DePARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

WinDoor, Incorporated
7500 Amsterdam drive
Orlando, Florida, 32832

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.


APPROVAL DOCUMENT: Drawing No. 08-00943, titled "8100 Series Alum SGD, Non-Impact, Reinforced & Non-reinforced", sheets 1 through 27 of 27 (including 5A, 6A, 7A, 14A, 18A, 20A, 21A & 22A), prepared by manufacturer, dated 02/04/10 and last revised on 06/27/2018, signed and sealed by Luis R. Lomas, 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: None. Approved Hurricane Protection devices, complying w/ FBC are required.

Limitations:
1. See Design Pressures Vs sizes, reinforcements, sill adapters & glass types in sheets 1 through 5, 5A, 6, 6A, 7 & 7A.
2. See anchors requirement in sheets 8 and 9. Two (2) anchors (applicable to 2 & 3-tracks) and Three (3) anchors (applicable to 5-tracks) system at each anchor location shown at head, sill and jams, except one (1) anchor at each pocket (hook-strips jamb) required. See anchor lay out 2, 3 and 5-tracks in sheet 10.
3. See fixed panel attachment to frame jams or intermediate panels in sheet 14. The Z-clip (item #85) at frame jamb and/or at intermediate butt stile interlock, additionally the head cover item #48 and sill cover item #49 are required.
4. Vinyl item # 51 & 52 (TP-1051) of B.O.M. shall meet material properties listed per Bayshore vinyl compound BVC 7200-70, manufactured by Team Plastics.

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 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 # 15-0723.13 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by Ishaq L. Chanda, P.E.

MIAMI-DADE COUNTY
APPROVED

NOA No. 17-1219.10
Expiration Date: June 23, 2021
Approval Date: August 16, 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. 08-00943, titled "8100 Series Alum SGD, Non-Impact, Reinforced & Non-reinforced", sheets 1 through 27 of 27, including sheets 5A, 6A, 7A, 14A, 18A, 20A, 21A & 22A, prepared by manufacturer, dated 02/04/09 and last revised with Revision C dated 06/15/15, 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
      4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
      Along with marked-up drawings and installation diagram of Aluminum Sliding Glass, prepared by National Certified Testing Laboratories Inc., Test Report No. NCTL-210-3570-1, and NCTL-210-3570-2, both dated 12/01/09 and revised and reissued on 02/04/11, both signed & sealed by Gerald J. Ferrara, P.E.
      (Note: This test reports have addendum letters dated 08/16/10, issued by National Certified Testing Laboratories Inc., signed & sealed by Gerald J. Ferrara, P.E.)
   2. The 5-tracks extrusion, die # T-32123, T-32124, T-32125 and T-32125D per RER e-mail dated 02-26-15.

C. CALCULATIONS
   1. Anchor verification calculations, complying with FBC-2014, dated 06/18/15 and last revised on 03/15/16, prepared, signed and sealed by Luis R. Lomas, P.E.
   2. Glazing complies with ASTME-1300-02 &-04.

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

E. MATERIAL CERTIFICATIONS

F. STATEMENTS
   1. Statement letter of conformance to FBC 2014 (5th Edition) and "No financial interest", dated 06/08/15, prepared, signed and sealed by Luis R. Lomas, P.E.
   2. Test lab compliance statement, part of the above referenced reports.

Ishaq L. Chanda, P.E.
Product Control Examiner
NOA No. 17-1219.10
Expiration Date: June 23, 2021
Approval Date: August 16, 2018
WinDoor, Incorporated

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER
1. This NOA revises NOA # 12-0130.15, expiring on June 23, 2021.
2. Test Proposals # 07-3147, dated Feb. 07, 2008 approved by BCCO.


A. DRAWINGS
1. Drawing No. 08-00943, titled “8100 Series Alum SGD, Non-Impact, Reinforced & Non-reinforced”, sheets 1 through 27 of 27, prepared by manufacturer, dated 02/04/10 and last revised on 06/27/2018, prepared, signed and sealed by Luis R. Lomas, P.E.

B. Test
1. None.

C. CALCULATIONS
1. Anchor verification dated 11/30/17 complying w/ FBC 2017 (6th Edition), prepared, signed and sealed by Luis R. Lomas, P.E.

