



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)**

**Solar Innovations Inc.**  
234 E. Rosebud Road  
Myerstown, PA 17067

**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION:** Series "5000 ST" Aluminum Infolding Doors

**APPROVAL DOCUMENT:** Drawing No. **FL 00081**, titled "5000 ST In Folding Door", sheets 1 through 7 of 7, prepared by manufacture, dated 02-15-07 and last revised on July 22, 2007, signed and sealed by Luis R. Lomas, 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:** Large and Small Missile Impact

**Limitation:** 1. Not approved where water infiltration requirement is needed  
2. Glazing structural silicone is limited to "GE SILPRUF" silicone sealant.

**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 **Ishaq I. Chanda, P.E.**

12/11/07



NOA No 07-1012.06  
Expiration Date: December 28, 2012  
Approval Date: December 28, 2007  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **FL 00081**, titled "5000 ST In Folding Door", sheets 1 through 7 of 7, prepared by manufacture, dated 02-15-07 and last revised on July 22, 2007, signed and sealed by Luis R. Lomas, 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 (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 drawing and installation diagram of aluminum Inswing /Outswing folding door, prepared by National Certified Testing Laboratories, Inc., No. **NCTL-110-10115-1**, dated 01/03/07, signed and sealed by Robert H. Zeiders, P.E.

(Note: This test report sheets 1 and 2 of 7 have been revised on 12/06/07, signed and sealed by Robert H. Zeiders, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis dated 02-22-07, prepared, signed and sealed by Luis R. Lomas, P.E.
2. Glazing complies w/ ASTM E-1300-02

**D. QUALITY ASSURANCE BY:**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **03-0415.03** issued to Solutia for "Vanceva TM Interlayer", expiring on 12-11-2008.

**F. STATEMENTS**

1. Statement letter dated Dec 11., 2007 issued by Solar Innovation Inc, identifying glazing sealant, signed by Ms. Michele Shockey
2. Addendum letter dated May 10, 2007, issued by National Certified Testing Laboratories
3. Statement letter of conformance and "No financial interest", dated 02/22/07, signed and sealed by Luis R. Lomas, P.E.
4. Laboratory compliance statements, part of the above referenced test reports.

**G. OTHER**

1. None

*Ishaq I. Chanda*  
Ishaq I. Chanda, P.E.

Product Control Examiner  
NOA No 07-1012.06

Expiration Date: December 28, 2012

Approval Date: December 28, 2007

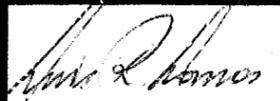
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	6/25/07	R.L.

NOTES:

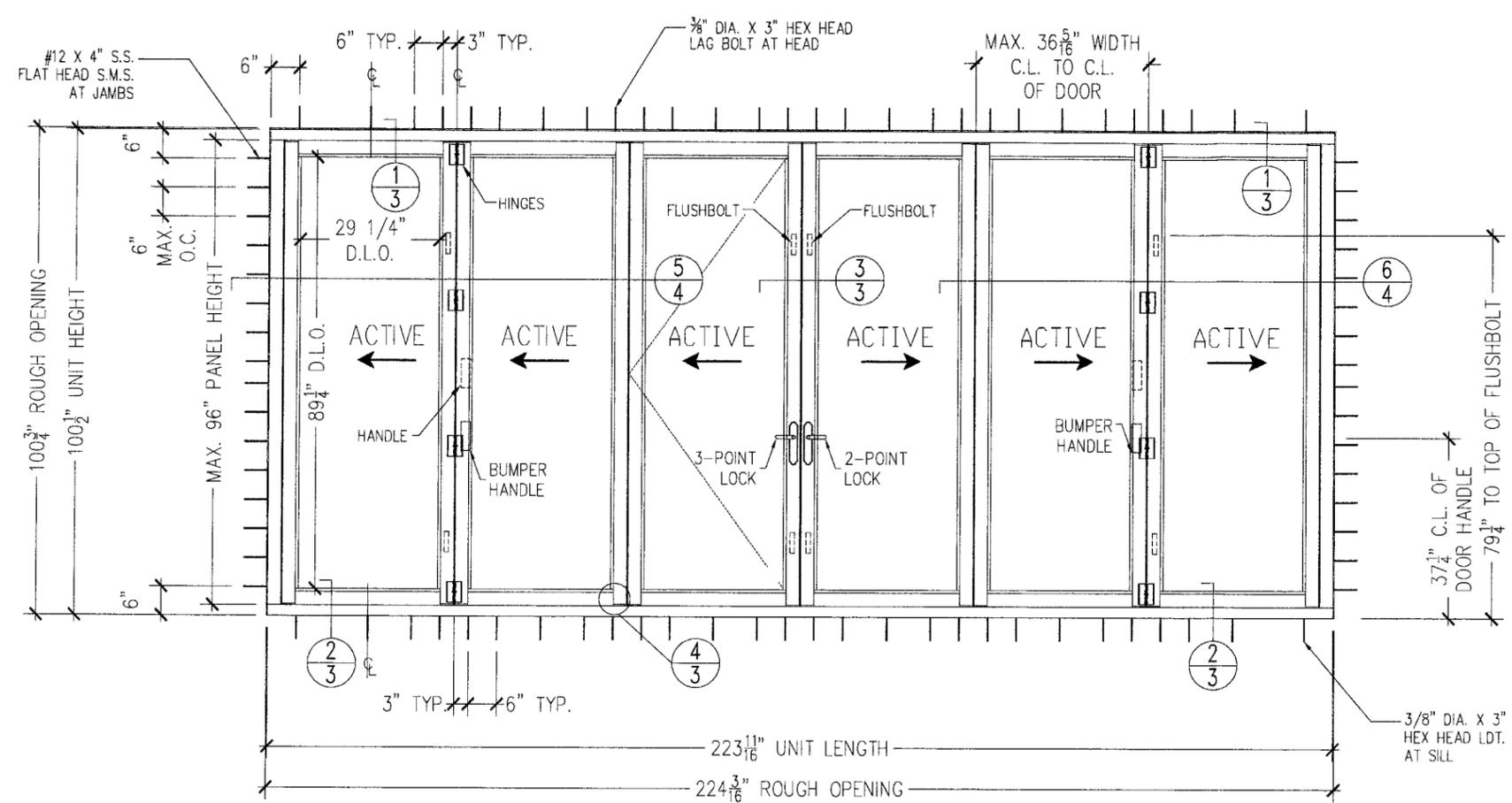
- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2004 FLORIDA BUILDING CODE, INCLUDING THE HVHZ.
- 2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY OF OPENING AND ALL WOOD FRAMING AROUND OPENING
- 4) ALL EXTRUSIONS ARE 6063-T6 ALUMINUM ALLOY, UNLESS OTHERWISE NOTED.
- 5) ALL FASTENERS, NUTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60KSI.
- 6) APPLICABLE TEST REPORT: NCTL 110-10115-1
- 7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS WHERE ARE REQUIRED BY THE CODE.
- 8) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM TO BE 1/4".
- 9) FOR ANCHORING INTO CONCRETE USE 3/8" DIAMETER 3" LONG LDT ANCHORS BY ITW/REDHEAD TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATION DETAILS.
- 10) FOR ANCHORING INTO WOOD FRAMING, AT JAMBS USE #12 SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. AT HEAD AND SILL 3/8" LAG BOLTS OF SUFFICIENT LENGTH TO ACHIEVE A 2 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATION DETAILS.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	PANEL ELEVATION AND ANCHORING
3, 4	INSTALLATION DETAILS
5	INSTALLATION DETAILS AND GLASS DETAILS
6	COMPONENTS
7	B.O.M.

