



MIAMI-DADE COUNTY
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)

www.buildingcodeonline.com

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, titled "Series "Doral 3" Outswing Aluminum Patio Door", sheets 1 through 6 of 6, prepared by Engineering Express, dated 01/21/04 last revised on 04/02/08, signed and sealed by Frank L.Bennardo, 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: Small Missile Impact

Limit:

1. Snap on mullion maximum design pressure= +55/-60 psf
2. Tube mullion maximum design pressure= +90/-90 psf

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.

REVISION of this NOA shall be considered after a revision application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews** NOA # 06-1121.15 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No 08-0506.01
Expiration Date: April 22, 2014
Approval Date: June 26, 2008
Page 1

6/3/08

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

- A. DRAWINGS** (transferred from file #06-1121.15)
1. Manufacturer's die drawings and sections.
 2. Drawing No. **04-113-001A**, titled "Series "Doral 3" Outswing Aluminum Patio Door", sheets 1 through 6 of 6, prepared by Engineering Express, dated 01/21/04 last revised on 04/02/08, signed and sealed by Frank L. Bennardo, P.E.
- B. TESTS** (transferred from file #06-1121.15)
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) Small 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, prepared by Hurricane Test Laboratory, Inc., Test Report No. **0021-1007-03**, dated 12/18/03, signed and sealed by Vinu J. Abraham, P.E.
 2. Ref 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, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **T 220-06**, dated 09/11-16/06, signed and sealed by Daniel G. Farabaugh, P.E.
- C. CALCULATIONS**
1. Anchor Calculation and Structural analysis, prepared by Engineering Express, dated 04/11/08, signed and sealed by Frank L. Bennardo, P.E.
 2. Glazing with ASTM E1300-98/ 02
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **06-0216.06** issued to "Solutia Inc." for "Saflex IIIG Clear or Colored Interlayer" dated 05/04/2006, expiring on 05/21/2011.
- F. STATEMENTS**
1. Statement letter of conformance and no financial interest, dated 09/06/05, signed and sealed by Frank L. Bennardo, P.E.
 2. Statement letter of lab compliance. As part of the test report.
- G. OTHERS**
1. This NOA **revises & renews** NOA # **06-1121.15**, expiring April 22, 2009

Ishaq I. Chanda

Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 08-0506.01

Expiration Date: April 22, 2014

Approval Date: June 26, 2008

DORAL 3 OUTSWING DOOR WITH SIDELIGHTS

SMALL MISSILE IMPACT RESISTANT

FRANK L. BENNARDO, P.E.
PE0046549

04/02/2008

CLUSTER OF ANCHORS (MINIMUM QUANTITY SHOWN) REQUIRED AT EACH MULLION/ASTRAGAL AT HEAD AND SILL (MIN. 3" SPACING BETWEEN CLUSTER ANCHORS, REF LEGEND BELOW).

OVERALL FRAME WIDTH (144" MAX)

SIDELITE PANEL WIDTH (36" MAX)

SIDELITE PANEL WIDTH (36" MAX)

LEAF PANEL WIDTH (36" MAX)

LEAF PANEL WIDTH (36" MAX)

12" MAX TYP

6" MAX TYP

TYPICAL ANCHOR

OVERALL FRAME HEIGHT (96" MAX.)

SIDELITE D.L. OPG.

LEAF D.L. OPG.

TYP. JAMB FASTENING CONFIGURATION, AS SHOWN

GENERAL NOTES:

1. THE SWING DOOR SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE 2004 AND 2007 FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE) AND MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203.

2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.

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) AND #T220-06 BY FARABAUGH ENGINEERING & TESTING, INC (FET).

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. PANELS GLAZED WITH 7/16" LAMINATED GLASS ARE SMALL MISSILE IMPACT RESISTANT 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.

ENGINEERING EXPRESS

160 SW 12th AVENUE, # 106
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGEXP.COM

A FRANK L. BENNARDO, P.E., INC. INNOVATION

TRACO
Windows & Doors Inc.
71 PROGRESS AVENUE
CRANBERRY TOWNSHIP, PA 16166

SERIES DORAL 3
OUTSWING ALUMINUM PATIO DOOR
SMALL MISSILE IMPACT RESISTANT

DRWN	CHKD	DATE
MEH	FLB	01/21/04
CL	FLB	09/06/05
KL	CL	10/25/06
KL	CL	02/29/08

04-113-001A

SCALE: 1/8" = 1'-0"

PAGE DESCRIPTION: 05

1

LEGEND: ▽ WOOD ANCHORS ◆ CONC/MASONRY ANCHORS

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.)

