



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

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

Your application for Notice of Acceptance (NOA) of:

Aluminum Clad Outswing Wood French Doors - Non-Impact and Impact Resistant

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 00-1030.02
EXPIRES: 04/26/2004

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 04/26/2001

KML Windows, Inc

ACCEPTANCE No.: 00-1030.02

APPROVED : APR 26 2001

EXPIRES : APR 26 2004

NOTICE OF ACCEPTANCE SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This approves a wood French door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The **Aluminum Clad Outswing Wood French Door –Non-Impact and Impact Resistant** and its components shall be constructed in strict compliance with the following documents: Drawing No **1003D**, Sheets 1 through 13 of 13, titled "Aluminum Clad Wood French Doors (Dade)", dated 09/05/00, signed and sealed by Warren W. Schaefer, P.E. bearing the Miami-Dade County Product Control approval and renewal stamps with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

4. INSTALLATION

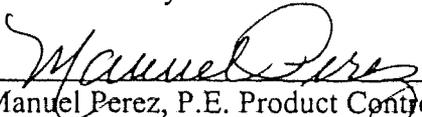
- 4.1 The wood swing doors and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters): to determine whether the installation requires a hurricane protection system or not, see corresponding table in approved drawing.

5. LABELING

- 5.1 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".

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

KML Windows, Inc

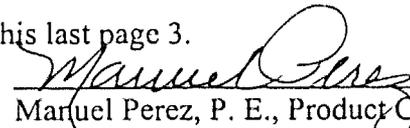
ACCEPTANCE No.: 00-1030.02

APPROVED : APR 26 2001

EXPIRES : APR 26 2004

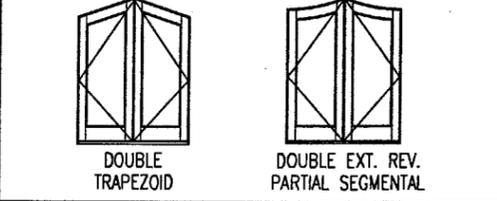
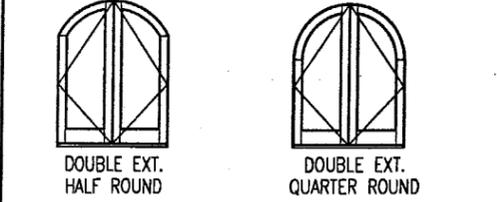
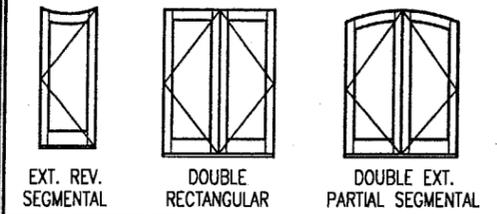
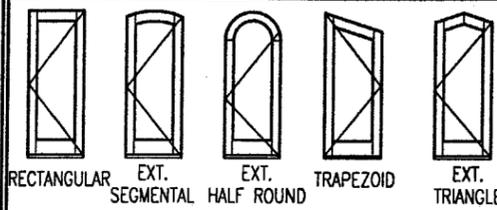
NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.



Manuel Perez, P. E., Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE



SHAPES CONSIDERED AS PART OF THIS APPROVAL FOR BOTH IMPACT & NON-IMPACT

NOTE: FOR COMBINATION OF UNITS, SEE SHT. 3 & MULLION DRAWING NO. 1003E

| ALLOWABLE DESIGN LOADS | |
|------------------------|--|
| NON-IMPACT UNITS | SEE "NON-IMPACT LOAD TABLES" ON SHEET 12 |
| IMPACT UNITS | +65 PSF/-70 PSF |

FOR JAMB FASTENER EMBED & EDGE DISTANCE REQUIREMENTS SEE SHEET 3

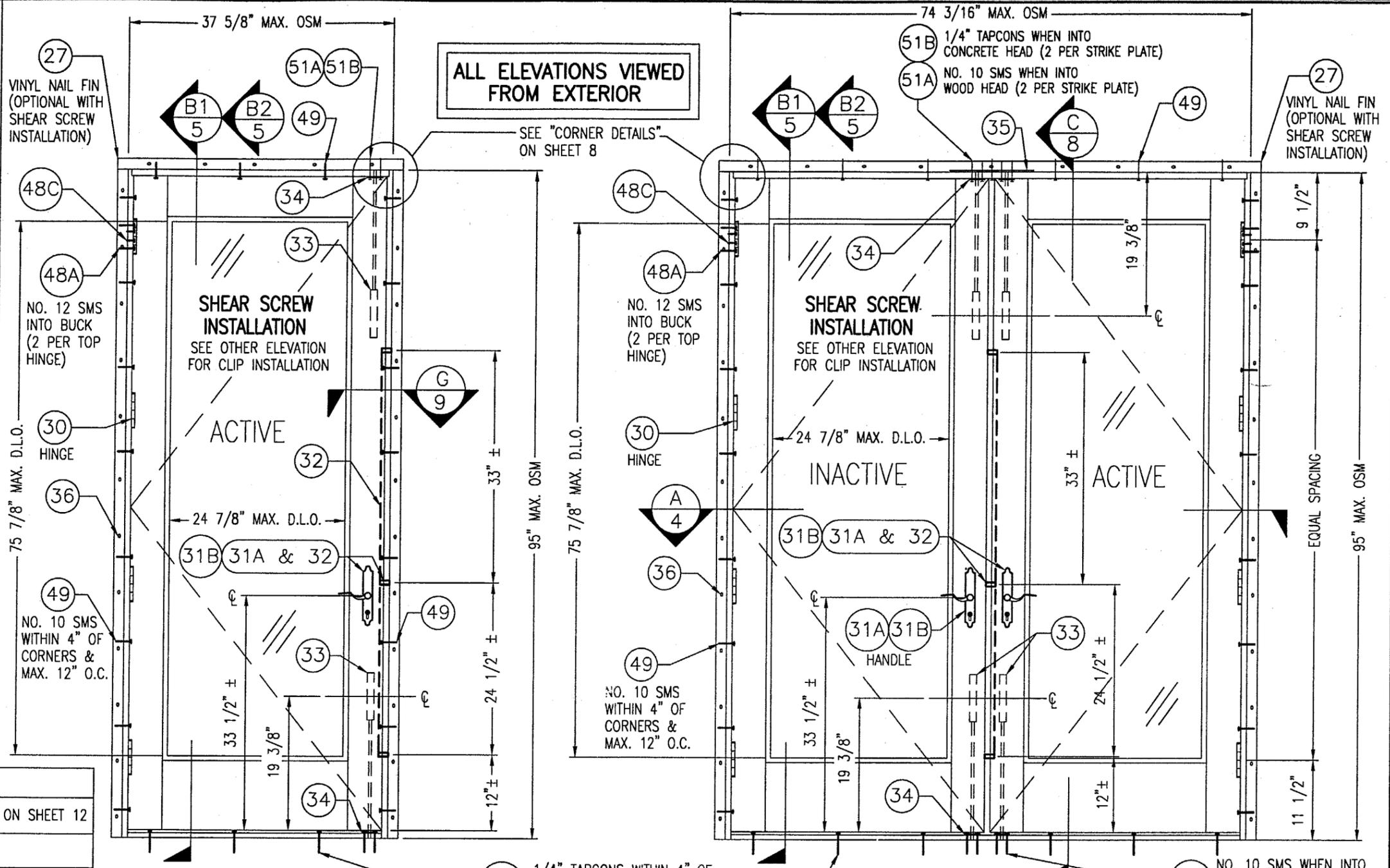
GENERAL NOTES

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN ON THESE DRAWINGS.
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 DADE COUNTY PROTOCOLS PA 201, 202 & 203 FOR BOTH IMPACT & 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 DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE, 1994 EDITION.
7. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH DADE COUNTY PROTOCOLS PA-201, PA-202 & PA-203 FOR LARGE MISSILE IMPACT, STRUCTURAL & CYCLIC TESTING.
8. FOR ALL NON-IMPACT WINDOWS, MIAMI-DADE COUNTY APPROVED SHUTTERS ARE REQUIRED.

37 5/8" X 95" SINGLE RECTANGULAR FRENCH DOOR
SCALE: 3/4" = 1'-0"

74 3/16" X 95" DOUBLE RECTANGULAR FRENCH DOOR
SCALE: 3/4" = 1'-0"



ALL ELEVATIONS VIEWED FROM EXTERIOR

SEE "CORNER DETAILS" ON SHEET 8

| ALLOWABLE DESIGN LOADS | |
|------------------------|--|
| NON-IMPACT UNITS | SEE "NON-IMPACT LOAD TABLES" ON SHEET 12 |
| IMPACT UNITS | +65 PSF/-70 PSF |

FOR JAMB FASTENER EMBED & EDGE DISTANCE REQUIREMENTS SEE SHEET 3

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

74 3/16" X 95" DOUBLE RECTANGULAR FRENCH DOOR
SCALE: 3/4" = 1'-0"

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| DRAWN BY: W.W.S. | DATE: 09/05/00 |
| CHECKED BY: W.W.S. | DATE: 03/29/01 |
| PLOT: 1=16 | |

| NO. | DATE | REVISION DESCRIPTION |
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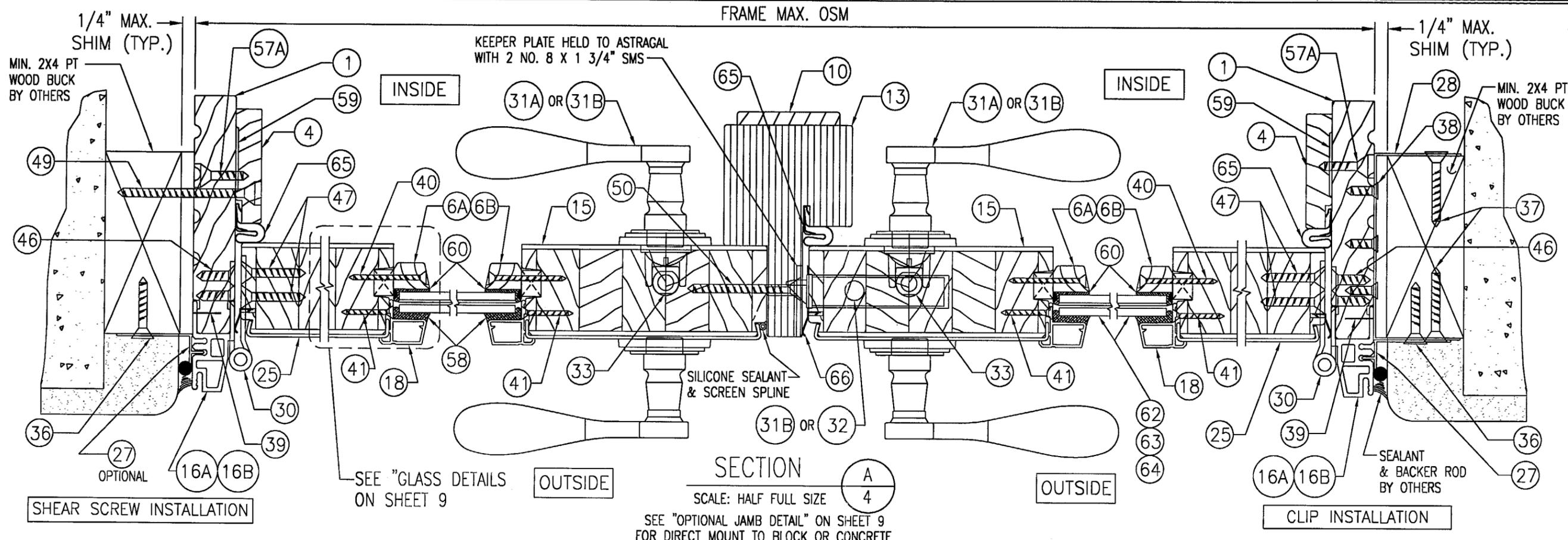
ALUMINUM CLAD WOOD FRENCH DOORS (DADE)
MANUFACTURER: KML WINDOWS, INC.
23 BUCHANAN COURT
LONDON, ONTARIO, CANADA N5Z4P9
(519)681-7012

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
MAR 30 2001
WARREN A. SCHAEFER, P.E.
P.E. NO. 44135

