



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 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 **Carlos M. Utrera, P.E.**




07/09/26

NOA No. 26-0625.10
Expiration Date: April 22, 2029
Approval Date: July 16, 2026
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS (*Submitted under NOA No. 19-0306.02*)

1. 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.

B. TESTS (*Submitted under NOA No. 19-0306.02*)

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.

	<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.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 26-0625.10
Expiration Date: April 22, 2029
Approval Date: July 16, 2026

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.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 26-0625.10
Expiration Date: April 22, 2029
Approval Date: July 16, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER NOA 23-0426.02 AND NEW

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.

F. STATEMENTS

1. Statement letter of code conformance to the **8th Edition (2023)** and **9th Edition (2026) of the FBC**, including special limitation note that anchors in saltwater environment must meet corrosion resistance requirements of FBC, Chapter 17, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 07/01/2026, signed and sealed by Warren W. Schaefer, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 26-0625.10
Expiration Date: April 22, 2029
Approval Date: July 16, 2026

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

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. (F_y = 10,000 PSI MIN.).
- WOOD SCREWS SHALL HAVE MIN. YIELD STRENGTH OF F_y = 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 TWO 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.

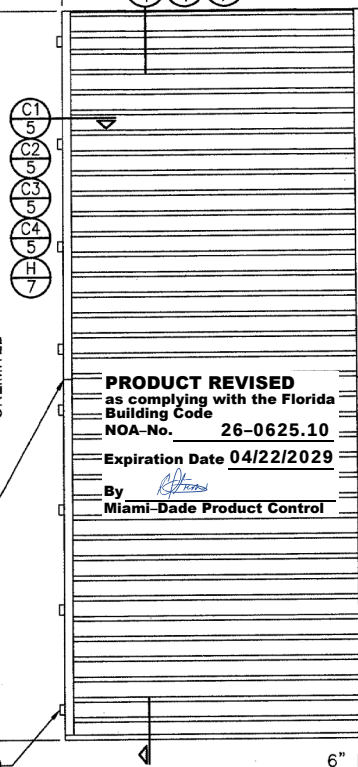
JAMB SPLICE WHEN REQUIRED FOR STACKING (SEE SECTION A1/4 FOR DETAIL). SPLICE LOCATION TO BE BETWEEN BLADES.

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. F_y = 33 ksi.
- ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 12 GA. F_y = 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.

60" MAX.
 (REF. LOAD TABLES)

A1 4
 A2 4
 K 7



**EXTERIOR ELEVATION
 SINGLE LOUVER PANEL WITHOUT
 BLADE SUPPORT ANGLE**

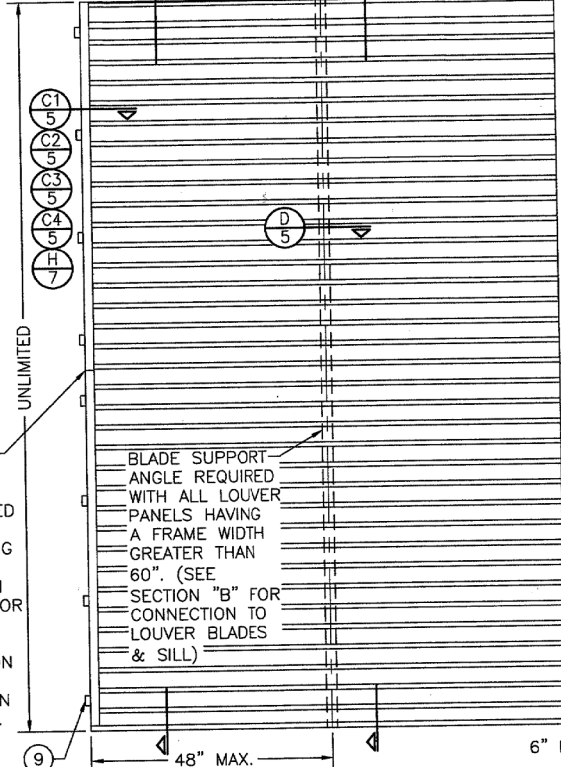
NOTE: LOUVER PANELS MAY BE STACKED/SPLICED VERTICALLY OR THE LOUVER PANEL MAY RUN VERTICALLY TO INFINITE HEIGHT PROVIDING OPENING IS PROPERLY DESIGNED BY OTHERS TO SUPPORT THE LOUVER PANELS.

INSTALLATION CLIPS ARE NOT APPLICABLE WHEN LOUVER IS SLEEVE MOUNTED

PRODUCT RE D
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 By: *Manuel Pina*
 Mi mi-Dade Product Control

96" MAX.
 (REF. LOAD TABLES)

A1 4
 K 7
 G PANEL 4
 B 4



**EXTERIOR ELEVATION
 SINGLE LOUVER PANEL WITH
 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. BLADE SUPPORT ANGLE IS CONTINUOUS FROM HEAD TO SILL AND SPLICING OF THIS ANGLE IS NOT PART OF THIS APPROVAL.

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.

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.

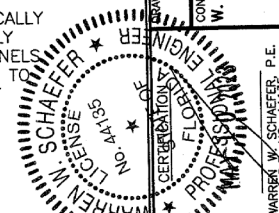
DRAWN BY: W.R.M.
 CHECKED BY: W.S.
 PLOT: 1=24
 DATE: 12/02/05

NO.	REVISION	DESCRIPTION	DATE	BY
1	1	UPDATE TO CURRENT STANDARDS	07/07/11	W.R.M.
2	2	MANUFACTURER NAME CHANGE	07/07/11	W.S.
3	3	CHANGED CLIP SPACING	02/26/19	W.S.
4	4	UPDATED NOTES	04/19/23	W.S.

