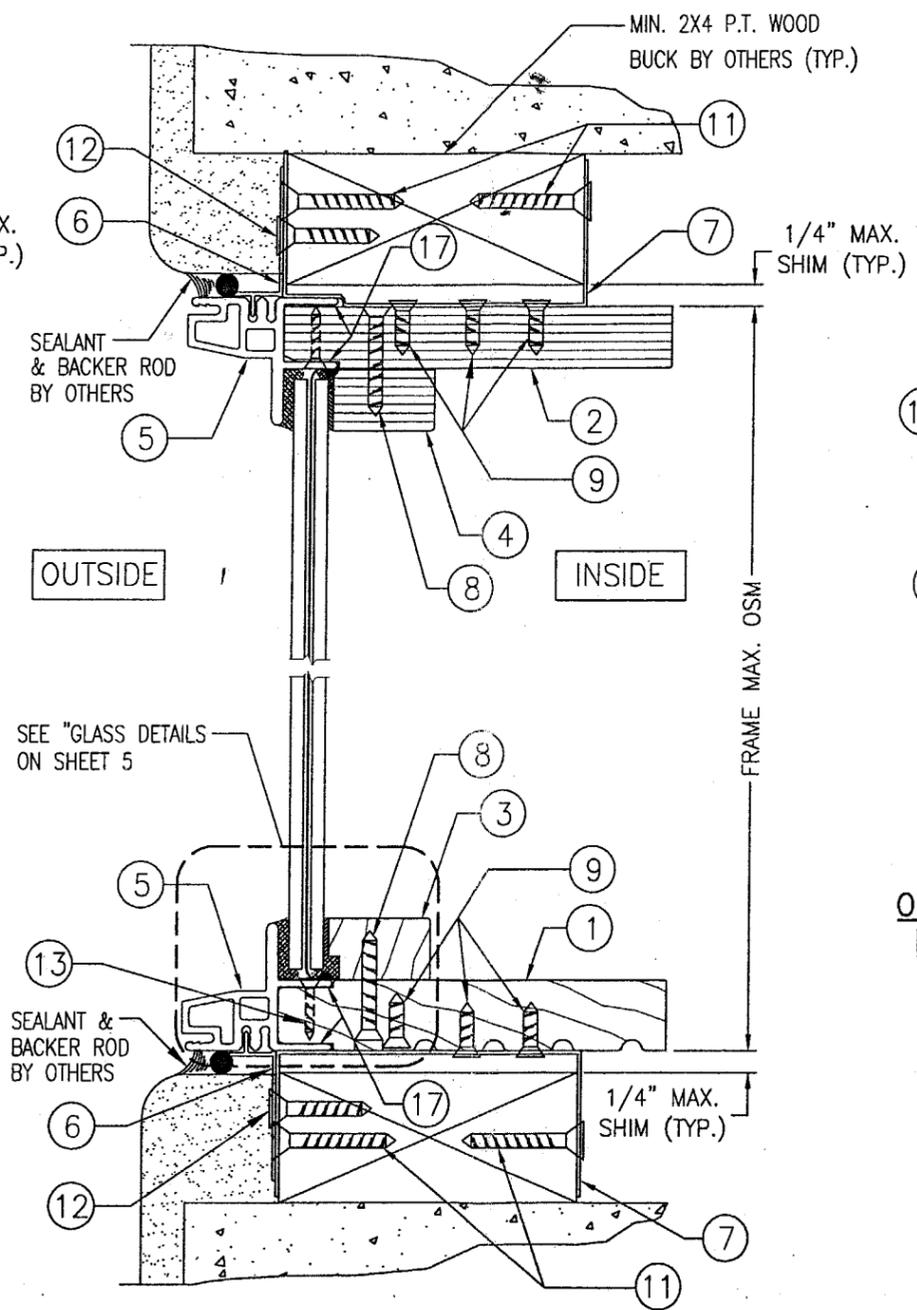
WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO. 1225A	REV.
SHEET NO. 3	OF 6



