



**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)**

**Traco Windows & Doors  
71 Progress Avenue  
Cranberry Township, PA 16066**

**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: Series "Doral 3" Outswing Aluminum Patio Door (S.M.I.)**

**APPROVAL DOCUMENT:** Drawing No. **04-113-001A**, dated 1/21/04, titled "Series "Doral 3" Outswing Aluminum Patio Door -S.M.I.", sheets 1 through 6 of 6, prepared by Traco Windows & Doors Inc., signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: 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 consists of this page 1 and evidence page E-1 and E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**

*Handwritten signature and date 3/31/04*

**NOA No 04-0122.16  
Expiration Date: April 22, 2009  
Approval Date: April 22, 2004  
Page 1**

**Traco Windows & Doors Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE PAGE**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **04-113-001A**, 1/21/04, titled "Series Doral 3 Outswing Aluminum Patio Door -S.M.I.", sheets 1 through 6 of 6, prepared by Traco Windows & Doors Inc., signed and sealed by Frank L. Bennardo, P.E.

**B. TESTS**

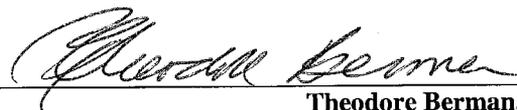
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
Along with installation diagram of an outswing aluminum patio door, prepared by Hurricane Test Laboratory, Inc., Test Report No. **0021-1007-03** with specimen number 2,4,6, dated 10/29-11/25/03, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
3) Small Missile Impact Test per FBC, TAS 201-94  
Along with installation diagram of an outswing aluminum patio door, prepared by Hurricane Test Laboratory, Inc., Test Report No. **0021-1007-03** with specimen number 5, dated 11/18-19/03, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
3) Large Missile Impact Test per FBC, TAS 201-94  
Along with installation diagram of an outswing aluminum patio door, prepared by Hurricane Test Laboratory, Inc., Test Report No. **0021-1007-03** with specimen number 1, dated 10/14-16/03, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E 1300, and structural analysis, prepared signed and sealed by Frank L. Bennardo, P.E., dated 1/16/04.

**D. QUALITY ASSURANCE**

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



Theodore Berman, P.E.  
Deputy Director, Product Control Division  
NOA No 04-0122.16  
Expiration Date: April 22, 2009  
Approval Date: April 22, 2004

**Traco Windows & Doors Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE PAGE**

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **01-0205.02** issued to "Solutia Inc." for "SaflexIIG PVB Interlayer for Laminated Glass" dated 05/17/01, expiring on 05/21/06.

**F. STATEMENTS**

1. Statement letter of code compliance, dated January 16, 2004, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest, dated January 16, 2004, signed and sealed by Frank L. Bennardo, P.E.

**G. OTHER**

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



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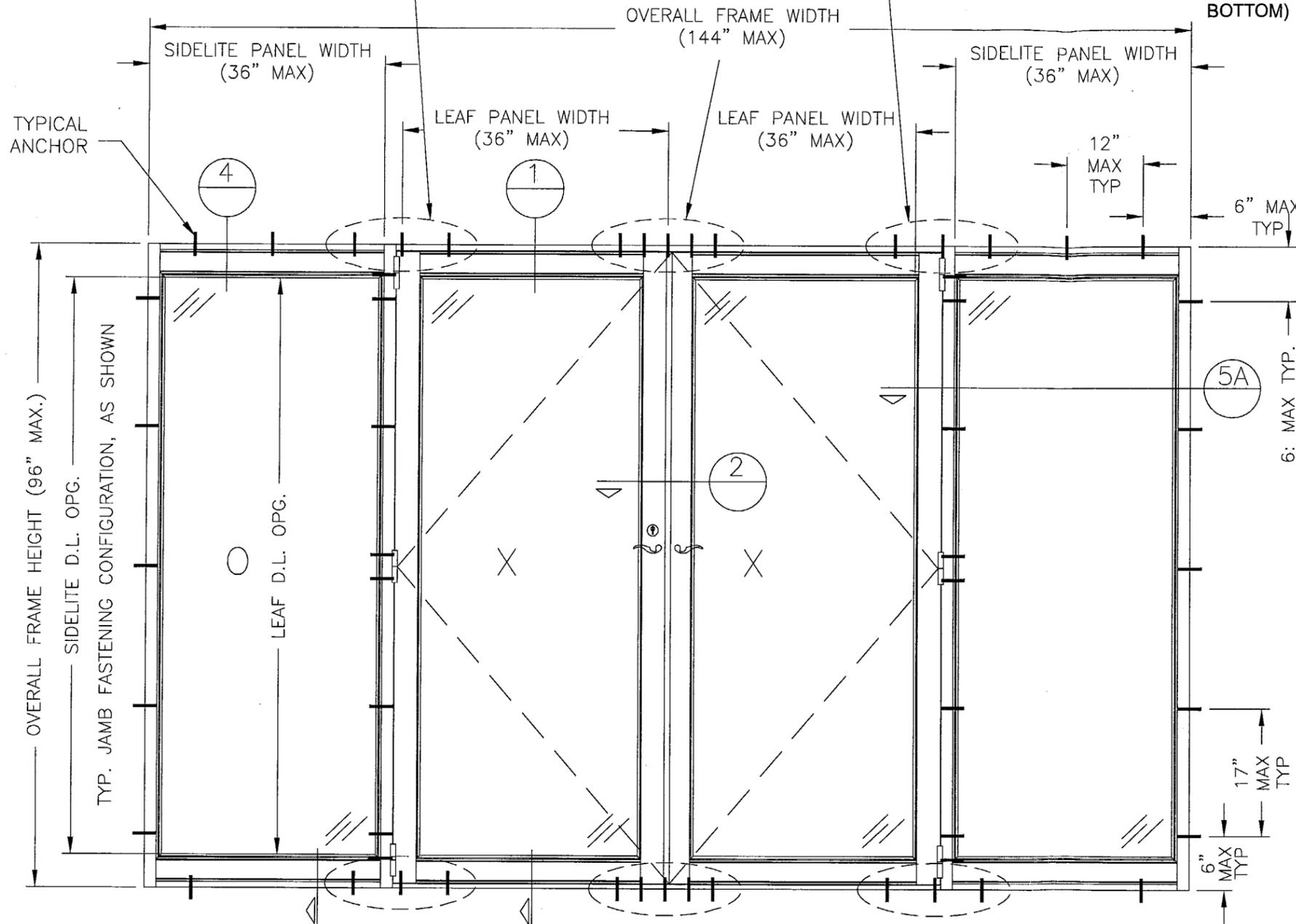
**Theodore Berman, P.E.**  
**Deputy Director, Product Control Division**

