

# 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

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

### NOTICE OF ACCEPTANCE (NOA)

American Warming & Ventilating a div. of Mestek, Inc. 7301 International Drive Holland, OH 43528

#### 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

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:** Model LE-54 5" Aluminum Louver System

**APPROVAL DOCUMENT:** Drawing No. **1686-1**, titled "LE-54 Impact Louver System", sheets 1 through 10 of 10, dated 12/19/2024, prepared by American Warming & Ventilating a div. of Mestek, Inc., signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control renewal 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, model/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 **renews NOA # 25-0106.04** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMI-DADE COUNTY
APPROVED

NOA No. 25-0728.05 Expiration Date: January 6, 2031 Approval Date: September 4, 2025 Page 1

10/08/25

- 1. Evidence submitted under previous NOAs
- A. DRAWINGS "Submitted under NOA # 11-1117.15"
  - Drawing No. **1670**, titled "LE-54 Impact Louver System", sheets 1 through 10 of 10, dated 07/23/2009, with revision A1 dated 11/07/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
- B. TESTS "Submitted under NOA # 09-1015.10"
  - 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

along with marked-up drawings and installation diagram, of "EA-52 Aluminum Louver Systems", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0305-09**, dated 09/29/2009, signed and sealed by Vinu J. Abraham, P.E.

- 2. 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

along with marked-up drawings and installation diagram, of "EA-52 Aluminum Louver Systems", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0715-09**, dated 09/30/2009, signed and sealed by Vinu J. Abraham, P.E.

- C. CALCULATIONS "Submitted under NOA # 14-0513.08"
  - 1. Wood screw calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/14/2014, signed and sealed by Warren W. Schaefer, P.E.
    - "Submitted under NOA # 09-1015.10"
  - 2. Structural calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 10/06/2009, signed and sealed by Warren W. Schaefer, P.E.
- D. QUALITY ASSURANCE
  - 1. Miami-Dade Department of Regulatory and Economic Resources (RER)
- E. MATERIAL CERTIFICATIONS
  - 1. None.
- F. STATEMENTS "Submitted under NOA # 14-0513.08"
  - 1. Statement letter of code conformance to 2010 and 5<sup>th</sup> edition (2014) FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/14/2014, signed and sealed by Warren W. Schaefer, P.E.
  - 2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 04/14/2014, signed and sealed by Warren W. Schaefer, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 25-0728.05 Expiration Date: January 6, 2031

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#### 2. Evidence submitted under NOA # 17-0713.10

#### A. DRAWINGS

1. Drawing No. 1670, titled "LE-54 Impact Louver System", sheets 1 through 10 of 10, dated 07/23/2009, with revision B1 dated 07/05/2017, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, 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. None.

#### F. STATEMENTS

- 1. Statement letter of code conformance to the 5<sup>th</sup> Edition (2014) and 6<sup>th</sup> Edition (2017) FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 07/05/2017, signed and sealed by Warren W. Schaefer, P.E.
- 2. Company name change request letter issued by W.W. Schaefer Engineering & Consulting, P.A., dated 07/05/2017, signed by Warren W. Schaefer, P.E.

#### 3. Evidence submitted under NOA # 20-0622.20

#### A. DRAWINGS "Submitted under NOA # 19-0401.02"

1. Drawing No. **1670**, titled "LE-54 Impact Louver System", sheets 1 through 10 of 10, dated 07/23/2009, with revision C1 dated 03/14/2019, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

#### B. TESTS

1. None.

#### C. CALCULATIONS

1. None.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 25-0728.05 Expiration Date: January 6, 2031

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#### D. QUALITY ASSURANCE

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

#### E. MATERIAL CERTIFICATIONS

1. None.

#### F. STATEMENTS

- Statement letter of code conformance to the 6<sup>th</sup> edition (2017) and 7<sup>th</sup> edition (2020) of the FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 06/03/2020, signed and sealed by Warren W. Schaefer, P.E.
  - "Submitted under NOA # 19-0401.02"
- 2. Statement letter of no financial interest issued by W. W. Schaefer Engineering & Consulting, P.A., dated 03/14/2019, signed and sealed by Warren W. Schaefer, P.E.

