Lawson Industries, Inc.
8501 NW 90 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 “HS-8700 (Flange Frame)” Aluminum Horizontal Sliding Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. L8700-0901, titled “HS-8700 Horizontal Rolling Flange Impact Window”, sheets 1 through 10 of 10, dated 05/30/09, with revision F, dated 07/31/20, prepared by manufacturer, and signed and sealed by Thomas J. Sotos, 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

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, 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 NOA No. 19-0708.09 and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.
The submitted documentation was reviewed by Manuel Perez, P.E.
Lawson Industries, Inc.

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. 02-0227.05)
   2. Drawing No. L8700-0901, titled “HS-8700 Horizontal Rolling Flange Impact Window”, sheets 1 through 10 of 10, dated 05/30/09, with revision E dated 06/21/19, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.
      (Submitted under NOA No. 19-0708.09)

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 diagram of a series HS-8700 flange frame aluminum horizontal sliding window, XO and XOX configurations, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-10715, dated 05/08/19, signed and sealed by Idalmis Ortega, P.E.
      (Submitted under NOA No. 19-0708.09)
   2. 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, and TAS 202-94
      along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, XOX (1/4-1/2-1/4 and 1/3-1/3-1/3) configuration, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. HETI-10-3049 and HETI-10-3051, dated 03/23/11, signed and sealed by Candido F. Font, P.E.
      (Submitted under NOA No. 11-0705.10)
   3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
      along with marked-up drawings and installation diagram of 8 specimens of an aluminum horizontal sliding window, XOX (1/4-1/2-1/4 and 1/3-1/3-1/3) configuration, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. HETI-10-3047, HETI-10-3053, HETI-10-3057, HETI-10-3130, HETI-10-3223 and HET-10-3225, all dated 03/23/11, and signed and sealed by Candido F. Font, P.E.
      (Submitted under NOA No. 11-0705.10)
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA’s (CONTINUED)

B. TESTS (CONTINUED)

4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of an aluminum horizontal
   sliding window, XOX (1/4-1/2-1/4 and 1/3-1/3-1/3) configuration, prepared by
   Hurricane Engineering & Testing, Inc., Test Reports No. HETI-10-3048,
   HETI-10-3049I, dated 11/09/10, HETI-10-3050, HETI-10-3052B, HETI-10-3056,
   HETI-10-3131, HETI-10-3224 and HETI-10-3226, all dated 03/23/11, and signed and
   sealed by Candido F. Font, P.E.
   (Submitted under NOA No. 11-0705.10)

5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of an aluminum horizontal
   sliding window, XOX configuration, prepared by Hurricane Engineering & Testing,
   Inc., Test Report No. HETI-10-3251, dated 04/25/11, signed and sealed by Rafael E.
   Droz-Seda, P.E.
   (Submitted under NOA No. 11-0705.10)

6. 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 diagram of 8 specimens of an
   aluminum horizontal sliding window, XO configuration, prepared by Hurricane
   Engineering & Testing, Inc., Test Reports No. HETI-08-2033, HETI-08-2034,
   HETI-08-2035, HETI-08-2036, HETI-08-2037, HETI-08-2038, HETI-08-2116A
   and HETI-08-2116B, all dated 02/28/08, and signed and sealed by Candido F. Font,
   P.E.
   (Submitted under NOA No. 09-0706.05)
Lawson Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA’s (CONTINUED)

B. TESTS (CONTINUED)

7. 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 diagram of 8 specimens of an aluminum horizontal sliding window, XO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. FTL-3097, FTL-3098 and FTL-3364, dated 12/06/01, 12/11/01 and 01/28/02, respectively, all signed and sealed by Luis Antonio Figueredo, P.E.
   (Submitted under NOA No. 02-0227.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by Lawson Industries, Inc., dated 05/28/09, revised on 07/10 and updated on 01/25/12, signed and sealed by Thomas J. Sotos, P.E.
   (Submitted under NOA No. 12-0127.08)

2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their “Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers” dated 05/09/19, expiring on 07/08/24.

2. Notice of Acceptance No. 17-0712.05 issued to Eastman Chemical Company (MA) for their “Saflex Clear and Color Glass Interlayers” dated 09/07/17, expiring on 05/21/21.

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Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-0813.06
Expiration Date: April 11, 2022
Approval Date: October 08, 2020
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA’s (CONTINUED)

