

# 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)**

Arrow United Industries, a division of Mestek, Inc. 450 Riverside Drive Wyalusing, PA 18853

#### 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 EA-52 5" Aluminum Louver System**

**APPROVAL DOCUMENT:** Drawing No. **1685-1**, titled "EA-52 Impact Louver System", sheets 1 through 10 of 10, dated 12/19/2024, prepared by Arrow United Industries a division 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 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, 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 # 25-0106.05** 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. 25-0915.05 Expiration Date: January 6, 2031 Approval Date: October 9, 2025

Page 1

- 1. Evidence submitted under previous NOAs
- A. DRAWINGS "Submitted under NOA # 11-1117.10"
  - Drawing No. **1685**, titled "EA-52 Impact Louver System", sheets 1 through 10 of 10, dated 07/23/2009, with revision A1 dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
- B. TESTS "Submitted under NOA # 09-1015.09"
  - 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 #14-0513.07"
  - 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 # 09-1015.09"
  - 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 #14-0513.07"
  - 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. 25-0915.05 Expiration Date: January 6, 2031

Approval Date: October 9, 2025

#### 2. Evidence submitted under NOA # 17-0713.05

#### A. DRAWINGS

1. Drawing No. 1685, titled "EA-52 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.

#### 3. Evidence submitted under NOA #20-0622.16

#### A. DRAWINGS "Submitted under NOA # 19-0401.01"

1. Drawing No. **1685**, titled "EA-52 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.

#### D. QUALITY ASSURANCE

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

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 25-0915.05

Expiration Date: January 6, 2031 Approval Date: October 9, 2025

#### E. MATERIAL CERTIFICATIONS

1. None.

#### F. STATEMENTS

- 1. 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 # 19-0401.01"
- 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 # # 23-0713.10
- A. DRAWINGS
  - 1. None.
- 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 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 # 19-0401.01"
- 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.
- 3. 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. 25-0915.05 Expiration Date: January 6, 2031

Approval Date: October 9, 2025

#### 5. EVIDENCE SUBMITTED UNDER NOA # 25-0106.05 AND NEW

#### A. DRAWINGS

Drawing No. **1685-1**, titled "EA-52 Impact Louver System", sheets 1 through 10 of 10, dated 12/19/2024, prepared by Arrow United Industries a division 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 EA-52 Aluminum Louvers, prepared by Intertek, Report No. **S2995.03-109-18**, dated 08/12/2025, signed and sealed by Tanya A. Dolby, P.E.

#### C. CALCULATIONS

Louver A520 anchorage calculations, prepared by Rice Engineering, dated 01/13/2025, 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 01/14/2025, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 25-0915.05 Expiration Date: January 6, 2031

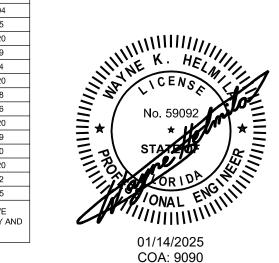
Approval Date: October 9, 2025

#### PANEL LOAD TABLE (WITH SIDE CLIPS) PANEL (1) CLIP ALLOWABLE WIDTH SPACING PRESSURE (IN.) (IN.) (+/- PSF) 120 36 13 104 75 18 120 42 89 13 64 18 120 8 48 13 78 18 56 120 8 54 69 13 18 50 8 120 62 60 13 45 18 (1) CLIP SPACING WITHIN SLEEVE

MOUNTED LOUVERS MAY NOT VARY AND

SHALL ALWAYS BE 8".

01/14/2025



#### 60" MAX FRAME WIDTH -SEE CORNER CONSTRUCTION DESCRIPTIONS ON THIS SHEET (14) JAMB CLIF AT SIDES ONLY (NOT OPPOSITE<sup>-</sup> APPLICABLE ∕B1\ WHEN LOUVER IS SLEEVE B2 4 B2 \ B3 \ 5 / ∕B3 \ B4 5 \_B4\_ ALLOWABLE DESIGN JAMB SPLICE WHEN REQUIRED PRESSURE FOR STACKING (SINGLE LOUVER PANEL) (SEE SECTION A1/4 FOR DETAIL) SEE "PANEL LOAD TABLE" SPLICE LOCATION ON THIS SHEET FOR TO BE BETWEEN ALLOWABLE PRESSURE. BLADES.

EXTERIOR ELEVATION:

SINGLE WIDE LOUVER PANEL

(ARCHITECTURAL & NON-ARCHITECTURAL)

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

JAMB ANCHORS TO SUBSTRATE PER ANCHOR REQUIREMENTS TABLE ON SHEET 1. SEE ANCHOR SPACING TABLE ON THIS SHEET FOR SPACING & END DISTANCE. (20)(21) CONTINUOUS -SUPPORT ANGLE -SIMII AR-JAMB SPLICE WHEN REQUIRED FOR STACKING 4 SEE SECTION A1/4 FOR DETAIL) SPLICE LOCATION TO BE BETWEEN BLADES LOUVER (REF -LOUVER-ELEVATIONS ON - FRAME SHEET 1 & 2) SUPPORT ANGLE TO LOUVER FRAME CONNECTION (33) SCREW. SEE ANCHOR SPACING TABLE ON THIS SHEET FOR SPACING & END DISTANCE.

