



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

Air Balance, 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 A320 6" Aluminum Louver System (Dp ± 180.0 psf)

APPROVAL DOCUMENT: Drawing No. **1465**, titled "A320 Louver System", sheets 1 through 15 of 15, dated 12/02/2005, with revision **D1** dated 04/18/2023, 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. 23-0713.06** 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. 26-0625.08
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. 05-1206.03*)

1. Manufacturer's die drawings and sections.
2. Drawing No. **1465**, titled "A320 Louver System", sheets 1 through 15 of 15, dated 04/03/03, 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. 19-0306.04)

B. TESTS (*Submitted under NOA No. 19-0306.04*)

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 02/26/19, 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. Abraham, 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. 08-1224.01)

C. CALCULATIONS (*Submitted under NOA No. 19-0306.04*)

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. 26-0625.08
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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 (*Submitted under NOA No. 20-0622.23*)

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.
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. 19-0306.04*)

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA#23-0426.04

A. DRAWINGS

1. Drawing No. **1465** titled "A320 6" 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. None.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 26-0625.08
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER NOA # 23-0713.06 AND NEW

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the **FBC 8th Edition (2023) and FBC 9th Edition (2026)**, including special limitation note that anchors in saltwater environment must meet corrosion resistance requirements of FBC, Chapter 17, dated 07/01/26, issued by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of code conformance to the **FBC 7th Edition (2020) and FBC 8th Edition (2023)**, dated 07/01/23, issued 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. 26-0625.08
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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	(9) 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 TWO 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: AIR BALANCE INC. 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
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By: *Manuel Fern*
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.

INSTALLATION CLIP (AT SIDES ONLY)

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 PANEL. BLADE SUPPORT ANGLE IS CONTINUOUS FROM HEAD TO SILL AND SPLICING OF THIS ANGLE IS NOT PART OF THIS APPROVAL.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713.04
Expiration Date: 04/22/2029
By: *W. Schaefer*
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. 1465
SHEET NO. 1 OF 15

DRAWN BY: W.R.M.		CHECKED BY: W.M.S.	
PLOT: 1-24		DATE: 12/02/05	
NO.	REVISION DESCRIPTION	DATE	BY
A1	UPDATE TO CURRENT STANDARDS	11/09/11	W.R.M.
B1	MANUFACTURER NAME CHANGE	07/05/17	W.M.S.
C1	CHANGE CLIP SPACING	02/26/19	W.M.S.
D1	UPDATED NOTES	04/19/23	W.M.S.

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
2835 S.W. 8th Ave., Unit 309
MIAMI, FL 33135
PHONE: 561-744-3424

MANUFACTURER
AIR BALANCE, INC.
A DIVISION OF MESTEK, INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

PROFESSIONAL SEAL
STATE OF FLORIDA
W. W. SCHAEFER, P.E.
No. 44135
EXPIRATION DATE 12/31/2024

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		36"	175.3		36"	125.2		36"	87.6
	90"	116.9		30"	180.0		30"	150.2		30"	105.2
	84"	125.2	66"	96"	59.8	96"	24"	180.0	132"	24"	131.5
42"	78"	134.8		90"	63.7		96"	41.1		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
48"	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	108"	54"	73.0		60"	43.6
48"	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		30"	180.0		36"	109.6		42"	62.2
48"	60"	150.2	72"	96"	54.8		30"	131.5	144"	36"	72.6
	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		96"	36.5		18"	145.2
48"	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
48"	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		30"	175.3		48"	73.0		30"	67.1
42"	42"	180.0		24"	180.0		42"	83.5		24"	83.9
							36"	97.4		18"	111.8
							30"	116.9			
							24"	146.1			
							18"	180.0			

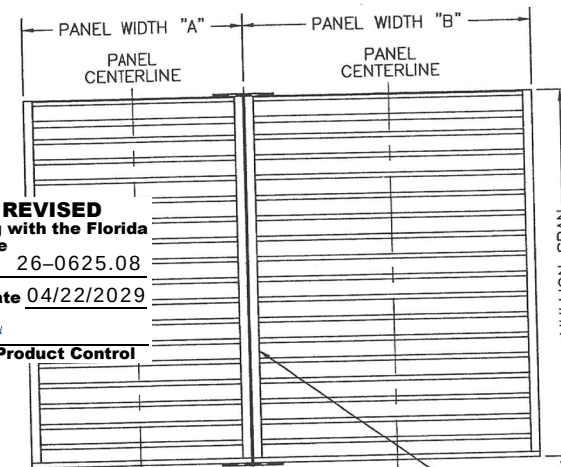
NOTE: CLIP SPACING SHOWN SHALL BE REDUCED TO 9.5" & 15" RESPECTFULLY WHEN SUBSTRATE IS CMU.