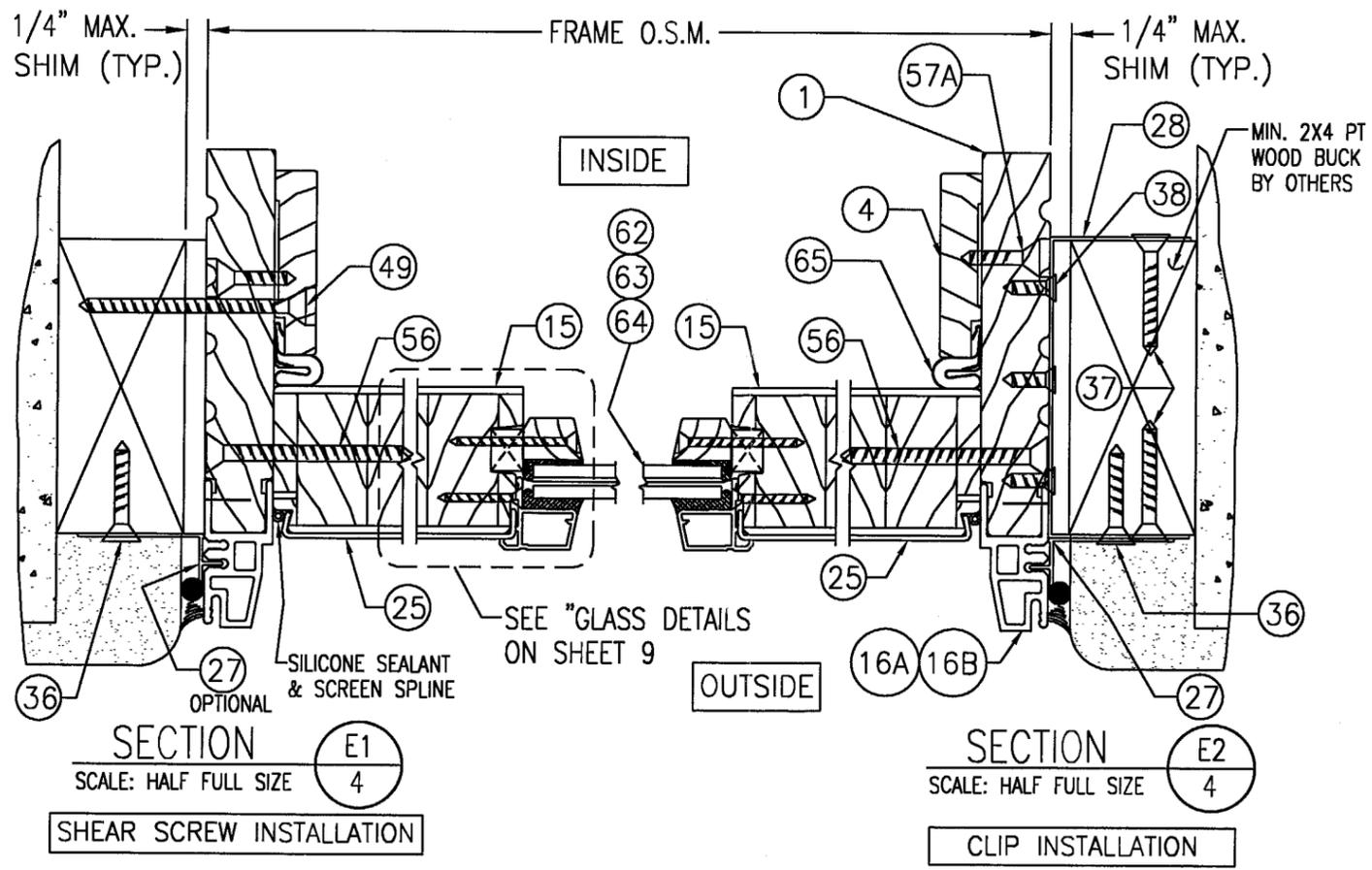
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| DRAWING NO. 1003D | REV. |
| SHEET NO. 1 | OF 13 |

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: APR 26 2001
BY: [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1030.02



SEE "GLASS DETAILS ON SHEET 9"

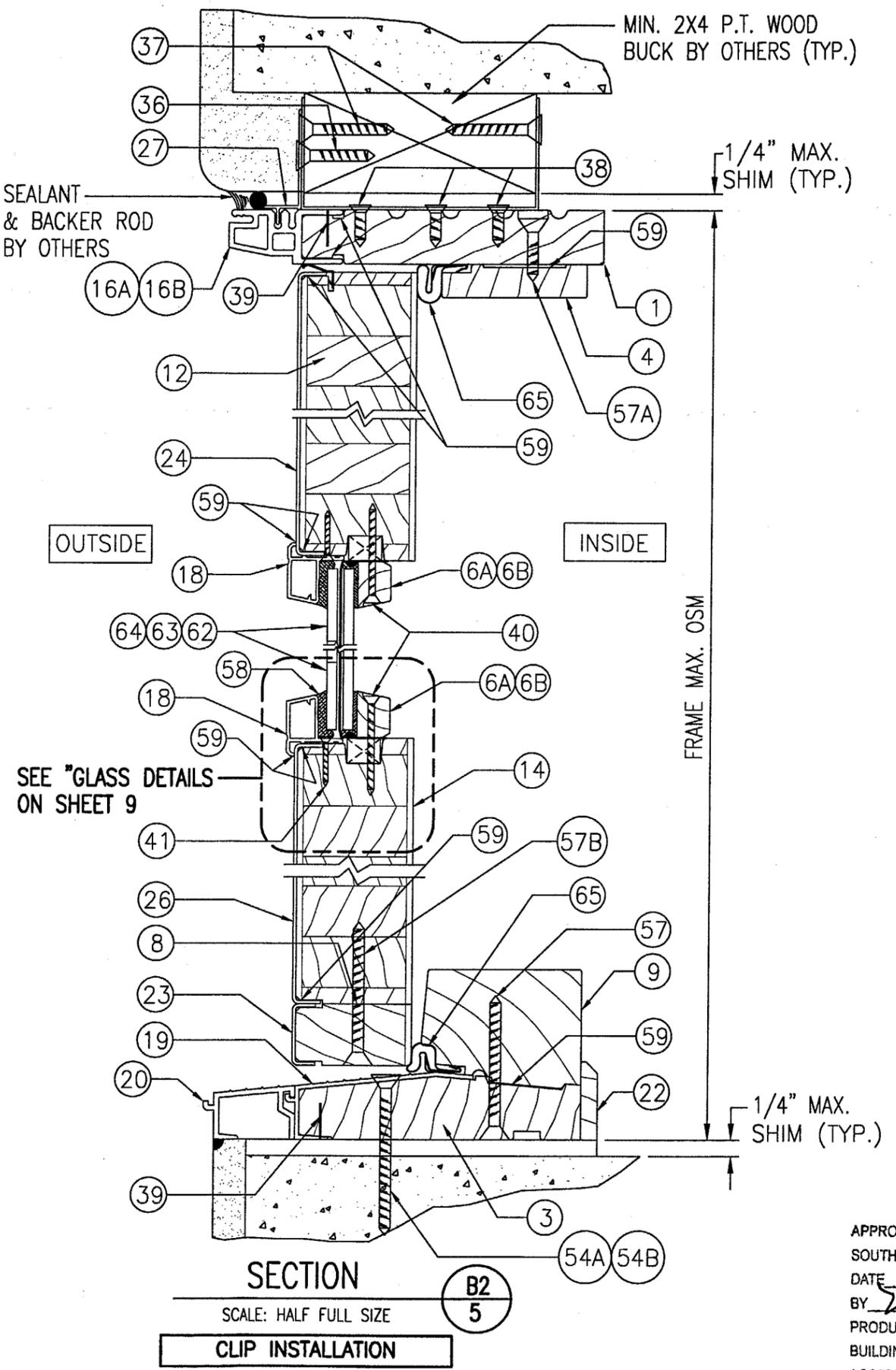
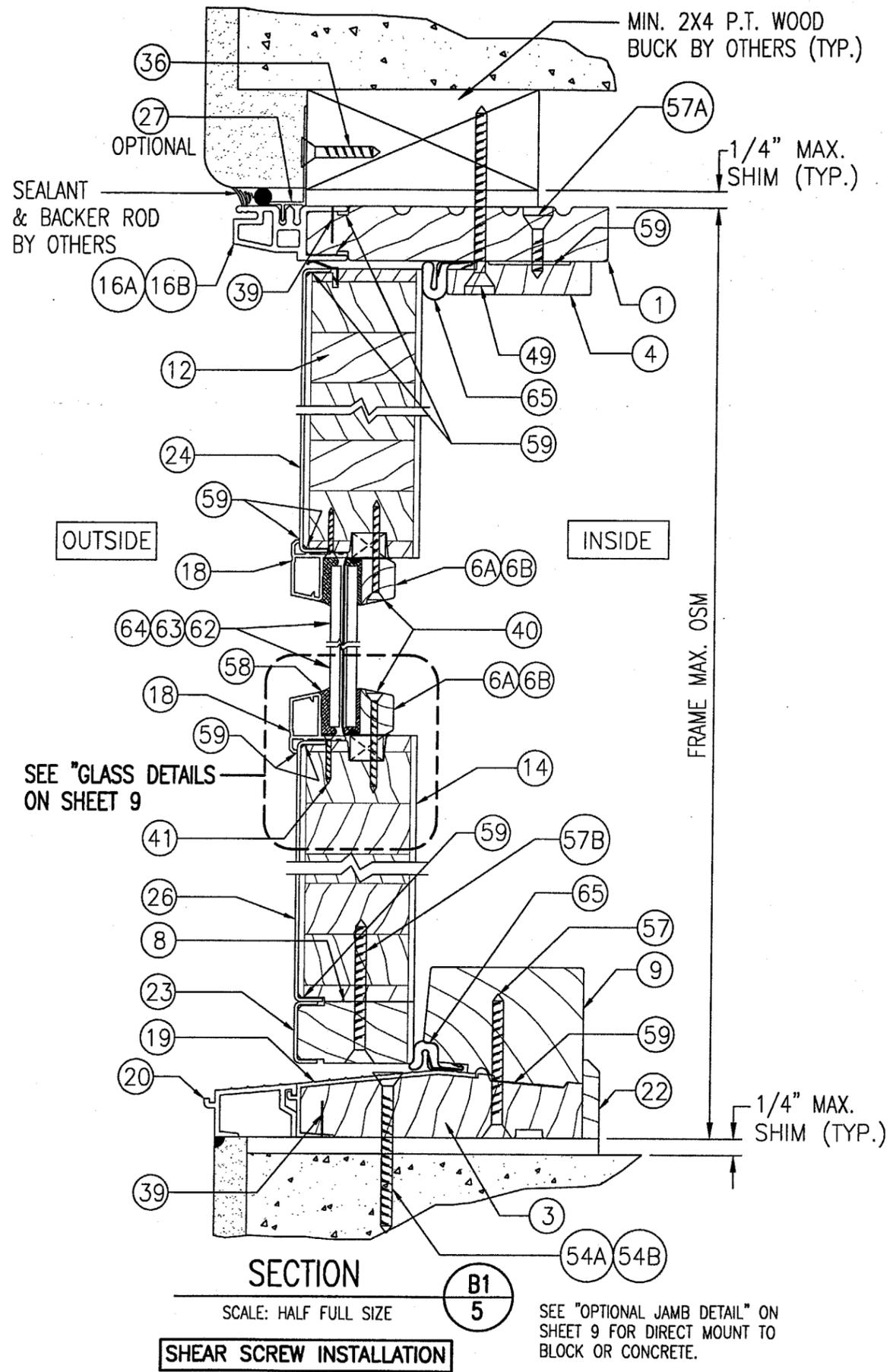
SEE "OPTIONAL JAMB DETAIL" ON SHEET 9 FOR DIRECT MOUNT TO BLOCK OR CONCRETE



SEE "GLASS DETAILS ON SHEET 9"

