



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

NOTICE OF ACCEPTANCE (NOA)

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/building

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 Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model EA-64 6" Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. **1464**, titled "EA-64 Louver System", sheets 1 through 15 of 15, dated 12/02/05, with revision **D1** dated 04/18/23, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren. W. Schaefer, 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: A permanent label with the manufacturer's name or logo, manufacturing plant's city, state, model/ series, and the statement reading: "Miami-Dade County Product Control Approved", is to be located on each unit.

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. 23-0426.02** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



Helmy A. Makar
09/14/2023

NOA No. 23-0713.12
Expiration Date: 04/22/2029
Approval Date: 09/14/2023

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. 05-1206.04)
2. Drawing No. 1464, titled "EA-64 Louver System", sheets 1 through 15 of 15, dated 12/02/05, with revision C1 dated 02/26/19, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren. W. Schaefer, P.E.
(Submitted under NOA No. 19-0306.02)

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 an EA-64 Louver, prepared by Intertek, Test Report No. J3223.01-109-18, dated 02/26/2019, signed and sealed by Daniel C. Culbert, P.E.
(Submitted under NOA No. 19-0306.02)

	<u>Test Report</u>	<u>Test Standard</u>	<u>Test Date</u>	<u>Signature</u>
2.	HTL 0198-0508-03	TAS 201,202 & 203	05/15-10/03	Vinu J.A braham, P.E.
3.	HTL.0198-0618-03	TAS 201, 202 & 203	06/06-25/03	Vinu J. Abraham, P.E.
4.	HTL 0198-0804-03	TAS 201, 202 & 203	08/06-08/03	Vinu J. Abraham, P.E.
5.	HTL 0198-0508-03	TAS 201, 202 & 203	05/08-13/03	Vinu J. Abraham, P.E.
6.	HTL 0198-0804-03	TAS 201, 202 & 203	08/08-11/03	Vinu J. Abraham, P.E.
7.	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-26/03	Vinu J. Abraham, P.E.
8.	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-04/16	Vinu J. Abraham, P.E.
9.	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-24/03	Vinu J. Abraham, P.E.
10.	HTL 0198-0324-03	TAS 201, 202 & 203	03/25-04/21	Vinu J. Abraham, P.E.
11.	HTL 0198-0128-03	TAS 201, 202 & 203	02/10-04/21	Vinu J. Abraham, P.E.
12.	HTL 0198-0508-03	TAS 202	05/13-13/03	Vinu J. Abraham, P.E.
13.	HTL 0198-0324-03	TAS 202	03/27-27/03	Vinu J. Abraham, P.E.
14.	HTL 0198-0324-03	TAS 201 & 203	03/24-04/21	Vinu J. Abraham, P.E.
15.	HTL G198-0101-05	TAS 201, 202 & 203	02/15/05	Vinu J. Abraham, P.E.
16.	AWV/AUI-011-02-01	TAS 100 (A)-95	05/13/08	Duc T. Nguyen, P.E.
17.	ATI 45720.03-122-18	TAS 100 (A)-95	01/16/09	Joseph A. Reed, P.E.

(Submitted under NOA No. 08-1224.03)

C. CALCULATIONS

1. Anchoring calculations dated 02/26/19, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-0713.12
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Arrow United Industries, a division of Mestek, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

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 **FBC 6th Edition (2017)** and **FBC 7th Edition (2020)**, dated 06/03/20, issued by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 20-0622.15)
2. Statement letter of no financial interest, dated 02/26/19, issued by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 19-0306.02)

G. OTHERS

1. Notice of Acceptance No. **19-0306.02**, issued to Arrow United Industries, a division of Mestek, Inc. for their Model EA-64 6" Aluminum Louver System, approved on 04/25/19 and expiring on 04/22/24.

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA # 23-0426.02

A. DRAWINGS

1. Drawing No. **1464**, titled "EA-64 Louver System", sheets 1 through 15 of 15, dated 12/02/05, with revision **D1** dated 04/18/23, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren. W. Schaefer, P.E.

B. TESTS

1. None.

C. CALCULATIONS

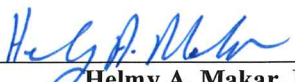
1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-0713.12
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Arrow United Industries, a division of Mestek, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. None.

G. OTHERS

1. Notice of Acceptance No. **20-0622.15**, issued to Arrow United Industries, a division of Mestek, Inc. for their Model EA-64 6" Aluminum Louver System, approved on 08/20/20 and expiring on 04/22/24.

3. NEW EVIDENCE SUBMITTED

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. Compliance Letter to the 7th Edition (2020) and the 8th Edition (2023) of the FBC, issued by W.W. Schaefer Engineering & Consulting, P.A., on 07/07/2023, signed and sealed by Warren W. Schaefer, P.E.

G. OTHERS

1. Notice of Acceptance No. **20-0622.15**, issued to Arrow United Industries, a division of Mestek, Inc. for their Model EA-64 6" Aluminum Louver System, approved on 08/20/20 and expiring on 04/22/24.



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-0713.12
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FASTENER SCHEDULE

ANCHOR TYPE	(5) SUBSTRATE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
(3) NO. 10 S.S. SCREW	WOOD	1 3/8"	3/4"
(6) NO. 10 SELF TAP SCREW	METAL STUD OR STEEL	FULL	3/4"
(1) 1/4" CONCRETE SCREW	C90 CONCR. BLOCK	1 1/4"	2 1/2"
(1) 1/4" CONCRETE SCREW	CONCRETE	1 1/2"	2"
(2) 1/4" BOLT	STEEL OR METAL STUD	FULL	3/4"
(4) 3/8" SLEEVE ANCHOR	CONCRETE	2 1/2"	2 1/2"
(2) 3/8" BOLT	STEEL	FULL	3/4"

- CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).
- BOLT SHALL BE MIN. A307 GALVANIZED OR 304 S.S. (Fv = 10,000 PSI MIN.)
- WOOD SCREWS SHALL HAVE MIN. YIELD STRENGTH OF Fyb = 80,000 PSI
- SLEEVE ANCHORS MAY BE GALVANIZED OR S.S. RAMSET RED HEAD DYNABOLTS OR POWERS RAWL POWER BOLT.
- SEE GENERAL NOTES FOR SUBSTRATE REQUIREMENTS.
- SELF TAPPING SCREWS SHALL BE CORROSION RESISTANT MIN. SAE GRADE 2 STEEL OR MIN. ALLOY GROUP 1, 2 & 3 CONDITION "A" STAINLESS STEEL.

CORNER & BLADE END CONSTRUCTION

BLADE TO JAMB:
WELDED CONDITION: BLADE END BUTTS TO JAMB, IS WELDED WITH ONE 1/8" X 5" WELD AND SCREWED TO JAMB WITH WITH 2 NO. 8 X 3/4" S.S. SMS SCREWS THROUGH JAMB AND INTO BLADE SCREW SPLINES.
SCREWED CONDITION: BLADE END BUTTS TO JAMB & IS SCREWED TO JAMB WITH TWO (2) 1/4"-20 X 1 1/2" TYPE "F" SCREWS THROUGH JAMB AND INTO BLADE SCREW SPLINES.
HEAD TO JAMB: HEAD FRAME IS SQUARE CUT, BUTTED AND JOINED TO JAMB WITH ONE 1/8" X 5" WELD AND 2 NO. 8 X 3/4" S.S. SMS SCREWS THROUGH JAMB AND INTO HEADER SCREW SPLINES.
SILL TO JAMB: SIDE JAMB BUTTS TO SILL AND IS JOINED TO SILL WITH THREE(3) 1/8" X 1" WELDS AND 2 NO. 8 X 3/4" S.S. SMS SCREWS THROUGH SILL AND INTO JAMB SCREW SPLINES.

GENERAL NOTES:

- 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 LOUVERS.
- THESE LOUVER SYSTEMS HAVE BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND PROTOCOLS TAS-100, 201, 202 & 203 INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS: ARROW UNITED INDUSTRIES
WYALUSING, PA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
- ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.55 DENSITY.
- ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. Fy = 33 ksi.
- ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 12 GA. Fy = 36 ksi.
- PANEL WIDTHS & HEIGHTS ARE LIMITED AS SHOWN IN ELEVATIONS.
- 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 TRANSFERRED FROM THE LOUVER ASSEMBLY (SINGLE PANELS MAY RUN TO UNLIMITED HEIGHT PER ELEVATION IF NO MULLION EXISTS).
- 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.
- THIS SYSTEM HAS BEEN TESTED FOR WATER INFILTRATION RESISTANCE AND IS A WATER RESISTANT SYSTEM WHEN THE LOUVER BLADE ENDS ARE SCREWED & WELDED AND THE DAMPER BLADE IS ATTACHED TO THE LOUVER BLADES AS SHOWN IN SECTION "A2/4" (NOT RATED FOR WATER RESISTANCE WHEN LOUVER BLADE ENDS ARE SCREW CONNECTED ONLY). THIS SYSTEM IS ALSO A WATER RESISTANT SYSTEM WHEN THE AFD-20 DAMPER IS PLACED BEHIND THE LOUVER.
- UNLESS THE DAMPER BLADE IS ATTACHED TO THE LOUVER BLADES OR THE AFD-20 DAMPER IS PLACED BEHIND THE LOUVER, THE LOUVER IS 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.
- ALL DETAILS OF SHEETS 10 THRU 15 MUST COMPLY WITH THE LOUVER DETAILS SHOWN ON SHEETS 1 THRU 9. ANY DISCREPANCY IS CONTROLLED BY THE DETAILS ON SHEETS 1 THRU 9.

JAMB SPLICE WHEN REQUIRED FOR STACKING (SEE SECTION A1/4 FOR DETAIL). SPLICE LOCATION TO BE BETWEEN BLADES.

INSTALLATION CLIP (AT SIDES ONLY)

EXTERIOR ELEVATION SINGLE LOUVER PANEL WITHOUT BLADE SUPPORT ANGLE

NOTE: 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.