**NOA No 04-0122.16**  
**Expiration Date: April 22, 2009**  
**Approval Date: April 22, 2004**

# SMALL MISSILE IMPACT RESISTANT OUTSWING DOOR WITH SIDELITES

CLUSTER OF (3) ANCHORS (REF ANCHOR NOTES, SHEET 3), AS SHOWN, EXCEPT FOR #12 SCREW OR 3/16" TAPCON INTO WOOD OR WOOD BUCK WHERE (4) ANCHORS ARE REQ'D., 3" MIN. SPACING BETWEEN CLUSTER ANCHORS (TYP. TOP & BOTTOM)

CLUSTER OF (5) ANCHORS (REF ANCHOR NOTES, SHEET 3), 3" MIN. SPACING BETWEEN CLUSTER ANCHORS (TYP. TOP & BOTTOM)



## GENERAL NOTES:

1. THE SWING DOOR SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2001 (HIGH VELOCITY HURRICANE ZONE) AND MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203.
2. A 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS DOOR SYSTEM.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS DOOR SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. THE DOOR SYSTEM DETAILED HEREIN HAS BEEN TESTED PER MIAMI-DADE COUNTY PROTOCOLS TAS-201, TAS-202, & TAS-203 AS REFERENCED IN TEST REPORT #0021-1007-03 BY HURRICANE TEST LABORATORY (HTL).
5. THE DOOR SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL APPLY FOR ONE-TIME APPROVAL AND PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (NOT BY TRACO) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. DOORS PANELS GLAZED WITH 7/16" LAMINATED GLASS ARE SMALL MISSILE IMPACT APPROVED AND SHALL BE PROTECTED WITH MIAMI-DADE COUNTY IMPACT RESISTANT SHUTTERS FOR INSTALLATIONS UP TO 30 FEET ABOVE GRADE. NO PROTECTION REQUIRED FOR INSTALLATIONS ABOVE 30 FEET ABOVE GRADE..
8. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

**A** EXTERIOR ELEVATION: SNAP-MULLION SIDELITES  
AS SHOWN, OR OXX, XXO, OXO, XO, OX, or XX CONFIG  
USE TYP. JAMB FASTENING CONFIGURATION FOR ALL CASES, AS SHOWN  
(N.T.S.)

**DESIGN PRESSURES:**  
7/16" LAMINATED GLASS  
(WITH 0.090" PVB INTERLAYER ONLY)  
  
+55 PSF / -60 PSF

Approved as complying with the Florida Building Code  
Date 04/22/04  
NOAR 04-0122.16  
Miami Dade Product Control  
Division  
By: *Alvarado*

| REVISIONS   |      |
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SCALE: 1/1 (UNO)  
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CHECKED BY: FLB  
ORIG DATE: 1/21/04  
DWG #: 04-113-001A

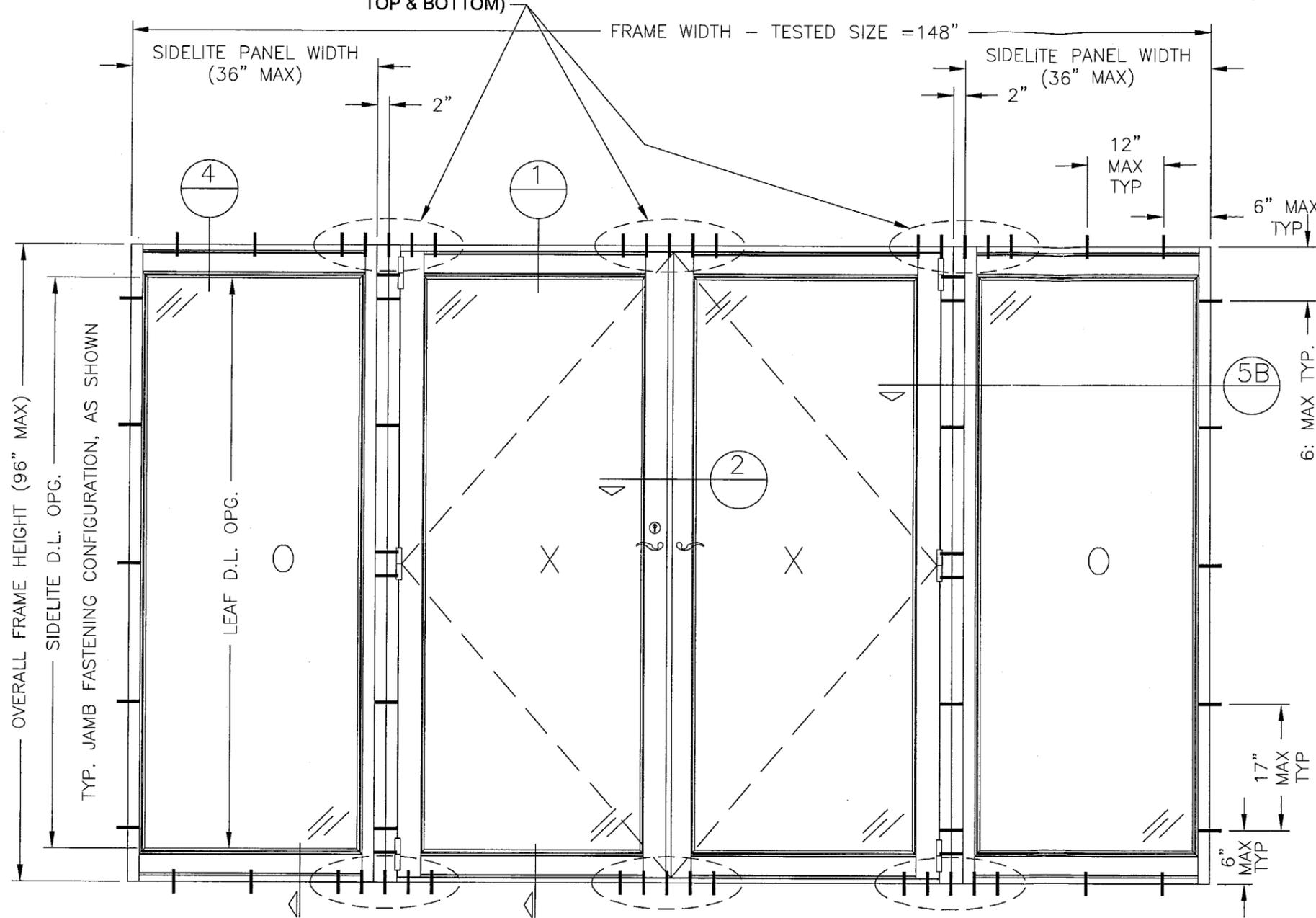
SHEET:  
1 OF 6

MAR 25 2004  
FRANK L. BERNARDO, P.E.  
CONSULTING ENGINEER  
4441 NORTH DIXIE HIGHWAY  
BOCA RATON, FL 33431  
(561) 391-2888 FAX: (561) 391-2862  
WWW.FLBENGINEERING.COM  
EMAIL: FRANK@FLBENGINEERING.COM