Approved as complying with the  
 Florida Building Code  
 Date DEC 25, 2007  
 NOA# 07-1012-06  
 Miami Dade Product Control  
 Division  
 By Ishaq I. Chandra

<b>SOLAR INNOVATIONS</b> 234 E. ROSEBUD RD MYERSTOWN, PA 17067			 7/25/07
5000 ST IN FOLDING DOOR GENERAL NOTES			
DRAWN:	DWG NO.	REV	Luis R. Lomas P.E. Florida No. 62514
R.L.	FL 00081	A	
SCALE NTS	DATE 2/15/07	SHEET 1 OF 7	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	6/25/07	R.L.



HINGE REQUIREMENTS	
X=FRAME HEIGHT(IN.)	# HINGES REQUIRED
80" < X <= 100 1/2"	4

**FRONT EXTERIOR VIEW**

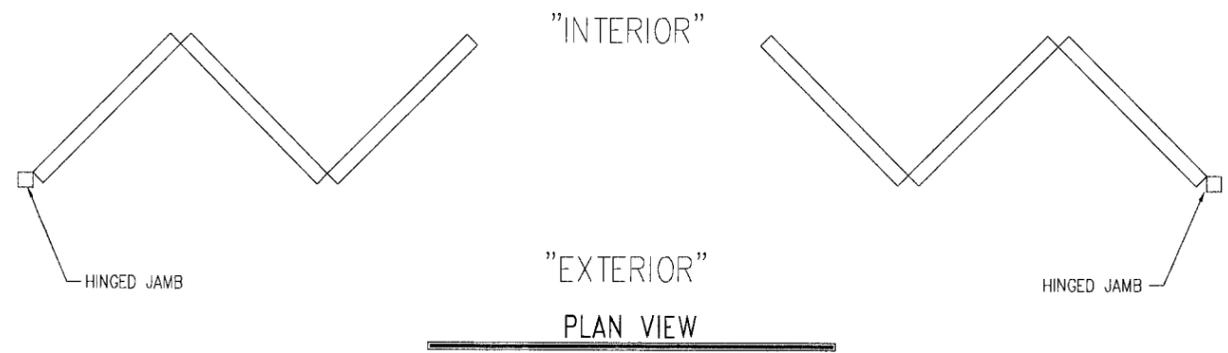
(6) PANELS SHOWN, UNLIMITED NUMBER OF PANELS IS APPLICABLE AS LONG AS INDIVIDUAL PANELS DO NOT EXCEED PANEL SIZE AS SHOWN.

**DESIGN PRESSURE RATING  
±60.0 PSF**

NOT APPROVED WHERE WATER INFILTRATION IS NEEDED

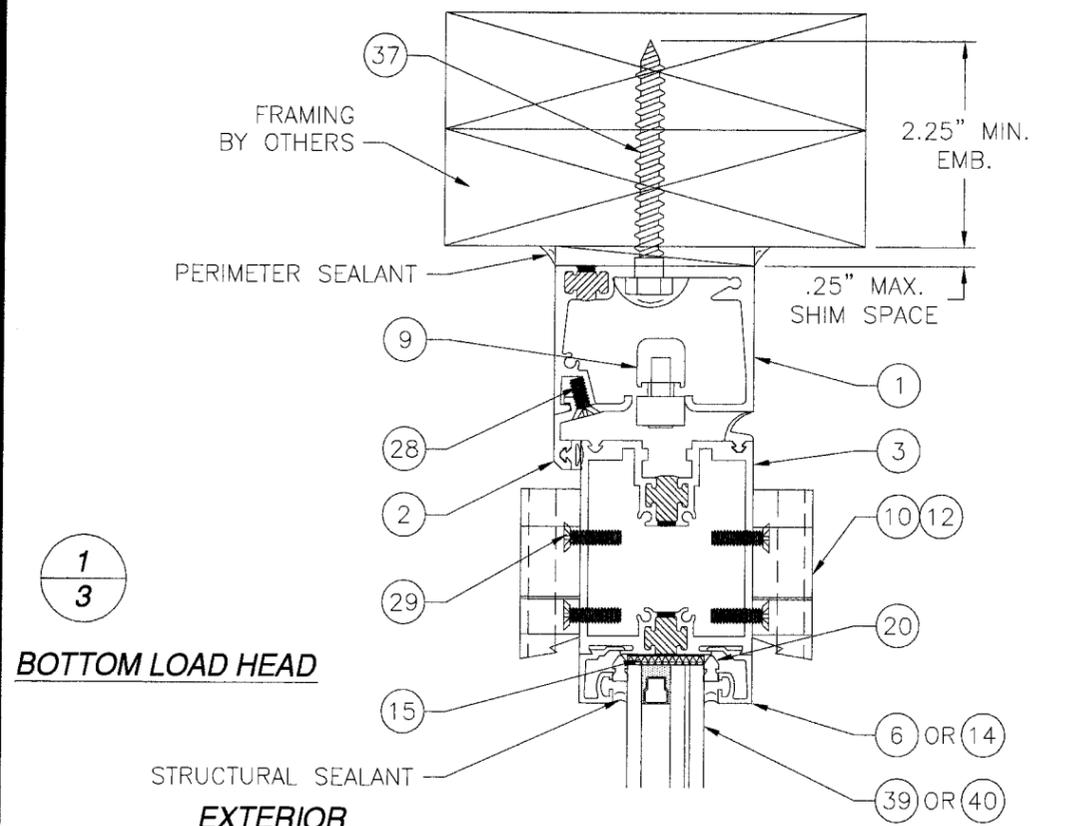
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 Date DEC 28, 2007  
 NOA# 07-1012-06  
 Miami Dade Product Control Division  
 By L. Shag I. Chandel

