



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

High Velocity Hurricane Protection Systems, Inc.  
3827 Progress Avenue  
Naples, Florida 34104-3647

### 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: "Category 5" Aluminum Accordion Shutter

**APPROVAL DOCUMENT:** Drawing No. 23-61977, titled "Category 5 Accordion Shutter System", sheets 1 through 5 of 5, prepared by Engineering Express, dated February 26, 2010, last revision dated September 21, 2023, signed and sealed by Frank L. Bennardo, P.E., on September 26, 2023, 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 TAS-201, 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 #20-1102.11 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, E-5, and E-6 as well as approval document mentioned above.

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



*Helmy A. Makar*  
12/28/2023

NOA No. 23-1010.09  
Expiration Date: 04/14/2024  
Approval Date: 12/28/2023  
Page 1

**High Velocity Hurricane Protection Systems, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-1220.03**

**A. DRAWINGS**

1. Drawing No. 04-04, titled "Category 5 Accordion Shutter System", sheets 1 through 4 of 4, prepared by Al-Farooq Corporation, dated February 28, 2004, last revision #A dated January 25, 2005, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

1. Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Category 5 Accordion Shutter System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-03-1842, dated August 18, 2003, signed and sealed by Rafael E. Droz-Seda, P.E.
2. Test report on Uniform Static Air Pressure Test of Category 5 Accordion Shutter System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-03-1843, dated August 18, 2003, signed and sealed by Rafael E. Droz-Seda, P.E.

**C. CALCULATIONS**

1. Anchor analysis dated March 23, 2004, Sheets A-1 through A-12 & AP-1 through AP-16, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**D. QUALITY ASSURANCE**

1. By Miami-Dade County Building Code Compliance Office.

**E. MATERIAL CERTIFICATIONS**

1. Certified Tensile Test Report from Hurricane Engineering & Testing Inc., Report No. HETI-03-T052, dated September 03, 2003, for aluminum accordion sample.

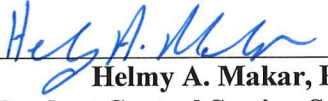
**F. STATEMENTS**

1. Statement letter of conformance by Al-Farooq Corporation, dated October 26, 2004, signed and sealed by Humayoun Farooq, P.E.

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0316.02**

**A. DRAWINGS**

1. Drawing No. 10-HVH-0001, titled "Category 5 Accordion Shutter System", sheets 1 through 5 of 5, prepared by Engineering Express, dated February 26, 2010, last revision dated April 30, 2010, signed and sealed by Frank L. Bennardo, P.E.


  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1010.09  
Expiration Date: 04/14/2024  
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**High Velocity Hurricane Protection Systems, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- B. TESTS**  
1. *None.*
- C. CALCULATIONS**  
1. *Anchor analysis dated March 07, 2010, Sheets 1 through 32 of 32, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.*
- D. QUALITY ASSURANCE**  
1. *By Miami-Dade County Building Code Compliance Office.*
- E. MATERIAL CERTIFICATIONS**  
1. *None.*
- F. STATEMENTS**  
1. *Statement letter of conformance by Engineering Express, dated March 11, 2010, signed and sealed by Frank L. Bennardo, P.E.*
- 3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0523.15**
- A. DRAWINGS**  
1. *Drawing No. 10-HVH-0001, titled "Category 5 Accordion Shutter System", sheets 1 through 5 of 5, prepared by Engineering Express, dated February 26, 2010, last revision dated January 15, 2012, signed and sealed by Frank L. Bennardo, P.E.*
- B. TESTS**  
1. *None.*
- C. CALCULATIONS**  
1. *None.*
- D. QUALITY ASSURANCE**  
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*
- E. MATERIAL CERTIFICATIONS**  
1. *None.*
- F. STATEMENTS**  
1. *Statement letter of compliance with FBC 2010 by Engineering Express, dated May 18, 2012, signed and sealed by Frank L. Bennardo, P.E.*

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1010.09  
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**High Velocity Hurricane Protection Systems, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 15-0323.03**

**A. DRAWINGS**

1. *Drawing No. 14-2100, titled "Category 5 Accordion Shutter System", sheets 1 through 5 of 5, prepared by Engineering Express, dated February 26, 2010, last revision dated March 17, 2015, signed and sealed by Frank L. Bennardo, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. STATEMENTS**

1. *Statement letter of compliance with FBC 2014 by Engineering Express, dated March 19, 2015, signed and sealed by Frank L. Bennardo, P.E.*

**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 16-0418.03**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**


1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1010.09  
Expiration Date: 04/14/2024  
Approval Date: 12/28/2023



**High Velocity Hurricane Protection Systems, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

6.

EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 17-0402.02

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*
7.

EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 18-0212.01

A. DRAWINGS

1. *Drawing No. 14-2100, titled "Category 5 Accordion Shutter System", sheets 1 through 5 of 5, prepared by Engineering Express, dated February 26, 2010, last revision dated February 23, 2018, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*


F. STATEMENTS

1. *Statement letter of compliance with FBC 2017 by Engineering Express, dated February 23, 2018, signed and sealed by Frank L. Bennardo, P.E.*
8.

EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 19-0411.03

A. DRAWINGS

1. *Drawing No. 14-2100, titled "Category 5 Accordion Shutter System", sheets 1 through 5 of 5, prepared by Engineering Express, dated 02/26/2010, last revision dated 02/23/2018, signed and sealed by Frank L. Bennardo, P.E. on 04/08/19.*

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1010.09  
Expiration Date: 04/14/2024  
Approval Date: 12/28/2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

- 1. Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Category 5 Accordion Shutter System, prepared by Hurricane Engineering & Testing, Inc., Report # HETI-19-7014, dated 03/29/19, signed & sealed by Rafael Droz-Seda, P.E.
- 2. Test report on Uniform Static Air Pressure Test of Category 5 Accordion Shutter System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-19-7013, dated March 29, 2019, signed and sealed by Rafael E. Droz-Seda, P.E.

C. CALCULATIONS

- 1. None.

D. QUALITY ASSURANCE

- 1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

- 1. None.

F. STATEMENTS

- 1. Statement letter of compliance with FBC 2017 by Engineering Express, dated February 23, 2018, signed and sealed by Frank L. Bennardo, P.E.

9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 20-1102.11

A. DRAWINGS

- 1. Drawing No. 20-29527, titled "Category 5 Accordion Shutter System", sheets 1 through 5 of 5, prepared by Engineering Express, dated 02/26/10, last revision dated 10/19/20, signed and sealed by Frank L. Bennardo, P.E., on 10/19/2020.

B. TESTS

- 1. None.

C. CALCULATIONS

- 1. None.

D. QUALITY ASSURANCE


- 1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

- 1. None.

F. STATEMENTS

- 1. Statement letter of compliance with FBC 2020 by Engineering Express, dated 10/19/20, signed and sealed by Frank L. Bennardo, P.E.

  
Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1010.09  
Expiration Date: 04/14/2024  
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

10. NEW EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Drawing No. 23-61977, titled "Category 5 Accordion Shutter System", sheets 1 through 5 of 5, prepared by Engineering Express, dated February 26, 2010, last revision dated September 21, 2023, signed and sealed by Frank L. Bennardo, P.E., on September 26, 2023.

B. TESTS

- 1. None.

C. CALCULATIONS

- 1. None.

D. QUALITY ASSURANCE

- 1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

- 1. None.

F. STATEMENTS

- 1. Statement letter of compliance with FBC 2023 by Engineering Express, dated 09/26/23, signed and sealed by Frank L. Bennardo, P.E.

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1010.09  
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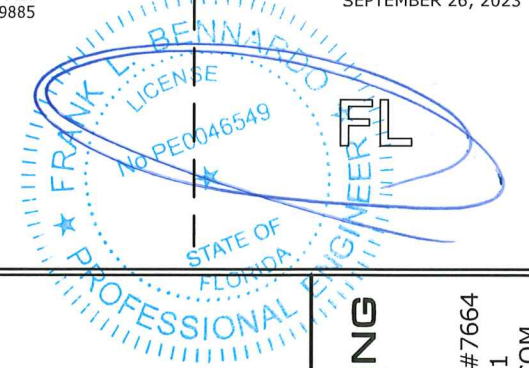
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3827 PROGRESS AVE. NAPLES, FL 34104

CATEGORY 5 ACCORDION SHUTTER SYSTEM  
FLORIDA BUILDING CODE EIGHTH EDITION (2023)  
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