PANEL LOAD TABLE

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			

(1) ALL SHAPED LOUVER PANELS ARE RESTRICTED TO A FRAME CLIP SPACING OF 12.5" OR 9.5" O.C. 20" & 15" CLIP SPACING IS ONLY ALLOWED ON RECTANGULAR & SQUARE SHAPE LOUVERS.
(2) PRESSURES RELATING TO 12.5" & 9.5" CLIP SPACINGS SHALL BE APPLICABLE TO ALL SLEEVE MOUNTED LOUVERS

LOAD TABLE NOTE
(APPLICABLE TO MULLION & PANEL LOAD TABLES):
THE LESSER LOAD FROM THE MULLION LOAD TABLE & THE PANEL LOAD TABLE SHALL CONTROL AS THE ALLOWABLE FOR THE ENTIRE MULLED UNIT.



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.08

Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04

Expiration Date: 04/22/2029

By *[Signature]*
Miami-Dade Product Control

MULLION LOAD TABLE INSTRUCTIONS:

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.

PRODUCT REVISED
as complying with the Florida
Building Code

Acceptance No. 23-0713.06
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

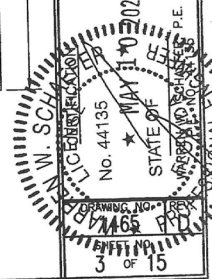
DRAWN BY: W.R.M. CHECKED BY: W.W.S.
PLOT: T-24 DATE: 12/02/05

DATE	BY	REVISION DESCRIPTION	NO.

AIR BALANCE:
A DIVISION OF MESTEK, INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

DRAWING TITLE A320 6" LOUVER SYSTEM

CONSULTANTS
SCHAEFER ENGINEERING
& CONSULTING, P.A.
26378 N.W. 100th Ave., Unit 309
MCKINNEY, TX 75069
PHONE: 951-744-3424



DRAWING NO. 100-100-100
3 OF 15

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.08
Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control

OPENING SUBSTRATE
BY OTHERS
BACKER ROD
& CAULK BY
OTHERS
1/2" MAX.
SPACE

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029
By: *[Signature]*
Miami-Dade Product Control

1/8" 5" LONG TYP. ALL BLADES
1/8" 1" - 12"
JAMB SPLICE
(MULLION
SPLICE IS NOT
PART OF THIS
APPROVAL)

CONTINUOUS
BLADE SUPPORT
BRACKET AT
BLADES ABOVE
& BELOW JAMB
SPLICE
CLIP ANCHORS
(REF. SECTIONS
"C1/5" THRU "C4/5")

4" MAX.
3 1/2" MAX.
1/2" MAX.
SPACE

POSITIONED 6" FROM
ENDS AND JAMB
SPLICE AND SPACED
PER LOAD TABLE
SILL TO JAMB CONNECTION
REQUIRES (3) 1/8" X 1"
WELDS & 2 #8 X 3/4"
S.S. SMS

SECTION
SCALE: 3"=1'-0"
(STANDARD LOUVER)

OPENING SUBSTRATE
BY OTHERS
BACKER ROD
& CAULK BY
OTHERS
1/2" MAX.
SPACE
SILICONE SEALANT AT
HEAD JAMB (FULL
AROUND HEAD JAMB END)
CONT. HEAD PAN/BLADE
RETAINER ATTACHED TO
HEAD BLADE WITH
#8X3/4" TEK SCREWS
AT 7.5" O.C. SEAL
BETWEEN SURFACES
WITH SILICONE.

1/8" 5" LONG TYP. FOR ALL BLADES
1/4 X 1/4 ADHESIVE
BACK FOAM IN
CONJUNCTION WITH
1/8" X 3/4" ADHESIVE
BACK FOAM SEAL
LOCATED AT JAMBS

CLIP ANCHORS
(REF. SECTIONS "C1/5"
THRU "C4/5")
2A(2B) 6" TALL SILL
SILICONE SEAL JAMB TO SILL
1X1X1/8 CHANNEL SPACER BLOCK
WITH #8X2" SELF DRILLING SCREW AND
ADHESIVE TAPE EVERY 7 1/2" O.C.

WEEP SLOTS 6" FROM
ENDS AND MAX. 18" O.C.
(1/4"X1" AT EXTERIOR;
1/2"X1" AT INTERIOR)
CAP SEALED WITH
SILICONE SEALANT
1/4" DIA. WEEP
HOLES 6" O.C.

SECTION
SCALE: 3"=1'-0"
(WATER RESISTANT A320C LOUVER)

1) LOUVER OPERATOR NOT SHOWN, IS
PART OF THIS APPROVAL.
2) INSTALLATIONS OF WATER RESISTANT
LOUVERS ARE LIMITED TO 33 FT. ELEVATION
3) ALL OUTSIDE CORNERS ARE TO BE
SEALED WITH SILICONE SEALANT.