**LARGE MISSILE IMPACT RESISTANT**



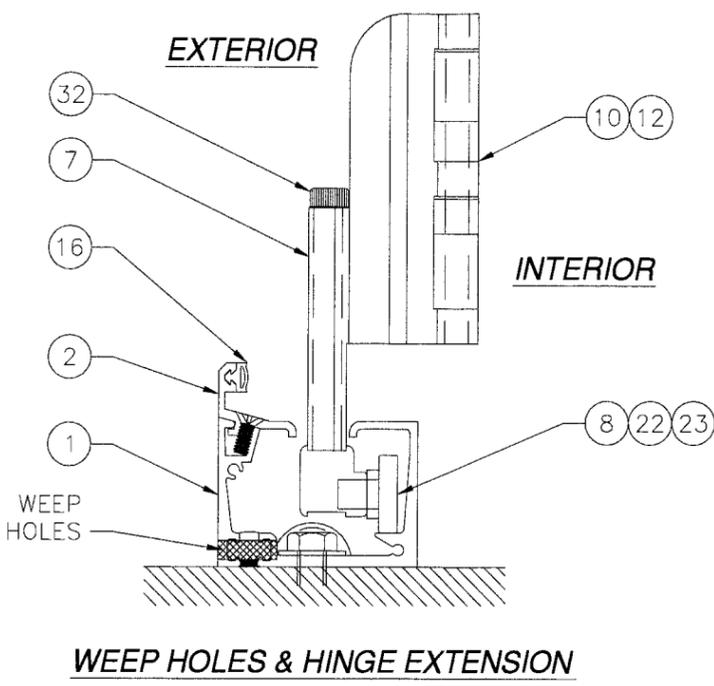
<b>SOLAR INNOVATIONS</b> 234 E. ROSEBUD RD MYERSTOWN, PA 17067			 7/22/07
5000 ST IN FOLDING DOOR PANEL ELEVATION AND ANCHORING			
DRAWN: R.L.	DWG NO. FL 00081	REV A	Luis R. Lomas P.E. Florida No. 62514
SCALE NTS	DATE 2/15/07	SHEET 2 OF 7	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	6/25/07	R.L.

