



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-Non-Impact Resistant

APPROVAL DOCUMENT: Drawing No.1225B, titled "Aluminum Clad Wood Direct Glazed Fixed Non-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: None

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 # 03-0625.08** 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 04-0211.05
 Expiration Date: April 19, 2009
 Approval Date: March 25, 2004

KML Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

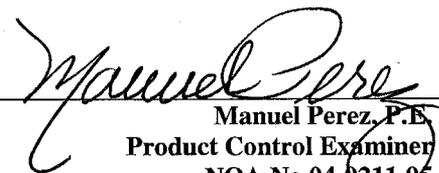
1. Manufacturer's die drawings and sections.
2. Drawing No. **1225B**, titled "Aluminum Clad Wood Direct Glazed Fixed Non-Impact Windows", sheets 1 through 6 of 6, dated 5/13/03, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

B. TESTS

1. Test reports on 1) 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**
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
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. Glass Load Resistance Report 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 04-0211.05

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

KML Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

Miami Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

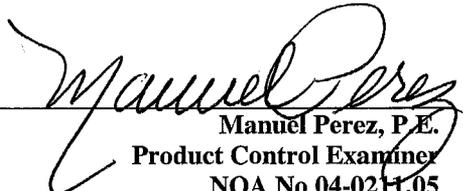
1. Notice of Acceptance No. **03-0916.02** issued to Nebula Glass International Inc. for "Glasslam Safety-Plus Laminated Glass" dated 9/23/03, expiring on 9/9/08.
Submitted under NOA# 00-1030.04

F. STATEMENTS

1. None.

G. OTHER

1. Notice of Acceptance No. **03-0625.08**, issued to KML Window, Inc., Aluminum Clad Direct Set Glazed Wood Fixed Window, approved on 10/09/03 and expiring on 4/19/04.



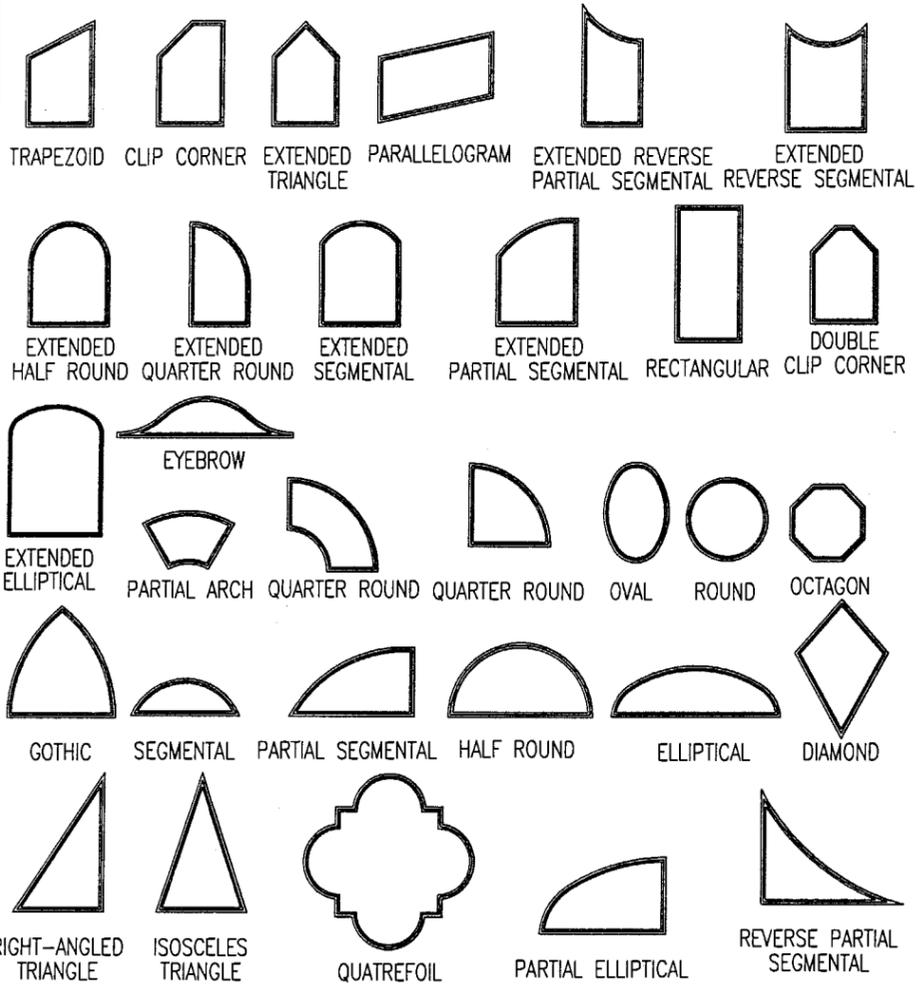
Manuel Perez, P.E.