OPENING SUBSTRATE
BY OTHERS
BACKER ROD
& CAULK BY
OTHERS
1/2" MAX.
SPACE

1/8" 5" LONG TYP. FOR ALL BLADES
1/4 X 1/4 ADHESIVE
BACK FOAM IN
CONJUNCTION WITH
1/8" X 3/4" ADHESIVE
BACK FOAM SEAL
LOCATED AT JAMBS

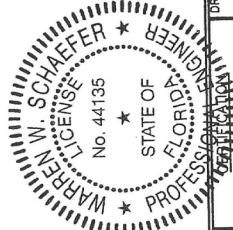
CLIP ANCHORS
(REF. SECTIONS "C1/5"
THRU "C4/5")
2A(2B) 6" TALL SILL
SILICONE SEAL JAMB TO SILL
1X1X1/8 CHANNEL SPACER BLOCK
WITH #8X2" SELF DRILLING SCREW AND
ADHESIVE TAPE EVERY 7 1/2" O.C.

WEEP SLOTS 6" FROM
ENDS AND MAX. 18" O.C.
(1/4"X1" AT EXTERIOR;
1/2"X1" AT INTERIOR)
CAP SEALED WITH
SILICONE SEALANT
1/4" DIA. WEEP
HOLES 6" O.C.

SECTION
SCALE: 3"=1'-0"
(WATER RESISTANT A320C LOUVER)

1) LOUVER OPERATOR NOT SHOWN, IS
PART OF THIS APPROVAL.
2) INSTALLATIONS OF WATER RESISTANT
LOUVERS ARE LIMITED TO 33 FT. ELEVATION
3) ALL OUTSIDE CORNERS ARE TO BE
SEALED WITH SILICONE SEALANT.

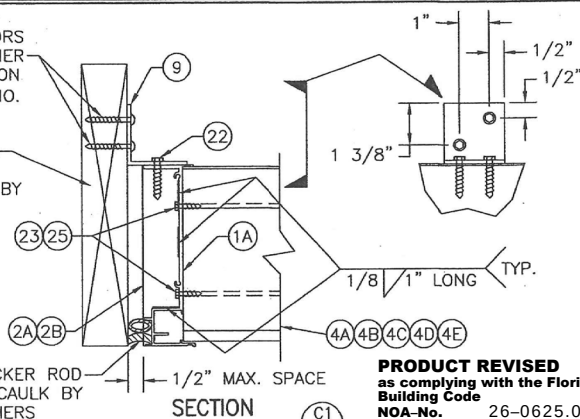
NOTE: ALL SECTIONS ON THIS SHEET
SHOW THE COMBINATION OF SCREWED &
WELDED BLADE END CONSTRUCTION. FOR
SCREWED ONLY END CONSTRUCTION,
SEE DETAILS ON SHEET 7.
OPTIONAL DETAILS ON SHEET 7 ARE
NOT RATED FOR WATER RESISTANCE
UNLESS THE AFD-20 DAMPER IS
PLACED BEHIND THE LOUVER
AS STATED IN GENERAL NOTE NO. 11



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-4	DATE: 12/02/05
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE A320 LOUVER SYSTEM	
MANUFACTURER AIR BALANCE 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 DADE COUNTY, FL 33133 PHONE: 561-714-3424	
DATE MAY 18 2023	
DRAWING NO. 1465	
SHEET NO. 4 OF 15	

CLIP ANCHORS
PER FASTENER
SCHEDULE ON
SHEET 1 (NO.
10 SCREW)

MIN. 2X
WOOD
FRAMING BY
OTHERS



SECTION C1
SCALE: 3"=1'-0"
(TO WOOD)

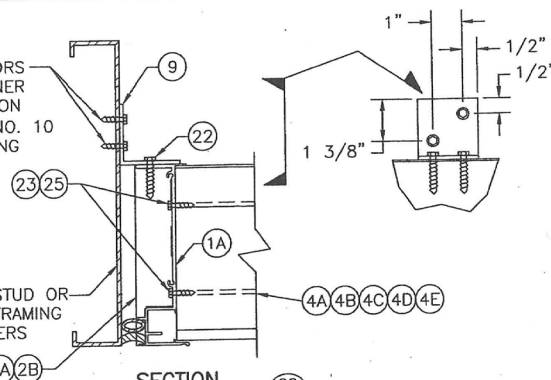
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.08

Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control

CLIP ANCHORS
PER FASTENER
SCHEDULE ON
SHEET 1 (NO. 10
SELF TAPPING
SCREW)

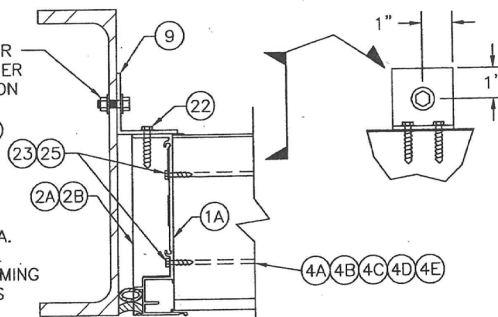
METAL STUD OR
STEEL FRAMING
BY OTHERS



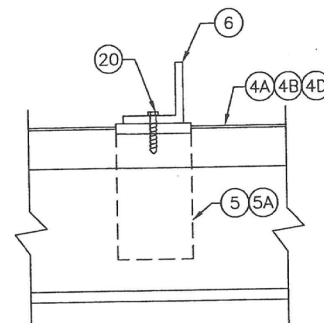
SECTION C2
SCALE: 3"=1'-0"
(OPTION 1 TO METAL STUD OR STEEL)
(SEE SECTION "C1" FOR DETAIL NOT SHOWN)