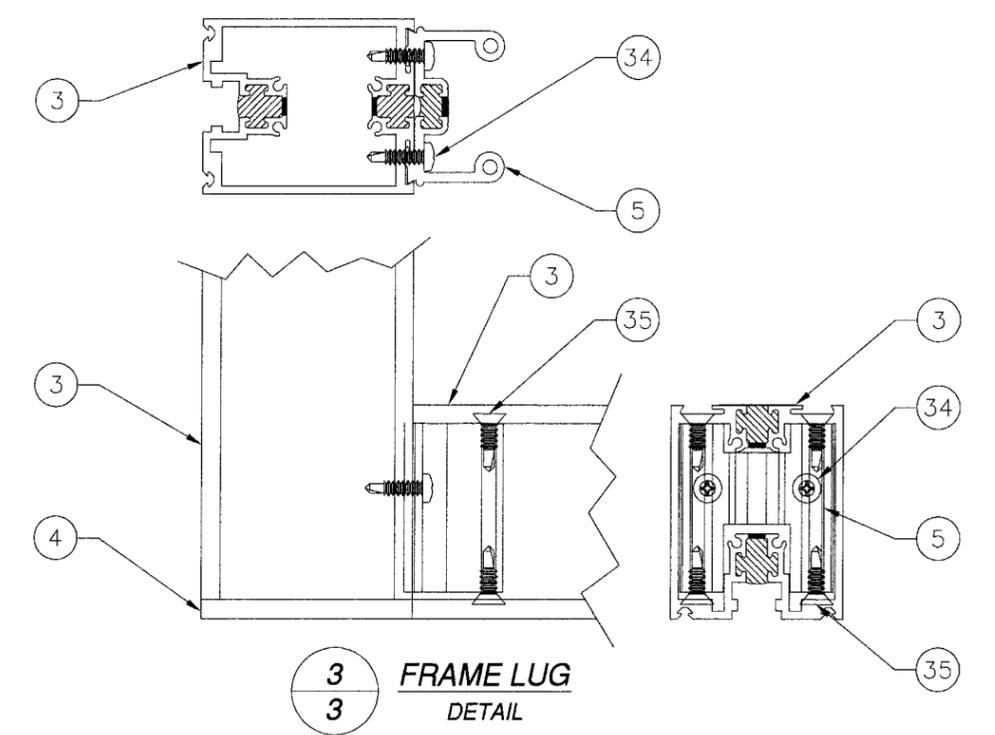


1  
3

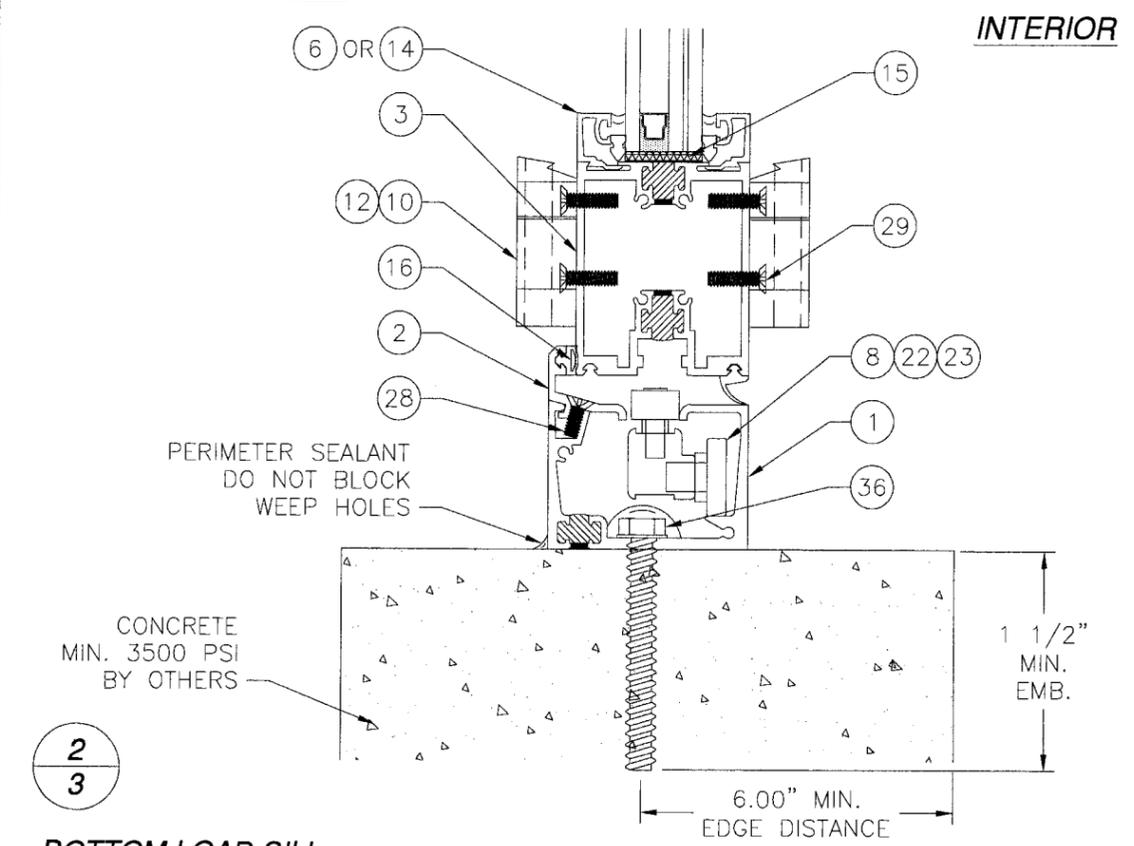
**BOTTOM LOAD HEAD**



**WEEP HOLES & HINGE EXTENSION**

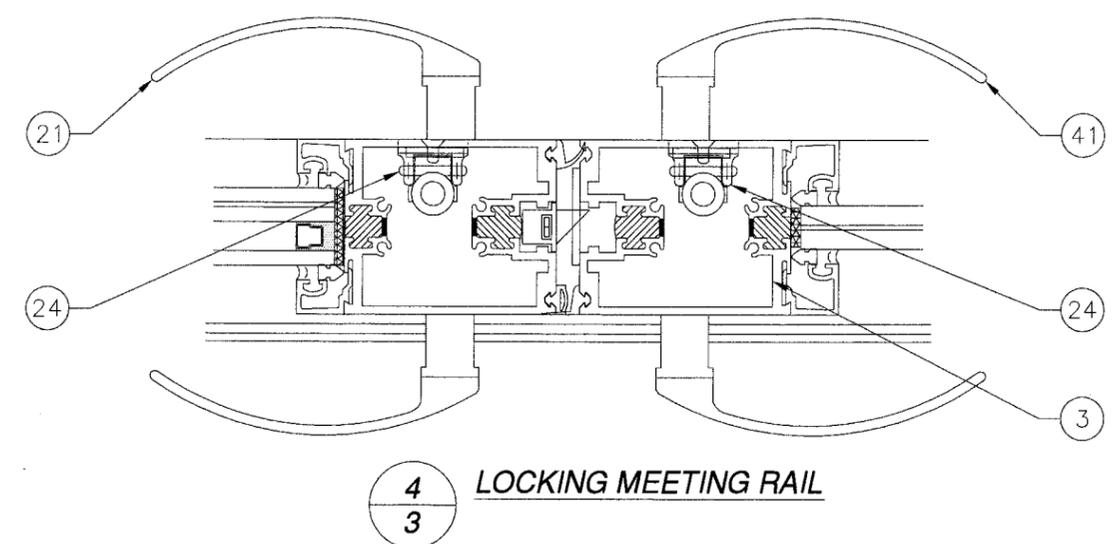


3  
3  
**FRAME LUG  
DETAIL**



2  
3

**BOTTOM LOAD SILL**



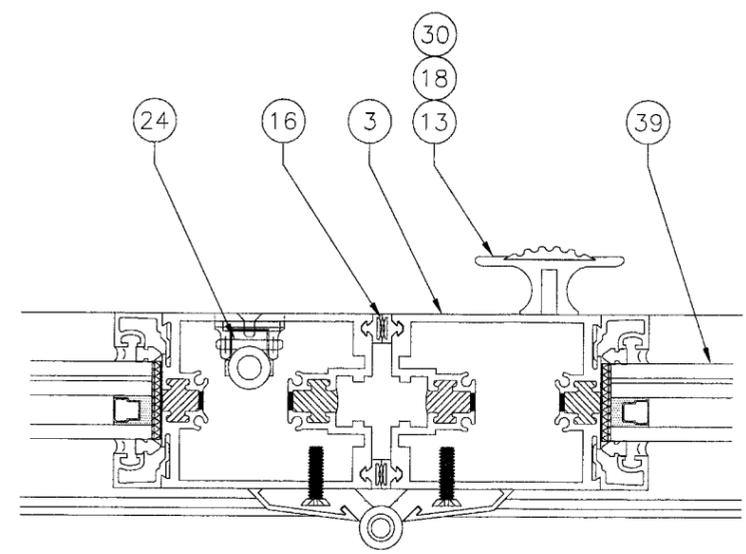
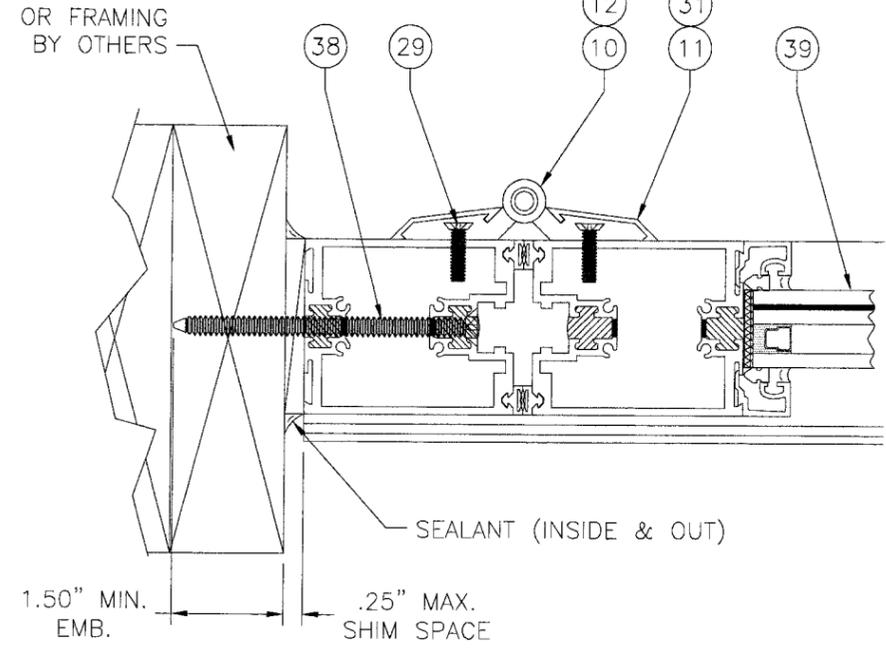
4  
3  
**LOCKING MEETING RAIL**

Approved as complying with the  
Florida Building Code  
Date DEC 28, 2007  
NOA# 07-1012-06  
Miami Dade Product Control  
Division  