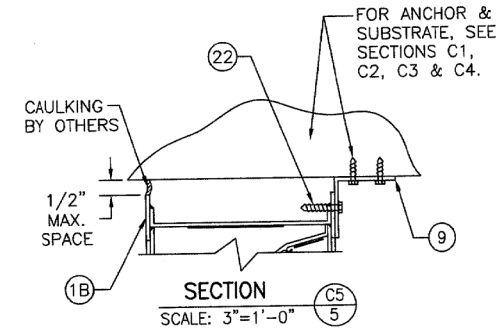
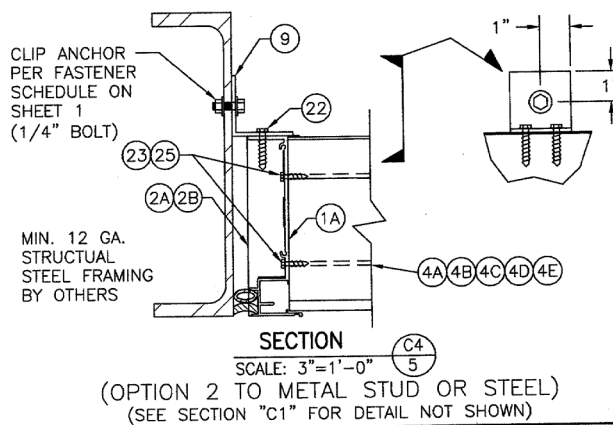
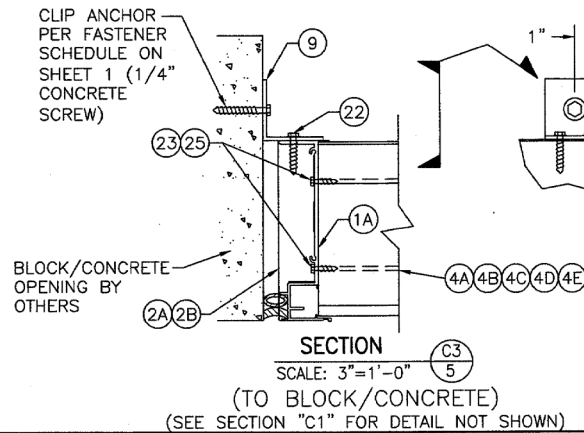
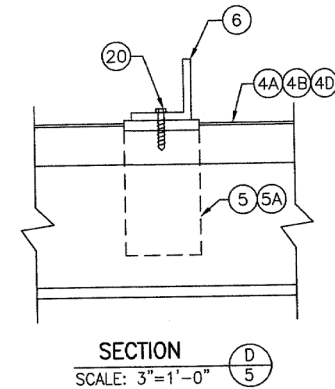
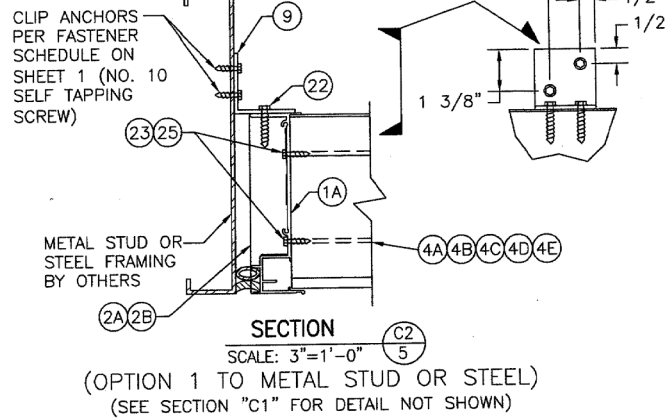
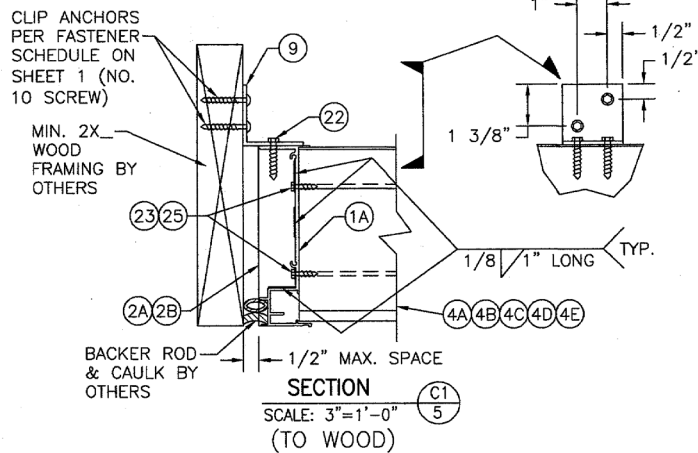
ARROW UNITED INDUSTRIES:
 A DIVISION OF MESTEK, INC.
 450 RIVERSIDE DRIVE
 WYALUSING, PA 18853
 570-746-1888

EA-64 LOUVER SYSTEM

CONSULTANTS
**W. W. SCHAEFER ENGINEERING
 & CONSULTING, P.A.**
 28378 INDIAN ROAD, UNIT 309
 PUNTA GORDA, FL 33963
 PHONE: 561-744-3424



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

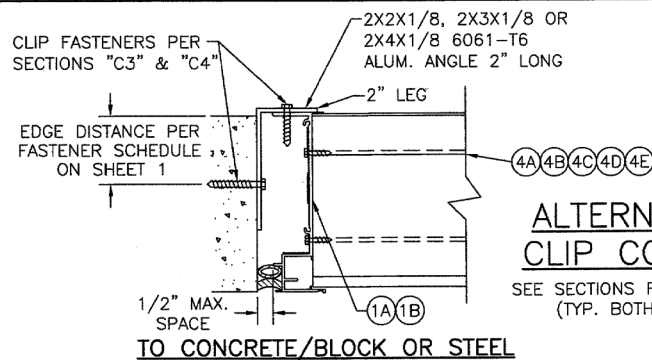


PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 26-0625.10

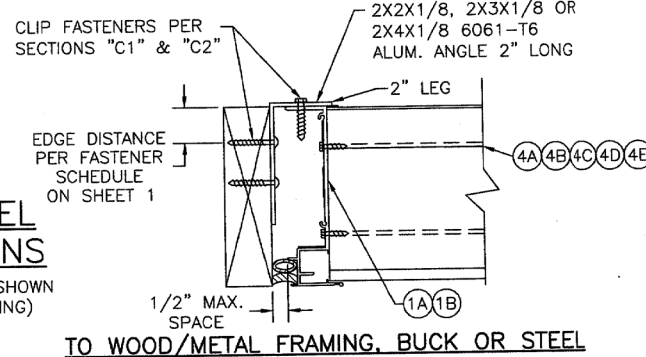
Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control

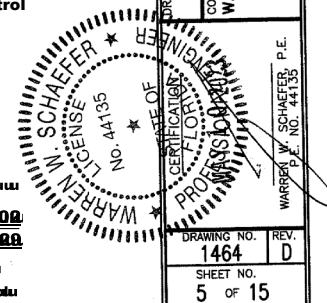


ALTERNATE PANEL CLIP CONNECTIONS

SEE SECTIONS FOR DETAIL NOT SHOWN (TYP. BOTH SIDES OF OPENING)



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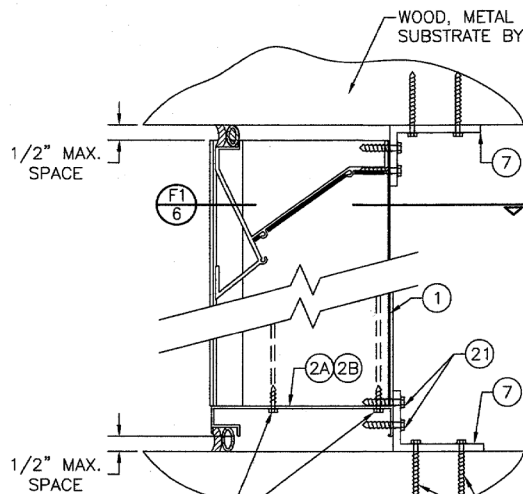
EA-64 LOUVER SYSTEM

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.
26376 MAJOR ROAD, UNIT 309
PUNTA GORDA, FL 33983
PHONE: 888-744-5262

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.
PLOT:	1=24	DATE:	12/02/05
DATE			
BY			
REVISION DESCRIPTION			
NO.			