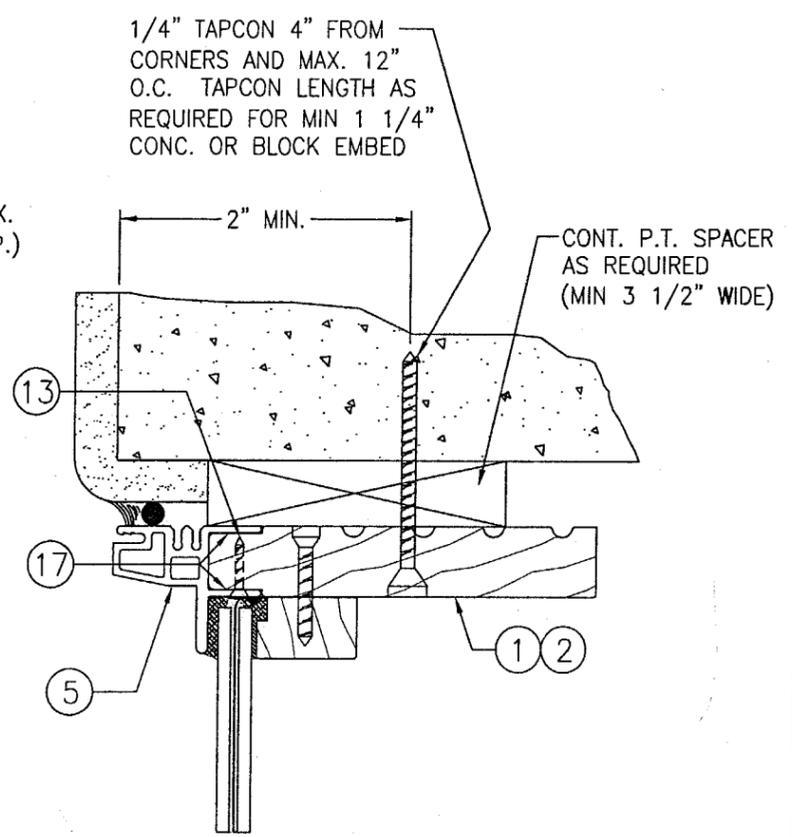
SECTION B1
SCALE: HALF FULL SIZE

SHEAR SCREW INSTALLATION



SECTION B2
SCALE: HALF FULL SIZE

CLIP INSTALLATION



OPTIONAL JAMB DETAIL FOR DIRECT MOUNT TO CONCRETE OR BLOCK

(TYP. ALL UNITS)
SCALE: 1/2 FULL SIZE

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 04-0211.04
Expiration Date APRIL 19, 2009
By *Mauro...*
Miami Dade Product Control Division

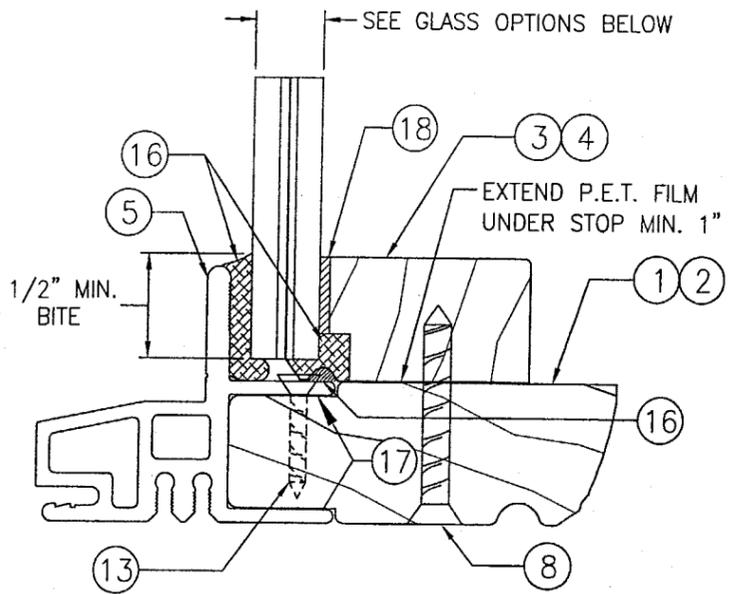
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 03-0625.06
Expiration Date 03/19/04
By *Christine...*
Miami Dade Product Control Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/13/03	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE ALUMINUM CLAD WOOD DIRECT GLAZED FIXED IMPACT 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 KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
CERTIFICATION	JUN 18 2003		
WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.	REV.		
1225A			
SHEET NO.			
4 OF 6			