CLIP ANCHOR
PER FASTENER
SCHEDULE ON
SHEET 1
(1/4" BOLT)

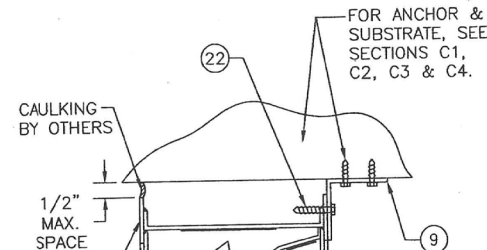
MIN. 12 GA.
STRUCTURAL
STEEL FRAMING
BY OTHERS



SECTION C4
SCALE: 3"=1'-0"
(OPTION 2 TO METAL STUD OR STEEL)
(SEE SECTION "C1" FOR DETAIL NOT SHOWN)



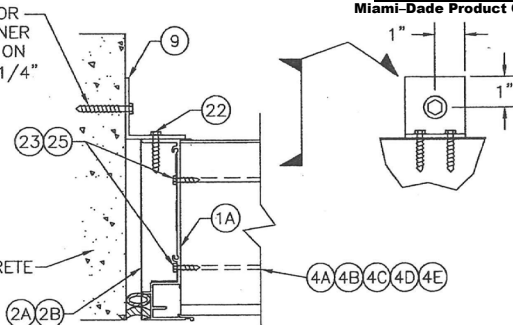
SECTION D
SCALE: 3"=1'-0"



SECTION C5
SCALE: 3"=1'-0"

CLIP ANCHOR
PER FASTENER
SCHEDULE ON
SHEET 1 (1/4"
CONCRETE
SCREW)

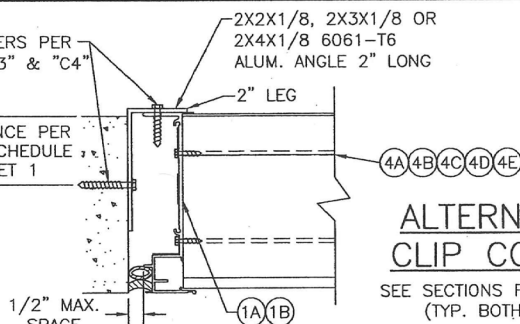
BLOCK/CONCRETE
OPENING BY
OTHERS



SECTION C3
SCALE: 3"=1'-0"
(TO BLOCK/CONCRETE)
(SEE SECTION "C1" FOR DETAIL NOT SHOWN)

CLIP FASTENERS PER
SECTIONS "C3" & "C4"

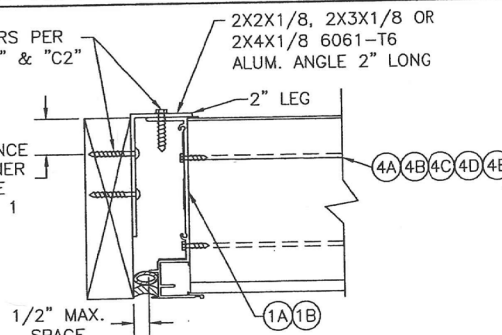
EDGE DISTANCE PER
FASTENER SCHEDULE
ON SHEET 1



TO CONCRETE/BLOCK OR STEEL

CLIP FASTENERS PER
SECTIONS "C1" & "C2"

EDGE DISTANCE
PER FASTENER
SCHEDULE
ON SHEET 1



TO WOOD/METAL FRAMING, BUCK OR STEEL

ALTERNATE PANEL CLIP CONNECTIONS

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

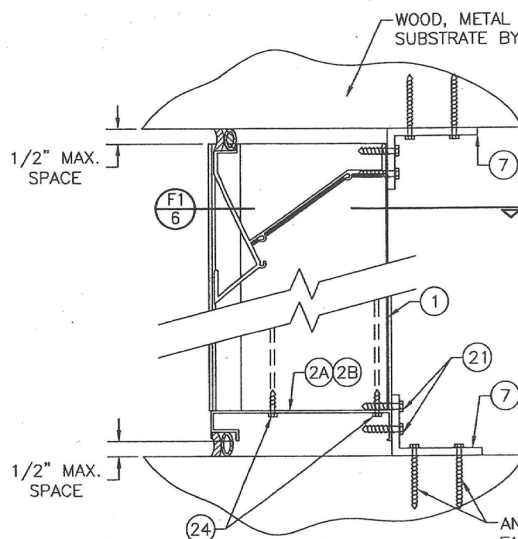
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713.06
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029