INSTALLATION CLIPS ARE NOT APPLICABLE WHEN LOUVER IS SLEEVE MOUNTED

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **23-0426.02**
Expiration Date: **04/22/2029**
By: *Manuel Perez*
Miami-Dade Product Control

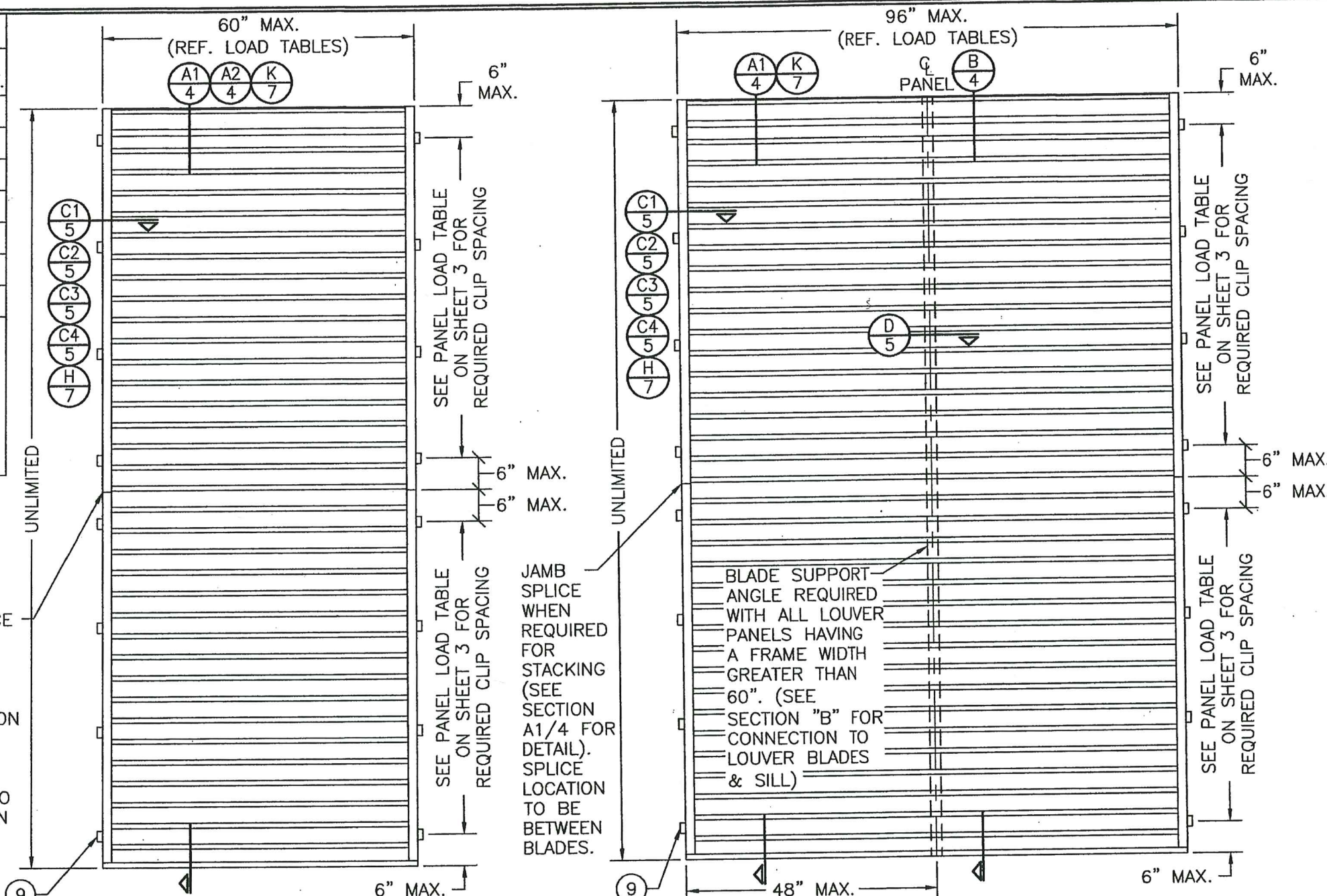
ALLOWABLE PRESSURES

PRESSURES VARY WITH PANEL SIZE, CLIP SPACING & MULLION CONDITIONS & SHALL BE CONTROLLED BY THE LESSER OF THE ALLOWABLE PRESSURE FOR EACH OF THOSE APPLICABLE CONDITIONS. SEE LOAD TABLES ON SHEET 3 FOR ALLOWABLE PRESSURES.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. **23-0713.12**
Expiration Date **04/22/2029**
By: *Heba M. M.*
Miami-Dade Product Control

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.

DRAWING NO. **1464** REV. **D**
SHEET NO. **1** OF **15**

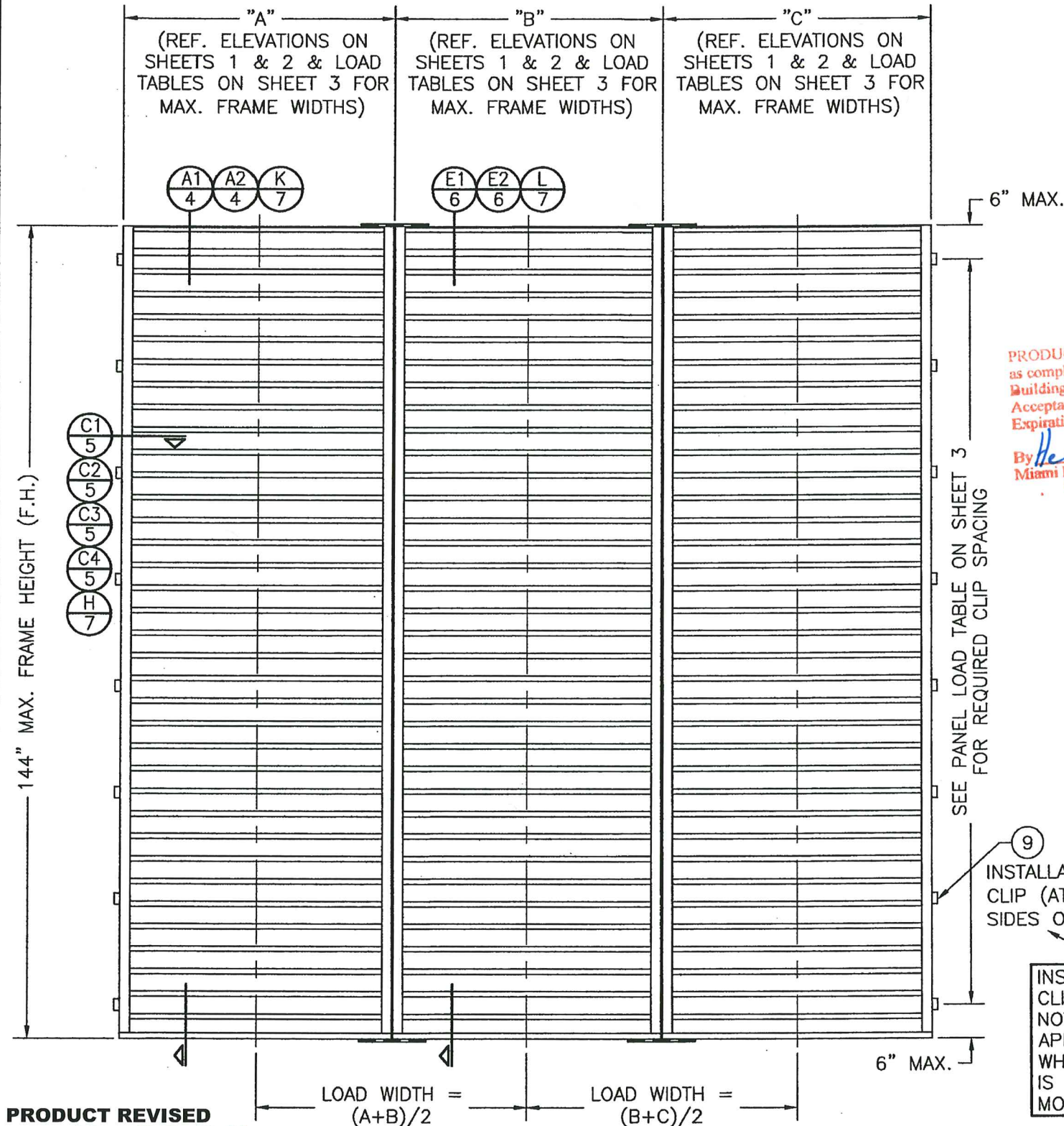


NO.	REVISION	DESCRIPTION	BY	DATE	DRAWN BY:	CHECKED BY:
1	1	1	1	11/07/11	W.R.M.	W.W.S.
2	2	2	2	07/05/17	W.W.S.	W.W.S.
3	3	3	3	02/26/19	W.W.S.	W.W.S.
4	4	4	4	04/19/23	W.W.S.	W.W.S.

EA-64 LOUVER SYSTEM
ARROW UNITED INDUSTRIES:
A DIVISION OF MESTEK, INC.
 450 RIVERSIDE DRIVE
 WYALUSING, PA 18853
 570-746-1888

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 26376 NADIR ROAD, UNIT 309
 PUNTA GORDA, FL 33983
 PHONE: 561-744-3424

WARRREN W. SCHAEFER, P.E.
 No. 44135
 LICENSED PROFESSIONAL ENGINEER
 STATE OF FLORIDA



PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. **23-0426.02**

Expiration Date: **04/22/2029**

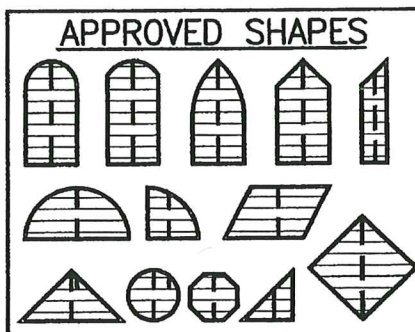
By: *Manuel Ferrer*
Miami-Dade Product Control

EXTERIOR ELEVATION MULLED UNITS

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

RECTANGULAR PANELS SHOWN; SHAPED PANELS MAY ALSO
BE MULLED PROVIDING THE MULLION END CONNECTIONS
ARE AS DETAILED WITH THE ABOVE RECTANGULAR ELEVATION.