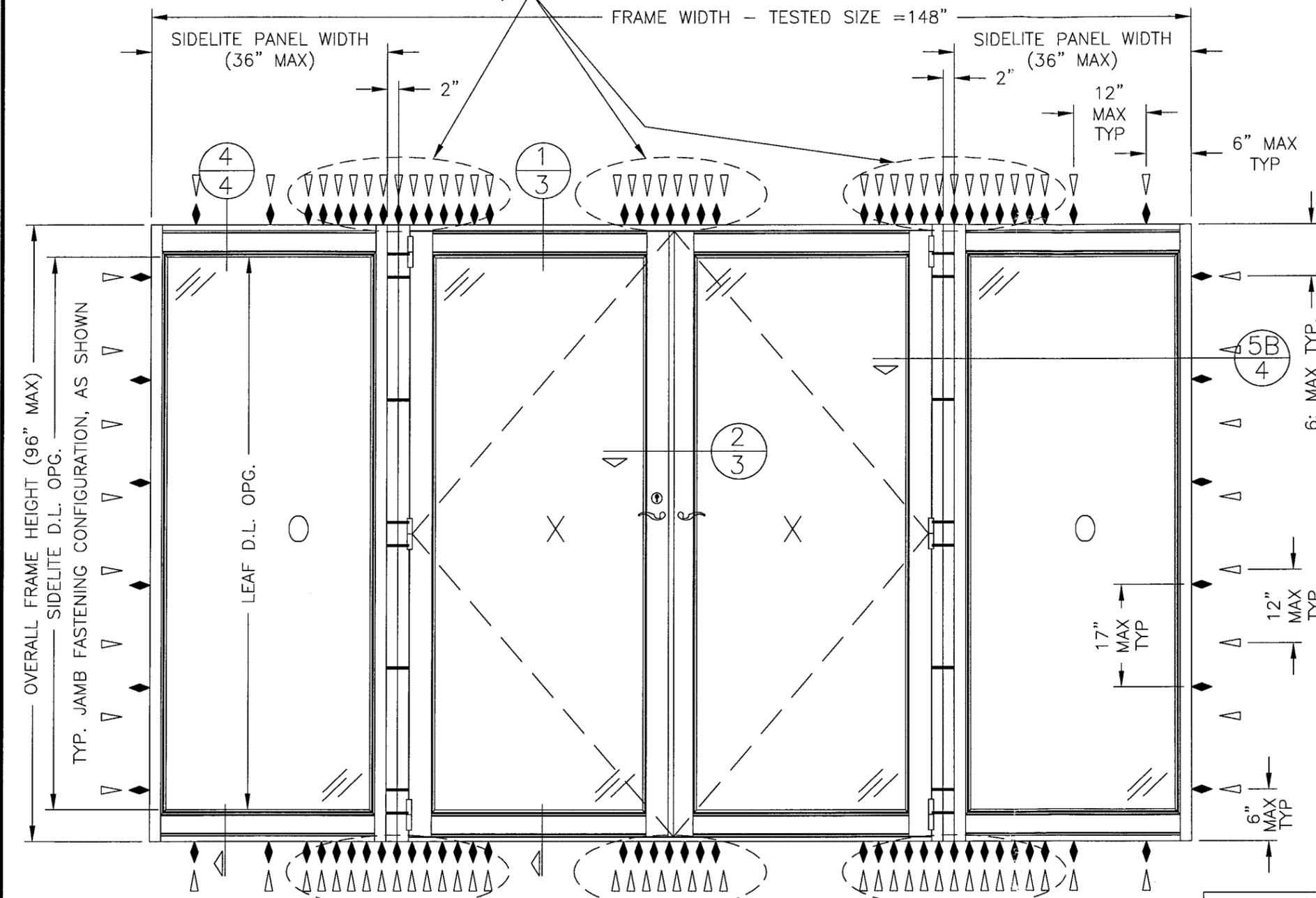
DESIGN PRESSURES:
7/16" LAMINATED GLASS
(WITH 0.090" PVB INTERLAYER ONLY)

+55 PSF / -60 PSF

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No *08-0506-01*
Expiration Date *APRIL 22, 2014*
By *Iskhan L. Chaudhary*
Miami Dade Product Control
Division

04/02/2008 - 10:55am keithr F:\01 Project Files\Traco (TRA)\2004 Jobs\04-113-001a Traco Doral 3 Outswing Door Small Missile\2008-03 Revise for 0.25" Tapcons\04-113-001a Traco Doral 3 Outswing Door + Sidelites (Small Missile) rev.2.2.dwg

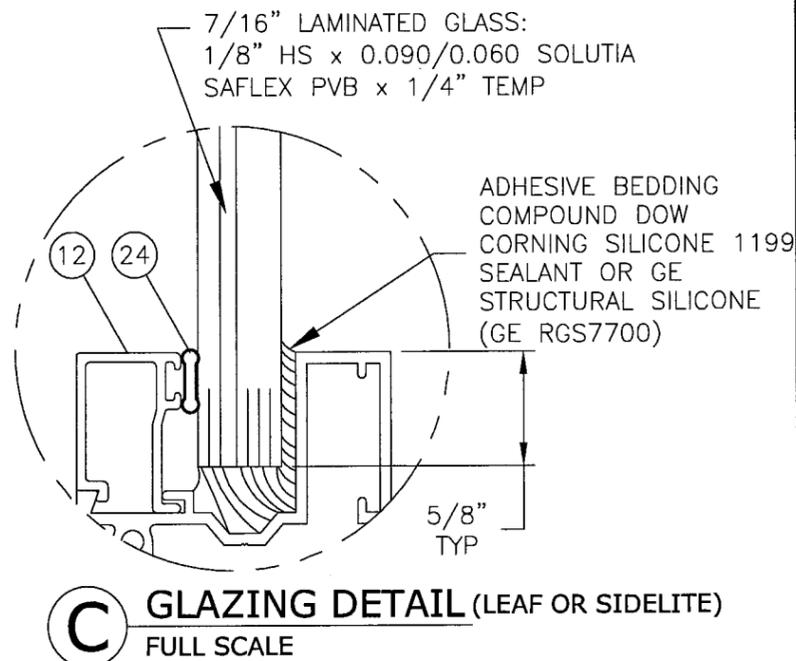
CLUSTER OF ANCHORS (MINIMUM QUANTITY SHOWN) REQUIRED AT EACH MULLION/ASTRAGAL AT HEAD AND SILL (MIN. 2" SPACING BETWEEN CLUSTER ANCHORS, REF. LEGEND BELOW).



LEGEND: ▽ WOOD ANCHORS ◆ CONC/MASONRY ANCHORS

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.)