By *[Signature]*
Miami-Dade Product Control



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLT: 1-4	DATE: 12/02/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE A320 LOUVER SYSTEM	
MANUFACTURER AIR BALANCE: A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 2350 JAMES ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
DATE MAY 10 2023	
DRAWING NO. 1465	
SHEET NO. 5 OF 15	



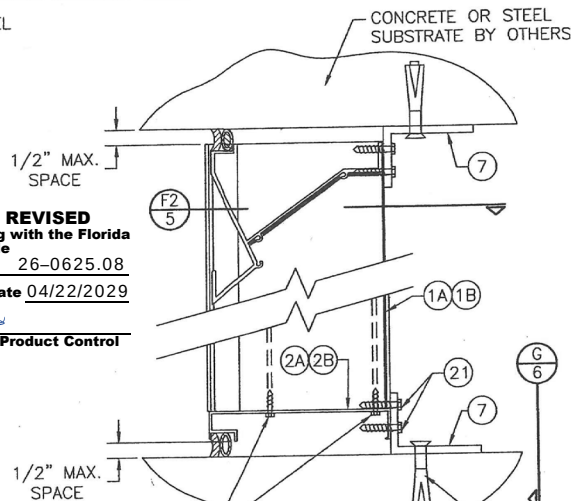
SECTION E1
SCALE: 3"=1'-0"
(INTO WOOD, METAL STUD OR STEEL OPENING)

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)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0625.08

Expiration Date 04/22/2029

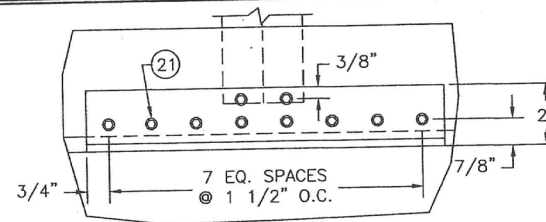
By *[Signature]*
Miami-Dade Product Control



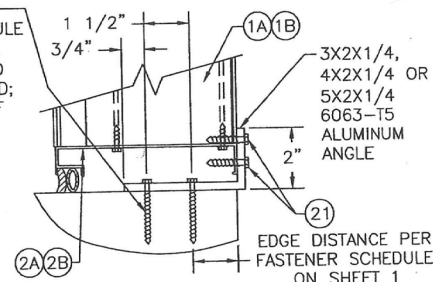
SECTION E2
SCALE: 3"=1'-0"
(INTO CONCRETE OR STRUCTURAL STEEL OPENING)

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

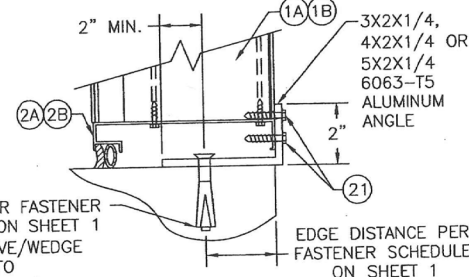
ANCHOR PER FASTENER SCHEDULE ON SHEET 1 (NO. 10 SMS OR WOOD SCREW INTO WOOD; MIN. NO. 10 SELF TAPPING SCREW INTO METAL STUD OR STEEL)



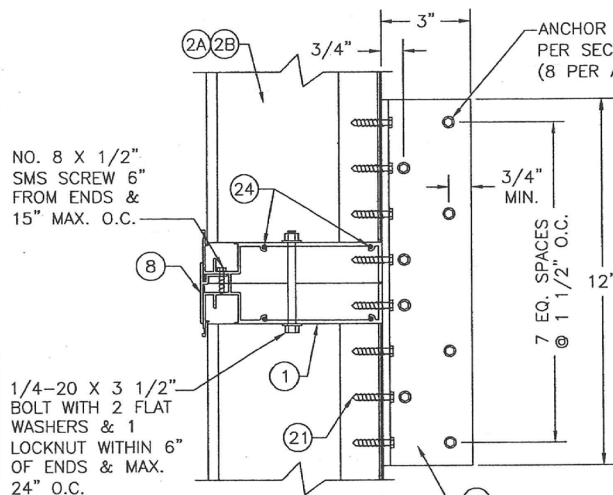
VIEW
SCALE: 3"=1'-0"
(SEE SECTION E1/6 OR E2/6 FOR ANCHORS TO OPENING OR J/7 FOR WELDS TO SLEEVE)



