



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.buildingcodeonline.com

**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 200 Aluminum Automatic Sliding Glass Door -NI**

**APPROVAL DOCUMENT:** Drawing No. **05-DOA-0001**, titled "ESA 200 Series Automatic Sliding Glass Doors (Non-Impact)", sheets 1 through 4 of 4, prepared by manufacturer, dated 05/09/06, and last revised on 11/02/06, 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: None**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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

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

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

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

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon  
12/19/06

NOA No 06-0518.01  
Expiration Date: January 11, 2012  
Approval Date: January 11, 2007  
Page 1

**Dorma Automatics, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **05-DOA-0001**, titled "ESA 200 Series Automatic Sliding Glass Doors (Non-Impact)", sheets 1 through 4 of 4, prepared by manufacturer, dated 05/09/06, and last revised on 11/02/06, 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) 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-0357-0326-05**, dated 08/29/05-09/20/05, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS**

1. Anchor verification calculation dated 04/28/06, complying w/ FBC 2004, prepared by Frank L. Bennardo, P.E., Inc., signed and sealed by Dr. Humayoun Farooq, P.E.
2. Glazing complies with ASTM E-1300-98.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None

**F. STATEMENTS**

1. Statement letter of compliance w/FBC-2004 and no financial interest, signed by Frank L. Bernnardo, P.E.

**G. OTHER**

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



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**Jaime D. Gascon, P. E.**  
**Chief, Product Control Division**  
**NOA No 06-0518.01**  
**Expiration Date: January 11, 2012**  
**Approval Date: January 11, 2007**

# ESA 200 AUTOMATIC SLIDING GLASS DOOR

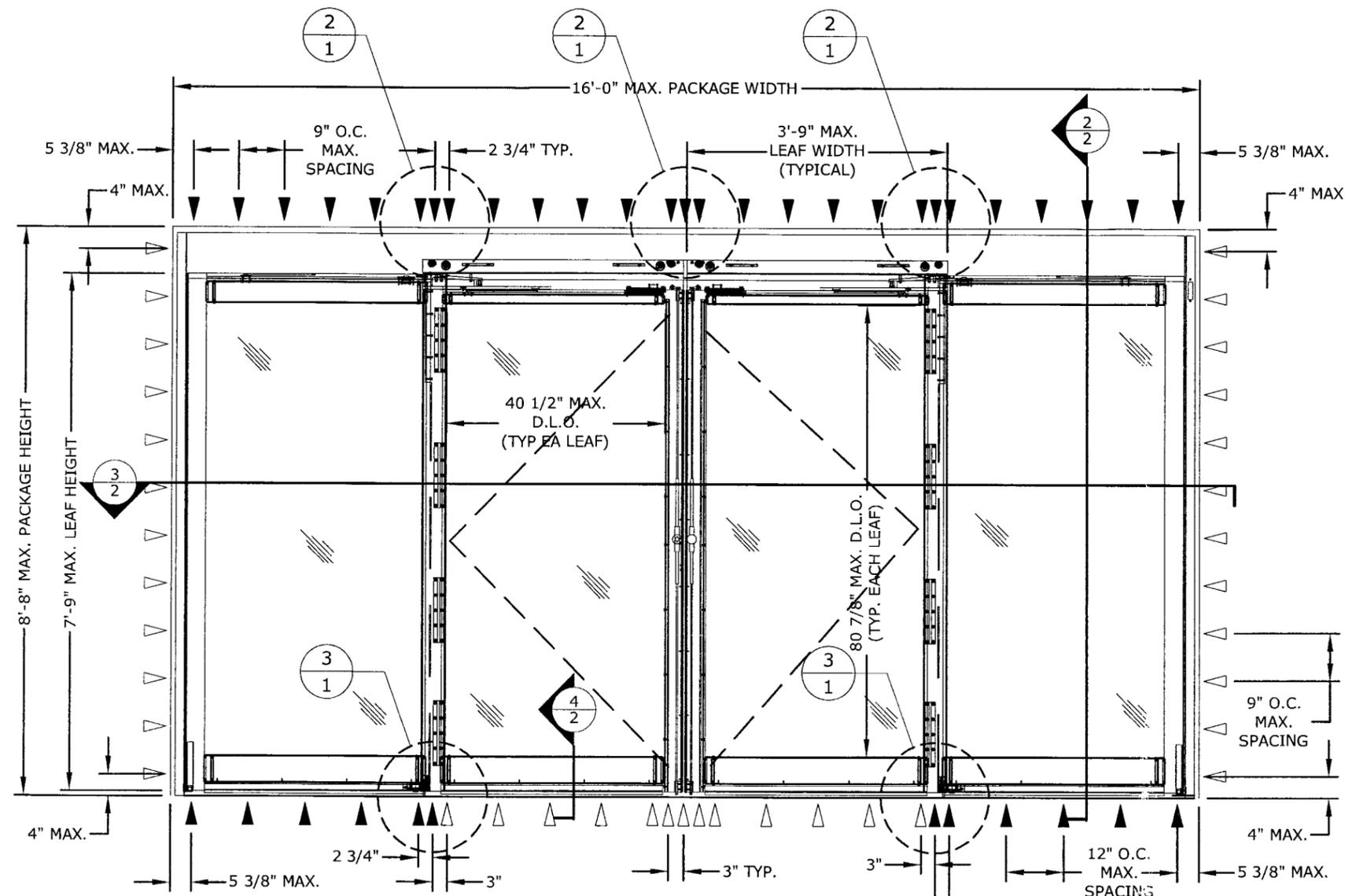
## NON-IMPACT RESISTANT - PARTIAL BREAKOUT