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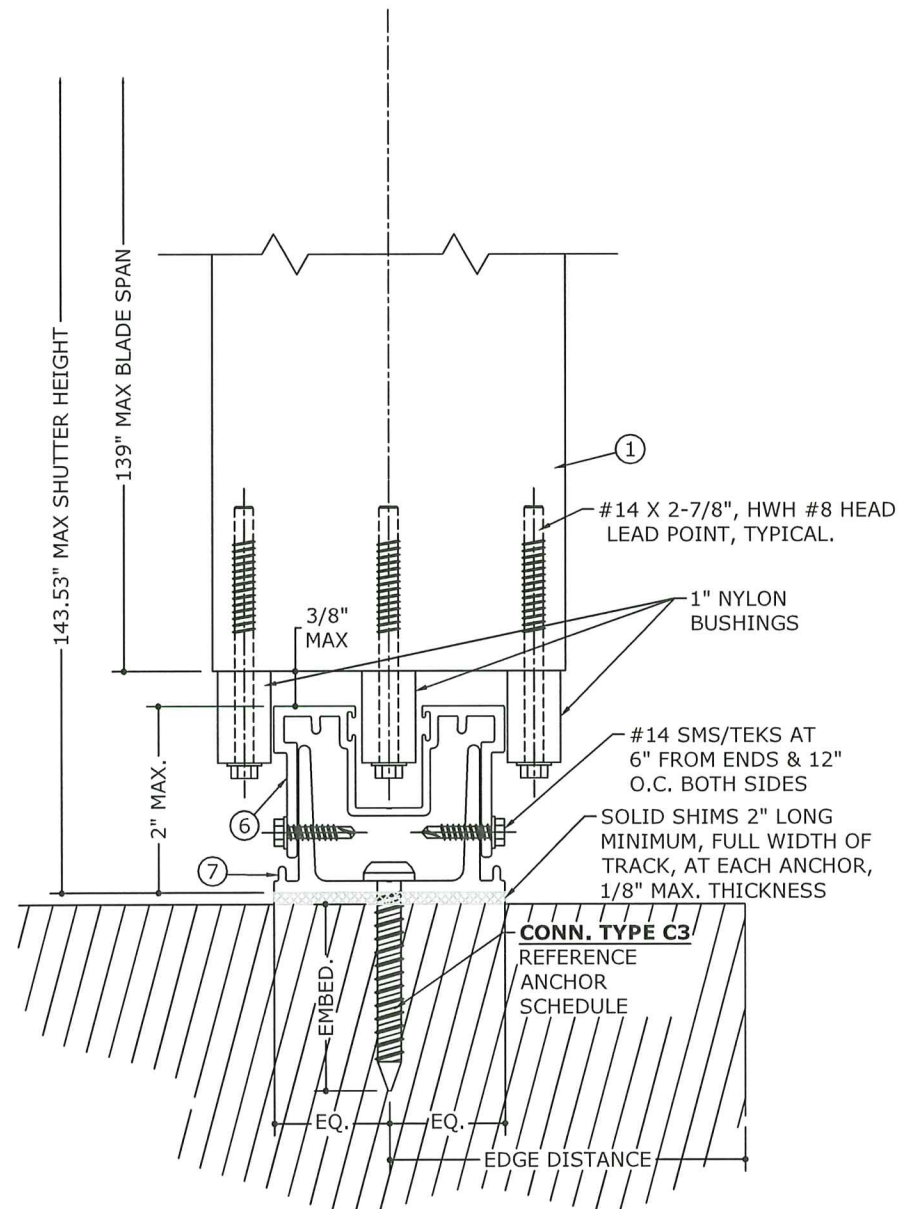
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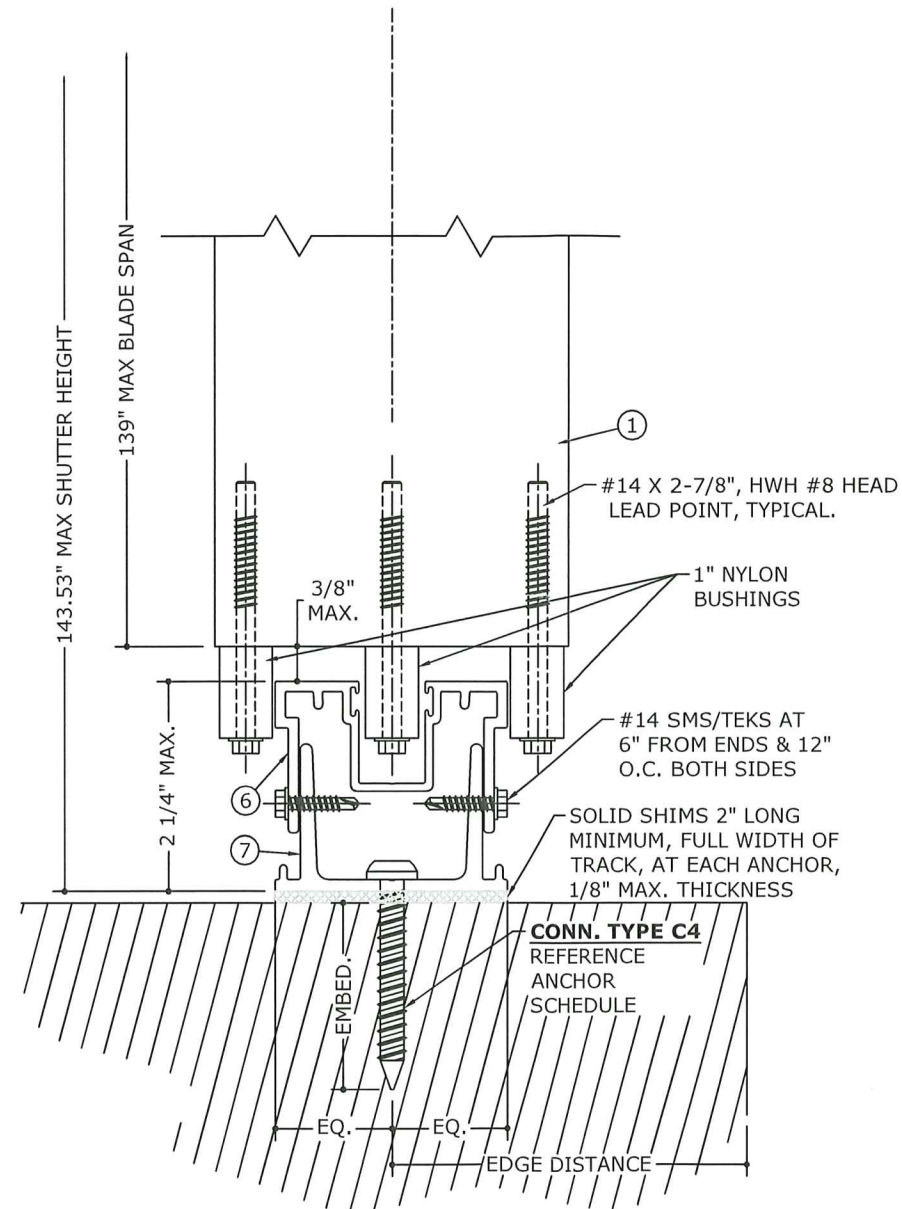