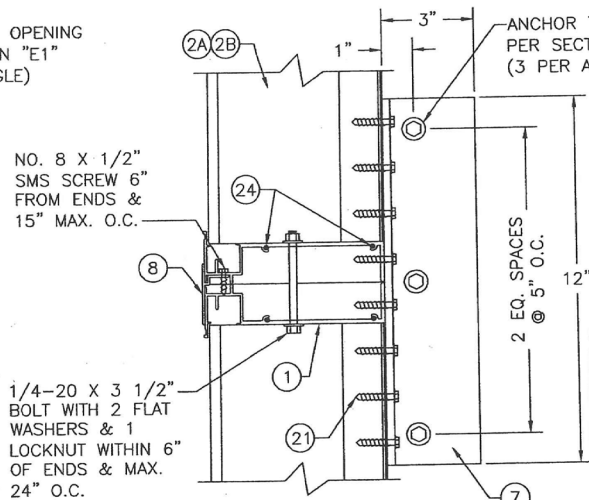
OPTIONAL SECTION E1
SCALE: 3"=1'-0"
SILL SHOWN; HEAD SIMILAR



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



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

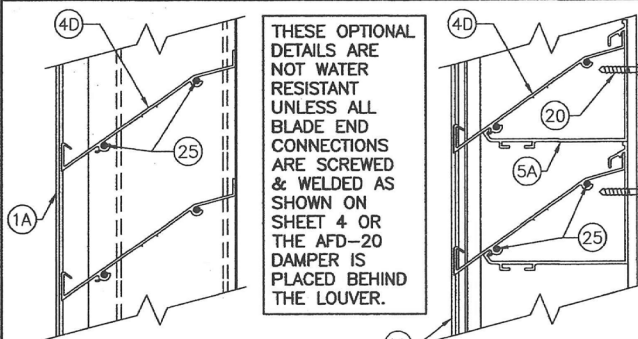


SECTION F2
SCALE: 3"=1'-0"

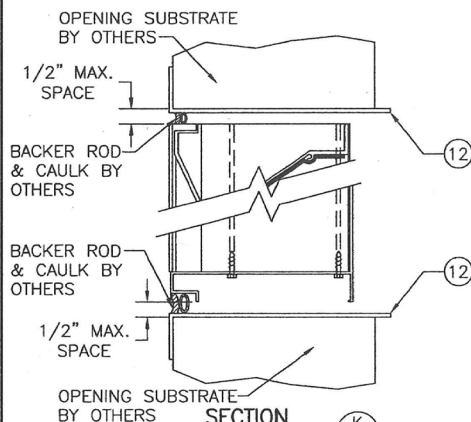
PRODUCT REVISED
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Acceptance No. 23-0713.06
Expiration Date 04/22/2029
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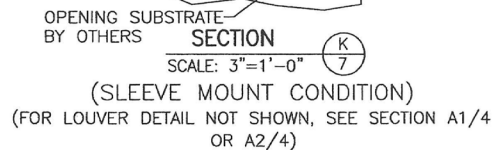
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 12/02/05
DATE	BY
REVISION DESCRIPTION	NO.
A320 LOUVER SYSTEM MANUFACTURER: AIR BALANCE, INC. A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 28376 NADIR ROAD, SUITE 309 FORT MYERS, FL 33903 PHONE 941-744-3424	
STATE OF FLORIDA	LICENSE NO. 44135 W. W. SCHAEFER P.E. NO. 44135
DRAWING NO.	REV.
1465	D
SHEET NO.	6 OF 15



**OPTIONAL BLADE DETAIL
WITH SCREWED END
CONSTRUCTION
(STANDARD LOUVER)**



**OPTIONAL BLADE
SUPPORT BRACKET
DETAIL WITH SCREWED
END CONSTRUCTION**



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

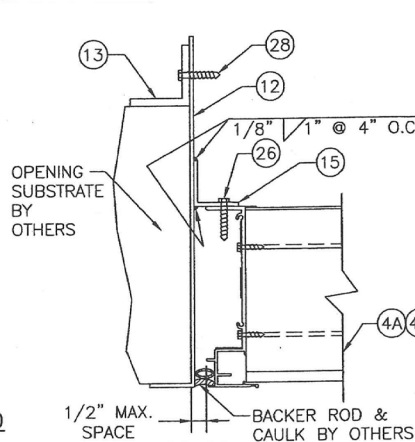
(SLEEVE MOUNT CONDITION)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION A1/4
OR A2/4)

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 26-0625.08

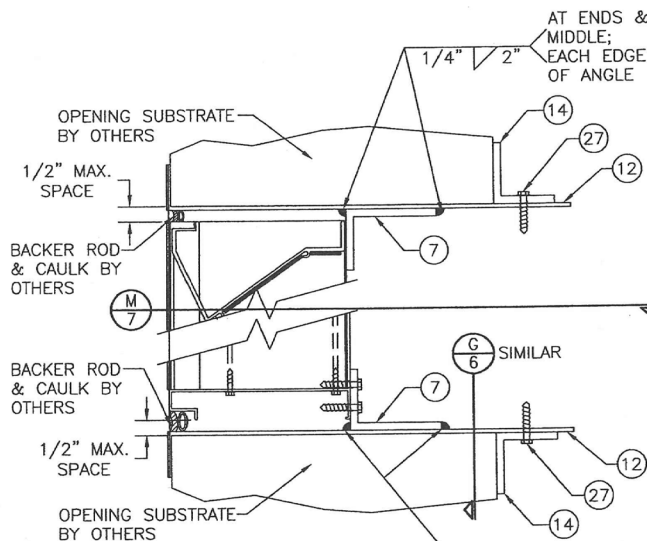
Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control