DRAWING NO. 1464
SHEET NO. 5 OF 15

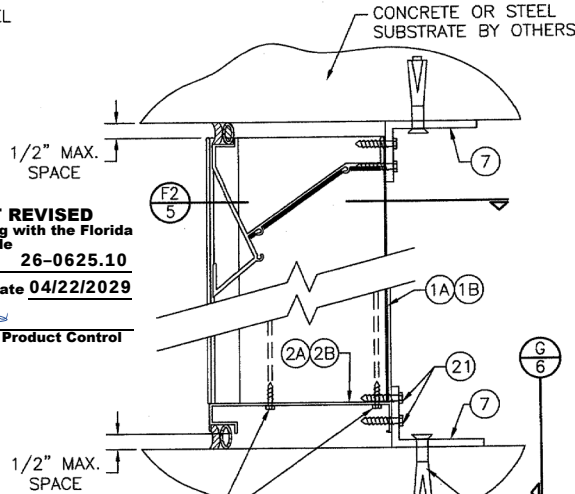


SECTION E1
SCALE: 3"=1'-0"
(INTO WOOD, METAL STUD OR STEEL OPENING)

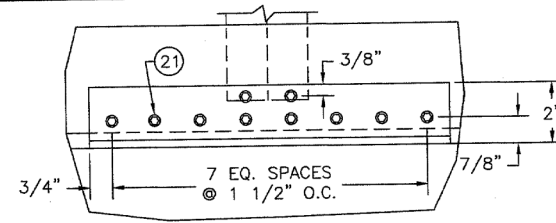
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Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control



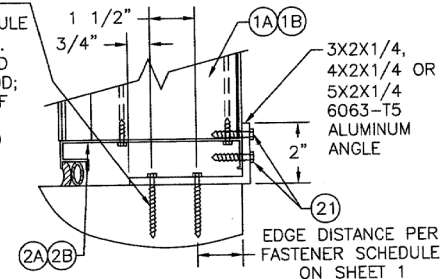
SECTION E2
SCALE: 3"=1'-0"
(INTO CONCRETE OR STRUCTURAL STEEL OPENING)



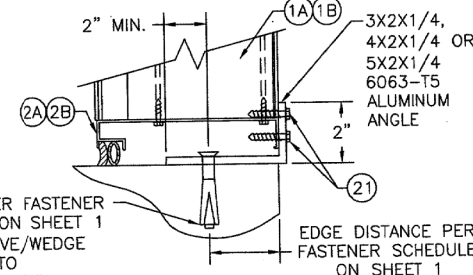
VIEW G
SCALE: 3"=1'-0"
(SEE SECTION E1/6 OR E2/6 FOR ANCHORS TO OPENING OR J/7 FOR WELDS TO SLEEVE)

ANCHOR PER FASTENER SCHEDULE ON SHEET 1 (NO. 10 SMS OR WOOD SCREW INTO WOOD; MIN. NO. 10 SELF TAPPING SCREW INTO METAL STUD OR STEEL)

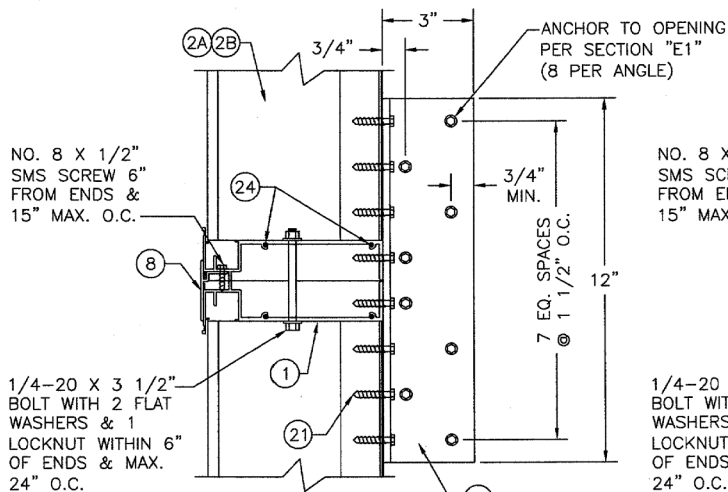
ANCHOR PER FASTENER SCHEDULE ON SHEET 1 (3/8" SLEEVE/WEDGE ANCHOR INTO CONCRETE; 3/8" BOLT INTO STEEL)



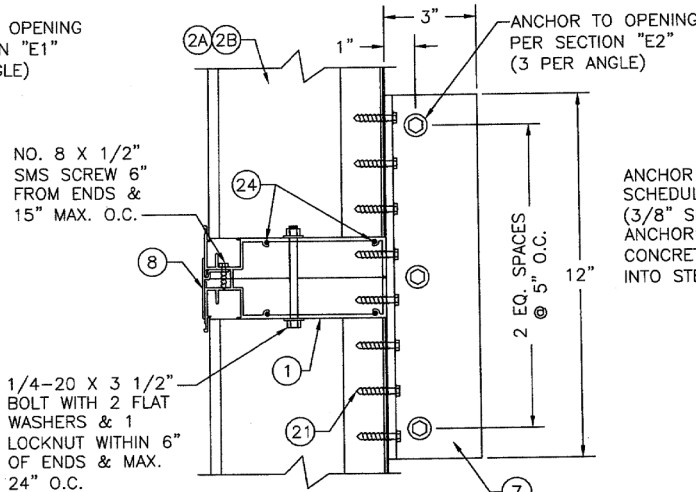
OPTIONAL SECTION E1
SCALE: 3"=1'-0"
SILL SHOWN; HEAD SIMILAR



OPTIONAL SECTION E2
SCALE: 3"=1'-0"
SILL SHOWN; HEAD SIMILAR



SECTION F1
SCALE: 3"=1'-0"



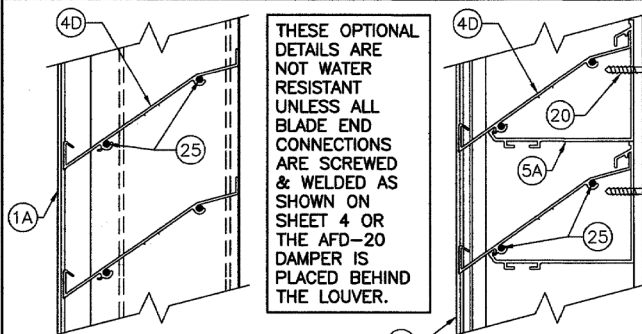
SECTION F2
SCALE: 3"=1'-0"