DESIGN LOAD CAPACITY (PSF)									
WINDOW SIZE (OSM)		GLASS OPTION 1		GLASS OPTION 2 & 3		GLASS OPTION 4		GLASS OPTION 5	
MAX. SHORT SIDE	MAX. LONG SIDE	POS	NEG	POS	NEG	POS	NEG	POS	NEG
24"	36"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
24"	42"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
42"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	72.2
24"	48"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	73.6
42"		70.0	80.0	70.0	80.0	70.0	80.0	62.7	62.7
48"		70.0	80.0	70.0	80.0	70.0	80.0	56.3	56.3
24"	54"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
36"		70.0	80.0	70.0	80.0	70.0	80.0	64.6	64.6
42"		70.0	80.0	70.0	80.0	70.0	80.0	56.1	56.1
48"		70.0	80.0	70.0	80.0	70.0	80.0	49.3	49.3
54"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
24"	60"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	77.8
36"		70.0	80.0	70.0	80.0	70.0	80.0	59.3	59.3
42"		70.0	80.0	70.0	80.0	70.0	80.0	49.7	49.7
48"		70.0	80.0	70.0	80.0	70.0	80.0	44.2	44.2
54"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
60"	70.0	80.0	70.0	80.0	70.0	80.0	75.5	-	
24"	66"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	70.0	73.5
36"		70.0	80.0	70.0	80.0	70.0	80.0	54.7	54.7
42"		70.0	80.0	70.0	80.0	70.0	80.0	44.7	44.7
48"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
54"		70.0	80.0	70.0	80.0	70.0	76.5	-	-
60"		70.0	80.0	70.0	80.0	70.0	67.5	67.5	-
66"	63.6	72.7	63.6	72.7	60.6	60.6	-	-	
24"	72"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	69.9	69.9
36"		70.0	80.0	70.0	80.0	70.0	80.0	50.7	50.7
42"		70.0	80.0	70.0	80.0	70.0	80.0	39.9	39.9
48"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
54"		70.0	80.0	70.0	80.0	70.0	70.1	-	-
60"		70.0	79.4	70.0	80.0	61.3	61.3	-	-
66"		63.6	72.7	63.6	72.7	-	-	-	-
72"	58.3	66.7	58.3	66.7	-	-	-	-	
24"	78"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	66.9	66.9
36"		70.0	80.0	70.0	80.0	70.0	80.0	47.3	47.3
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	80.0	70.0	80.0	70.0	75.5	-	-
54"		70.0	79.6	70.0	80.0	64.2	64.2	-	-
60"		70.0	73.6	70.0	80.0	-	-	-	-
66"		63.6	72.7	63.6	72.7	-	-	-	-
72"		58.3	66.7	58.3	66.7	-	-	-	-

DESIGN LOAD CAPACITY (PSF)									
WINDOW SIZE (OSM)		GLASS OPTION 1		GLASS OPTION 2 & 3		GLASS OPTION 4		GLASS OPTION 5	
MAX. SHORT SIDE	MAX. LONG SIDE	POS	NEG	POS	NEG	POS	NEG	POS	NEG
24"	84"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	64.4	64.4
36"		70.0	80.0	70.0	80.0	70.0	80.0	45.3	45.3
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	80.0	70.0	80.0	70.0	70.9	-	-
54"	70.0	73.8	70.0	80.0	60.0	60.0	-	-	
60"	67.9	67.9	70.0	80.0	-	-	-	-	
66"	63.6	72.7	63.6	72.7	-	-	-	-	
72"	58.3	66.7	58.3	66.7	-	-	-	-	
24"	90"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	62.4	62.4
36"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	78.0	70.0	80.0	66.9	66.9	-	-
54"		68.6	68.6	70.0	80.0	-	-	-	-
60"		62.3	62.3	70.0	80.0	-	-	-	-
66"		63.6	71.1	63.6	72.7	-	-	-	-
72"	58.3	66.7	58.3	66.7	-	-	-	-	
24"	96"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	61.1	61.1
36"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
42"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
48"		70.0	74.8	70.0	80.0	63.4	63.4	-	-
54"		64.3	64.3	70.0	80.0	-	-	-	-
60"		58.9	58.9	70.0	80.0	-	-	-	-
66"		63.6	66.5	63.6	72.7	-	-	-	-
72"		58.3	63.5	58.3	66.7	-	-	-	-
24"		102"	70.0	80.0	70.0	80.0	70.0	80.0	70.0
30"	70.0		80.0	70.0	80.0	70.0	80.0	-	-
36"	70.0		80.0	70.0	80.0	70.0	80.0	-	-
42"	70.0		80.0	70.0	80.0	70.0	77.3	-	-
48"	70.0		71.5	70.0	80.0	-	-	-	-
54"	60.9		60.9	70.0	80.0	-	-	-	-
60"	55.3		55.3	70.0	80.0	-	-	-	-
66"	61.9		61.9	63.6	72.7	-	-	-	-
24"	108"	70.0	80.0	70.0	80.0	70.0	80.0	70.0	80.0
30"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
36"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
42"		70.0	80.0	70.0	80.0	70.0	75.3	-	-
48"		68.7	68.7	70.0	80.0	-	-	-	-
54"		58.1	58.1	70.0	80.0	-	-	-	-
60"		52.0	52.0	70.0	80.0	-	-	-	-
66"		57.2	57.2	63.6	72.7	-	-	-	-
24"	120"	70.0	80.0	70.0	80.0	70.0	80.0	-	-
30"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
36"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
42"		70.0	80.0	70.0	80.0	-	-	-	-
48"		63.9	63.9	70.0	80.0	-	-	-	-
54"		53.3	53.3	70.0	80.0	-	-	-	-
60"		46.0	46.0	70.0	75.5	-	-	-	-
66"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
24"	132"	70.0	80.0	70.0	80.0	-	-	-	-
30"		70.0	80.0	70.0	80.0	-	-	-	-
36"		70.0	80.0	70.0	80.0	-	-	-	-
42"		70.0	78.9	70.0	80.0	-	-	-	-
48"		60.9	60.9	70.0	80.0	-	-	-	-
54"		49.5	49.5	70.0	80.0	-	-	-	-
60"		70.0	80.0	70.0	80.0	70.0	80.0	-	-
66"		70.0	80.0	70.0	80.0	-	-	-	-
24"	144"	70.0	80.0	70.0	80.0	-	-	-	-
30"		70.0	76.6	70.0	80.0	-	-	-	-
36"		58.8	58.8	70.0	80.0	-	-	-	-
48"		58.8	58.8	70.0	80.0	-	-	-	-

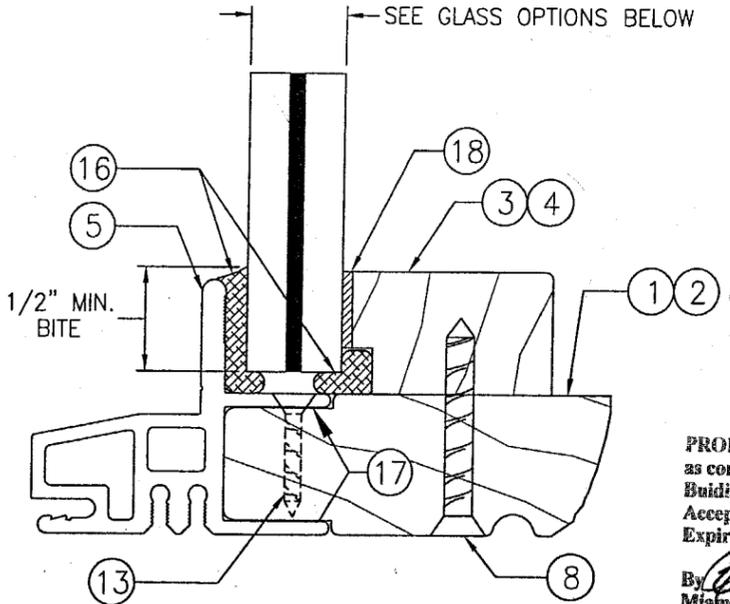
NOTE: HEIGHT & WIDTH CAN BE INTERCHANGED



TYPICAL GLASS & GLAZING DETAIL

SCALE: FULL SIZE

- GLASS OPTION 1: NEBULA SAFETY-PLUS (3/16" HS/0.06" RESIN/ 0.01" PET/0.06" RESIN/3/16" HS)
- GLASS OPTION 2: NEBULA SAFETY-PLUS (1/4" HS/0.06" RESIN/ 0.01" PET/0.06" RESIN/1/4" HS)



OPTIONAL GLASS & GLAZING DETAIL

SCALE: FULL SIZE

- GLASS OPTION 3: 9/16" THICK LAMINATED GLASS WITH DUPONT SGP (1/4" HS/0.09" SGP/1/4" HS)
- GLASS OPTION 4: 9/16" THICK LAMINATED GLASS WITH SAFLEX PVB(1/4" AN/0.09" PVB/1/4" AN)
- GLASS OPTION 5: 3/8" THICK LAMINATED GLASS WITH SAFLEX PVB (5/32" AN/0.09" PVB/5/32" AN)