By Shag I. Lomas

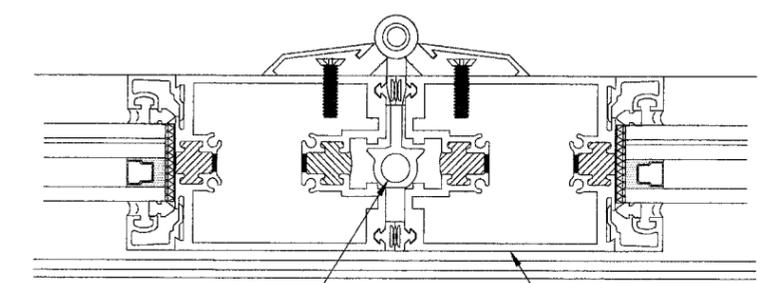
<b>SOLAR INNOVATIONS</b> 234 E. ROSEBUD RD MYERSTOWN, PA 17067			 7/22/07
5000 ST IN FOLDING DOOR INSTALLATION DETAILS			
DRAWN: R.L.	DWG NO. FL 00081	REV A	Luis R. Lomas P.E. Florida No. 62514
SCALE NTS	DATE 2/15/07	SHEET 3 OF 7	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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2X BUCK  
OR FRAMING  
BY OTHERS

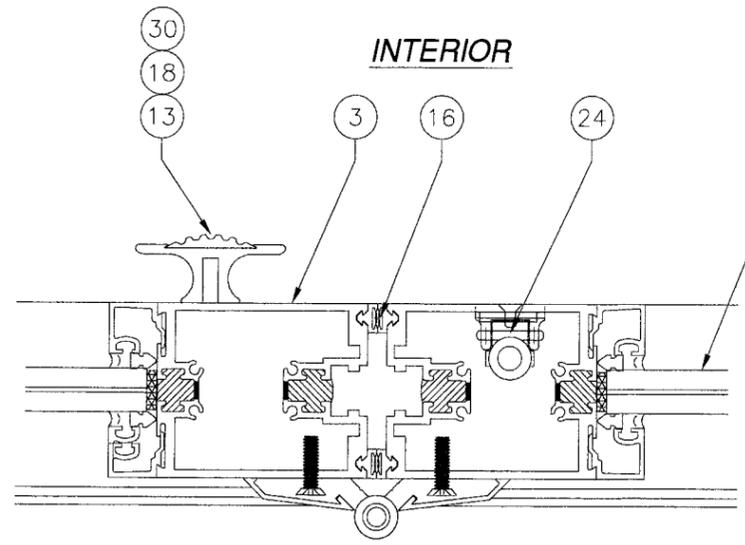
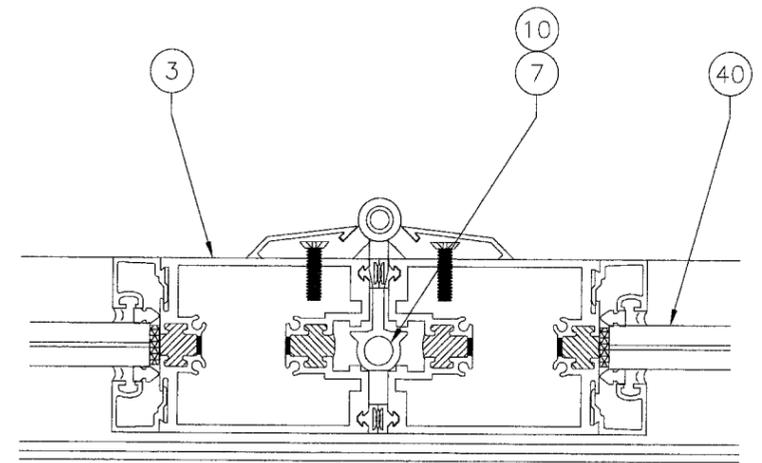


