



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

www.miamidade.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

Dorma Automatics, Inc.
924 Sherwood Drive
Lake Bluff, IL 60044

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 "ESA 300" Aluminum Automatic Sliding Glass Door (O-Sx-Sx-O) w/ Breakout

APPROVAL DOCUMENT: Drawing No. **05-DOA-0004**, titled "ESA 300 Series Automatic Sliding Glass Doors (Large Missile-Impact Resistant)", sheets 1 through 4 of 4, prepared by Engineering Express, dated 05/09/06, and last revised on 08/10/09, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

- Limitation:** 1. Fixed panel top Rails to be secured with #10x 3/4"SMS @6" OC at Head and bottom Rail with #10x 3/4"SMS @6" OC at bottom guide.
 2. Electrical devices are not part of this approval and must be reviewed by corresponding authority.
 3. See applicable Design Pressure rating per glazing type B, C or D.

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 revises NOA # **07-0625.03(06-0518.04)** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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

NOA No 09-0415.06

Expiration Date: February 01, 2012

Approval Date: October 14, 2009

Page 1



9/22/19

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (*Transferred from NOA# 07-0625.03(06-0518.04)*)
1. Manufacturers die drawings and sections.
 2. Drawing No. **05-DOA-0004**, titled "ESA 300 Series Automatic Sliding Glass Doors (Large Missile-Impact Resistant)", sheets 1 through 4 of 4, prepared by Engineering Express, dated 05/09/06, and last revised on 08/10/09, signed and sealed by Frank L. Bennardo, P.E.
- B. TESTS** (*Transferred from NOA# 07-0625.03(06-0518.04)*)
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94 (Not Performed)
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 marked-up drawings and installation diagram of an automatic aluminum Sliding Glass Door, prepared by Hurricane Test Laboratory, LLC, Test Report No(s). **HTL-0357-0107-06** (Sp#1 &2) dated 01/04/06-03/30/07 and **HTL-0357-0605-05** (Sp#1, 2 &3) dated 08/25/05-09/20/05, signed & sealed by Vinu J. Abraham, P.E.
- C. CALCULATIONS**
1. Anchor Verification Calculations, complying w/ FBC-2007, dated 01-26-2009 and last revised on 08/10/09, prepared, signed and sealed by Frank L. Bennardo, P. E.
 2. Glazing complies with ASTM E-1300-02 &-04
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **08-0520.08** issued to issued to Solutia Inc., for "Vanceva Composite Glass Interlayer", expiring on 12/11/2013.
 2. Notice of Acceptance No. **04-0818.01** issued to E.I. DuPont DeNemours, for "Sentry Glass ® 457", expiring on 01/13/2010.
- F. STATEMENTS**
1. Statement letter compliance to FBC-2007, dated April 08, 2009, signed by Frank L. Bennardo, P. E.
 2. Statement letter of "No financial interest" dated 05/09/06, as part of file # 06-0518.04.
 3. Statement of lab compliance, as part of the above referenced test report.
- G. OTHER**
1. This NOA revises NOA # **07-0625.03(06-0518.04)**, expiring February 01, 2012.