Product Control Examiner

NOA No 04-0211.05

Expiration Date: April 19, 2009

Approval Date: March 25, 2004



SHAPES CONSIDERED AS PART OF THIS APPROVAL

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 & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS 202 FOR NON-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-202.
8. THE LARGER WINDOW DIMENSION MAY BE EITHER HORIZONTAL OR VERTICAL.
9. FOR ALL NON-IMPACT WINDOWS, FLORIDA BUILDING CODE APPROVED SHUTTERS ARE REQUIRED.

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.

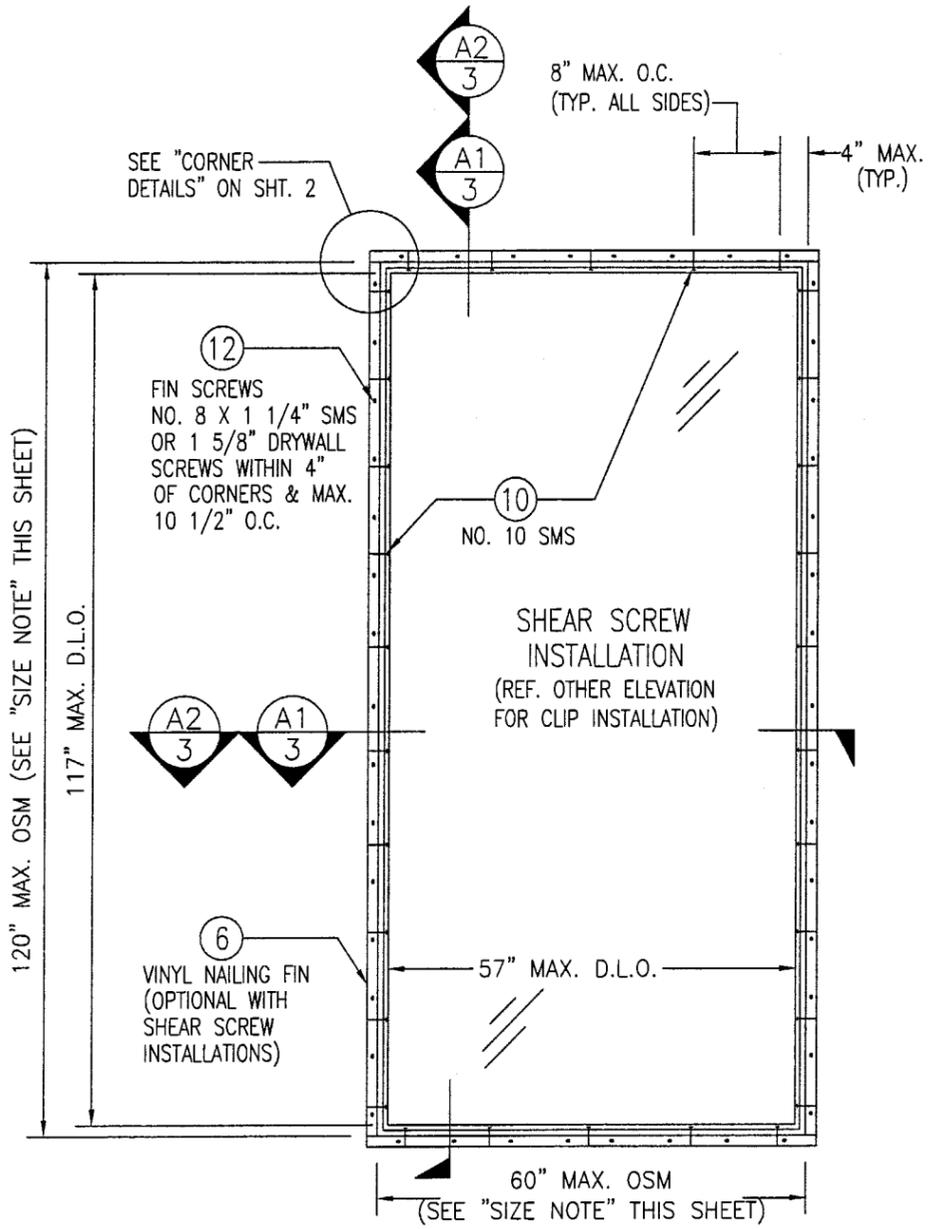
ALLOWABLE DESIGN LOADS
SEE "LOAD TABLE" ON SHEET 5

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"