INTERIOR



EXTERIOR

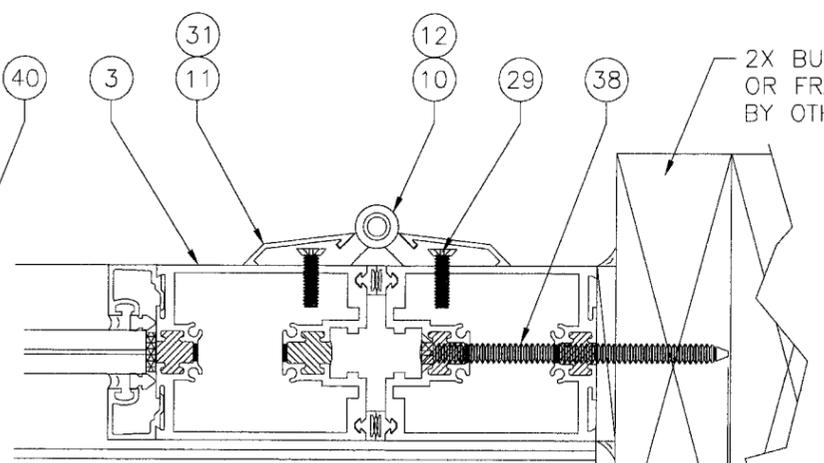
**5**  
**4** HORIZONTAL SECTION



INTERIOR

EXTERIOR

**6**  
**4** HORIZONTAL SECTION



2X BUCK  
OR FRAMING  
BY OTHERS

.25" MAX.  
SHIM SPACE      1.50" MIN.  
EMB.

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Miami Dade Product Control  
Division  
By Shag I. Lunde

**SOLAR INNOVATIONS**

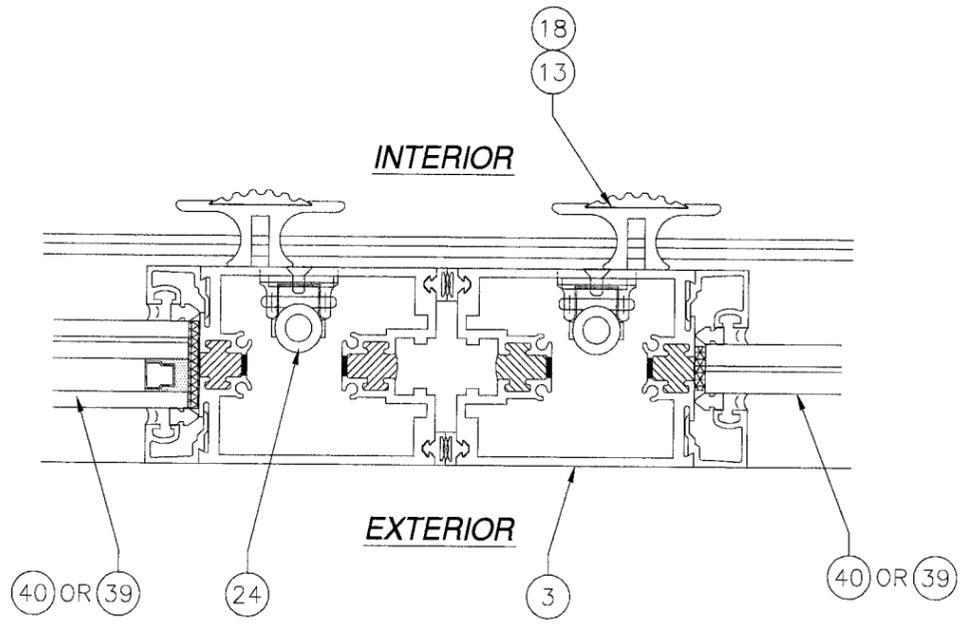
234 E. ROSEBUD RD  
MYERSTOWN, PA 17067

5000 ST FOLDING WALL  
INSTALLATION DETAILS

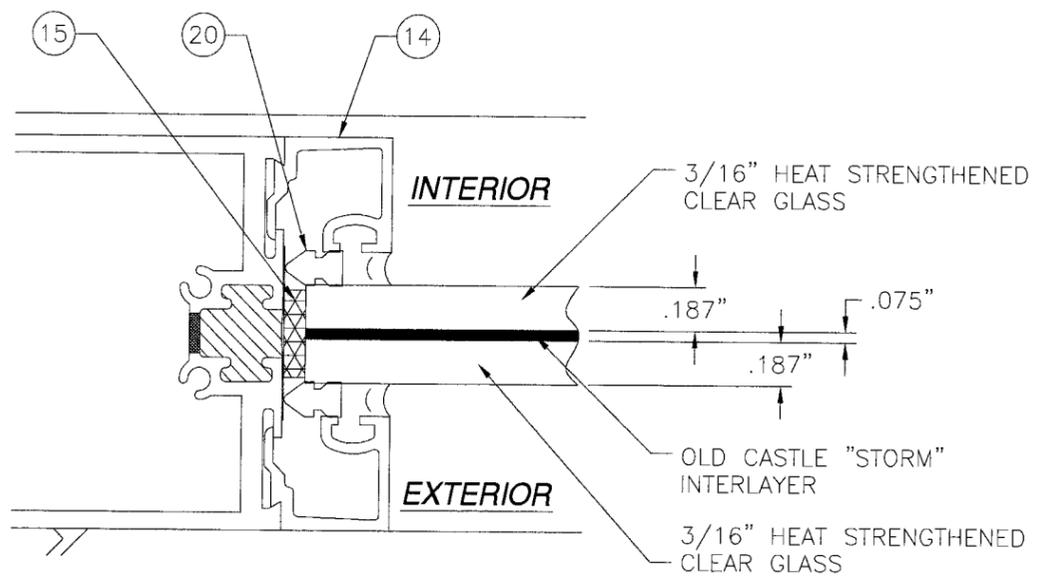
DRAWN: R.L.	DWG NO. FL 00081	REV A
SCALE NTS	DATE 2/15/07	SHEET 4 OF 7