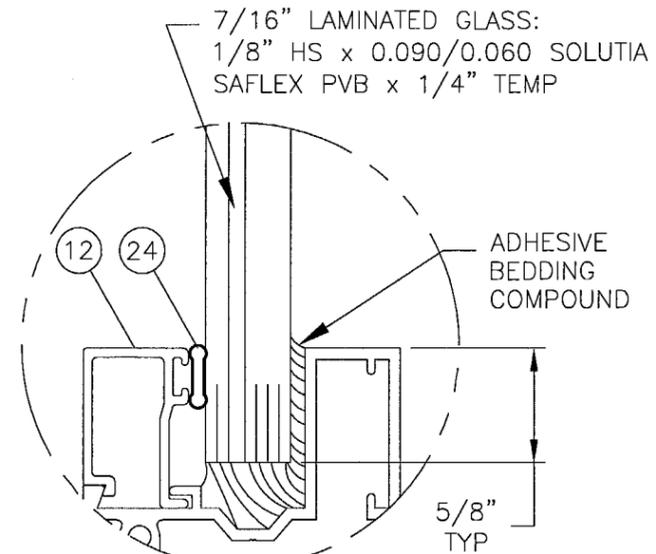
71 Progress Avenue,  
Cranberry Township, PA 16166  
Tel. (724) 776-7000  
**TRACO**  
Windows & Doors Inc.  
SERIES DORAL 3 OUTSWING ALUMINUM  
PATIO DOOR (SMALL MISSILE)

# SMALL MISSILE IMPACT RESISTANT OUTSWING DOOR WITH SIDELITES

CLUSTER OF (5) ANCHORS (REF ANCHOR NOTES, SHEET 3), 3" MIN. SPACING BETWEEN CLUSTER ANCHORS (TYP. TOP & BOTTOM)



**B** EXTERIOR ELEVATION: TUBE-MULLION SIDELITES  
AS SHOWN, OR OXX, XXO, OXO, XO, OX, XX, O, or X CONFIG  
USE TYP. JAMB FASTENING CONFIGURATION FOR ALL CASES, AS SHOWN  
(N.T.S.)



**C** GLAZING DETAIL (LEAF OR SIDELITE)  
FULL SCALE

**DESIGN PRESSURES:**  
7/16" LAMINATED GLASS  
(WITH 0.060" OR 0.090" PVB INTERLAYER)  
**+90 PSF / -90 PSF**

Approved as complying with the Florida Building Code  
Date: 04/22/04  
NOA: 04-0122-10  
Miami Dade Product Control Division  
By: *Medina Acosta*

MAR 25 2004

FRANK L. BERNARDO, P.E.  
CONSULTING ENGINEER  
4441 NORTH DIXIE HIGHWAY  
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71 Progress Avenue,  
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Tel: (724) 776-7000

**TRACO**  
Windows & Doors Inc.  
SERIES DORAL 3 OUTSWING ALUMINUM  
PATIO DOOR (SMALL MISSILE)



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CHECKED BY: FLB  
ORIG DATE: 12/22/04  
DWG #: 04-113-001A

SHEET:  
2 OF 6

EXISTING STRUCTURE  
(OPTIONAL 1X OR 2X WOOD  
BUCK NOT SHOWN)

SEE ANCHOR NOTES FOR ANCHOR  
TYPES AND EMBEDMENT. SEE  
ELEVATION FOR LOCATIONS &  
SPACING.

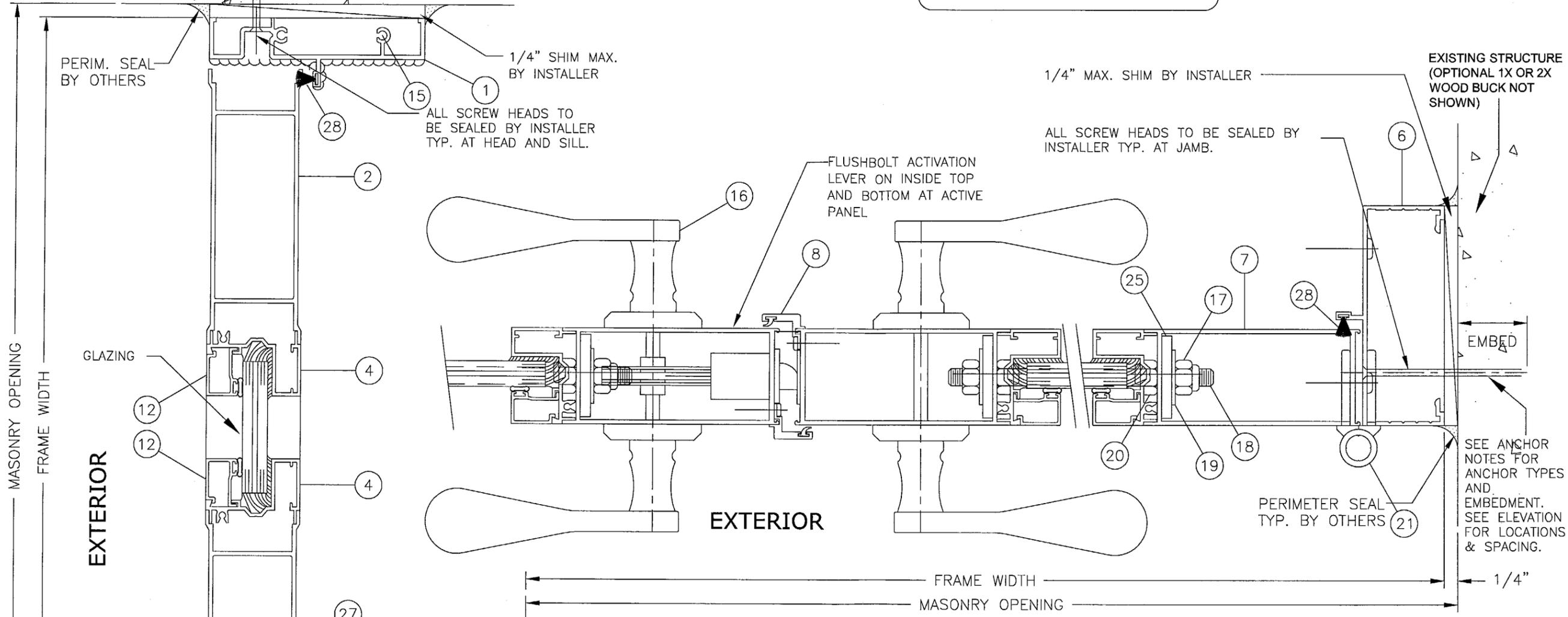
NOTE:  
EXTERIOR AND INTERIOR FINISHES,  
BREAK METALS AND FLASHING  
BY OTHERS.