Ishaq I. Chanda

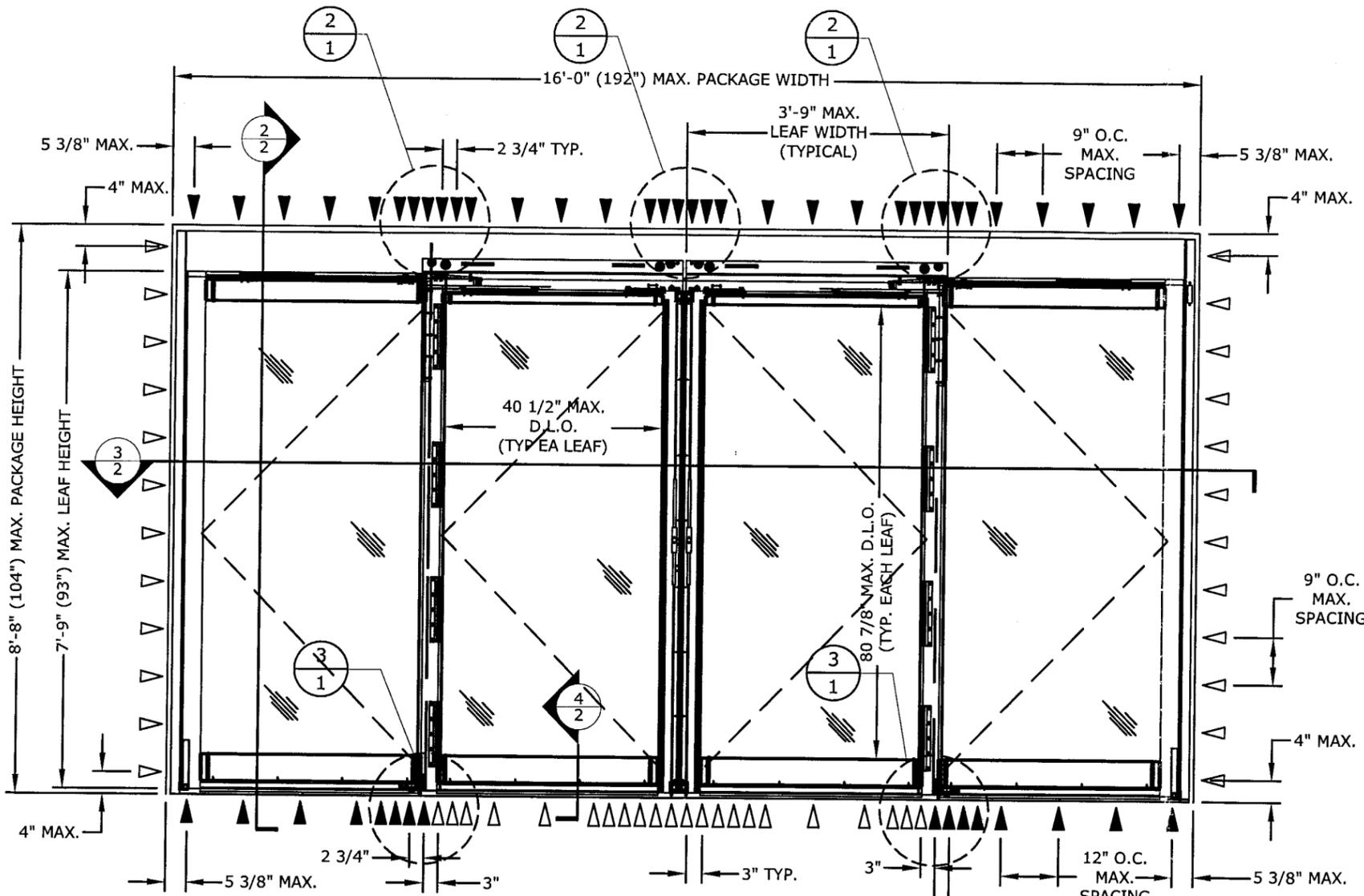
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 09-0415.06
Expiration Date: February 01, 2012
Approval Date: October 14, 2009

ESA 300 AUTOMATIC SLIDING GLASS DOOR

LARGE MISSILE IMPACT RESISTANT - FULL BREAKOUT

FRANK L. BENNARDO, P.E.
PE0046549

08/10/2009



EXTERIOR ELEVATION

1 SO-SX-SX-SO (CONFIGURATION)
1 N.T.S. ELEV.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0415-06
Expiration Date FEB 01, 2012
By Ishag J. Chank
Miami Dade Product Control
Division

| DESIGN PRESSURE RATING | | | |
|------------------------|---|---|-------------|
| | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED. | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED. | |
| GLAZING TYPES | "B", "C" OR "D" * | "B" * | "C" OR "D"* |
| POSITIVE | NOT APPROVED | + 45.0 PSF | + 52.4 PSF |
| NEGATIVE | NOT APPROVED | - 45.0 PSF | - 52.4 PSF |

* SEE GLAZING SCHEDULE ON SHEET "2"

GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED & DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2007 FLORIDA BUILDING CODE - HIGH VELOCITY HURRICANE ZONE (HVHZ) - AND HVHZ TEST PROTOCOL TAS 201, 202 & 203 AS LARGE MISSILE IMPACT RESISTANT SYSTEM.
- 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.
- POSITIVE & NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. WHERE SITE CONDITIONS DIFFER FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND ADDITIONAL IMPOSED LOADS. WOOD BUCKS NOT BY THIS PRODUCT MANUFACTURER SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE HOST STRUCTURE.
- THE PRODUCT DETAILED HEREIN HAS BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS & LOADS SHOWN ON THESE DRAWINGS.
- ALL ALUMINUM EXTRUSIONS ARE 6063-T5 OR 6063-T6 ALUMINUM.
- ALL UNITS ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS FOR ALL EXTERIOR DOOR INSTALLATIONS.
- ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, SPACED AS NOTED HEREIN. ANCHOR EMBEDMENT TO BASE MATERIAL DOES NOT INCLUDE WALL DRESSING OR STUCCO.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED, OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, EXCEPT INSTALLATION ANCHORS.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR COATED.
- STRUCTURAL SILICONE ADHESIVE IS APPLIED ATOP OF HEADER, JAMBS, AND BELOW SIDE GUIDE, SPACER, AND THRESHOLDS.