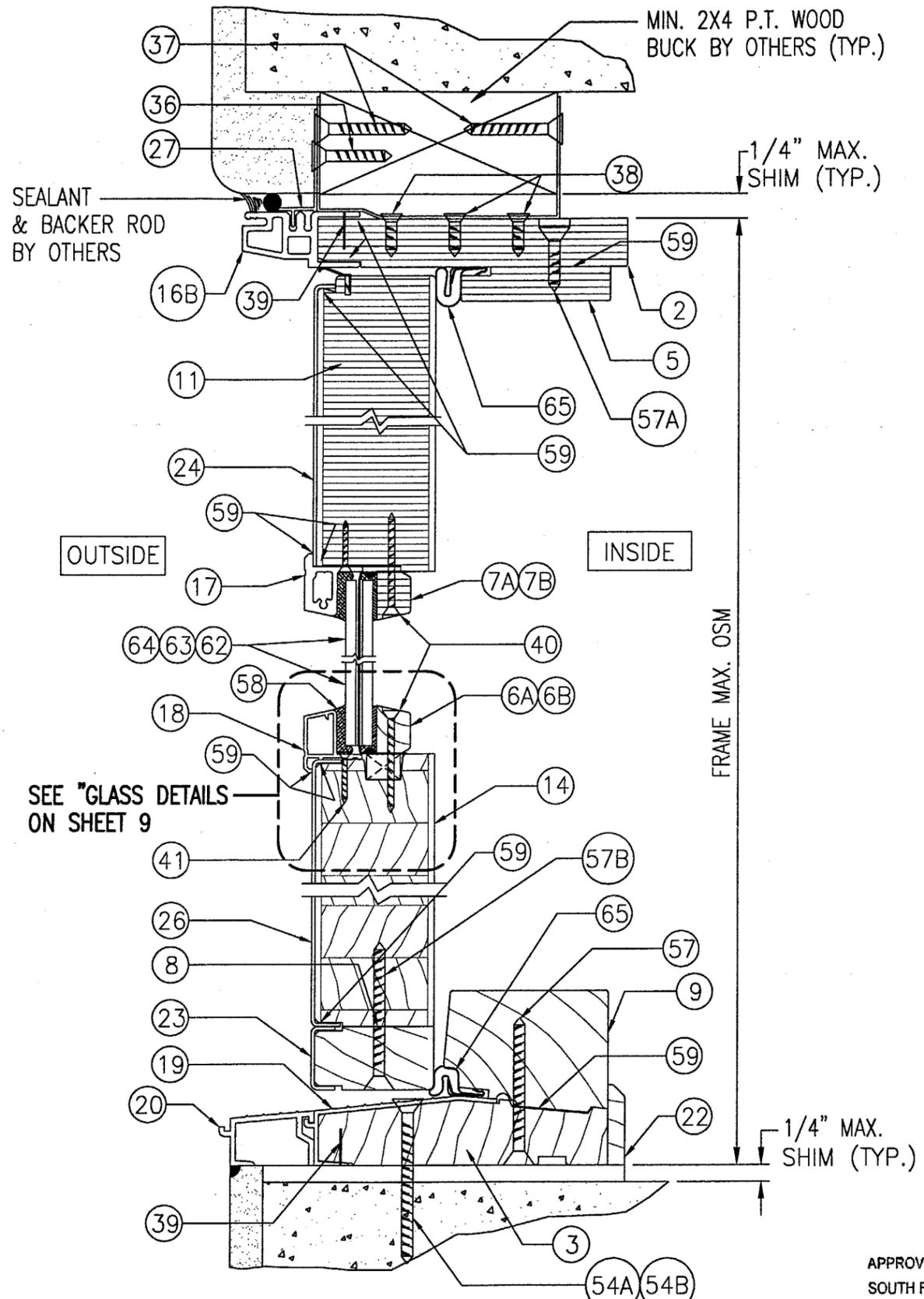
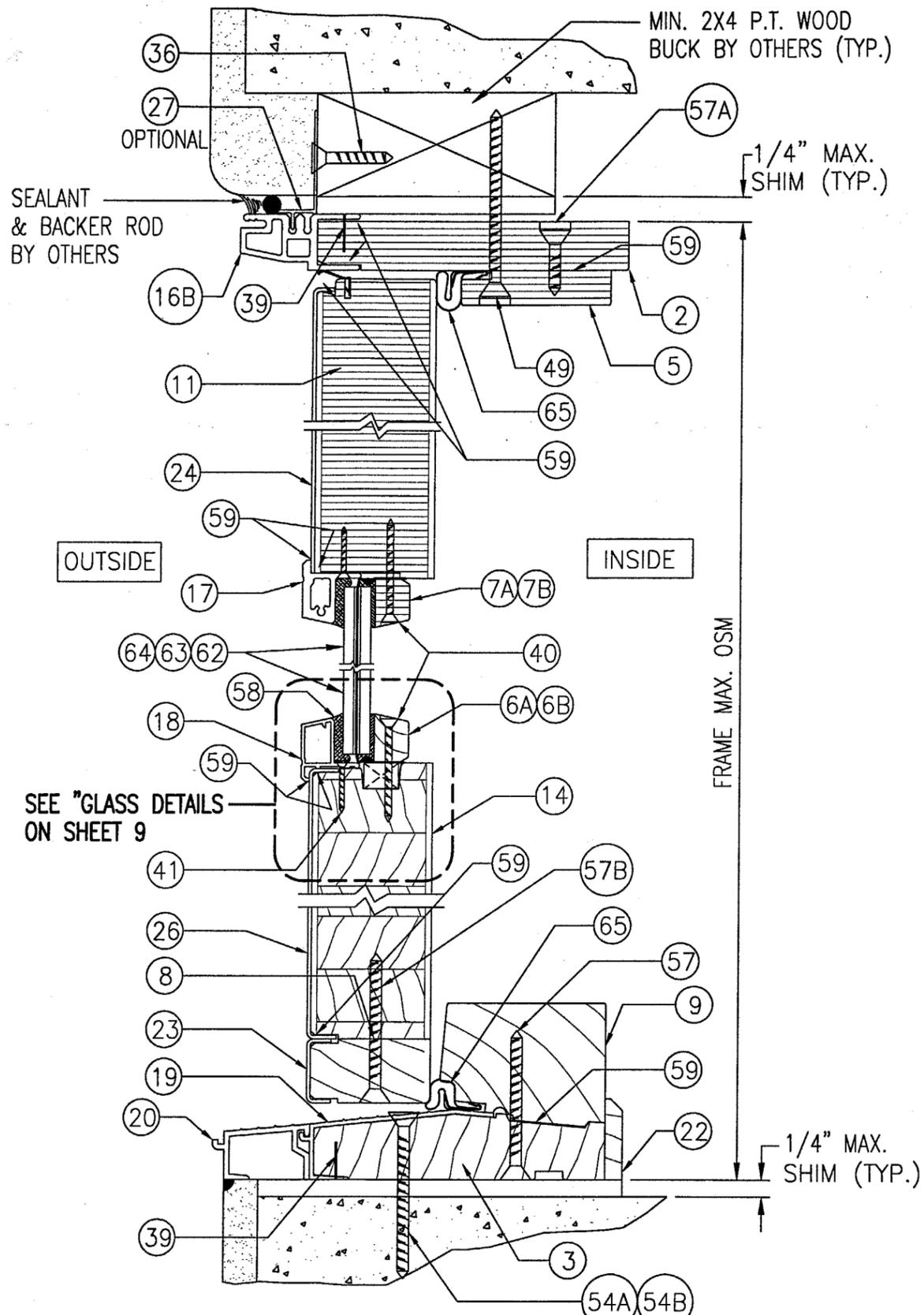
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 DATE **APR 26 2001**
 BY *Warren W. Schaefer*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-1030.02

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| DRAWN BY: W.W.S. | | DATE: 09/05/00 | |
| CHECKED BY: W.W.S. | | DATE: 03/29/01 | |
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| NO. | REVISION DESCRIPTION | BY | DATE |
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| (DATE) | | | |
| DRAWING TITLE | | MANUFACTURER | |
| ALUMINUM CLAD WOOD FRENCH DOORS | | KML WINDOWS, INC. | |
| CONSULTANTS | | 23 BUCHANAN COURT | |
| W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | LONDON, ONTARIO, CANADA N5Z4P9 | |
| 600 SANDTREE DRIVE, SUITE 203B | | (519)681-7012 | |
| PALM BEACH GARDENS, FL 33403 | | | |
| PHONE: 561-775-4902 | | FAX: 561-775-4903 | |
| CERTIFICATION | | P.E. NO. 44135 | |
| MAR 03 2001 | | WARREN W. SCHAEFER, P.E. | |
| DRAWING NO. 1003D | | REV. 4 | |
| SHEET NO. 4 | | OF 13 | |



APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE **APR 26 2001**
 BY *Warren W. Schaefer*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. **00-1030.02**

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| CHECKED BY: W.W.S. | | DATE: 03/29/01 | |
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| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| DRAWING TITLE: ALUMINUM CLAD WOOD FRENCH DOORS | | (DATE) | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | MANUFACTURER: KML WINDOWS, INC. | |
| 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | | 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519)681-7012 | |
| CERTIFICATION | MAR 30 2001 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | |
| DRAWING NO. | REV. | | |
| 1003D | | | |
| SHEET NO. | | | |
| 5 | OF 13 | | |

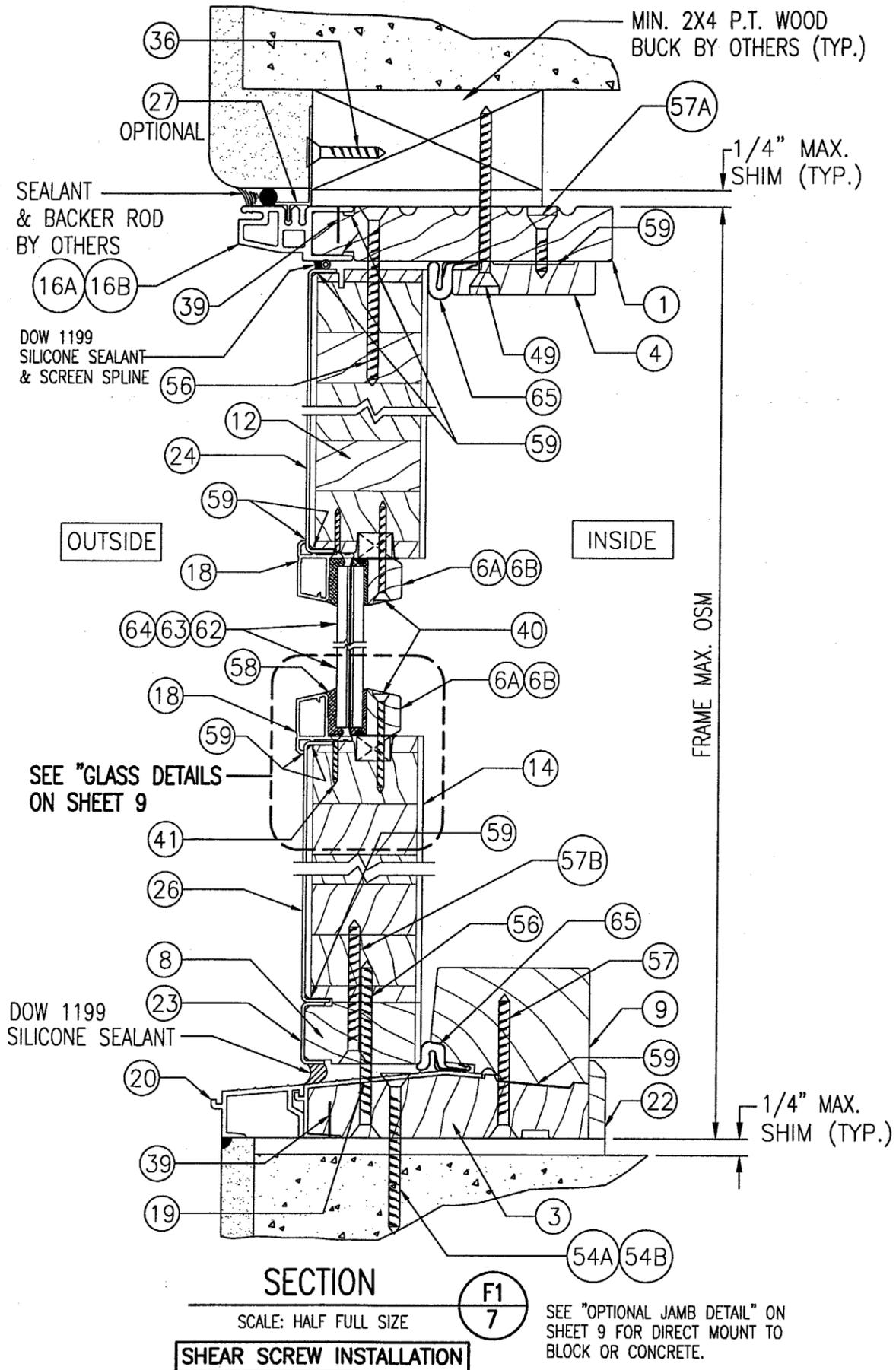


SECTION D1
 SCALE: HALF FULL SIZE
SHEAR SCREW INSTALLATION
 SEE "OPTIONAL JAMB DETAIL" ON SHEET 9 FOR DIRECT MOUNT TO BLOCK OR CONCRETE.

