NOTICE OF ACCEPTANCE (NOA)

Rollingshield, Inc.
9875 N.W. 79th Avenue
Hialeah Gardens, Florida 33016

**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 High Velocity Hurricane Zone of the Florida Building Code.

**Description:** “RS-1 High Velocity” Aluminum Accordion Shutter System

**Approval Document:** Drawing No. 01-12 (RS1-06), titled “RS-1 High Velocity Shutter System”, sheets 1 through 9 of 9, & 2A of 9, prepared by V. M. Engineering, last revision #1 dated September 19, 2017, signed and sealed by Morgan Villanueva, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the 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, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS201, TAS-202, and TAS-203, 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 #16-0725.01 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4 & E-5 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

[Signature]

02/15/2018

NOA No. 17-0925.07
Expiration Date: 01/19/2022
Approval Date: 02/15/2018
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-0822.03
   A. DRAWINGS
      1. Drawing No. 06-003RS1, titled “RS-1 High Velocity Shutter System”, sheets 1
         through 9 of 9, prepared by V. M. Engineering, dated July 05, 2006, last revision
         #1 dated November 25, 2006, signed and sealed by Morgan Villanueva, P.E.

   B. TESTS
      1. See Association’s generic approval under 06-1826.

   C. CALCULATIONS:
      1. See Association’s generic approval under 06-1826.

   D. QUALITY CONTROL
      1. By Miami-Dade County Building Code Compliance Office.

   E. MATERIAL CERTIFICATION:
      1. See Association’s generic approval under 06-1826.

   F. STATEMENTS
      1. Release letter issued by National Shutter Association, dated October 19, 2006,
         certifying this product to meet the criteria of product tested and approved, and
         allowing Rollingshield, Inc. to use the test results approved under Miami-Dade
         County Approval No. 06-1826, signed by Jose Delgado.
      2. Acknowledgment letter by Rollingshield, Inc., dated October 27, 2006, signed by
         Jose Delgado.
      3. Letter issued by V. M. Engineering, dated October 19, 2006, certifying that the
         drawing (No. 06-003RS1) prepared for Rollingshield, Inc., signed and sealed by
         Morgan Villanueva, P.E. is engineering wise identical to National Shutter
         Association generic drawing (No. 06-004RS1).
      4. Acceptance Letter issued to Mr. Jose Delgado on December 10, 2006 and returned
         signed by Mr. Jose Delgado on December 11, 2006, indicating to please issue the
         proposed Notice of Acceptance as submitted and reviewed.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0206.03
   A. DRAWINGS
      1. Drawing No. 06-003RS1, titled “RS-1 High Velocity Shutter System”, sheets 1
         thru. 9 of 9, & 2A of 9, prepared by V. M. Engineering, dated 07/05/2006, last
         revision #2 dated 11/10/2006, signed and sealed by Morgan Villanueva, P.E. on
         02/02/07.

   Helmy A. Makar, P.E., M.S.
   Product Control Section Supervisor
   NOA No. 17-0925.07
   Expiration Date: 01/19/2022
   Approval Date: 02/15/2018

E - 1
NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

B. TESTS
   1. See Association’s generic approval under 06-2372.

C. CALCULATIONS:
   1. See Association’s generic approval under 06-2372.

D. QUALITY CONTROL
   1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATION:
   1. See Association’s generic approval under 06-2372.