F. STATEMENTS
   (Submitted under NOA No. 19-0708.09)
2. Statement letter of no financial interest, dated June 24, 2019, signed and sealed by Thomas J. Sotos, P.E.  
   (Submitted under NOA No. 19-0708.09)
3. Proposal No. 18-1697 issued by the Product Control Section, dated January 04, 2019, signed by Manuel Perez, P.E. 
   (Submitted under NOA No. 19-0708.09)
   (Submitted under NOA No. 11-0705.10)
5. Laboratory compliance letter for Test Report No. HETI-10-3251, issued by Hurricane Engineering & Testing, Inc., dated 04/25/11, signed and sealed by Rafael E. Droz-Seda, P.E. 
   (Submitted under NOA No. 11-0705.10)
6. Laboratory compliance letter for Test Reports No. HETI-08-2033, HETI-08-2034, HETI-08-2035, HETI-08-2036, HETI-08-2037, HETI-08-2038, HETI-08-2116A and HETI-08-2116B, all issued by Hurricane Engineering & Testing, Inc., dated 01/15/08 through 02/28/08, and signed and sealed by Candido F. Font, P.E. 
   (Submitted under NOA No. 09-0706.05)
7. Laboratory compliance letter for Test Reports No. FTL-3097, FTL-3098 and FTL-3364, all issued by Fenestration Testing Laboratory, Inc., dated 12/06/01, 12/11/01 and 01/28/02, and signed and sealed by Luis Antonio Figueredo, P.E. 
   (Submitted under NOA No. 02-0227.05)

G. OTHERS
1. Notice of Acceptance No. 17-1212.17, issued to Lawson Industries, Inc. for their Series “HS-8700 (Flange-Frame) Aluminum Horizontal Sliding Window – LM.I.” approved on 02/01/18 and expiring on 04/11/22.

Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 20-0813.06  
Expiration Date: April 11, 2022  
Approval Date: October 08, 2020  
E - 4
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS
1. Drawing No. L8700-0901, titled “HS-8700 Horizontal Rolling Flange Impact Window”, sheets 1 through 10 of 10, dated 05/30/09, with revision F dated 07/31/20, prepared by manufacturer, signed and sealed by Thomas J. Sotos, 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. 19-0305.02 issued to Kuraray America, Inc. for their “Trosifol UltraClear, Clear and Color PVB Glass Interlayers” dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. 20-0622.01 issued to Eastman Chemical Company (MA) for their “Saflex PVB Clear and Color Glass Interlayers” dated 08/06/20, expiring on 05/21/21.

F. STATEMENTS

G. OTHERS
1. Notice of Acceptance No. 19-0708.09, issued to Lawson Industries, Inc. for their Series “HS-8700 (Flange Frame)” Aluminum Horizontal Sliding Window – L.M.I., approved on 08/01/19 and expiring on 04/11/22.
General Notes:

1. This window system is designed and tested to comply with the requirements of the Florida Building Code (2017-6th Edition & 2020-7th Edition, including High Velocity Hurricane Zone (HVHZ) and ASTM 1300-09. This product is impact resistant. (Shutters not required).

2. Wood bucks shall be installed and anchored so that the building resists the superimposed loads in accordance with the requirements of the Florida Building Code & to be reviewed by building official.

3. Anchors shown on sheet 2 of 10 are as per test units. Anchors on all window sizes are not to exceed these maximum spacings on center (C.C.), and as tabulated on sheets 6, 7, or 8.

4. Anchor conditions not described in these drawings are to be engineered on a site specific basis, under separate approval and to be reviewed by building official.

5. Windows are qualified for use with single glaze laminated glass types tabulated herein (see sheets #6, 7, or 8), and for use with double glaze laminated insulated glass types tabulated herein (see sheets #6, 7 or 8).

6. Windows with glass types “A,” “C,” or “G” installed above soft in the HVHZ, the 1.5’ exterior lite shall be tempered.

7. See sheet 4 for lock details & options.

8. See sheet 9 for glass types.

9. See sheet 6 for design pressures on “B0 or C0” windows.

10. See sheet 7 for design pressures on equal-lite “X0” windows.

11. See sheet 8 for design pressures on unequal-lite “X0” windows.

12. For optional frame installation details see sheets 3, 4, or 9.

13. Ext. & int. false Colonial muntins are optional & and are applied w/ silicone.

14. Wood bucks in contact with concrete must be pressure treated and anchored (by others), prior to window installation. (See sheet #4, 4 & 5 for details & notes) Wood bucks to be anchored in compliance with the FBC chapter 24 section 113.3.3.

15. Approval applies to single units or side by side mulled units.

16. See sheet #5 for mullion/metal attachment details, notes & options.

17. Mulling horizontal sliding windows with other types of Miami-Dade County approved windows using a Miami-Dade County approved Mullion in between are acceptable but the lower design pressure from the windows or Mullion approval will apply to the entire Mullied system.
1. ALL WOOD BUCKS ENGINEERED SEPARATELY & TO BE REVIEWED BY BLDG. OFFICIAL (TYP). 2. WOOD BUCK AND FRAMING (NOT BY LAWSON INDUSTRIES) MUST SUSTAIN LOADS IMPOSED BY THE GLAZING SYSTEM.

STUCCO OVER METAL LATH NAIL TO EXTERIOR GRADE PLYWOOD SHEATHING TO BE SPECIFIED BY ARCHITECT OR G.C. (EXTERIOR FINISH BY OTHERS) NOT BY LAWSON INDUSTRIES, INC.