SECTION D2
 SCALE: HALF FULL SIZE
CLIP INSTALLATION

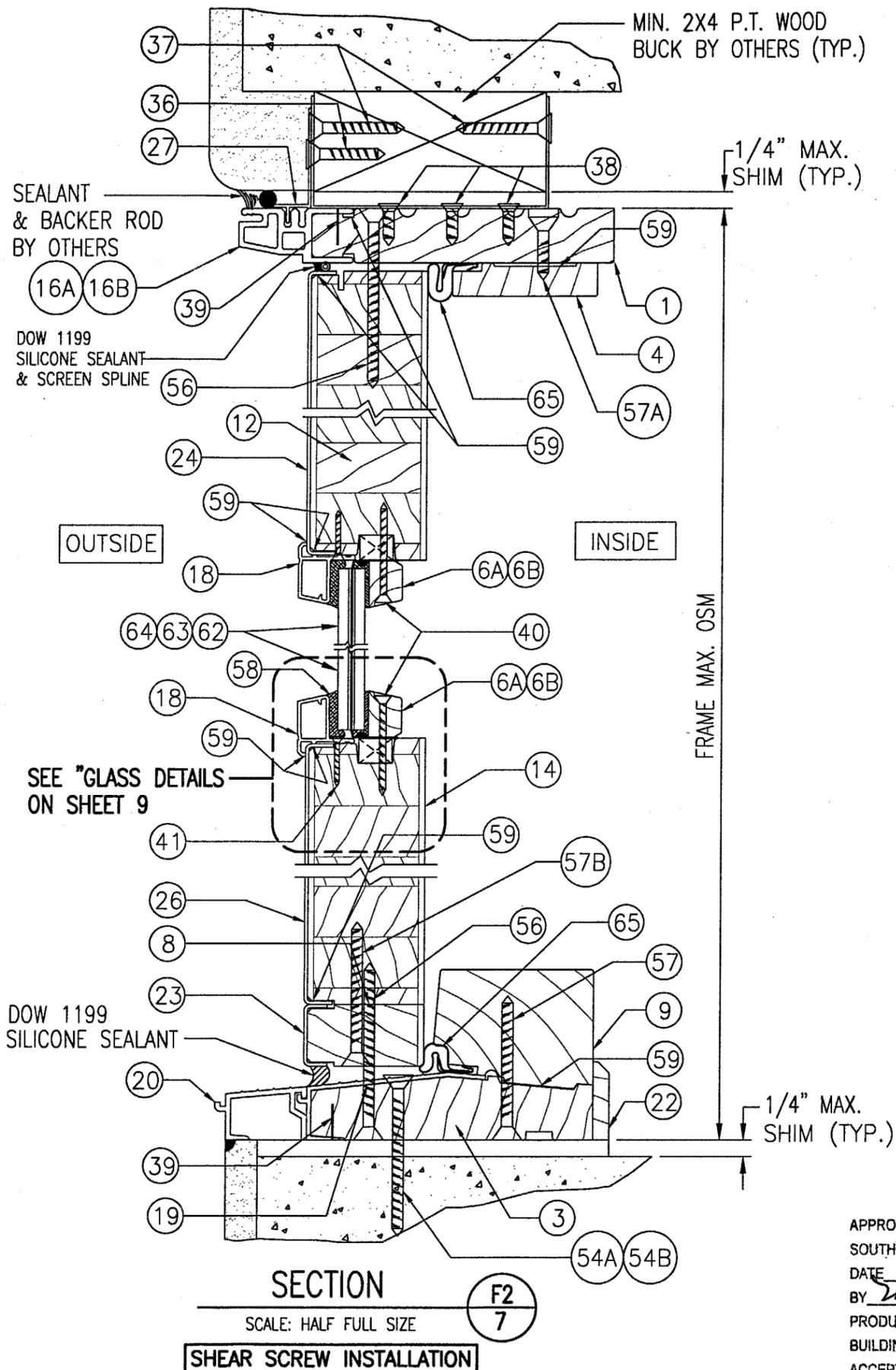
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE **APR 26 2001**
 BY *Warren W. Schaefer*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. **00-1030.02**

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| DRAWN BY: W.W.S. | | DATE: 09/05/00 | |
| CHECKED BY: W.W.S. | | DATE: 03/29/01 | |
| PLOT: 2:1 | | | |
| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| DRAWING TITLE ALUMINUM CLAD WOOD FRENCH DOORS | | (DADE) | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | MANUFACTURER KML WINDOWS, INC. | |
| 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | | 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519)681-7012 | |
| CERTIFICATION MAR 30 2001 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | | |
| DRAWING NO. 1003D | REV. | SHEET NO. | |
| 6 | OF | 13 | |



SHEAR SCREW INSTALLATION

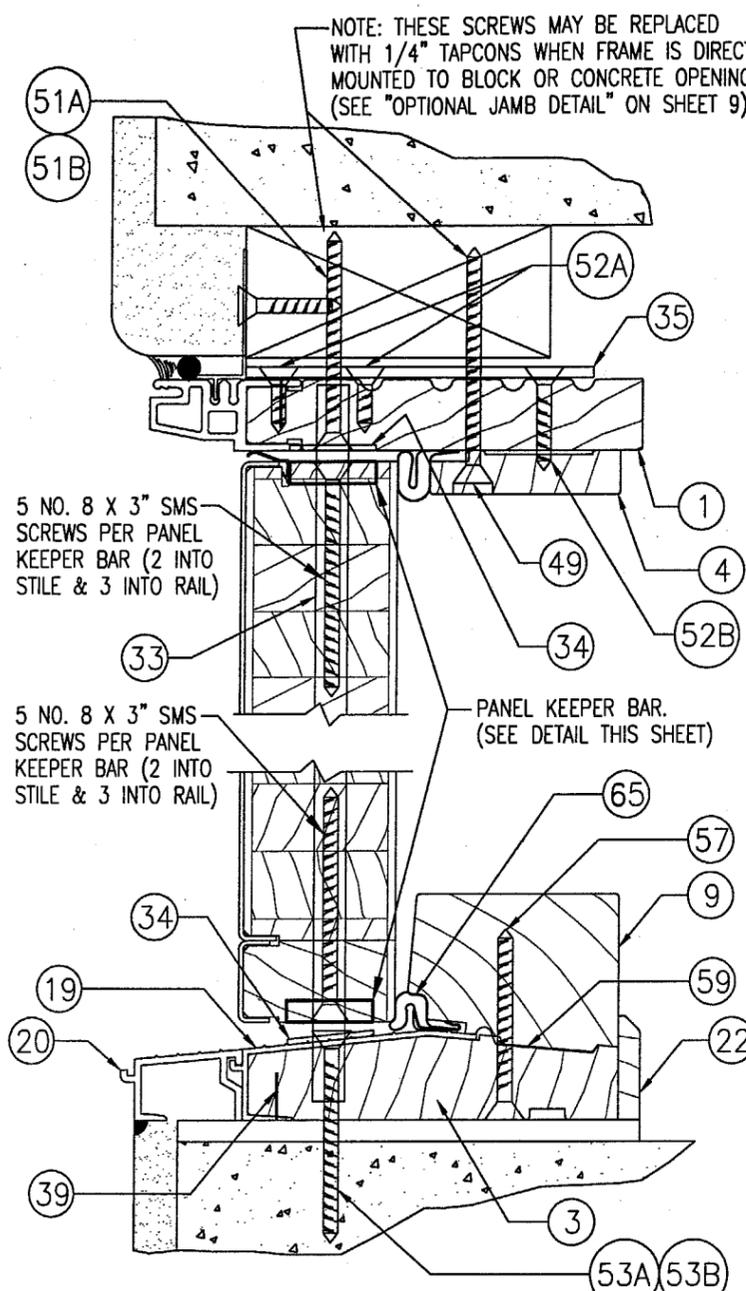
SEE "OPTIONAL JAMB DETAIL" ON SHEET 9 FOR DIRECT MOUNT TO BLOCK OR CONCRETE.



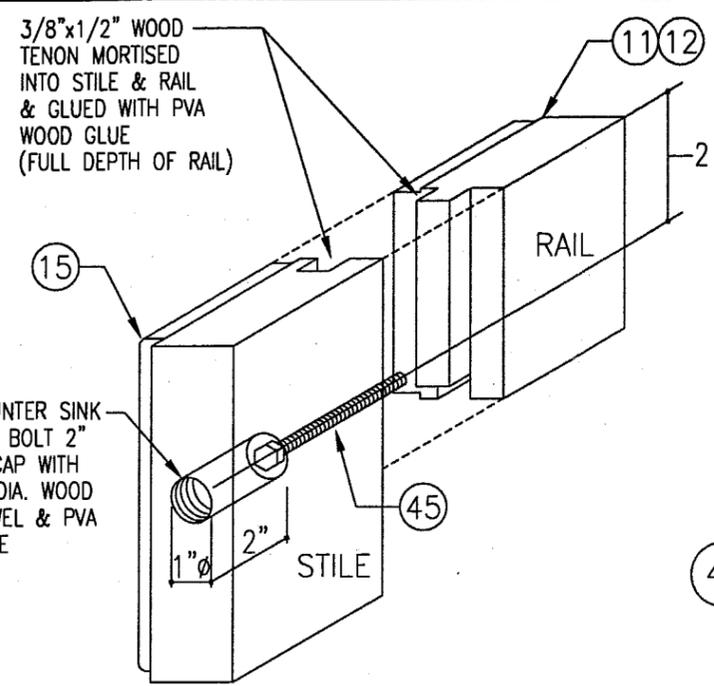
SHEAR SCREW INSTALLATION

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
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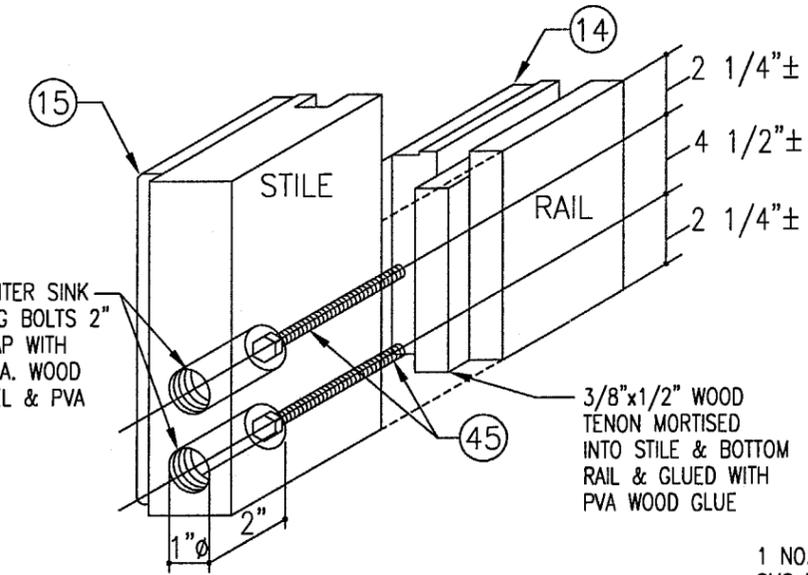
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| DRAWN BY: W.W.S. | | DATE: 09/05/00 | |
| CHECKED BY: W.W.S. | | DATE: 03/29/01 | |
| PLOT: 2:1 | | | |
| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| DRAWING TITLE: ALUMINUM CLAD WOOD FRENCH DOORS | | | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | MANUFACTURER: KML WINDOWS, INC. | |
| 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | | 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519)681-7012 | |
| CERTIFICATION | MAR 30 2001 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | |
| DRAWING NO. | 1003D | REV. | |
| SHEET NO. | 7 | OF 13 | |



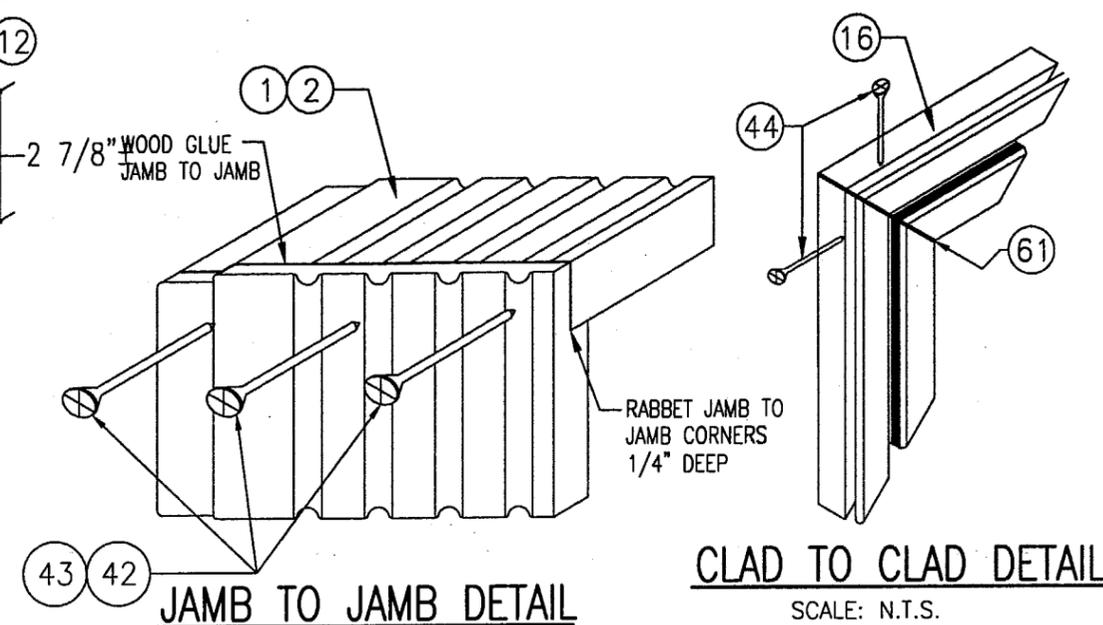
SECTION @ STRIKE PLATES
SCALE: HALF FULL SIZE



STILE TO TOP RAIL CORNER DETAIL
SCALE: N.T.S.

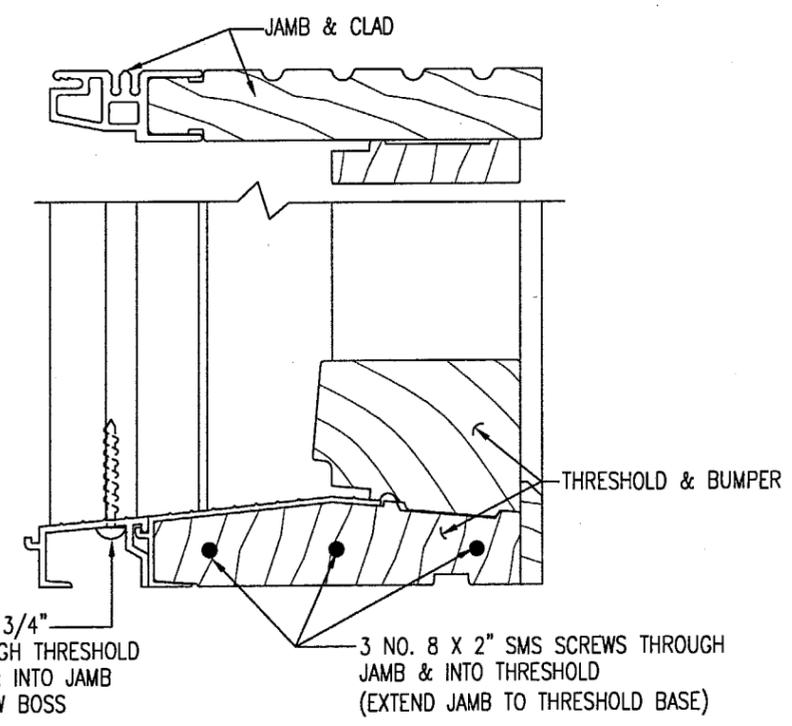


STILE TO BOTTOM RAIL CORNER DETAIL
SCALE: N.T.S.

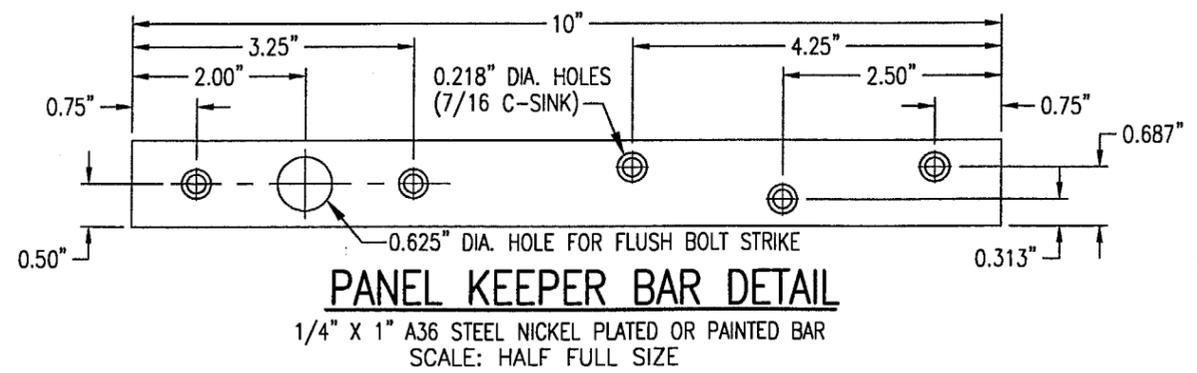


JAMB TO JAMB DETAIL
SCALE: N.T.S.

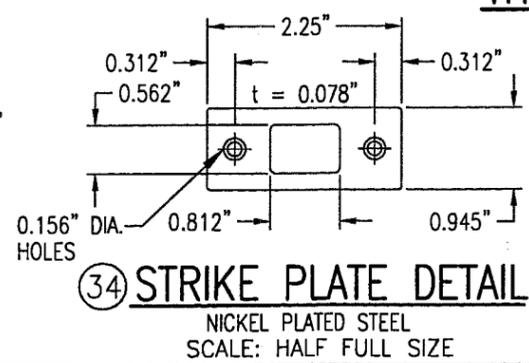
JAMB CORNER DETAILS
SCALE: N.T.S.



THRESHOLD TO JAMB CORNER DETAIL

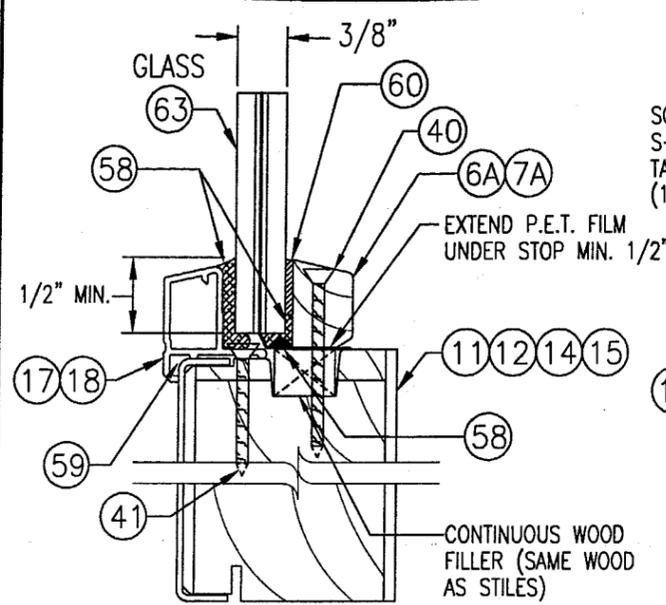


PANEL KEEPER BAR DETAIL
1/4" X 1" A36 STEEL NICKEL PLATED OR PAINTED BAR
SCALE: HALF FULL SIZE



STRIKE PLATE DETAIL
NICKEL PLATED STEEL
SCALE: HALF FULL SIZE

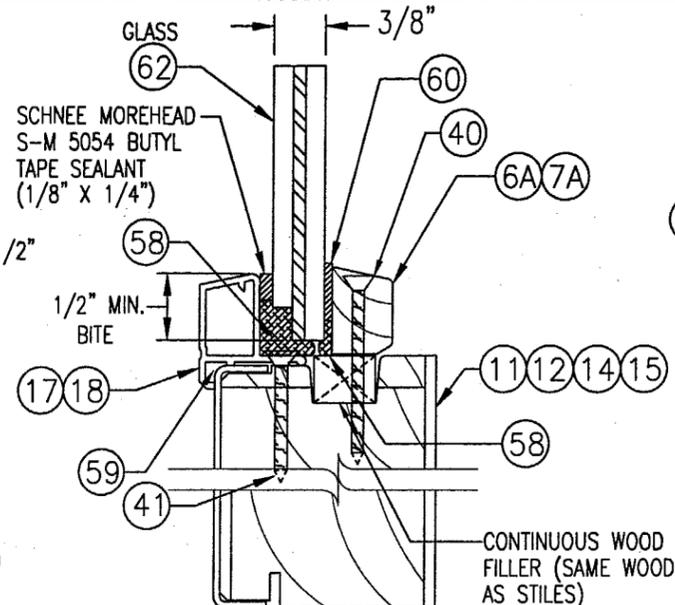
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| DRAWN BY: W.W.S. | DATE: 09/05/00 |
| CHECKED BY: W.W.S. | DATE: 03/29/01 |
| PLOT: 2:1 | |
| NO. | REVISION DESCRIPTION |
| DATE | BY |
| DRAWING TITLE ALUMINUM CLAD WOOD FRENCH DOORS | |
| DRAWING TITLE ALUMINUM CLAD WOOD FRENCH DOORS | |
| MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519)681-7012 | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | |
| CERTIFICATION MAR 30 2001 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 |
| APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE: APR 26 2001 BY: <i>Manuel...</i> PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 00-1030.02 | DRAWING NO. 1003D REV. SHEET NO. 8 OF 13 |



TYPICAL GLASS & GLAZING DETAIL IMPACT UNITS

SCALE: 3/4 FULL SIZE

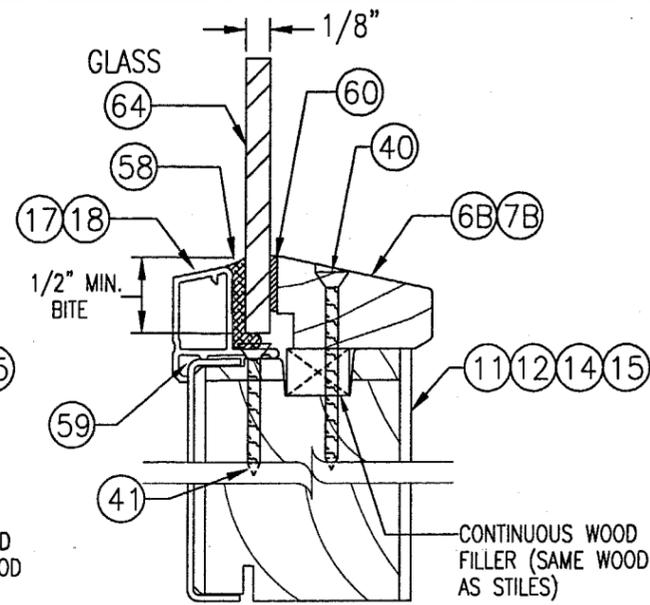
3/8" NEBULA GLASSLAM SAFETY-PLUS LAMINATED GLASS WITH 1/8" ANNEALED/0.06" RESIN/0.01" PET/0.06" RESIN/1/8" ANNEALED