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CERT. OF AUTH. #0885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

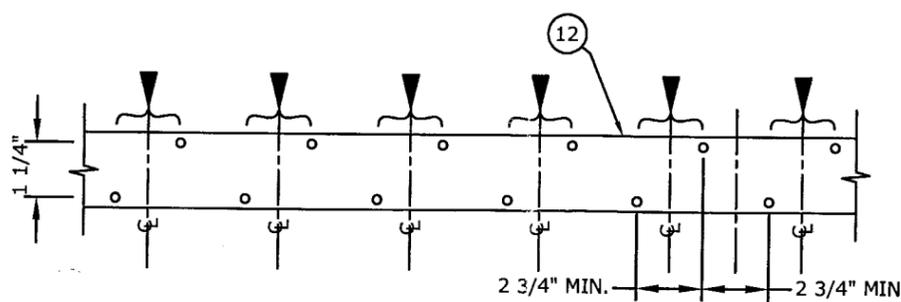
DORMA AUTOMATICS
924 SHERWOOD DRIVE
LAKE BLUFF, ILLINOIS 60044
WWW.DORMA-USA.COM
ESA 300 SERIES
AUTOMATIC SLIDING GLASS DOORS
(LARGE MISSILE IMPACT RESISTANT)

| REMARKS | DRWN | CHKD | DATE |
|---------------|------|------|----------|
| INIT ISSUE | AVL | CL | 05/09/06 |
| BCCO COMMENTS | AVL | CL | 11/06/06 |
| 2007 FBC | RKB | CL | 07/16/08 |

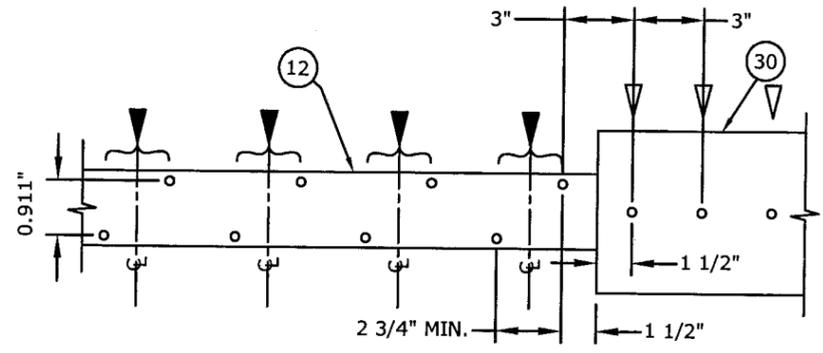
05-DOA-0004
SCALE: N.T.S. 01
PAGE DESCRIPTION:

ANCHOR LEGEND:

- ▽ INDICATES SINGLE ANCHOR (INLINE)
- ▼ INDICATES STAGGERED PAIR OF ANCHORS (CENTERLINE SHOWN ON ELEVATION)



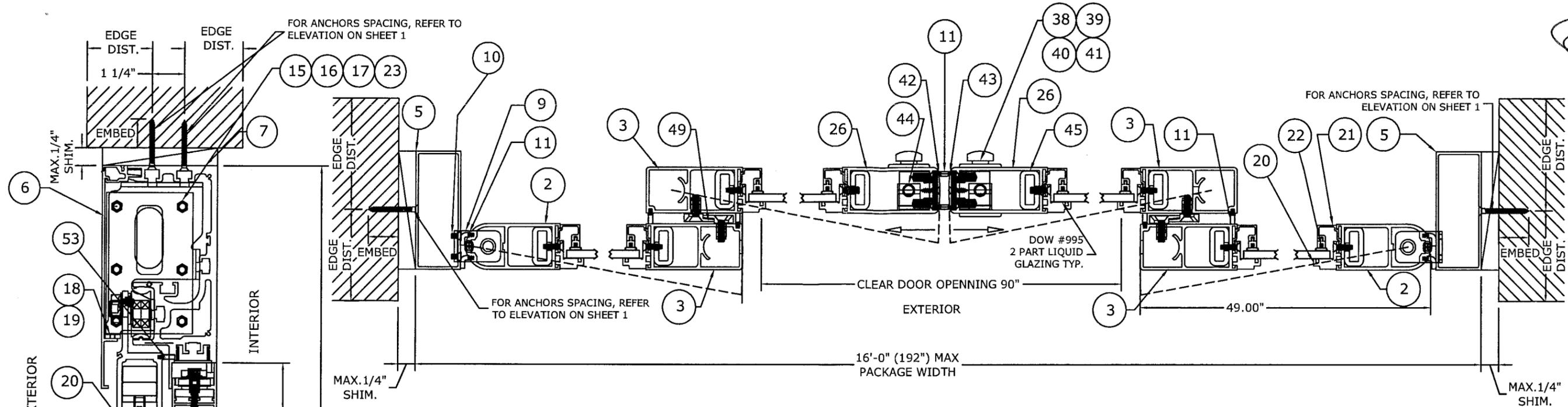
2 HEAD CLUSTER
1 N.T.S. PLAN VIEW



3 SILL CLUSTER
1 N.T.S. PLAN VIEW

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08/10/2009 - 12:50pm rbarlett F:\01 Project Files\Dorma Automatics (DOA)\200505-DOA-0004 "ESA300" Full Breakout Auto Sliding Door, LMI (NOA)\05-DOA-0004_02b ESA 300 LMI (NOA) - Copy.dwg