MAR 25 2004

FRANK L. BERNARDO, P.E.  
PE20046578

FRANK L. BERNARDO, P.E.  
CONSULTING ENGINEER

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EMAIL: FRANK@FLENGINEERING.COM



**2** ASTRAGAL DETAIL  
HALF SCALE

**3** JAMB DETAIL  
HALF SCALE

**ANCHOR NOTES:**

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. ANCHOR EMBEDMENT SHALL BE INTO BASE MATERIAL, EXCLUDING STUCCO OR OTHER WALL FINISH.
3. BASE MATERIAL SHALL BE WOOD (G=0.55 OR GREATER SPECIFIC GRAVITY), GROUT-FILLED BLOCK (MIN 2000 psi COMPRESSIVE STRENGTH FOR GROUT), OR CONCRETE (MIN 3000 PSI).
4. SEE EXTERIOR ELEVATIONS FOR ANCHOR LOCATIONS AND SPACING.
5. ENSURE MINIMUM OF 2-1/2" EDGE DISTANCE FOR ALL ANCHORS INTO GROUT-FILLED BLOCK OR CONCRETE, AND MINIMUM OF 1-1/2" EDGE DISTANCE FOR ALL WOOD ANCHORS.
6. ANCHOR OPTIONS FOR INSTALLATION ARE AS FOLLOWS:

TO 2x WOOD BUCK OR WOOD STRUCTURE  
#12 SMS, 3/16" OR 1/4" TAPCONS (ITW OR  
ELCO) WITH 1-1/2" MINIMUM EMBEDMENT.

TO CONC OR GROUT-FILLED BLOCK  
(DIRECTLY OR THRU 1x OR 2x WOOD BUCK)  
3/16" OR 1/4" TAPCONS (ITW OR ELCO)  
WITH 1-1/4" MINIMUM EMBEDMENT TO  
CONC OR GROUT-FILLED BLOCK.

Approved as complying with the  
Florida Building Code  
Date 04/22/04  
NOAH 04-0122-16  
Miami Code Product Control  
Division  
By: *Alison Bell*

**1** SECTION OF RESIDENTIAL DOOR  
HALF SCALE

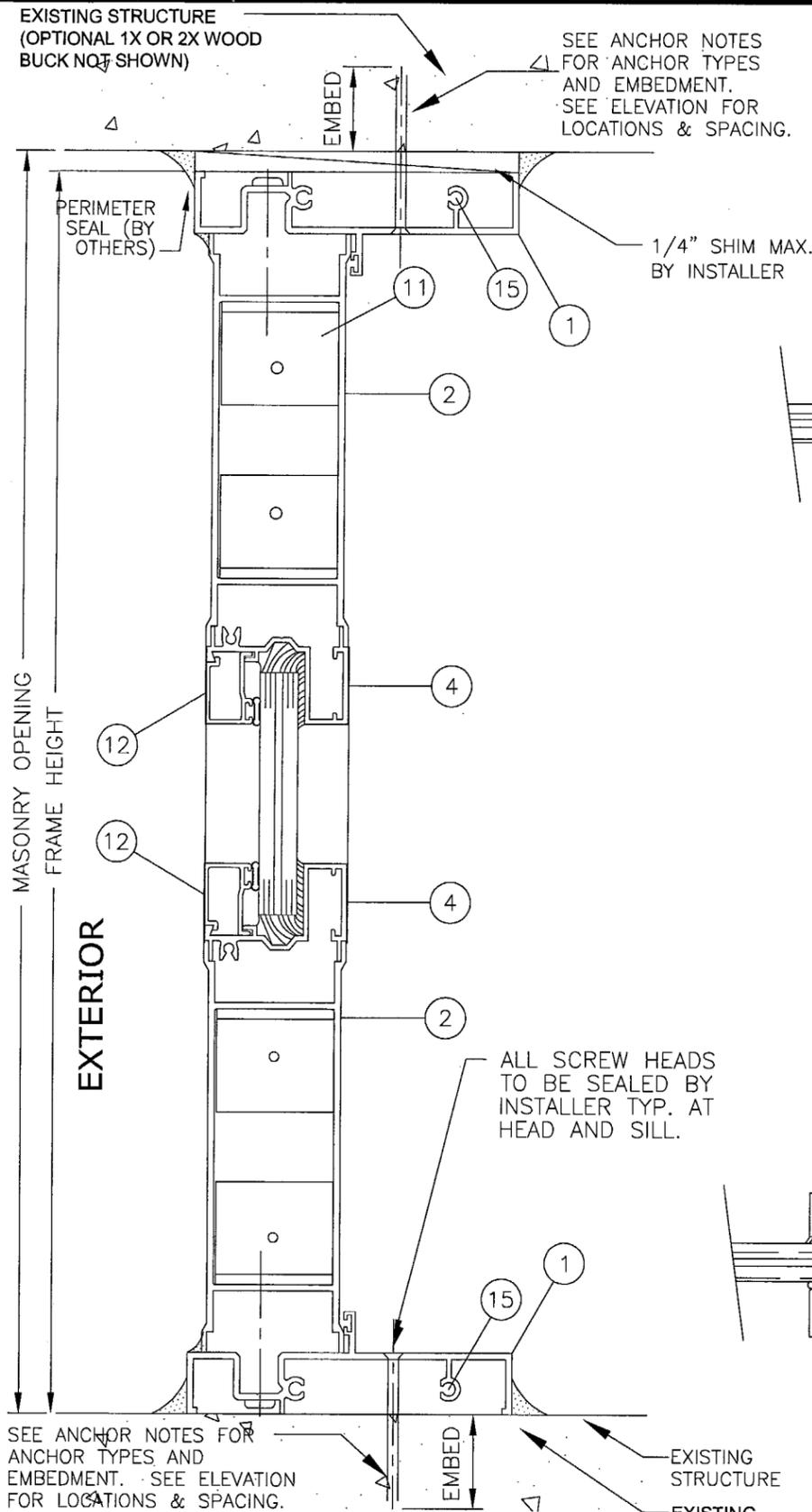
**TRACO**  
Windows & Doors Inc.

