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 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 “8100” Aluminum Sliding Glass Door w/wo 90° & 135° corner & w/wo Reinforcements

APPROVAL DOCUMENT: Drawing No. 08-01172, titled “8100 Series Aluminum 90° & 135° Corner SGD 4’0” x 12’0” and 5’0” x 10’0” Panels - LMI”, sheets 1 through 36 of 36, prepared by manufacturer, dated 01/20/11, with revision C, dated 07/20/17, 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: Large and Small Missile Impact Resistant

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 No. 15-0715.05 and consists of this page 1, and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Jorge M. Plasencia, P.E.

NOA No. 17-0822.02
Expiration Date: November 03, 2021
Approval Date: November 09, 2017
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 11-0208.01)

2. Drawing No. 08-01172, Rev B titled "8100 Series Alum 90° & 135° Corner SGD", sheets 1 through 13A, 13B, 13C, 13D, and 13E through 30 of 30, prepared by manufacturer, dated 01/20/11 and last revised on 06/15/15, signed and sealed by Luis R. Lomas, P.E., on 04/07/16.

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) Small Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per 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. NTCL-210-3643-1 and NTCL-210-3643-2, both dated 01/14/11, and revised and reissued on 07/05/11, both signed and sealed by Gerald J. Ferrera, P.E.

(Note: These test reports have addendum letters dated 06/01/2011, issued by National Certified Testing Laboratories Inc., signed & sealed by Gerald J., Ferrara, P.E.)

(Submitted under NOA No. 11-0208.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, conformance to, complying with FBC 5th Edition (2014), prepared, signed, and sealed by Luis R. Lomas, P.E., dated 07/06/15, 03/09/16 and last revised on 04/26/16.

2. Glazing complies with ASTM E1300–04/09

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 17-0822.02
Expiration Date: November 03, 2021
Approval Date: November 09, 2017
NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their “Sentry Glass® (Clear and White) Interlayer” dated 06/25/15, expiring on 07/04/18.

F. STATEMENTS
1. Statement letter of conformance to, complying with FBC 5th Edition (2014), and of no financial interest, dated 06/08/15, signed and sealed by Luis R. Lomas, P. E.
2. Test lab statement, part of the above referenced test reports.
3. Statement addendum letters dated 06/01/11, issued by National Certified Testing Laboratories, Inc. signed and sealed by Gerald J. Ferrera, P.E.

G. OTHERS
1. Notice of Acceptance No. 12-0130.12, issued to WinDoor, Inc., for their Series “8100” Aluminum Sliding Glass Door w/wo 90° & 135° corner & w/wo Reinforcements, approved on 04/19/12 and expiring on 11/03/16.

2. NEW EVIDENCE SUBMITTED
A. DRAWINGS
1. Drawing No. 08-01172, titled “8100 Series Aluminum 90° & 135° Corner SGD 4’0 x 12’0 and 5’0 x 10’0 Panels - LMI”, sheets 1 through 36 of 36, prepared by manufacturer, dated 01/20/11, with revision C, dated 07/20/17, signed and sealed by Luis R. Lomas, P.E.

B. TESTS
1. None.

C. CALCULATIONS
2. Glazing complies with ASTM E1300-04/09

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

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 17-0822.02
Expiration Date: November 03, 2021
Approval Date: November 09, 2017
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their “SentryGlas® (Clear and White) Interlayer” dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. 17-0712.03 issued to Eastman Chemical Company (MA) for their “Saflex CP-Saflex and Saflex HP Composite Glass Interlayers with PET Core”, dated 09/07/17, expiring on 12/11/18.

F. STATEMENTS

G. OTHERS
1. This NOA revises NOA #15-0715.05, expiring on 11/03/21.

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 17-0822.02
Expiration Date: November 03, 2021
Approval Date: November 09, 2017
NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF 2014 FBC 6th EDITION AND 2017 FRC 6th EDITION, INCLUDING THE MVHR.
2. WOOD FRAMING/ 1X OR 2X BUCK, 20GA, 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 BUCK, 20GA, 2X WOOD BACKED STEEL STUD OR MASONRY/CONCRETE OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR 0.4-1.6 WAS USED FOR WIND ANCHOR CALCULATIONS.
5. FRAME MATERIAL: EXTRUDED ALUMINUM 6063-T6 .075" THICK.
   PANEL MATERIAL: EXTRUDED ALUMINUM 6063-T6 .080" THICK.
6. UNITS MUST BE GLAZED PER ASTM E1300-04a-09 WITH LARGE MISSILE IMPACT GLASS. SEE SHEET 22 FOR GLAZING DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BONNE DESIRS REGIONS.
8. MAXIMUM 4'0" X 12'0" PANEL SIZE: 51 3/4" X 142 1/16".
   MAXIMUM 5'0" X 10'0" PANEL SIZE: 63 3/4" X 118 1/16".
9. MAXIMUM D.A.O. SIZE 4'0" X 12'0" PANEL: 40 1/4" X 132 5/8" (STD. BOTTOM RAIL) OR 129 3/32" (TALL BOTTOM RAIL).
10. MAXIMUM D.A.O. SIZE 5'0" X 10'0" PANEL: 52 1/4" X 106 3/16" (STD. BOTTOM RAIL) OR 105 3/32" (TALL BOTTOM RAIL).

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SIGNED: 10/18/2017
SERIES 8100 4'0" x 12'0" REINFORCED 2 TRACK ALUMINUM 90° CORNER SGD

EXTERIOR VIEW

SEVEN PANELS ON 2 TRACK FRAME SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS, BYPASS OR 90° CORNER, ON 2, 3, 4 OR 5 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE, USES VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 502 SQUARE FEET.