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NOA-No. 23-0426.00
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By: *[Signature]*
Mi m-Dade Product Control

NO.	REVISION DESCRIPTION	DATE	BY	CHECKED BY	DATE
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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. 28376 NAJOUR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 881-744-5624	STATE OF FLORIDA PROFESSIONAL ENGINEER W. W. SCHAEFER, P.E. NO. 44135 EXPIRATION DATE 04/22/2029
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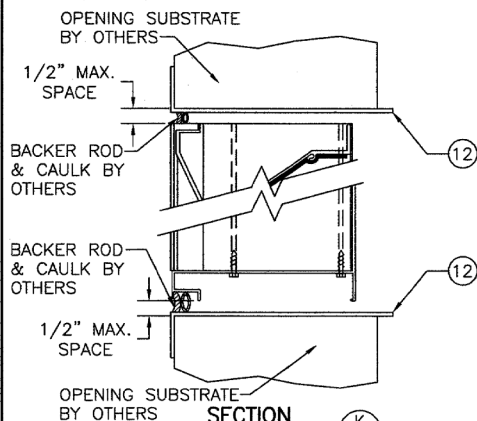
DRAWING NO.	REV.
1464	D
SHEET NO.	6 OF 15

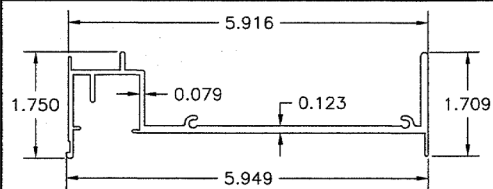


THESE OPTIONAL DETAILS ARE NOT WATER RESISTANT UNLESS ALL BLADE END CONNECTIONS ARE SCREWED & WELDED AS SHOWN ON SHEET 4 OR THE AFD-20 DAMPER IS PLACED BEHIND THE LOUVER.

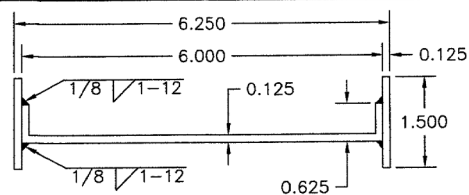
OPTIONAL BLADE DETAIL WITH SCREWED END CONSTRUCTION (STANDARD LOUVER)

OPTIONAL BLADE SUPPORT BRACKET DETAIL WITH SCREWED END CONSTRUCTION

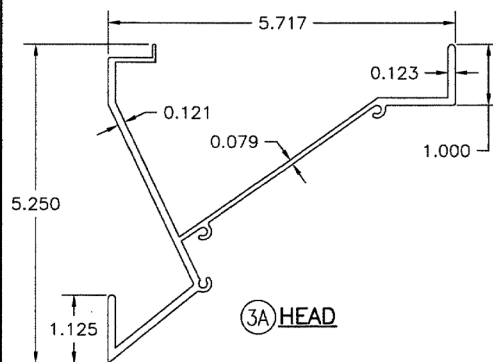




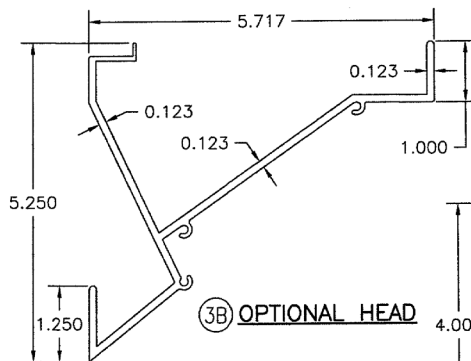
1A STANDARD STRAIGHT JAMB



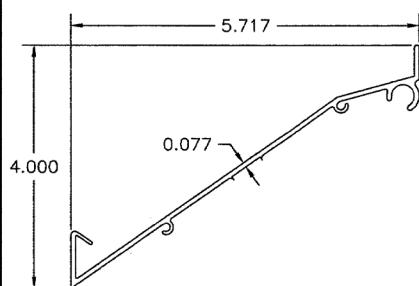
1B RADIUS JAMB



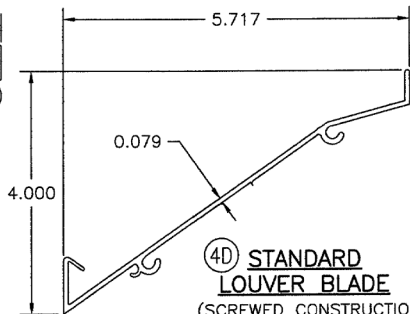
3A HEAD



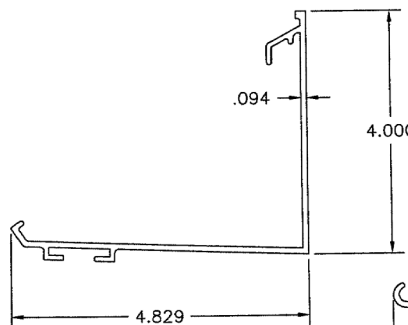
3B OPTIONAL HEAD



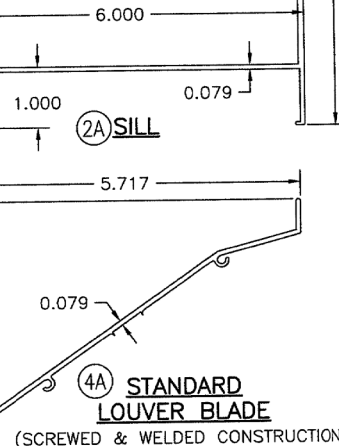
4C WATER RESISTANT LOUVER BLADE (SCREWED & WELDED CONSTRUCTION)



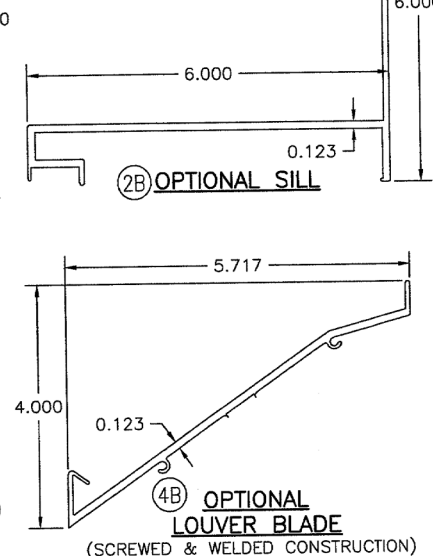
4D STANDARD LOUVER BLADE (SCREWED CONSTRUCTION)



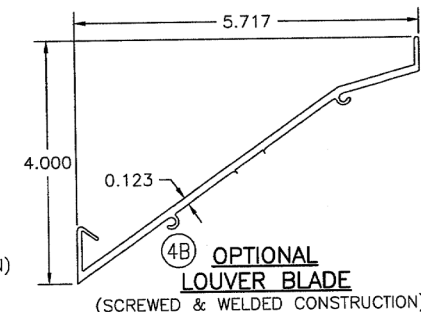
5A BLADE SUPPORT BRACKET (SCREWED CONSTRUCTION)



