Eco Window Systems, LLC
8502 NW 80th Street
Medley, FL 33166

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 850 Glass & Aluminum Sectional Garage Door

APPROVAL DOCUMENT: Drawing No. 17-09, titled “Series 850 Alum/ Glass Sectional Garage Door (L.M.I.),” sheets 1 through 7 of 7, dated 02/23/17, with revision B dated 01/18/2018, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Section 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

LABELING: A permanent label with the manufacturer’s name or logo, manufacturing address, model/series number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading ‘Miami-Dade County Product Control Approved’ is to be located on the door’s side track, bottom angle, or inner surface of a panel.

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 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 # 17-0306.01 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 Carlos M. Utrera, P.E.

NOA No. 18-0129.14
Expiration Date: May 18, 2022
Approval Date: April 19, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS “Submitted under NOA # 17-0306.01”
   1. Manufacturer's die drawings and sections.
   2. Drawing No. 17-09, titled “Series 850 Alum/ Glass Sectional Garage Door (L.M.I.)”, sheets 1 through 7 of 7, dated 02/23/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS “Submitted under NOA # 17-0306.01”
   1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94  
       2) Large Missile Impact Test per FBC, TAS 201-94  
       3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
       4) Forced Entry Test, per FBC, TAS 202–94  
   along with marked-up drawings and installation diagram of 12'0" x 8', Series 850 aluminum/glass sectional garage door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-9177, dated 02/17/17, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS “Submitted under NOA # 17-0306.01”
   1. Anchor verification calculations and structural analysis, complying with FBC 5th edition (2014), dated 02/21/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   2. Glazing complies with ASTM E1300–09

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

E. MATERIAL CERTIFICATIONS “Submitted under NOA # 17-0306.01”
   1. Notice of Acceptance No. 16-1117.01 issued to Kuraray America, Inc. for their “Trosifol® Ultracelear, Clear and Color PVB Glass Interlayer” dated 01/19/17, expiring on 07/08/19.

F. STATEMENTS “Submitted under NOA # 17-0306.01”
   1. Statement letter of conformance, complying with FBC 5th Edition (2014), and of no financial interest, dated 02/21/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E
   2. Test proposal # 16-1515, approved by RER.

G. OTHERS
   1. None.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 18-0129.14
Expiration Date: May 18, 2022
Approval Date: April 19, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS
   1. Drawing No. 17-09, titled “Series 850 Alum/ Glass Sectional Garage Door (L.M.I.)”, sheets 1 through 7 of 7, dated 02/23/17, with revision B dated 01/18/2018, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS
   1. None.

C. CALCULATIONS
   1. None.

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

E. MATERIAL CERTIFICATIONS
   1. Notice of Acceptance No. 17-1114.14 issued to Kuraray America, Inc. for their “Trosifol® Ultra Clear, Clear and Color PVB Glass Interlayers” dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 18-0129.14
Expiration Date: May 18, 2022
Approval Date: April 19, 2018

E – 2
NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300–09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCAS05–DEC–219

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

SERIES 860
ALUMINUM/GLASS SECTIONAL GARAGE DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE
INCLUDING HIGH VELOCITY HURRICANE ZONE (MHZ).
WOOD BUCKS & BUCK FASTENERS BY OTHERS MUST BE DESIGNED AND
INSTALLED ADEQUATELY TO TRANSFER APPLIED LOADS TO THE
BUILDING STRUCTURE.
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS
AND INSTALLED PER MANUF’S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRRESSIBLE.
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE & ADOPTED STANDARDS.
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.
MANUFACTURER’S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1710.8.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1710.8.2.

GLAZING DETAIL
5-1/2" x 2-3/4" x 12 GA.
ST. STEEL TOP BRACKET
W/ (D) #14 X 3/4"
HIGH SELF DRILLING SCREWS

7-1/2" x 2-1/2" x 12 GA. ST. STEEL
END ROLLER HINGE
W/ (B) #14 X 3/4"
HIGH SELF DRILLING SCREWS

7-1/2" x 2-1/2" x 12 GA. ST. STEEL
HINGE
W/ (6) #14 X 3/4"
HIGH SELF DRILLING SCREWS

1" W X .15 THK. LATCH
STANDARD LOCK
SPRING LOADED SLIDE BOLT (WITH S5035)
FASTENED W/ (4) #14 X 3/4"
HIGH SELF DRILLING SCREWS
5/8" MIN. LOCK ENGAGEMENT
CONFIRMED TO SECTION 1000
REGARDING GARAGE DOORS