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



PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No 08-0506-01
 Expiration Date APR 22, 2014
 By Isaac J. Chaudh
 Miami Dade Product Control Division

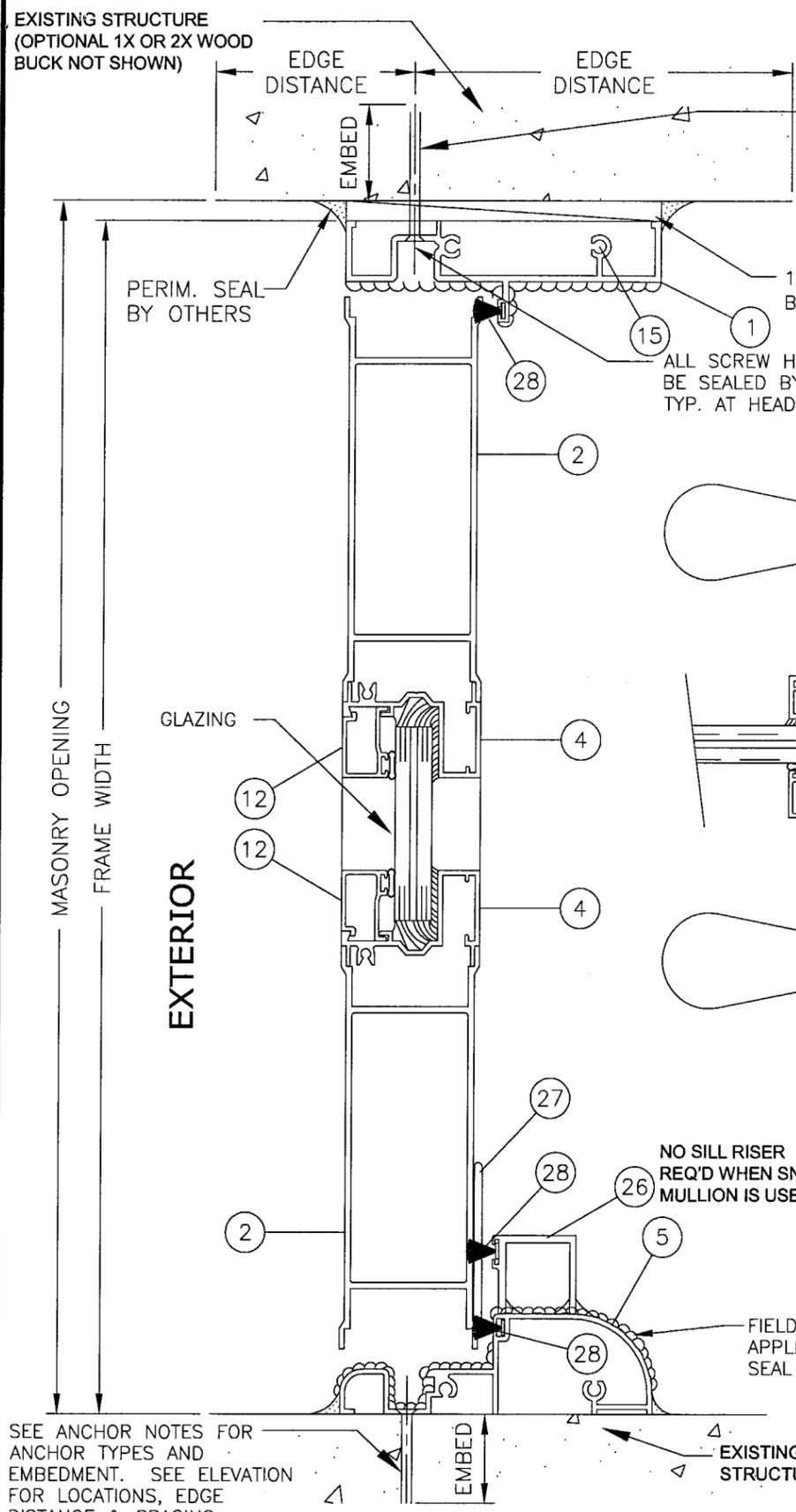
FRANK L. BENNARDO, P.E.
 # PE0046549
 04/02/2008
ENGINEERING EXPRESS
 160 SW 12th AVENUE, # 106
 DEERFIELD BEACH, FL 33442
 Ph: (954) 354-0660 Fax: (954) 354-0443
 WWW.ENGEXP.COM
 CERT OF AUTH #9885
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

TRACO
 Windows & Doors Inc.
 71 PROGRESS AVENUE
 CRANBERRY TOWNSHIP, PA 16166
 SERIES DORAL 3
 OUTSWING ALUMINUM PATIO DOOR
 SMALL MISSILE IMPACT RESISTANT