2A SILL



2B OPTIONAL SILL



4B OPTIONAL LOUVER BLADE (SCREWED & WELDED CONSTRUCTION)

PRODUCT RE D
s complying with the Florida
Building Code
NOA-No. 23-0406-00
xpin Miami-Dade 04/22/2029
By: *Manuel Perez*
Miami-Dade Product Control

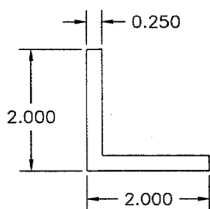


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.10
Expiration Date 04/22/2029
By: *Manuel Perez*
Miami-Dade Product Control

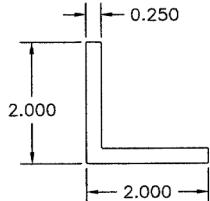
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 12/02/05	
NO.	REVISION	DESCRIPTION	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
DRAWING TITLE: EA-64 LOUVER SYSTEM			
MANUFACTURER: ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC.			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.			
26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE 561-744-5424			
DATE: MAY 10 2023			
DRAWING NO. 1464			
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

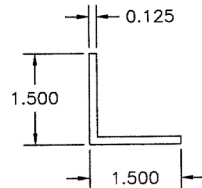
(1) PARTS 4C & 10 SHALL BE USED IN PLACE OF PART 4A OR 4B WHEN LOUVER IS REQUIRED TO RESIST WATER PENETRATION.



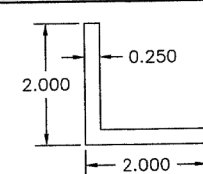
⑬ CONTINUOUS MOUNTING ANGLE



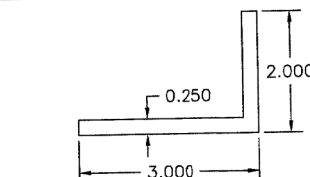
⑭ MULLION END SUPPORT ANGLE
LENGTH = 12"



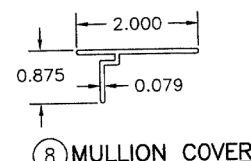
⑮ CONTINUOUS MOUNTING ANGLE



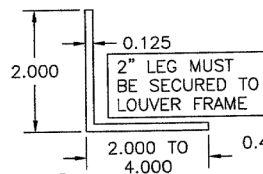
⑥ BLADE SUPPORT ANGLE
LENGTH = LOUVER HEIGHT



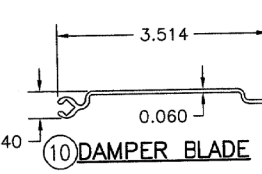
⑦ MULLION SUPPORT ANGLE
LENGTH = 12"



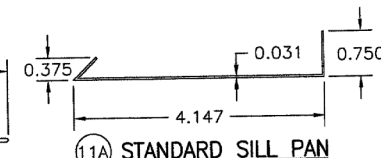
⑧ MULLION COVER



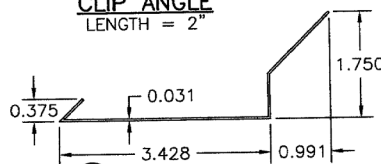
⑨ SIDE JAMB CLIP ANGLE
LENGTH = 2"



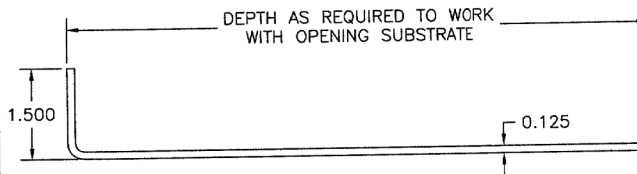
⑩ DAMPER BLADE



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

NOA-No. 26-0625.10

Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control

PRODUCT RE D

s complying with the Florida

B il ingdo e

NOA-No. 23-0486.02

xpla tiaru d at 04/22/2029

By: *[Signature]*

Mi mj-Dade Product Control



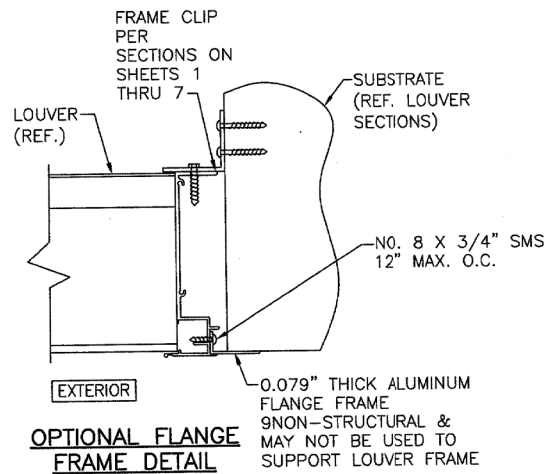
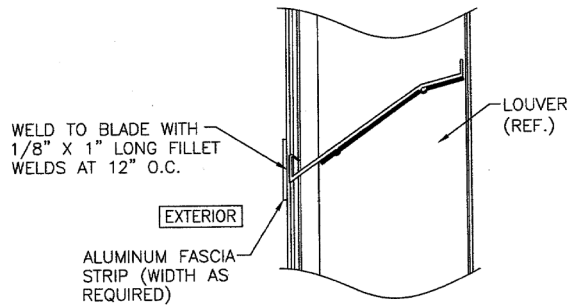
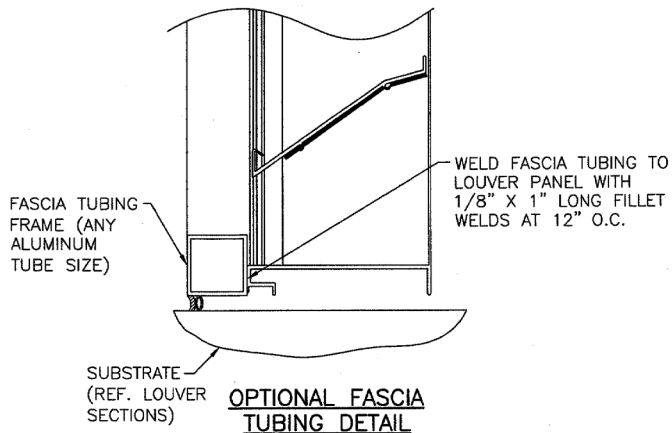
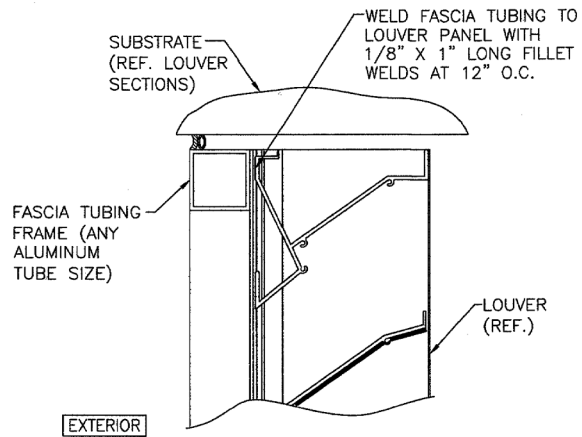
DRAWING NO. 1464
SHEET NO. 9 OF 15