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

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

(FOR DETAIL NOT SHOWN 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.
- 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)

# **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 Wavne K. Helmila Registration No: 59092

#### ANCHOR REQUIREMENTS TABLE JAMB ANCHORS QTY PER FASTENER MIN.EMBED | MIN. EDGE SUBSTRATE SPACING WOOD (MIN. GR. 3 & G=0.55) 1-1/2" 1/4" DIA, S.S. LAG SCREW 2-3/8" A36 STEEL (MIN. 1/8" THK.) 1/4-14 300 SERIES Ev=65ksi S.S. SCREW 1/2" FULL METAL STUD (MIN, 16 GA, 33 KSI) 1/4-14 300 SERIES Fv=65ksi S.S. SCREW FULL 1/2" ALUMINUM (MIN. 1/8" THK. 6063-T5) 1/4-14 300 SERIES Fv=65ksi S.S. SCREW FULL 1/2" CMU (MIN. C-90) 1/4 300 SERIES S.S. MASONRY SCREW 2" 4" CONCRETE (MIN. 4000 PSI) 2" 1/4" DIA. S.S. WEDGE ANCHOR 1-3/4" CONCRETE [ALT.] (MIN. 3000 PSI) 2" 3/8" DIA. S.S. CONCRETE SCREW 2" NON-REINFORCED MULLION END CLIP ANCHORS SUBSTRATE FASTENER QTY PER CLIP MIN.EMBED MIN. EDGE WOOD (MIN. GR. 3 & G=0.55) 1/4" DIA. S.S. LAG SCREW 2-3/8" 1-1/2" A36 STEEL (MIN. 1/8" THK.) 1/4-14 300 SERIES Fv=65ksi S.S. SCREW 1/2" FULL METAL STUD (MIN. 16 GA. 33 KSI) 1/4-14 300 SERIES Fy=65ksi S.S. SCREW FULL 1/2" ALUMINUM (MIN. 1/8" THK. 6063-T5) 1/4-14 300 SERIES Fy=65ksi S.S. SCREW FULL 1/2" CONCRETE (MIN. 4000 PSI) 1/4" DIA. S.S. WEDGE ANCHOR 1-3/4" 3-3/4" CONCRETE [ALT.] (MIN. 3000 PSI) 3/8" DIA. S.S. CONCRETE SCREW 3-1/2" 2-1/2" TUBE MULLION END CLIP ANCHORS SUBSTRATE FASTENER OTY PER END MIN.EMBED MIN. FDGE WOOD (MIN. GR. 3 & G=0.55) 1/4" DIA, S.S. LAG SCREW 1-1/2" A36 STEEL (MIN. 1/8" THK.) 1/4-14 300 SERIES Fy=65ksi S.S. SCREW FULL 1/2" METAL STUD (MIN. 16 GA. 33 KSI) 1/4-14 300 SERIES Fy=65ksi S.S. SCREW FULL 1/2" ALUMINUM (MIN. 1/8" THK. 6063-T5) 1/4-14 300 SERIES Fy=65ksi S.S. SCREW FULL 1/2" CONCRETE (MIN. 3000 PSI) 1/2" S.S. WEDGE ANCHOR 3-3/4" 5" Concrete screws shall be Hilti KWIK HUS-EZ stainless steel

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

**EA-52 IMPACT** 

LOUVER SYSTEM

CMU is applicable at jambs only.

,	SPACING	END DIST.	SPACING	END DIST.	(+/- PSF)
	(IN.)	(IN.)	(lN.)	(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

PANEL ANCHOR SPACING/PRESSURE TABLE

(WITH CONTINUOUS SIDE SUPPORT ANGLE)

ANGLE TO LOUVER

FRAME SCREWS

ALLOWABL

PRESSURE

62

45

ANGLE TO

SUBSTRATE ANCHORS

PANEL

WIDTH (IN.)

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.

7 1/2

3 3/4

4 1/2

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

7 1/2

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

### **ARROW UNITED INDUSTRIES**

A MESTEK COMPANY 450 RIVERSIDE DRIVE WYALUSING, PA 18853

This drawing and the information contained therein is the property of MESTEK, Inc. and cannot be reproduced in whole or in part, nor delivered to others without the sion of MESTEK, Inc.