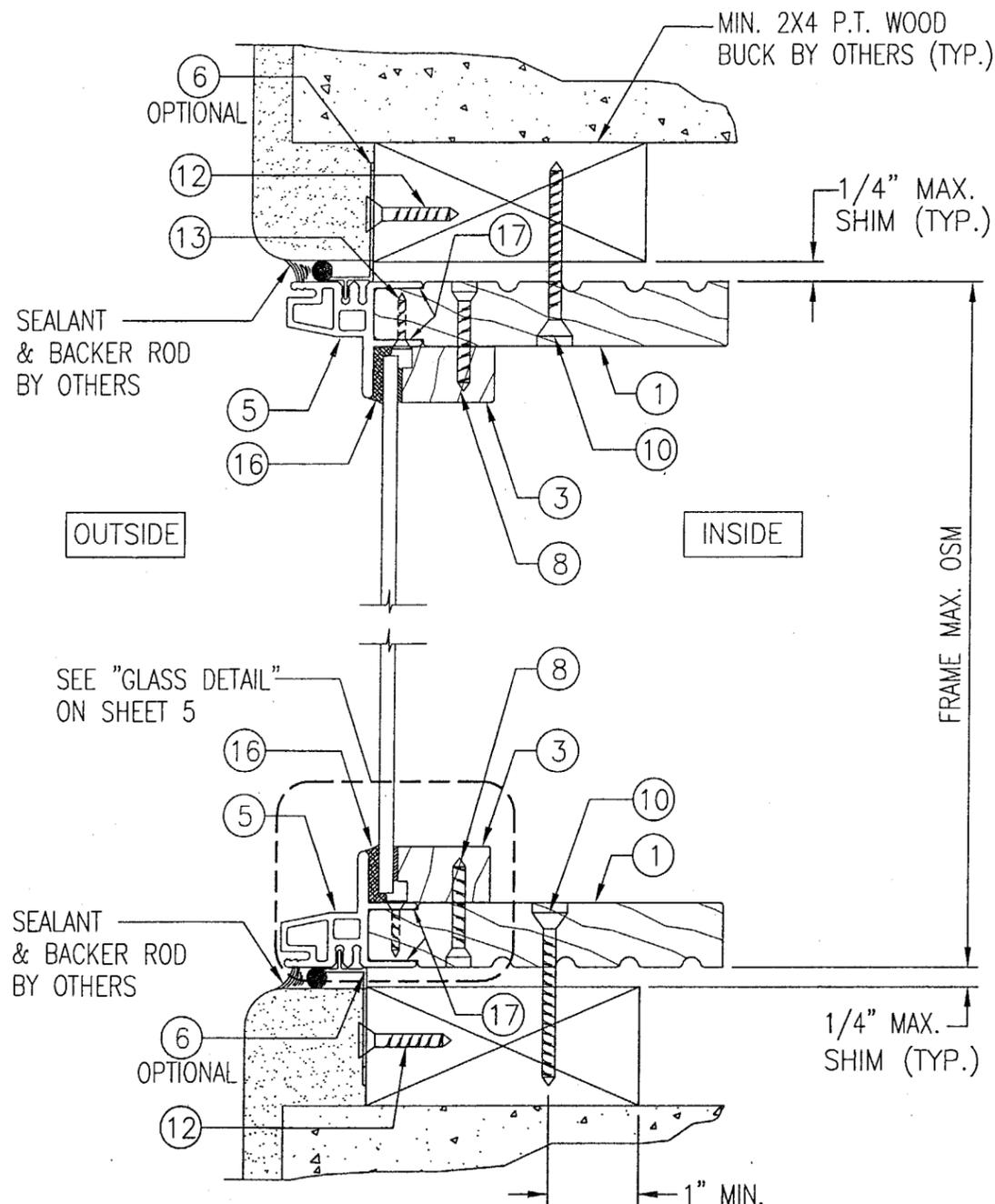


EXTERIOR ELEVATION
RECTANGULAR UNIT
SCALE: 1/2"=1'-0"
(60" X 120" SIZE SHOWN. FOR OTHER APPLICABLE MAXIMUM SIZES, SEE LOAD TABLE ON SHEET 5)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No **04-0211.05**
Expiration Date **APRIL 19, 2009**
By *Manuel Lopez*
Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No **03-0625.08**
Expiration Date **04/19/04**
By *Glenn Egan*
Miami Dade Product Control Division