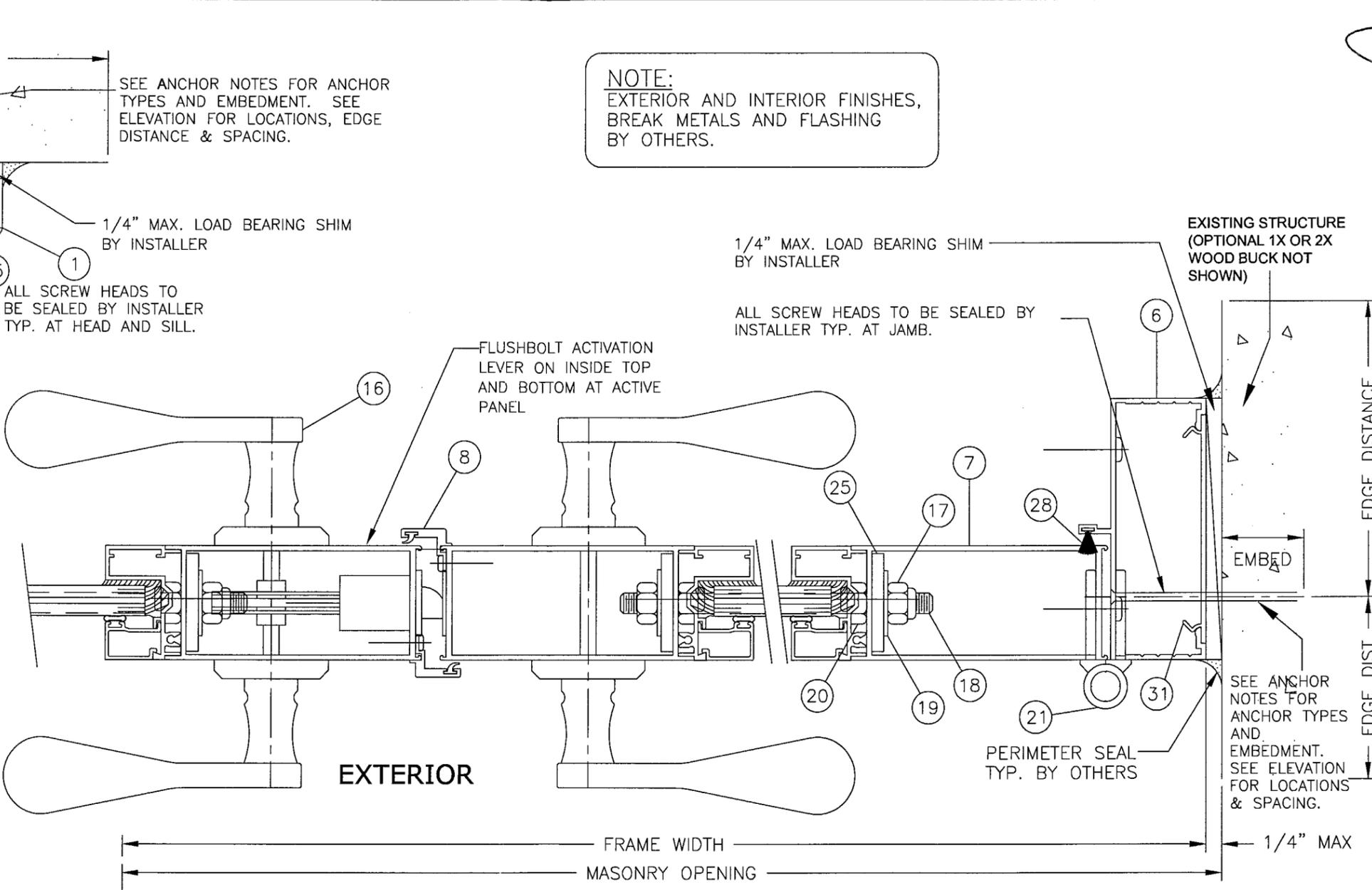
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CL	FLB	09/06/05
SILICONE SEALANT	KL	10/25/06
REV. ANCHORS	KL	02/29/08

04-113-001A
 SCALE: 05
 PAGE DESCRIPTION:
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1 SECTION OF RESIDENTIAL DOOR
HALF SCALE



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 1500 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 (MIN 1500 PSI) OR CONCRETE (MIN 3000 PSI), 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 #14 WOOD SCREW OR 1/4" TAPCONS (ITW OR ELCO) WITH 1-1/2" MINIMUM EMBEDMENT.	TO CONC (MIN 3000 PSI) OR GROUT-FILLED BLOCK (MIN 1500 PSI) (DIRECTLY OR THRU 1x OR 2x WOOD BUCK) 1/4" TAPCONS (ITW) WITH 1-3/4" MINIMUM EMBEDMENT TO CONC (MIN 3000 PSI) OR GROUT-FILLED BLOCK (MIN 1500 PSI).
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NOTE:
EXTERIOR AND INTERIOR FINISHES, BREAK METALS AND FLASHING BY OTHERS.

FRANK L. BENNARDO, P.E.
PE0046549

04/02/2008

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Ph: (954) 354-0660 Fax: (954) 354-0443
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SERIES DORAL 3
OUTSWING ALUMINUM PATIO DOOR
SMALL MISSILE IMPACT RESISTANT

DRWN	CHKD	DATE
MEH	FLB	01/27/04
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KL	CL	10/25/08
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REMARKS