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

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS

G. OTHER
1. This NOA revises # 15-0723.12, expiring 06/23/21.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-1219.10
Expiration Date: June 23, 2021
Approval Date: August 16, 2018
8100 SERIES 4'-0" x 10'-0" NON-IMPACT SGD

Typical Elevation Exterior View

(6) Panels shown. Unlimited number of panels in unlimited configurations is applicable as long as individual panel size does not exceed maximum panel size and use vertical conditions as shown. Not to exceed 3600 lbs of frame area.

Non-Reinforced Unit with Sill Riser #34

Design Pressure Rating | Impact Rating
-----------------------|-----------------
≤50.0 PSF              | None

For wood, masonry/concrete and metal installation for additional sizes see sheet 7.

Reinforced Unit with Sill Riser #36 and #37

Design Pressure Rating | Impact Rating
-----------------------|-----------------
≤100.0 PSF             | None

For masonry/concrete and metal installation for additional sizes see sheet 7.

Pocket Wall Under Separate Approval, To Be Reviewed by AHU.

Roller Adjustment Hole, Typical.

Notes:

1. The product shown herein is designed and manufactured to comply with requirements of the Florida Building Code 6th Edition (2017).

2. Wood framing/1x or 2x lumber, 20 GA. 2x wood backed steel stud or masonry/concrete opening to be designed and anchored to properly transfer all loads to structure. Wood framing/1x or 2x lumber, 20 GA. 2x wood backed steel stud or masonry/concrete opening is the responsibility of the architect or engineer of record.

3. Allowable stress increase of 1/3 was not used in the design of the product shown herein. Wind load duration factor C_{d}=1.6 was used for wood anchor calculations.

4. Frame material: extruded aluminum 6063-T6 0.25" thick.

5. Units must be glazed 1/4" tempered or 1/1 IGU tempered per ASME E1100. See glazing details sheet 12.

6. Approved impact protective system is required for this product in windborne debris regions.

7. Approved to be installed on 1 2-track, 3 track, 4 track or 5 track frame system with or without pockets.

Panel Height and D.L.O. Formula

Panel Height = Frame Height - 1 9/16
D.L.O. Height = Panel Height - 9 25/32
D.L.O. Width = Nominal Panel Width - 9 1/4

WinDoor Incorporated
7500 AMSTERDAM DRIVE
ORLANDO, FL 32833
Phone: 407-825-5400
Fax: 407-825-5500
www.windoorinc.com

8100 SERIES ALUMINUM SGD NON-IMPACT REINFORCED & NON-REINFORCED 4'-0" x 10'-0" PANELS 2 TRACK ELEVATION

SIGNED: 06/27/2018

LUI R. LOMAS
INTEGRATED PROFESSIONAL ENGINEERING
No. 62514
8100 SERIES 5'0" x 8'2" NON-IMPACT SGG

TYPICAL ELEVATION EXTERIOR VIEW

(6) PANELS SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS IS APPLICABLE AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE AND USE VERTICAL CONDITIONS AS SHOWN. NOT TO EXCEED 366FT² OF FRAME AREA

NOTE: MAXIMUM AREA OF ALTERNATE SIZES MUST NOT EXCEED FRAME AREA OF 3600FT², FEET.

Design Pressure Rating:
- ±50.0PSF
- ±100.0PSF

Impact Rating:
- NONE
- NONE

FOR WOOD, MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7

SIGNED: 06/27/2018

PANEL HEIGHT AND D.L.O. FORMULA
PANEL HEIGHT = FRAME HEIGHT - 1 9/16" 
D.L.O. HEIGHT = PANEL HEIGHT - 9 25/32"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 9 1/4"
8100 SERIES 5'0" x 8'2" NON-IMPACT SGD
TYPICAL ELEVATION EXTERIOR VIEW

NOTE:
MAXIMUM AREA OF ALTERNATE SIZES MUST NOT EXCEED FRAME AREA OF 360 sq. ft.

8100 SERIES 5'0" x 8'2" NON-IMPACT NON-REINFORCED SGD
3 TRACK LAYOUT
NON-REINFORCED UNIT WITH SILL RISER #36 AND #37

FOR WOOD, MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7

8100 SERIES 5'0" x 8'2" NON-IMPACT REINFORCED SGD
3 TRACK LAYOUT
REINFORCED UNIT WITH SILL RISER #36 AND #37

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7A
8100 SERIES 40" x 10' NON-IMPACT SGD
TYPICAL ELEVATION EXTERIOR VIEW

NOTE:
MAXIMUM AREA OF ALTERNATE SIZES MUST NOT EXCEED FRAME AREA OF 360 sq. FEET.