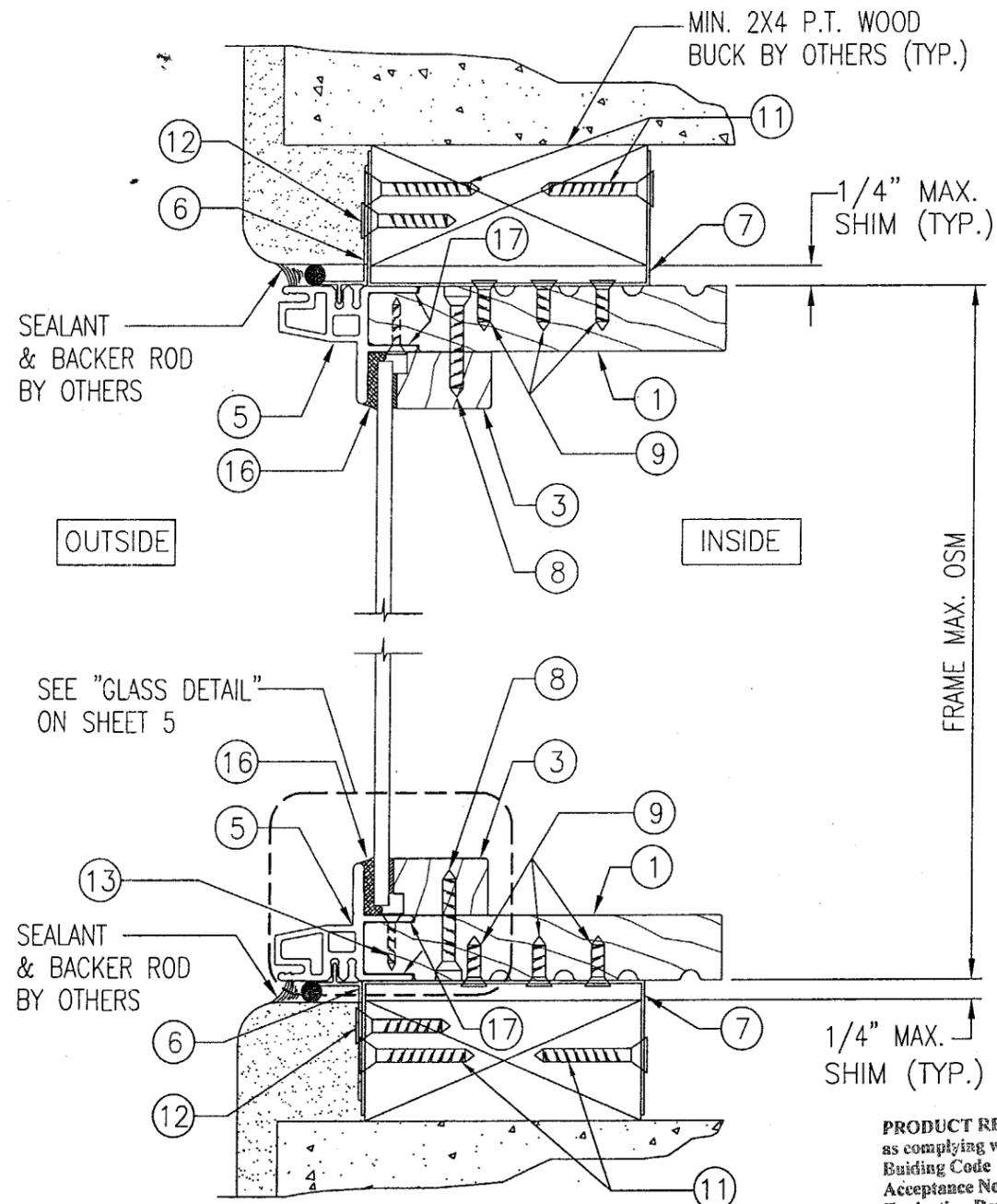
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 05/13/03
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT GLAZED FIXED NON-IMPACT WINDOWS	
MANUFACTURER: KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & 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. NO. 44135
DRAWING NO. 1225B	REV.
SHEET NO. 1	OF 6



SECTION A1

SCALE: HALF FULL SIZE
(NOTE: HORIZONTAL SECTION IS THE SAME)