FRANK L. BENNARDO, P.E.  
#PE0046549

11/28/2006

**FRANK L. BENNARDO, P.E., INC.**  
CONSULTING ENGINEERS  
160 SW 12th AVENUE, #106  
DEERFIELD BEACH, FL 33442  
PH: (954) 354-0660 FAX: (954) 354-0443  
CERTIFICATE OF AUTHORIZATION: #9885

Creators Of  
**ENGINEERING EXPRESS**  
WWW.ENGEXP.COM



**EXTERIOR ELEVATION**  
**1 0-SX-SX-0 (CONFIGURATION)**  
1 N.T.S. ELEV.

DESIGN PRESSURE RATING			
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED.	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED.	
GLAZING TYPES	"A", "B" OR "C" *	"A" OR "B" *	"C" *
POSITIVE	NOT APPROVED	+ 55.0 PSF	+ 52.4 PSF
NEGATIVE	NOT APPROVED	- 55.0 PSF	- 52.4 PSF

\* SEE GLAZING SCHEDULE ON SHEET "2"

### GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED & DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE - HIGH VELOCITY HURRICANE ZONE (HVHZ) - AND HVHZ TEST PROTOCOL TAS 202 AS A NON-IMPACT RESISTANT SYSTEM.
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 & 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.
4. 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.
5. 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.
6. THE PRODUCT DETAILED HEREIN HAS BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS & LOADS SHOWN ON THESE DRAWINGS.
7. ALL ALUMINUM EXTRUSIONS ARE 6063-T5 OR 6063-T6 ALUMINUM.
8. ALL UNITS SHALL BE INSTALLED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS WHERE REQUIRED.
9. ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, SPACED AS NOTED HEREIN. ANCHOR EMBEDMENT TO BASE MATERIAL DOES NOT INCLUDE WALL DRESSING OR STUCCO.
10. ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED, OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, EXCEPT INSTALLATION ANCHORS.
11. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR COATED.
12. STRUCTURAL SILICONE ADHESIVE IS APPLIED ATOP OF HEADER, JAMBS, AND BELOW SIDE GUIDE, SPACER, AND THRESHOLDS.