Luis R. Lomas P.E.  
Florida No. 62514

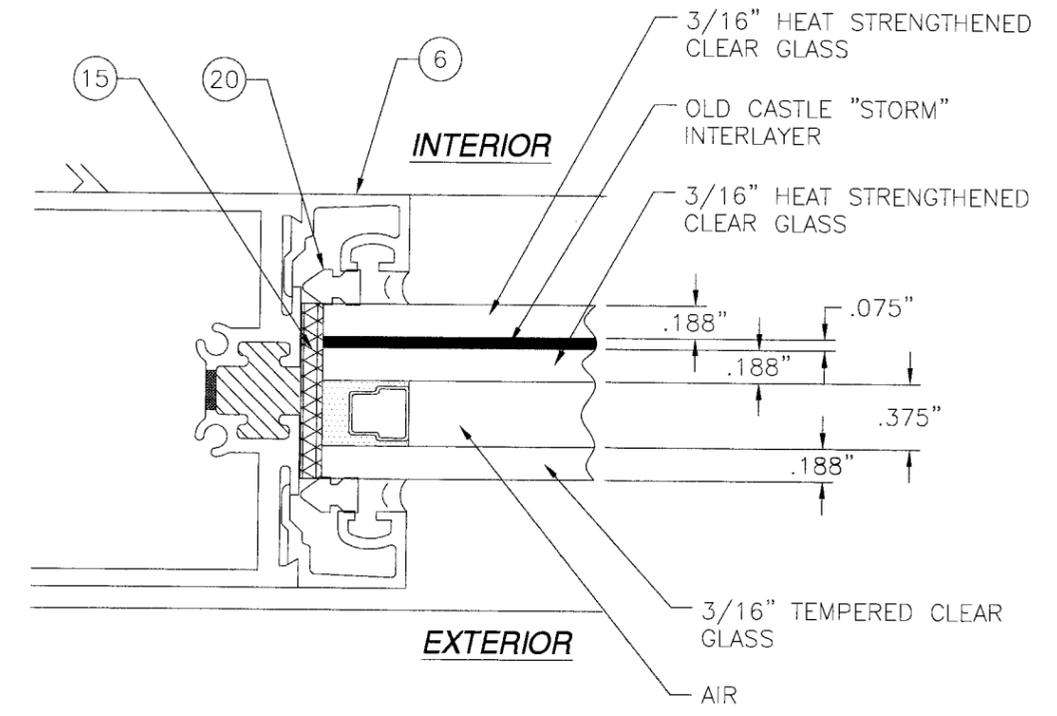
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	6/25/07	R.L.



**3** HORIZONTAL SECTION  
**3** AT SPLIT WALL OPTION



**7/16" CLEAR HEAT STRENGTHENED LAMINATED GLASS DETAIL**

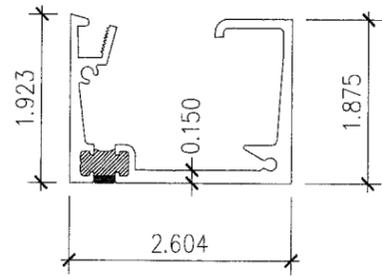


**1 1/16" INSULATED GLASS DETAIL**

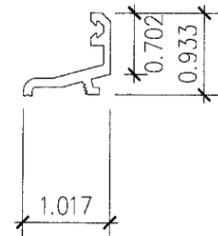
Approved as complying with the Florida Building Code  
Date DEC 26, 2007  
NOA# 07-1012-06  
Miami Dade Product Control Division  
By Shag I. Claude

<b>SOLAR INNOVATIONS</b> 234 E. ROSEBUD RD MYERSTOWN, PA 17067			 7/22/07
5000 ST IN FOLDING DOOR INSTALLATION DETAILS AND GLASS DETAILS			
DRAWN: R.L.	DWG NO. FL 00081	REV A	Luis R. Lomas P.E. Florida No. 62514
SCALE NTS	DATE 2/15/07	SHEET 5 OF 7	

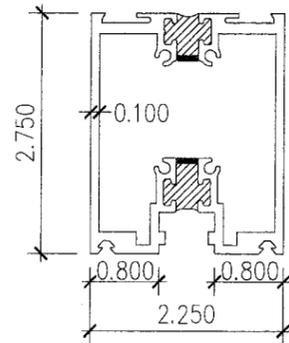
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	6/25/07	R.L.



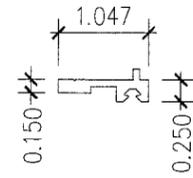
① INFOLD HEAD/SILL



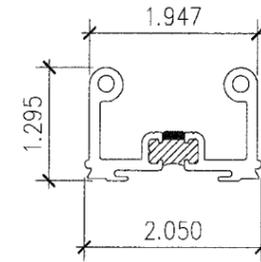
② HEAD/SILL STOP



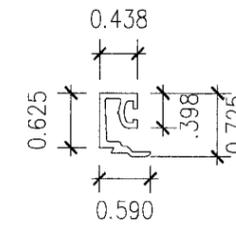
③ FRAME



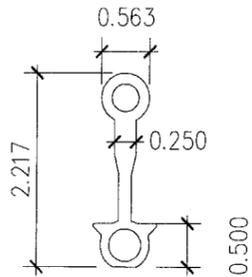
④ FRAME CAP



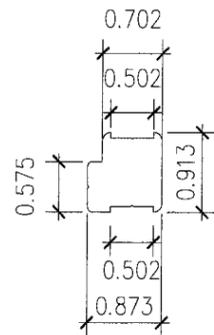
⑤ FRAME LUG



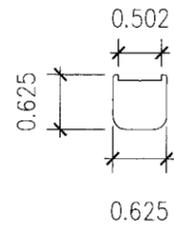
⑥ 1" GLASS STOP



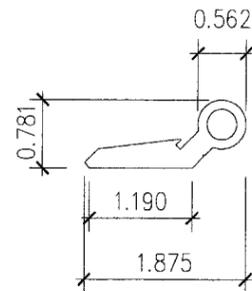
⑦ HINGE EXTENSION



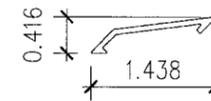
⑧ TROLLY BODY



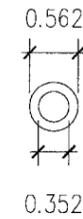
⑨ IDLER BODY



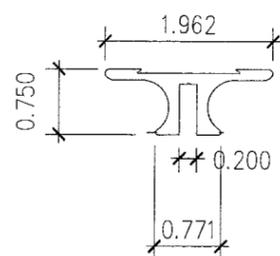
⑩ HINGE



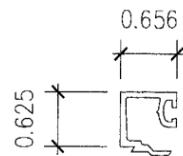
⑪ HINGE COVER



⑫ HINGE BARREL



⑬ HANDLE



⑭ 9/16" GLASS STOP

Approved as complying with the  
Florida Building Code  
Date DEC 26, 2007  
NOAH# 07-1012-06  
Miami Dade Product Control  
Division  
By Isaac I. Llanusa

SOLAR INNOVATIONS

234 E. ROSEBUD RD  
MYERSTOWN, PA 17067

5000 ST IN FOLDING DOOR  
COMPONENTS

DRAWN: R.L.	DWG NO. FL 00081	REV A
SCALE NTS	DATE 2/15/07	SHEET 6 OF 7

*Luis R. Lomas*  
2/22/07

Luis R. Lomas P.E.  
Florida No. 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	6/25/07	R.L.

PARTS LIST		
NO.	PART NUMBER	DESCRIPTION
1	S34709	INFOLD HEAD/SILL (6063-T6)
2	S34711	HEAD/SILL STOP (6063-T6)
3	H07558	FRAME (6063-T6)
4	S34937	FRAME CAP (6063-T6)
5	H07559	FRAME LUG (6063-T6)
6	S34713	1" GLASS STOP (6063-T6)
7	H07560	HINGE EXTENSION (6063-T6)
8	S34716	TROLLEY BODY (6063-T6)
9	S34717	IDLER BODY (6063-T6)
10	H07606	HINGE (6063-T6)
11	S34841	HINGE COVER (6063-T6)
12	H07562	HINGE BARREL (6063-T6)
13	S34938	HANDLE (6063-T6)
14	S34714	9/16" GLASS STOP (6063-T6)
15	1079-01-00	SETTING BLOCK (1/8X1X2 85 DUROMETER EPDM)
16	5088-02-00	PERIMETER BULB (70 DUROMETER EPDM/EPG)
17	5089-02-00	DOOR SWEEP (70 DUROMETER EPDM/EPG)
18	5285-01-00	HANDLE GUARD (65 DUROMTR SANTOPRENE/EPG)
19		NOT USED
20		3/16" ARROW SHIM
21		3 POINT LOCK SET (GU/BRASS)
22	HD50016100	TROLLEY BEARING 1" DIAMETER
23	HD50016000	TROLLEY BEARING 5/8" DIAMETER
24	HD50016302	FLUSHBOLTS (ALUMINUM WITH STEEL RODS)
25	HD50016509	HINGE BUSHING MP2 (GLASS GRAPHITE PTFE)
26	HD50016400	HINGE PIN 1/4" DIA. X 4 1/8" (SST)
27		FLUSHBOLT TIP (STEEL)
28		#10 X 1/2" FH SCREW (STAINLESS STEEL)
29		#10-32 X 3/4" FH SCREW (STAINLESS STEEL)
30		#10-32 X 1" FH SCREW (STAINLESS STEEL)

PARTS LIST		
NO.	PART NUMBER	DESCRIPTION
31		#8-32 X 1/8" SET SCREW (STAINLESS STEEL)
32		3/8"-16 X4" SH CAP SCREW (STAINLESS STEEL)
33		#8 X 3/4" PH SMS (STAINLESS STEEL)
34		#10 X 3/4" PH TEK SCREW (STAINLESS STEEL)
35		#10 X 3/4" FH TEK SCREW (STAINLESS STEEL)
36		3/8" X 3" LDT (STAINLESS STEEL) (ITW/REDHEAD)
37		3/8" X 3" LAG SCREW (STAINLESS STEEL)
38		#12 X 4" FH SMS (STAINLESS STEEL)
39		1 1/16" INSULATED GLASS UNIT (SEE SHEET 11)
40		7/16" LAMINATED GLASS (SEE SHEET 11)
41		2 POINT LOCKSET AND HANDLES (GU/BRASS)
42		#12 X 3/4" FH TEK (STAINLESS STEEL)

NOTES:

- 1) ITEMS 17, 25, 26, 27, AND 33 ARE USED BUT NOT SHOWN.

Approved as complying with the  
 Florida Building Code  
 Date DEC 26, 2007  
 NOA# 07-1612-06  
 Miami Date Product Control  
 Division  
 By Shag L. Lomas

<b>SOLAR INNOVATIONS</b> 234 E. ROSEBUD RD MYERSTOWN, PA 17067			 7/22/07
5000 ST IN FOLDING DOOR B.O.M.			
DRAWN: R.L.	DWG NO. FL 00081	REV A	Luis R. Lomas P.E. Florida No. 62514
SCALE NTS	DATE 2/15/07	SHEET 7 OF 7	