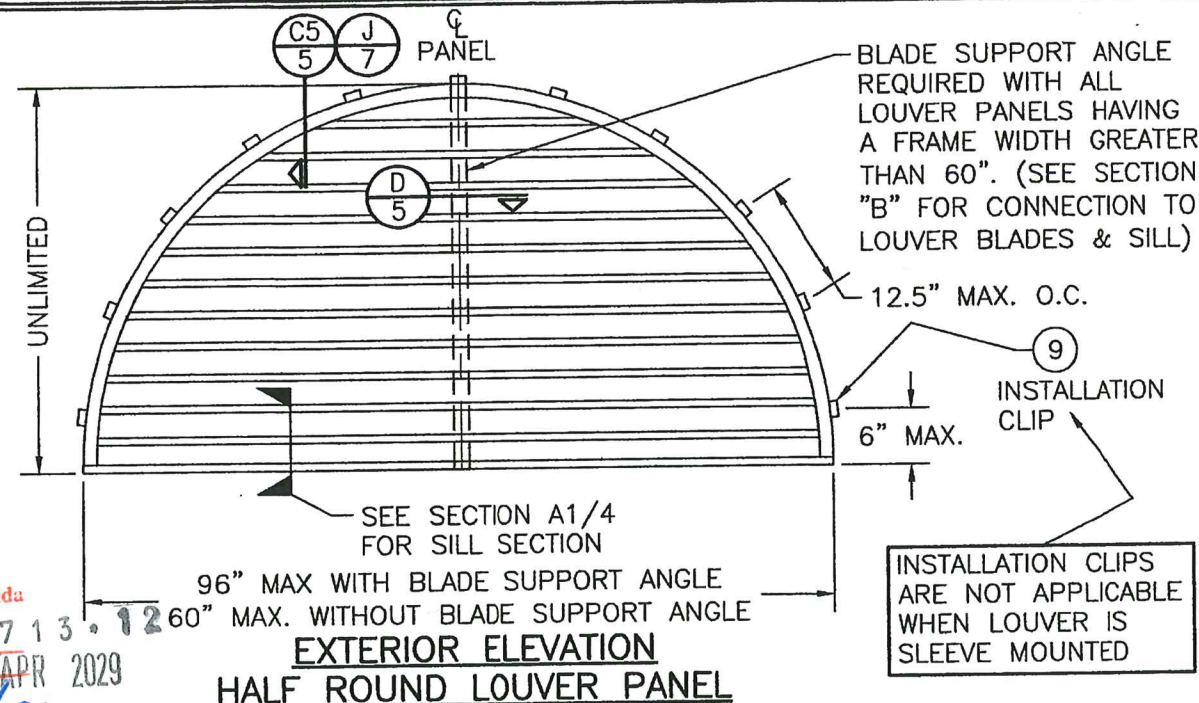
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **23-0713.12**
Expiration Date **22 APR 2029**
By: *Heidi A. Miller*
Miami-Dade Product Control



NOTES:

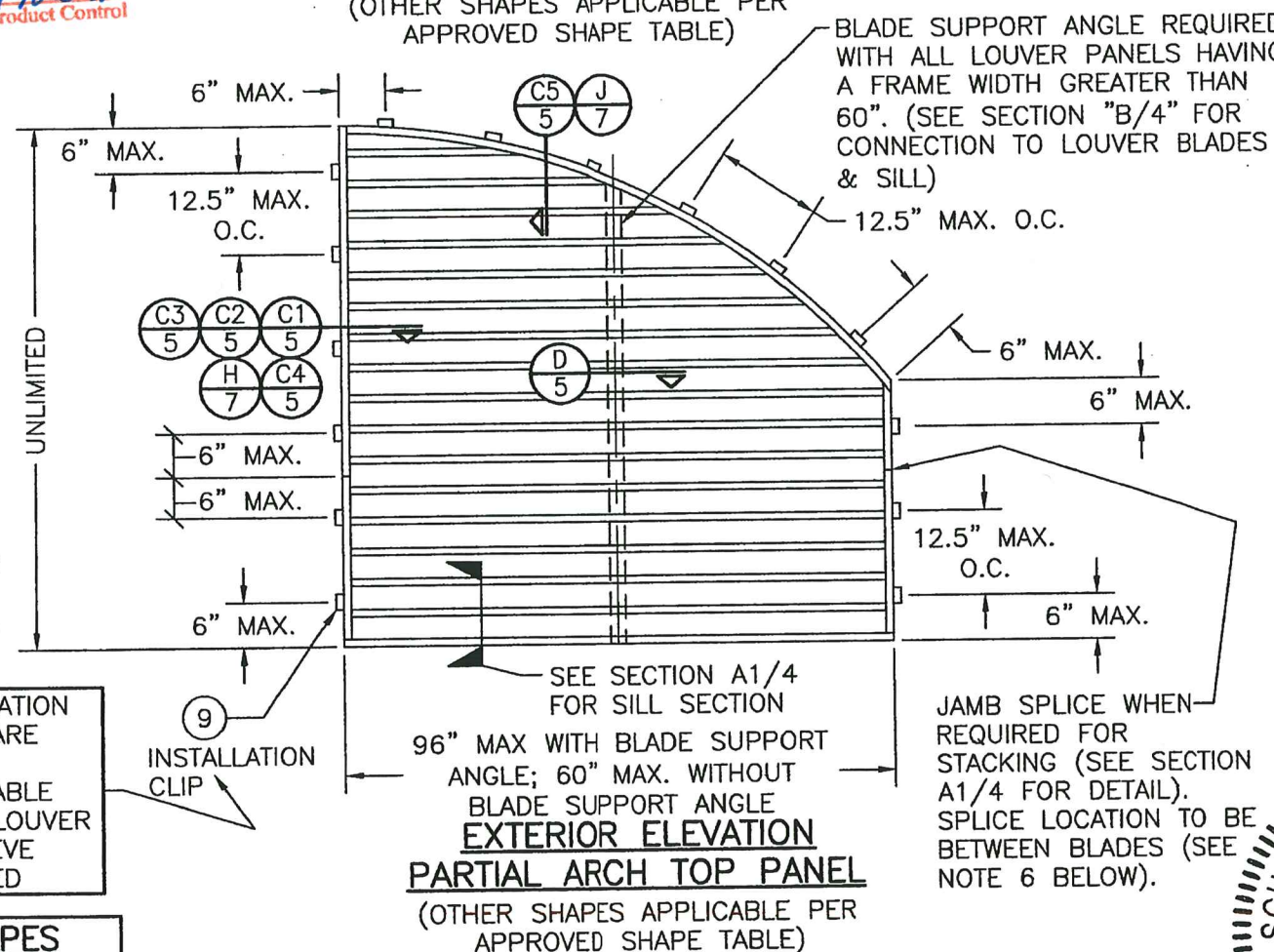
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE
SIMILAR TO THOSE SHOWN & HAVE CORNER
CONSTRUCTION AS DESCRIBED ON ALL SHEETS.
2. ALL SHAPED LOUVER PANELS ARE RESTRICTED TO
THE SAME PANEL WIDTHS & PRESSURE AS THE
RECTANGULAR LOUVER PANELS & MAY BE STACKED
VERTICALLY & HORIZONTALLY THE SAME AS THE
RECTANGULAR PANELS.
3. CLIP SPACING IS RESTRICTED TO 6" FROM ENDS &
12.5" MAX. O.C. FOR ALL SHAPED LOUVER PANELS.

4. WHEN BLADES EXCEED 60" IN LENGTH (UP TO 96"
BLADE SUPPORT ANGLE AND BRACKETS ARE REQUIRED
AT A MAXIMUM OF 48" FROM BLADE ENDS.
5. ALL OTHER SHAPES, EXCEPT SQUARE &
RECTANGULAR, MUST HAVE BLADE SUPPORT ANGLE AND
BRACKETS AT CENTER OF SPAN REGARDLESS OF BLADE
LENGTH.
6. SPLICES MAYNOT EXIST ON BENT OR SLOPED JAMBS.
ONLY STRAIGHT VERTICAL JAMBS MAY BE SPLICED.



EXTERIOR ELEVATION HALF ROUND LOUVER PANEL

(OTHER SHAPES APPLICABLE PER
APPROVED SHAPE TABLE)



EXTERIOR ELEVATION PARTIAL ARCH TOP PANEL

(OTHER SHAPES APPLICABLE PER
APPROVED SHAPE TABLE)

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=24	DATE:	12/02/05
DATE			
BY			
REVISION DESCRIPTION			
NO.			

MANUFACTURER
ARROW UNITED INDUSTRIES;
A DIVISION OF MESTEK, INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

CONSULTANTS
**W. SCHAEFER ENGINEERING
& CONSULTING, P.A.**
26376 NADIR ROAD, UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

DRAWING NO. **1464** REV. **D**
SHEET NO. **2 OF 15**

MULLION LOAD TABLE (SEE INSTRUCTIONS BELOW)											
MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)
18"	96"	180.0	60"	96"	65.7	84"	96"	47.0	120"	96"	32.9
24"	96"	164.3		90"	70.1		90"	50.1		90"	35.1
	90"	175.3		84"	75.1		84"	53.7		84"	37.6
	84"	180.0		78"	80.9		78"	57.8		78"	40.4
	96"	131.5		72"	87.6		72"	62.6		72"	43.8
30"	90"	140.2		66"	95.6		66"	68.3		66"	47.8
	84"	150.2		60"	105.2		60"	75.1		60"	52.6
	78"	161.8		54"	116.9		54"	83.5		54"	58.4
	72"	175.3		48"	131.5		48"	93.9		48"	65.7
36"	66"	180.0		42"	150.2		42"	107.3		42"	75.1
	96"	109.6	66"	36"	175.3		36"	125.2		36"	87.6
	90"	116.9		30"	180.0		30"	150.2		30"	105.2
	84"	125.2		96"	59.8	96"	24"	180.0		24"	131.5
	78"	134.8		90"	63.7		96"	41.1	132"	18"	175.3
	72"	146.1		84"	68.3		90"	43.8		96"	27.2
	66"	159.3		78"	73.5		84"	47.0		90"	29.0
	60"	175.3		72"	79.7		78"	50.6		84"	31.1
42"	54"	180.0		66"	86.9		72"	54.8		78"	33.5
	96"	93.9		60"	95.6		66"	59.8		72"	36.3
	90"	100.2		54"	106.2		60"	65.7		66"	39.6
	84"	107.3		48"	119.5		54"	73.0		60"	43.6
	78"	115.6		42"	136.6		48"	82.2		54"	48.4
	72"	125.2		36"	159.3		42"	93.9		48"	54.4
	66"	136.6	72"	30"	180.0		36"	109.6		42"	62.2
	60"	150.2		96"	54.8		30"	131.5		36"	72.6
48"	54"	166.9		90"	58.4		24"	164.3		30"	87.1
	48"	180.0		84"	62.6		18"	180.0		24"	108.9
	96"	82.2		78"	67.4	108"	96"	36.5	144"	18"	145.2
	90"	87.6		72"	73.0		90"	39.0		72"	28.0
	84"	93.9		66"	79.7		84"	41.7		66"	30.5
	78"	101.1		60"	87.6		78"	44.9		60"	33.5
	72"	109.6		54"	97.4		72"	48.7		54"	37.3
	66"	119.5		48"	109.6		66"	53.1		48"	41.9
	60"	131.5		42"	125.2		60"	58.4		42"	47.9
	54"	146.1		36"	146.1		54"	64.9		36"	55.9
	48"	164.3									


1. DETERMINE REQUIRED DESIGN PRESSURE OF THE LOUVER ASSEMBLY.
2. DETERMINE THE REQUIRED MULLION SPAN OF THE LOUVER ASSEMBLY.
3. DETERMINE THE PANEL WIDTH "A" & "B" AND THE MULLION LOAD WIDTH.
4. GO TO THE MULLION LOAD TABLE AND CHECK THE ALLOWABLE PRESSURE FOR THE RESPECTIVE MULLION SPAN/LOAD WIDTH.
5. GO TO THE PANEL LOAD TABLE AND CHECK THE ALLOWABLE PRESSURE FOR EACH PANEL WIDTH.
6. IF ALL THE ALLOWABLE PRESSURES OF INSTRUCTIONS 4 & 5 ARE GREATER THAN THE REQUIRED DESIGN PRESSURE, THE ASSEMBLY IS ACCEPTABLE.
7. IF ANY ALLOWABLE PRESSURE OF INSTRUCTIONS 4 & 5 ARE LESS THAN THE REQUIRED DESIGN PRESSURE, THE ASSEMBLY IS NOT ACCEPTABLE UNLESS THE ASSEMBLY SIZE OR PRESSURE IS REDUCED AND INSTRUCTIONS FROM 1 TO 7 ARE FOLLOWED AGAIN.

PANEL WIDTH (IN.)	(1) CLIP SPACING (IN.)	(2) ALLOWABLE PRESSURE (+/- PSF)	PANEL WIDTH (IN.)	(1) CLIP SPACING (IN.)	(2) ALLOWABLE PRESSURE (+/- PSF)
36"	12.5"	180.0	72"	12.5"	100.0
	20"	127.3		20"	63.6
42"	12.5"	154.3	78"	12.5"	92.3
	20"	109.1		20"	58.7
48"	12.5"	120.0	84"	12.5"	85.0
	20"	95.5		20"	54.5
54"	12.5"	106.7	90"	12.5"	80.0
	20"	84.8		20"	50.9
60"	12.5"	90.0	96"	12.5"	75.0
	20"	76.4		20"	47.7
66"	12.5"	109.1			
	20"	69.4			

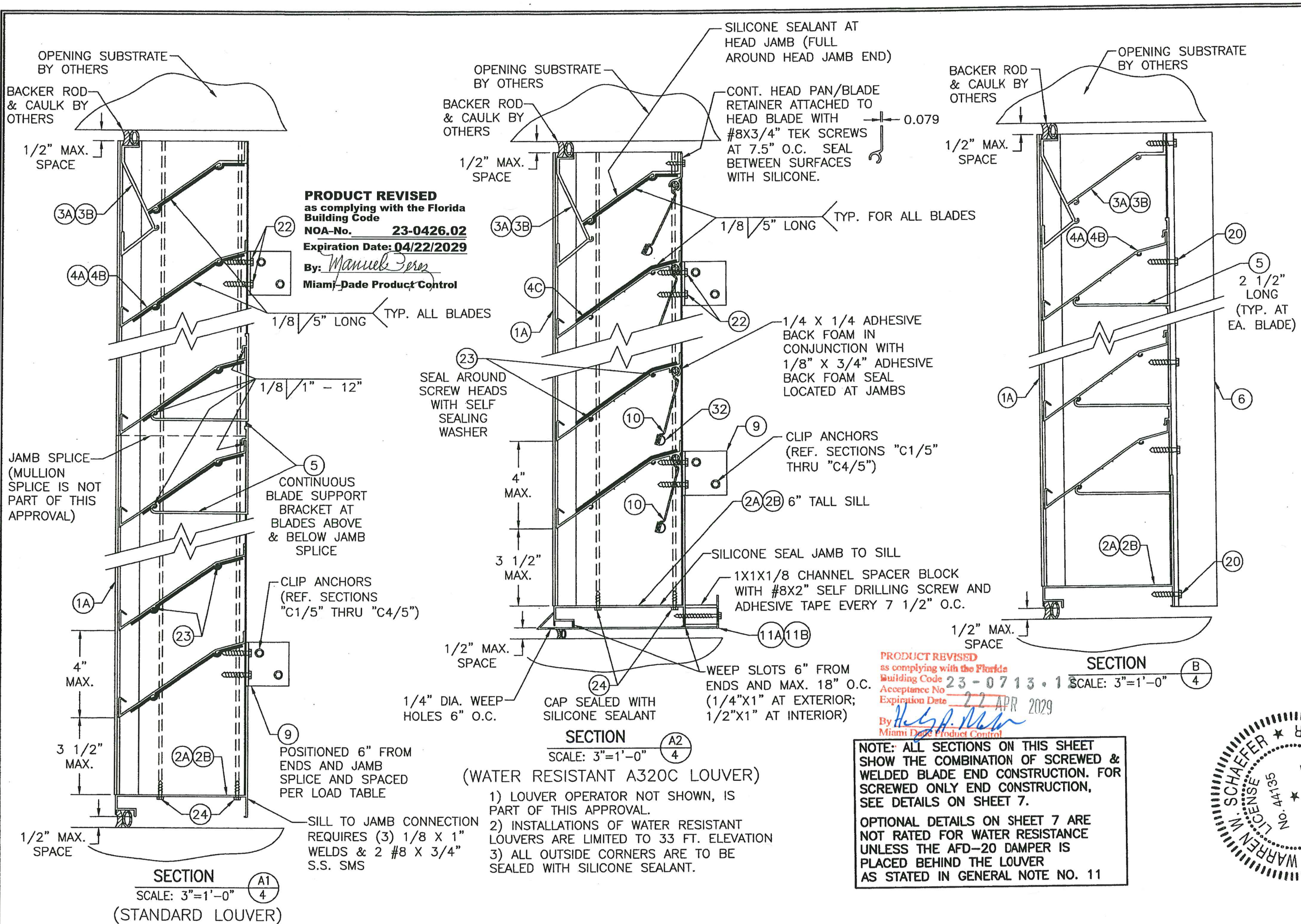
Diagram illustrating the dimensions of a double-panel window. The diagram shows two panels, labeled "A" and "B", separated by a central mullion. The width of panel "A" is labeled "PANEL WIDTH 'A'", and the width of panel "B" is labeled "PANEL WIDTH 'B'". The centerline of panel "A" is labeled "PANEL CENTERLINE", and the centerline of panel "B" is labeled "PANEL CENTERLINE". The vertical dimension is labeled "MULLION SPAN". The diagram also shows a diagonal line indicating the mullion span.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.02
Expiration Date: 04/22/2029
By: Manuel Perez
Miami-Dade Product Control

DRAWING NO.		REV.	
1464		D	
SHEET NO.			
3 OF 15			



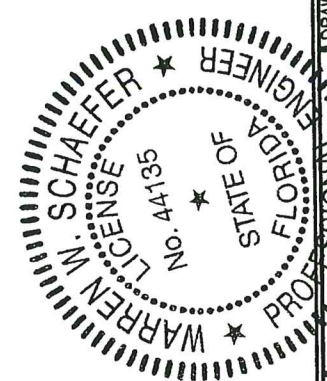
DRAWING TITLE		DRAWN BY:		CHECKED BY:	
EA-64 LOUVER SYSTEM		W.R.M.		W.W.S.	
CONSULTANTS		PLOT:		DATE:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		1-24		12/02/05	
26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		NO.		REVISION DESCRIPTION	
MANUFACTURER		BY		DATE	
ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888					



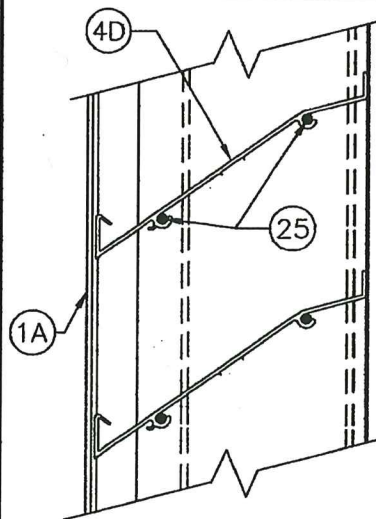
PRODUCT REVISED
as complying with the Florida Building Code
Building Code **23 - 0713.1**
Acceptance No. **23-0713.1**
Expiration Date **22 APR 2029**
By: *H. G. P. Allen*
Miami-Dade Product Control

NOTE: ALL SECTIONS ON THIS SHEET SHOW THE COMBINATION OF SCREWED & WELDED BLADE END CONSTRUCTION. FOR SCREWED ONLY END CONSTRUCTION, SEE DETAILS ON SHEET 7.

OPTIONAL DETAILS ON SHEET 7 ARE NOT RATED FOR WATER RESISTANCE UNLESS THE AFD-20 DAMPER IS PLACED BEHIND THE LOUVER AS STATED IN GENERAL NOTE NO. 11

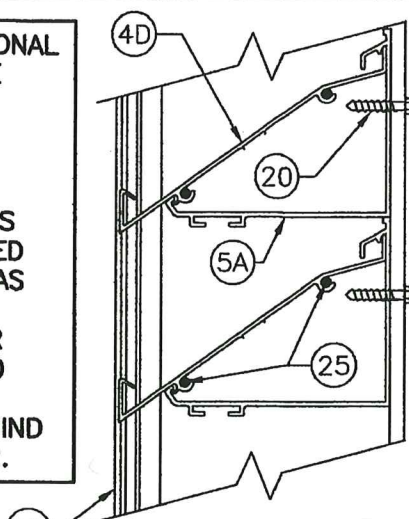


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PLOT: 1=24	DATE: 12/02/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE EA-64 LOUVER SYSTEM	
MANUFACTURER ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
DATE MAY 10 2023	
DRAWING NO. 1464	
REV. D	
SHEET NO. 4 OF 15	

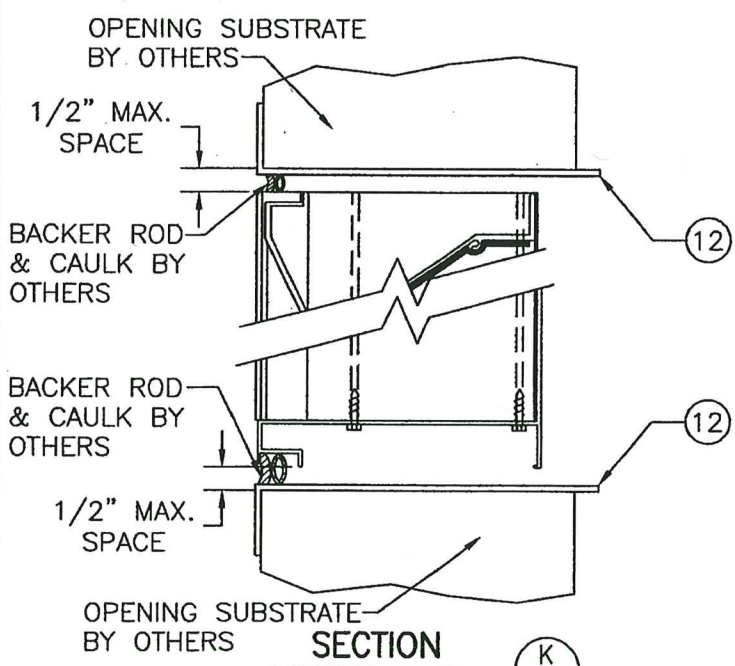


THESE OPTIONAL DETAILS ARE NOT WATER RESISTANT UNLESS ALL BLADE END CONNECTIONS ARE SCREWED & WELDED AS SHOWN ON SHEET 4 OR THE AFD-20 DAMPER IS PLACED BEHIND THE LOUVER.