INIT ISSUE

2004 FBC

SILICONE SEALANT

REV. ANCHORS

By Ishag I. Chande
Miami Dade Product Control Division

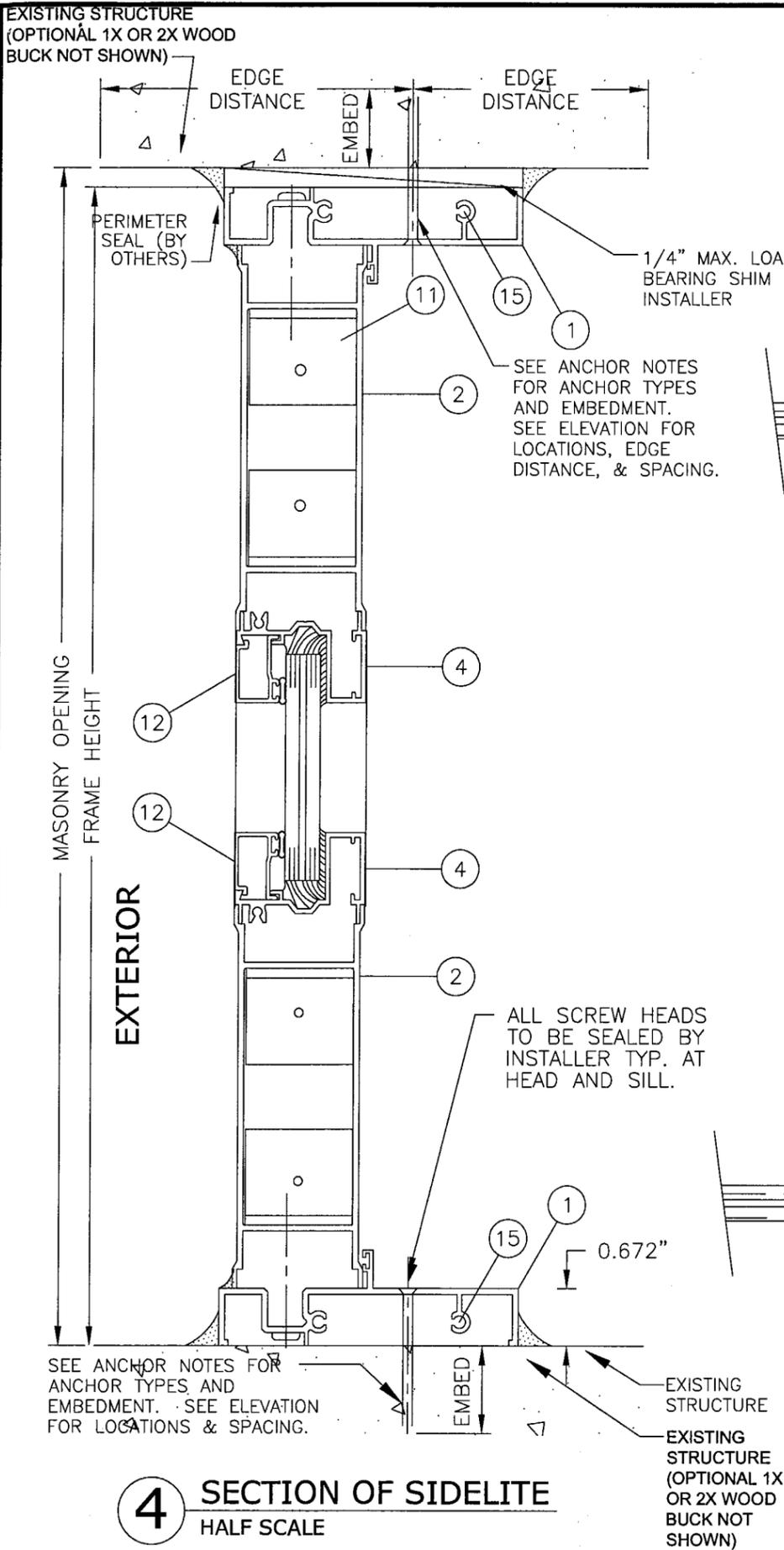
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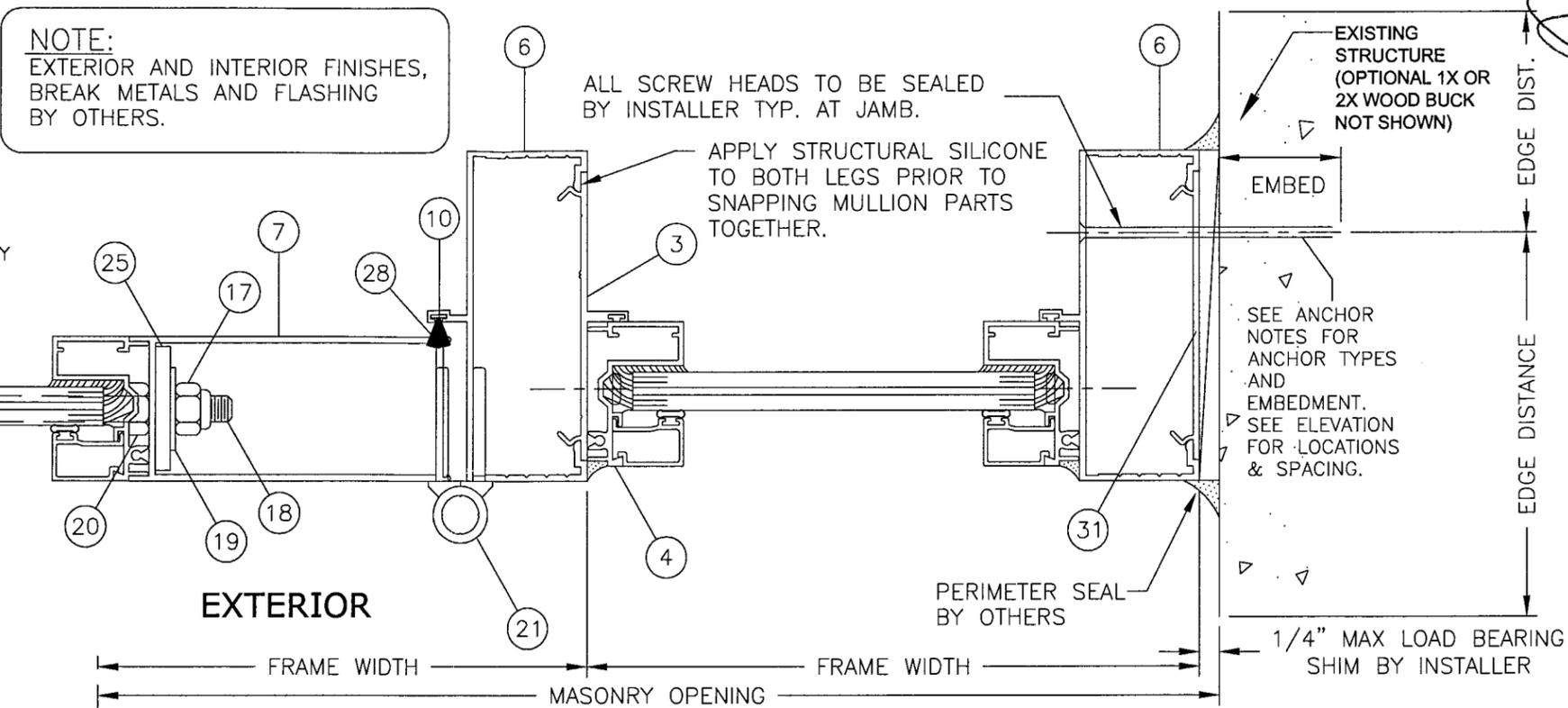
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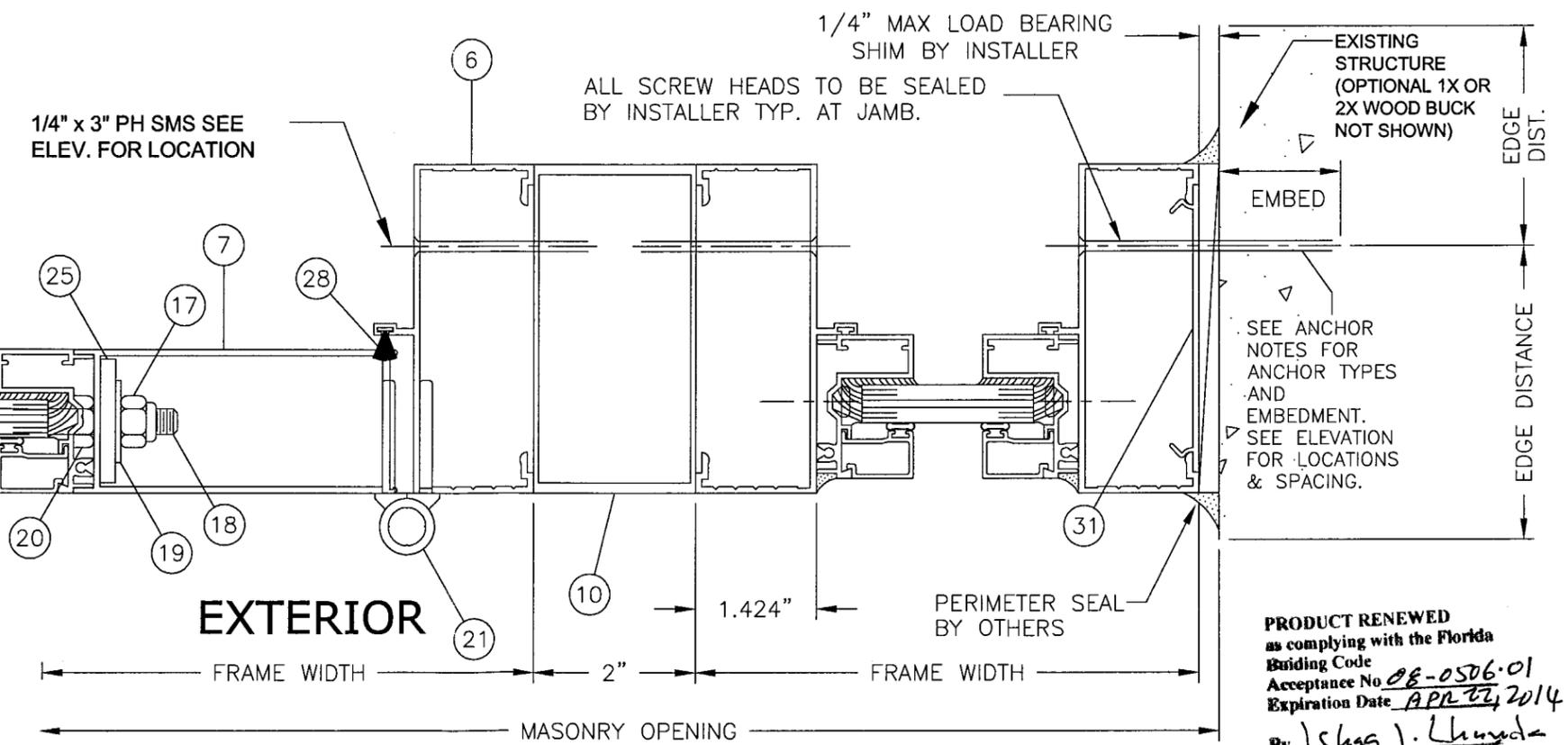
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4 SECTION OF SIDELITE
HALF SCALE