REINFORCED UNIT WITH BILL RISER #34

DESIGN PRESSURE RATING: ±77.0PSF
IMPACT RATING: LARGE MISSILE IMPACT

FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 14

REINFORCED UNIT WITH BILL RISER #34

DESIGN PRESSURE RATING: ±57.3PSF
IMPACT RATING: LARGE MISSILE IMPACT

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 15

6" TO WEEP SLOT
WEEP SLOT 1" x .1875"

142 1/16 MAX.
HEIGHT
SEE NOTE 8 SHEET 1

144" MAX.
O.A. FRAME HEIGHT

334 7/8" O.A. FRAME WIDTH

146 15/16" O.A. FRAME WIDTH TO CORNER

186 15/16" O.A. FRAME WIDTH TO CORNER

48" MAX.
NORMAL PANEL WIDTH

90° CORNER

POCKET WALL
UNDER SEPARATE
APPROVAL TO BE
REVIEWED
BY AWJ.

EXTerior VIEW

SEVEN PANELS ON 2 TRACK FRAME SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS, BYPASS OR 90° CORNER, ON 2, 3, 4 OR 5 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE, USES VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 502 SQUARE FEET.

REINFORCED UNIT WITH BILL RISER #34

DESIGN PRESSURE RATING: ±77.0PSF
IMPACT RATING: LARGE MISSILE IMPACT

FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 14

REINFORCED UNIT WITH BILL RISER #34

DESIGN PRESSURE RATING: ±57.3PSF
IMPACT RATING: LARGE MISSILE IMPACT

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 15

6" TO WEEP SLOT
WEEP SLOT 1" x .1875"

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SEE NOTE 8 SHEET 1

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IMPACT RATING: LARGE MISSILE IMPACT

FOR MASONRY/CONCRETE AND METAL INSTALLATION
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IMPACT RATING: LARGE MISSILE IMPACT

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 15

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WEEP SLOT 1" x .1875"

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HEIGHT
SEE NOTE 8 SHEET 1

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48" MAX.
NORMAL PANEL WIDTH

90° CORNER

POCKET WALL
UNDER SEPARATE
APPROVAL TO BE
REVIEWED
BY AWJ.

EXTerior VIEW

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FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 14

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DESIGN PRESSURE RATING: ±57.3PSF
IMPACT RATING: LARGE MISSILE IMPACT

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 15

6" TO WEEP SLOT
WEEP SLOT 1" x .1875"

142 1/16 MAX.
HEIGHT
SEE NOTE 8 SHEET 1

144" MAX.
O.A. FRAME HEIGHT

334 7/8" O.A. FRAME WIDTH

146 15/16" O.A. FRAME WIDTH TO CORNER

186 15/16" O.A. FRAME WIDTH TO CORNER

48" MAX.
NORMAL PANEL WIDTH

90° CORNER

POCKET WALL
UNDER SEPARATE
APPROVAL TO BE
REVIEWED
BY AWJ.

EXTerior VIEW

SEVEN PANELS ON 2 TRACK FRAME SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS, BYPASS OR 90° CORNER, ON 2, 3, 4 OR 5 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE, USES VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 502 SQUARE FEET.

REINFORCED UNIT WITH BILL RISER #34

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IMPACT RATING: LARGE MISSILE IMPACT

FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 14

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DESIGN PRESSURE RATING: ±57.3PSF
IMPACT RATING: LARGE MISSILE IMPACT

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 15

6" TO WEEP SLOT
WEEP SLOT 1" x .1875"

142 1/16 MAX.
HEIGHT
SEE NOTE 8 SHEET 1

144" MAX.
O.A. FRAME HEIGHT

334 7/8" O.A. FRAME WIDTH

146 15/16" O.A. FRAME WIDTH TO CORNER

186 15/16" O.A. FRAME WIDTH TO CORNER

48" MAX.
NORMAL PANEL WIDTH

90° CORNER

POCKET WALL
UNDER SEPARATE
APPROVAL TO BE
REVIEWED
BY AWJ.
SERIES 8100 4' x 12' REINFORCED 4 TRACK ALUMINUM 90° CORNER SGD

REINFORCED UNIT WITH SILL RISER #34

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FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 14

SEVEN PANELS ON 4 TRACK FRAME SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS. BYPASS OR 90° CORNER, ON 2, 3, 4 OR 5 TRACK FRAME. WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE. USES VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 500 SQUARE FEET.

REINFORCED UNIT WITH SILL RISER #34

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FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 16

REVISIONS

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<td>PER DACE LETTER DATED MARCH 21, 2017</td>
<td>03/24/17</td>
<td>R.L.</td>
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<tr>
<td>B</td>
<td>ADDED CHARTS FOR WOOD INSTALLATION</td>
<td>06/15/16</td>
<td>R.L.</td>
</tr>
<tr>
<td>C</td>
<td>ADDED 8 TRACK SYSTEM</td>
<td>07/20/17</td>
<td>R.L.</td>
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SIGNED: 10/18/2017

WinDoor INCORPORATED
7800 AMSTERDAM DRIVE
ORLANDO, FL 32832

By

Luis R. Lomax P.E.
State of Florida
No. 65214

Luis R. Lomax P.E.
FL No.: 02514

PRODUCT REVISED as complying with the Florida Building Code

NOV.-NO.
17-0822.02

Expiration Date: 11/03/2021

By

Miami-Dade Product Control

D.E. R 12/00/11 SHEET 3 OF 36
SERIES 8100 5' x 10' REINFORCED 2 TRACK ALUMINUM 90° CORNER SGD

EXTERIOR VIEW
SEVEN PANELS ON 2 TRACK FRAME SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS, Bypass or 60° Corner, on 2, 3, 4 or 5 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE, USES VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 500 SQUARE FEET.