#### 4. Evidence submitted under NOA # 23-0713.07

#### A. DRAWINGS

1. None.

#### B. TESTS

1. None.

#### C. CALCULATIONS

1. None.

#### D. QUALITY ASSURANCE

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

#### E. MATERIAL CERTIFICATIONS

1. None.

#### F. STATEMENTS

1. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) and 8<sup>th</sup> edition (2023) of the FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 07/01/2023, signed and sealed by Warren W. Schaefer, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-0728.05
Expiration Date: January 6, 2031
Approval Date: September 4, 2025

#### 5. EVIDENCE SUBMITTED UNDER NOA # 25-0106.04 AND NEW

#### A. DRAWINGS

1. Drawing No. 1686-1, titled "LE-54 Impact Louver System", sheets 1 through 10 of 10, dated 12/19/2024, prepared by American Warming & Ventilating a div. of Mestek, Inc., signed and sealed by Wayne K. Helmila, P.E.

#### B. TESTS

- 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

along with marked-up drawings and installation diagram, of "LE-54 Aluminum Louver Systems", prepared by Intertek, Report No. **S2995.01-109-18**, dated 07/14/2025, signed and sealed by Tanya A. Dolby, P.E.

#### C. CALCULATIONS

1. Louver A520 anchorage calculations, prepared by Rice Engineering, dated 01/02/2025, signed and sealed by Wayne K. Helmila, P.E.

#### D. QUALITY ASSURANCE

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

#### E. MATERIAL CERTIFICATIONS

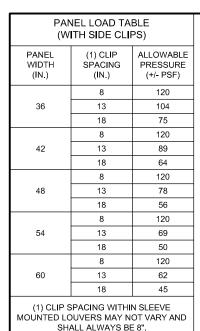
1. None.

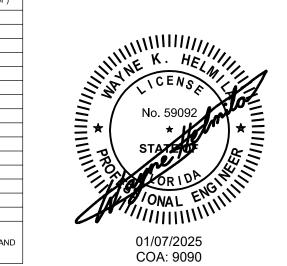
#### F. STATEMENTS

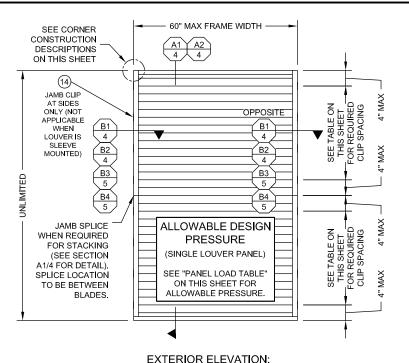
1. Statement letter of code conformance to the 8<sup>th</sup> edition (2023) of the FBC and of no financial interest, issued by Rice Engineering, dated 01/07/2025, signed and sealed by Wayne K. Helmila, P.E.

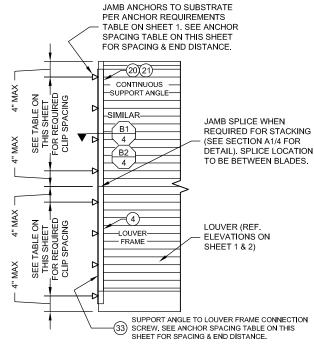
Carlos M. Utrera, P.E. Product Control Examiner NOA No. 25-0728.05 Expiration Date: January 6, 2031

**Approval Date: September 4, 2025** 









### INTERIOR ELEVATION: (OPTIONAL SIDE JAMB INSTALLATION WITH CONTINUOUS SIDE ANGLES)

(FOR DETAIL NOT SHOWN, SCALE: 1/2" = 1'-0" SEE OTHER ELEVATIONS)

#### **GENERAL NOTES**

- THESE LOUVER SYSTEMS HAVE BEEN TESTED, ANALYZED, & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE ALLOWABLE DESIGN PRESSURE TABLE(S)
- OPENINGS, BUCKING, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS SUPERIMPOSED BY THE
- ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR IMPACT, CYCLIC, & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202, & 203 FOR LARGE MISSILE IMPACT LOUVERS.
- THESE LOUVER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE LOUVER SYSTEMS.
- ALL ANCHORS SECURING LOUVER FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
- DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD. CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
- 11) EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:

AMERICAN WARMING AND VENTILATING BOWLING GREEN, OH MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

- THESE LOUVERS ARE NOT TESTED FOR WATER INFILTRATION RESISTANCE; THEREFORE THE LOUVERS ARE TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT COMPONENTS OR SUPPLIES.
- MULLED PANELS MAY BE HORIZONTALLY INSTALLED TO AN UNLIMITED NUMBER. VERTICAL STACKING OF MULLED PANELS MAY OCCUR PROVIDING A STRUCTURAL SUPPORT IS DESIGNED & INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERED FROM THE LOUVER ASSEMBLY (SINGLE PANELS MAY RUN TO UNLIMITED HEIGHT PER ELEVATION IF NO MULLION EXISTS)

# SCALE: 1/2" = 1'-0"

SINGLE WIDE LOUVER PANEL

(ARCHITECTURAL & NON-ARCHITECTURAL)

| ANCHOR REQUIREMENTS TABLE  |                                       |                    |           |           |  |  |
|--|---------------------------------------|--------------------|-----------|-----------|--|--|
| JAMB ANCHORS   |                                       |                    |           |           |  |  |
| SUBSTRATE  | FASTENER                              | QTY PER<br>SPACING | MIN.EMBED | MIN. EDGE |  |  |
| WOOD (MIN. GR. 3 & G=0.55)   | 1/4" DIA. S.S. LAG SCREW              | 2                  | 2-3/8"    | 1-1/2"    |  |  |
| A36 STEEL (MIN. 1/8" THK.)   | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 2                  | FULL      | 1/2"      |  |  |
| METAL STUD (MIN. 16 GA. 33 KSI)  | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 2                  | FULL      | 1/2"      |  |  |
| ALUMINUM (MIN. 1/8" THK. 6063-T5)  | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 2                  | FULL      | 1/2"      |  |  |
| CMU (MIN. C-90)  | 1/4 300 SERIES S.S. MASONRY SCREW     | 2                  | 2"        | 4"        |  |  |
| CONCRETE (MIN. 4000 PSI)   | 1/4" DIA. S.S. WEDGE ANCHOR           | 2                  | 1-3/4"    | 2"        |  |  |
| CONCRETE [ALT.] (MIN. 3000 PSI)  | 3/8" DIA. S.S. CONCRETE SCREW         | 1                  | 2"        | 2"        |  |  |
| N  | ON-REINFORCED MULLION END CLIP ANC    | HORS               |           |           |  |  |
| SUBSTRATE  | FASTENER                              | QTY PER CLIP       | MIN.EMBED | MIN. EDGE |  |  |
| WOOD (MIN. GR. 3 & G=0.55)   | 1/4" DIA. S.S. LAG SCREW              | 8                  | 2-3/8"    | 1-1/2"    |  |  |
| A36 STEEL (MIN. 1/8" THK.)   | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 8                  | FULL      | 1/2"      |  |  |
| METAL STUD (MIN. 16 GA. 33 KSI)  | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 8                  | FULL      | 1/2"      |  |  |
| ALUMINUM (MIN. 1/8" THK. 6063-T5)  | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 8                  | FULL      | 1/2"      |  |  |
| CONCRETE (MIN. 4000 PSI)   | 1/4" DIA. S.S. WEDGE ANCHOR           | 8                  | 1-3/4"    | 3-3/4"    |  |  |
| CONCRETE [ALT.] (MIN. 3000 PSI)  | 3/8" DIA. S.S. CONCRETE SCREW         | 8                  | 2-1/2"    | 3-1/2"    |  |  |
|  | TUBE MULLION END CLIP ANCHORS         |                    |           |           |  |  |
| SUBSTRATE  | FASTENER                              | QTY PER END        | MIN.EMBED | MIN. EDGE |  |  |
| WOOD (MIN. GR. 3 & G=0.55)   | 1/4" DIA. S.S. LAG SCREW              | 10                 | 2-1/4"    | 1-1/2"    |  |  |
| A36 STEEL (MIN. 1/8" THK.)   | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 8                  | FULL      | 1/2"      |  |  |
| METAL STUD (MIN. 16 GA. 33 KSI)  | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 8                  | FULL      | 1/2"      |  |  |
| ALUMINUM (MIN. 1/8" THK. 6063-T5)  | 1/4-14 300 SERIES Fy=65ksi S.S. SCREW | 8                  | FULL      | 1/2"      |  |  |
| CONCRETE (MIN. 3000 PSI)         1/2" S.S. WEDGE ANCHOR         2         3-3/4"         5"  |                                       |                    |           |           |  |  |
| Concrete screws shall be Hilti KWIK HUS-EZ stainless steel.     Cold to serve a health to Powell A serve Cate HWIL 200 Spring stainless steel. |                                       |                    |           |           |  |  |

- CMU screws shall be Dewalt Aggre-Gator HWH 300 Series stainless steel.
- Wedge anchors shall be Hilti KWIK Bolt TZ2 stainless steel.

