NOTICE OF ACCEPTANCE (NOA)

E.S. Windows, LLC
10653 NE Quaybridge Ct.
Miami, FL 33138

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section 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 Section (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. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 9000 Aluminum Outswing French Door w/ wo Transom - L.M.I.

APPROVAL DOCUMENT: Drawing No. W08-66 Rev L, titled “Series- 9000 Alum Outswing French Door (L.M.I.)”, sheets 1 through 18 of 18, dated 07-14-08 and last revised on JUL 27, 2018, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, 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 Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations:
1. See sheets 2 thru 6 for Design Pressure charts for Single and/or Double door w/ wo transom, glass, threshold type, lock type, hinges type and head, sill and jambs anchors. Lower Design Pressure shall apply to the entire assembly.
2. The Single Door w/ Transom is limited to Max. Design Pressure DP = ± 90 PSF & Saddle threshold = ± 80 PSF.
3. Only Single Door w/ High Threshold option item E-2B (part # ES-9026) is rated for external Positive +120 PSF, Water Resistant Rating, all other thresholds are not rated for water Resistant Ratings (See sheets 8 & 9).
4. When doors are mull to ES 8000 or 9500 series separate Storefront System NOA(s), lower design pressure of doors w/ wo transom or storefront shall control for entire system, AHJ to review tributary end load and installations.

LABELING: Each unit shall bear a permanent label with the manufacturer’s name or logo, city, state and series 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 precedent 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 # 15-0602.09 and consists of this page 1 and evidence pages E-1, E-2 & E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous files

A. DRAWINGS
   1. Manufacturer’s die drawings and sections (Submitted under files # below)

B. TESTS (Submitted under file #12-0306.07 / #10-0301.03)
   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, TAS 202-94
      Along with marked-up drawings and installation diagram of an Alum. Outswing Entrance Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-5554, dated 05/10/08, signed and sealed by Carlos S. Rionda, P.E.
   2. Test reports on: 1) Uniform Static Air Pressure Test,
      2) Large Missile Impact Test per FBC, TAS 201-94
      3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
      Along with marked-up drawings of an Alum. Outswing Entrance Door, prepared by FTL, Inc., Test Report No. FTL-5556, dtd 04/27/08, signed and sealed by Carlos S. Rionda, P.E.
   3. Additional Test reports along with marked-up Dwg. of a single (X) aluminum outswing door per TAS 201, 202 (Full) and 203-94, issued by Fenestration Testing lab, Inc., Test Report No. FTL-5992, dtd 09/09/09, reissued on 2/2/11 signed & sealed by Marlin D. Brinson, P. E.

C. CALCULATIONS
   1. Anchor verification calculations & structural analysis, complying with FBC-2014, prepared by Al-Farooq Corp., dated 05/29/15 and last revised on 03/14/16, signed & sealed by Javad Ahmad, P.E.
   2. Glazing complies w/ ASTM-E-1300-02-04 & -09.

D. QUALITY ASSURANCE
   1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
   1. Notice of Acceptance No. 14-0916.11, issued to E.I. DuPont DeNemours & Co., Inc. for their “DuPont Sentry Glass ® interlayer”, expiring on 01/14/17.

F. STATEMENTS
   1. Statement letter of conformance to FBC 2014 (5th edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/06/16, signed and sealed by Javad Ahmad, P.E.
   2. Lab compliance as part of the above referenced test report.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0319.09
Expiration Date: December 24, 2023
Approval Date: August 09, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER
1. This NOA revises NOA # 13-0617.29, expiring 12/24/18.
3. Test proposals # 07-4070 & 09-0165, approved by BCCO.


A. DRAWINGS
1. Drawing No. W08-66 Rev L, titled “Series- 9000 Alum Outswing French Door (L.M.I.)”, sheets 1 through 18 of 18, dated 07-14-08 and last revised on JUL 27, 2018, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Revised)
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, TAS 202-94

Along with marked-up drawings and installation diagram of X & XX Alum. Outswing Entrance Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-7242, dated 05/03/13, signed and sealed by Idalmis Ortega, P.E.

(This test report revised and issued by Fenestration testing on 05/21/18, signed and sealed by Idalmis Ortega, P.E.)

2. Test reports on: 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, TAS 202-94

Along with marked-up drawings of X and XX Alum. Outswing Entrance Door, prepared by Blackwater Testing Inc., Test Report No. BT-ESW-17-020, dated 06/14/178, signed and sealed by Constantin Bortes, P.E.

C. CALCULATIONS
1. Anchor verification calculations & structural analysis, complying with FBC 2017 (6th edition), prepared by Al-Farooq Corp., dated 03/16/18 and last revised on 07/27/18, signed & sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0319.09
Expiration Date: December 24, 2023
Approval Date: August 09, 2018
E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the “Sentry Glass® Interlayer”, expiring on 07/04/23.
2. Notice of Acceptance No. 16-117.01 issued to Kuraray America, Inc. (Former E.I. DuPont DeNemours & Co., Inc. for the “Kuraray Trofosal Ultra clear and color PVB Interlayer (Former Kuraray Butacite® PVB interlayer)”, expiring on 07/08/19.

F. STATEMENTS
1. Statement letter of conformance to FBC 2017 (6th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 02/21/18, signed and sealed by Javad Ahmad, P.E.
2. Distribution agreement between ES Windows, LLC (distributor) and Energia Solar, S.A, (manufacturer, dated 08/01/18, signed by MS. Carla Garcia (MGR) and Ms. Evelyn Deas (MGR) respectively.

G. OTHER
1. This NOA revises & renews NOA #15-0602.09, expiring 12/24/23.
2. Test proposal dated 12/20/12 approved by Jaime D. Gascon, P.E.
3. Reference PLA files #18-0314.07 (Mr. Glass Doors & windows) and #18-0412.05 (Sunshine Windows)

[Signature]
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0319.09
Expiration Date: December 24, 2023
Approval Date: August 09, 2018
SERIES 9000
ALUMINUM OUTSWING ENTRANCE DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITH OR WITHOUT TRANSOMS. SEE SHEET 3 & 4 FOR DESIGN LOAD CAPACITY OF DOUBLE DOORS WITH OR WITHOUT TRANSOMS. SEE SHEET 5 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITHOUT TRANSOMS WITH ADDITIONAL OPTIONS. SEE SHEET 6 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITHOUT TRANSOMS WITH HIGHER LOAD CAPACITY.

DOORS CAN ALSO BE USED WITH E.S. WINDOWS SERIES 8000 OR SERIES 8500 STOREFRONT SYSTEMS UNDER SEPARATE NOA.

DOOR MULLION ATTACHMENT, END LOAD AND CAPACITY TO BE REVIEWED BY BUILDING OFFICIAL.

DOUBLE DOORS WITH STANDARD, SADDLE AND HIGH THRESHOLD AND SINGLE DOORS WITH STANDARD AND SADDLE THRESHOLD ARE NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

SINGLE DOORS USING ES-9026 (HIGH THRESHOLD OPTION) ARE APPROVED FOR WATER INFILTRATION RESISTANCE.

SEE SHEETS 8 & 18 FOR DETAILS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1/8" OR 28" WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ADOPED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.25" (STD. THRESHOLD)
D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.625" (SADDLE THRESHOLD)
D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.750" (HIGH THRESHOLD)
D.L.O. WIDTH (DOOR) = FRAME WIDTH - 14.0625"
D.L.O. HEIGHT (TRANSOM) = FRAME HEIGHT - 5.125"
D.L.O. WIDTH (TRANSOM) = FRAME WIDTH - 7"

LEAF HEIGHT = FRAME HEIGHT - 2.938" (STD. THRESHOLD)
LEAF HEIGHT = FRAME HEIGHT - 2.563" (SADDLE THRESHOLD)
LEAF HEIGHT = FRAME HEIGHT - 2.438" (HIGH THRESHOLD)
LEAF WIDTH = FRAME WIDTH - 5.188"

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
TABLE #D1
DOORS LOAD CAPACITY – PSF
SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM (O/X)

<table>
<thead>
<tr>
<th>GLASS</th>
<th>LOCKS</th>
<th>HINGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOOR DMS.</td>
<td>TYPE 'A'</td>
<td>TYPE 'B' (\frac{t}{c})</td>
</tr>
<tr>
<td>WIDTH</td>
<td>EXT. (\text{-})</td>
<td>EXT. (\text{-})</td>
</tr>
<tr>
<td>4'7*</td>
<td>98\text{-}1/2'</td>
<td>80.0</td>
</tr>
<tr>
<td>4'7*</td>
<td>110\text{-}1/2'</td>
<td>80.0</td>
</tr>
</tbody>
</table>

SINGLE DOORS WITH SADDLE THRESHOLD LIMITED TO +/-0.0, +/-0.0 PSF
SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #J1
JAMB ANCHORS LOAD CAPACITY – PSF
(Not Applicable at Transom Ends See Note 4)
SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM (O/X)

<table>
<thead>
<tr>
<th>DOOR DMS.</th>
<th>SPACING AT 10\text{\text{-}0}</th>
<th>SPACING AT 8\text{\text{-}0}</th>
<th>SPACING AT 10\text{\text{-}0}</th>
<th>SPACING AT 8\text{\text{-}0}</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRAME WIDTH</td>
<td>EXT. (\text{-})</td>
<td>INT. (\text{-})</td>
<td>EXT. (\text{-})</td>
<td>INT. (\text{-})</td>
</tr>
<tr>
<td>4'7*</td>
<td>110\text{-}1/2'</td>
<td>112.5</td>
<td>120.0</td>
<td>120.0</td>
</tr>
<tr>
<td>4'7*</td>
<td>110\text{-}1/2'</td>
<td>117.4</td>
<td>120.0</td>
<td>120.0</td>
</tr>
</tbody>
</table>

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1500-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCAOS-DEC-219
SEE CHARTS ON SHEET 4 FOR DOUBLE DOOR AND TRANSMO LOAD CAPACITY
### Table D2: Doors Load Capacity - PSF

**Double Door Without Transom (XX) or With Transom (0/XX)**

<table>
<thead>
<tr>
<th>Door Dims.</th>
<th>Type A</th>
<th>Type B/C</th>
<th>Option #1</th>
<th>Option #2</th>
<th>Option #3</th>
<th>Option #1</th>
<th>Option #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>96&quot; 98-1/2&quot;</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
</tr>
<tr>
<td>96&quot; 110-1/2&quot;</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
</tr>
</tbody>
</table>

**Double Doors with Saddle Threshold Limited to +80.0, -80.0 PSF**

See Sheet 7 for Glass Types Description

See Sheet 16 for Locks and Hinges Description

### Table J2: Jamb Anchors Load Capacity - PSF

(Not Applicable at Transom Ends See Note 3)

**Double Doors Without Transom (XX) or With Transom (0/XX)**

<table>
<thead>
<tr>
<th>Door Dims.</th>
<th>1/4&quot; Shim Space</th>
<th>3/8&quot; Shim Space</th>
<th>1/2&quot; Shim Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Width</td>
<td>Frame Height</td>
<td>Anchor</td>
<td>Anchor</td>
</tr>
<tr>
<td>75&quot; 98-1/2&quot;</td>
<td>90.0</td>
<td>88.7</td>
<td>90.0</td>
</tr>
<tr>
<td>90&quot; 110-1/2&quot;</td>
<td>90.0</td>
<td>88.7</td>
<td>90.0</td>
</tr>
</tbody>
</table>

See Sheet 10 for Anchor Description

### Table #21: Head Anchors Load Capacity - PSF

**Double Door Without Transom (XX) or With Transom (0/XX)**

<table>
<thead>
<tr>
<th>Door Dims.</th>
<th>1/4&quot; Shim Space</th>
<th>3/8&quot; Shim Space</th>
<th>1/2&quot; Shim Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Width</td>
<td>Frame Height</td>
<td>Anchor</td>
<td>Anchor</td>
</tr>
<tr>
<td>75&quot; 110-1/2&quot;</td>
<td>90.0</td>
<td>90.0</td>
<td>90.0</td>
</tr>
<tr>
<td>75&quot; 110-1/2&quot;</td>
<td>90.0</td>
<td>90.0</td>
<td>90.0</td>
</tr>
<tr>
<td>90&quot; 110-1/2&quot;</td>
<td>90.0</td>
<td>90.0</td>
<td>90.0</td>
</tr>
</tbody>
</table>

See Sheet 10 for Anchor Description

Sill Anchors Design Load Capacity All Sizes = + 90.0 PSF (Std. & High Thresholds) + 80.0 PSF (Saddle Threshold)

**Note:** Glass capacities on this sheet are based on ASTM E1300-09 (3 sec. gusts) and Florida Building Commission Declaratory Statement DCADS-DEC-219
**SINGLE OR DOUBLE DOORS WITHOUT TRANSOMS**

*Use charts as follows for the corresponding door size.*

1. For glass type, lock and hinge options obtain load capacities from Table #3.
2. These doors approved with std. threshold only.
3. For jamb anchors type/size/spacing obtain load capacities from Table #3.
4. For head anchors, type/size/spacing obtain load capacities from Table #3.

The lowest values from steps 1, 3 and 4 will govern.

**Table #3**

<table>
<thead>
<tr>
<th>Single Door (X)</th>
<th>Double Door (XX)</th>
<th>Glass</th>
<th>Locks</th>
<th>Hinges</th>
<th>Single Door (X)</th>
<th>Double Door (XX)</th>
<th>Glass</th>
<th>Locks</th>
<th>Hinges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dims.</td>
<td>Dims.</td>
<td>Type</td>
<td>Option</td>
<td>Option</td>
<td>Dims.</td>
<td>Dims.</td>
<td>Type</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>Frame Width</td>
<td>Frame Height</td>
<td>Frame Width</td>
<td>Frame Height</td>
<td>Ext. (+)</td>
<td>Frame Width</td>
<td>Frame Height</td>
<td>Frame Width</td>
<td>Frame Height</td>
<td>Ext. (+)</td>
</tr>
<tr>
<td>30-1/4&quot;</td>
<td>90&quot;</td>
<td>75-1/2&quot;</td>
<td>90&quot;</td>
<td>105.3</td>
<td>30-1/4&quot;</td>
<td>90&quot;</td>
<td>75-1/2&quot;</td>
<td>90&quot;</td>
<td>105.3</td>
</tr>
</tbody>
</table>

**Table #13**

<table>
<thead>
<tr>
<th>Single Door (X)</th>
<th>Double Door (XX)</th>
<th>Shims Size</th>
<th>Spacing</th>
<th>Anchors Type</th>
<th>Anchors</th>
<th>Anchors</th>
<th>Anchors</th>
<th>Anchors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dims.</td>
<td>Dims.</td>
<td>1/4&quot; Shim</td>
<td>At 18&quot; O.C.</td>
<td>'A' &amp; 'B'</td>
<td>'A' &amp; 'C'</td>
<td>'A' &amp; 'C'</td>
<td>'A' &amp; 'C'</td>
<td></td>
</tr>
<tr>
<td>Frame Width</td>
<td>Frame Height</td>
<td>75-1/2&quot;</td>
<td>90&quot;</td>
<td>105.3</td>
<td>89.9</td>
<td>105.3</td>
<td>98.1</td>
<td>105.3</td>
</tr>
</tbody>
</table>

**Table #13**

<table>
<thead>
<tr>
<th>Single Door (X)</th>
<th>Double Door (XX)</th>
<th>Shims Size</th>
<th>Spacing</th>
<th>Anchors Type</th>
<th>Anchors</th>
<th>Anchors</th>
<th>Anchors</th>
<th>Anchors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dims.</td>
<td>Dims.</td>
<td>1/4&quot; Shim</td>
<td>At 18&quot; O.C.</td>
<td>'A' &amp; 'B'</td>
<td>'A' &amp; 'C'</td>
<td>'A' &amp; 'C'</td>
<td>'A' &amp; 'C'</td>
<td></td>
</tr>
<tr>
<td>Frame Width</td>
<td>Frame Height</td>
<td>75-1/2&quot;</td>
<td>90&quot;</td>
<td>105.3</td>
<td>105.3</td>
<td>105.3</td>
<td>105.3</td>
<td></td>
</tr>
</tbody>
</table>

**Typical Elevation (X)**

Surface applied false mounting may be used.

3" spacing at head

5/16" maximum head/sill corner

**Typical Elevation (XX)**

Surface applied false mounting may be used.

3" spacing at head

5/16" maximum head/sill corner

**NOTES:**

Glass capacities on this sheet are based on ASTM E1300-09 (3 sec. gusts) and Florida Building Commission Declaratory Statement DCA05-DEC-219

**PRODUCT REVIEW**

Complying with the Florida Building Commission requirements.

Acceptance No. 18-0125-09

Expiration Date: 7-12-09

Nadir J. Affan, Project Manager

**Scale:** 1/4" = 1'-0"

**getStatus**

**Drawing No.: W08-66**

**Sheet:** 5 of 18

**Revision:** 03-1-09

**Sheet Date:** Jul 27, 2018

**Drawing No:** 70592

**Drawing No:** 70592
SINGLE DOORS WITHOUT TRANSOMS

USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE

1. FOR GLASS TYPE, LOCK AND HINGE OPTIONS
   OBTAIN LOAD CAPACITIES FROM TABLE #4.
2. THESE DOORS APPROVED WITH STD. THRESHOLD ONLY.
3. FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN
   LOAD CAPACITIES FROM TABLE #14.

THE LOWEST VALUES FROM STEPS 1 AND 3
WILL GOVERN.

### TABLE #D4
DOORS LOAD CAPACITY - PSF
SINGLE DOORS WITHOUT TRANSOM

<table>
<thead>
<tr>
<th>SINGLE DOOR(S)</th>
<th>GLASS</th>
<th>LOCKS</th>
<th>HINGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMS.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TYPE 'B', OPTION #2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40&quot; x 84&quot;</td>
<td>120.0</td>
<td>130.0</td>
<td>120.0</td>
</tr>
</tbody>
</table>

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

### TABLE #14
JAMB ANCHORS LOAD CAPACITY - PSF
SINGLE DOORS WITHOUT TRANSOM

<table>
<thead>
<tr>
<th>SINGLE DOOR(S)</th>
<th>1/4&quot; SHIM SPACE</th>
<th>3/8&quot; SHIM SPACE</th>
<th>1/2&quot; SHIM SPACE</th>
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<tbody>
<tr>
<td>DIMS.</td>
<td>AT 16&quot; O.C.</td>
<td>AT 8&quot; O.C.</td>
<td>AT 16&quot; O.C.</td>
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<tr>
<td>TYPE 'A', 'B', 'C'</td>
<td>ANCHOR</td>
<td>ANCHOR</td>
<td>ANCHOR</td>
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<tr>
<td>40&quot; x 84&quot;</td>
<td>112.5</td>
<td>130.0</td>
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SEE SHEET 10 FOR ANCHOR DESCRIPTION

SILL ANCHORS DESIGN LOAD CAPACITY = ± 130.0 PSF (STD. THRESHOLD)

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219
GLAZING OPTIONS

G L A S S  T Y P E  ' A '  
9/16" OVERALL LAM. GLASS

G L A S S  T Y P E  ' A . L '  
9/16" OVERALL LAM. GLASS

G L A S S  T Y P E  ' H '  
9/16" OVERALL LAM. GLASS

G L A S S  T Y P E  ' B . L '  
9/16" OVERALL LAM. GLASS

1/4" HEAT STRENGTH GLASS

0.060" Interlayer  
TrieShiel PVB
By Kuraray America, Inc.

1/4" SILICONE
DowSil 983
DowSil 795

1/4" HEAT STRENGTH GLASS

0.060" Interlayer  
SentryGlass
By Kuraray America, Inc.

1/4" SILICONE
DowSil 983
DowSil 795

1/4" HEAT STRENGTH GLASS

0.060" Interlayer  
TrieShiel PVB
By Kuraray America, Inc.

1/4" SILICONE
DowSil 983
DowSil 795

1/4" HEAT STRENGTH GLASS

0.060" Interlayer  
SentryGlass
By Kuraray America, Inc.

1/4" SILICONE
DowSil 983
DowSil 795

1/4" TEMP. GLASS

3/8" AIR SPACE

3/16" HEAT STRENGTH GLASS

0.060" Interlayer  
TrieShiel PVB
By Kuraray America, Inc.

3/16" HEAT STRENGTH GLASS

0.060" Interlayer  
SentryGlass
By Kuraray America, Inc.

SPACER  
(SEE SPEC BELOW)

EXTERIOR

5/8" MIN. THK.
GLASS BIECE

5/8" MIN. THK.
GLASS BIECE

5/8" MIN. THK.
GLASS BIECE

5/8" MIN. THK.
GLASS BIECE

3/8" AIR SPACE  
CONSISTING OF:

SPACER:  
"HELM" LOW PROFILE ALUMINUM SPACER
BY LINERMANN GMBH
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DowSil 981
GE 2000
DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-8500 FRAMES.

STANDARD THRESHOLD
NOT APPROVED FOR WATER INFILTRATION RESISTANCE
(SEE SHEETS 2, 4, 5 & 6)

TYPICAL ANCHORS
SEE ELEVATIONS FOR SPACING

CONCRETE
3000 PSI MIN.
EDGE DIST.

SADDLE THRESHOLD
NOT APPROVED FOR WATER INFILTRATION RESISTANCE
LIMIT MAX. LOADS TO 4.80 PSF

TYPICAL ANCHORS
SEE ELEVATIONS FOR SPACING

CONCRETE
3000 PSI MIN.
EDGE DIST.

HIGH THRESHOLD OPTION
APPROVED FOR WATER RESISTANCE WHEN USED WITH SINGLE DOORS (SEE SHEET 2)
NOT APPROVED FOR WATER RESISTANCE WHEN USED WITH DOUBLE DOORS

TYPICAL ANCHORS
SEE ELEVATIONS FOR SPACING

CONCRETE
3000 PSI MIN.
EDGE DIST.

PHOTO HINGES
OPTIONAL TO BUTT HINGES

PHOTO HINGES
OPTIONAL TO BUTT HINGES

PHOTO HINGES
OPTIONAL TO BUTT HINGES

PHOTO HINGES
OPTIONAL TO BUTT HINGES
DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-8000 FRAMES.

DOOR CLOSERS OPTIONAL

ALT. STANDARD THRESHOLD
NOT APPROVED FOR WATER INFILTRATION RESISTANCE
1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY E.S. WGW. MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**TYPE 'A':**
- 1/4" ULTRACON BY 'ELCO' (Fy=177 KSI, fy=155 KSI)
- Thru 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
  - 1 1/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMS)
- DIRECTLY INTO CONCRETE OR BLOCKS
  - 2" MIN. EMBED INTO CONCRETE (HEAD/JAMS)
  - 2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMS)

**ANCHOR EDGE DISTANCES**
- INTO CONCRETE AND BLOCKS = 2 1/2" MIN.
- INTO WOOD STRUCTURE = 1" MIN.

**TYPE 'C':**
- 5/16" ULTRACON BY 'ELCO' (Fy=177 KSI, fy=155 KSI)
- Thru 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
  - 1 1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMS)
  - 1 1/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMS)
- DIRECTLY INTO CONCRETE OR BLOCKS
  - 2" MIN. EMBED INTO CONCRETE (HEAD/JAMS)
  - 2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMS)

**ANCHOR EDGE DISTANCES**
- INTO CONCRETE AND BLOCKS = 3 1/8" MIN.
- INTO WOOD STRUCTURE = 1 1/4" MIN.

**TYPE 'D':**
- 1/4" TEK'S OR SELF DRILLING SCREWS (GRADE 5 CRS)
  - INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR INTO METAL STRUCTURES (HEAD/JAMS)
  - (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
    - ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
    - STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
  - (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**ANCHOR EDGE DISTANCES**
- INTO METAL STRUCTURE = 1/2" MIN.

**TYPE 'A1':**
- 1/4" X 1-3/4" ULTRACON BY 'ELCO' (Fy=177 KSI, fy=155 KSI)
  - DIRECTLY INTO CONCRETE (FOR STD. AND HIGH THRESHOLD)
  - WITH 1-1/2" MIN. EMBED INTO CONCRETE

**ANCHOR EDGE DISTANCES**
- INTO CONCRETE = 2-1/2" MIN.

**TYPE 'C1':**
- 5/16" X 2" ULTRACON BY 'ELCO' (Fy=177 KSI, fy=155 KSI)
  - DIRECTLY INTO CONCRETE (FOR SADDLE THRESHOLD)
  - WITH 1-1/2" MIN. EMBED INTO CONCRETE

**ANCHOR EDGE DISTANCES**
- INTO CONCRETE = 3-1/8" MIN.

WOOD AT HEAD OR JAMS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMS Fc = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMS Fm = 2000 PSI MIN.
DOORS SHOWN WITH SERIES--9500 FRAMES CAN ALSO BE USED WITH SERIES--8000 FRAMES.
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<th>PART #</th>
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**MIDGE BACKUP PLATE**

**SCREW COVER (632)**

**SUPPORT ANGLE**

**HINGE BACKUP PLATE**
**LOCKS:** (See Tables On Sheets 2 Thru 6 For Load Capacities)

**OPTION #1: LIMIT MAX. LOADS TO ±80.0 PSF**

ACTIVE & INACTIVE LEAF:
CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'JACKSON PANIC SYSTEM' #1285 LOCATED AT 41" FROM SILL AT EACH LEAF.
FASTENED WITH
(1) #14 X 1 1/4" HH SELF DRILLING SCREW AT ONE END AND
(2) #12-24 x 1 1/2" FH MACHINE SCREWS AT OTHER END OR
CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'ADAMS RITE' LOCATED AT 40" FROM SILL AT EACH LEAF.
FASTENED WITH
(2) #10-32 x 3 1/4" FH MACHINE SCREWS AT ONE END AND
(2) #10-24 x 1 1/2" FH MACHINE SCREWS AT OTHER END

**OPTION #2: LIMIT MAX. LOADS TO ±80.0, -90.0 PSF**

ACTIVE & INACTIVE LEAF:
CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'JACKSON PANIC SYSTEM' #2086 LOCATED AT 41" FROM SILL AT EACH LEAF.
FASTENED WITH
(1) #14 X 1 1/4" HH SELF DRILLING SCREW AT ONE END AND
(2) #12-24 x 1 1/2" FH MACHINE SCREWS AT OTHER END OR
CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'DOR-O-MATIC' LOCATED AT 40" FROM SILL AT EACH LEAF.
FASTENED WITH
(2) #12-24 x 1 1/2" FH MACHINE SCREWS AT ONE END

**OPTION #3:**

ACTIVE LEAF:
KEY OPERATED THREE POINT LOCK SYSTEM 4015/4016 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STYLE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #12-24 X 1/2" FH MACHINE SCREWS

INACTIVE LEAF:
MANUALLY OPERATED TWO POINT LOCK SYSTEM 1880/81 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STYLE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #8-32 X 1/4" FH MACHINE SCREWS

**Hinges:** (See Tables On Sheets 2 Thru 6 For Load Capacities)

**OPTION #1:**
OFFSET PIVOT HINGES
ALUMINUM AT TOP AND BOTTOM
FASTENED TO FRAME AND THRESHOLD WITH
#10-24 X 1 1/2" FH THREAD CUTTING SCREWS
(2) AT THRESHOLD, (2) AT JAMB BOTTOM
(3) AT FRAME HEAD
HEAVY DUTY BRASS OR BRONZE AT MIDSPAN
FASTENED TO FRAME AND LEAF WITH
(4) 1/4-20 X 5 1/8" MS

**OPTION #2:**
4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
LOCATED AT
11" FROM TOP & BOTTOM AND AT MIDSPAN
FASTENED TO DOOR FRAME AND LEAF STYLE WITH
(4) #12-24 x 1 1/2" FH MACHINE SCREWS PER HASP

**OPTION #2.1:**
4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
(4) PER LEAF
(1) AT 9-5/8" FROM TOP TO CL OF HINGE
(1) AT 10-5/8" FROM BOTTOM TO CL OF HINGE
(2) INTERMEDIATE HINGES EQUALLY SPACED FROM TOP AND BOTTOM HINGE
FASTENED TO DOOR FRAME AND LEAF STYLE WITH
(4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP

**EXTERIOR**

**STATE OF FLORIDA**

**W08-66**

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