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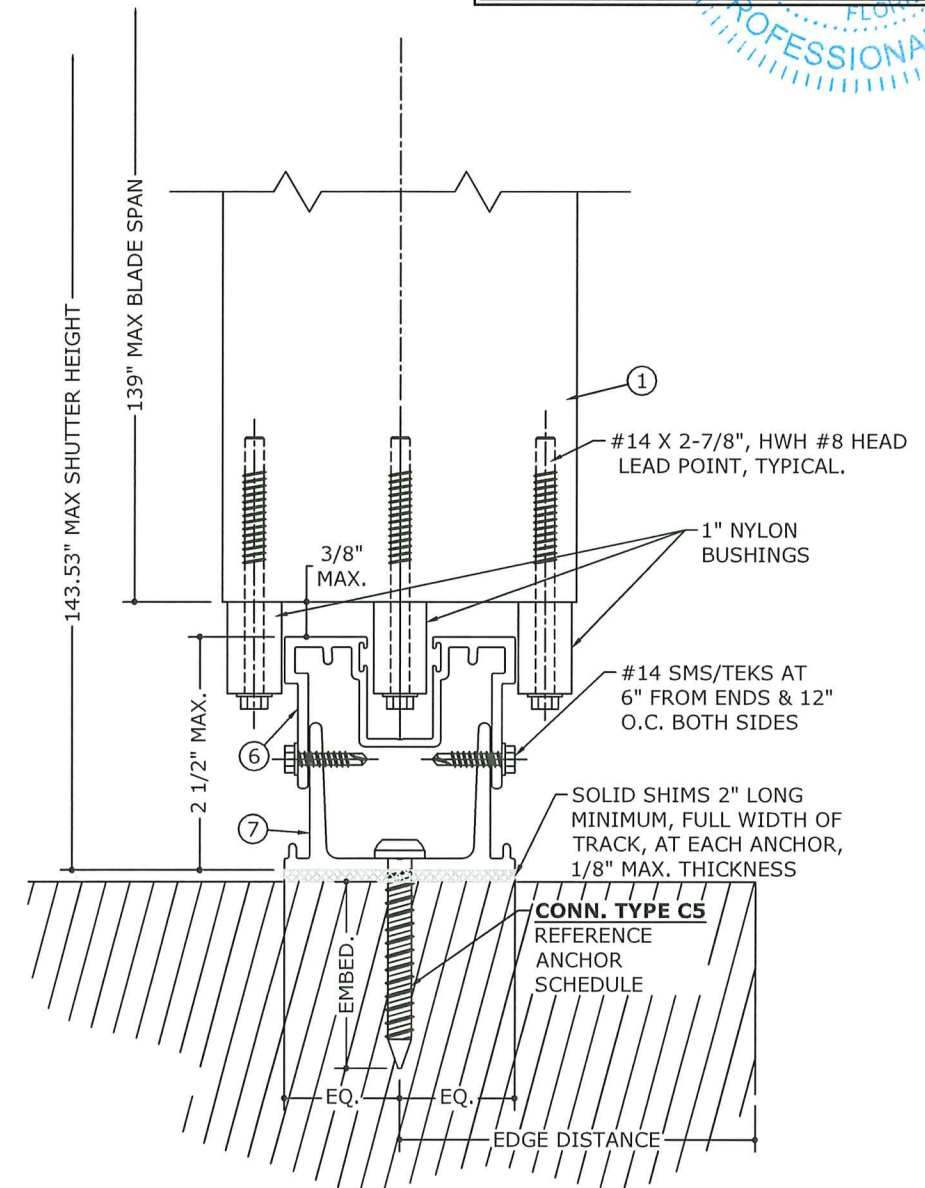
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# 1 ALT. BOTTOM MOUNT --- 3 N.T.S. VERT. SECTION