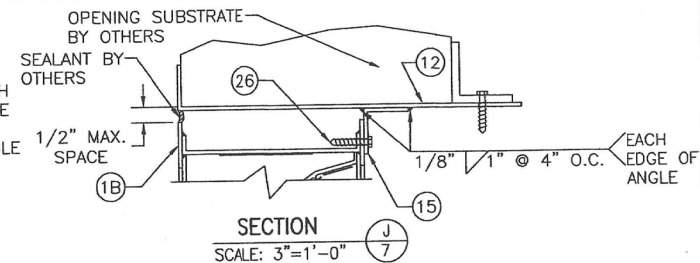
SECTION H
SCALE: 3"=1'-0"

(SLEEVE MOUNT CONDITION)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION C1/5)



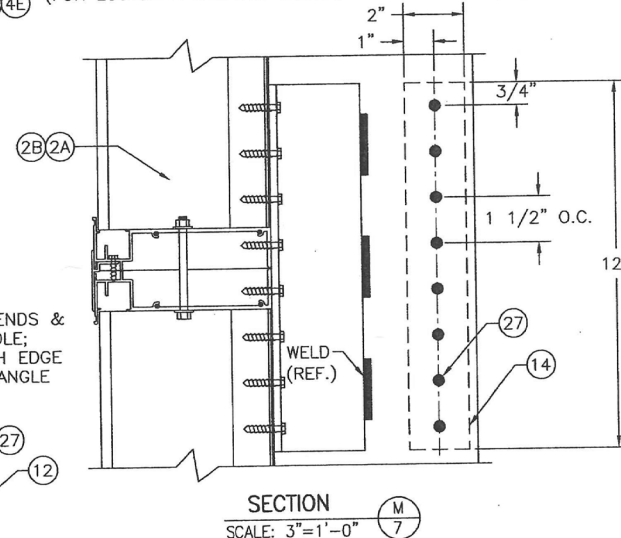
SECTION M
SCALE: 3"=1'-0"

(SLEEVE MOUNT CONDITION)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION E1/6)



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

(SLEEVE MOUNT CONDITION AT RADIUS)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION C5/5)



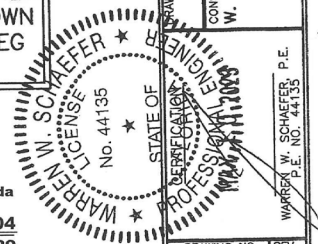
SECTION M
SCALE: 3"=1'-0"

(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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as complying with the Florida
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Acceptance No. 23-0711.06
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029
By *[Signature]*
Miami-Dade Product Control



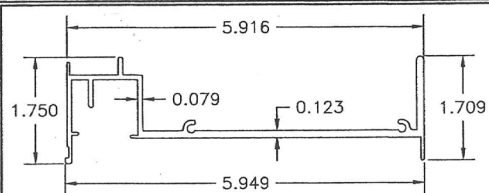
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 12/02/05	
NO.	REVISION DESCRIPTION	DATE	BY
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AIR BALANCE:
A DIVISION OF MESTEK, INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

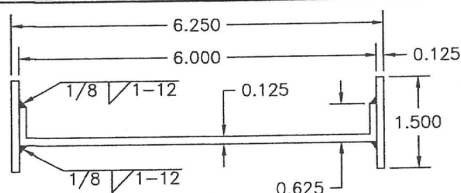
CONSULTANTS:
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.
26376 NADIR ROAD, UNIT 309
DADE COUNTY, FL 33155
PHONE: 561-744-3424