REV. D

EA-64 LOUVER SYSTEM
CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.
26376 MADR 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

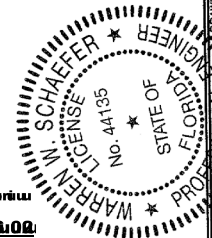
DRAWN BY: W.R.M.
CHECKED BY: W.W.S.
PLOT: 1-24
DATE: 12/02/05



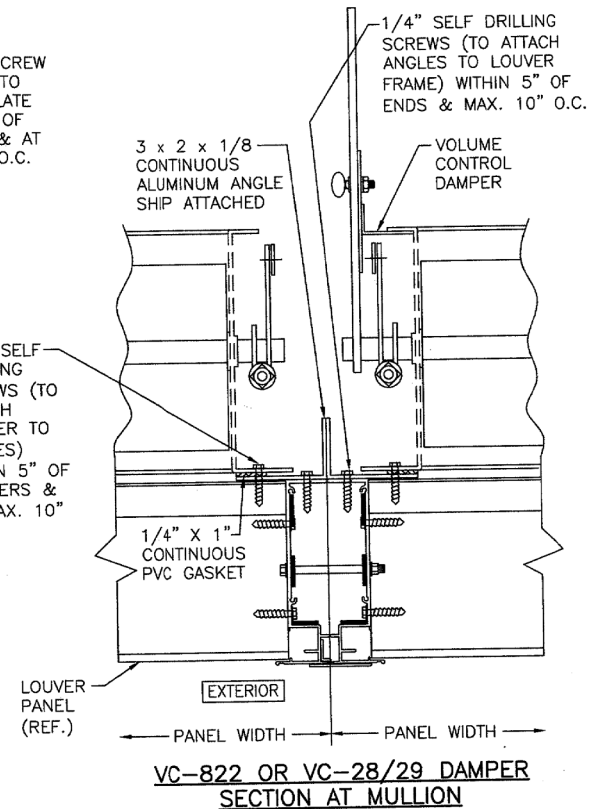
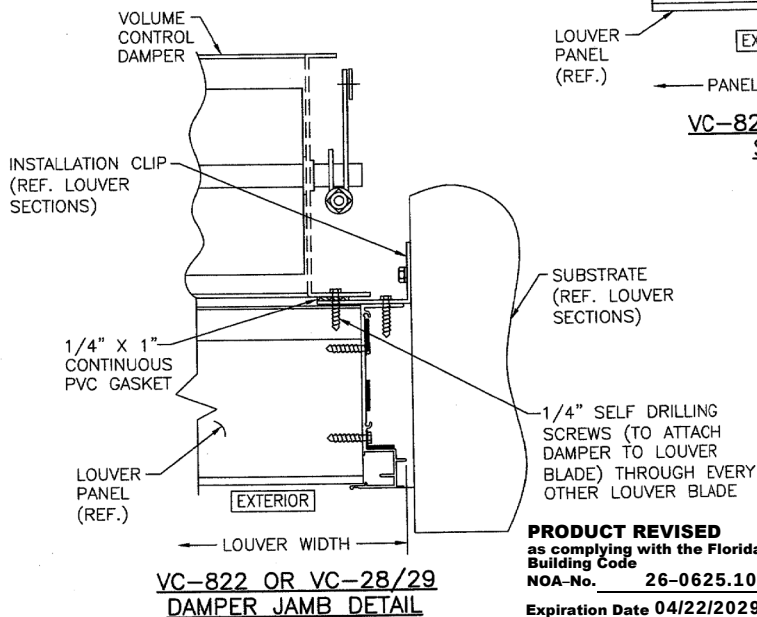
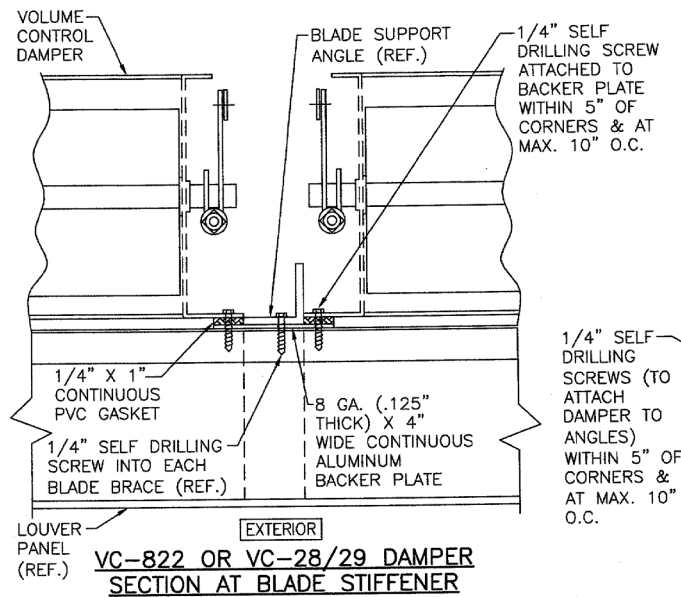
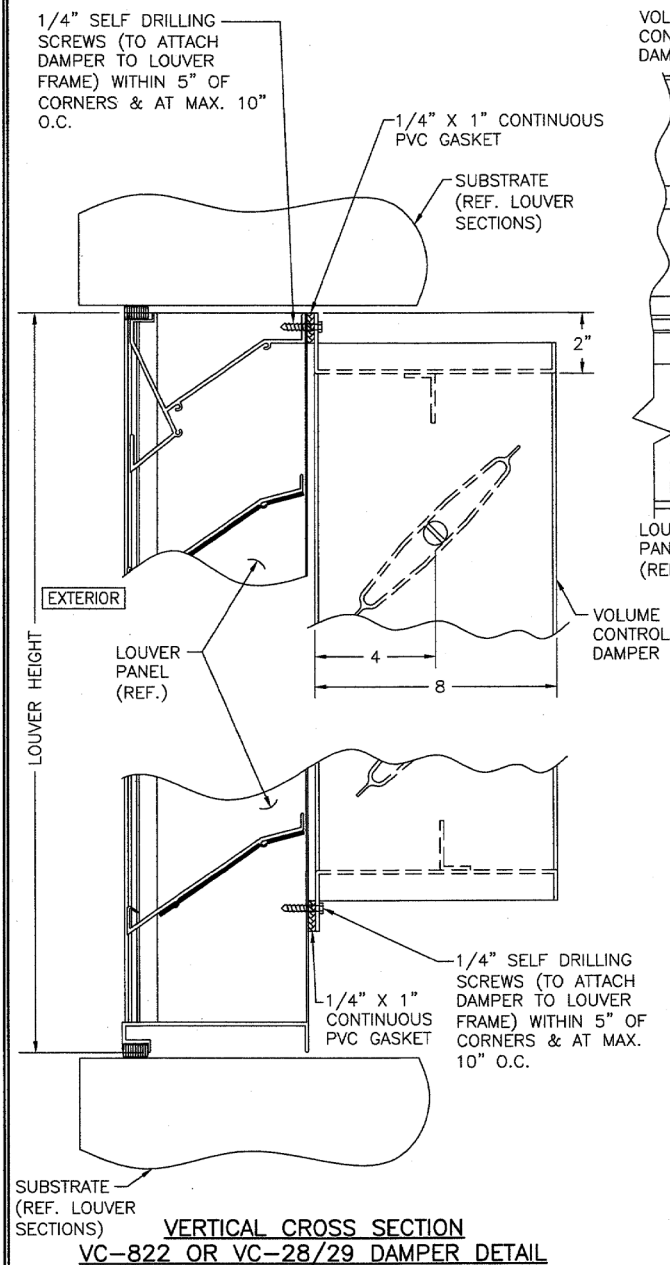
FOR LOUVER DETAILS,
SEE SHEETS 1-9