REINFORCED UNIT WITH SILL RISER #34

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FOR MASONRY/CONCRETE AND METAL INSTALLATION FOR ADDITIONAL SIZES SEE SHEET 14

REINFORCED UNIT WITH SILL RISER #34

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FOR WOOD INSTALLATION FOR ADDITIONAL SIZES SEE SHEET 15

SIGNED: 10/18/2017
SERIES 8100 50 x 10'0 NON-REINFORCED 4 TRACK ALUMINUM 90° CORNER SGD

EXTERIOR VIEW
SEVEN PANELS ON 4 TRACK FRAME SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS.
BYPASS OR 90° CORNERS, ON 2, 3, OR 4 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED.
AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE, USES VERTICAL CONDITIONS
AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 243 SQUARE FEET.

NON-REINFORCED UNIT WITH SILL RISER #03

DESIGN PRESSURE RATING  IMPACT RATING
±50.0PSF  LARGE
MISSILE IMPACT

FOR WOOD, MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 16

EXTERIOR

SERIES 8100 50 x 10'0 ALUMINUM 90° CORNER SGD
NON-REINFORCED 4 TRACK LAYOUT

SIGN: 10/18/2017

WinDoor INCORPORATED
7505 AMSTERDAM DRIVE
ORLANDO, FL 32833
Phone: 407-893-0740  Fax: 407-893-0650
www.windooronline.com

8100 SERIES ALUMINUM 90° & 135° CORNER SGD
4'0 X 12'0 AND 8'0 X 10'0 PANELS - LM1
5'0 X 10'0 90° 4 TRACK ELEVATION AND LAYOUT

SIGNED: 10/18/2017

沪 R. Lomas B.E.
Fl. No.: 82514
SERIES 8100 4’0” X 12’0” REINFORCED 2 TRACK ALUMINUM 135° CORNER SGD

EXTERIOR VIEW

SEVEN PANELS ON 2 TRACK FRAME SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS. BYPASS OR 135° CORNER, ON 2, 3, 4 OR 5 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE. USES VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 49 SQUARE FEET.

REINFORCED UNIT WITH SILL RISER #34

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FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 15

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FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 17

PRODUCT REVISED as complying with the Florida Building Code

INTEGRATION INHERENT L.E. 10-022.02

Expiration Date: 11/03/2021

WINDOOR INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32833
Phone: 407-832-7700
www.windoors.com

WINDOOR INCORPORATED
8100 SERIES ALUMINUM 90° & 135° CORNER SGD
4’0” X 12’0” AND 2’0” X 10’0” PANELS – LW
4’0” X 12’0” AND 2’0” X 12’0” TRACK ELEVATION AND LAYOUT

SIGNED: 10/18/2017

Luis R. Lomas P.E.
Fl. No.: 62514
SERIES 8100 4’0" x 12’0" REINFORCED 4 TRACK ALUMINUM 135° CORNER SGD

EXTERIOR VIEW
SEVEN PANELS ON 4 TRACK FRAME SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS, BYPASS OR 135° CORNER. ON 2, 3, OR 5 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE, USES VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 496 SQUARE FEET.

REINFORCED UNIT WITH SILL RISER #04

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FOR MASONRY/CONCRETE AND METAL INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 15

REINFORCED UNIT WITH SILL RISER #04

<table>
<thead>
<tr>
<th>DESIGN PRESSURE RATING</th>
<th>IMPACT RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>±57.3PSF</td>
<td>LARGE MISSILE IMPACT</td>
</tr>
</tbody>
</table>

FOR WOOD INSTALLATION
FOR ADDITIONAL SIZES SEE SHEET 17

SIGNED: 10/18/2017

WinDoor INCORPORATED
7506 AMSTERDAM DRIVE
ORLANDO, FL 32813
Phone: 407-854-8860
www.windoorinc.com

8100 SERIES ALUMINUM 90° & 135° CORNER SGD
4’0" X 12’0" AND 5’0" X 10’0" PANELS - LMI
4’0" x 12’0" 135° 4 TRACK ELEVATION AND LAYOUT

WinDoor INCORPORATED
Luis R. Lomas P.E.
State of Florida
No. 82514

NOA-No. 17-0822.02
Expiry Date: 11/03/2021

WinDoor INCORPORATED
Luis R. Lomas P.E.
State of Florida
No. 82514

NOTICE: THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED TO AND SHALL NOT CONSTITUTE AN OFFERING OR SOLICITATION FOR THE SALE OF ANY PRODUCTS OR SERVICES IN ANY JURISDICTION WHERE SUCH OFFER OR SOLICITATION WOULD BE MADE OR RECEIVED WITHOUT THE REQUIRED LICENSES, REGISTRATIONS OR OTHER APPROVALS.

Panel Height: 142 1/16" Max. Panel Height
Max. D.L.O. Height: See Note 9 Sheet 1

Panel Height and D.L.O. Formula
Panel Height = Unit Height - 1 9/16"
Maximum D.L.O. Height = Panel Height - 9 1/2"
D.L.O. Width = Nominal Panel Width - 9 1/2"
SERIES 8100 50' x 100' REINFORCED 2 TRACK ALUMINUM 135° CORNER SGD

EXTERIOR VIEW

SEVEN PANELS ON 2 TRACK FRAME SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS, BYPASS OR 135° CORNER, ON 2, 3, 4 OR 5 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE, LISTS VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 550 SQUARE FEET.

POCKET WALL UNDER SEPARATE APPROVAL TO BE REVIEWED BY AHJ.

SERIES 8100 50' x 100' ALUMINUM 135° CORNER SGD

REINFORCED 2 TRACK LAYOUT

SIGN: 10/18/2017

PRODUCT REVISED

AS COMPLIANT WITH THE FLORIDA BUILDING CODE

NO. 47-0822.02

Expiration Date 11/03/2021

By

Miami-Dade Product Control

Windoor

INCORPORATED

7500 AMSTERDAM DRIVE
ORLANDO, FL 32833
Phone 407-323-1380
www.windoorinc.com

8100 SERIES ALUMINUM 90° & 135° CORNER SGD 4'0" X 12'0" AND 5'0" X 10'0" PANELS - LMI 5'0" X 10'0' 135° 2 TRACK ELEVATION AND LAYOUT

SIGNED: 10/18/2017

Luis R. Lomas P.E.
FL No. 62514
1432 WOODFORD RD. LEWISVILLE, NC 27023
434-688-0029
lomas@lomasspe.com

C 08-01172

REV: 01/20/11

SHEET: 10 OF 36
SERIES 8100 50' x 10' NON-REINFORCED 2TRACK ALUMINUM 135° CORNER SGD

EXTERIOR VIEW
SEVEN PANELS ON 2TRACK FRAME SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS, Bypass OR 135° CORNER, ANY 2 X 3 OR 4 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED 203 SQUARE FEET.

NON-REINFORCED UNIT WITH SILL RISER #33
DESIGN PRESSURE RATING IMPACT RATING
±50.0PSF LARGE MISSILE IMPACT
FOR WOOD, MASONRY/CONCRETE AND METAL INSTALLATION FOR ADDITIONAL SIZES SEE SHEET 18

EXTERIOR SERIES 8100 50' x 10' ALUMINUM 135° CORNER SGD
NON-REINFORCED 2 TRACK ELEVATION AND LAYOUT

Signed: 10/18/2017

WinDoor INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32833

PRODUCT REVISED as complying with the Florida Building Code
No. 17-0828.02
Expiration Date 11/03/2021
By Miami-Dade Product Control

8100 SERIES ALUMINUM 90° & 135° CORNER SGD 50' X 10' AND 50' X 10' PANELS - LWI 5'0" X 10'0" 135° 2 TRACK ELEVATION AND LAYOUT

C. ROBERT LOMAS P.E.
1432 WOODFORD RD LEXINGTON, NC 27292
434-898-3669 evelomas@live.com
SERIES 8100 50' x 100' NON-REINFORCED 4 TRACK ALUMINUM 135° CORNER SGD

EXTERIOR VIEW
SEVEN PANELS ON 2 TRACK FRAME SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS, BYPASS ON 135° CORNER, ON 2, 3, 4 OR 5 TRACK FRAME, WITH OR WITHOUT POCKETS, ARE APPROVED. AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE, USES VERTICAL CONDITIONS AS SHOWN AND THE TOTAL FRAME AREA DOES NOT EXCEED 825 SQUARE FEET.

NON-REINFORCED UNIT WITH BILL HISKIN #33

DESIGN PRESSURE RATING: 50,000 PSI
IMPACT RATING: LARGE MISSILE IMPACT

FOR WOOD, MARLON/WYNYACK CONCRETE AND METAL INSTALLATION

FOR ADDITIONAL SIZES SEE SHEET 18

SIGNED: 10/18/2017

PRODUCT REVISED as complying with the Florida Building Code NOA No.: 17-0822.02
Expiration Date: 11/03/2023

By Miami-Dade Product Control

WinDoor INCORPORATED
500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.416.0760
Fax: 407.416.2295
www.windoorsd.com

8100 SERIES ALUMINUM 90° & 135° CORNER SGD 40' x 50' 4'0" X 10'0" AND 2'0" X 10'0" PANELS - LWI
50' X 100' 135° 4 TRACK ELEVATION AND LAYOUT

WIN DOOR
INCORPORATED

Luis R. Lomas P.E.
No. 62314
State of Florida

Luis R. Lomas P.E.
Fl. No. 62314
### Reinforced Units Design Pressure Charts with Glazing Options A, B, C and D

#### Maximum Design Pressure Capacity Chart (PSF)

<table>
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<tr>
<th>Height (%)</th>
<th>24.0</th>
<th>30.0</th>
<th>36.0</th>
<th>42.0</th>
<th>48.0</th>
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#### Maximum Design Pressure Capacity Chart (PSF)

<table>
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<th>Height (%)</th>
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<th>30.0</th>
<th>36.0</th>
<th>42.0</th>
<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
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</thead>
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</tr>
</tbody>
</table>

### Mechanical Engineering

**Signed:** 10/18/2017

Luis R. Lomax P.E.
Fl. No.: 92514

**WinDoor Incorporates**

7500 AMSTERDAM DRIVE
ORLANDO, FL 32832

Phone: 407-899-0800
Fax: 407-899-0850

noa@win doorinc.com

**8100 Series Aluminum 90° & 135° Corner SSD - 40" X 120" and 50" X 10" PANELS - 90° Unit Design Pressure Rating Charts**

---

**Product Revisions as compared with the Florida Building Code**

**Product Review**

WinDoor Incorporates
FL No.: 92514

**BackDraft**

**Training**

L. Roberto Lomax P.E.
424 SIBERIAN RIDGE AVE 1405

Luis R. Lomax P.E.
Fl. No.: 92514
### Maximum design pressure capacity chart (PSF)

**Series: 6100 Alum. 1530 Reinforced Corner SSG - LMI of 3 1/4" Rear 303**

For units installed in Masonry/Concrete or Metal structures.

<table>
<thead>
<tr>
<th>Height (ft)</th>
<th>24.0</th>
<th>36.0</th>
<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
<th>72.0</th>
<th>84.0</th>
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<tbody>
<tr>
<td>Nonmetal Single Panel/Each (psf)</td>
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<td>105.0</td>
<td>46.0</td>
</tr>
</tbody>
</table>

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

**Series: 6100 Alum. 1530 Reinforced Corner SSG - LMI of 2 1/2" Rear 303**

For units installed in Masonry/Concrete or Metal structures.

<table>
<thead>
<tr>
<th>Height (ft)</th>
<th>24.0</th>
<th>36.0</th>
<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
<th>72.0</th>
<th>84.0</th>
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</thead>
<tbody>
<tr>
<td>Nonmetal Single Panel/Each (psf)</td>
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<td>46.0</td>
<td>105.0</td>
<td>46.0</td>
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</table>

### Maximum design pressure capacity chart (PSF)

**Series: 6100 Alum. 1530 Reinforced Corner SSG - LMI of 3 1/4" Rear 303**

For units installed in Masonry/Concrete or Metal structures.

<table>
<thead>
<tr>
<th>Height (ft)</th>
<th>24.0</th>
<th>36.0</th>
<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
<th>72.0</th>
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<tbody>
<tr>
<td>Nonmetal Single Panel/Each (psf)</td>
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</table>

### Maximum design pressure capacity chart (PSF)

**Series: 6100 Alum. 1530 Reinforced Corner SSG - LMI of 2 1/2" Rear 303**

For units installed in Masonry/Concrete or Metal structures.

<table>
<thead>
<tr>
<th>Height (ft)</th>
<th>24.0</th>
<th>36.0</th>
<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
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<tbody>
<tr>
<td>Nonmetal Single Panel/Each (psf)</td>
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</table>
### Reinforced Units Design Pressure Charts with Glazing Options A, B, C and D

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

**Series 8100 Alum. 305 Reinforced Corner SGD - LMI w/ 1 3/4" Flair #32**

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<td>60.0</td>
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<td>60.0</td>
</tr>
</tbody>
</table>

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

**Series 8100 Alum. 305 Reinforced Corner SGD - LMI w/ 2 1/4" Flair #33**

<table>
<thead>
<tr>
<th>Height (in)</th>
<th>24.0</th>
<th>36.0</th>
<th>48.0</th>
<th>60.0</th>
<th>72.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pos</td>
<td>Neg</td>
<td>Pos</td>
<td>Neg</td>
<td>Pos</td>
</tr>
<tr>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
</tr>
<tr>
<td>64.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
</tr>
<tr>
<td>68.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
</tr>
<tr>
<td>72.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
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</tr>
</tbody>
</table>

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

**Series 8100 Alum. 305 Reinforced Corner SGD - LMI w/ 2 3/4" Flair #34**

<table>
<thead>
<tr>
<th>Height (in)</th>
<th>24.0</th>
<th>36.0</th>
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<th>60.0</th>
<th>72.0</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>Neg</td>
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<tr>
<td>64.0</td>
<td>60.0</td>
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<td>60.0</td>
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<tr>
<td>68.0</td>
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<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
</tr>
</tbody>
</table>

### Product Revised as complying with the Florida Building Code

8100 SERIES ALUMINUM 90° & 135° CORNER SGD 40" X 100" AND 50" X 100" PANELS - LMI 90° UNIT DESIGN PRESSURE RATING CHARTS

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

Panel Height = Unit Height - 1/16"  
Maximum D.O. Height = Panel Height - 9 1/2"  
D.O. Width = Nominal Panel Width - 9 1/2"  

**SIGNED: 10/18/2017**  
L. R. Lomas P.E.  
No. 62514  
Luis R. Lomas P.E.  
FL No.: 62514  
1432 Woodward Rd Lewesville, NC 27023  
434-028-0203  
info@loramapac.com
### Reinforced Units Design Pressure Charts with Glazing Options A, B, C and D

#### Maximum Design Pressure Capacity (PSF)

**Series 9100 Alum. 1535 Reinforced Corner SGD - LM w/1 7/8" Riser #3**

<table>
<thead>
<tr>
<th>Height (in)</th>
<th>Nominal Single Panel Width (in)</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>30.0</td>
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<td>54.0</td>
<td>9.0</td>
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</tr>
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<table>
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<tr>
<th>REV</th>
<th>DESCRIPTION</th>
<th>DATE</th>
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<tbody>
<tr>
<td>A</td>
<td>PER DATE LETTER DATED MARCH 21, 2011</td>
<td>03/24/11</td>
<td>R.L.</td>
</tr>
<tr>
<td>B</td>
<td>ADDED CHARTS FOR WOOD INSTALLATION</td>
<td>06/15/15</td>
<td>R.L.</td>
</tr>
<tr>
<td>C</td>
<td>ADDED S-TRACK SYSTEM</td>
<td>07/20/17</td>
<td>R.L.</td>
</tr>
</tbody>
</table>

#### Maximum Design Pressure Capacity (PSF)

**Series 9100 Alum. 1535 Reinforced Corner SGD - LM w/3 1/4" Riser #3**

<table>
<thead>
<tr>
<th>Height (in)</th>
<th>Nominal Single Panel Width (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.0</td>
<td>9.0</td>
</tr>
<tr>
<td>30.0</td>
<td>9.0</td>
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<tr>
<td>36.0</td>
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<tr>
<td>43.0</td>
<td>9.0</td>
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<tr>
<td>54.0</td>
<td>9.0</td>
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<tr>
<td>60.0</td>
<td>9.0</td>
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</table>

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**WinDoor INCORPORATED**

7500 AMJoei Durs.
ORLANDO, FL 32852

Phone: 866-1540
Fax: 407-708-3850

www.windoorinc.com

PRODUCT REVISED as consulting with the Florida Building Code:

NOA-No.: 17-0832.02

Expiration Date: 11/03/2021

By Funuance Product Control

Signed: 10/16/2017

Luis R. Lomas P.E.
FL No.: 62514
### NON-REINFORCED UNITS DESIGN PRESSURE CHARTS

**WITH GLAZING OPTIONS A, B, C, D, E AND F**

#### Maximum design pressure capacity chart

**Series 9100 Alum, 90D Non-Reinforced Corner SSG - LM w/ 1 3/4" Riser #32**

For units installed in Wood, Masonry/Concrete or Metal structure.

<table>
<thead>
<tr>
<th>Height (in)</th>
<th>24.0</th>
<th>30.0</th>
<th>36.0</th>
<th>42.0</th>
<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
<th>90.0</th>
<th>120.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pos. Neg.</td>
<td>45.0</td>
<td>44.0</td>
<td>43.0</td>
<td>42.0</td>
<td>41.0</td>
<td>40.0</td>
<td>39.0</td>
<td>38.0</td>
<td>37.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
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<td>55.0</td>
<td>54.0</td>
<td>53.0</td>
<td>52.0</td>
<td>51.0</td>
<td>50.0</td>
<td>49.0</td>
<td>48.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
<td>67.0</td>
<td>66.0</td>
<td>65.0</td>
<td>64.0</td>
<td>63.0</td>
<td>62.0</td>
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<td>60.0</td>
<td>59.0</td>
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<tr>
<td>Pos. Neg.</td>
<td>78.0</td>
<td>77.0</td>
<td>76.0</td>
<td>75.0</td>
<td>74.0</td>
<td>73.0</td>
<td>72.0</td>
<td>71.0</td>
<td>70.0</td>
</tr>
</tbody>
</table>

#### Maximum design pressure capacity chart

**Series 9100 Alum, 90D Non-Reinforced Corner SSG - LM w/ 2 3/4" Riser #32**

For units installed in Wood, Masonry/Concrete or Metal structure.

<table>
<thead>
<tr>
<th>Height (in)</th>
<th>24.0</th>
<th>30.0</th>
<th>36.0</th>
<th>42.0</th>
<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
<th>90.0</th>
<th>120.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pos. Neg.</td>
<td>45.0</td>
<td>44.0</td>
<td>43.0</td>
<td>42.0</td>
<td>41.0</td>
<td>40.0</td>
<td>39.0</td>
<td>38.0</td>
<td>37.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
<td>56.0</td>
<td>55.0</td>
<td>54.0</td>
<td>53.0</td>
<td>52.0</td>
<td>51.0</td>
<td>50.0</td>
<td>49.0</td>
<td>48.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
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<td>66.0</td>
<td>65.0</td>
<td>64.0</td>
<td>63.0</td>
<td>62.0</td>
<td>61.0</td>
<td>60.0</td>
<td>59.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
<td>78.0</td>
<td>77.0</td>
<td>76.0</td>
<td>75.0</td>
<td>74.0</td>
<td>73.0</td>
<td>72.0</td>
<td>71.0</td>
<td>70.0</td>
</tr>
</tbody>
</table>

#### Maximum design pressure capacity chart

**Series 9100 Alum, 90D Non-Reinforced Corner SSG - LM w/ 3" Riser #4**

For units installed in Wood, Masonry/Concrete or Metal structure.

<table>
<thead>
<tr>
<th>Height (in)</th>
<th>24.0</th>
<th>30.0</th>
<th>36.0</th>
<th>42.0</th>
<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
<th>90.0</th>
<th>120.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pos. Neg.</td>
<td>45.0</td>
<td>44.0</td>
<td>43.0</td>
<td>42.0</td>
<td>41.0</td>
<td>40.0</td>
<td>39.0</td>
<td>38.0</td>
<td>37.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
<td>56.0</td>
<td>55.0</td>
<td>54.0</td>
<td>53.0</td>
<td>52.0</td>
<td>51.0</td>
<td>50.0</td>
<td>49.0</td>
<td>48.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
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<td>66.0</td>
<td>65.0</td>
<td>64.0</td>
<td>63.0</td>
<td>62.0</td>
<td>61.0</td>
<td>60.0</td>
<td>59.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
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<td>77.0</td>
<td>76.0</td>
<td>75.0</td>
<td>74.0</td>
<td>73.0</td>
<td>72.0</td>
<td>71.0</td>
<td>70.0</td>
</tr>
</tbody>
</table>

#### Maximum design pressure capacity chart

**Series 9100 Alum, 90D Non-Reinforced Corner SSG - LM w/ 4" Riser #4**

For units installed in Wood, Masonry/Concrete or Metal structure.

<table>
<thead>
<tr>
<th>Height (in)</th>
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<th>30.0</th>
<th>36.0</th>
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<th>48.0</th>
<th>54.0</th>
<th>60.0</th>
<th>90.0</th>
<th>120.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pos. Neg.</td>
<td>45.0</td>
<td>44.0</td>
<td>43.0</td>
<td>42.0</td>
<td>41.0</td>
<td>40.0</td>
<td>39.0</td>
<td>38.0</td>
<td>37.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
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<td>64.0</td>
<td>63.0</td>
<td>62.0</td>
<td>61.0</td>
<td>60.0</td>
<td>59.0</td>
</tr>
<tr>
<td>Pos. Neg.</td>
<td>78.0</td>
<td>77.0</td>
<td>76.0</td>
<td>75.0</td>
<td>74.0</td>
<td>73.0</td>
<td>72.0</td>
<td>71.0</td>
<td>70.0</td>
</tr>
</tbody>
</table>

---

**Product Revisions:**

- **WinDoor INCORPORATED**
  - Address: 750 Amsterdam Drive
  - City: Orlando, FL 32832
  - Phone: 407-647-0047
  - Website: [www.windoorinc.com](http://www.windoorinc.com)

- **Luis R. Lomas P.E.**
  - Address: 1402 Woodford Rd., Leesville, LA 70733
  - Phone: 504-666-7213
  - Website: [luis.r.lomas@gmail.com](mailto:luis.r.lomas@gmail.com)

**Signed:** 10/18/2017

---

**Important Note:**

- The design pressure capacity charts are based on the Florida Building Code NOA-94.
- The charts are applicable for 90° and 135° units with varying riser heights.
- Maximum D.O. Height is based on the panel height and D.O. width.
ANCHORING NOTES:

1) ALL FRAME SYSTEMS, 2, 3, 4 and 5 TRACK, HAVE TWO ANCHORS AT EACH LOCATION SHOWN IN HEAD, SILL AND JAMBS.

2) ALL FRAME SYSTEMS, 2, 3, 4 and 5 TRACK, HAVE ONE ANCHOR AT EACH LOCATION IN HOOK STRIP.

3) FOR ANCHORING INTO MASONRY/CONCRETE THROUGH A PROPERLY SECURED 1/4" NON-STRUCTURAL WOOD BUCK USE 1/4" ELDO CRETÉ-FLUX WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT 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 FRAMING, 2X4 BUCK OR 2X4 WOOD BACKED 20 GA. MINIMUM STEEL STUD USE #14 GRADE 5 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

5) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACING 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 STRENGTH LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:

- A. WOOD – MINIMUM SPECIFIC GRAVITY OF 0.50-0.62
- 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 FRAMING – 20 GA. (0.030) MINIMUM THICKNESS WITH 2X4 WOOD BACKING, Fy = 33ksi/88ksi MINIMUM.

8) FOR 2, 3 & 4 TRACK UNITS THERE ARE TWO (2) INSTALLATION ANCHORS AT EACH ANCHOR LOCATION IN HEAD, SILL AND JAMBS. FOR 5 TRACK UNITS THERE ARE THREE (3) INSTALLATION ANCHORS AT EACH LOCATION IN HEAD, SILL AND JAMBS. ANCHOR AT EACH ANCHOR LOCATION IN HOOK STRIP.

9) WHERE 2 OR MORE ANCHORS ARE REQUIRED AT HEAD/SILL ANCHORS SHALL BE EQUALLY SPACED.

PRODUCT REVISED as complying with the Florida Building Code

NOA No.: 17-0032.02
Expiry Date: 11/02/2021

By: Miami-Dade Product Control

SIGNED: 10/18/2017

WinDoor INCORPORATED

7500 AMSTERDAM DRIVE
ORLANDO, FL 32833
Phone: 407-638-8822
Fax: 407-638-8821
www.windoorinc.com

8100 SERIES ALUMINUM 90° & 135° CORNER SGD
4'0" X 12'0" AND 8'0" X 12'0" PANELS – LM
4'0" X 12'0" ANCHORING LAYOUT AND NOTES

REV: 88-011172

Luis R. Loma F.E.
FL No. 62514

Raul R. Loma P.L.E.
FL No. 62514
### Number of anchor locations required at hookstrip (1 anchor per location)

<table>
<thead>
<tr>
<th>Height (ft)</th>
<th>Single Panel Width (in)</th>
<th>24.0</th>
<th>30.0</th>
<th>36.0</th>
<th>42.0</th>
<th>48.0</th>
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<th>60.0</th>
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</tr>
</tbody>
</table>

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

<table>
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<th>Height (ft)</th>
<th>Single Panel Width (in)</th>
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<th>36.0</th>
<th>42.0</th>
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<tbody>
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<td>12</td>
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<td>12</td>
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<td>12</td>
</tr>
</tbody>
</table>

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**WinDoor INCORPORATED**
7500 AMSTERDAM DRIVE
ORLANDO, FL 32833
www.windoorinc.com

**Luis R. Lomás P.E.**
FL No.: 82514

**SIGNED: 10/18/2017**
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) 1/16" x 1/16" go drive screws at each end. Item #83. All panels have an interior and exterior applied glazing stop.

Frame Construction:
Each frame corner is notched and bolted. Head and sill are secured to jambs with #7 type A 55 screw. Item #84. (2) At each corner on 2 track, (2) at 3 track frame and (3) at each corner on 4 and 5 track frame.

WinDoor Incorporated
7500 Amsterdam Drive
Orlando, FL 32812

8100 Series Aluminum 93° & 135° Corner SGDP 4'0" x 1'2" and 5'0" x 1'0" panels - LM Cluster and Anchor Location Details

Signed: 10/16/2017

By: Miami-Dade Product Control

Luis R. Lomas P.E.
L. Roberto Lomas P.E.
<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>MATERIAL</th>
</tr>
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<tbody>
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<td>01</td>
<td>FS-C2267</td>
<td>2 TRACK FRAME HEAD</td>
<td>KEYMARK</td>
<td>ALUMINUM 0.063-76</td>
</tr>
<tr>
<td>02</td>
<td>FS-C2267</td>
<td>2 TRACK FRAME JAMB</td>
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<td>ALUMINUM 0.063-76</td>
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<tr>
<td>03</td>
<td>FS-4118</td>
<td>3 TRACK SILL PAN</td>
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<td>ALUMINUM 0.063-76</td>
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<td>04</td>
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<td>3 TRACK SILL INSERT</td>
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<td>05</td>
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<td>4 TRACK FRAME HEAD</td>
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<td>5.5” BIL RISER</td>
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</tbody>
</table>