5a SECTION OF SNAP-MULLION SIDELITE
HALF SCALE



5b SECTION OF TUBE-MULLION SIDELITE
HALF SCALE

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. *08-0506-01*
Expiration Date *APR 24, 2014*
By *Shag L. Chynka*
Miami Dade Product Control
Division

FRANK L. BENNARDO, P.E.
PE0046549

04/02/2008

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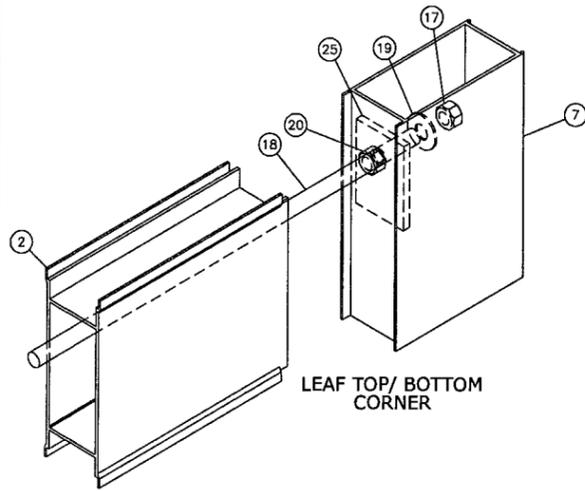
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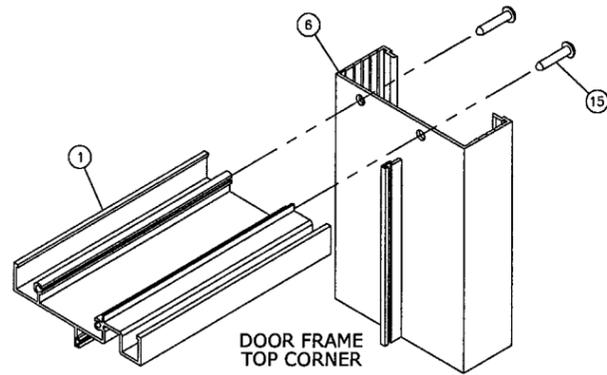
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SILICONE SEALANT	CL	FLB	09/06/05
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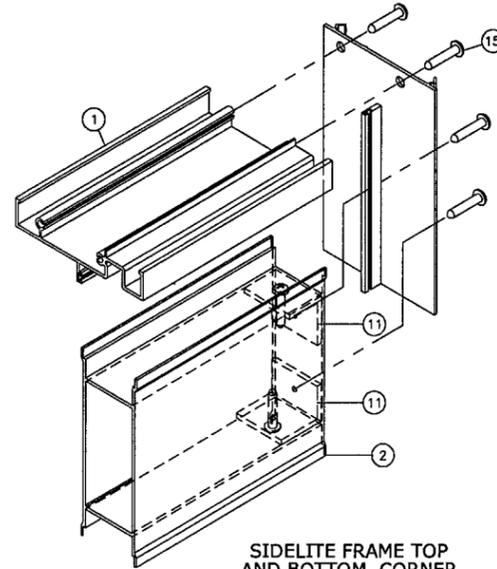
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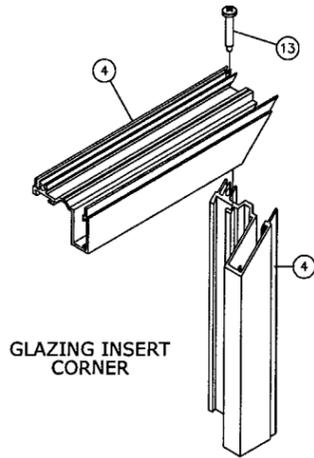
LEAF TOP/ BOTTOM CORNER