SHEAR SCREW
INSTALLATION



SECTION A2

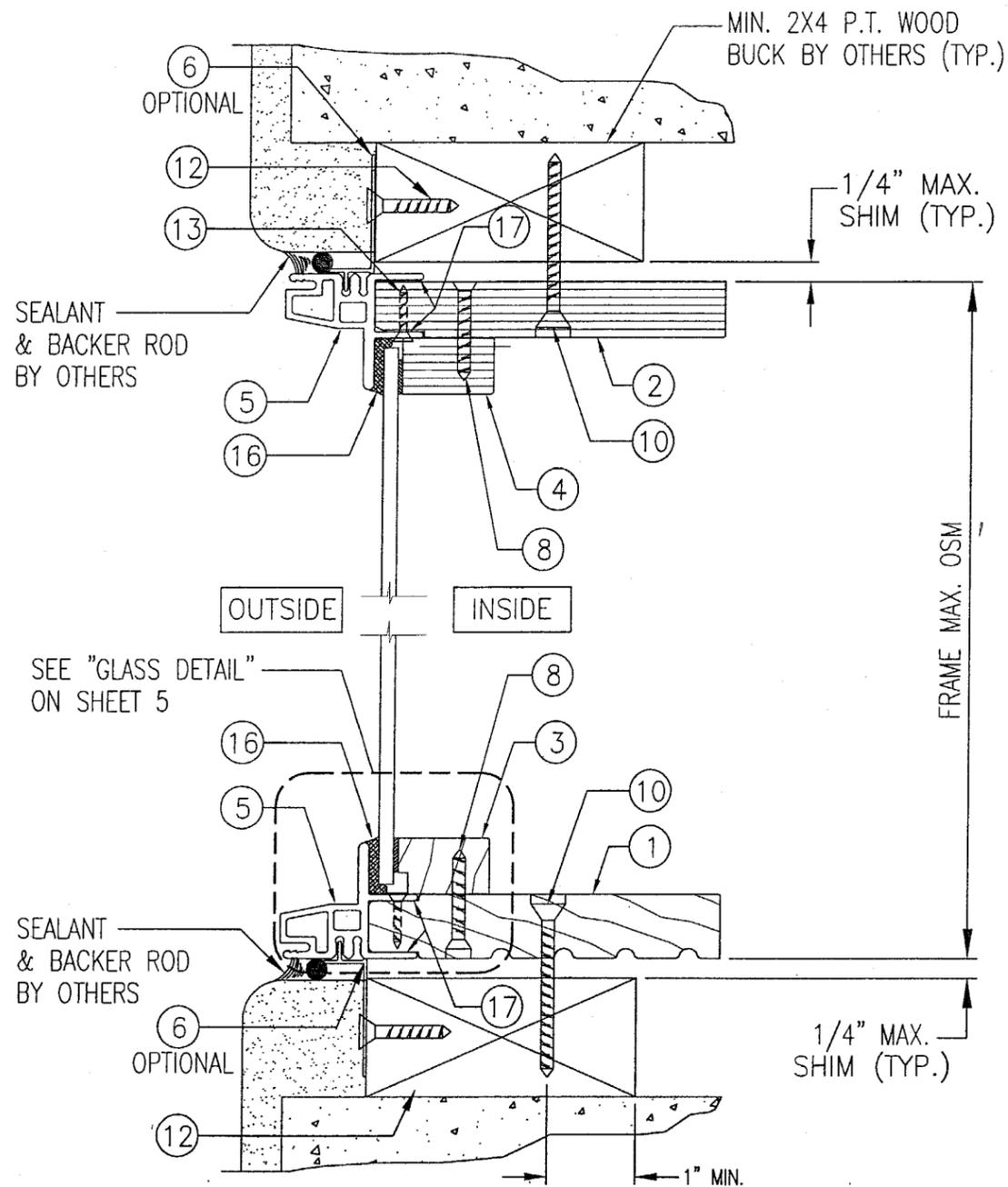
SCALE: HALF FULL SIZE
(NOTE: HORIZONTAL SECTION IS THE SAME)

CLIP
INSTALLATION

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 04-0211-05
Expiration Date APRIL 19, 2009
By *Manuel Jara*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0625-08
Expiration Date 04/19/04
By *Cherian Rama*
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	DATE	BY
DRAWING TITLE ALUMINUM CLAD WOOD DIRECT GLAZED FIXED NON-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 <i>[Signature]</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1225B	
SHEET NO. 3 OF 6		REV.	