LE-54 IMPACT

LOUVER SYSTEM

CMU is applicable at jambs only.

| PANEL ANCHOR SPACING/PRESSURE TABLE  |  |
|--------------------------------------|--|
| (WITH CONTINUOUS SIDE SUPPORT ANGLE) |  |

|  |             | (************************************** | 111100000         | IDE OOI I O | IXI ANOLL)   |                       |  |
|--|-------------|---|-------------------|-------------|--------------|-----------------------|--|
|  |             | ANGLE TO                                |                   | ANGLE TO    |              |                       |  |
|  | PANEL       | SUBSTRATI                               | SUBSTRATE ANCHORS |             | FRAME SCREWS |                       |  |
|  | WIDTH (IN.) | SPACING                                 | END DIST.         | SPACING     | END DIST.    | PRESSURE<br>(+/- PSF) |  |
|  |             | (IN.)                                   | (IN.)             | (IN.)       | (IN.)        |                       |  |
|  |             | 8                                       | 4                 | 4           | 2            | 120                   |  |
|  | 36          | 13                                      | 7 1/2             | 7 1/2       | 3 3/4        | 104                   |  |
|  |             | 18                                      | 9                 | 9           | 4 1/2        | 75                    |  |
|  |             | 8                                       | 4                 | 4           | 2            | 120                   |  |
|  | 42          | 13                                      | 7 1/2             | 7 1/2       | 3 3/4        | 89                    |  |
|  |             | 18                                      | 9                 | 9           | 4 1/2        | 64                    |  |
|  |             | 8                                       | 4                 | 4           | 2            | 120                   |  |
|  | 48          | 13                                      | 7 1/2             | 7 1/2       | 3 3/4        | 78                    |  |
|  |             | 18                                      | 9                 | 9           | 4 1/2        | 56                    |  |
|  |             | 8                                       | 4                 | 4           | 2            | 120                   |  |
|  | 54          | 13                                      | 7 1/2             | 7 1/2       | 3 3/4        | 69                    |  |
|  |             | 18                                      | 9                 | 9           | 4 1/2        | 50                    |  |
|  |             | 8                                       | 4                 | 4           | 2            | 120                   |  |
|  | 60          | 13                                      | 7 1/2             | 7 1/2       | 3 3/4        | 62                    |  |
|  |             | 18                                      | 9                 | 9           | 4 1/2        | 45                    |  |
|  |             |   |                   |             |              |                       |  |

NOTE: SINGLE LOUVER PANELS MAY BE STACKED/SPLICED VERTICALLY OR THE LOUVER PANEL MAY RUN VERTICALLY TO INFINITE HEIGHT PROVIDING OPENING IS PROPERLY DESIGNED BY OTHERS TO SUPPORT THE LOUVER PANELS.

#### SLEEVE SPLICING NOTE FOR SLEEVE MOUNTED LOUVERS:

SLEEVE MAY BE SPLICED ALONG HORIZONTAL OR VERTICAL RUNS PROVIDING SPLICE DOES NOT OCCUR WITHIN 12" OF ANY VERTICAL MULLION CENTERLINE.

#### **CORNER & BLADE END CONSTRUCTION:**

FRAME HEAD: HORIZONTAL MEMBER IS SQUARE CUT. BUTTED TO VERTICAL MEMBERS, & FASTENED WITH TWO (2) NO. 7 X 1-1/4" SMS HEX HEAD SCREWS INTO THE HORIZONTAL MEMBERS SCREW SPLINES.

FRAME SILL: VERTICAL MEMBERS ARE ANGLE CUT. BUTTED TO HORIZONTAL MEMBER, & FASTENED WITH TWO (2) NO. 7 X 1-1/4" SMS SCREWS INTO THE VERTICAL MEMBERS SCREW SPLINES.

BLADE END: HORIZONTAL BLADES ARE SQUARE CUT, BUTTED TO VERTICAL MEMBERS, & FASTENED WITH TWO (2) NO. 7 OR NO. 8 X 1-1/4" SMS SCREWS INTO THE BLADE SCREW SPLINES.

> THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS

# mmm.amv.com

A MESTEK COMPANY 219 S CHURCH STREET SUITE 200 BOWLING GREEN, OHIO 43402

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CERTIFICATION

**RICE** 

**ENGINEERING** 

105 School Creek Trail

Luxemburg, WI 54217 Phone: (920) 617-1042

Fax: (920) 617-1100

Florida Firm No: F-01000005061

Certificate of Authorization: #9090

www.rice-inc.com

Registration No. 59092

**PRODUCT RENEWED** as complying with the Florida Building Code 25-0728.05 NOA-No.

Expiration Date 01/06/2031

Miami-Dade Product Control

| REVISIONS |      | DATE: 19 DEC, 2024 | SHEET No.: |                 |                        |
|-----------|------|--------------------|------------|-----------------|------------------------|
| REV.      | DATE | DESCRIPTION        | BY         | DRAWN BY: MTC   | 1 of 10                |
|           |      |                    |            | CHECKED BY: JMC |                        |
|           |      |                    |            |                 | SCALE:<br>1/2" = 1'-0" |
|           |      |                    |            |                 | REV.                   |
|           |      |                    |            | 34656-STD       |                        |

#### MULLION ALLOWABLE DESIGN PRESSURE (NON-ARCHITECTURAL LOUVERS) ALLOWABLE PRESSURE MAXIMUM (+/- PSF) MULLION SPAN MAXIMUM LOAD WIDTH (IN.) (IN.) WITH NO TUBE WITH 4" X 3" X 3/16" WITH 4" X 3" X 1/4" TUBE MULLION TUBE MULLION 61.4 60 30.6 46.1 54 34.0 51.2 68.3 48 38.3 57.6 76.8 42 43.7 65.8 87.8 120 36 51.0 76.8 102.4 30 61.2 92.2 120.0 24 76.5 115.2 120.0 18 102.0 120.0 120.0 60 63.2 42.0 84.3 54 70.2 46.6 93.6 48 52.5 79.0 105.3 42 60.0 90.3 120.0 108 36 70.0 105.3 120.0 84.0 120.0 30 120.0 104.9 120.0 120.0 24 18 120.0 120.0 120.0 60 56.3 90.0 120.0 54 62.5 100.0 120.0 48 70.3 112.5 120.0 96 42 80.4 120.0 120.0 36 93.8 120.0 120.0 30 112.5 120.0 120.0 24 120.0 120.0 120.0 60 64.3 120.0 120.0 54 71.4 120.0 120.0 80.4 120.0 120.0 48 84 42 91.8 120.0 120.0 107.1 120.0 120.0 36 30 120.0 120.0 120.0 60 75.0 120.0 120.0 120.0 83.3 120.0 54 72 93.8 120.0 120.0 48 107.1 120.0 120.0 42 120.0 36 120.0 120.0

60

48

42

60

60

54

48

42

60

54

T. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH.

2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURE SHOWN IN THIS
TABLE & THAT SPECIFIED FOR THE INDIVIDUAL LOUVER PANEL.

90.0

100.0

112.5

120.0

112.5

120.0

120.0

120.0

120.0

120.0

120.0

120.0

120.0

120.0

120.0

120.0

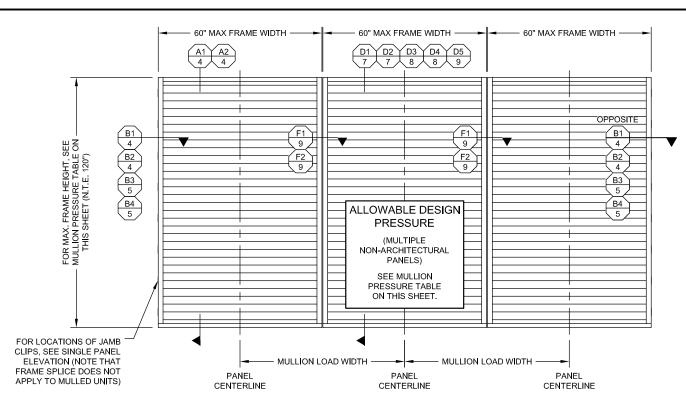
120.0

120.0

120.0

120.0

120.0



**EXTERIOR ELEVATION:** MULTIPLE LOUVER PANELS (NON-ARCHITECTURAL) SCALE: 1/2" = 1'-0"

(3 PANEL UNIT SHOWN; MORE THAN 3 PANELS MAY BE MULLED/STACKED HORIZONTALLY)

## **RICE**

#### **ENGINEERING**

105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092



01/07/2025 COA: 9090

www.awv.com

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CERTIFICATION

PRODUCT RENEWED as complying with the Florida Building Code 25-0728.05 NOA-No.