71 Progress Avenue,  
Cranberry Township, PA 16166  
Tel. (724) 776-7000

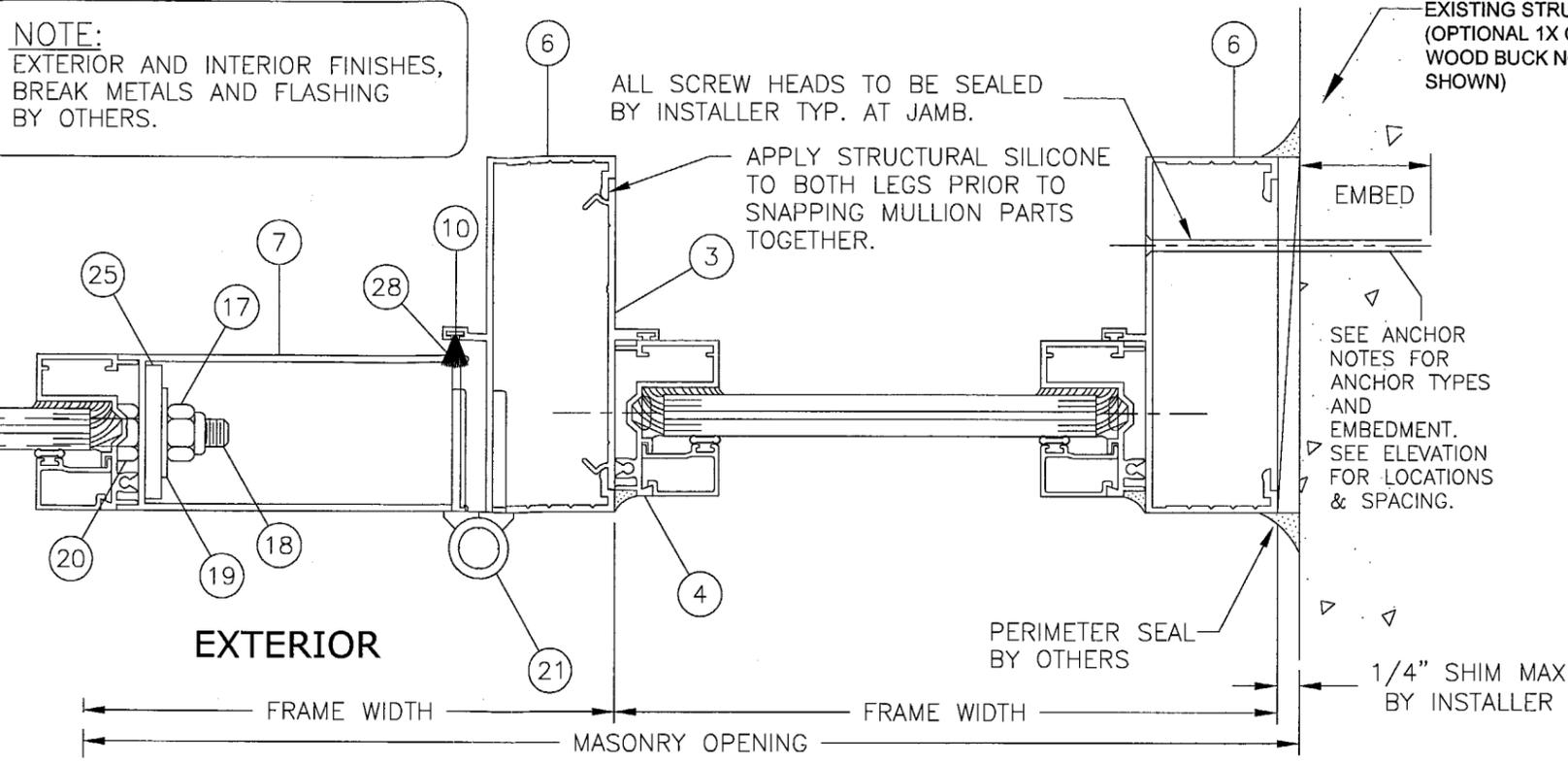
SERIES DORAL 3 OUTSWING ALUMINUM  
PATIO DOOR (SMALL MISSILE)

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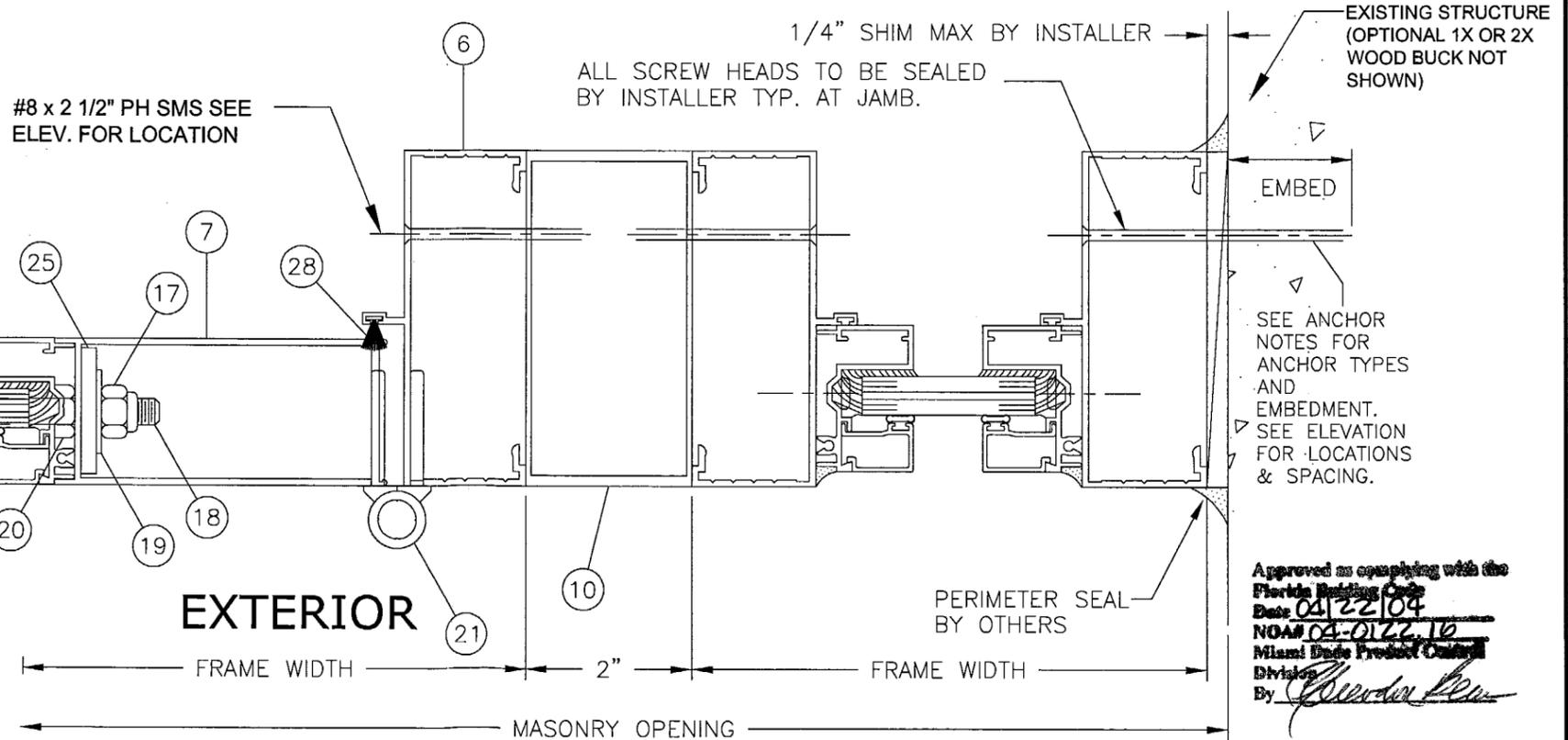
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CHECKED BY: FIB  
ORIG DATE: 12/22/04  
DUG #: 04-113-001A