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **26-0625.10**
Expiration Date **04/22/2029**
By *[Signature]*
Miami-Dade Product Control

PRODUCT RE D
s complying with the Florida
B il ingdo e
NOA-No. **23-0426.00**
xpin tiouD at **04/22/2029**
By: *[Signature]*
Mi m-Dade Product Control



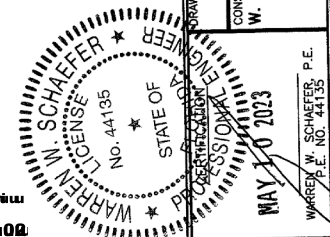
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PLOT: 1-24		DATE: 12/02/05	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: EA-64 LOUVER SYSTEM			
MANUFACTURER: ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888		CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE 361-744-3424	
DATE: MAY 10 2023		P.E. NO. 44135	
DRAWING NO.	REV.	SHEET NO.	
1464	D	10 OF 15	



FOR LOUVER DETAILS, SEE SHEETS 1-9

PRODUCT RE D
as complying with the Florida Building Code
NOA-No. 23-0426-02
By: *Warren W. Schaefer*
Expiration Date 04/22/2029

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



DRAWN BY: W.R.M.	CHECKED BY: W.S.
PLOT: 1-24	DATE: 12/02/05
DATE	BY
REVISION	DESCRIPTION
NO.	REVISION
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 MAJOR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
DRAWING TITLE EA-64 LOUVER SYSTEM	
DRAWING NO.	REV.
1464	D
SHEET NO.	
11	OF 15

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 620-746-1898 CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33993			
DRAWING TITLE PROJECTIONS FLORIDA STATE REVISIONS MAY 10 2023 WAGGON, W. SCHAEFER, P.E.			
DRAWING NO. 1464		REVISION NO. 1	
SHEET NO. 12		TOTAL SHEETS 15	

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

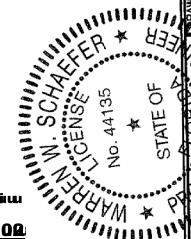
LOUVER
PANEL
(REF.)

DUCT TRANSITION
SLEEVE JAMB DETAIL

FOR LOUVER DETAILS,
SEE SHEETS 1-9

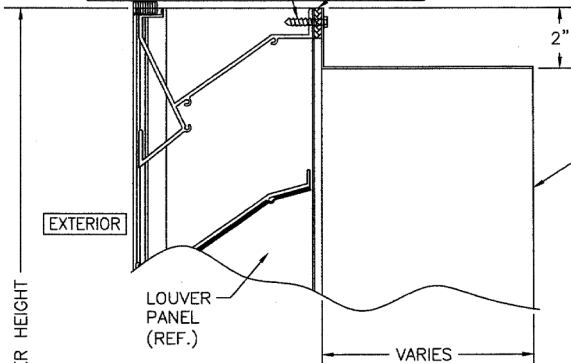
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.10
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

PRODUCT RE D
s complying with the Florida
Building Code
NOA-No. 23-0486.02
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

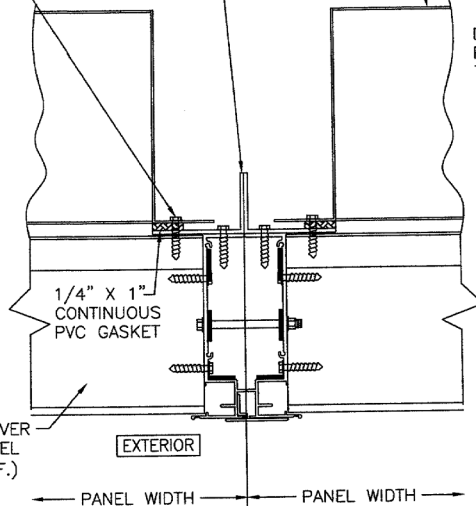


DRAWING NO. 1464
SHEET NO. 13 OF 15

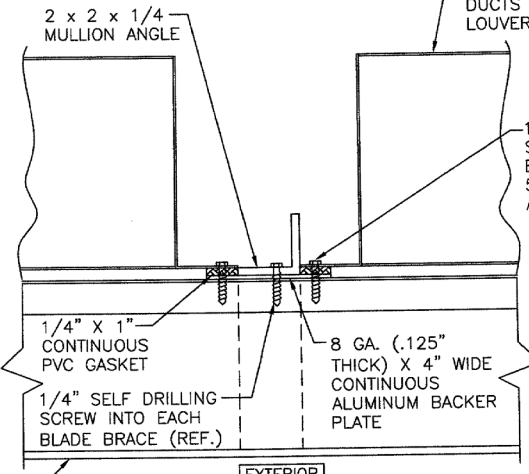
NO.	REVISION	DESCRIPTION	DATE	BY	CHECKED BY:	DATE:
1	1	24	12/02/05			
DRAWN BY: W.R.M. CHECKED BY: W.W.S. MANUFACTURER: ARROW UNITED INDUSTRIES, A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALISING, PA 18853 570-746-1888 CONSULTANTS: SCHAEFER ENGINEERING & CONSULTING, P.A. 28376 NAOR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 881-744-3624						