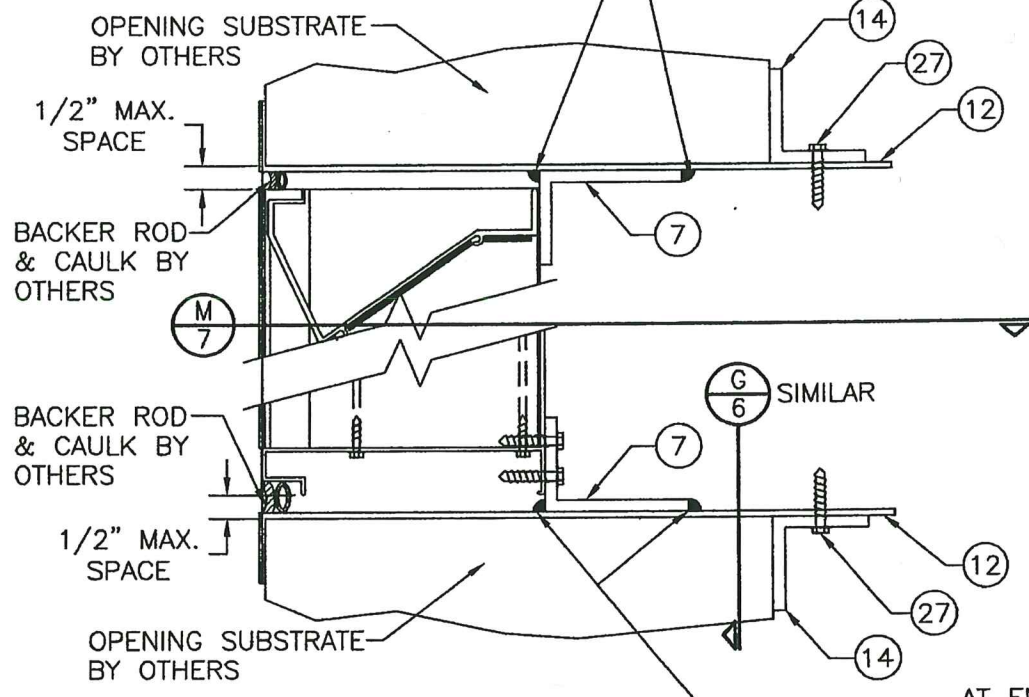
OPTIONAL BLADE DETAIL WITH SCREWED END CONSTRUCTION (STANDARD LOUVER)



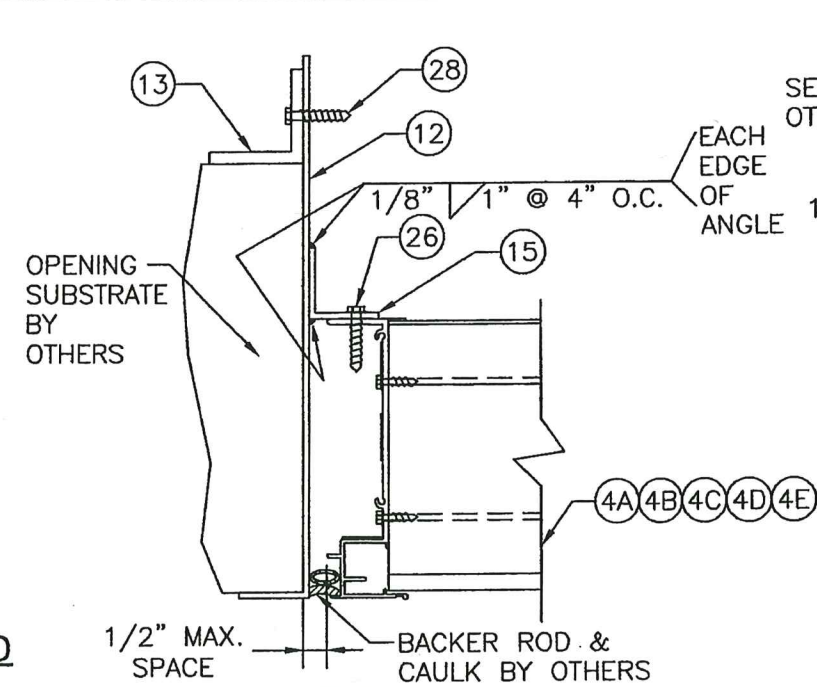
OPTIONAL BLADE SUPPORT BRACKET DETAIL WITH SCREWED END CONSTRUCTION



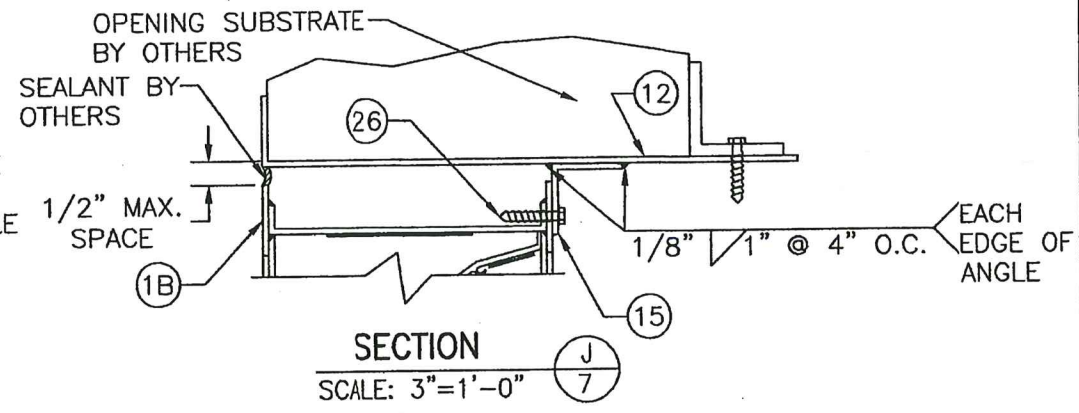
SECTION K
SCALE: 3"=1'-0"
(SLEEVE MOUNT CONDITION)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION A1/4 OR A2/4)



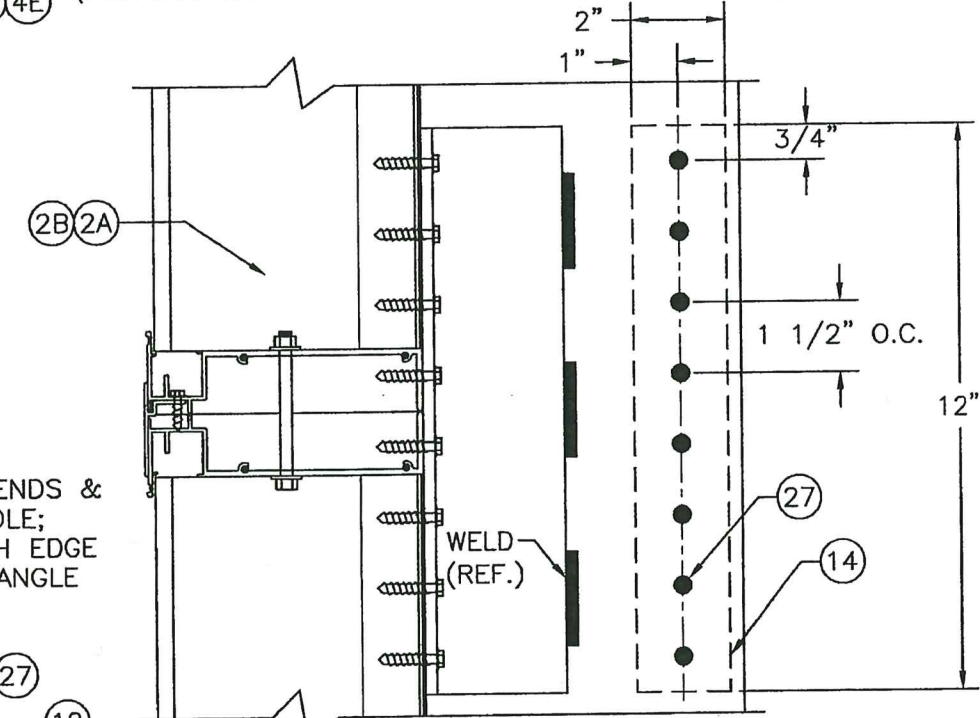
SECTION L
SCALE: 3"=1'-0"
(SLEEVE MOUNT CONDITION)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION E1/6)



SECTION H
SCALE: 3"=1'-0"
(SLEEVE MOUNT CONDITION)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION C1/5)



SECTION J
SCALE: 3"=1'-0"
(SLEEVE MOUNT CONDITION AT RADIUS)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION C5/5)



SECTION M
SCALE: 3"=1'-0"
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION F1/6)

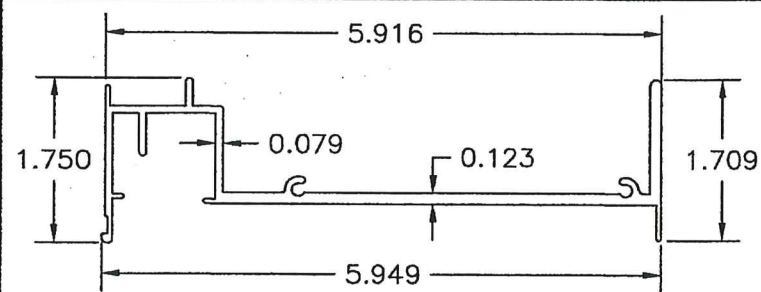
PART 7 & 15 MAY BE POSITIONED WITH LEG TURNED OUT AS SHOWN IN THESE SECTIONS OR WITH LEG TURNED UNDER THE LOUVER