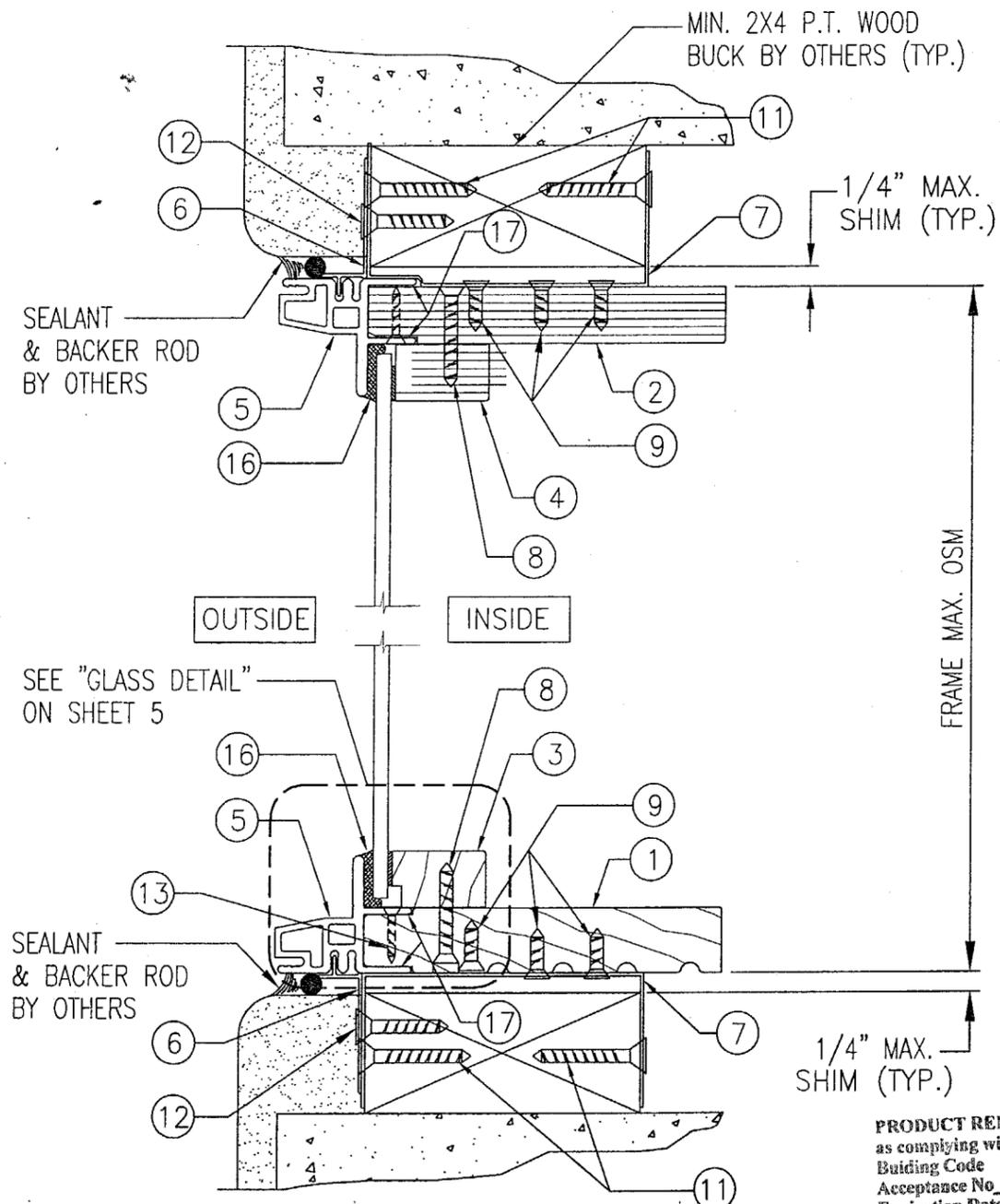


SECTION

B1
4

SCALE: HALF FULL SIZE

SHEAR SCREW
INSTALLATION



SECTION

B2
4

SCALE: HALF FULL SIZE

CLIP
INSTALLATION

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **04-0211-05**
Expiration Date **APRIL 19, 2009**

By *Manuel Perez*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **03-0625-08**
Expiration Date **04/19/09**

By *Alfredo Palma*
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	DATE	BY
DRAWING TITLE ALUMINUM CLAD WOOD DIRECT GLAZED FIXED NON-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 2004 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO.	REV.		
1225B			
SHEET NO.			
4 OF 6			

DESIGN LOAD CAPACITY (PSF)			
WINDOW SIZE (OSM)		GLASS 20	
SHORT SIDE	LONG SIDE	POS	NEG
24"	36"	100	200
30"		100	160
36"		100	133
24"	48"	100	200
30"		100	160
36"		100	133
42"		100	114
48"		88	100
24"	60"	100	188
30"		100	160
36"		100	133
42"		100	114
48"		88	100
54"		78	89
60"		70	80
66"		64	73
24"	72"	100	180
30"		100	152
36"		100	133
42"		100	114
48"		88	100
54"		78	89
60"		70	80
66"		64	73
72"		58	67
24"		84"	100
30"	100		146
36"	100		127
42"	100		114
48"	88		100
54"	78		89
60"	70		80
66"	64		73