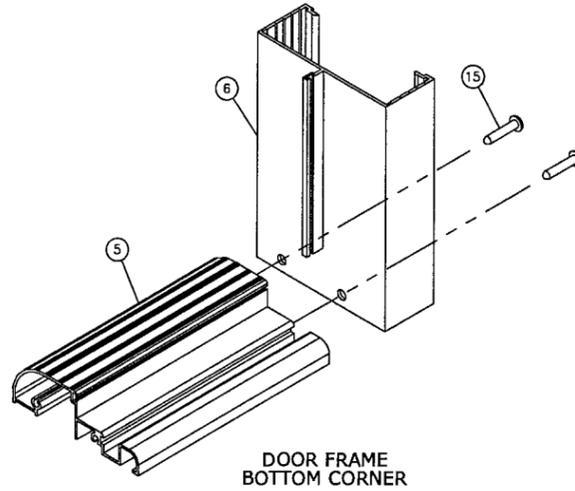
DOOR FRAME TOP CORNER



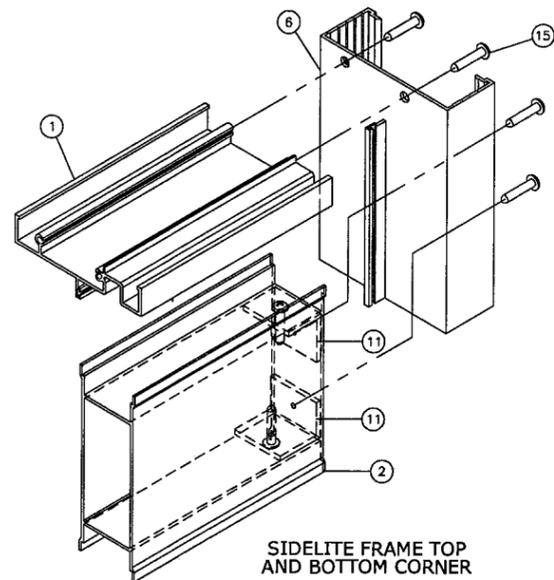
SIDELITE FRAME TOP AND BOTTOM CORNER AT MULLION



GLAZING INSERT CORNER



DOOR FRAME BOTTOM CORNER



SIDELITE FRAME TOP AND BOTTOM CORNER

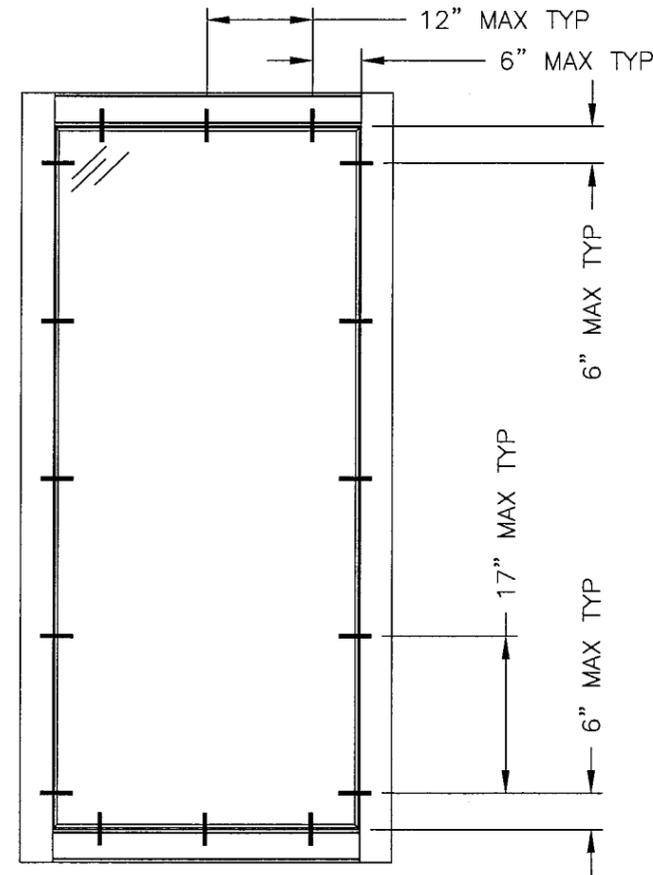
SEALANTS:
ALL FRAME AND LEAF CORNERS, INSTALLATION SCREWS AT SILL AND JAMBS AND BOTTOM GLAZING BEAD SHALL BE SEALED WITH SCHEE MOREHEAD 5504 SEALANT.