**4** SECTION OF SIDELITE  
HALF SCALE



**5a** SECTION OF SNAP-MULLION SIDELITE  
HALF SCALE



**5b** SECTION OF TUBE-MULLION SIDELITE  
HALF SCALE

MAR 25 2004  
FRANK L. BENNARDO, P.E.  
#2246343

FRANK L. BENNARDO, P.E.  
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71 Progress Avenue,  
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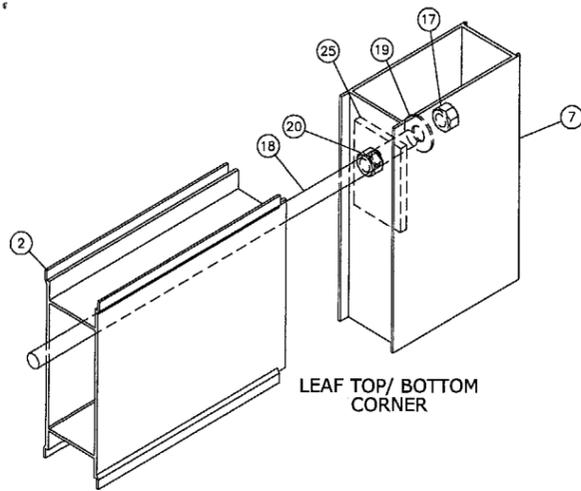
**TRACO**  
Windows & Doors Inc.  
SERIES DORAL 3 OUTSWING ALUMINUM  
PATIO DOOR (SMALL MISSILE)



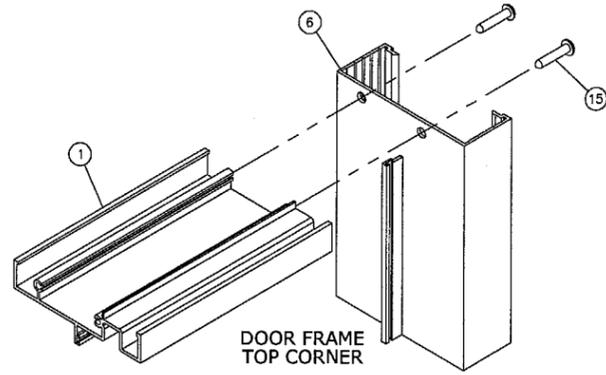
Approved as complying with the  
Florida Building Code  
Date: 04-22-10  
NOAA 04-0122-10  
Miami Dade Product Control  
Division  
By: *[Signature]*

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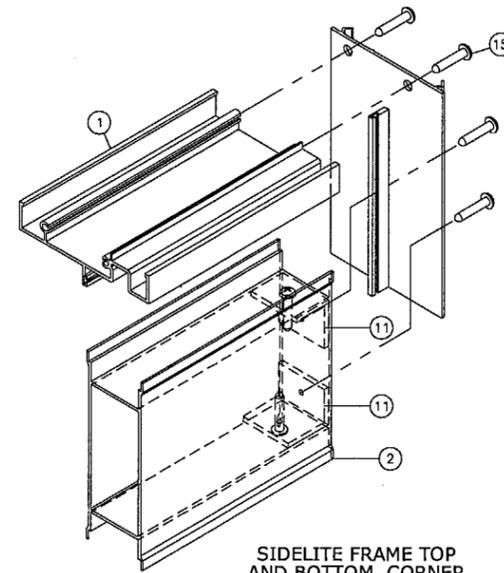
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ORIG DATE: 1/22/04  
DWG #: 04-13-001A