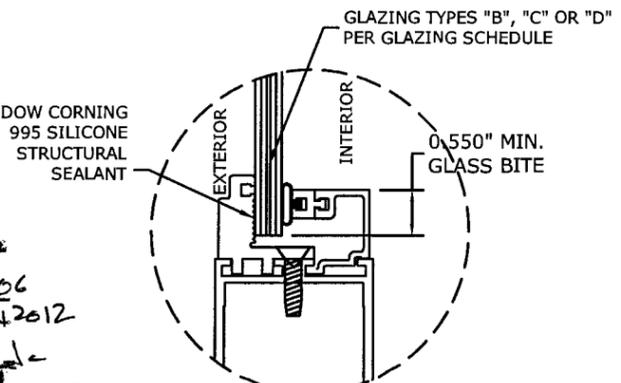
3 **TYPICAL HORIZONTAL SECTION**
2 **SO-SX-SX-SO (CONFIGURATION)**
 N.T.S. HORIZ. SECTION

ANCHOR SCHEDULE:

- 1/4" ITW TAPCONS WITH 1 3/4" MIN. EMBED. INTO MIN. 3000 PSI CONCRETE.
- 1/4" GRADE 5 METAL SCREWS TO A36 STEEL OR MIN. 6063-T5 ALUM. ALLOY (1/8" MIN. THICK)
- 1/4" GRADE 5 METAL SCREWS WITH 1 1/2" MIN. THREAD PENETRATION TO WOOD, 1" MIN. EDGE DISTANCE (FOR 2X WOOD BUCK ONLY)

ANCHOR NOTES:

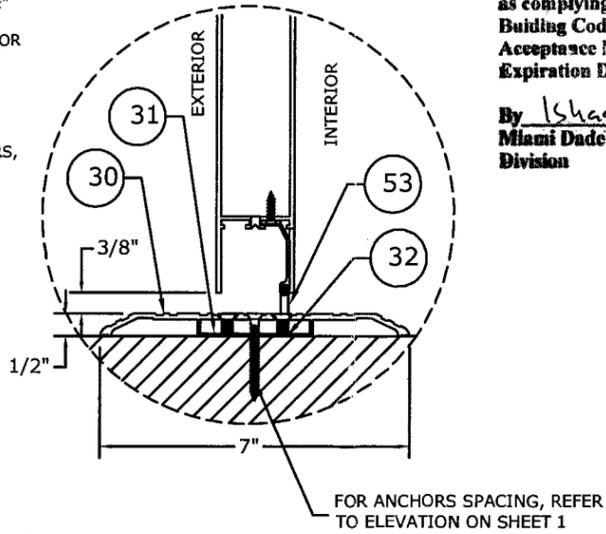
1. SEE EXTERIOR ELEVATION FOR ANCHOR LOCATIONS AND/OR SPACING.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE. EDGE DISTANCE OF 1/2" IS ACCEPTABLE FOR ANCHORS TO STEEL OR ALUMINUM.
4. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
5. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
6. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.



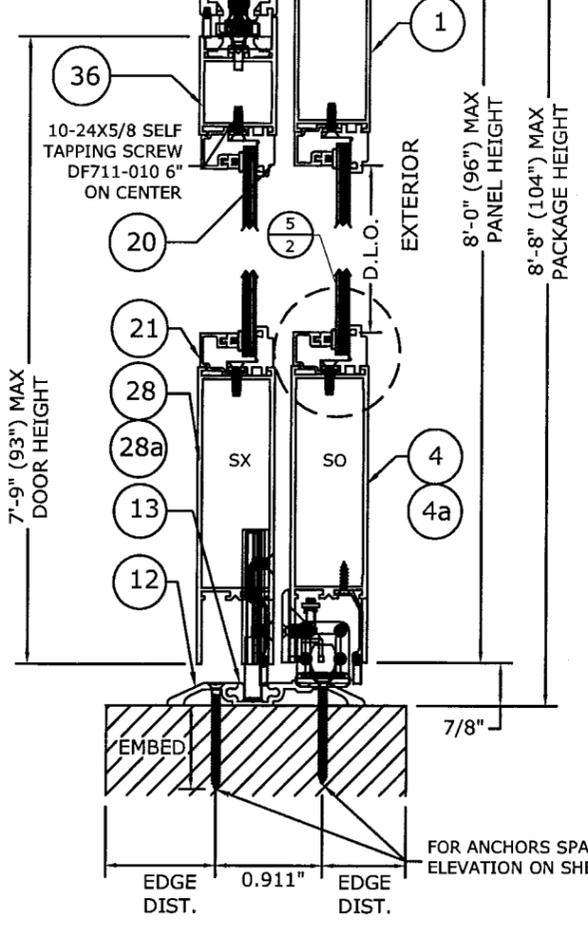
5 **GLAZING DETAIL**
2 N.T.S. DETAIL

GLAZING SCHEDULE:

- Ⓑ 1/4" HS - 0.045 DUPONT BUTACITE PVB INTERLAYER - 0.007" DUPONT ABRASION-RESISTANT POLYESTER
- Ⓒ 1/8" HS - 0.075 SOLUTIA VANCEVA INTERLAYER - 1/8" HS
- Ⓓ 1/4" HS - 0.075 SOLUTIA VANCEVA INTERLAYER - 1/4" HS



4 **BI-PART THRESHOLD**
2 N.T.S. VERT. SECTION



2 **TYPICAL VERTICAL SECTION**
2 **(SHOWN IN OPEN POSITION)**
 N.T.S. VERT. SECTION

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 # PE0046549
 08/10/2009
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 WWW.ENGEXP.COM
 CERT OF AUTH #6885
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

DORMA AUTOMATICS
 924 SHERWOOD DRIVE
 LAKE BLUFF, ILLINOIS 60044
 WWW.DORMA-USA.COM
DORMA
 ESA 300 SERIES
 AUTOMATIC SLIDING GLASS DOORS
 (LARGE MISSILE IMPACT RESISTANT)

| DRWN | CHKD | DATE |
|------|------|----------|
| AML | CL | 05/09/06 |
| AML | CL | 11/06/06 |
| RKB | CL | 01/16/08 |

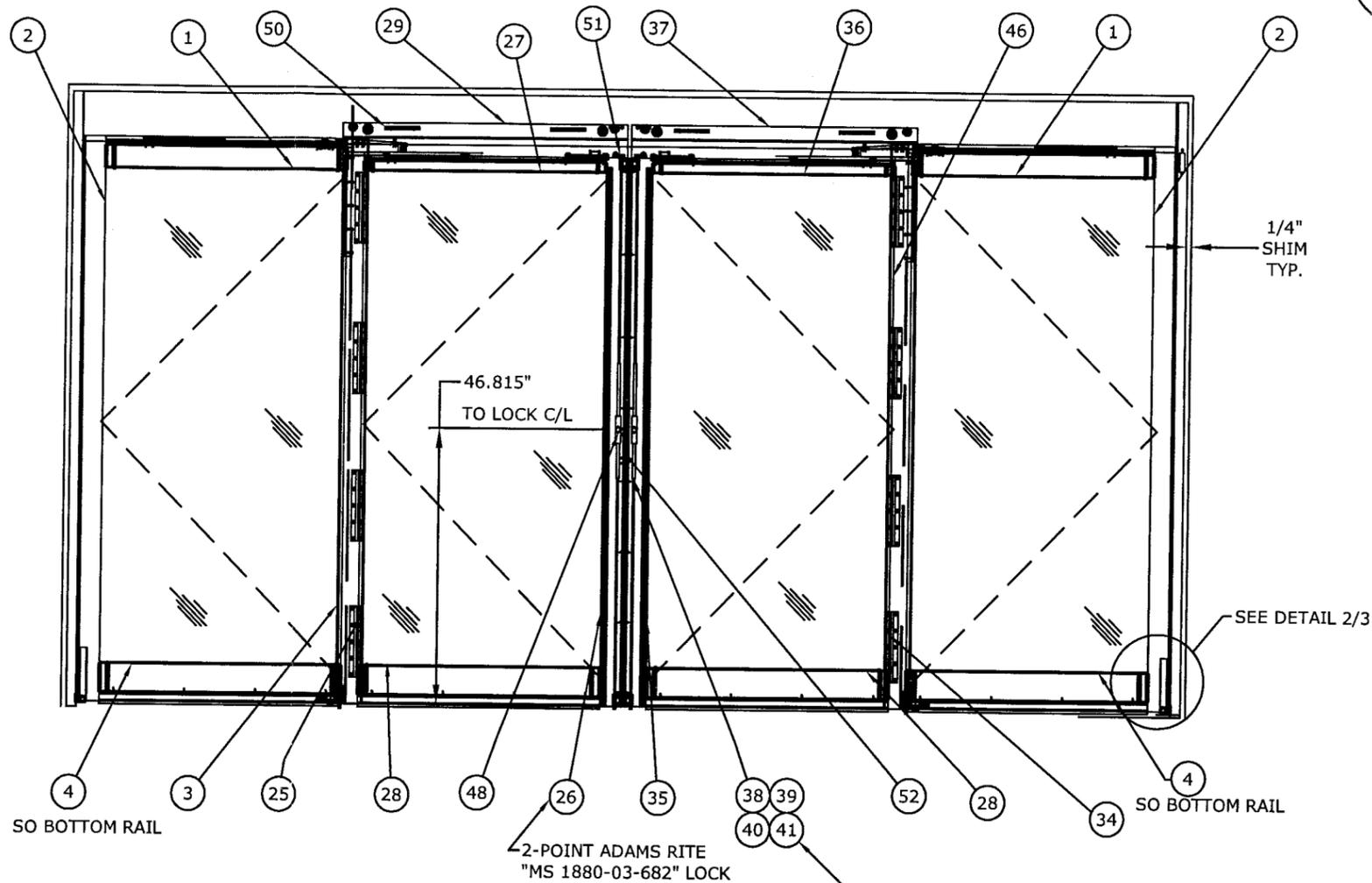
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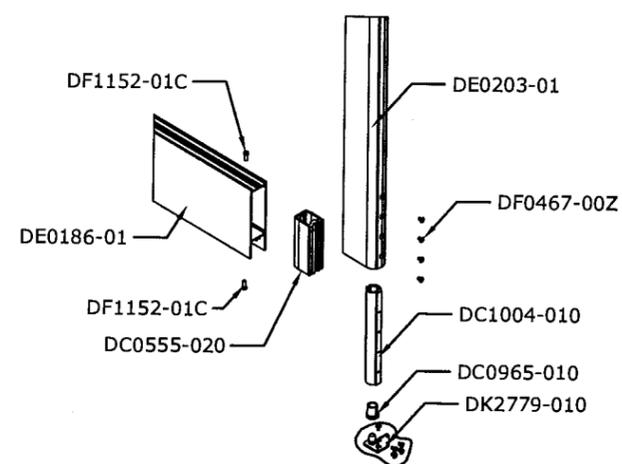
BILL OF MATERIALS