TYPICAL GLASS & GLAZING DETAIL IMPACT UNITS

SCALE: 3/4 FULL SIZE

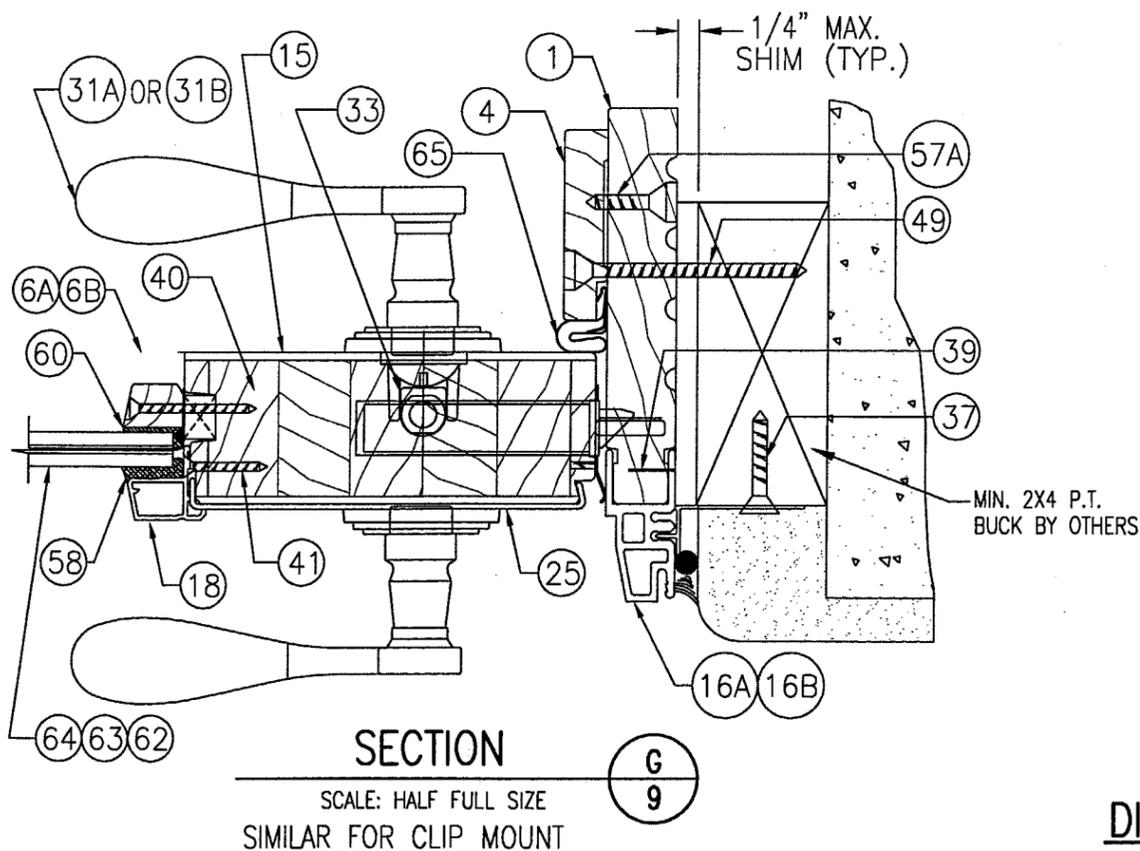
3/8" DUPONT DLUBAK "STEP-GLASS" WITH 1/8" TEMPERED/0.120" PVB/1/8" TEMPERED



TYPICAL GLASS & GLAZING DETAIL NON-IMPACT UNITS

SCALE: 3/4 FULL SIZE

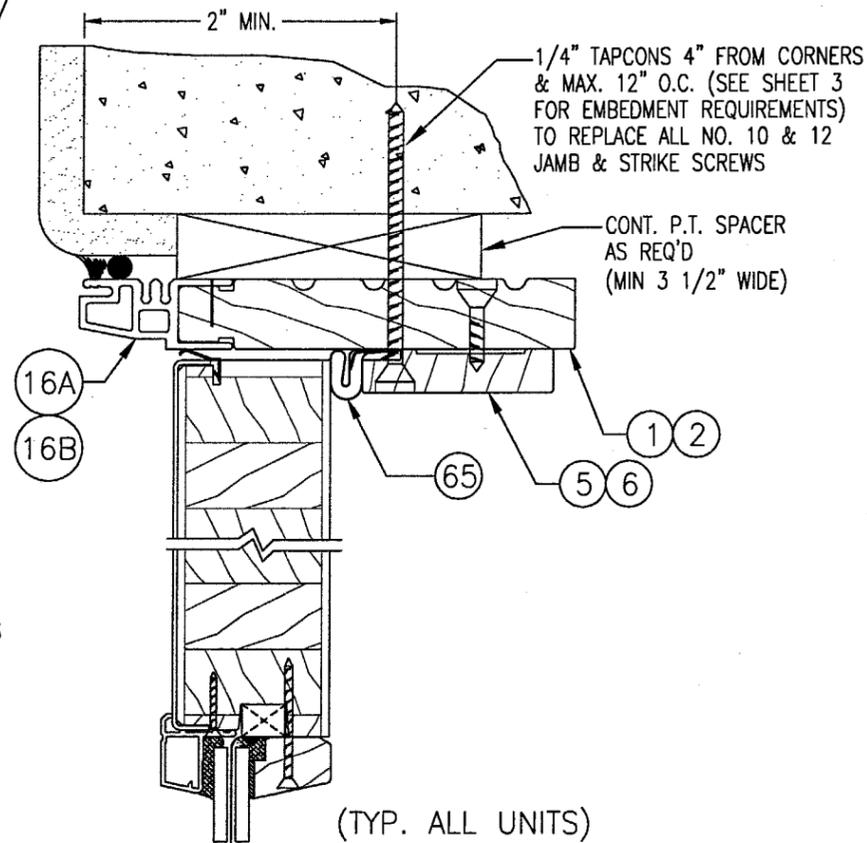
3mm TEMPERED GLASS



SECTION

SCALE: HALF FULL SIZE
SIMILAR FOR CLIP MOUNT

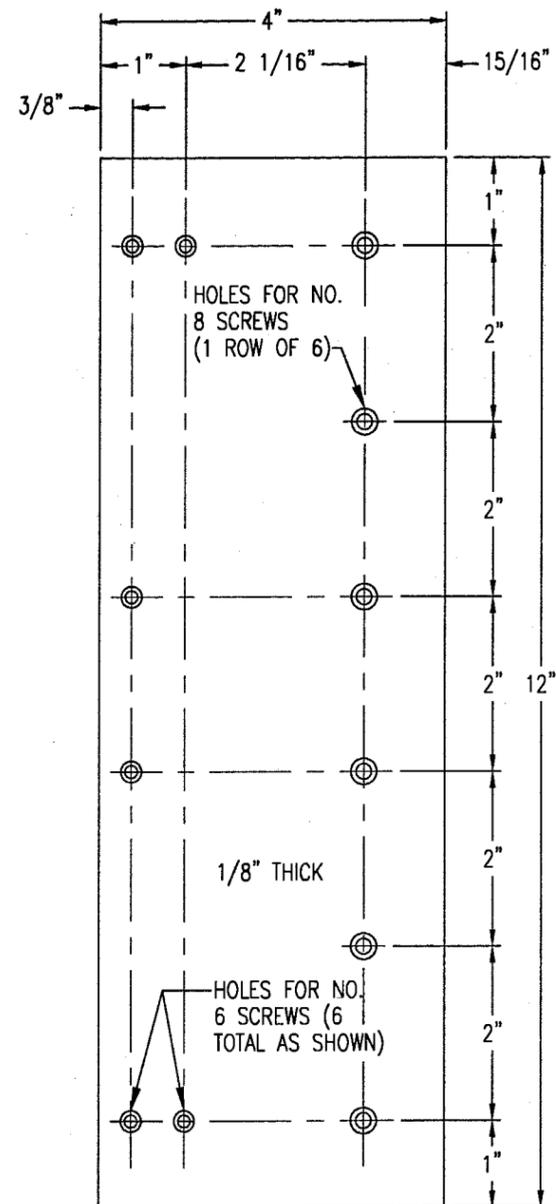
G
9



(TYP. ALL UNITS)

OPTIONAL JAMB DETAIL FOR DIRECT MOUNT TO CONCRETE OR BLOCK

SCALE: 1/2 FULL SIZE

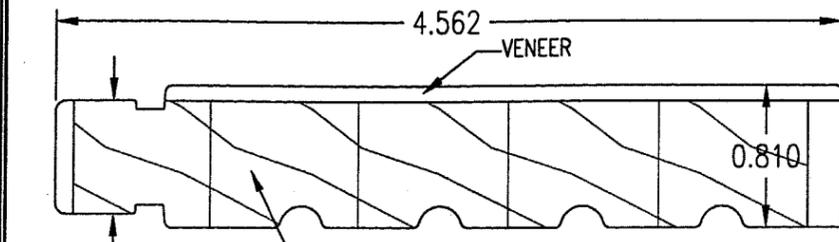


35 STRIKE PLATE DETAIL

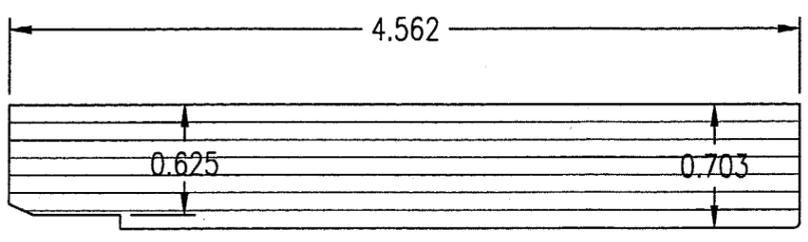
NICKEL PLATED OR PAINTED A446 GRADE A STEEL
SCALE: HALF FULL SIZE

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BY *Manuel Suiz*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. *DD-1030.02*

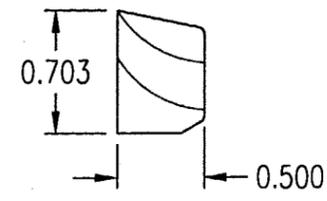
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| DRAWN BY: W.W.S. | | DATE: 09/05/00 | |
| CHECKED BY: W.W.S. | | DATE: 03/29/01 | |
| PLOT: 2:1 | | | |
| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| (DADE) | | | |
| ALUMINUM CLAD WOOD FRENCH DOORS | | MANUFACTURER | |
| CONSULTANTS | | KML WINDOWS, INC. | |
| W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | 23 BUCHANAN COURT | |
| 600 SANDTREE DRIVE, SUITE 203B | | LONDON, ONTARIO, CANADA N5Z4P9 | |
| PALM BEACH GARDENS, FL 33403 | | (519)681-7012 | |
| PHONE: 561-775-4902 | | FAX: 561-775-4903 | |
| DRAWING TITLE | | | |
| ALUMINUM CLAD WOOD FRENCH DOORS | | | |
| CERTIFICATION | | | |
| MAR 30 2001 | | | |
| WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | | | |
| DRAWING NO. 1003D | | REV. | |
| SHEET NO. | | 9 OF 13 | |



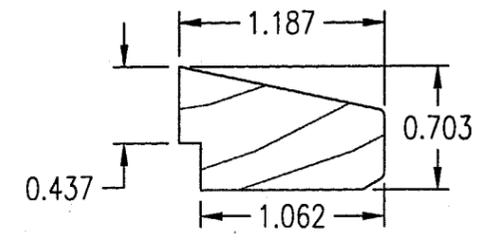
① **LINEAL WOOD FRAME JAMB**
(PONDEROSA PINE)



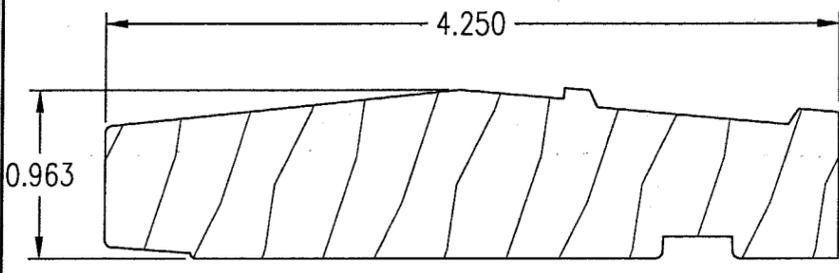
② **RADIAL WOOD FRAME JAMB**
(LAMINATED VENEER)



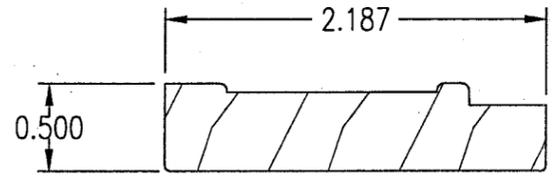
⑥A **LINEAL WOOD IMPACT GLAZING STOP**
(PONDEROSA PINE)



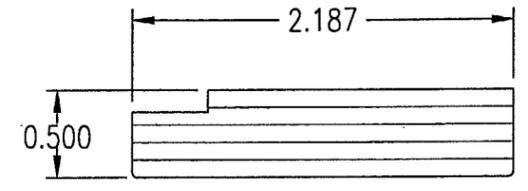
⑥B **LINEAL NON-IMPACT GLAZING STOP**
(PONDEROSA PINE)



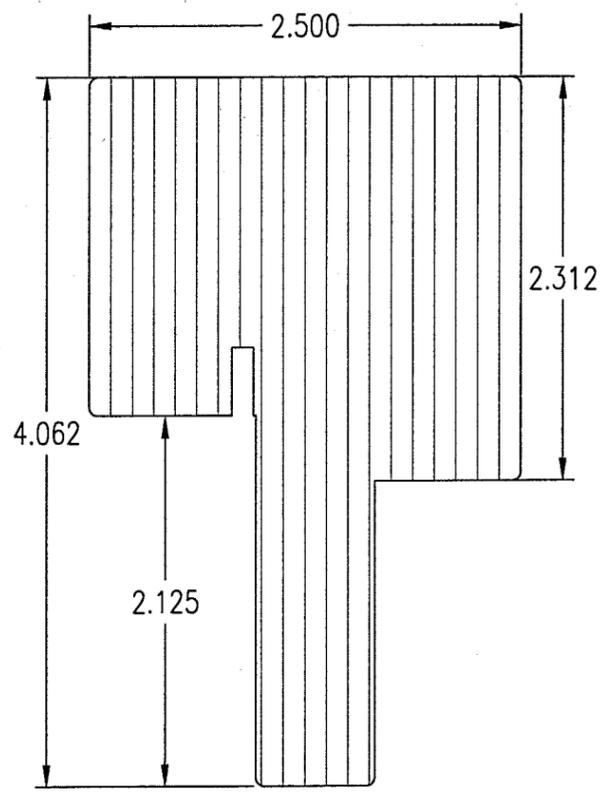
③ **WOOD SUBSILL**
(PONDEROSA PINE)



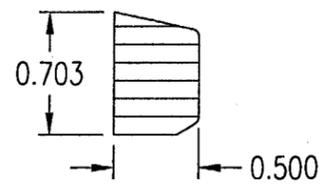
④ **LINEAL DOOR STOP**
(PONDEROSA PINE)



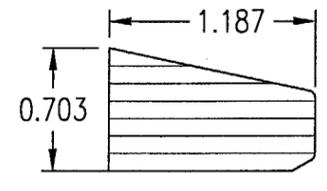
⑤ **RADIAL DOOR STOP**
(LAMINATED VENEER)



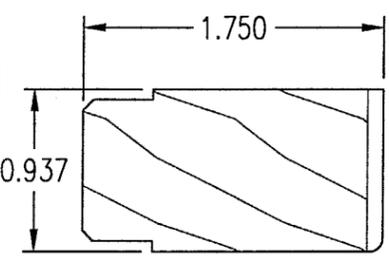
⑬ **ASTRAGAL**
(LAMINATED VENEER)



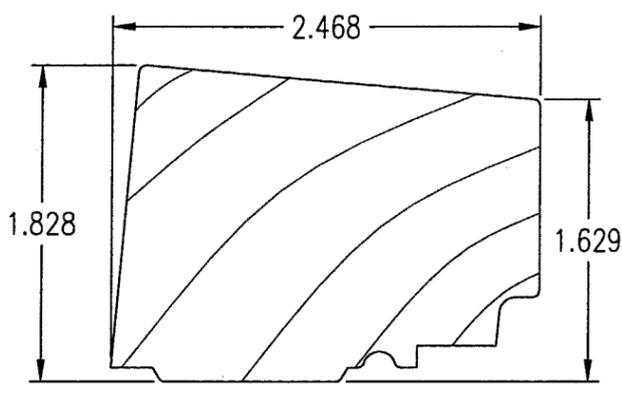
⑦A **RADIAL WOOD IMPACT GLAZING STOP**
(LAMINATED VENEER)



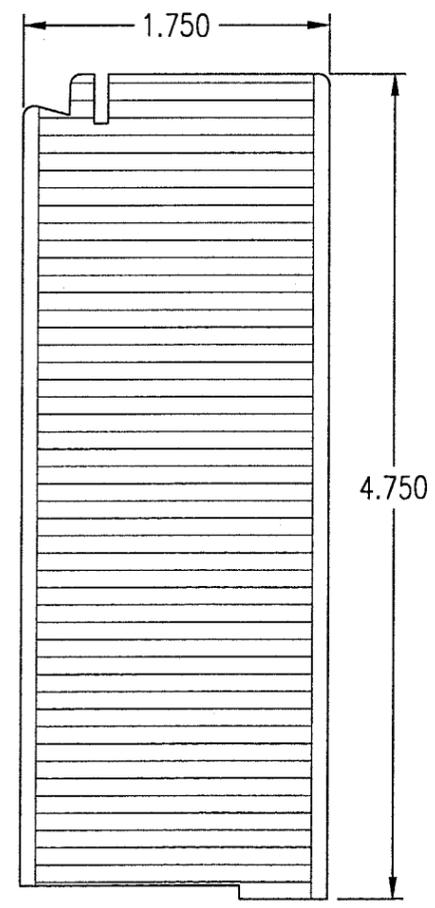
⑦B **RADIAL NON-IMPACT GLAZING STOP**
(LAMINATED VENEER)



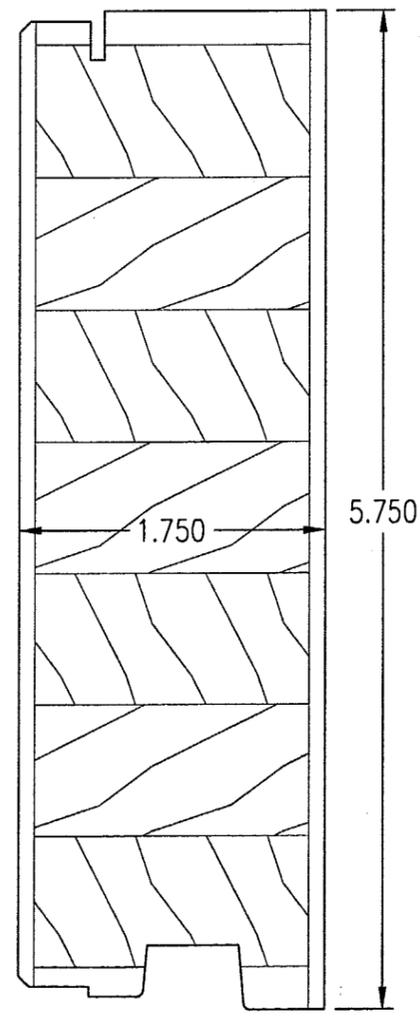
⑧ **WOOD DOOR EXTENDER**
(PONDEROSA PINE)



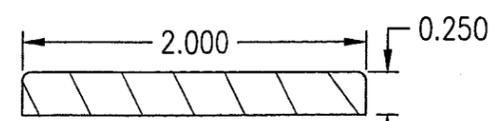
⑨ **DOOR THRESHOLD CAP BUMPER**
(PONDEROSA PINE)



⑪ **RADIAL DOOR RAIL**
(LAMINATED VENEER)



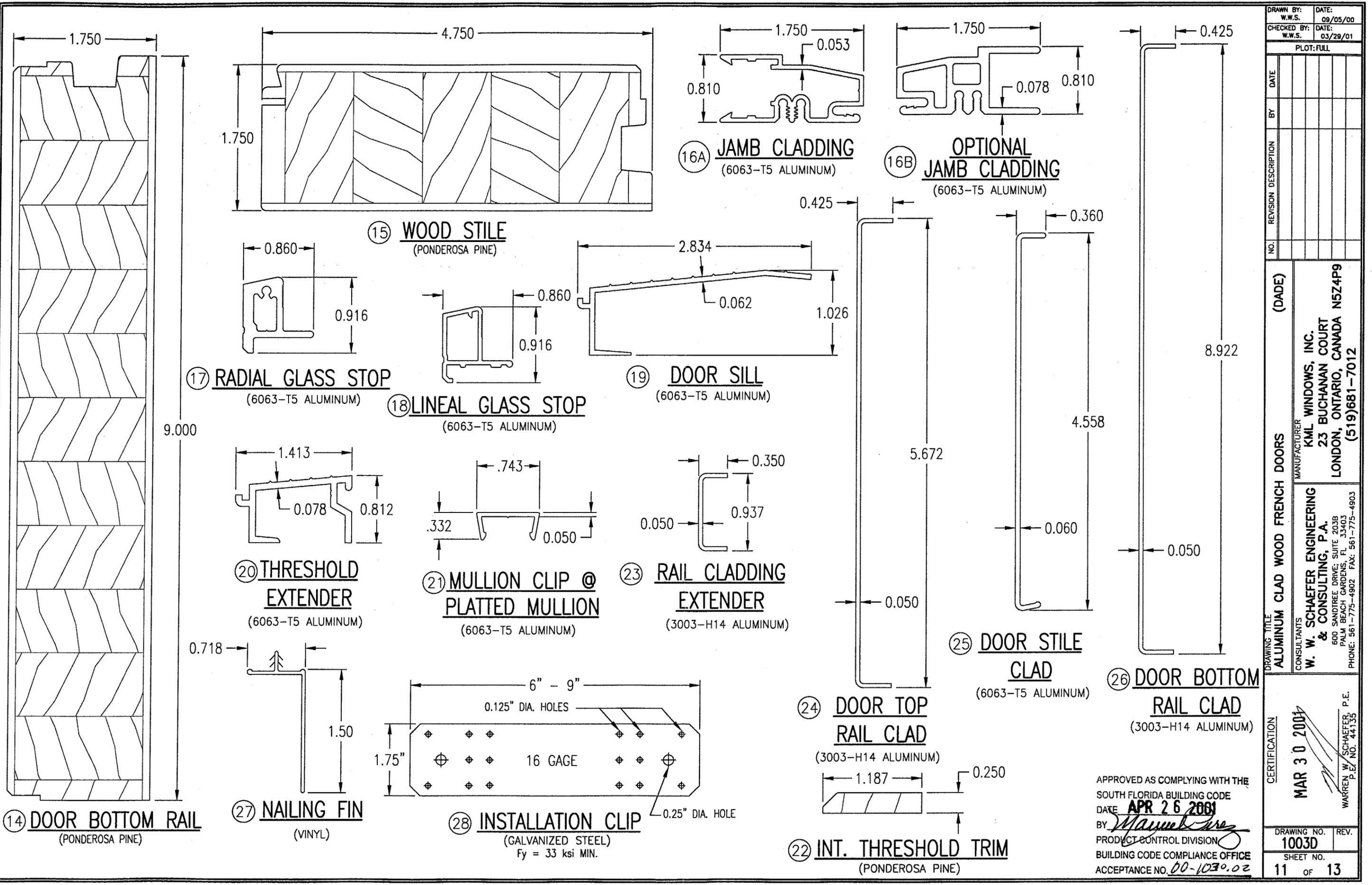
⑫ **LINEAL TOP DOOR RAIL**
(PONDEROSA PINE)



⑩ **ASTRAGAL CAP**
(PONDEROSA PINE)

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BY *Manuel*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **00-1030.PZ**

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| DRAWN BY: W.W.S. | DATE: 09/05/00 |
| CHECKED BY: W.W.S. | DATE: 03/29/01 |
| PLOT: FULL | |
| NO. | DATE |
| BY | |
| REVISION DESCRIPTION | |
| DRAWING TITLE ALUMINUM CLAD WOOD FRENCH DOORS | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | MANUFACTURER KML WINDOWS, INC. |
| 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519)681-7012 |
| CERTIFICATION MAR 30 2001 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 |
| DRAWING NO. 1003D | REV. |
| SHEET NO. 10 | OF 13 |



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|---|----------------------|--|------|
| DRAWN BY: W.W.S. | | DATE: 09/05/00 | |
| CHECKED BY: W.W.S. | | DATE: 03/29/01 | |
| PLOT: FULL | | | |
| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| DRAWING TITLE: ALUMINUM CLAD WOOD FRENCH DOORS | | (DADE) | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | MANUFACTURER: KML WINDOWS, INC. | |
| 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | | 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519)681-7012 | |
| CERTIFICATION: MAR 30 2004 | | WARREN W. SCHAEFER, P.E. P.E. NO. 44-135 | |
| APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE | | DATE: APR 26 2004 | |
| BY: <i>Warren W. Schaefer</i> | | PRODUCT CONTROL DIVISION | |
| BUILDING CODE COMPLIANCE OFFICE | | ACCEPTANCE NO. 00-1070.02 | |
| DRAWING NO. 1003D | REV. | SHEET NO. 11 OF 13 | |

| FIXED PANEL (CONFIGURATION = "O") | | | |
|--------------------------------------|----------|--------------------------|-------|
| PANEL FRAME SIZE (OSM) | | ALLOWABLE PRESSURE (PSF) | |
| WIDTH | HEIGHT | POS | NEG |
| 15 7/8" | 82" | 136.8 | 147.3 |
| 25 5/8" | 82" | 90.7 | 97.7 |
| 31 5/8" | 82" | 76.8 | 82.7 |
| 33 5/8" | 82" | 72.7 | 78.3 |
| 37 5/8" | 82" | 65.0 | 70.0 |
| 15 7/8" | 85 5/16" | 136.2 | 146.7 |
| 25 5/8" | 85 5/16" | 90.1 | 97.0 |
| 31 5/8" | 85 5/16" | 76.1 | 82.0 |
| 33 5/8" | 85 5/16" | 72.6 | 78.2 |
| 37 5/8" | 85 5/16" | 65.0 | 70.0 |
| 15 7/8" | 95" | 134.8 | 145.2 |
| 25 5/8" | 95" | 88.5 | 95.3 |
| 31 5/8" | 95" | 74.4 | 80.1 |
| 33 5/8" | 95" | 70.9 | 76.3 |
| 37 5/8" | 95" | 65.0 | 70.0 |

THIS TABLE APPLIES FOR ANY NUMBER OF FIXED PANELS SIDE BY SIDE & CONSIDERS EACH PANEL BEING EQUAL IN SIZE.

| OPERABLE SINGLE DOOR (CONFIGURATION = "X") | | | |
|---|----------|--------------------------|------|
| DOOR FRAME SIZE (OSM) | | ALLOWABLE PRESSURE (PSF) | |
| WIDTH | HEIGHT | POS | NEG |
| 25 5/8" | 82" | 90.7 | 97.7 |
| 31 5/8" | 82" | 76.8 | 82.7 |
| 33 5/8" | 82" | 72.7 | 78.3 |
| 37 5/8" | 82" | 65.0 | 70.0 |
| 25 5/8" | 85 5/16" | 90.1 | 97.0 |
| 31 5/8" | 85 5/16" | 76.1 | 82.0 |
| 33 5/8" | 85 5/16" | 72.6 | 78.2 |
| 37 5/8" | 85 5/16" | 65.0 | 70.0 |
| 25 5/8" | 95" | 88.5 | 95.3 |
| 31 5/8" | 95" | 74.4 | 80.1 |
| 33 5/8" | 95" | 70.9 | 76.3 |
| 37 5/8" | 95" | 65.0 | 70.0 |

| OPERABLE DOUBLE DOORS (CONFIGURATION = "XX") | | | |
|---|----------|--------------------------|------|
| DOOR FRAME SIZE (OSM) | | ALLOWABLE PRESSURE (PSF) | |
| WIDTH | HEIGHT | POS | NEG |
| 50 3/16" | 82" | 91.3 | 98.3 |
| 62 3/16" | 82" | 77.0 | 82.9 |
| 66 3/16" | 82" | 72.9 | 78.5 |
| 74 3/16" | 82" | 65.0 | 70.0 |
| 50 3/16" | 85 5/16" | 90.7 | 97.6 |
| 62 3/16" | 85 5/16" | 76.3 | 82.2 |
| 66 3/16" | 85 5/16" | 72.7 | 78.3 |
| 74 3/16" | 85 5/16" | 65.0 | 70.0 |
| 50 3/16" | 95" | 89.1 | 95.9 |
| 62 3/16" | 95" | 74.6 | 80.4 |
| 66 3/16" | 95" | 71.0 | 76.5 |
| 74 3/16" | 95" | 65.0 | 70.0 |

FOR THE "XXXX" CONFIGURATION, THIS TABLE CONSIDERS EACH DOOR FRAME TO BE EQUAL IN SIZE.

NOTE: ALL POSITIVE PRESSURES FOR ALL DOORS SHALL BE LIMITED TO 65 PSF WHEN WATER INFILTRATION RESISTANCE IS REQUIRED BY CODE.
(POSITIVE PRESSURES LISTED IN TABLES ARE FOR WIND PRESSURE ONLY)

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, HINGE REACTIONS, STRIKE PLATE REACTIONS, AND PERIMETER FASTENER REACTIONS.
2. THE LOADS IN THESE TABLES ARE FOR NON-IMPACT RATED WINDOWS ONLY.
3. THE LOADS IN THESE TABLES MAY NOT BE INTERPOLATED.