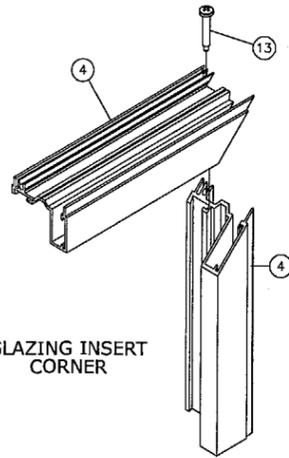
LEAF TOP/ BOTTOM CORNER



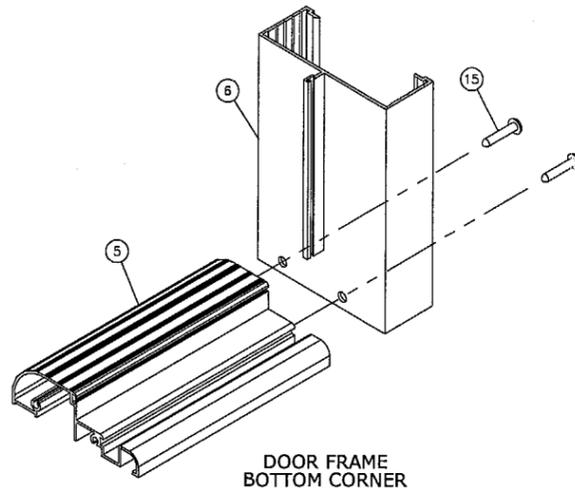
DOOR FRAME TOP CORNER



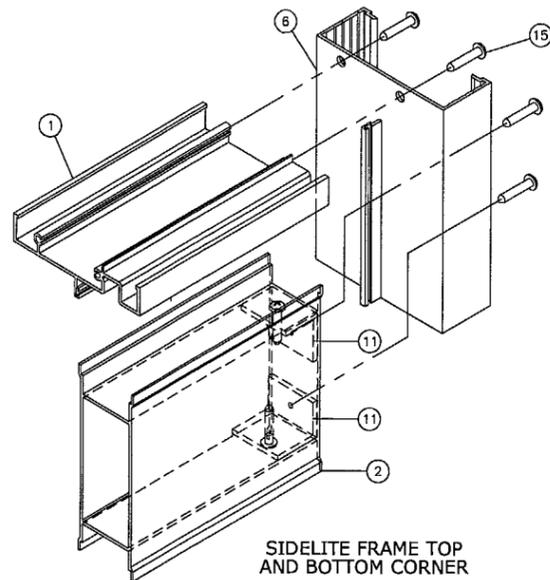
SIDELITE FRAME TOP AND BOTTOM CORNER AT MULLION



GLAZING INSERT CORNER



DOOR FRAME BOTTOM CORNER



SIDELITE FRAME TOP AND BOTTOM CORNER

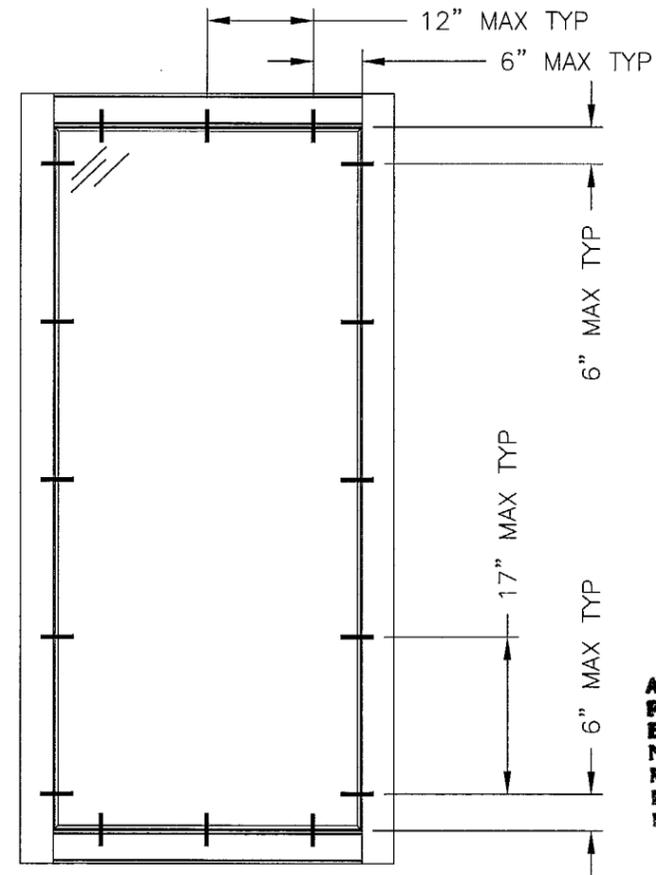
**SEALANTS:**  
ALL FRAME AND LEAF CORNERS, INSTALLATION SCREWS AT SILL AND JAMBS AND BOTTOM GLAZING BEAD SHALL BE SEALED WITH SCHEE MOREHEAD 5504 SEALANT.

**HINGES:**  
4" LONG ALUM. BUTT HINGES WITH .312 DIA X 2-1/2" ALUM PIN, BRASS SPACER AND NYLON CAPS AT 3 1/2" FROM TOP & BOTTOM AND AT MIDSPAN

**LOCKS:**  
STANDARD STEEL THROW BOLT LOCK, KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR 39 1/2" FROM BOTTOM AT ACTIVE LEAF LOCK STILE

CONVENTIONAL LOCKSET WITH LEVER TYPE OPERATOR HANDLE AT ACTIVE LEAF LOCK STILE NEAR MIDSPAN

STANDARD FLUSH BOLTS, MANUALLY OPERATED AT TOP AND BOTTOM OF EACH ACTIVE AND INACTIVE LEAF



GLAZING INSERT FASTENER SPACING

Approved as complying with the Florida Building Code  
Date: 04/22/04  
NOAH 04-0122.16  
Miami Dade Product Control  
Division  
By: *Meridian Kew*

MAR 25 2004

FRANK L. BERNARDO, P.E.  
TE 88246548

FRANK L. BERNARDO, P.E.  
CONSULTING ENGINEER

4441 NORTH DIXIE HIGHWAY  
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**TRACO**  
Windows & Doors Inc.



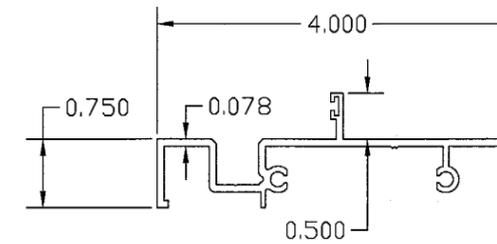
SERIES DORAL 3 OUTSWING ALUMINUM PATIO DOOR (SMALL MISSILE)

| REVISIONS   |      |
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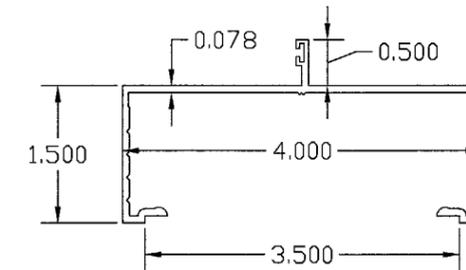
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CHECKED BY: FLP  
ORIG DATE: 12/22/04  
DWG #: 04-113-01A