Expiration Date 01/06/2031

LE-54 IMPACT LOUVER SYSTEM

**REVISIONS** REV. DATE DESCRIPTION

DATE 19 DEC, 2024 DRAWN BY: MTC CHECKED BY: JMC

2 of 10 SCALE: 1/2" = 1'-0"

REV.

SHEET No.:

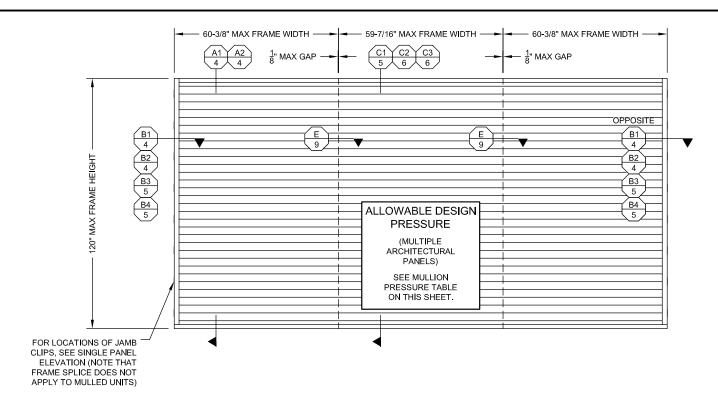
34656-STD

Miami-Dade Product Control

#### MULLION ALLOWABLE DESIGN PRESSURE (ARCHITECTURAL LOUVERS)

| MAXIMUM<br>MULLION<br>SPAN (IN.) | MAXIMUM LOAD<br>WIDTH (IN.) | ALLOWABLE PRESSURE<br>(+/- PSF) |
|----------------------------------|-----------------------------|---------------------------------|
|                                  | 60                          | 61.4                            |
|                                  | 54                          | 68.3                            |
| 120                              | 48                          | 76.8                            |
| 120                              | 42                          | 87.8                            |
|                                  | 36                          | 102.4                           |
|                                  | 30                          | 120.0                           |
|                                  | 60                          | 84.3                            |
| 108                              | 54                          | 93.6                            |
| 108                              | 48                          | 105.3                           |
|                                  | 42                          | 120.0                           |
| 96                               | 60                          | 120.0                           |
|                                  |                             |                                 |

<u>NOTES:</u> 1. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH. 2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT SPECIFIED FOR THE INDIVIDUAL LOUVER PANEL.



LE-54 IMPACT LOUVER SYSTEM

**EXTERIOR ELEVATION:** MULTIPLE LOUVER PANELS (ARCHITECTURAL) SCALE: 1/2" = 1'-0"

(3 PANEL UNIT SHOWN; MORE THAN 3 PANELS MAY BE MULLED/STACKED HORIZONTALLY)

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105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

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01/07/2025 COA: 9090

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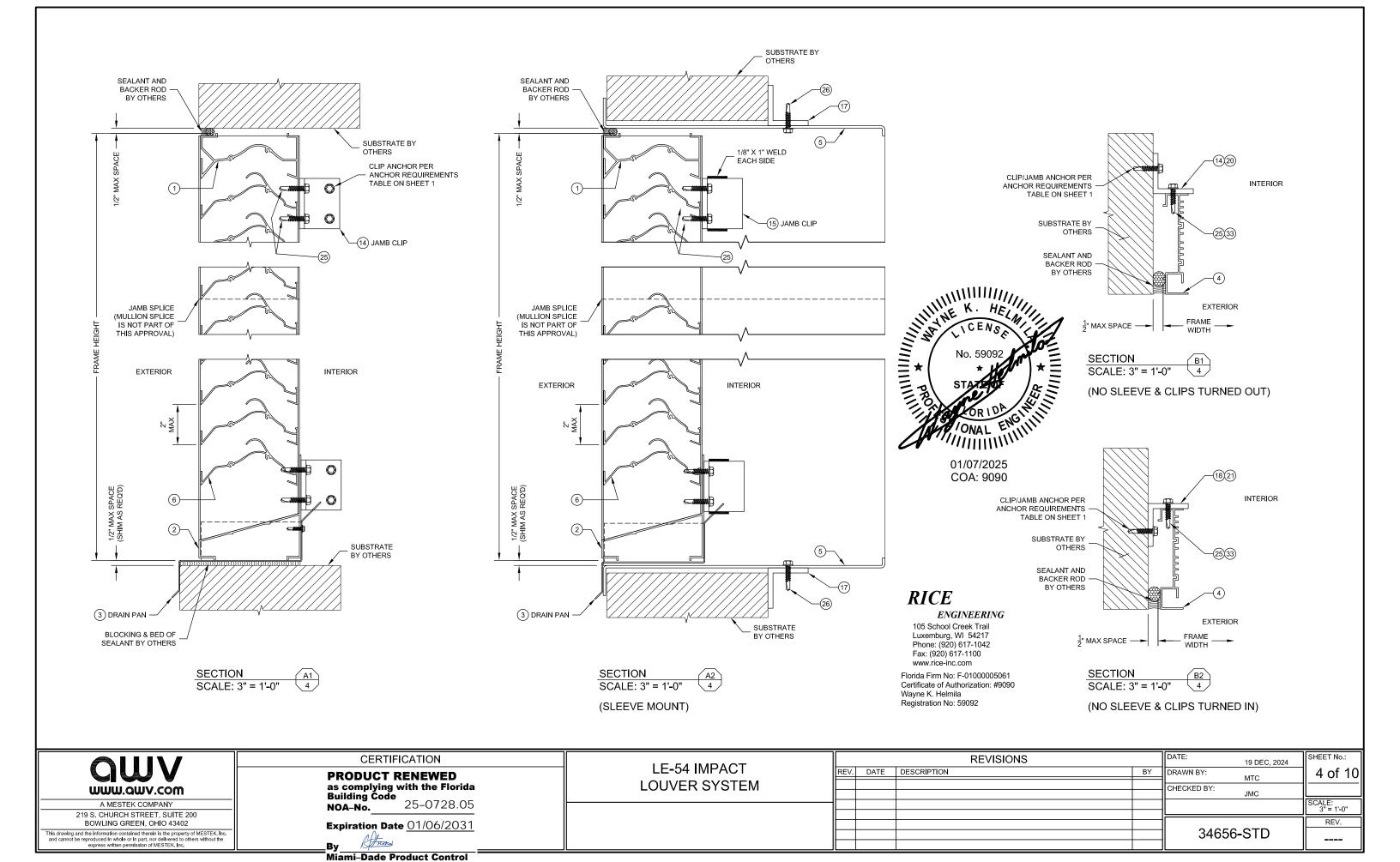
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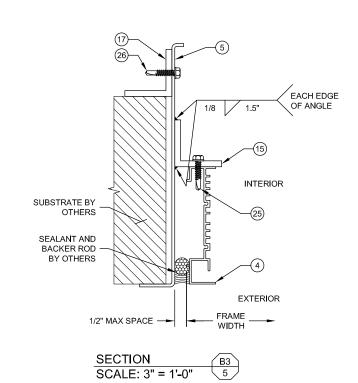
| CERTIFICATION            |                          |  |  |
|--------------------------|--------------------------|--|--|
| PRODUCT F                | RENEWED with the Florida |  |  |
| Building Code<br>NOA-No. | 25-0728.05               |  |  |

Expiration Date 01/06/2031

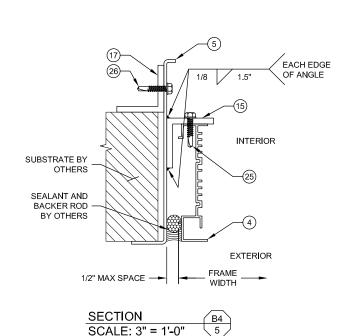
| Hun      |         |        |
|----------|---------|--------|
| ami–Dade | Product | Contro |

| $\prod$  | REVISIONS |             | DATE: 19 DEC, 2024 | SHEET No.:      |                        |
|----------|-----------|-------------|--------------------|-----------------|------------------------|
| RE\      | /. DATE   | DESCRIPTION | BY                 | DRAWN BY:       | 3 of 10                |
| $\Vdash$ |           |             |                    | CHECKED BY: JMC |                        |
| 忙        |           |             |                    |                 | SCALE:<br>1/2" = 1'-0" |
| $\vdash$ |           |             |                    |                 | REV.                   |
|          |           |             |                    | 34656-STD       |                        |
| II       |           |             |                    |                 | II .                   |

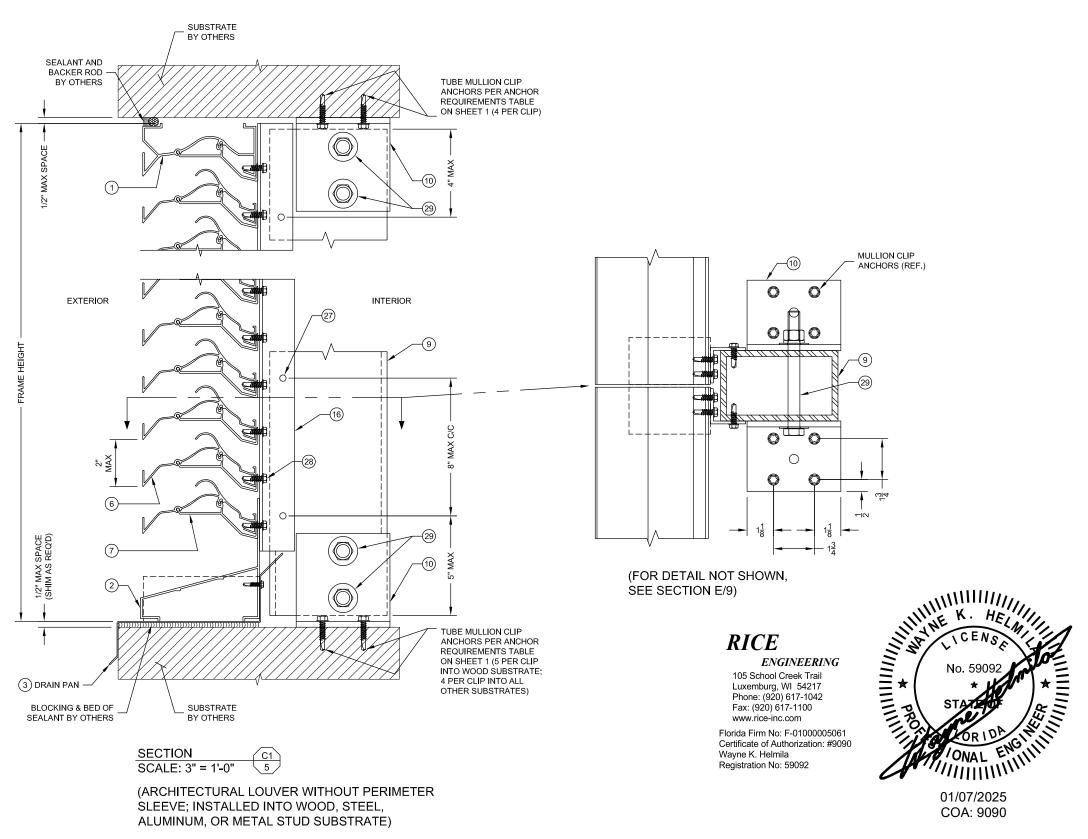




(WITH SLEEVE & CLIPS TURNED OUT)



(WITH SLEEVE & CLIPS TURNED IN)



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BOWLING GREEN, OHIO 43402

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CERTIFICATION

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-0728.05

Expiration Date 01/06/2031

LE-54 IMPACT LOUVER SYSTEM

|     |      |      | REVISIONS   |    | DATE:       | 19 DEC, 2024 | SHEET No.:           |
|-----|------|------|-------------|----|-------------|--------------|----------------------|
| ١   | REV. | DATE | DESCRIPTION | BY | DRAWN BY:   | мтс          | 5 of 10              |
| ١   |      |      |             |    | CHECKED BY: | JMC          |                      |
| ┨   |      |      |             |    |             |              | SCALE:<br>3" = 1'-0" |
| ١   |      |      |             |    |             |              | REV.                 |
| ١   |      |      |             |    | 34656-      | STD          |                      |
| - 1 |      |      |             |    |             |              |                      |

Miami-Dade Product Control