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Expiration Date 22 APR 2029
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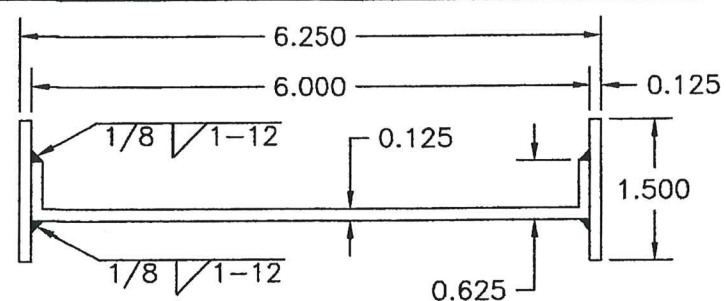
PRODUCT REVISED
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Building Code
NOA-No. 23-0426.02
Expiration Date: 04/22/2029
By: *Manuel Perez*
Miami-Dade Product Control



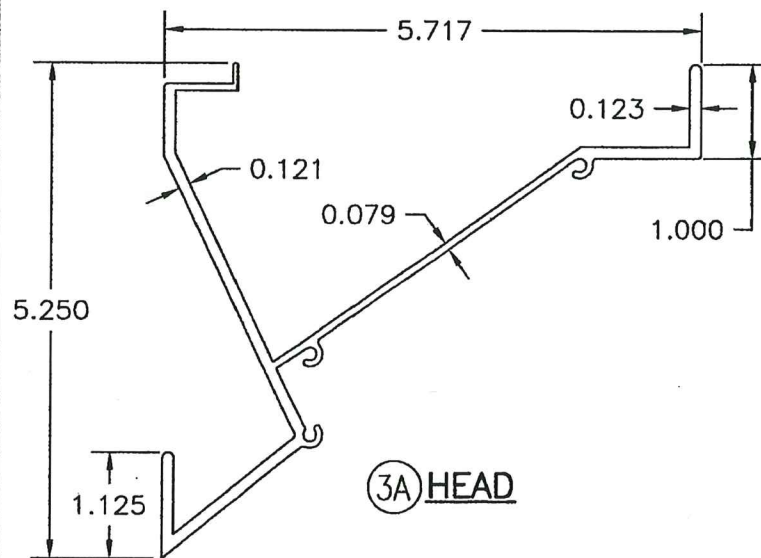
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLT: 1=24	DATE: 12/02/05
DATE	BY
REVISION DESCRIPTION	NO.
EA-64 LOUVER SYSTEM MANUFACTURER: ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888 CONSULTANTS: W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
DRAWING NO.	REV.
1464	D
SHEET NO.	7 OF 15



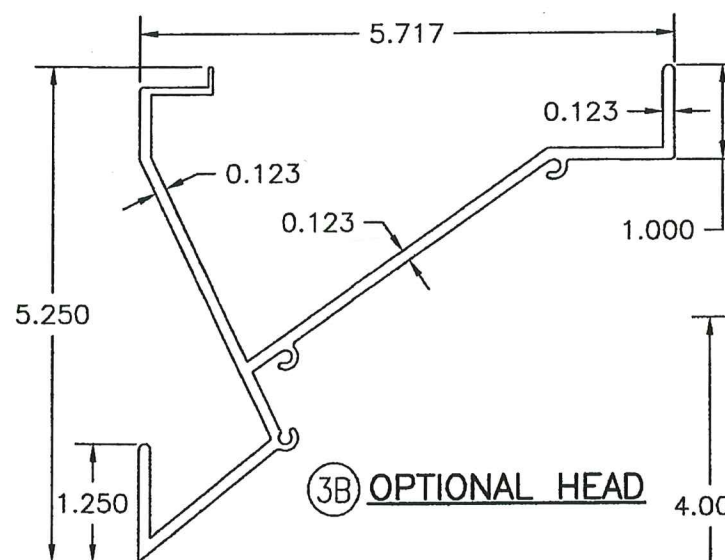
①A STANDARD STRAIGHT JAMB



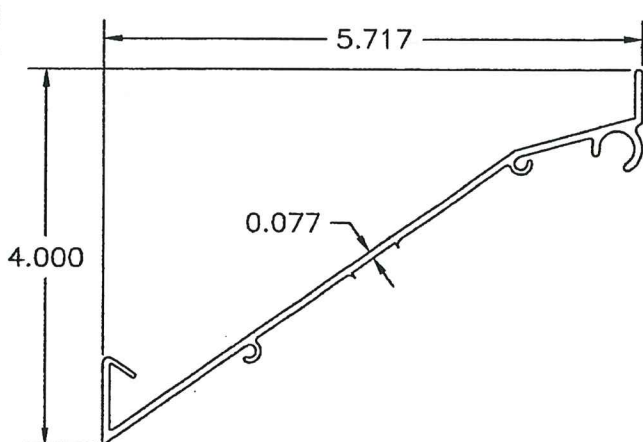
①B RADIUS JAMB



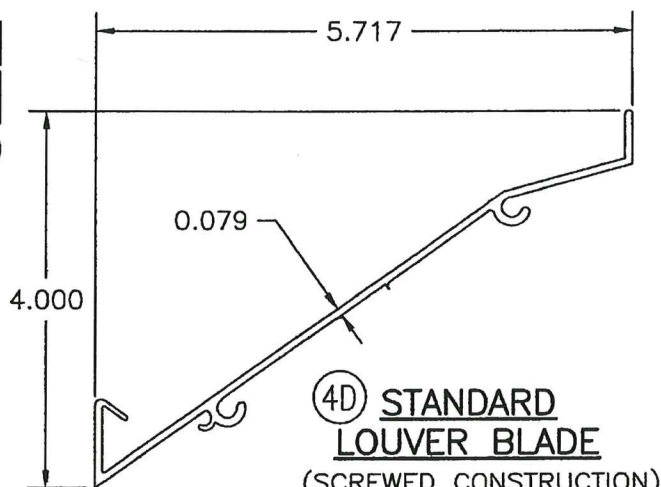
③A HEAD



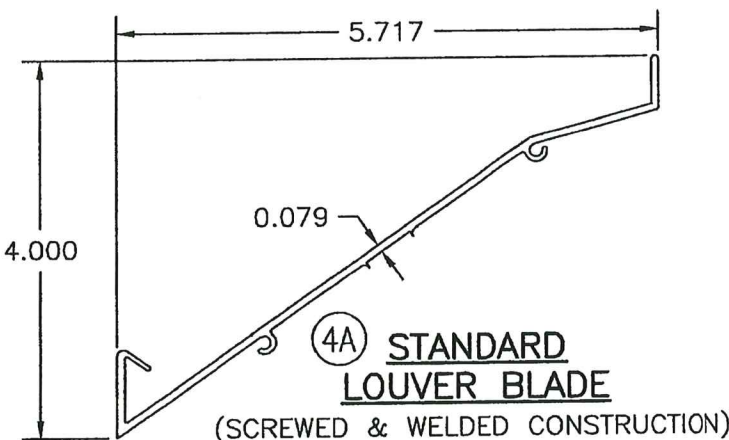
③B OPTIONAL HEAD



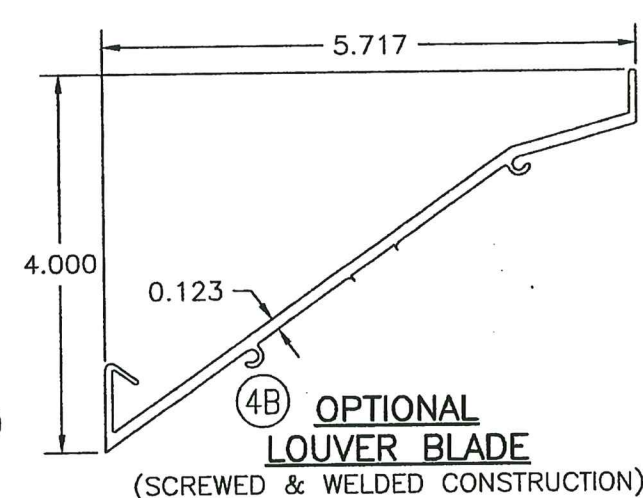
④C WATER RESISTANT LOUVER BLADE (SCREWED & WELDED CONSTRUCTION)



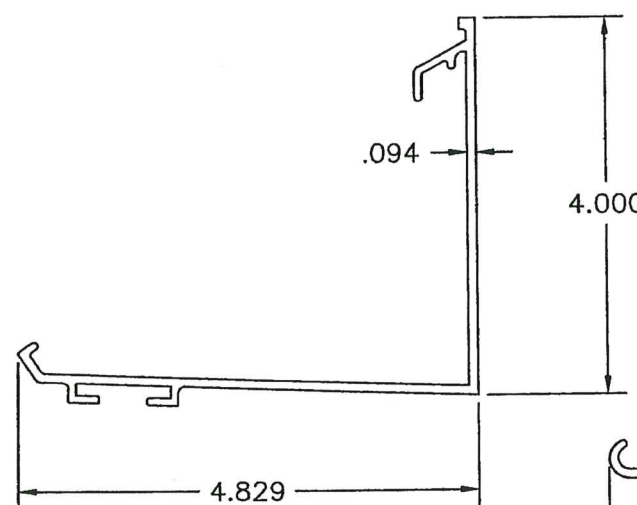
④D STANDARD LOUVER BLADE (SCREWED CONSTRUCTION)



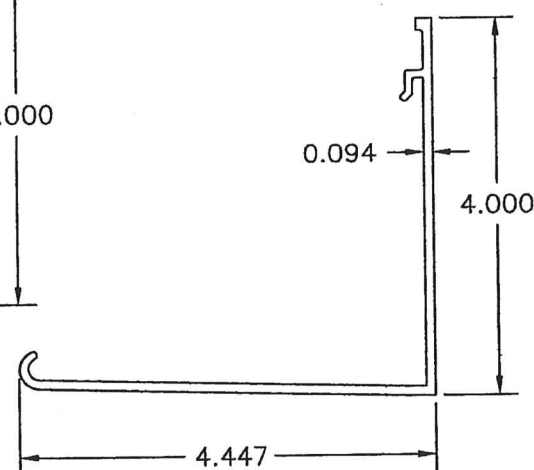
④A STANDARD LOUVER BLADE (SCREWED & WELDED CONSTRUCTION)



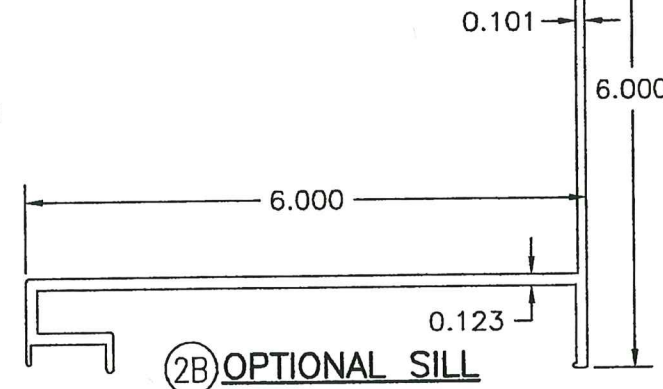
④B OPTIONAL LOUVER BLADE (SCREWED & WELDED CONSTRUCTION)