6" TO FIRST WEEP SLOT
WEEP SLOT 1" x 1875" TYP. LOCATED AT ALL VERTICAL CENTER LINES

118 7/16" MAX. PANEL HEIGHT
108.21/32" MAX. D.L.O. HEIGHT
120" MAX. FRAME HEIGHT

8100 SERIES 40" x 10' NON-IMPACT NON-REINFORCED SGD
4 TRACK LAYOUT
NON-REINFORCED UNIT WITH SILL RISER #34

DESIGN PRESSURE RATING | IMPACT RATINGS
--------------------------|---------------------
±50.0PSF | NONE

FOR WOOD, MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7

8100 SERIES 40" x 10' NON-IMPACT REINFORCED SGD
4 TRACK LAYOUT
REINFORCED UNIT WITH SILL RISER #36 AND #37

DESIGN PRESSURE RATING | IMPACT RATING
--------------------------|---------------------
±100.0PSF | NONE

FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7A

SIGNED: 06/27/2018
8100 SERIES 40' x 10' NON-IMPACT SGD

Typical Elevation Exterior View

286 25/32" OVERALL TESTED FRAME WIDTH
48" NOMINAL MAX. PANEL WIDTH
40" MAX. D.L.O. WIDTH

120" MAX. FRAME HEIGHT
118 7/18" MAX. PANEL HEIGHT
108 21/32" MAX. D.L.O. HEIGHT

6" TO FIRST WEEP SLOT

WEEP SLOT 1" x 1875" TYP. LOCATED AT ALL VERTICAL CENTER LINES

REINF.

8100 SERIES 40' x 10' NON-IMPACT NON-REINFORCED SGD

5 TRACK LAYOUT

NON-REINFORCED UNIT WITH SILL RISER #28

DESIGN PRESSURE RATING IMPACT RATING
±50.0PSF NONE

FOR WOOD, MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7

8100 SERIES 40' x 10' NON-IMPACT REINFORCED SGD

5 TRACK LAYOUT

REINFORCED UNIT WITH SILL RISER #28 AND #37

DESIGN PRESSURE RATING IMPACT RATING
±100.0PSF NONE

FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7A

NOTE:
MAXIMUM AREA OF ALTERNATE SIZES MUST NOT EXCEED FRAME AREA OF 3600 sq. FEET.

8100 SERIES ALUMINUM SGD NON-IMPACT
REINFORCED & NON-REINFORCED
4'0" x 10'0" PANELS 4TRACK ELEVATION

SIGNED: 06/27/2018

WinDoor
INCORPORATED
7506 AMSTERDAM DRIVE
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Fax 407-451-4858
www.windoorinc.com

LUIS R. LOMAS
STATE OF FLORIDA
NO. 62514
PROFESSIONAL ENGINEER

Dwg. 08-00943
Rev. D
Sheet 5A of 27
8100 SERIES 50' x 82' NON-IMPACT SGD
TYPICAL ELEVATION EXTERIOR VIEW

NOTE:
MAXIMUM AREA OF ALTERNATE SIZES MUST NOT EXCEED FRAME AREA OF 360 sq. FEET.

8100 SERIES 50' x 82' NON-IMPACT NON-REINFORCED SGD
4 TRACK LAYOUT
NON-REINFORCED UNIT WITH SILL RISER #36

DESIGN PRESSURE RATING IMPACT RATING
±100.0PSF NONE

FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7

8100 SERIES 50' x 82' NON-IMPACT REINFORCED SGD
4 TRACK LAYOUT
REINFORCED UNIT WITH SILL RISER #36 AND #37

DESIGN PRESSURE RATING IMPACT RATING
±61.4PSF NONE

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7A

SIGNED: 06/27/2018
8100 SERIES 50 x 82 NON-IMPACT SGD

5 TRACK LAYOUT

NON-REINFORCED UNIT WITH SILL RISER #36

DESIGN PRESSURE RATING \ IMPACT RATING

\+100.0PSF  NONE

FOR WOOD, MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7

8100 SERIES 50 x 82 NON-IMPACT REINFORCED SGD

REINFORCED UNIT WITH SILL RISER #36 AND #37

DESIGN PRESSURE RATING \ IMPACT RATING

\+100.0PSF  NONE

FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 7

8100 SERIES 50 x 82 NON-IMPACT SGD

TYPICAL ELEVATION EXTERIOR VIEW

6" TO FIRST WEEP SLOTT

NOTE:
MAXIMUM AREA OF ALTERNATE SIZES MUST NOT EXCEED FRAME AREA OF 360 sq. ft.
### REINFORCED UNITS DESIGN PRESSURE CHARTS
**MASONRY/CONCRETE AND METAL INSTALLATION**

#### Maximum design pressure capacity chart (PSF)

**Series 8100 Aluminum Non-impact Reinforced SGD with 3" sill riser, item 935 & 2T Retro SSI, item 70**

<table>
<thead>
<tr>
<th>Height (in)</th>
<th>24.0</th>
<th>30.0</th>
<th>36.0</th>
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#### Maximum design pressure capacity chart (PSF)

**Series 8100 Aluminum Non-impact Reinforced SGD with 3 1/2" sill riser, item 935 & 2T Retro SSI, item 70**

<table>
<thead>
<tr>
<th>Height (in)</th>
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### NON-REINFORCED UNITS DESIGN PRESSURE CHARTS
**WOOD, MASONRY/CONCRETE AND METAL INSTALLATION**

#### Maximum design pressure capacity chart (PSF)

**Parameters**
- For units installed in Wood, Masonry/Concrete or Metal structure

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#### Maximum design pressure capacity chart (PSF)

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### NOTE
- **APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY AHJ**

---

### PANEL HEIGHT AND D.L.O. FORMULA
- **Panel Height** = Frame Height - 1 9/16"  
- **D.L.O. Height** = Panel Height - 9 25/32"  
- **D.L.O. Width** = Nominal Panel Width - 9 1/4"  

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**8100 SERIES ALUMINUM SGD NON-IMPACT REINFORCED & NON-REINFORCED DESIGN PRESSURE CHARTS**

**WinDoor INCORPORATED**

**5700 AMSTERDAM DRIVE ORLANDO, FL 32832**


**www.windoorco.com**

**SIGNED: 06/27/2018**
# Reinforced Units Design Pressure Charts

## Wood Installation

### Maximum Design Pressure Capacity Chart (PSF)

**Series 8100 Aluminum Non-Impact Reinforced SG0 with 3\(\frac{1}{2}\)" All-Riser, Item 935 & 27 Retro Stil, Item 70**

**Nominal Single Panel Width (in)**

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<thead>
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<th>Height (in)</th>
<th>24.0</th>
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### Maximum Design Pressure Capacity Chart (PSF)

**Series 8100 Aluminum Non-Impact Reinforced SG0 with 3\(\frac{1}{2}\)" All-Riser, Item 936 & 27 Retro Stil, Item 70**

**Nominal Single Panel Width (in)**

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### Maximum Design Pressure Capacity Chart (PSF)

**Series 8100 Aluminum Non-Impact Reinforced SG0 with 4\(\frac{1}{2}\)" All-Riser, Item 637**

**Nominal Single Panel Width (in)**

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<td>113.8</td>
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### Note:

Applicable egress requirements to be reviewed by AHJ.

---

**Panel Height and D.O.I. Formula**

Panel Height = Frame Height - 1\(\frac{1}{2}\)/16"  
D.O.I. Height = Panel Height - 9\(\frac{1}{2}\)/32"  
D.O.I. Width = Nominal Panel Width - 9\(\frac{1}{4}\)/"
ANCHORING NOTES:
1. 2 TRACK, 3 TRACK AND 4 TRACK SYSTEMS HAVE TWO ANCHORS PER LOCATION. 5 TRACK SYSTEM HAS THREE ANCHORS PER LOCATION. AT HEAD, SILL, AND JAMB.
2. ALL FRAME SYSTEMS, 2 TRACK, 3 TRACK, 4 TRACK AND 5 TRACK, HAVE ONE ANCHOR AT EACH LOCATION IN HOOK STRIP.
3. FOR ANCHORING INTO MASONRY/CONCRETE THROUGH A PROPERLY SECURED 1X NON-STRUCTURAL WOOD BUCK USE 1/4" ELO CRETE-FLEX WITH SUFFICIENT LENGTH TO ACHIEVE A 1/16" MINIMUM ENDMEETING INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE AND 2 3/8" MINIMUM SEPARATION. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. FOR ANCHORING INTO WOOD FRAME, 2X BRACE OR 2X WOOD BACKED 20 GA. MINIMUM STEEL STUD USE GRADE 5 1/4 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM ENDMEETING INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
5. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR kB WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE LOAD BEARING SHIM TO BE 1/4".
6. ALL FASTENERS TO BE CORROSION RESISTANT.
7. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW.
   A. WOOD - MINIMUM SPECIFIC GRADE OF 0.42
   B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2,700 PSI.
   C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 OR GREATER.
   D. METAL FRAMEING - 20 GA (0.040) MINIMUM THICKNESS WITH 2X WOOD BACKING, 5X=33KSF/ Su=52KSI MINIMUM.
8. EXAMPLE OF MULTI-PANEL UNIT:
   MAXIMUM FRAME AREA NOT TO EXCEED 3600F²;
   PANEL WIDTH: 54" FRAME HEIGHT: 108";
   H/S INTMD: 3 (LOCATIONS) X 2 (ANCHORS) = 6 TOTAL PER PANEL;
   CLUSTER (INTERLOCK/ASTRAL): 6 (LOCATIONS) X 2 (ANCHORS) = 12 TOTAL;
   JAMB: 7 (LOCATION) X 2 (ANCHORS) = 14 ANCHORS PER JAMB;
   POCKET JAMB: 10 (LOCATION) X 1 (ANCHOR) = 10 ANCHORS/POCKET JAMB.

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SIGNED: 06/27/2018

WinDoot Incorporated
8100 SERIES ALUMINUM SGD NON-IMPACT REINFORCED & NON-REINFORCED 4' X 10'0" ANCHORING AND NOTES

Received by: T.J. 08-00843
Date: 02/04/10
Page: 8 of 27
ANCHORING NOTES:
1. TRACK, 3 TRACK AND 4 TRACK SYSTEMS HAVE TWO ANCHORS PER LOCATION. 5 TRACK SYSTEM HAS THREE ANCHORS PER LOCATION, AT HEAD, SILL AND JAMB.
2. ALL FRAME SYSTEMS, 2 TRACK, 3 TRACK 4 TRACK AND 5 TRACK, HAVE ONE ANCHOR AT EACH LOCATION IN HOOK STRIP.
3. FOR ANCHORING INTO MASONRY/CONCRETE THROUGH A PROPERLY SECURED NON-STRUCTURAL WOOD BUCK USE 1 1/4 TDL ORETE-FLEX WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM Embedment INTO SUBSTITUTE WITH 2 1/2" MINIMUM Edge Distance AND 2 3/8" MINIMUM Separation. Locate Anchors AS Shown in Elevations and Installation Details.
4. FOR ANCHORING INTO WOOD FRAMING, 2X BUCK OR 2X WOOD BACKED 20 GA. MINIMUM STEEL STUD USE GRADE 5 8" WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM Embedment INTO SUBSTITUTE. Locate Anchors AS Shown in Elevations and Installation Details.
5. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE LOAD BEARING SHIM TO BE 1/4".
6. ALL FASTENERS TO BE CORROSION RESISTANT.
7. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
   - WOOD: MINIMUM SPECIFIC GRAVITY OF 0.642
   - CONCRETE: MINIMUM COMpressive STRENGTH OF 2,700 PSI
   - MASONRY: STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
8. EXAMPLE OF MULTI-PANELS UNIT
   MAXIMUM FRAME AREA NOT TO EXCEED 3600 FT^2:
   PANEL WIDTH: 60" FRAME HEIGHT: 98"
   H/S INTM: 3 (LOCATIONS) X 2 (ANCHORS) + 6 TOTAL PER PANEL
   CLUSTER (INTER/DIC/ASTRAGAL): 6 (LOCATIONS) X 2 (ANCHORS) = 12 TOTAL JAMB: 7 (LOCATION) X 2 (ANCHORS) = 14 ANCHORS PER JAMB
   POCKET JAMB: 9 (LOCATION) X 1 (ANCHOR) = 9 ANCHORS/POCKET JAMB

Number of anchor locations required at jamb, head, sill and mullion cluster (2 anchors per location)

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Number of anchor locations required at hookstrip (1 anchor per location)

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VERTICAL CONDITION

CLUSTER DETAIL
2-TRACK SYSTEM

2 3/8" SEPARATION
4 3/4" MAX.
4 3/4" MAX.
4 3/4" MAX.
4 3/4" MAX.
4 3/4" MAX.

2 3/16" SEPARATION
4 9/16" SEPARATION
4 13/16" SEPARATION
4 15/32" SEPARATION

2 TRACK
3 TRACK
4 TRACK
5 TRACK

HEAD & SILL ANCHOR LOCATIONS
SEE DETAILS IN SHEETS 20, 20A, 21, 21A, 22 AND 22A

SEE SHEETS 8 & 9 FOR CLUSTER ANCHORS REQUIRED AT INTERLOCK AND ASTRAGAL.

CLUSTER DETAIL
3-TRACK SYSTEM

4 3/4" MAX.
4 3/4" MAX.
4 3/4" MAX.
4 3/4" MAX.
4 3/4" MAX.

7 1/8" SEPARATION
4 23/32" MAX.
4 25/32" MAX.

CLUSTER DETAIL
4-TRACK SYSTEM

6 VERTICAL CONDITION

CLUSTER DETAIL
5-TRACK SYSTEM

JAMB ANCHOR LOCATIONS
SEE DETAILS IN SHEETS 20, 20A, 21, 21A, 22 AND 22A

APPROVED SILL RISER OPTIONS

NOTES:
1. MINIMUM (2) ANCHORS IN PAIR REQUIRED AT EACH SIDE OF CENTERLINE OF EACH PANEL.
2. SEE MIN INTERMEDIATE (H&G INTMD) ANCHORS IN CHARTS, SHEETS 8 & 9, AT EACH SIDE OF CENTERLINE OF EACH PANEL.

PANEL CONSTRUCTION:
ALL PANELS ARE CONSTRUCTED FROM EXTRUDED 6063-T6 ALUMINUM. VERTICAL STILES ARE NOTCHED TO RECEIVE HORIZONTAL RAILS. EACH RAIL IS SECURED TO STILES WITH (3) #10 x 1 1/4" S0. DRIVE SCREW AT EACH END. ITEM #47. ALL PANELS HAVE AN INTERIOR AND EXTERIOR APPLIED GLAZING STOP.

FRAME CONSTRUCTION:
EACH FRAME CORNER IS NOTCHED AND BUTTED. HEAD AND SILL ARE SECURED TO JAMBS WITH #7 TYPE A SS SCREW, ITEM #48, (2) AT EACH CORNER ON 2 TRACK, (2) AT 3 TRACK FRAME, (3) AT EACH CORNER ON 4 TRACK FRAME AND (3) AT EACH CORNER ON 5 TRACK FRAME.

WinDoor Incorporated
7500 Amsterdam Drive
Orlando, FL 32832
Phone: 407-495-6550
Fax: 407-540-3071
www.Windoorinc.com

8100 SERIES ALUMINUM SGD NON-ImpACT
REINFORCED & NON-REINFORCED ANCHORING DETAILS AND NOTES

SIGNED: 06/27/18

Luis R. Lomas
State of Florida
No. 62514

TJH
08-00943
02/04/10
SHEET 10 OF 27
### Parts List

<table>
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#### Screen Spline
- TP875: 1/4" Glazing Vinyl - Vinyl
- TP1251: 1" Glazing Vinyl - Vinyl
- #1988-9000: Tandem Roller
- 2468: Dual Point Mortise Lock & Keeper

#### Glass Setting Block
- TP990: Glass Setting Block

#### Interlock Bumper
- TP876: Rubber

#### Finseal
- W33017X0000: Finseal 187 x .350
- W332217X0000: Finseal 187 x .240
- W33147X0000: Finseal 187 x .140

#### Screws
- 131017: #8 x 1/2" ph tek screw
- S-44115: 2 Track NS insert - KEYMARK ALUMINUM 6063-16
- 131018: #8 x 3/8" ph type b ss
- 131004: #10 x 1 1/4" type f ss
- 131020: #8 x 5/8" ph type a ss
- 131011: #8 x 2" ph tek screw
- 131009: #10 x 3/4" ph tek screw

#### Snap-in Sill Gasket
- LC05088-NS: Snap-in Sill Gasket - Plastic

#### Glazing Compound
- SW2FAST 552: Glazing Compound - Sika Urethane

#### Track Sill Pan
- 1-32122: Track Sill Pan - KEYMARK ALUMINUM 6063-16
- S-44120: Track NS/WS Retro Sill Pan - KEYMARK ALUMINUM 6063-16

#### Non-Impact Glazing See Sheet 12

### Exterior

#### GLAZING TYPE A

#### Exterior

#### GLAZING TYPE B

1/4" tempered
NOTE:
SEE SHEETS 20, 21, 22 AND 23 FOR TYPICAL ANCHORAGE TO VARIOUS SUBSTRATE MATERIALS. A SPECIFIC SUBSTRATE IS INDICATED ON EACH HEAD, SILL AND JAMB TRACK SYSTEM. OTHER HEAD, SILL AND JAMB TRACK SYSTEMS ARE SIMILAR.

SECTION A
2 TRACK WS FRAME SYSTEM WITH 3" SILL RISER SHOWN, 2 TRACK NS, 2 TRACK WS RETRO AND 2 TRACK NO RETRO SILLS AND ALL SILL RISERS MAY BE USED

SECTION B
3 TRACK FRAME SYSTEM WITH 1 1/4" SILL RISER SHOWN. ALL SILL RISERS MAY BE USED

SECTION C
4 TRACK FRAME SYSTEM WITH 3" SILL RISER SHOWN. ALL SILL RISERS MAY BE USED

SIGNED: 06/27/2018
SECTION D
PLAIN STILE AT 3 TRACK JAMB

SECTION G
REINFORCED NON-REINFORCED INTERLOCK STILE AT EXTERIOR HOOK STRIP

SECTION F
LOCK STILE AT 2 TRACK JAMB

SECTION E
LOCK STILE AT 4 TRACK JAMB

FIXED PANEL NOTES:
1. FIXED PANEL TO JAMB CONDITION:
   FIXED PANEL IS SEURRED TO THE JAMB WITH (2) ITEMS #85, FIXED PANEL Z-CLIP. ONE Z-CLIP IS
   LOCATED 24" FROM TOP OF THE PANEL DOWN AND 24" FROM BOTTOM OF PANEL UP. EACH Z-CLIP
   IS ATTACHED TO PANEL WITH (3) ITEM #84, #10 x 3/4" PH TEK SCREWS AND THEN IT IS
   ATTACHED TO JAMB WITH (3) ITEM #84, #10 x 3/4" PH TEK SCREWS. SECTION D SHEET 14,
   SECTION ED SHEET 18 AND SECTION Z SHEET 18 SHOW A FIXED PANEL TO JAMB CONDITION.

2. FIXED PANEL TO FIXED PANEL CONDITION:
   TWO FIXED PANELS ARE SECURED TOGETHER WITH ITEM #83, #8 x 3/4" PH TEK SCREW. THERE IS
   A ROW ON THE INTERIOR AND A ROW ON THE EXTERIOR OF THE FIXED PANEL PARED 4" FROM
   THE TOP AND BOTTOM WITH ONE ADDITIONAL SCREW IN THE CENTER. SECTION D SHEET 14, SECTION DD
   SHEET 19, SECTION D SHEET 15, SECTION L SHEET 16 AND SECTION CC SHEET 19 SHOW A
   FIXED PANEL TO FIXED PANEL CONDITION.

NOTE:
SEE SHEETS 20, 21, 22 AND 23 FOR TYPICAL ANCHORAGE TO VARIOUS SUBSTRATE MATERIALS, A
SPECIFIC SUBSTRATE IS INDICATED ON EACH HEAD, SILL AND JAMB TRACK SYSTEM. OTHER HEAD,
SILL AND JAMB TRACK SYSTEMS ARE SIMILAR.
SECTION E
LOCK STILE AT 5 TRACK JAMB

5 TRACK FRAME SYSTEM WITH 3½" SILL RISER SHOWN. ALL SILL RISERS MAY BE USED
SEE O.P. TABLE SHEETS 7 & 7A

NOTE:
SEE SHEETS 20A, 21A, 22A AND 23 FOR TYPICAL ANCHORAGE TO
VARIOUS SUBSTRATE MATERIALS. A SPECIFIC SUBSTRATE IS
INDICATED ON EACH HEAD AND TRACK SYSTEM.
SECTION BB
5 TRACK FRAME SYSTEM
SEE D.P. TABLE SHEETS 7 & 7A