158 DIA. ST. STEEL
CABLE & NICKEL PRESS SLEEVE
W/ MIN. 5 TO 1 SAFETY FACTOR

7-7/8" x 3-1/8" x 12 GA.
ST. STEEL PLATE
WITH (4) #14 X 3/4"
HIGH SSS

INTERIOR ELEVATION

MAXIMUM DESIGN LOAD RATING = + 45.0 PSF
(For sizes shown or smaller)  -  55.0 PSF

NOMINAL
DOOR
HEIGHT
8'-0"
10'-0"
12'-0"
14'-0"

NO. OF SECTIONS
4 SECTIONS
5 SECTIONS
6 SECTIONS
7 SECTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
No. 18-0129.14
Expiration Date 05/18/2022

By:
Miami-Dade Product Control
TYPICAL ANCHORS:

5/16" DIA. ULTRACON BY 'ELOCO' (Fy=177 KSI, fy=155 KSI)

THRU 18Y OR 28Y BUCKS INTO CONCRETE
1-3/4" MIN. EMBRED INTO CONCRETE
AT 4" FROM BOTTOM AND 7-3/16" O.C. MAX.

DIRECtLY INTO CONCRETE
1-3/4" MIN. EMBRED INTO CONCRETE
AT 4" FROM BOTTOM AND 7-3/16" O.C. MAX.

3/8" DIA. Kwik Bolt 3 Expansion Anchor By 'Hilti'

DIRECtLY INTO BLOCKS
2-1/2" MIN. EMBRED INTO GROUT-FILLED BLOCKS
AT 4" FROM BOTTOM AND 7-3/16" O.C. MAX.
4" MIN. EDGE DISTANCE

5/16" DIA. Dbl-Fix Screws By 'Eloco' (Fy=160 KSI, fy=48 KSI)

INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
AT 4" FROM BOTTOM AND 9-1/2" O.C. MAX.
STEEL: 1/8" THK. MIN. (Fs = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

3/8" DIA. LAG SCREWS

INTO WOOD STRUCTURES
2-1/4" MIN. PENETRATION INTO WOOD
AT 4" FROM BOTTOM AND 9-1/2" O.C. MAX.

TYPICAL EDGE DISTANCE

INTO CONCRETE = 3-1/8" MIN.
INTO FILLED BLOCKS = 4" MIN.
INTO WOOD STRUCTURE = 1-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD SD = 0.55 MIN.
CONCRETE Fc = 3000 PSI MIN.
C-80 GROUT FILLED BLOCK Fm = 2000 PSI MIN.
1/4-20 x 5/8" TRUSS HD.
SLOT M.S. & LOCK NUT
OR 1/4" RIVETS AT 24" O.C. MAX.

HORIZ. ANGLE
2 x 2 x 12 GA. FOR DOORS
EXCEEDING 8 FT. IN HEIGHT
1-1/2" x 1-1/2" x 12 GA.
FOR DOORS 8 FT. HIGH

SECTION C-C

VERTICAL LIFT
HIGH LIFT
STANDARD LIFT
LOW HEAD ROOM
DOUBLE TRACK

AVAILABLE TRACK OPTIONS

JAN 25 2018

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 18-0129.14
Expiration Date 05/18/2022
By
Miami-Dade Product Control
<table>
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<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>REQD.</th>
<th>DESCRIPTION</th>
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<td>2</td>
<td>TOP AND BOTTOM RAIL</td>
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<td>SIDE RAIL</td>
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<td>W'STRIP ADAPTER</td>
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<td>ST. STEEL</td>
<td>FH SELF DRILLING SCREWS</td>
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<td>DOOR TRACK</td>
<td>ST. STEEL</td>
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<td>HORIZONTAL ANGLE</td>
<td>GALV. STEEL</td>
<td>Fy Min. = 50 KSI</td>
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<td>JAMB BRACKET</td>
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<td>ROLLER HINGES</td>
<td>ST. STEEL</td>
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<td>ROLLER/CENTER HINGES</td>
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<td>ST. STEEL</td>
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<td>5/32&quot; SPRING LIFT CABLE</td>
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<td>3/8&quot; DIA. THREADED ROD &amp; NUT</td>
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<td>GLAZING VINYL</td>
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<td>SILICONE</td>
<td>FRANK LONE RUBBER CO.</td>
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<td>SETTING BLOCK, 1/4&quot; X 1/2&quot; X 4&quot; LONG</td>
<td>EPDM</td>
<td>AT 6&quot; FROM EACH END, DURAMETER 65±5</td>
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<td>BULB W'STRIPPING</td>
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<td>REINFORCING TRUSS</td>
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<td>ST. STEEL</td>
<td>HH SELF DRILLING SCREWS</td>
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