NOTE: TABULATED VALUES ARE FOR THE ALLOWABLE DESIGN PRESSURE RATINGS OF THE UNIT SIZES & CONFIGURATIONS SHOWN.

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **APR 26 2001**
BY *Manuel...*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1030.02

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| DRAWN BY: W.W.S. | DATE: 09/05/00 |
| CHECKED BY: W.W.S. | DATE: 03/29/01 |
| PLOT: FULL | |
| NO. | REVISION DESCRIPTION |
| DATE | BY |
| DRAWING TITLE ALUMINUM CLAD WOOD FRENCH DOORS | |
| MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519)681-7012 | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | |
| CERTIFICATION | WARREN W. SCHAEFER, P.E. P.L. NO. 44135 |
| DRAWING NO. 1003D | REV. |
| SHEET NO. 12 | OF 13 |

MAR 03 2001
Warren W. Schaefer
WARREN W. SCHAEFER, P.E.
P.L. NO. 44135

| MATERIAL LIST | | | |
|-------------------------------|------------------|--|--|
| PART NO. | REF. NO. | DESCRIPTION | NOTES |
| PARTS & EXTRUSIONS | | | |
| 1 | PF1010 | LINEAL JAMB WOOD MEMBER | SEE NOTE 1 |
| 2 | PF1231 | CURVED JAMB WOOD MEMBER | LAMINATED VENEER |
| 3 | PF1358 | WOOD SUBSILL FOR THRESHOLD | SEE NOTE 1 |
| 4 | PF1351 | LINEAL WOOD DOOR STOP | SEE NOTE 1 |
| 5 | PF1351 | RADIAL WOOD DOOR STOP | LAMINATED VENEER |
| 6A | PF1008 | WOOD LINEAL GLAZING STOP | SEE NOTE 1 (USED WITH IMPACT UNITS) |
| 7A | PF1008 | WOOD RADIAL GLAZING STOP | LAMINATED VENEER (USED WITH IMPACT UNITS) |
| 6B | PF1011 | WOOD LINEAL GLAZING STOP | SEE NOTE 1 (USED WITH NON-IMPACT UNITS) |
| 7B | PF1011 | WOOD RADIAL GLAZING STOP | LAM. VENEER (USED WITH NON-IMPACT UNITS) |
| 8 | PF1169 | WOOD BOTTOM RAIL EXTENDER | SEE NOTE 1 |
| 9 | PF1362 | DOOR THRESHOLD CAP/BUMPER | SEE NOTE 1 |
| 10 | PF1507 | ASTRAGAL CAP | SEE NOTE 1 |
| 11 | PF1130 | RADIAL DOOR TOP RAIL | LAMINATED VENEER |
| 12 | PF1131 | LINEAL DOOR TOP RAIL | SEE NOTE 1 |
| 13 | PF1489 | WOOD ASTRAGAL | LAMINATED VENEER |
| 14 | PF1132 | WOOD BOTTOM RAIL | SEE NOTE 1 |
| 15 | PF1130 | WOOD STILE | SEE NOTE 1 |
| 16A/B | PF1001/1002 | JAMB CLADS | 6063-T5 ALUMINUM |
| 17 | PF1017 | RADIAL GLASS STOP | 6063-T5 ALUMINUM |
| 18 | PF1458 | ALUMINUM LINEAL GLASS STOP | 6063-T5 ALUMINUM |
| 19 | PF1086 | 4 9/16" OUTSWING DOOR SILL | 6063-T5 ALUMINUM |
| 20 | PF1083 | THRESHOLD EXTENDER | 6063-T5 ALUMINUM |
| 22 | PF1295 | INTERIOR THRESHOLD TRIM | SEE NOTE 1 |
| 23 | PF1172 | BOTTOM RAIL EXTENDER CLADDING | 3003-H14 ALUMINUM |
| 24 | PF1135 | TOP RAIL CLAD | 3003-H14 ALUMINUM |
| 25 | PF1134 | STILE CLAD | 6063-T5 ALUMINUM |
| 26 | PF1136 | BOTTOM RAIL CLAD | 3003-H14 ALUMINUM |
| 27 | PF1214 PF1326 | VINYL NAIL FIN | OPTIONAL WITH SHEAR SCREW INSTALLATION |
| 28 | SK1031 | GALVANIZED 16 GA. STEEL INSTALLATION CLIP | GALVANIZED STEEL, INC. (Fy = 33 ksi MIN.) WITHIN 4" OF CORNERS & 12" MAX. O.C. |
| 30 | SK1156 | FIVE KNUCKLE FULL MORTISE HINGE | STANLEY NO. FBB191; STAINLESS STEEL (4 PER DOOR PANEL) |
| 31A | - | G-U US TRIM SERIES 2000 HANDLE | USE WITH PART #32 LOCKING HARDWARE (BRASS) |
| 31B | SK1415 | W&F MFG. SERIES 1200 LOCKSET | INCLUDES HANDLE & SINGLE DEAD BOLT (BRASS) |
| 32 | - | G-U 3-POINT DOOR LOCKSET | US TRIPACT DOOR BOLT SYS. (USE WITH #31A) |
| 33 | SK1193 | KML INTERIOR FLUSH BOLT | 1 TOP & BOTTOM EACH DOOR PANEL INTERIOR |
| 34 | SK1597 | 0.945"x2.25"x0.078" STL STRIKE PLATE (Fy = 33 ksi MIN.) | 1 AT EACH FLUSH BOLT STRIKE (HEAD & SILL) NICKEL PLATED STEEL |
| 35 | SK1598 | 4"x12" X1/8" STEEL STRIKE PLATE (MIN. ASTM A446 GRADE A STEEL) | LOCATED AT CENTER/TOP OF HEAD JAMB NICKEL PLATED OR PAINTED STEEL |
| FASTENERS | | | |
| 36 | - | #8 X 1 1/4" SMS SCREW OR 1 5/8" DRYWALL SCREW | WITHIN 4" FROM ENDS & MAX. 10 1/2" O.C. WITH FIN |
| 37 | - | #8 X 1 1/4" SMS SCREW | 2 PER CLIP INTO BUCK (1 EA. SIDE OF BUCK) |
| 38 | - | #8 X 5/8" PAN HEAD SMS SCREW | 3 PER CLIP INTO JAMB |
| 39 | - | 3/8" LONG STAPLE | WITHIN 3" FROM CORNERS & MAX. 8" O.C. |

| MATERIAL LIST | | | |
|-----------------|----------|---|---|
| PART NO. | REF. NO. | DESCRIPTION | NOTES |
| 40 | - | #6 X 1 5/8" SMS SCREW | WITHIN 3" FROM CORNERS & MAX. 6" O.C. |
| 41 | - | #6 X 3/4" SMS SCREW | WITHIN 3" FROM CORNERS & MAX. 12" O.C. |
| 42 | - | #8 X 2" SMS SCREW | 3 EA. RECTANGULAR JAMB CORNER |
| 43 | - | #8 X 1 1/2" SMS SCREW | 3 EA. RADIUS JAMB CORNER |
| 44 | - | #6 X 3/4" SMS SCREW | 2 EA. JAMB CLAD CORNER INTO CLAD SPLINES |
| 45 | - | 3/8" X 5" LAG BOLT | 1 TOP STILE & RAIL, 2 BOTTOM STILE & RAIL |
| 46 | - | #12 X 3/4" SMS SCREW | 4 EA. HINGE INTO JAMB (EXCLUDING TOP HINGE) |
| 47 | - | #12 X 1 1/4" S.S. SCREW | 4 EA. HINGE INTO STILE |
| 48A | - | #12X2 1/2" S.S. OR BRASS SMS | 2 TOP HINGE ONLY THRU JAMB INTO BUCK |
| 48C | - | 1/4"-20 X 3/4" MACHINE SCREW | 2 TOP HINGE ONLY (WITH T-NUT) |
| 49 | - | #10 SMS SCREWS (1 3/8" MIN. BUCK EMBED) | WITHIN 4" FROM CORNERS & MAX. 12" O.C. |
| 50 | - | #8 X 1 3/4" SMS SCREW | 2" FROM ASTRAGAL ENDS & MAX. 12" O.C. |
| 51A | - | #10 SMS SCREWS (MIN. 1 3/8" BUCK EMBED) | 2 THRU EA. STRIKE PLATE, JAMB & INTO BUCK |
| 51B | - | 1/4" TAPCON (WHEN INTO CONCR.) (MIN. 1 1/4" CONCR. EMBED) | 2 THRU EA. STRIKE PLATE, JAMB & INTO CONCR. |
| 52A | - | #6 X 3/4" SMS SCREW | 6 THRU TOP STRIKE PLATE & INTO HEAD JAMB |
| 52B | - | #8 X 1 1/4" SMS SCREW | 6 THRU TOP STRIKE PLATE & INTO HEAD JAMB |
| 53A | - | 1/4" TAPCON (WHEN INTO CONCR.) (MIN. 1 1/4" CONCR. EMBED) | 2 THRU EA. SILL STRIKE PLATE & INTO CONCRETE |
| 53B | - | #10 SMS SCREW (MIN. 1 3/8" FRAMING EMBED) | 2 THRU EA. SILL STRIKE PLATE & INTO FRAMING |
| 54A | - | 1/4" TAPCON (WHEN INTO CONCR.) (MIN. 1 1/4" CONCR. EMBED) | WITHIN 4" OF CORNERS & MAX. 12" O.C. |
| 54B | - | #10 S/STL SCREWS (MIN. 1 3/8" FRAMING EMBED) | WITHIN 4" OF CORNERS & MAX. 12" O.C. |
| 55 | - | #10 X 1.5" SMS SCREW (SIDE JAMB TO MULL PLATE) | 4" FROM CORNERS & MAX. 12" O.C. |
| 56 | - | #10 X 2 1/2" SMS SCREW | 4" FROM CORNERS & MAX 12" O.C. |
| 57 | - | #8 X 1 3/4" SMS | 3" FROM CORNERS & MAX 12" O.C. |
| 57A | - | #8 X 1" SMS SCREW | 3" FROM CORNERS & MAX. 8" O.C. |
| 57B | - | #8 X 2 1/2" SMS SCREW | 3" FROM CORNERS & MAX 12" O.C. |
| SEALANTS | | | |
| 58 | - | DOW 995 SILICONE | FOR 1/2" GLAZING BITE |
| 59 | - | DOW 1199 STRUCTURAL SILICONE ADHESIVE | CONT. CLADDING TO JAMB & DOOR STOP TO JAMB |
| OTHER | | | |
| 60 | - | NORTON NORGLAZE .0625" X .437" GLAZING TAPE | POLYOLEFIN FOAM W/ ACRYLIC ADHESIVE |
| 61 | - | TREMCO 440 BUTYL TAPE GASKET | TRIM OFF AT EDGES (TYP. AT JAMB CLAD CORNERS) |
| 62 | - | 3/8" LAMINATED TEMPERED GLASS "DUPONT PVB WITH DLUBAK STEP" | 1/8" TEMPERED/0.120 PVB/1/8" TEMPERED |
| 63 | - | 3/8" LAMINATED HEAT STR. GLS. NEBULA GLASSLAM SAFETY-PLUS | 1/8" ANNEALED/0.06 RESIN/0.01 P.E.T./0.06 RESIN/1/8" ANNEALED |
| 64 | - | 1/8" THICK TEMPERED GLASS | |
| 65 | PF1371 | FRAME WEATHERSEAL | SCHLEGEL |
| 66 | PF1026 | 0.415" X 0.489" RAINSKIRT | SCHLEGEL EXTRUDED FLEXIBLE COPOLYMER |



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

FASTENER MINIMUM EMBEDMENTS:

- 1) ALL TAPCONS MUST HAVE A MIN. CONCRETE/BLOCK EMBED = 1 1/4"
- 2) ALL JAMB TO BUCK SCREWS MUST HAVE A MIN. BUCK EMBED = 1 3/8" AT NO. 10 SCREWS & 1 1/2" AT NO. 12 SCREWS.

LENGTHEN SCREWS AS REQ'D TO OBTAIN REQ'D MIN EMBEDS.

FASTENER MINIMUM EDGE DISTANCE:

WOOD = 1"
CONCR./BLOCK = 2"

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|---|---|
| DRAWN BY: W.W.S. | DATE: 09/05/00 |
| CHECKED BY: W.W.S. | DATE: 03/29/01 |
| PLOT: FULL | |
| NO. | DATE |
| BY | |
| REVISION DESCRIPTION | |
| (DATE) | |
| DRAWING TITLE ALUMINUM CLAD WOOD FRENCH DOORS | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903 | MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519)681-7012 |
| CERTIFICATION MAR 03 2001 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | |
| DRAWING NO. 1003D | REV. |
| SHEET NO. 13 OF 13 | |

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE APR 26 2001
BY Manuel Lopez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1030.02