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------|---|-----|
| 1 | DE0199-03 | SO TOP RAIL ASSEMBLY ESA300 | 2 |
| 2 | DE0203-01 | SO PIVOT ASSEMBLY ESA300 | 2 |
| 3 | DE0202-01 | SO INTERLOCK / PIVOT RAIL ASSEMBLY ESA300 | 2 |
| 4 | DE0186-01 | SO BOTTOM RAIL ASSEMBLY ESA300 | 2 |
| 4a | DE0187-02 | 9 1/4" ALTERNATE O BOTTOM RAIL PANEL | 2 |
| 5 | DE0200-01 | JAMB DOUBLE POCKET | 1 |
| 6 | DE0158-03 | HEADER FACEPLATE | 1 |
| 7 | DE0155-04 | HEADER ASSEMBLY (REGULAR) | 1 |
| 8 | DE0159-02 | HEADER ADAPTER | 1 |
| 9 | DS1979-010 | SO BTM PIVOT ASSEMBLY | 2 |
| 10 | DF0628-00G | 10-24X3/4 PHILPS FL CS.SS | 8 |
| 11 | DE2212-020 | WEATHERSTRIP "13.4mm" | 16 |
| 12 | DE0195-010 | BOTTOM TRACK | 1 |
| 13 | DE0234-010 | TRACK CAP | 1 |
| 14 | DC2185-010 | SIDE CARRIER | 2 |
| 15 | DC1498-010 | HEADER BACK BLOCK | 2 |
| 16 | DF0728-01Z | 1/4-20X1" HX-HD MS GR5 ZINC | 10 |
| 17 | DF0939-01Z | A6.4(M6) SPRING WASHER ZINC | 10 |
| 18 | DC0831-010 | COVER HOLDING BAR | 1 |
| 19 | DF0999-01Z | 10-24X3/4" PH FL HD UNC ZINC | 4 |
| 20 | DE1767-010 | GLASS STOP EXT. | 1 |
| 21 | DE0210-010 | GLASS STOP 1/4" SNAP | 1 |
| 22 | DE0148-020 | GLAZING BEAD CO-EXTRUSION | 1 |
| 23 | DF0385-010 | RIVET NUT 1/4-20 SF UNC IFC STEEL | 10 |
| 26 | DE0201-02 | VERTICAL LOCK RAIL | 1 |
| 27 | DS1727-010 | SX TOP RAIL ASSEMBLY ESA300 | 1 |
| 28 | DE0188-01 | SX BOTTOM RAIL ASSEMBLY ESA300 | 2 |
| 28a | DE0187-02 | 9 1/4" ALTERNATE SX BOTTOM RAIL ASSEMBLY | 2 |
| 29 | DS1724-010 | CARRIER ASSEMBLY | 1 |
| 30 | DE0246-01A | THRESHOLD BI-PART (MACHINED) | 1 |
| 31 | DC0837-010 | BOTTOM PLATE | 1 |
| 32 | DF0848-01Z | 1/4-20X1/2 FL HD SOC SC ZINC | 4 |
| 34 | DS1831-010 | SX PIVOT ASSEMBLY ESA300 | 1 |
| 36 | DE0162-020 | SX TOP RAIL ASSEMBLY ESA300 | 1 |
| 37 | DS1833-010 | CARRIER ASSEMBLY | 1 |
| 38 | DC0572-00A | LOCK CYLINDER RING CLEAR/DC0572-00B | 1 |
| 39 | DC0571-00A | KEY LOCK CYLINDER -CLEAR/ DC0571-00B | 1 |
| 40 | DC0621-00A | THUMB KEY-CLEAR/ DC0621-00B-DARK BRONZE | 1 |
| 41 | DC2057-010 | 3 POINTS CONVERTER ADAMS RITE P/N "MS 4016-20-02" | 1 |
| 42 | DC1766-010 | ASTRAGAL- L.H | 1 |
| 43 | DC1701-010 | ASTRAGAL- R.H | 1 |
| 44 | DC1497-010 | LATCH BLOCK | 4 |
| 45 | DC1700-010 | PUSH BAR | 2 |
| 46 | DS1827-010 | SO-INTERLOCK RAIL ASSEMBLY | 1 |
| 48 | DC2055-010 | 2 WAY BOLT ADAMS RITE P/N "MS 1880-03-682" | 1 |
| 49 | DC0836-010 | BREAKOUT INTERLOCK CLIP | 4 |
| 50 | DC0838-010 | ANTI-DERAIL BLOCK | 4 |
| 51 | DC1978-01Z | BREAKOUT STOP | 2 |
| 52 | DC2492-01Z | CATCH PLATE | 1 |
| 53 | DE0152-120 | BRUSH | 1 |