PRODUCT RENEWED as complying with the Florida

**Building Code** 25-0915.05 NOA-No.

CERTIFICATION

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: 1/2" = 1'-0"
							REV.
					1685	5-1	

#### MULLION ALLOWABLE DESIGN PRESSURE (NON-ARCHITECTURAL LOUVERS) ALLOWABLE PRESSURE MAXIMUM (+/- PSF) MAXIMUM LOAD MULLION SPAN 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 68.3 54 34.0 51.2 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 84.3 42.0 54 46.6 70.2 93.6 48 52.5 79.0 105.3 42 60.0 90.3 120.0 108 36 70.0 105.3 120.0 84.0 120.0 120.0 30 104.9 120.0 120.0 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 75.0 120.0 120.0 120.0 120.0 83.3 54 72 93.8 120.0 120.0 48 107.1 120.0 42 120.0 120.0 36 120.0 120.0 60 90.0 120.0 120.0 54 100.0 120.0 120.0 60 48 112.5 120.0 120.0

48

42

60

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.

120.0

112.5

120.0

120.0

120.0

120.0

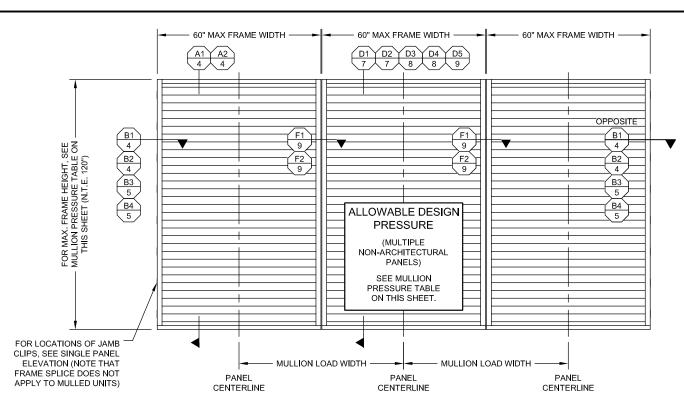
120.0

120.0

120.0

120.0

120.0



EA-52 IMPACT

LOUVER SYSTEM

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

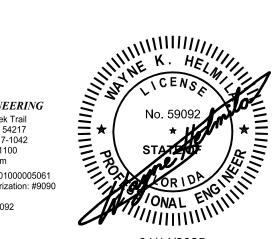
(3 PANEL UNIT SHOWN; MORE THAN 3 PANELS MAY BE MULLED/STACKED HORIZONTALLY)

## **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



01/14/2025 COA: 9090

### **ARROW UNITED INDUSTRIES**

A MESTEK COMPANY 450 RIVERSIDE DRIVE WYALUSING, PA 18853

This drawing and the information contained therein is the property of MESTEK, Inc. and cannot be reproduced in whole or in part, nor delivered to others without the express written permission of MESTEK, Inc.

PRODUCT RENEWED
as complying with the Florida
Building Code

CERTIFICATION

25-0915.05 NOA-No.

Expiration Date 01/06/2031

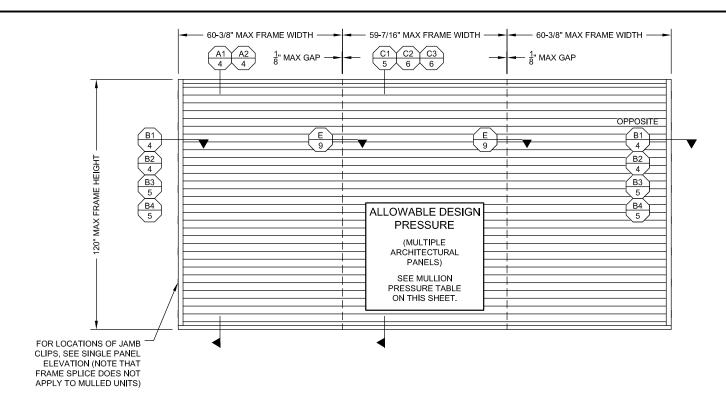
Miami-Dade Product Control

		REVISIONS		DATE: 19 DEC, 2024	SHEET No.:
REV.	DATE	DESCRIPTION	BY	DRAWN BY:	2 of 10
				CHECKED BY: JMC	
					SCALE: 1/2" = 1'-0"
					REV.
				1685-1	

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

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- 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
100	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.



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

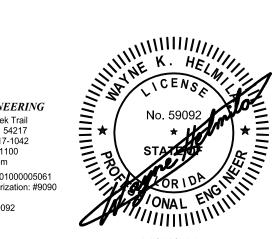
(3 PANEL UNIT SHOWN; MORE THAN 3 PANELS MAY BE MULLED/STACKED HORIZONTALLY)

# **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



01/14/2025 COA: 9090

SHEET No.:

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

REV.

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### **ARROW UNITED INDUSTRIES**

A MESTEK COMPANY 450 RIVERSIDE DRIVE WYALUSING, PA 18853

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CERTIFICATION				
PRODUCT RENEWED				
as complying with the Florida Building Code				
NOA-No.	25-0915.05			

**Expiration Date** <u>01/06</u>/2031

Miami-Dade Product Control

EA-52 IMPACT	
LOUVER SYSTEM	

		REVISIONS		DATE:	19 DEC, 2024
REV.	DATE	DESCRIPTION	BY	DRAWN BY:	MTC
				CHECKED BY:	
╟					JMC
				16	85-1