F. STATEMENTS
   1. Release letter issued by National Shutter Association, dated October 19, 2006, certifying this product to meet the criteria of product tested and approved, and allowing Rollingshield, Inc. to use the test results approved under Miami-Dade County Approval No. 06-2372, signed by Jose Delgado.
   3. Letter issued by V. M. Engineering, dated October 19, 2006, certifying that the drawing (No. 06-003RS1) prepared for Rollingshield, Inc., signed and sealed by Morgan Villanueva, P.E. is engineering wise identical to National Shutter Association generic drawing (No. 06-004RS1), revision #2.
   4. Acceptance Letter issued to Mr. Jose Delgado on December 09, 2006 and returned signed by Mr. Jose Delgado on December 11, 2006, indicating to please issue the proposed Notice of Acceptance as submitted and reviewed.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0604.13

A. DRAWINGS
   1. Drawing No. 09-008RS1, titled “RS-1 High Velocity Shutter System”, sheets 1 thru. 9 of 9, & 2A of 9, prepared by V. M. Engineering, dated 05/14/2009, last revision #3 dated 05/14/2009, signed and sealed by Morgan Villanueva, P.E. on 05/27/09.

B. TESTS
   1. See Association’s generic approval under 09-0830.

C. CALCULATIONS:
   1. See Association’s generic approval under 09-0830.

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Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0925.07
Expiration Date: 01/19/2022
Approval Date: 02/15/2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY CONTROL
   1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATION:
   1. See Association's generic approval under 09-0830.

F. STATEMENTS
   1. Release letter issued by National Shutter Association, dated May 21, 2009, certifying this product to meet the criteria of product tested and approved, and allowing Rollingshield, Inc. to use the test results approved under Miami-Dade County Approval No. 09-0830, signed by Jose Delgado.

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #11-1227.04
A. DRAWINGS
   1. Drawing No. 12-2011(RS1-06), titled “RS-1 High Velocity Shutter System”, sheets 1 through 9 of 9, & 2A of 9, prepared by V. M. Engineering, dated 12/26/2011, last revision #4 dated 12/26/2011, signed and sealed by Morgan Villanueva, P.E.

B. TESTS
   1. See Association's generic approval under 12-0074.

C. CALCULATIONS:
   1. See Association's generic approval under 12-0074.

D. QUALITY CONTROL
   1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATION:
   1. See Association's generic approval under 12-0074.

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0925.07
Expiration Date: 01/19/2022
Approval Date: 02/15/2018
NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

F. STATEMENTS
1. Release letter issued by National Shutter Association, dated January 13, 2012, certifying this product to meet the criteria of product tested and approved, and allowing Rollingshield, Inc. to use the test results approved under Miami-Dade County Approval No. 12-0074, signed by Jose Delgado.

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #15-0505.01

A. DRAWINGS
1. Drawing No. 01-12 (RS1-06), titled “RS-1 High Velocity Shutter System”, sheets 1 through 9 of 9, & 2A of 9, prepared by V. M. Engineering. last revision #5 dated April 22, 2015, signed and sealed by Morgan Villanueva, P.E.

B. TESTS
1. None.

C. CALCULATIONS:
1. None.

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

E. MATERIAL CERTIFICATION:
1. None.

F. OTHERS
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #16-0725.01
   A. DRAWINGS
      1. None.
   B. TESTS
      1. None.
   C. CALCULATIONS:
      1. None.
   D. QUALITY CONTROL
      1. By Miami-Dade County Department of Regulatory and Economic Resources.
   E. MATERIAL CERTIFICATION:
      1. None.
   F. OTHERS
         Engineering, dated July 19, 2016, signed and sealed by Morgan Villanueva, P.E.

7. NEW EVIDENCE SUBMITTED
   A. DRAWINGS
      1. Drawing No. 01-12 (RS1-06), titled "RS-1 High Velocity Shutter System", sheets 1
         through 9 of 9, & 2A of 9, prepared by V. M. Engineering, last revision #1 dated
         September 19, 2017, signed and sealed by Morgan Villanueva, P.E.
   B. TESTS
      1. None.
   C. CALCULATIONS:
      1. None.
   D. QUALITY CONTROL
      1. By Miami-Dade County Department of Regulatory and Economic Resources.
   E. MATERIAL CERTIFICATION:
      1. None.
   F. OTHERS
         Engineering, dated Sept. 24, 2017, signed and sealed by Morgan Villanueva, P.E.