1 EXTERIOR ELEVATION
3 N.T.S. ELEV.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0415.06
Expiration Date FEB 04 2012
By Frank L. Bennardo
Miami Dade Product Council
Division



2 CORNER DETAIL
3 N.T.S. ELEV.

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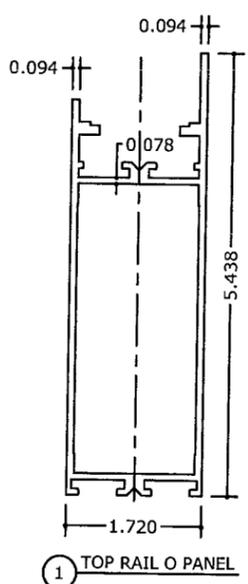
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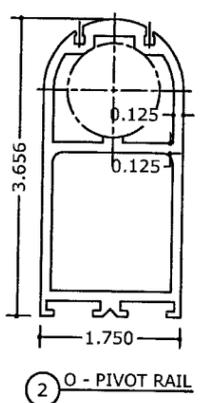
05-DOA-0004
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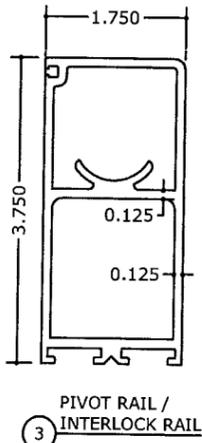
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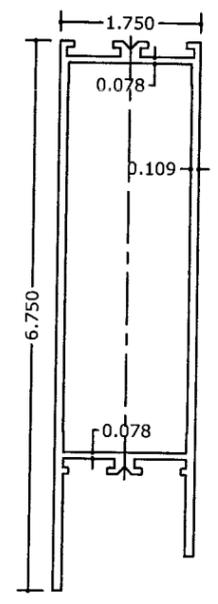
1 TOP RAIL O PANEL