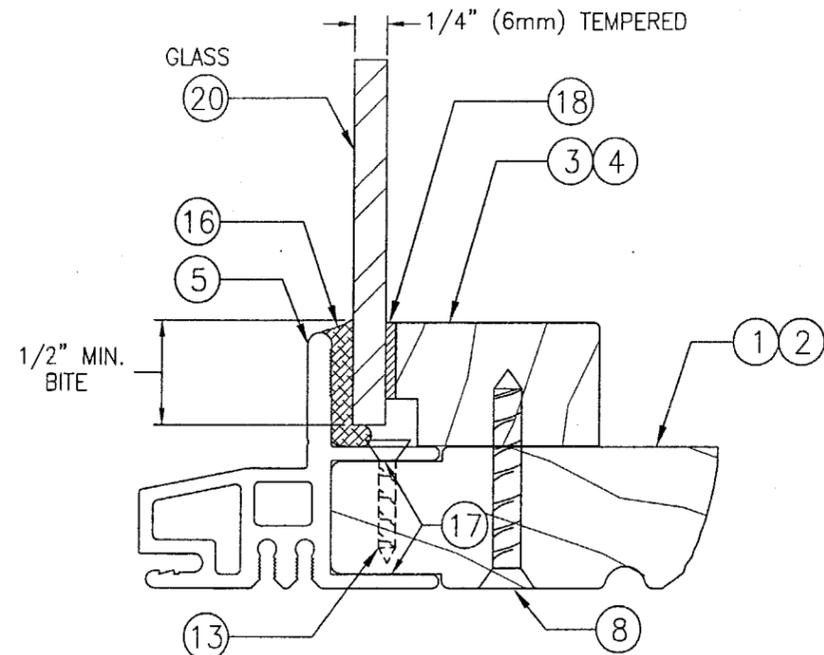
DESIGN LOAD CAPACITY (PSF)			
WINDOW SIZE (OSM)		GLASS 20	
SHORT SIDE	LONG SIDE	POS	NEG
24"	96"	100	171
30"		100	142
36"		100	123
42"		96	102
48"		88	95
54"		78	89
60"		70	80
66"		64	73
72"		58	67
24"	108"	100	169
30"		100	139
36"		100	120
42"		93	93
48"		81	81
54"		78	79
60"		70	79
66"		64	73
24"	120"	100	167
30"		100	137
36"		100	116
42"		86	86
48"		73	73
54"		69	69
60"		68	68
66"		64	64
24"	132"	100	165
30"		100	135
36"		100	112
42"		82	82
48"		67	67
54"		60	60
60"		60	60
66"		60	60
24"	144"	100	164
30"		100	133
36"		97	108
42"		79	79
48"		79	79
48"		62	62

GLASS 20 = 1/4" (6 mm) TEMPERED

NOTE: HEIGHT & WIDTH CAN BE INTERCHANGED

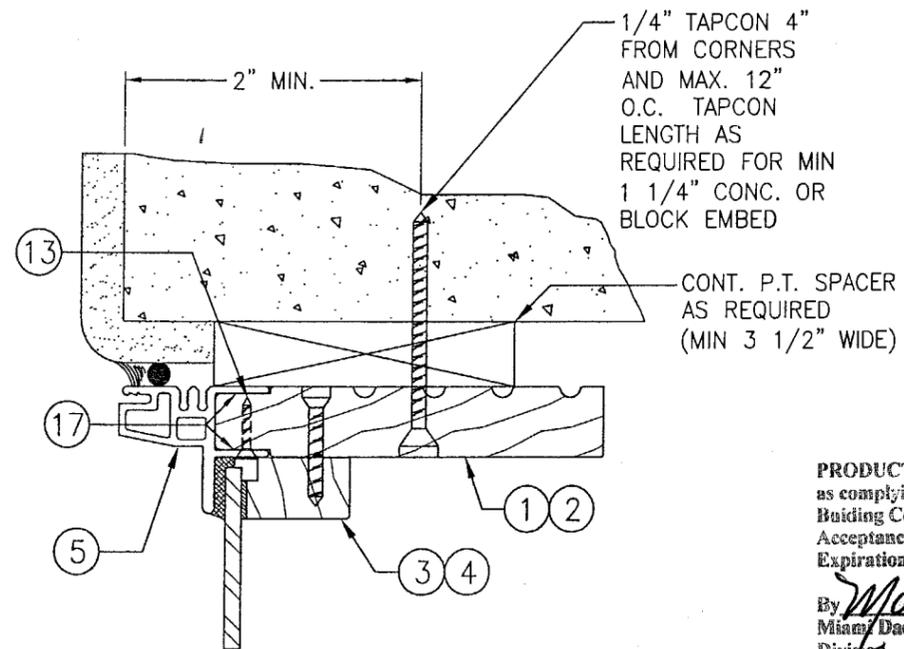
NOTES:

1. THE LOADS IN THESE TABLES ARE AS DETERMINED BY TESTING & COMPARATIVE ANALYSIS WITH THE CONTROLLING FACTOR BEING THE WORSE CASE OF GLASS SIZE & AREA, UNIT AREA, OR FASTENER CAPABILITY.
2. THE LOADS IN THESE TABLES MAY NOT BE INTERPOLATED.
3. THE PRESSURES IN THESE TABLES CONSIDER A JAMB FASTENER SPACING OF 8" O.C. PRESSURES MUST BE REDUCED TO +/-62 PSF IF 12" SPACING IS USED.



TYPICAL GLASS & GLAZING DETAIL

SCALE: FULL SIZE



OPTIONAL JAMB DETAIL FOR DIRECT MOUNT TO CONCRETE OR BLOCK

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

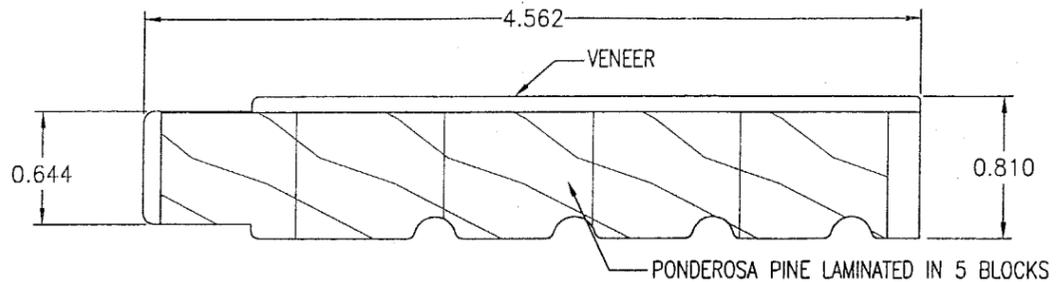
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 04-0211.05
Expiration Date APRIL 13, 2009

By *Manuel Perez*
Miami Dade Product Control
Division

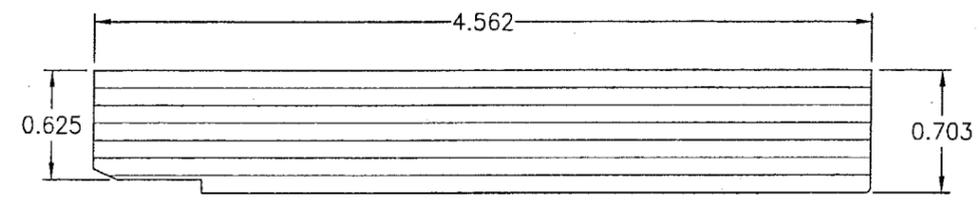
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0625.08
Expiration Date 04/19/09

By *Chandra Kumar*
Miami Dade Product Control
Division

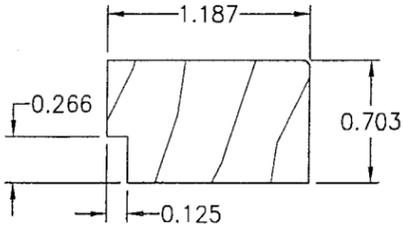
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 05/13/03
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD DIRECT GLAZED FIXED NON-IMPACT WINDOWS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 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. 1225B	REV.
SHEET NO. 5 OF 6	



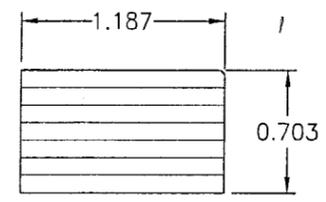
① **LINEAL WOOD FRAME JAMB**
PONDEROSA PINE



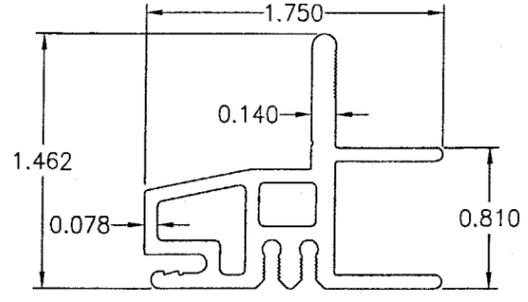
② **RADIAL WOOD FRAME JAMB**
(LAMINATED VENEER)



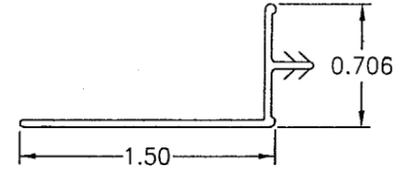
③ **LINEAL WOOD GLAZING STOP**
PONDEROSA PINE



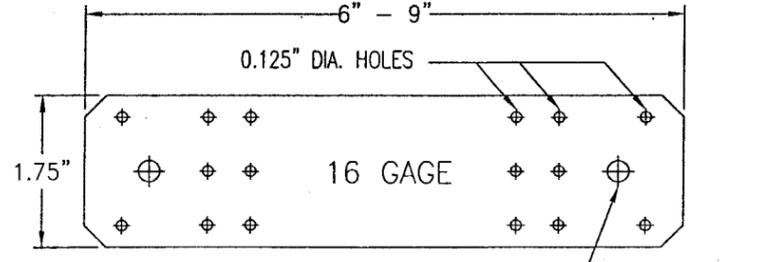
④ **RADIAL WOOD GLAZING STOP**
(LAMINATED VENEER)



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)
20	-	1/4" (6mm) THICK TEMPERED GLASS	



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. 04-0211.05
Expiration Date APRIL 19, 2009

By Manuel Perez
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0625.08
Expiration Date 04/19/09

By Charles Brown
Miami Dade Product Control
Division

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

NO.	REVISION DESCRIPTION	DATE	BY

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT GLAZED FIXED NON-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
DRAWING NO. 1225B
SHEET NO. 6 OF 6
REV. P.E. WARREN W. SCHAEFER, P.E. NO. 44133