SECTION Z
FIXED PANEL AT 5 TRACK JAMB
1X BUCK BY OTHERS, 1X BUCK TO BE PROPERLY SECURED (SEE NOTE 2 SHT. 1)

BACKER ROD AND APPROVED SEALANT BY OTHERS

1/4" ELCO CRETE-FLEX

FASTENER HEADS TO BE COVERED WITH APPROVED SEALANT

1/4" ELCO CRETE-FLEX

SILL TO BE SET IN BED OF APPROVED SEALANT OR NON-SHRINK GROUT

MASONRY/CONCRETE BY OTHERS

1/4" MAX. SHIM

1/4" ELCO CRETE-FLEX

SEE NUMBER OF ANCHORS REQUIRED AT JAMBS PER TABLE SHEETS 8 & 9

1 1/4" MIN. EMBEDMENT

1/4" MAX. SHIM

1 1/4" MIN. EMBEDMENT

1/4" MAX. SHIM

2 3/8" MIN. EMBEDMENT

2 1/2" MIN. EDGE DIST.

2 1/2" MIN. EDGE DIST.

2 3/16" MIN. SEPARATION

2 3/16" MIN. SEPARATION

2 TRACK FRAME VERTICAL INSTALLATION

MASONRY/CONCRETE INSTALLATION

INTERIOR

EXTERIOR

FASTENER HEADS TO BE COVERED WITH APPROVED SEALANT

BACKER ROD AND APPROVED SEALANT BY OTHERS

1X BUCK BY OTHERS, 1X BUCK TO BE PROPERLY SECURED (SEE NOTE 2 SHT. 1)

NOTE:
CONCRETE SUBSTRATE INSTALLATION FOR 2 TRACK SHOWN.
ANCHORAGE SIMILAR FOR 3 TRACK AND 4 TRACK SYSTEMS.
SEE SHEET 10 FOR O.C. ANCHOR SEPARATION.

2 TRACK WITH 3" SILL SHOWN 3 TRACK, 4 TRACK &
5 TRACK ARE SIMILAR. ALL APPLICABLE SILL RISERS MAY BE
USED PER PP TABLE SHEETS 7 & 7A.

2 TRACK FRAME JAMB INSTALLATION
1X BUCK TO MASONRY/CONCRETE INSTALLATION.
4 TRACK FRAME JAMB INSTALLATION
WOOD BACKED 20 GA. STEEL STUD INSTALLATION

NOTE:
WOOD BACKED 20 GA. STEEL STUD SUBSTRATE INSTALLATION
FOR 4 TRACK SHOWN. ANCHORAGE SIMILAR FOR 2 TRACK AND
3 TRACK SYSTEMS. SEE SHEET 10 FOR ANCHOR O.C.
SEPARATION.

4 TRACK WITH 3" SILL RISER SHOWN 2 TRACK, 3 TRACK &
5 TRACK ARE SIMILAR. ALL APPLICABLE SILL RISERS MAY BE
USED PER DP TABLE SHEETS 7 & 7A.

1 1/4" MAX. SHIM

1/4" MAX. SHIM

1 3/4" MIN. EMBEDMENT

1 3/4" MIN. EMBEDMENT

1 1/4" MAX. SHIM

SILL TO BE SET IN BED OF APPROVED SEALANT OR
NON-SHRINK GROUT

DOUBLE 2X BACKED 20GA. STEEL FRAMING BY OTHERS
(SEEN NOTE 2 SHT. 1)

FASTENER HEADS TO BE COVERED WITH APPROVED SEALANT

#14 WOOD SCREW

SEEN NUMBER OF ANCHORS REQUIRED AT JAMBS PER TABLE SHEETS 8 & 9

FASTENER HEADS TO BE COVERED WITH APPROVED SEALANT

INTERIOR

EXTERIOR

BACKER ROD AND APPROVED SEALANT BY OTHERS

BACKER ROD AND APPROVED SEALANT BY OTHERS

6 15/16" SEPARATION

1" MIN. EDGE DIST.

1" MIN. EDGE DIST.

1 3/4" MIN. EMBEDMENT

1 3/4" MIN. EMBEDMENT

7 1/8" SEPARATION

7 1/8" SEPARATION