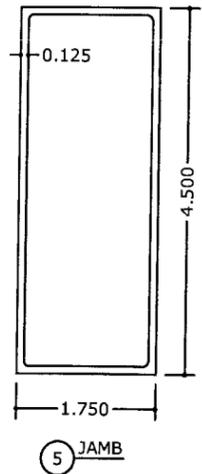
2 O - PIVOT RAIL



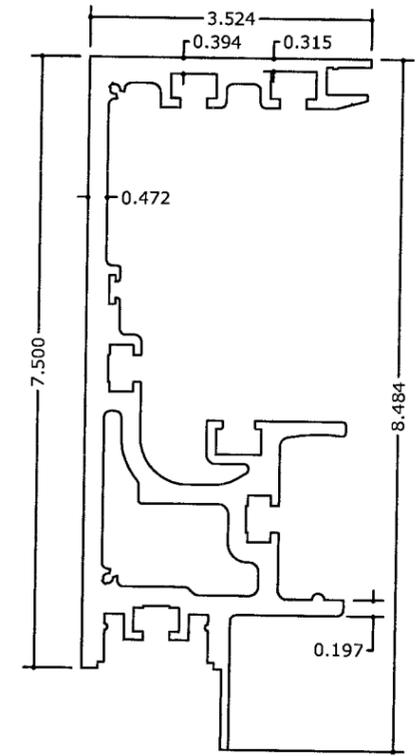
3 PIVOT RAIL / INTERLOCK RAIL



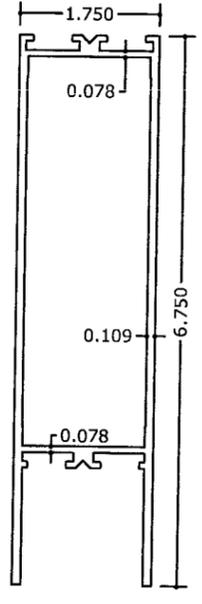
4 BOTTOM RAIL O PANEL



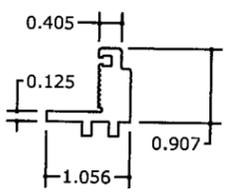
5 JAMB



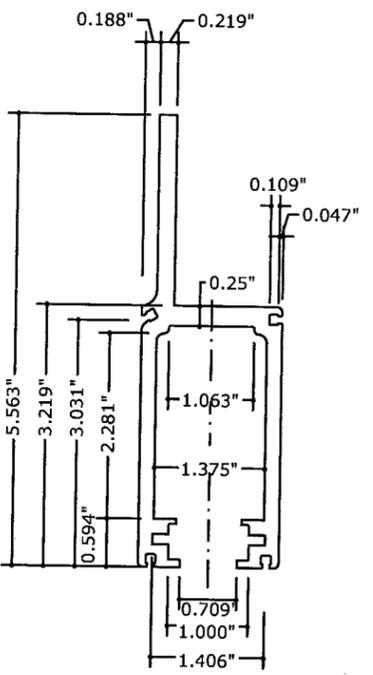
7 HEADER



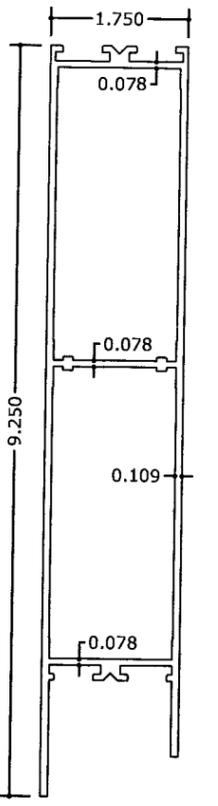
28 BOTTOM RAIL SX PANEL



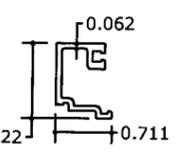
20 SECURITY GLASS TOP



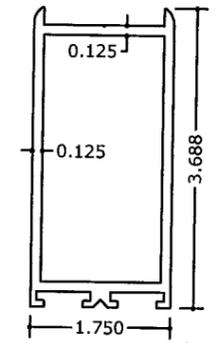
14 SIDE CARRIER



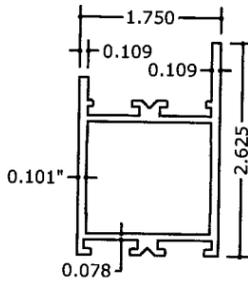
4a ALT 9/4" BOTTOM RAIL O PANEL



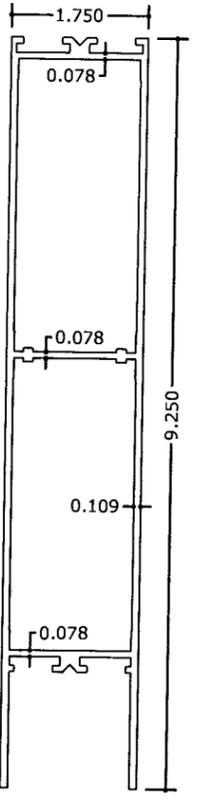
21 GLASS STOP 1/4" SNAP



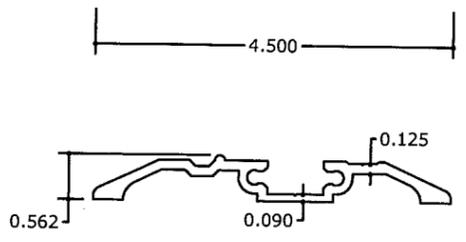
26 VERTICAL LOCK RAIL



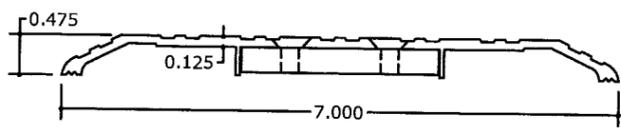
36 TOP RAIL SX PANEL



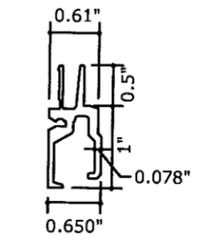
28a ALT 9/4" BOTTOM RAIL SX PANEL



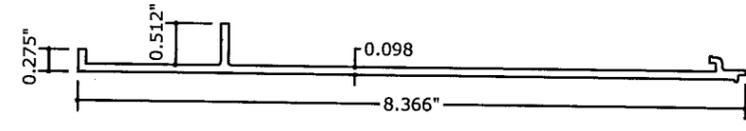
12 BOTTOM GUIDE OSX TRACK



30 BI-PART THRESHOLD



8 HEADER ADAPTER



6 HEADER FACEPLATE

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 09-0415-06
 Expiration Date FEB 01, 2012
 By Isaac J. Chanok
 Miami Dade Product Control
 Division

FRANK L. BENNARDO, P.E.
 # PE0046549

08/10/2009

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