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5 OF 6

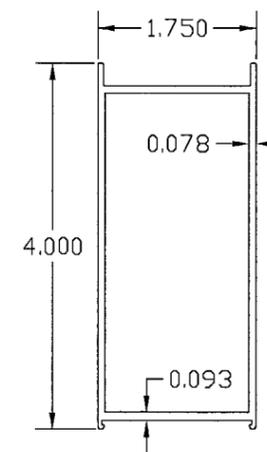
| MATERIAL LIST |             |                        |  |          |                        |
|---------------|-------------|------------------------|--|----------|------------------------|
| ITEM NO.      | PART NUMBER | QUANTITY               | DESCRIPTION                                    | MATERIAL | MANF./SUPPLIER/REMARKS |
| 1             | 050-338     | 1/DOOR<br>2/SIDELITE   | ATRIUM FRAME HEAD<br>ATRIUM FRAME HEAD OR SILL | 6063-T6  | TIFTON OR EQUIV.       |
| 2             | 050-389     | 2/ LEAF                | DOOR LEAF TOP & BOTTOM RAIL                    | 6063-T5  | ALUMAX OR EQUIV.       |
| 3             | 050-002     | 1/ SIDELITE            | SNAP CANTILEVER                                | 6063-T5  | -                      |
| 4             | 050-763     | 4/ GLASS LITE          | GLAZING SUB FRAME                              | 6063-T6  | TIFTON OR EQUIV.       |
| 5             | 050-138     | 1 @ DOOR               | THREASHOLD                                     | 6063-T5  | ALUMAX OR EQUIV.       |
| 6             | 050-292     | 2/ DOOR<br>1/ SIDELITE | ATRIUM FRAME JAMB                              | 6063-T5  | TIFTON OR EQUIV.       |
| 7             | 051-394     | 2/ LEAF                | RESIDENTIAL DOOR PANEL VERTICAL STILE          | 6063-T5  | TIFTON OR EQUIV.       |
| 8             | 050-455     | 1/ LEAF                | GAP CLOSURE                                    | 6063-T5  | TIFTON OR EQUIV.       |
| 9             | -           | -                      | -  | -        | -                      |
| 10            | H-1006      | AS REQD.               | 2" X 4" TUBE MULLION                           | 6063-T5  | TRECO OR EQUIV.        |
| 11            | 050-124     | AS REQD.               | 1" x 1 1/4" X 1/8" ANGLE                       | ALUMINUM | -                      |
| 12            | 050-764     | AS REQD.               | GLAZING BEAD                                   | 6063-T6  | TIFTON OR EQUIV.       |
| 13            | 012-00-401  | AS REQD.               | #10 X 1/2" FLAT HEAD SCREW                     | -        | -                      |
| 14            | AS REQD.    | -                      | 1/8" SHIM                                      | PLASTIC  | -                      |
| 15            | -           | 8/ FRAME               | #10 X 1" DOOR FRAME ASSEMBLY SCREW             | -        | -                      |
| 16            | 007-14-039A | AS REQD.               | DOOR HANDLE                                    | -        | MARBOLLO               |
| 17            | -           | 4/ LEAF                | 1/2" SELF LOCK NUT                             | STEEL    | -                      |
| 18            | -           | 2/ LEAF                | 1/2" ROD (2 X PANELS)                          | STEEL    | -                      |
| 19            | -           | 4/ LEAF                | 1/2" FLAT WASHER                               | STEEL    | -                      |
| 20            | -           | 4/ LEAF                | 1/2" REGULAR NUT                               | -        | -                      |
| 21            | 051-181     | 3/ LEAF                | HINGES   | -        | -                      |
| 22            | 007-10-051  | 2/ LEAF                | STANDARD FLUSH BOLT                            | -        | -                      |
| 23            | -           | 4                      | #8 x 1/2" SMS                                  | -        | -                      |
| 24            | 20-4164     | AS REQD.               | BULB VINYL                                     | VINYL    | -                      |
| 25            | -           | 4/ LEAF                | BLOCK ROD GUIDE                                | -        | -                      |
| 26            | 050-10-765  | 1                      | SILL RISER                                     | ALUMINUM | SILL RISER             |
| 27            | -           | 1/ LEAF                | 1 X .050 ALUM BAR (BETWEEN VERTICALS)          | ALUMINUM | -                      |
| 28            | 047-10-014  | AS REQD.               | FIN SEAL WEATHER-STRIPPING                     | -        | -                      |



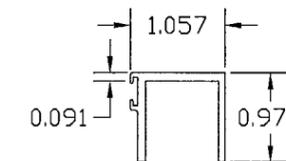
ATRIUM FRAME HEAD/SILL



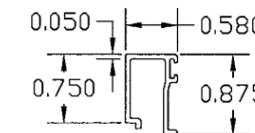
DOOR FRAME JAMB



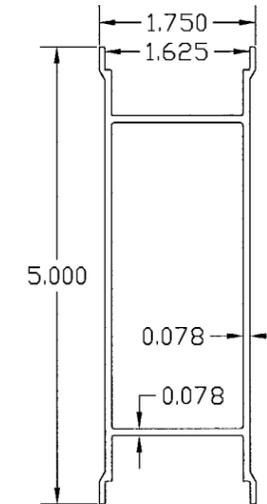
DOOR STILE



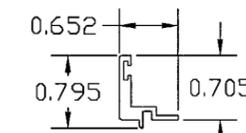
SILL RISER



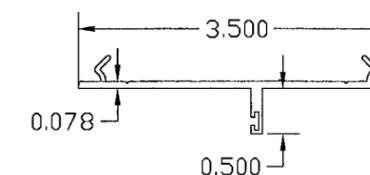
GLAZING BEAD



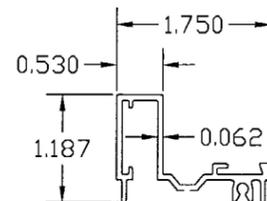
DOOR TOP/  
BOTTOM RAIL



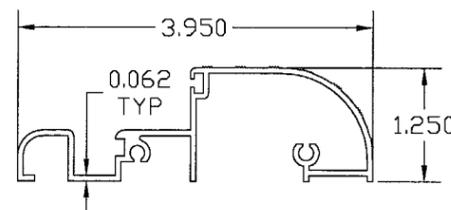
GAP CLOSURE



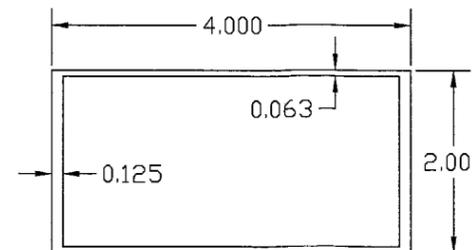
DOOR STOP



GLAZING  
SUBFRAME



THRESHOLD



H-1006 TUBE MULLION

Approved as complying with the  
Florida Building Code  
Date 04/22/04  
NOAH 04-0122.10  
Miami Dept Product Control  
Division  
By: *Meriam Kew*

MAR 25 2004

FRANK L. BENNARDO, P.E.  
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Cranberry Township, PA 16166  
Tel. (724) 776-7000

**TRACO**  
Windows & Doors Inc.



SERIES DORAL 3 OUTSWING ALUMINUM  
PATIO DOOR (SMALL MISSILE)

REVISIONS  
DESCRIPTION DATE

SCALE: 1/2" (UNO)  
DRAWN BY: MEH/CL  
CHECKED BY: FLEB  
ORIG DATE: 1/21/2004  
DWG #: 04-13-001A

SHEET:  
6 OF 6