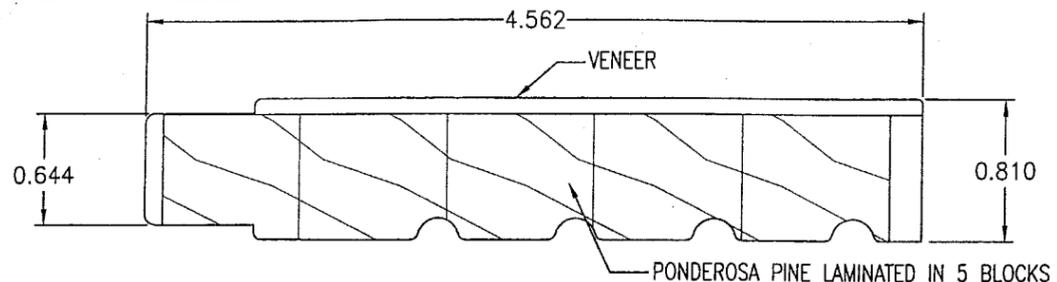
PRODUCT REVISED as complying with the Florida Building Code Acceptance No 03-0625.06 Expiration Date 04/19/04

By *Chadwick Bowman* Miami Dade Product Control Division

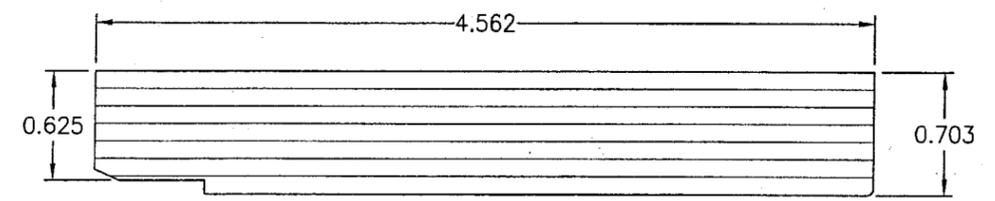
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 04-0211.04 Expiration Date APRIL 19, 2009

By *Warren W. Schaefer* Miami Dade Product Control Division

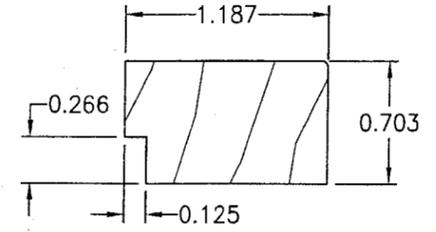
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-1	DATE: 05/13/03
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT GLAZED FIXED IMPACT WINDOWS	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER: KML WINDOWS, INC.
23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION: JUN 18 2003	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1225A	REV.
SHEET NO. 5 OF 6	



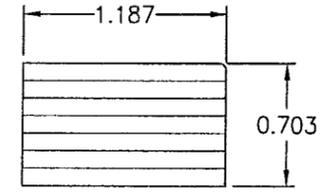
① LINEAL WOOD FRAME JAMB
PONDEROSA PINE



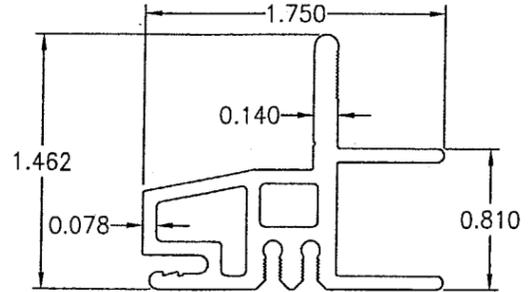
② RADIAL WOOD FRAME JAMB
(LAMINATED VENEER)



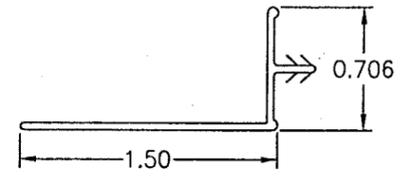
③ LINEAL WOOD GLAZING STOP
PONDEROSA PINE