**DORMA AUTOMATICS**  
924 SHERWOOD DRIVE  
LAKE BLUFF, ILLINOIS 60044  
WWW.DORMA-USA.COM



ESA 200 SERIES  
AUTOMATIC SLIDING GLASS DOORS  
(NON-IMPACT)

DRWN	CHKD	DATE
AML	CL	5/9/06
	CL	11/2/06

REMARKS  
INIT ISSUE  
COUNTY COMMENTS

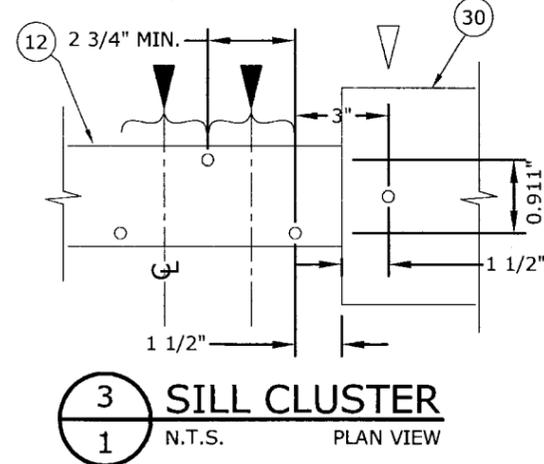
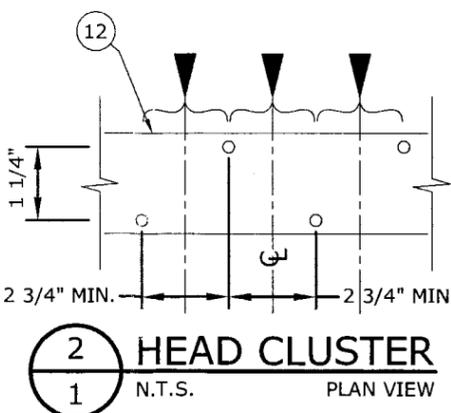
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PAGE DESCRIPTION:

Approved as complying with the Florida Building Code  
Date 01/11/07  
NOA# 06-0518.01  
Miami Dade Product Control  
Division  
By *[Signature]*