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**PRODUCT REVISED**

AS complementary with the Florida Building Code

**H.B.4922.02**

**Expiry Date 11/03/2021**

**By Miami Beach Product Control**

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**WinDoor INCORPORATED**

**7500 AMSTERDAM DRIVE**

**ORLANDO, FL 32832**

**www.windoorinc.com**

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**LIAM SERIES ALUMINUM 90° & 135° CORNER SQG**

**4’X 12’ AND 5’X 10’ PANELS - LMI BILL OF MATERIALS AND GLAZING OPTIONS**

---

**No. 62514**

**No. 62514**

**L. ROBERTO LOMAS P.E.**

**F. No.: 62514**

---

**SIGNED: 10/18/2017**
VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
4 TRACK FRAME SHOWN, 2, 3 AND 5 TRACK SIMILAR

NOTE:
MASONRY/CONCRETE SUBSTRATE INSTALLATION FOR 4 TRACK SHOWN. ANCHORAGE SIMILAR FOR 2, 3 AND 5 TRACK SYSTEMS.
SEE SHEET 21 FOR D.C. ANCHOR SEPARATION.

4 TRACK WITH 3˝ SILL NSER SHOWN. 2, 3 AND 5 TRACK ARE SIMILAR. ALL APPLICABLE SILL NSERS MAY BE USED. SEE D.P. TABLES SHEETS 14 AND 15.

FASTENER HEADS TO BE COVERED WITH APPROVED SEALANT
1/4˝ ELCO CRETE-FLEX SEE NOTE 3 SHEET 19

OPTIONAL 1X BUCK BY OTHERS, 1X BUCK TO BE PROPERLY SECURED (SEE NOTES 2 & 3 SHEET 1)

MASONRY/CONCRETE BY OTHERS

2 1/2˝ MIN. EDGE DIST.

7 1/8˝ SEPARATION

INTERIOR

EXTERIOR

BACKER ROD AND APPROVED SEALANT
1/4˝ ELCO CRETE-FLEX SEE NOTE 3 SHEET 19

1/4˝ MAX SHIM

1 1/4˝ MIN. EMBEDMENT

REV
A
B
C

DESCRIPTION
PER DAVE LETTER DATED MARCH 21, 2011
ADDED CHARTS FOR WOOD INSTALLATION
ADDED S TRACK SYSTEM

DATE
03/24/11
06/15/15
07/23/17

APPROVED
R.L.
R.L.
R.L.

SIGNED: 10/18/2017

WinDoor
INTEGRATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32839
Phone: 407.491.8000
Fax: 407.942.3841
www.elcococtor.com

8100 SERIES ALUMINUM 90° & 135° CORNER SGD
40 x 120° AND 50 x 100° PANELS - LMI INSTALLATION DETAILS

E: ROBERTO.LOMAFO.P.E.
1430 WOODFORD RD LEWISVILLE, NC 27703
434-688-0660
rmolafo@lomafo.com

Carlos M. Lomafo P.E.
FL No.: 123456

Luis R. Lomas P.E.
FL No.: 62514
**HORIZONTAL CROSS SECTION**

2X BACKED STEEL FRAMING INSTALLATION
2 TRACK FRAME SHOWN, 3, 4 AND 5 TRACK SIMILAR

**VERTICAL CROSS SECTION**

2X BACKED STEEL FRAMING INSTALLATION
2 TRACK FRAME SHOWN, 3, 4 AND 5 TRACK SIMILAR

**NOTE:**
WOOD BACKED 20GA STEEL STUD SUBSTRATE INSTALLATION
FOR 2 TRACK SHOWN. ANCHORAGE SIMILAR FOR 3, 4 AND 5 TRACK SYSTEMS. SEE SHEET 21 FOR 6.0 ANCHOR SEPARATION.

2 TRACK WITH 3 1/2" SILL RISER SHOWN. 3, 4 AND 5 TRACK ARE SIMILAR. ALL APPLICABLE SILL RISERS MAY BE USED. SEE D.P. TABLES SHEETS 14 AND 15.

**SIGNED:** 10/18/2017

**PRODUCTION REVISIONS:**

- A PER DAVE LETTER DATED MARCH 21, 2011
- B ADDED CHARTS FOR WOOD INSTALLATION - 08/15/15
- C ADDED 5 TRACK SYSTEM - 07/20/17
**KEEPER LOCATIONS AT 90° AND 135° CORNERS**

**LOOKING HARDWARE NOTES:**
1. LAYOUT IS FOR ALL PANELS UP TO 12'0" HIGH.
2. MAIN OPERATOR HANDLE OPERATES KEEPER LOCATIONS 1 - 6.
   SECONDARY OPERATOR HANDLE OPERATES KEEPER LOCATIONS 7 - 12.

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<table>
<thead>
<tr>
<th>Keeper Locations</th>
<th>Height (in)</th>
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<tbody>
<tr>
<td>1, 2, 3, 4, 5, 6, 7, 8, 9 and 12</td>
<td>5' 5/64&quot;</td>
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<tr>
<td>1, 2, 3, 4, 5, 6, 7, 8, 9 and 11</td>
<td>5' 5/64&quot;</td>
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<tr>
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<td>5' 5/64&quot;</td>
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<tr>
<td>1, 2, 3, 4, 5, 6, 7, 9, 10 and 12</td>
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</tr>
<tr>
<td>1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11</td>
<td>5' 5/64&quot;</td>
</tr>
</tbody>
</table>

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**SIGNED:** 10/18/2017

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**PRODUCT REVISED as complying with the Florida Building Code NOA No:** 17-0822.02

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**WinDoor INCORPORATED**

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**LUIS R. LOMAS, P.E.**
FL No.: 62514
1430 Woodford Rd Lewisville, NC 27023
(919) 661-0658 lomashome@comcast.com