⑤A BLADE SUPPORT BRACKET (SCREWED CONSTRUCTION)



⑤ BLADE SUPPORT BRACKET (SCREWED & WELDED CONSTRUCTION)



②B OPTIONAL SILL

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By: *W. Schaefer*
Miami-Dade Product Control

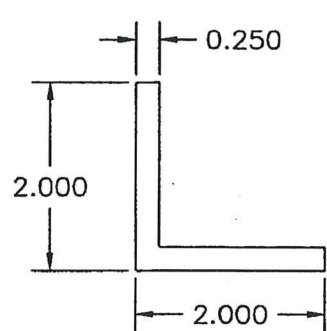
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.02
Expiration Date: 04/22/2029
By: *Manuel Ferrer*
Miami-Dade Product Control



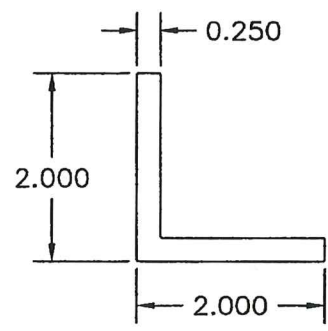
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 12/02/05
DATE	BY
REVISION DESCRIPTION	NO.
MANUFACTURER ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
DRAWING TITLE EA-64 LOUVER SYSTEM	
MAY 10 2023 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1464	REV. D
SHEET NO. 8 OF 15	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1A	STANDARD STRAIGHT JAMB	6063-T6 ALUMINUM
1B	RADIUS JAMB	5052-H32 ALUMINUM
2A	SILL	6063-T6 ALUMINUM
2B	OPTIONAL SILL	6063-T5 ALUMINUM
3A	HEAD	6063-T5 ALUMINUM
3B	OPTIONAL HEAD	6063-T5 ALUMINUM
4A	STANDARD LOUVER BLADE (SCREWED & WELDED ENDS)	6063-T5 ALUMINUM
4B	OPTIONAL LOUVER BLADE (SCREWED & WELDED ENDS)	6063-T5 ALUMINUM
4C	(1) WATER RESISTANT LOUVER BLADE (SCREWED & WELDED ENDS)	6063-T5 ALUMINUM
4D	SCREWED END LOUVER BLADE	6063-T5 ALUMINUM
5A	BLADE SUPPORT BRACKET	6063-T5 ALUMINUM (USED WITH BLADE 4D)
5	BLADE SUPPORT BRACKET	6063-T5 ALUMINUM (USED WITH BLADES 4A, 4B & 4C)
6	BLADE SUPPORT ANGLE	6063-T5 ALUMINUM
7	MULLION END SUPPORT ANGLE	6061-T6 ALUMINUM
8	MULLION COVER	6063-T6 ALUMINUM
9	SIDE JAMB CLIP ANGLE	6061-T6 ALUMINUM
10	DAMPER BLADE	6063-T5 ALUMINUM (USED WITH PART 4B)
11A	STANDARD SILL PAN	16 GA. 5052-H32 ALUMINUM
11B	OPTIONAL SILL PAN	16 GA. 5052-H32 ALUMINUM
12	MOUNTING SLEEVE	5052-H32 ALUMINUM
13	CONTINUOUS MOUNTING ANGLE	6063-T5 ALUMINUM
14	MULLION END SUPPORT ANGLE	6063-T5 ALUMINUM
15	CONTINUOUS MOUNTING ANGLE	6063-T5 ALUMINUM
FASTENERS		
20	1/4-14 X 1 1/4" SELF DRILLING SCREW	1 THROUGH SUPPORT ANGLE AT EACH SUPPORT BRACKET AND AT HEAD & SILL
21	1/4-14 X 1 1/4" HILTI TEK SCREW	10 PER MULLION SUPPORT ANGLE INTO FRAME
22	1/4-14 X 1 1/4" HILTI TEK SCREW	2 PER EACH CLIP ANGLE INTO JAMB
23	NO. 8 X 3/4" S.S. SMS	2 THROUGH JAMB INTO EACH LOUVER BLADE
24	NO. 8 X 3/4" S.S. SMS	2 THROUGH SILL INTO EACH SIDE & MULLION JAMB
25	1/4-14 X 1 1/2" SELF DRILLING SCREW	2 THROUGH JAMB INTO EACH LOUVER BLADE
26	1/4-14 X 1 1/4" SELF DRILLING SCREW	WITHIN 3" OF ENDS & MAX. 6" O.C.
27	1/4-14 X 1 1/4" SELF DRILLING SCREW	8 PER MULLION END SUPPORT ANGLE
28	1/4-14 X 1 1/4" SELF DRILLING SCREW	WITHIN 6" OF CORNERS & MAX. 12 1/2" O.C.
SEALS & SEALANTS		
32	BULB SEAL	MCL 743091

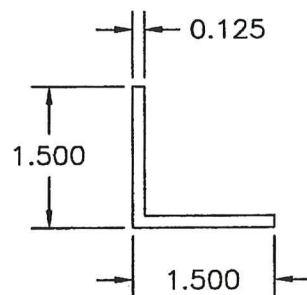
(1) PARTS 4C & 10 SHALL BE USED IN PLACE OF PART 4A OR 4B WHEN LOUVER IS REQUIRED TO RESIST WATER PENETRATION.



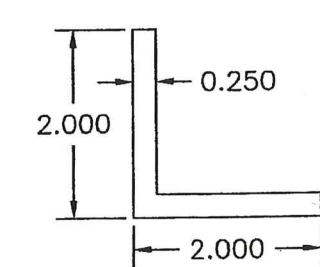
13 CONTINUOUS MOUNTING ANGLE



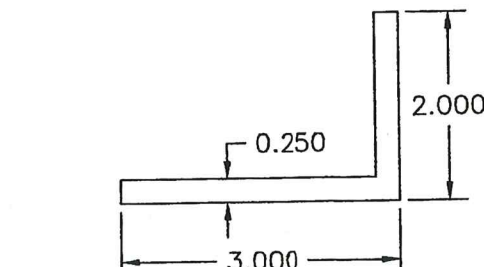
14 MULLION END SUPPORT ANGLE
LENGTH = 12"



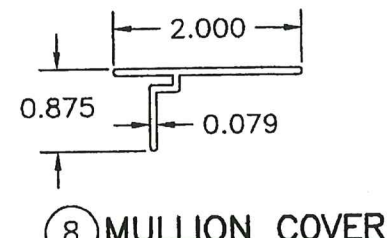
15 CONTINUOUS MOUNTING ANGLE



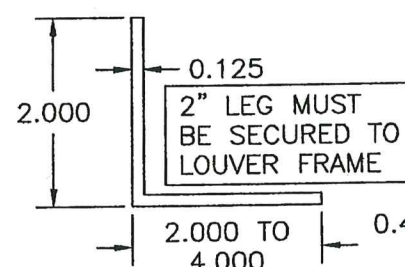
6 BLADE SUPPORT ANGLE
LENGTH = LOUVER HEIGHT



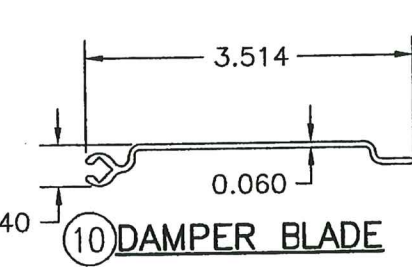
7 MULLION SUPPORT ANGLE
LENGTH = 12"



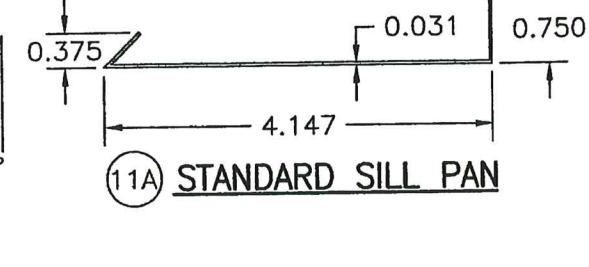
8 MULLION COVER



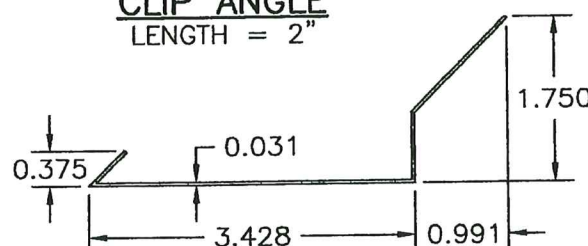
9 SIDE JAMB CLIP ANGLE
LENGTH = 2"



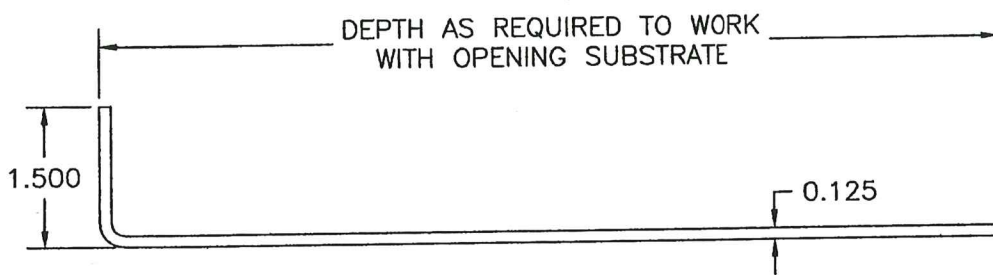
10 DAMPER BLADE



11A STANDARD SILL PAN



11B OPTIONAL SILL PAN



12 MOUNTING SLEEVE
(CONTINUOUS AT ALL SIDES; WELDED AT CORNERS)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713.12
Expiration Date 22 APR 2029
By: *Heidi A. Miller*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.02
Expiration Date: 04/22/2029
By: *Manuel Perez*
Miami-Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 12/02/05
DATE	BY
REVISION DESCRIPTION	NO.
MANUFACTURER ARROW UNITED INDUSTRIES, INC. A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
DRAWING TITLE EA-64 LOUVER SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
MAY 10 2023 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1464 REV. D SHEET NO. 9 OF 15

[illegible]

1/4" SELF DRILLING
SCREWS (TO ATTACH
DAMPER TO LOUVER
FRAME) WITHIN 5" OF
CORNERS & AT MAX. 10"
O.C.

1/4" X 1" CONTINUOUS
PVC GASKET

SUBSTRATE
(REF. LOUVER
SECTIONS)

VOLUME
CONTROL
DAMPER

BLADE SUPPORT
ANGLE (REF.)

1/4" SELF
DRILLING SCREW
ATTACHED TO
BACKER PLATE
WITHIN 5" OF
CORNERS & AT
MAX. 10" O.C.

1/4" SELF DRILLING
SCREWS (TO ATTACH
ANGLES TO LOUVER
FRAME) WITHIN 5" OF
ENDS & MAX. 10" O.C.

VOLUME
CONTROL
DAMPER

3 x 2 x 1/8
CONTINUOUS
ALUMINUM ANGLE
SHIP ATTACHED

1/4" X 1"
CONTINUOUS
PVC GASKET

1/4" SELF DRILLING
SCREW INTO EACH
BLADE BRACE (REF.)

8 GA. (.125"
THICK) X 4"
WIDE CONTINUOUS
ALUMINUM
BACKER PLATE

1/4" SELF
DRILLING
SCREWS (TO
ATTACH
DAMPER TO
ANGLES)
WITHIN 5" OF
CORNERS &
AT MAX. 10"
O.C.

1/4" X 1"
CONTINUOUS
PVC GASKET

LOUVER
PANEL
(REF.)

EXTERIOR

**VC-822 OR VC-28/29 DAMPER
SECTION AT BLADE STIFFENER**

EXTERIOR

LOUVER
PANEL
(REF.)

PANEL WIDTH PANEL WIDTH

**VC-822 OR VC-28/29 DAMPER
SECTION AT MULLION**

**FOR LOUVER DETAILS,
SEE SHEETS 1-9**

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **23-0713-12**
Expiration Date **22 APR 2029**
By *Manuel Perez*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0426.02**
Expiration Date: **04/22/2029**
By: *Manuel Perez*
Miami Dade Product Control



MAY 10 2023
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. **1464** REV. **D**
SHEET NO. **11 OF 15**

LOUVER HEIGHT

EXTERIOR

LOUVER
PANEL
(REF.)

VOLUME
CONTROL
DAMPER

VOLUME
CONTROL
DAMPER

INSTALLATION CLIP
(REF. LOUVER
SECTIONS)

1/4" X 1"
CONTINUOUS
PVC GASKET

LOUVER
PANEL
(REF.)

EXTERIOR

LOUVER WIDTH

**VC-822 OR VC-28/29
DAMPER JAMB DETAIL**

SUBSTRATE
(REF. LOUVER
SECTIONS)

VERTICAL CROSS SECTION

VC-822 OR VC-28/29 DAMPER DETAIL

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLT:	1-24	DATE:	12/02/05
NO.		REVISION	
		DESCRIPTION	
		DATE	
		BY	

EA-64 LOUVER SYSTEM
MANUFACTURER
**ARROW UNITED INDUSTRIES;
A DIVISION OF MESTEK, INC.**
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

CONSULTANTS
**W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.**
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

1/4" SELF DRILLING SCREWS (TO ATTACH STORM LOUVER TO LOUVER FRAME) WITHIN 5" OF CORNERS & AT MAX. 10" O.C.

SUBSTRATE (REF. LOUVER SECTIONS)

1/4" X 1" CONTINUOUS PVC GASKET

LE42V STORM LOUVER

EXTERIOR

LOUVER PANEL (REF.)

LOUVER HEIGHT

1/4" X 1" CONTINUOUS PVC GASKET

1/4" SELF DRILLING SCREWS (TO ATTACH STORM LOUVER TO LOUVER FRAME) WITHIN 5" OF CORNERS & AT MAX. 10" O.C.

SUBSTRATE (REF. LOUVER SECTIONS)

**VERTICAL CROSS SECTION
LE42V STORM LOUVER DETAIL**

1/4" SELF DRILLING SCREWS (TO ATTACH STORM LOUVER TO LOUVER FRAME) WITHIN 5" OF CORNERS & AT MAX. 10" O.C.

3 x 2 x 1/8 CONTINUOUS ANGLE SHIP ATTACHED

LE42V STORM LOUVER

1/4" X 1" CONTINUOUS PVC GASKET

LOUVER PANEL (REF.)

EXTERIOR

PANEL WIDTH

PANEL WIDTH

**LE42V STORM LOUVER
SECTION AT MULLION**

1/4" SELF DRILLING SCREW ATTACHED TO BACKER PLATE WITHIN 5" OF CORNERS & AT MAX. 10" O.C.

2 x 2 x 1/4 MULLION ANGLE

LE42V STORM LOUVER

1/4" X 1" CONTINUOUS PVC GASKET

1/4" TEK SCREW INTO EACH BLADE BRACE (REF.)

8 GA. (.125" THICK) X 4" WIDE CONTINUOUS ALUMINUM BACKER PLATE

LOUVER PANEL (REF.)

EXTERIOR

**LE42V STORM LOUVER
SECTION AT BLADE STIFFENER**

1/4" SELF DRILLING SCREWS (TO ATTACH STORM LOUVER TO LOUVER BLADE) THROUGH EVERY OTHER LOUVER BLADE

LE42V STORM LOUVER

1/4" X 1" CONTINUOUS PVC GASKET

LOUVER PANEL (REF.)

EXTERIOR

LOUVER WIDTH

**LE42V STORM LOUVER
JAMB DETAIL**

INSTALLATION CLIP (REF. LOUVER SECTIONS)

SUBSTRATE (REF. LOUVER SECTIONS)

FOR LOUVER DETAILS,
SEE SHEETS 1-9

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713-12
Expiration Date 22 APR 2029
By *Heidi M. Miller*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.02
Expiration Date: 04/22/2029
By: *Manuel Perez*
Miami Dade Product Control



DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=24	DATE:	12/02/05
NO.		REVISION DESCRIPTION	
BY		DATE	

EA-64 LOUVER SYSTEM		MANUFACTURER ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	DRAWING NO.	1464
		SHEET NO.	12 OF 15
		REV.	D

1/4" SELF DRILLING
SCREWS (TO ATTACH
TRANSITION SLEEVE TO
LOUVER FRAME) WITHIN
5" OF CORNERS & AT
MAX. 10" O.C.

SUBSTRATE
(REF. LOUVER
SECTIONS)

1/4" X 1"
CONTINUOUS
PVC GASKET

1/4" SELF DRILLING
SCREWS (TO ATTACH
TRANSITION SLEEVE TO
LOUVER FRAME) WITHIN
5" OF CORNERS & AT
MAX. 10" O.C.

3 x 2 x 1/8
CONTINUOUS ANGLE
SHIP ATTACHED

DUCT TRANSITION
SLEEVE FOR
CONNECTION OF
DUCTS TO
LOUVER FRAME

1/4" SELF DRILLING SCREWS
(TO ATTACH TRANSITION
SLEEVE TO LOUVER BLADE)
THROUGH EVERY OTHER
LOUVER BLADE

DUCT TRANSITION SLEEVE
FOR CONNECTION OF DUCTS
TO LOUVER FRAME

INSTALLATION
CLIP (REF.
LOUVER
SECTIONS)

SUBSTRATE
(REF.
LOUVER
SECTIONS)

1/4" X 1"
CONTINUOUS
PVC GASKET

LOUVER
PANEL
(REF.)

EXTERIOR

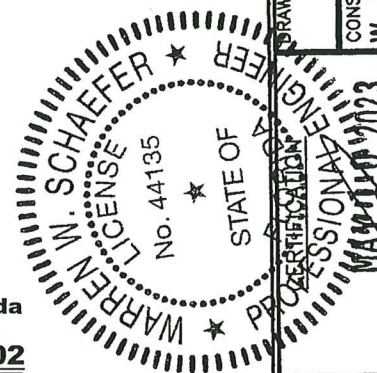
LOUVER WIDTH

DUCT TRANSITION
SLEEVE JAMB DETAIL

FOR LOUVER DETAILS,
SEE SHEETS 1-9

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713.12
Expiration Date 22 APR 2029
By *Manuel Fernandez*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.02
Expiration Date: 04/22/2029
By: *Manuel Fernandez*
Miami-Dade Product Control



WARREN N. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1464
REV. D
SHEET NO. 13 OF 15

EXTERIOR

LOUVER HEIGHT

LOUVER
PANEL
(REF.)

VARIES

DUCT TRANSITION SLEEVE FOR
CONNECTION OF
DUCTS TO
LOUVER FRAME

LOUVER
PANEL
(REF.)

EXTERIOR

PANEL WIDTH

DUCT TRANSITION SLEEVE
SECTION AT MULLION

2 x 2 x 1/4
MULLION ANGLE

DUCT TRANSITION
SLEEVE FOR
CONNECTION OF
DUCTS TO
LOUVER FRAME

1/4" SELF DRILLING
SCREW ATTACHED TO
BACKER PLATE WITHIN
5" OF CORNERS &
AT MAX. 10" O.C.

1/4" X 1"
CONTINUOUS
PVC GASKET

1/4" SELF DRILLING
SCREW INTO EACH
BLADE BRACE (REF.)

8 GA. (.125"
THICK) X 4" WIDE
CONTINUOUS
ALUMINUM BACKER
PLATE

EXTERIOR

LOUVER
PANEL
(REF.)

DUCT TRANSITION SLEEVE
SECTION AT BLADE STIFFENER

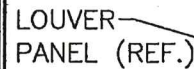
VERTICAL CROSS SECTION
DUCT TRANSITION SLEEVE DETAIL

SUBSTRATE
(REF.
LOUVER
SECTIONS)

1/4" X 1"
CONTINUOUS
PVC GASKET

1/4" SELF DRILLING
SCREWS (TO ATTACH
TRANSITION SLEEVE TO
LOUVER FRAME) WITHIN
5" OF CORNERS & AT
MAX. 10" O.C.

DRAWING NO. 1464	REV. D
SHEET NO. 14 OF 15	



(FOR DAMPER DETAIL NOT SHOWN, SEE OTHER
DAMPER MULLION SECTION ON SHEET 14)

SEAL ALL STITCH WELDED SEAMS
WITH SILICONE SEALANT

FOR LOUVER DETAILS,
SEE SHEETS 1-9



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713-12
Expiration Date 22 APR 2029
By *H. J. Miller*
Miami Date Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.02
Expiration Date: 04/22/2029
By: Manuel Perez
Miami-Dade Product Control



DRAWING NO.	REV.
SHEET NO.	
CERTIFICATION	P.E.
PROFESSIONAL	No. 44135
MAY 10 2023	WARREN W. SCHAEFER,
	P.F. No. 44135
DRAWING TITLE	E.A.-64 LOUVER SYSTEM
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	MANUFACTURER ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
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1=24	12/02/05
NO.	REVISION DESCRIPTION
BY	DATE