1

### ANCHOR LEGEND:

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



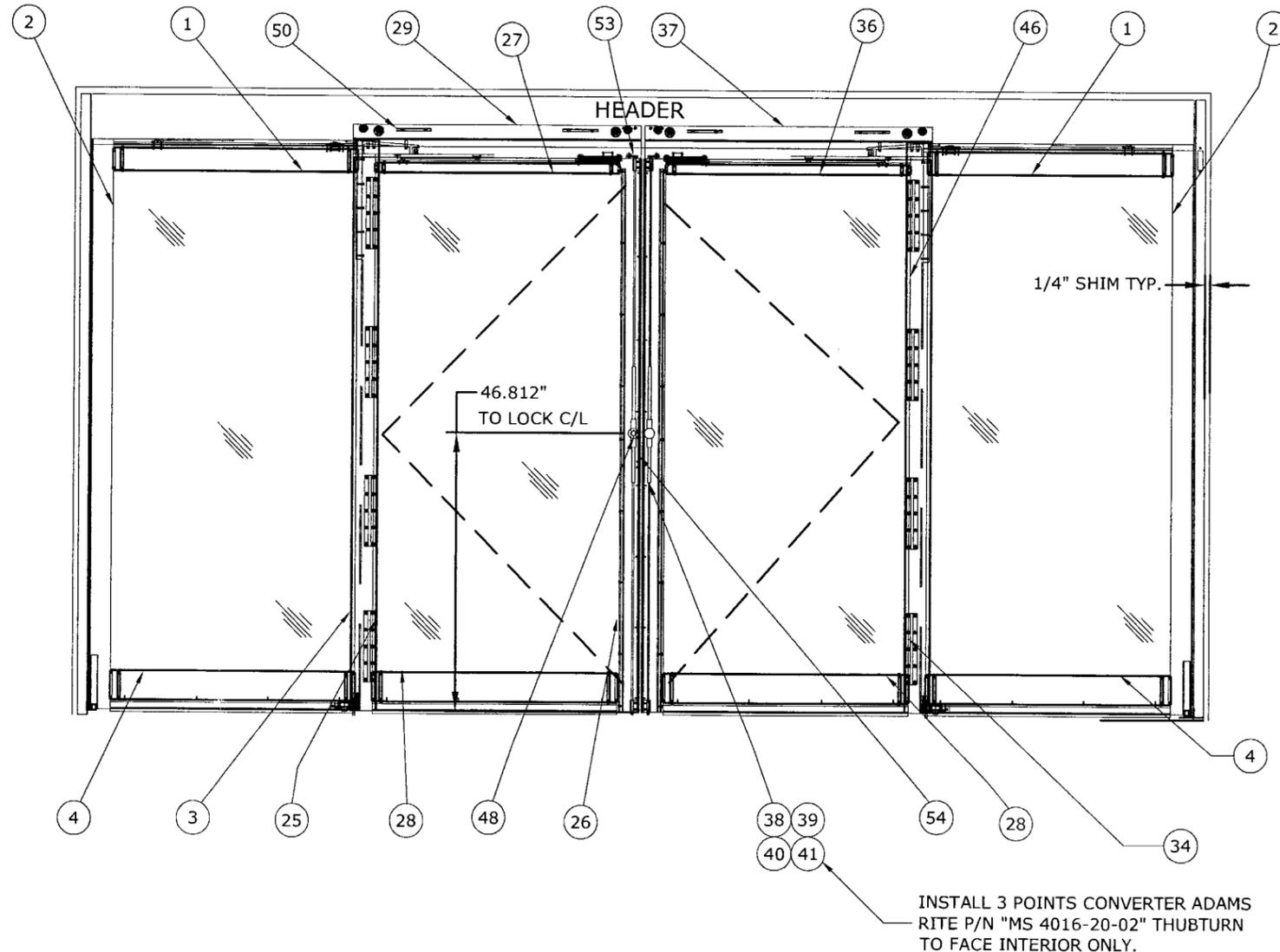
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# BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	MATERIAL	QUANT
1	DE0163-01	O TOP RAIL PANEL		2
2	DE0203-01	O PIVOT RAIL		2
3	DE0202-01	O INTERLOCK RAIL		2
4	DE0186-01	O BOTTOM RAIL PANEL		2
5	DE0200-01	JAMB DOUBLE POCKET		1
6	DE0158-03	HEADER FACEPLATE		1
7	DE0155-04	HEADER		1
8	DE0159-02	HEADER ADAPTER		1
9	DS1894-010	O-SX BOTTOM GUIDE BRACKET PIVOT ASSEMBLY		1
10	DS1893-010	SX-O BOTTOM GUIDE BRACKET PIVOT ASSEMBLY		1
11	DE2212-020	WEATHERSTRIP "13.4mm"		16
12	DE0166-020	BOTTOM GUIDE TRACK		1
13	DF0394-01A	1/4-20X1/2 UNC PHILIPS FLAT MS CLEAR		8
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				
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
24	DE0206-010	JAMB DOUBLE POCKET FILLER		1
25	DE0215-01	SX PIVOT RAIL		1
26	DE0201-02	VERTICAL LOCK RAIL		2
27	DS1736-010	SX TOP RAIL ASSEMBLY		1
28	DE0188-01	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
33				
34	DS1735-010	SX PIVOT ASSEMBLY		1
35				
36	DE0162-02	SX TOP RAIL PANEL		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	DS1730-010	O-INTERLOCK RAIL ASSEMBLY		1
47				
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	DC0958-010	SX BOTTOM GUIDE ROLLER WHEEL		2
52	DF1248-010	M6X20 BUTTON CAP SCREW		2
53	DC1978-01Z	BREAKOUT STOP		2
54	DC2492-01Z	CATCH PLATE		1



**6** EXTERIOR ELEVATION  
**1** N.T.S. ELEV.

Approved as complying with the Florida Building Code  
 Date 01/11/07  
 NOAH 06-0518-01  
 Miami Dade Product Control  
 Division  
 By [Signature]