VERTICAL CROSS SECTION
DUCT TRANSITION SLEEVE DETAIL

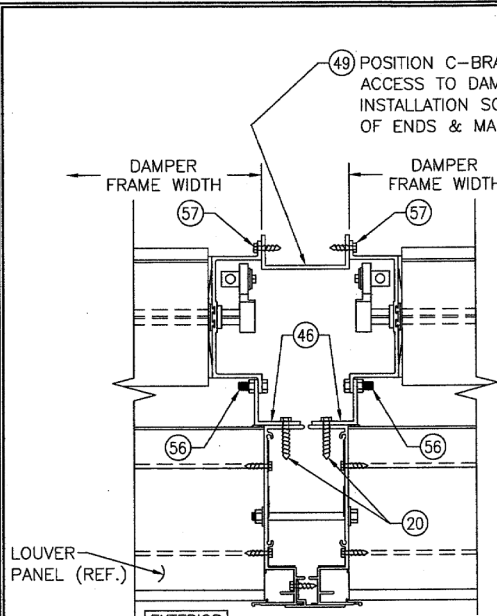


DUCT TRANSITION SLEEVE
SECTION AT MULLION



DUCT TRANSITION SLEEVE
SECTION AT BLADE STIFFENER

DRAWING NO. 1464		SHEET OF 15	
REV. D		DATE: 12/02/05	
DRAWING TITLE: EA-64 LOUVER SYSTEM		CHECKED BY: W.W.S.	
CONSULTANTS: W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 MADR ROAD; UNIT 309 PUNTA GORDA, FL 34983 PHONE 561-744-3462		DATE: 12/02/05	
MANUFACTURER: ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888		DATE: 12/02/05	
DRAWING NO. 1464		SHEET OF 15	

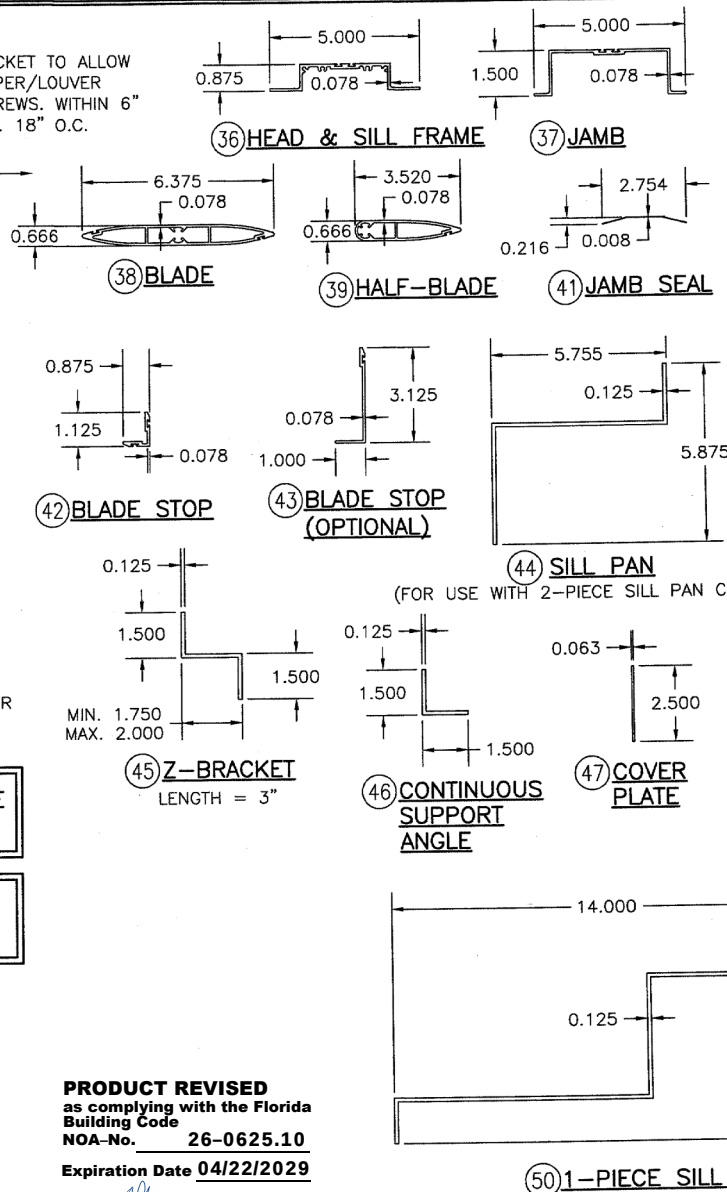


AFD-20 DAMPER MULLION SECTION AT LOUVER MULLION
(FOR DAMPER DETAIL NOT SHOWN, SEE OTHER DAMPER MULLION SECTION ON SHEET 14)

MAX. FRAME WIDTH OF ANY SINGLE AFD-20 DAMPER PANEL IS 48"

SEAL ALL STITCH WELDED SEAMS WITH SILICONE SEALANT

FOR LOUVER DETAILS, SEE SHEETS 1-9



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0625.10
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

AFD-20 DAMPER (ALL PARTS BY ARROW UNITED INDUSTRIES)

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
36	HEAD & SILL FRAME	6063-T5 ALUMINUM
37	JAMB	6063-T6 ALUMINUM
38	BLADE	6063-T5 ALUMINUM
39	HALF-BLADE	6063-T5 ALUMINUM
40	BLADE LINKAGE ASSEMBLY	BY AWV
41	JAMB SEAL	304 STAINLESS STEEL
42	BLADE STOP	6063-T5 ALUMINUM
43	BLADE STOP (OPTIONAL)	6063-T5 ALUMINUM
44	SILL PAN	5052-H32 ALUMINUM
45	Z-BRACKET	5052-H32 ALUMINUM
46	CONTINUOUS SUPPORT ANGLE	6063-T5 ALUMINUM
47	C-BRACKET	5052-H32 ALUMINUM
48	CHANNEL BRACKET	5052-H32 ALUMINUM
49	C-BRACKET	5052-H32 ALUMINUM
50	1-PIECE SILL PAN	5052-H32 ALUMINUM
MISC. FASTENERS		
53	NO. 8 X 3/4" SELF DRILLING SCREW	WITHIN 2" OF CORNERS & MAX. 12" O.C.
54	NO. 8 X 1/2" SELF DRILLING SCREW	4 PER PLATE
55	NO. 8 X 3/4" SELF DRILLING SCREW	2 PER Z-BRACKET
56	1/4-20 X 3/4" BOLT & NUT	WITHIN 1 1/2" FROM ENDS & MAX. 4" O.C.
57	NO. 8 X 3/4" SELF DRILLING SCREW	2 PER CHANNEL BRACKET
SEALS & SEALANTS		
61	BLADE SEAL	SOLID SILICONE

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0488.02
Expiration Date 04/22/2028
By *[Signature]*
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; DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 MADIR ROAD, UNIT 309 PUNTA GORDA, FL 33963 PHONE: 561-744-5464			
DRAWING TITLE EA-64 LOUVER SYSTEM			
PROFESSIONAL SEAL W. W. SCHAEFER, P.E. NO. 44135 STATE OF FLORIDA MAY 10 2023			
DRAWING NO. 1464		REV. D	
SHEET NO. 15		OF 15	