2 ALT. BOTTOM MOUNT  
3 N.T.S. VERT. SECTION



3 ALT. BOTTOM MOUNT  
3 N.T.S. VERT. SECTION

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. \_\_\_\_\_  
Expiration Date \_\_\_\_\_

By Hely A. Nahr  
Miami Dade Product Control





2234 NORTH FEDERAL HWY #7664  
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**HIGH VELOCITY HURRICANE  
PROTECTION SYSTEMS, INC.**  
3827 PROGRESS AVE. NAPIES, FL 34104

(239) 403-2650

CATEGORY 5 ACCORDION SHUTTER SYSTEM  
FLORIDA BUILDING CODE EIGHTH EDITION (2023)  
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOA)

| REMARKS                   | DRWN | CHKD | DATE     |
|---------------------------|------|------|----------|
| PREV. SUB. NOA 20-1102.11 | CCB  | RWN  | 10/19/20 |
| 2023 FBC UPDATE           | EPR  | RWN  | 09/21/23 |
| -                         | -    | -    | -        |
| -                         | -    | -    | -        |
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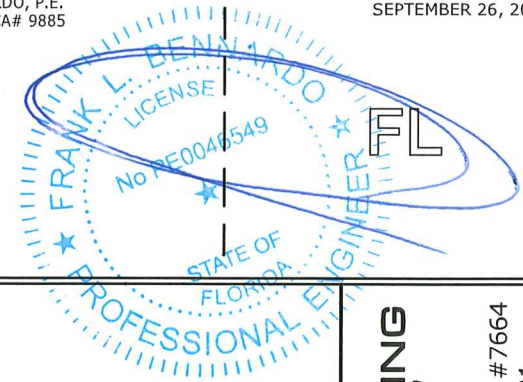
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# 3 ALT. END BASE ATTACHMENT --- 4 N.T.S. HORIZ. SECTION





### ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. EDGE DISTANCE OF 5/8" IS ACCEPTABLE FOR ANCHORS TO STEEL OR ALUMINUM.
3. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
4. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
5. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
6. ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED OTHERWISE SHALL APPLY.
7. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
8. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
9. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
10. MACHINE SCREWS SHALL BE INSTALLED WITH FULL ENGAGEMENT OF THREADS INTO METAL HOST STRUCTURE AND MAY HAVE EITHER A FLAT HEAD, PAN HEAD, TRUSS HEAD, OR OTHER HEAD STYLES.
11.  DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.

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CATEGORY 5 ACCORDION SHUTTER SYSTEM  
FLORIDA BUILDING CODE EIGHTH EDITION (2023)  
MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE (NOAC)

By H. A. Mahon  
Miami Dade Product Control

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23-61977

**SCALE: NTS UNLESS NOTED**

5 of 5