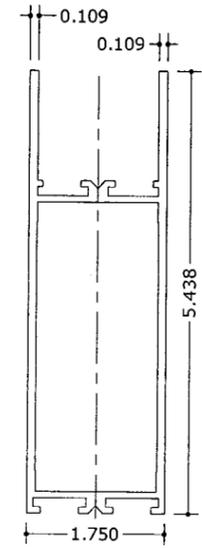
FRANK L. BENNARDO, P.E.  
 # PE0046549  
 11/28/2006  
 FRANK L. BENNARDO, P.E., INC.  
 CONSULTING ENGINEERS  
 160 SW 12th AVENUE, #10642  
 DEERFIELD BEACH, FL 33442  
 PH: (954) 354-0560 FAX: (954) 354-0443  
 CERTIFICATE OF AUTHORIZATION: #9885  
 ENGINEERING EXPRESS  
 WWW.ENGGEXP.COM

**DORMA AUTOMATICS**  
 924 SHERWOOD DRIVE  
 LAKE BLUFF, ILLINOIS 60044  
 WWW.DORMA-USA.COM  
 ESA 200 SERIES  
 AUTOMATIC SLIDING GLASS DOORS  
 (NON-IMPACT)

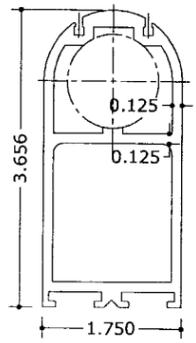
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INIT ISSUE	
COUNTY COMMENTS	

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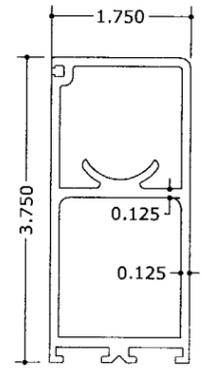
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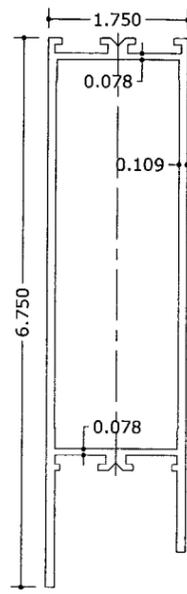
1 TOP RAIL O PANEL