1/4" S.M.S. W/ 1 1/4" MIN. EMBEDMENT INTO WOOD (SEE ELEVATION AT SHEET #2 FOR MAX. FASTENER SPACING)

WINDOW INSTALLATION NOTES:
1. THE WINDOW FRAME FLANGE TO BE BACK-BEDED W/ AN EXTERIOR GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP). 2. THE EXPOSED EXTERIOR PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP).

* WHEN THIS GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

ANCHORS NOTE:
ANCHORS TO BE #12 S.M.S OR W/L SCREWS INTO WOOD, OR 1/4" TAPCONS OR APPROVED CONC. FASTENERS INTO CONC. WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)
LOCK (LATCH AND SWEEP) OPTIONS

1. BOTH EXTRUDED ALUMINUM AND PLASTIC LIFT HANDLE LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS.
2. BOTH DIE CAST AND NYLON CAM LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS.
3. TWO (2) LOCKS ARE REQUIRED PER EACH VENT.

WINDOW INSTALLATION NOTES:
1. THE WINDOW FRAME FLANGE TO BE BECK-BEDED W/ AN EXT.
   GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE
   BY WINDOW INSTALLER (TYP.)
2. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO
   BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK
   BY OTHERS (TYP.)

* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR
  MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

ANCHORS NOTE:
ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR
1/4" TAPCONS OR APPROVED CONC. FASTENERS INTO CONC.,
WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR
CONC. REFER TO LOAD TABLES FOR QUANTITIES REQUIRED.
WINDOW INSTALLATION NOTES:

1. THE WINDOW FRAME FLANGE TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP).

2. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP).

* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

ANCHORS NOTE:

ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR 1/4" TAPCONS OR APPROVED CONC. FASTENERS INTO CONC., WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. REFER TO LOAD TABLES FOR QUANTITIES REQUIRED.

PRODUCT REVISED as complying with the Florida Building Code
NOA-No. 20-0813.06
Expiry Date: 04/11/2022
By: Miami Dade Product Control
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<th>H &amp; S Anchors</th>
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<th>Glass Type &quot;B&quot; (*2)</th>
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Notes (*):
1. See Sheet 9 for glass type, details & silicone options.
2. Standard sill used on windows with +70/-0 PSI and below (Windows with glass types A, B, C, D & F).
3. HS frame with galvanized steel for windows above +100 PSI (Windows with glass types E & F) and +200 PSI max. See HS frame detail "2" on Sheet 9 of 10.
4. Additional anchors required at frame head & sill on windows with 200 PSI above 20. See elevation at Sheet 2 of 10.
5. Windows with glass type A, C, or E installed above 200 foot in the high; the I.G. exterior lite shall be tempered.

PRODUCT REVISED
as complying with the Florida Building Code
HOA-No: 20-0813.06
Expiration Date: 04/11/2022

By: Manuel Simin
Miami-Dade Product Control
## DESIGN LOAD CAPACITY (PSF) - XOX WINDOWS with Un-Equal Lite (1/4, 1/2, 1/4)

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Notes (*):
1) SEE SHEET 9 FOR GLAZING TYPES, DETAILS & SILICONE OPTIONS.
2) STANDARD SILL USED FOR WINDOWS WITH +70.0 DP AND BELOW
   (WINDOWS WITH GLASS TYPES "A, B, C, & D")
3) HI RISE SILL ADE FOR WINDOWS ABOVE +70.0 DP
   (WINDOWS WITH GLASS TYPES "E, F, & G") AND +90.0 DP MAX.
   (SEE HI RISE SILL DETAIL "HI" AT SHEET 3 OF 10)
4) ADDITIONAL ANCHORS REQUIRED AT FRAME HEAD & SILL ON
   WINDOWS WITH DP ABOVE 70.0. (SEE ELEVATION AT SHEET 2 OF 10)
5) WINDOWS WITH GLASS TYPES "A, C, OR G" INSTALLED ABOVE 30FT.
   IN THE HVHZ, THE LG. EXTENSION LITE SHALL BE TEMPERED.
### PRODUCT REVISED
Expedition Class Code 2001.13.0.5

**Note:**

No date available.

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**Frame Size**

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**Glass Type:**

- Type “B” (2)
- Type “C” (2)
- Type “D” (2)
- Type “E” (3)
- Type “F” (3)

**Load Capacity:**

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**Manufacturer of Quality Aluminum Windows and Glass Doors**

**Lawson Industries, Inc.**

8501 N.W. 50 St.
Medley, Florida 33166

Ph No. (305) 696-8660

**HS-8700 Horizontal Rolling Flange Impact Window**

**Design Load Chart with Glass Options (XOX UN-EQUAL LITE)**

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**Revision:**

- A: Revised date for FBC 2015
- C: Compliance w/ FBC 5th Edition (2014)
- E: Compliance w/ FBC 7th Edition (2020)

**Drawn By:**

- N. Barad

**Checked By:**

- N. Barad

**Date Drawn:**

08/30/09

**Date Revised:**

7/31/10

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**Date:**

8/10
FRAME & SASH CORNER ASSEMBLY DETAILS