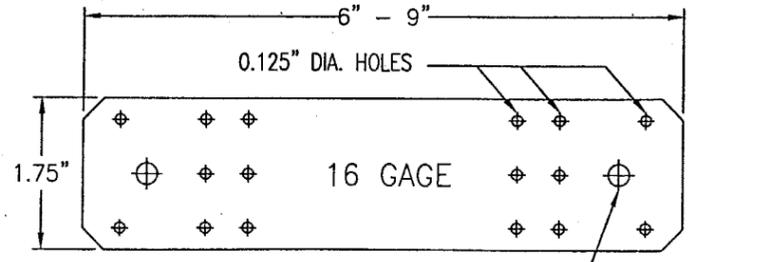
④ RADIAL WOOD GLAZING STOP
(LAMINATED VENEER)



⑤ FRAME CLADDING
(6063-T5 ALUMINUM)



⑥ NAILING FIN
(VINYL)



⑦ INSTALLATION CLIP
(GALVANIZED STEEL)
Fy = 33 ksi MIN.

MATERIAL LIST			
PART NO.	REF. NO.	DESCRIPTION	NOTES
PARTS & EXTRUSIONS			
1	PF1277	LINEAL JAMB	SEE NOTE 1 THIS SHEET.
2	PF1231	RADIAL JAMB	LAMINATED VENEER
3	PF1205	LINEAL GLAZING STOP	SEE NOTE 1 THIS SHEET.
4	PF1218	RADIAL GLAZING STOP	LAMINATED VENEER
5	KM34	FRAME CLADDING	ALUMINUM (6063-T5)
6	PF1214 PF1326	VINYL NAILING FIN	OPTIONAL AT SHEAR SCREW INSTALLATION UNITS
7	SK1031	GALVANIZED 16 GA. STEEL INSTALLATION CLIP	GALVANIZED STEEL, INC. (Fy = 33 KSI MIN.) 4" FROM CORNERS & 8" O.C.
FASTENERS & SEALANTS			
8	-	#8 x 1 1/4" SMS SCREW	4" FROM CORNERS & MAX. 12" O.C.
9	-	#8 x 5/8" PAN HEAD SMS SCREW	3 PER INSTALLATION CLIP INTO JAMB
10	-	#10 SMS SCREW WITH MINIMUM 1 3/8" EMBED INTO THE BUCK (JAMB TO BUCK)	4" FROM CORNERS & MAX. 8" O.C.
11	-	#8 x 1 1/4" SMS SCREW	2 PER CLIP INTO BUCK (1 EA. SIDE OF BUCK)
12	-	S/STL #8 x 1 1/4" SMS SCREW OR 1 5/8" DRYWALL SCREW	4" FROM ENDS & MAX. 10 1/2" O.C. WITH FIN
13	-	#6 x 3/4" SMS SCREW	4" FROM CORNERS & 12" O.C.
14A	-	#8 x 2" SMS SCREW	4 @ EACH RECTANGULAR JAMB CORNER
14B	-	#8 x 1 1/2" SMS SCREW	4 @ EACH RADIUS JAMB CORNER
15	-	#6 x 3/4" SMS SCREW	2 @ CLAD CORNERS INTO CLAD SPLINES
16	-	DOW 995 SILICONE	FOR 1/2" GLAZING BITE
17	-	STRUCTURAL SILICONE ADHESIVE	DOW 1199 CONTINUOUS CLADDING TO JAMB
OTHER			
18	-	NORTON NORGLAZE .0625" X .437" GLAZING TAPE	POLYOLEFIN FOAM W/ ACRYLIC ADHESIVE
19	-	TREMCO 440 BUTYL TAPE GASKET	TRIM OFF AT EDGES (TYP. AT CLAD CORNERS)

1 ALL WOOD USED WITH TESTED UNITS IS MINIMUM GRADE 2 PONDEROSA PINE.
ALTERNATE WOOD SPECIES ACCEPTABLE WITH THIS PRODUCT ARE THE FOLLOWING
MINIMUM GRADE 2 WOODS:

1. MAHOGANY
2. OAK
3. CHERRY
4. CYPRUS
5. DOUGLAS FIR
6. MAPLE
7. TEAK

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **04-0211.04**
Expiration Date **APRIL 19, 2009**

By: *Warren W. Schaefer*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **03-0625.06**
Expiration Date **04/19/09**

By: *Warren W. Schaefer*
Miami Dade Product Control
Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=1	DATE: 05/13/03
DATE	BY
REVISION	DESCRIPTION
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD DIRECT GLAZED FIXED IMPACT WINDOWS	
MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
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 JUN 18 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44133	
DRAWING NO. 1225A	REV.
SHEET NO. 6 OF 6	