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

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0506-01
Expiration Date APR 22, 2014
By Ishag I. Chanda
Miami Dade Product Control Division

FRANK L. BENNARDO, P.E.
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04/02/2008

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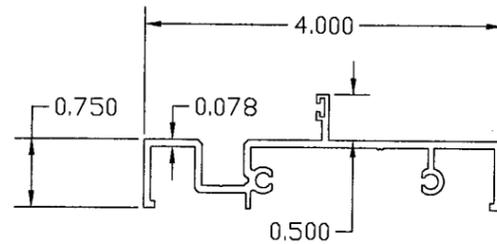
REMARKS
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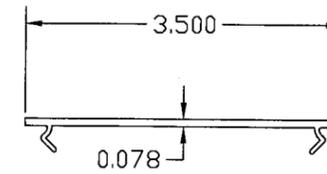
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MATERIAL LIST.

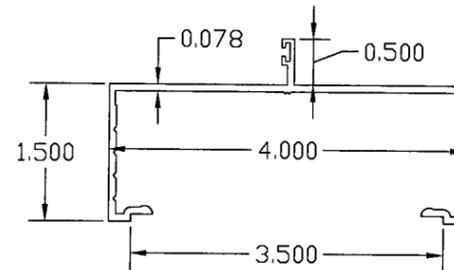
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	050-338	1/DOOR 2/SIDELITE	ATRIUM FRAME HEAD ATRIUM FRAME HEAD OR SILL	6063-T6	TIFTON OR EQUIV.
2	050-389	2/ LEAF	DOOR LEAF TOP & BOTTOM RAIL	6063-T5	ALUMAX OR EQUIV.
3	050-002	1/ SIDELITE	SNAP CANTILEVER	6063-T5	-
4	050-763	4/ GLASS LITE	GLAZING SUB FRAME	6063-T6	TIFTON OR EQUIV.
5	050-138	1 @ DOOR	THRESHOLD	6063-T5	ALUMAX OR EQUIV.
6	050-292	2/ DOOR 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	6063-T5	-
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	6063-T5	SILL RISER
27	-	1/ LEAF	1 X .050 ALUM BAR (BETWEEN VERTICALS)	6063-T5	-
28	047-10-014	AS REQD.	FIN SEAL WEATHER-STRIPPING	-	-
29	-	AS REQD.	DOW CORNING SILICONE 1199 SEALANT	-	DOW CORNING
30	05-0127-10 05-0128-16	AS REQD.	TWO-PART GE STRUCTURAL SILICONE	-	GE RGS7700
31	S-1138	AS REQD.	ANCHOR CLIP	6063-T5	-



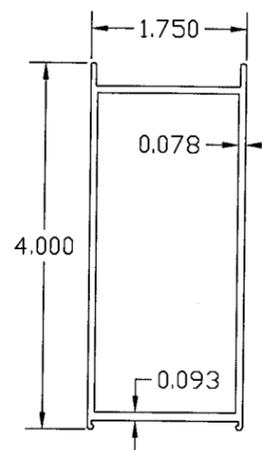
ATRIUM FRAME HEAD/SILL



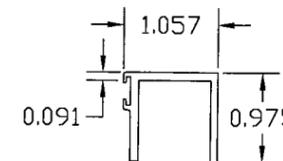
ANCHOR CLIP



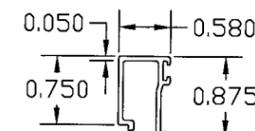
DOOR FRAME JAMB



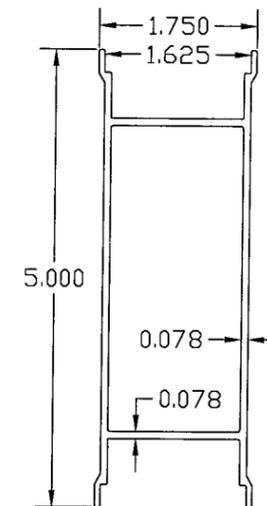
DOOR STILE



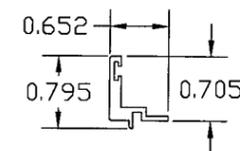
SILL RISER



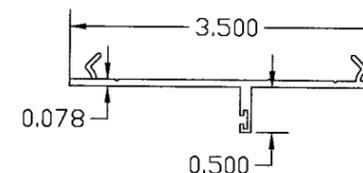
GLAZING BEAD



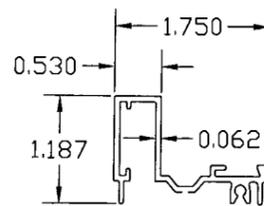
DOOR TOP/
BOTTOM RAIL



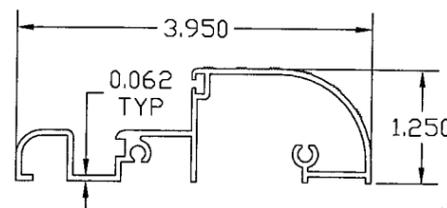
GAP CLOSURE



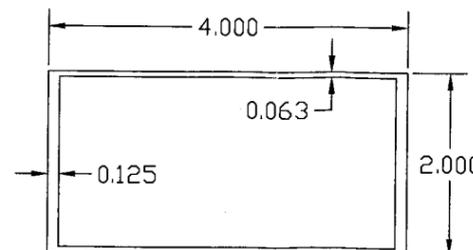
DOOR STOP



GLAZING SUBFRAME



THRESHOLD



H-1006 TUBE MULLION

FRANK L. BENNARDO, P.E.
PE0046549

04/02/2008



160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443

WWW.ENGEXP.COM
CERT. OF AUTH. #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION



71 PROGRESS AVENUE
CRANBERRY TOWNSHIP, PA 16166

SERIES DORAL 3
OUTSWING ALUMINUM PATIO DOOR
SMALL MISSILE IMPACT RESISTANT

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	MEH	FLB	01/21/04
2004 FRC	CL	FLB	09/06/05
SILICONE SEALANT	KL	CL	10/25/06
REV. ANCHORS	KL	CL	02/29/08



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0506-01
Expiration Date APR 22, 2014
By Ishag J. Chnyde
Miami Dade Product Control
Division

04-113-001A

SCALE: 1/8" = 1'-0" 05

PAGE DESCRIPTION: