NOTICE OF ACCEPTANCE (NOA)

Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, FL 33012

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 RER - 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. RER 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 "2011" Aluminum French Door w/wo Reinforced Sidelites-L.M.I.

APPROVAL DOCUMENT: Drawing No: FD01-15 Rev 1, titled "Series 2011 Aluminum French Door w/ Sidelites (L.M.I.)", sheets 1 through 26 of 26, prepared by manufacturer, dated 05/17/16 and last revised on 12-15-17, signed and sealed by Francisco Hernandez, 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 and Small Missile Impact Resistant

Limitations:
1. See Sheet 6 for Design Pressures based on cluster anchors at Head or sill in Conc. / Metal or Wood substrates per sheet 4 and sheet 5, applicable to all configurations in sheets 2 and 3.
2. Full length steel reinforcement (item #32) required at sidellites, when door is used w/mullion (item #13).
3. Flush bolt locking option require interior top/bottom Flush bolts at active and inactive door leaf. The Regent 3-point Mortise lock w/deadbolt mechanism option to be at active door leaf.

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", 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 # 15-0929.11 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

Expiry Date: September 01, 2021
Approval Date: February 22, 2018

Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous files

A. DRAWINGS
   1. Manufacturer's die drawings and sections
   2. Drawing No: FD01-15, titled “Series 2011 Aluminum French Door w/ Sidelites (L.M.I.),” sheets 1 through 26 of 26, prepared by manufacturer, dated 05/17/16 and last revised on 07-27-16, signed and sealed by Francisco Hernandez, 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
      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 diagrams of OXXO Alum French doors w/Sidelites, prepared by Fenestration Testing Lab, Inc., Test Report No. FTL-7832 dated 08/19/15, signed and sealed by Idalmis Ortega, P. E.
   Note: This test report has an addendum letter dated June 09, 2016, issued by Fenestration Testing lab.

C. CALCULATIONS
   1. Anchor verification calculations and structural analysis, complying with FBC 2014, dated 09/02/15, prepared, signed and sealed by Francisco Hernandez, P.E.
   2. Glazing complies w/ ASTME-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 Kuraray America, Inc. (Former E.I. DuPont DeNemours & Co.) for the “SentryGlas® (Clear and White) Glass Interlayers”, expiring on 07/04/18.

F. STATEMENTS
   1. Statement letter of conformance to FBC 2014(5th Edition) and letter of no financial interest, both dated SEP 20, 2015, prepared, signed and sealed by Francisco Hernandez, P.E.
   2. Lab compliance as part of the above referenced test report.

G. OTHER
   1. Test proposal dated 08/04/14, approved by Jaime D. Gascon, P.E.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-1226.12
Expiration Date: September 01, 2021
Approval Date: February 22, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED


A. DRAWINGS
   1. Drawing No: FD01-15 Rev1, titled “Series 2011 Aluminum French Door w/ Sidelites (L.M.I.)”, sheets 1 through 26 of 26, prepared by manufacturer, dated 05/17/16 and last revised on 12-15-17, signed and sealed by Francisco Hernandez, P.E.
   Note: This revision consists of editorial FBC 2017 code related notes only.

B. CALCULATIONS
   1. None

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

D. MATERIAL CERTIFICATIONS
   1. None

E. STATEMENTS
   2. E-mail Statement letter of extent of DWG revision dated FEB 09, 2018, prepared, signed and sealed by Noel Martinez, Manager, Sun Shine Window Mfg., Inc.

F. OTHER
   1. This NOA revises NOA # 15-0929.11, expiring 09/01/21.

Ishaq F. Chanda, P.E.
Product Control Examiner
NOA No. 17-1226.12
Expiration Date: September 01, 2021
Approval Date: February 22, 2018
GENERAL NOTES:
2. SHUTTERS ARE NOT REQUIRED.
3. REFERENCE TEST REPORT FTI-7832 DATED ON 08/19/2015.
4. FOR INSTALLATION REFER TO ANCHOR DISTRIBUTION ELEVATIONS ON SHEET 4 OF 26, CLUSTERS DETAILS ON SHEET 5 OF 26 AND TYPICAL SECTIONS ON SHEETS 17 THRU 26.
5. WOOD BUCKS NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE PROPERLY ANCHORED AND SEALED TO SUSTAIN AND TRANSFER THE LOADS IMPOSED BY THE GLAZING SYSTEM TO THE STRUCTURE AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
6. WOOD HOST STRUCTURE NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE SOUTHERN YELLOW PINE G = 0.55 OR GREATER DENSITY AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
7. CONCRETE (AT HEAD AND THRESHOLD) / FILLED MASONRY STRUCTURE (AT JAMB) FOR UNIT ATTACHMENT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
   - CONCRETE STRENGTH Fc'28 = 3515 PSI MIN.
   - CMU AS PER ASTM C90. CMU MUST BE 8-INCH THICK, NORMAL WEIGHT BLOCKS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1.8 KSI.
   - FILLED CMU FM' = 2000 PSI MIN.
8. STEEL HOST STRUCTURE NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL NOT BE LESS THAN 1/8" THICK. STEEL SHALL BE Fy = 36 KSI MIN. STEEL STRUCTURE SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
9. ALUMINUM HOST STRUCTURE NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL. THE THICKNESS OF THE ALUMINUM HOST STRUCTURE SHALL NOT BE LESS THAN 1/8" ALUMINUM SHALL BE 6063-T6 AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
10. ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN FBC.
11. DOORS SHALL COMPLY WITH EGRESS REQUIREMENTS OF FBC.
12. COLONIAL FALSE MUNTINS CAN BE SURFACE APPLIED.
13. SEE CORNERS DETAILS ON SHEET 26 OF 26.
14. FOR 1/4" SHIM SPACE AT THRESHOLD USE NON-SHRINK, NON-METALLIC HYDRAULIC CEMENT GROUT PER ASTM C1107/C1107M STANDARD SPECIFICATION FOR PACKAGED DRY.

GENERAL NOTES AND INDEX OF DRAWINGS

THIS PRODUCT IS IMPACT RESISTANT
SHUTTERS ARE NOT REQUIRED

INDEX OF DRAWINGS:
1 OF 26 -- GENERAL NOTES AND INDEX OF DRAWINGS.
2 OF 26 -- DOUBLE OUTSWING DOOR ELEVATIONS.
3 OF 26 -- SINGLE OUTSWING DOOR ELEVATIONS.
4 OF 26 -- ANCHOR DISTRIBUTION.
5 OF 26 -- CLUSTER DETAILS.
6 OF 26 -- DESIGN PRESSURES CHARTS.
7 OF 26 -- VERTICAL SECTIONS A, B, C AND D.
8 OF 26 -- VERTICAL SECTIONS E AND F.
9 OF 26 -- HORIZONTAL SECTIONS G.
10 OF 26 -- HORIZONTAL SECTIONS H.
11 OF 26 -- HORIZONTAL SECTIONS I.
12 OF 26 -- HORIZONTAL SECTIONS J.
13 OF 26 -- HORIZONTAL SECTIONS K.
14 OF 26 -- HORIZONTAL SECTIONS L.
15 OF 26 -- HORIZONTAL SECTIONS M.
16 OF 26 -- HORIZONTAL SECTIONS N.
17 OF 26 -- HORIZONTAL SECTIONS O.
18 OF 26 -- MATERIAL LIST AND GLAZING DETAILS.
19 OF 26 -- DOOR FRAME JAMB INSTALLATION DETAILS.
20 OF 26 -- DOOR FRAME HEAD INSTALLATION DETAILS.
21 OF 26 -- DOOR FRAME HEAD INSTALLATION DETAILS.
22 OF 26 -- DOOR FRAME STANDARD THRESHOLD INSTALLATION DETAILS.
23 OF 26 -- DOOR FRAME HANDICAP THRESHOLD INSTALLATION DETAILS.
24 OF 26 -- CORNERS DETAILS.
DOUBLE OUTSWING DOOR ELEVATIONS

Exterior Elevation
Double Outswing Door W/ Sidelines
(with flush bolt option)

Interior Elevation
Double Outswing Door W/ Sidelines
(with flush bolt option)

D.O.
D.O. Height = Frame Height = 15 1/8"
D.O. Width (Panel) = Panel Width = 11 1/8"
D.O. Width (Sidelite) = Max. Sidelite Frame Width = 13 1/8"

This product is impact resistant shutters are not required
SINGLE OUTSWING DOOR ELEVATIONS

THIS PRODUCT IS IMPACT RESISTANT
SHUTTERS ARE NOT REQUIRED
ANCHOR DISTRIBUTION ELEVATIONS

D.O.
D.O. HEIGHT = FRAME HEIGHT - 15 1/8"  
D.O. WIDTH (PANEL) = PANEL WIDTH - 11 1/2"  
D.O. WIDTH (SIDELITE) = MAX. SIDE LITE FRAME WIDTH - 13 1/8"

THIS PRODUCT IS IMPACT RESISTANT SHUTTERS ARE NOT REQUIRED

EXTERIOR ELEVATION  
DOUBLE OUTSWINGING DOOR W/SIDELITES

EXTERIOR ELEVATION  
DOUBLE OUTSWING DOOR

EXTERIOR ELEVATION  
SINGLE OUTSWINGING DOOR W/SIDELITES

EXTERIOR ELEVATION  
SINGLE OUTSWING DOOR
HEAD AND THRESHOLD ASTRAGAL/SIDELITE END CLUSTER DETAILS

NOTE:
1. SEE SHEETS 19 THROUGH 25 FOR INSTALLATION DETAILS.

CLUSTER ANCHORS SHALL BE AS FOLLOWS:
- 5/16" # ULTRACON BY ELOC (Fu = 188 KSI, Fy = 155 KSI) WITH 1 3/4" MIN. INSERTION INTO CONCRETE AND 3 1/8" MIN. EDGE DISTANCE.
- 5/16" # ULTRACON BY ELOC (Fu = 188 KSI, Fy = 155 KSI) WITH 1 7/8" MIN. PENETRATION INTO WOOD AND 1 1/4" MIN. EDGE DISTANCE.
- 1/4" # Kwik-Flex OR 1/4"-20 DRILL-FLEX OR 5 (Fy = 160 KSI MIN.) SELF DRILLING SCREWS THROUGH METAL, MIN. 3 THREADS BEYOND SUBSTRATE.

CLUSTER DETAIL 1
(5 ANCHORS IN CONCRETE OR METAL)
USE FOR HEAD AND THRESHOLD AT ASTRAGAL END

CLUSTER DETAIL 2
(6 ANCHORS IN CONCRETE OR METAL)
USE FOR HEAD AND THRESHOLD AT SIDELITE END/MULLION/DOOR CONNECTION

CLUSTER DETAIL 3
(2 ANCHORS IN CONCRETE OR METAL)
USE FOR HEAD AND THRESHOLD AT DOOR AND/OR SIDELITE CORNERS

CLUSTER DETAIL 1A
(7 ANCHORS IN WOOD)
USE FOR HEAD AND THRESHOLD AT ASTRAGAL END

CLUSTER DETAIL 2A
(8 ANCHORS IN WOOD)
USE FOR HEAD AND THRESHOLD AT SIDELITE END/MULLION/DOOR CONNECTION

CLUSTER DETAIL 3A
(2 ANCHORS IN WOOD)
USE FOR HEAD AND THRESHOLD AT DOOR AND/OR SIDELITE CORNERS
### Design Pressures Charts

#### Design Pressures for 5/16" dia. Ultracon Anchor Clusters Installed in Concrete or 1/4" Pink Flex or Dril-Flex or 5 Self Drilling Screws Clusters Installed in Wood

<table>
<thead>
<tr>
<th>Door Panel, Frame Width (Nominal)</th>
<th>Without Sidelite</th>
<th>With Sidelite</th>
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<tbody>
<tr>
<td>Single (42&quot;) Double (78&quot;)</td>
<td>80.00 80.00</td>
<td>48&quot; 78.97 78.97</td>
</tr>
<tr>
<td>108&quot;</td>
<td>80.00 80.00</td>
<td>42&quot; 78.97 78.97</td>
</tr>
<tr>
<td>Single (30&quot;) Double (60&quot;)</td>
<td>80.00 80.00</td>
<td>48&quot; 80.00 80.00</td>
</tr>
<tr>
<td>96&quot;</td>
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<td>48&quot; 80.00 80.00</td>
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<tr>
<td>82&quot;</td>
<td>80.00 80.00</td>
<td>42&quot; 80.00 80.00</td>
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### Wind Load A.S.D. Factor Note

The design pressures shown on these charts are for allowable stress design (A.S.D.). Wind loads calculated based upon "Ultimate Wind Speed" as determined from Article 27.7-10 are permitted to be multiplied by 0.6 to convert to A.S.D. and can be compared to the A.S.D. charts.

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**Note:**

1. Doors requiring egress (full user passage) shall comply with the requirements of Note No. 1 on Sheet 1 of 26.
HANDICAP THRESHOLD SHALL NOT BE USED WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

NOTE:
SEE GLAZING DETAILS ON SHEET 18 OF 26

DOOR PANEL WITH HANDICAP THRESHOLD (OPTIONAL)
A.D.A. COMPLIANT.

VERTICAL SECTIONS

FOR INSTALLATION PURPOSE SEE SHEETS 19 THRU 25
NOTE:
SEE GLAZING DETAILS ON SHEET 18 OF 26

HORIZONTAL SECTIONS
(Double Outswing Door with Flush Bolt Option)

FOR INSTALLATION PURPOSE SEE SHEETS 19 THRU 25
HORIZONTAL SECTIONS

(DOUBLE OUTSWING DOOR WITH 3 POINT MORTISE LOCK OPTION)

NOTE:
SEE GLAZING DETAILS ON SHEET 18 OF 26

FOR INSTALLATION PURPOSE SEE SHEETS 19 THRU 22
NOTE:
SEE GLAZING DETAILS ON SHEET 18 OF 26

HORIZONTAL SECTIONS

FOR INSTALLATION PURPOSE SEE SHEETS 19 THRU 25
HORIZONTAL SECTIONS

FOR INSTALLATION PURPOSE SEE SHEETS 19 THRU 25
HORIZONTAL SECTIONS
(SINGLE OUTSWING DOOR WITH FLUSH BOLT OPTION)

NOTE:
SEE GLAZING DETAILS ON SHEET 18 OF 26

FOR INSTALLATION PURPOSE SEE SHEETS 19 THRU 25
NOTE:
SEE GLAZING DETAILS ON SHEET 18 OF 26

HORIZONTAL SECTIONS
(SINGLE OUTSWING DOOR WITH 3 POINT MORTISE LOCK OPTION)

FOR INSTALLATION PURPOSE SEE SHEETS 19 THRU 25
DOOR FRAME HEAD

DOOR FRAME JAMB

DOOR FRAME STANDARD THRESHOLD

DOOR FRAME HANDICAP THRESHOLD

INSTALLATION SCREW COVER

HINGE STILE

ACTIVE STILE

INACTIVE STILE

HANDICAP THRESHOLD SCREW COVER

WEATHER STRIP PLATE

GLAZING BEAD FOR GLASS THICKNESS = 1"

GLAZING BEAD FOR GLASS THICKNESS = 7/16"

TOP & BOTTOM PLATE

NOTE:
ALL DIMENSIONS ARE INCHES UNIT.

EXTRUSIONS
MATERIAL LIST AND GLAZING DETAILS

<table>
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<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>QUANTITY</th>
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<td>PE FOAM</td>
<td>TBP CONVERTING</td>
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<td>DOW CORNING 899</td>
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<td># 10 X 1 1/2” METAL SCREW</td>
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<td>2” X 1/8” SPACER</td>
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**Material List and Glazing Details**

- **3/16" H.S. Glass**
- **3/16" H.S. Glass**
- **0.609" Sentryglas Plus Interlayer by Kuraray America Inc.**
- **Glazing Detail Glass Type 1**
- **Glazing Detail Glass Type 2**
- **Interior**
- **Exterior**
- **Double Face Glazing Tape**
- **Dow Corning 899**
- **Silicone**
- **Aluminum (6063-T5) Spacer**

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**Sunshine Windows Manufacturing, Inc.**
1745 W. 3rd Phone
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**Series 2011 Aluminum French Door with Sidelites**

**LARGE MISSILE IMPACT RESISTANT**

**FRANCO HERNANDEZ**

**PROFESSIONAL ENGINEER**

**No. 51393**

**DRAWING No.**

**STATE OF FLORIDA PE # 51393**

**PRODUCT REVISION**

**DATE: 05/17/16**

**SCALE: N.T.S.**

**Sheet 18 of 20**
TYPICAL SECTIONS AT DOOR FRAME HEAD ATTACHMENT TO DIFFERENT SUBSTRATES
TYPICAL SECTIONS AT SIDELITE HEAD ATTACHMENT TO DIFFERENT SUBSTRATES

EXTERIOR

INTERIOR

SIDELITE HEAD ATTACHMENT TO CONCRETE THROUGH 1" WOOD BUCK

5/16" ULTRACON (Fy=155 ksi, Fu=188 KSI) WITH 1 3/4" MIN. EMBEDMENT INTO CONCRETE. FOR MAX. ANCHOR SPACING SEE HEAD/THRESHOLD CLUSTER DETAILS ON SHEET 5 OF 26.

NOTE:
FOR SUBSTRATES DESCRIPTION REFER TO GENERAL NOTES 6, 7, 8 AND 9 ON SHEET 1 OF 26.

EXTERIOR

INTERIOR

SIDELITE HEAD ATTACHMENT TO WOOD

1/4" # NMLK- FLEX OR DRL-FLEX OR 5 SELF DRILLING SCREWS THROUGH METAL WITH MIN. 3 THREADS BEYOND THE SUBSTRATE. FOR MAX. ANCHOR SPACING SEE HEAD/THRESHOLD CLUSTER DETAILS ON SHEET 5 OF 26.

MAM-DADE COUNTY APPROVED MULLION WITH 1/8" MIN. THICKNESS (UNDER SEPARATE NOA) ON METAL STRUCTURE WITH 1/8" MIN. THICKNESS BY OTHERS. MINIMUM ALUMINUM ALLOY 6063-76 OR A-36 STEEL SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.

EXTERIOR

INTERIOR

SIDELITE HEAD ATTACHMENT TO METAL STRUCTURE/MULLION

5/16" ULTRACON (Fy=155 ksi, Fu=188 KSI) WITH 1 3/8" MIN. EMBEDMENT INTO WOOD. FOR MAX. ANCHOR SPACING SEE HEAD/THRESHOLD CLUSTER DETAILS ON SHEET 5 OF 26.

WOODEN STRUCTURE BY OTHERS MUST BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
TYPICAL SECTIONS AT DOOR FRAME JAMB ATTACHMENT TO DIFFERENT SUBSTRATES

1. **Wooden Structure by Others**
   - Must be properly attached to transfer glazing system loads to the structure and approved by building official prior to door installation.

2. **5/16" # Ultracoon (Fy=155 ksi, Fu=188 ksi) with 1 3/4" Min. Embedment into Concrete/Grount Filled Block Through 1" X Wood Buck**
   - For max. anchor spacing refer to typical elevations on Sheet 4 of 26.

3. **Door Frame Jamb Attachment to Concrete or Grount Filled Block Through 1" X Wood Buck**
   - 1/4" Max. Shim Space

4. **Miami-Dade County Approved Mullion with 1/8" Min. Thickness (Under Separate NoA) or Metal Structure with 1/8" Min. Thickness by Others. Minimum Aluminum Alloy 6063-T6 or A-36 Steel Shall Be Approved by Building Official Prior to Door Installation.**

5. **1/4" Kwik-Flex or Dril-Flex Gr 5 Self Drilling Screws Through Metal with Min. 3 Threads Beyond the Substrate. For Max. Anchor Spacing See Elevations on Sheet 4 of 26.**

6. **Note:**
   - For substrates description refer to general notes 6, 7, 8 and 9 on sheet 1 of 26.

7. **Door Frame Jamb Attachment to Wood**
   - 1/4" Max. Shim Space

8. **DOOR FRAME JAMB ATTACHMENT TO METAL STRUCTURE / MULLION**
   - 1/4" Max. Shim Space

9. **Door Frame Jamb Attachment to Concrete or Grount Filled Block Without Wood Bucks**
   - 1/4" Max. Shim Space

10. **Interior**
**TYPICAL SECTIONS AT SIDELITE JAMBS**

**ATTACHMENT TO DIFFERENT SUBSTRATES**

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**SIDELITE JAMB**

**ATTACHMENT TO CONCRETE**

**OR GROUT FILLED BLOCK THROUGH 1" WOOD BUCK**

**WALK-ON STRUCTURE BY OTHERS MUST BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.**

**5/16" ULTRACON (Fy=155 ksi, Fk=188 ksi) WITH 1 3/4" MIN. EMBRDERED INTO CONCRETE/ GROUT FILLED BLOCK THROUGH 1" WOOD BUCK. FOR MAX. ANCHOR SPACING REFER TO TYPICAL ELEVATIONS ON SHEET 4 OF 26.**

**5/16" ULTRACON (Fy=155 ksi, Fk=188 ksi) WITH 1 3/4" MIN. EMBRDERED INTO CONCRETE/ GROUT FILLED BLOCK. FOR MAX. ANCHOR SPACING REFER TO TYPICAL ELEVATIONS ON SHEET 4 OF 26.**

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**NOTE:**

FOR SUBSTRATES DESCRIPTION REFER TO GENERAL NOTES 5, 7, 8 AND 9 ON SHEET 1 OF 26.
DOOR FRAME STANDARD THRESHOLD ATTACHMENT TO CONCRETE

5/16" ULTRACON (Fy=155 ksi, Fu=188 KSI) with 1 3/4" MIN. EMBEDMENT INTO CONCRETE. FOR MAX. ANCHOR SPACING SEE HEAD/THRESHOLD CLUSTER DETAILS ON SHEET 5 OF 26.

DOOR FRAME STANDARD THRESHOLD ATTACHMENT TO METAL STRUCTURE / MULLION

MAMIE-DADE COUNTY APPROVED MULLION WITH 1/8" MIN. THICKNESS (UNDER SEPARATE NOA) OR METAL STRUCTURE WITH 1/8" MIN. THICKNESS BY OTHERS. MINIMUM ALUMINUM ALLOY 6063-T6 OR A-36 STEEL SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.

1/4" # Kwik-Flex or Dril-Flex or 5 Self Drilling Screws through metal with min. 3 threads beyond the substrate. FOR MAX. ANCHOR SPACING SEE HEAD/THRESHOLD CLUSTER DETAILS ON SHEET 5 OF 26.

EXTERIOR

INTERIOR

EXTERIOR

INTERIOR

NOTE:
1. FOR SUBSTRATES DESCRIPTION REFER TO GENERAL NOTES 6, 7, 8 AND 9 ON SHEET 1 OF 26.
2. STANDARD THRESHOLD SHALL BE USED WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

WOODEN STRUCTURE BY OTHERS MUST BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.

5/16" ULTRACON (Fy=155 ksi, Fu=188 KSI) with 1 7/8" MIN. EMBEDMENT INTO WOOD. FOR MAX. ANCHOR SPACING SEE HEAD/THRESHOLD CLUSTER DETAILS ON SHEET 5 OF 26.

DOOR FRAME STANDARD THRESHOLD ATTACHMENT TO WOOD

4 3/8"

3 1/8" MIN

EDGE DISTANCE

TYPICAL SECTIONS AT STANDARD DOOR THRESHOLD ATTACHMENT TO DIFFERENT SUBSTRATES
**TYPICAL SECTIONS AT HANDICAP THRESHOLD ATTACHMENT TO DIFFERENT SUBSTRATES**

**EXTerior**

1. **A.D.A. COMPLIANT**
   - Door Frame Handicap Threshold Attachment to Concrete

2. For 1/4" shim space, use non-shrink, non-metallic 5 KSI hydraulic cement cured and hardened grout continuously along the threshold.

3. 5/16" # ULTRA-CON (fy=155 ksi, fu=188 KSI) with 1 3/4" min. embedment into concrete for max. anchor spacing.

**INTERIOR**

**EXterior**

1. **A.D.A. COMPLIANT**
   - Door Frame Handicap Threshold Attachment to Metal Structure/Mullion

2. Miami-Dade County approved mullion with 1/8" min. thickness (under separate NOA) or metal structure with 1/8" min. thickness by others. Minimum aluminum alloy 6063-T6 or A-36 steel shall be approved by building official prior to door installation.

3. 1/4" # KIN-FLEX or DRU-FLEX or 5 self-drilling screws through metal with min. 3 threads beyond the substrate. For max. anchor spacing see head/threshold cluster details on Sheet 5 of 26.

4. **NOTE:**
   - 1. For substrates description refer to General Notes 6, 7, 8 and 9 on Sheet 1 of 26.

**INTERIOR**

**EXterior**

1. **A.D.A. COMPLIANT**
   - Door Frame Handicap Threshold Attachment to Wood

2. Optional waterproofing: waterproofing design, material and installation by others.

3. Wooden structure by others must be properly attached to transfer clazing system loads to the structure and approved by building official prior to door installation. 5/16" # ULTRA-CON (fy=155 ksi, fu=188 KSI) with 1 7/8" min. embedment into wood for max. anchor spacing see head/threshold cluster details on Sheet 5 of 26.

**INTERIOR**

**HANDICAP THRESHOLD SHALL NOT BE USED WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.**

**PRODUCT REVISED**
- As complying with the Florida Building Code
- Expiration Date: 12-15-12

**LICENSE No.** 51393
- Florida, PE

**DATE:** 03/17/16
- N.T.S.

**DRAWING No.** FD01-15
- SCALE: 1/4" = 1'-0"

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**FRANCISCO HERNANDEZ**
- PROFESSIONAL ENGINEER
- LICENSE No. 51393

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**FRANCISCO HERNANDEZ**
- FLORIDA, PE No. 51393
- FRANCISCO HERNANDEZ

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**No. 51393**
- STATE OF FLORIDA

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**PRODUCT REVISED**
- As complying with the Florida Building Code
- Expiration Date: 12-15-12

**LICENSE No.** 51393
- Florida, PE

**DATE:** 03/17/16
- N.T.S.

**DRAWING No.** FD01-15
- SCALE: 1/4" = 1'-0"
TYPICAL SECTIONS AT SIDELITE SILL
ATTACHMENT TO DIFFERENT SUBSTRATES