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0925.07
Expiration Date: 01/19/2022
Approval Date: 02/15/2018
GENERAL NOTES:


2. THE DESIGN LOADS COMPLY WITH SECTION 1620 OF THE FLORIDA BUILDING CODE EDITION 2017. THE WIND PRESSURES SHOWN IN THE TABLES ON SHEETS (6 OF 9) AND (7 OF 9) IN THIS DOCUMENT ARE AS PER FBE 2017 EDITION (ALLOWABLE SERVICE DESIGN), TO OBTAIN THE EQUIVALENT ULTIMATE WIND PRESSURES, SCALE THE WIND PRESSURES SHOWN IN THE TABLES ON SHEETS (6 OF 9) AND (7 OF 9) IN THIS DOCUMENT BY 0.6 FACTOR (ULTIMATE FACTOR DESIGN). IN ORDER TO VERIFY THAT ANCHORS ON THIS PRODUCT ARE PROPERLY PLACED, THEY ARE OVERDESIGNED, 35% INCREASE AND ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS, AND IN THE LABORATORY THE TEST LOAD WAS USED MORE THAN THE DESIGN LOAD.

3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T-6 ALLOY AND TEMPER, WITH Fy = 25.0 ksi MINIMUM UNLESS OTHERWISE NOTED.

4. ALL ANCHORS SHALL BE AS SHOWN ON SHEET 7.2.

5. ALL ANCHORS SHALL BE AS SHOWN ON SHEET 7.2.

6. ALL ANCHORS SHALL BE AS SHOWN ON SHEET 7.2.

7. CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS OF THE OPENINGS WHERE SHUTTER WILL BE INSTALLED TO ENSURE APPROPRIATE INSTALLATION.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR:
   - VERIFY THE EXISTING CONDITIONS OF THE STRUCTURE WHERE SHUTTER WILL BE INSTALLED TO PREVENT ANY DAMAGE TO EXISTING STRUCTURE.
   - SEA ALL Adjustable COMPONENTS ALL AROUND EDGES IN CONTACT WITH THE STRUCTURE TO PREVENT ANY DAMAGE DUE TO WIND AND RAIN
   - SELECT THE PROPER TYPE OF INSTALLATION TO PROVIDE APPROPRIATE WORKING LIFE OF THE PRODUCT.
   - IF IN ANY CASE CONTRACTOR NEEDS TO MAKE ANY MODIFICATION HE/ SHE SHOULD COMMUNICATE IMMEDIATELY TO ENGINEER OF RECORD BEFORE ANY ACTION.

9. ALL ANCHORS SHALL BE AS SHOWN ON SHEET 7.2.

10. ALL ANCHORS SHALL BE AS SHOWN ON SHEET 7.2.

11. ALL ANCHORS SHALL BE AS SHOWN ON SHEET 7.2.

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MALE/FEMALE BLADE DETAIL OF CLEAR PANEL LOCATION

MAXIMUM NUMBER OF CLEAR PANELS PER SHUTTER MUST NOT EXCEED FOUR (4) PER ACCORDION AND LOCATED TWO AT EACH SIDE OF THE CENTERMATES STARTED AT THIRD BLADE AFTER THE CENTERMATES AND THE SECOND ONE FOURTH BLADE AFTER, TYPICAL AT EACH SIDE OF THE SHUTTER.

CLEAR Panel SHALL BE LEXAN RESIN #103-112 (UV STABILIZED) OR EQUIVALENT COMPARABLE TO S.I. LEXAN POLYMER SHEET #90-34. THERMOPLASTIC POLYMER TENSILE STRENGTH FY=8.9ksi, Fe=12.9ksi, E=328.7ksi

TYPICAL CONNECTION WITH ALUMINUM PLATE
(ONLY FOR WINDOW SILL)
<table>
<thead>
<tr>
<th>Maximum Allowable Design Spans (l.f.)</th>
<th>Maximum Separation To Class (l.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sections 1 &amp; 2</td>
<td>Sections 3 &amp; 4</td>
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<td>Lw</td>
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<td>12'-4&quot;</td>
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<td>12'-4&quot;</td>
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<td>40</td>
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<td>195</td>
<td>0'-8&quot;</td>
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<tr>
<td>200</td>
<td>0'-4&quot;</td>
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</tbody>
</table>

Notes:
1. (a) Allowable span due to positive design load \( P = W/2 \) and \( Q = 0 \).
2. (b) Allowable span due to negative design load \( -Q = W/2 \).
3. (c) Determine allowable span.
4. Given positive load \( W/2 \) and negative load \( -W/2 \).
5. See Table.
6. Determine value of \( L \) and \( L_w \) from Table.
7. Final maximum allowable span shall be equal to the "minimum" of values of \( L \) and \( L_w \).
8. After the maximum allowable span check schedule Table 1 to obtain anchor spacing.
9. Recommended to select anchor spacing using negative design load \( Q = W/2 \).

Dual Nylon wheels with 0.40" by 1.15" Long Nylon Guide, with no l.d. marks, at top of interior slat spaced equally, fastened with one No. 14 by 3" hex head pan screws.

0.40" Diameter by 0.60" nylon guide, with no l.d. marks, at top and bottom of each exterior slat, fastened with one No. 14 by 3" hex head pan screws.

0.40" Diameter by 0.20" nylon guide, with no marks, at top and bottom of each interior slat, fastened with one No. 14 by 3" hex head pan screws.

A 1/16" Diameter by 24" long aluminum lock pin at top and bottom of each locking slat, fastened with one 10-24 by 0.40" long stove bolt screws.

Aluminum Notes:
A. Sections (1) & (2) on these groups can be combined and must be taken the lowest span.
B. Sections (3) & (2) on these groups can be combined and must be taken the lowest span.

To obtain ultimate wind pressure: Allowable wind pressure

Sample: For 1000 pounds allowable ultimate \( U = 150 \times 10^6 \text{lift} \) ft/lb
### Maximum Wind Load Design Pressure "W" and Corresponding Maximum Anchor Spacing (d) Schedule

<table>
<thead>
<tr>
<th>Maximum Allowable Design Load &quot;W&quot; (p.s.f.)</th>
<th>Wall Mounting Installation at Top or Bottom (Sections 1, 2 &amp; 3)</th>
<th>Ceiling &amp; Floor Mounting Installation at Top or Bottom (Sections 4 &amp; 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SHELTER SPAN</strong></td>
<td><strong>SHUTTER SPAN</strong></td>
<td><strong>SHUTTER SPAN</strong></td>
</tr>
<tr>
<td>LESS THAN 30.0</td>
<td>9</td>
<td>9</td>
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<td>FROM &gt;30.0 TO 60.0</td>
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<tr>
<td>FROM &gt;60.0 TO 70.0</td>
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<tr>
<td>FROM &gt;70.0 TO 80.0</td>
<td>8</td>
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<td>FROM &gt;80.0 TO 90.0</td>
<td>6</td>
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<td>FROM &gt;90.0 TO 100.0</td>
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<td>6</td>
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<tr>
<td>FROM &gt;100.0 TO 120.0</td>
<td>5</td>
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<td>FROM &gt;120.0 TO 140.0</td>
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<td>FROM &gt;140.0 TO 160.0</td>
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<td>FROM &gt;160.0 TO 180.0</td>
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<td>FROM &gt;180.0 TO 200.0</td>
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</tbody>
</table>

**ANCHOR LEGEND**
- HIGH WIND RESISTANT (HWR)
- MECHANICAL CLEAT (MC)
- ORANGE-FLEX 324
- Calk-IN

**EXISTING E. O. FACTOR**
- HIGH: 30
- MIDDLE: 2 7/16
- LOW: 2