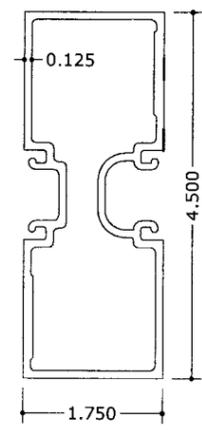
2 O - PIVOT RAIL



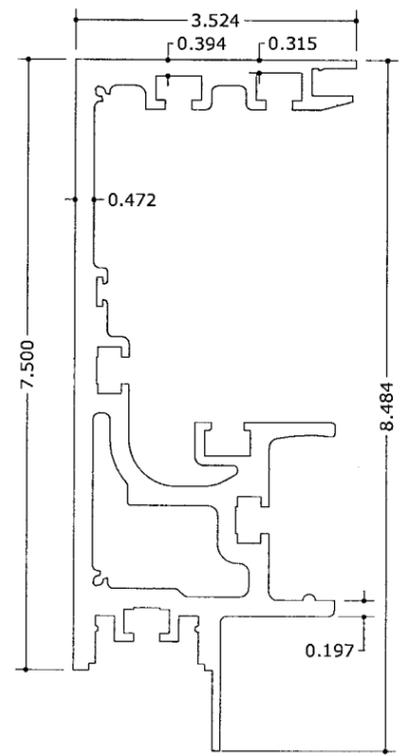
3 INTERLOCK RAIL



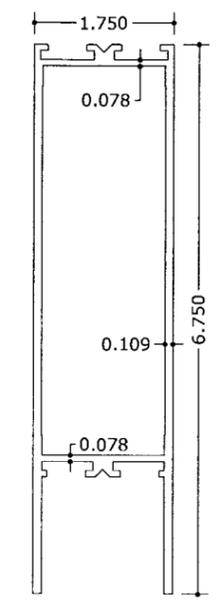
4 BOTTOM RAIL O PANEL



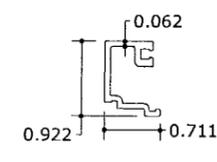
5 JAMB



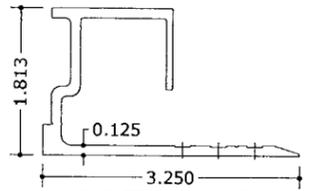
7 HEADER



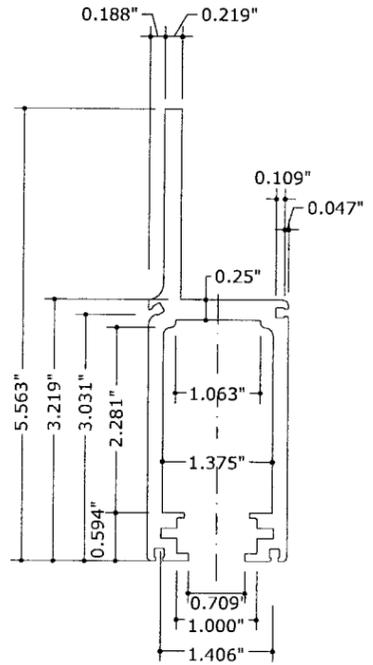
28 BOTTOM RAIL SX PANEL



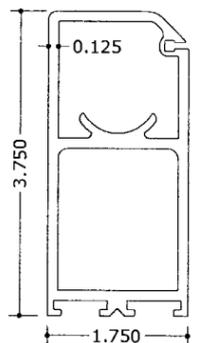
21 GLASS STOP 1/4" SNAP



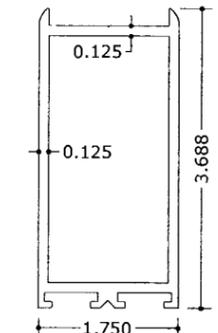
12 BOTTOM GUIDE OSX TRACK



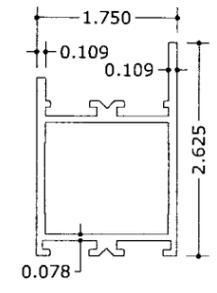
14 SIDE CARRIER



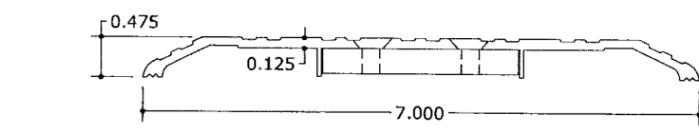
25 SX PIVOT RAIL



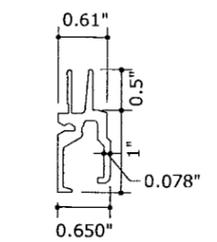
26 VERTICAL LOCK RAIL



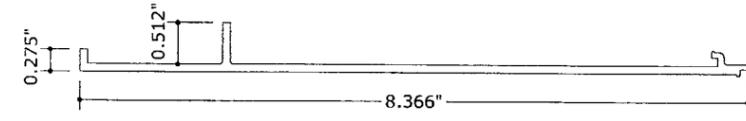
36 TOP RAIL SX PANEL



30 BI-PART THRESHOLD



8 HEADER ADAPTER



6 HEADER FACEPLATE

FRANK L. BENNARDO, P.E.  
# PE0046549

11/28/2006

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160 SW 12th AVENUE, #106  
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CERTIFICATE OF AUTHORIZATION: #9885



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ESA 200 SERIES  
AUTOMATIC SLIDING GLASS DOORS  
(NON-IMPACT)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	AVL	CL	5/9/06
COUNTY COMMENTS		CL	11/2/06

05-DOA-0001

SCALE: N.T.S. 01

PAGE DESCRIPTION:

Approved as complying with the  
Florida Building Code  
Date 01/11/07  
NOA# 06-0518.0  
Manual Drive System Control  
Division  
By *[Signature]*