DRAWING TITLE:
A320 LOUVER SYSTEM

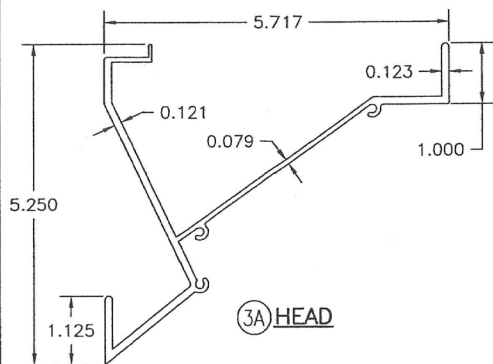
DRAWING NO. 1465
SHEET NO. 7 OF 15



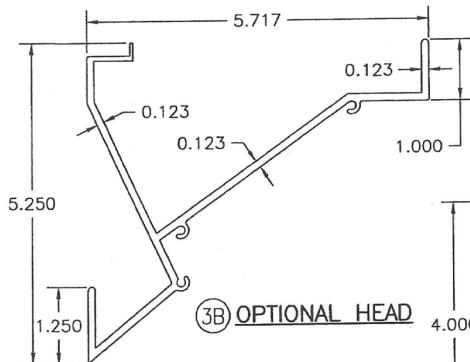
1A STANDARD STRAIGHT JAMB



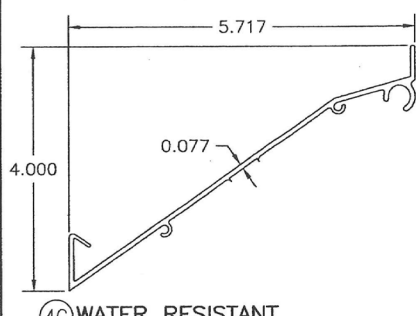
1B RADIUS JAMB



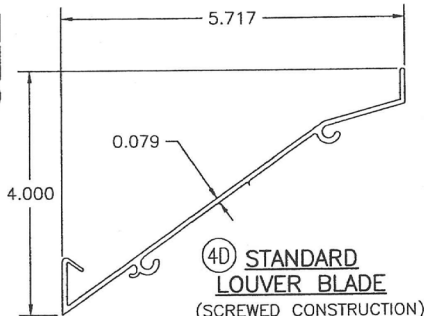
3A HEAD



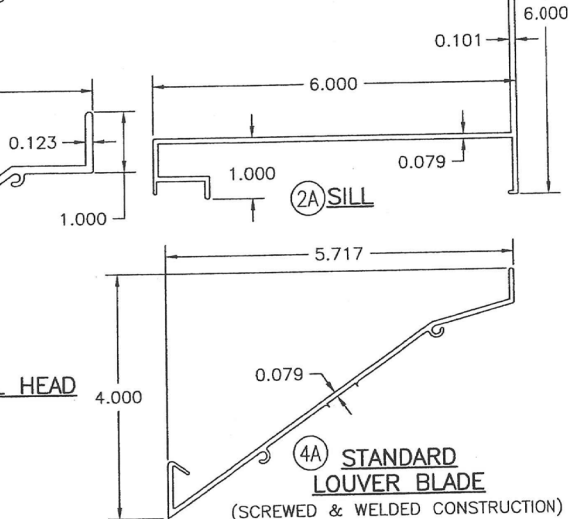
3B OPTIONAL HEAD



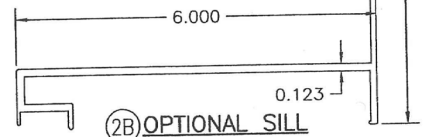
4C WATER RESISTANT LOUVER BLADE
(SCREWED & WELDED CONSTRUCTION)



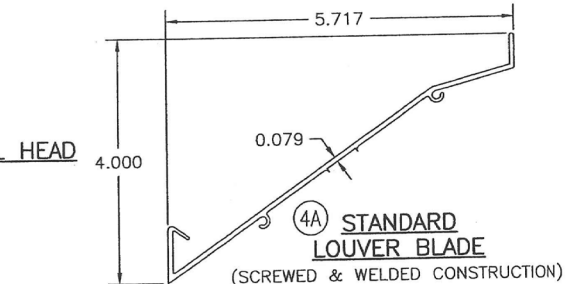
4D STANDARD LOUVER BLADE
(SCREWED CONSTRUCTION)



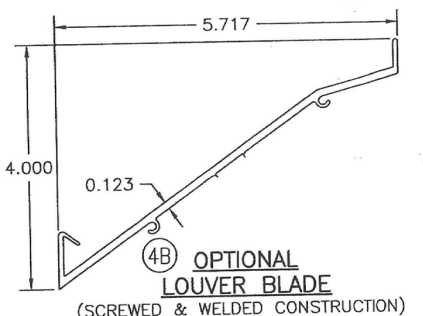
2A SILL



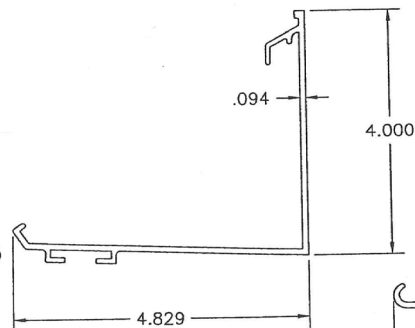
2B OPTIONAL SILL



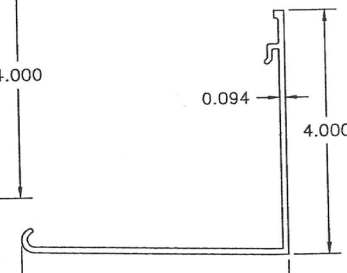
4A STANDARD LOUVER BLADE
(SCREWED & WELDED CONSTRUCTION)



4B OPTIONAL LOUVER BLADE
(SCREWED & WELDED CONSTRUCTION)



5A BLADE SUPPORT BRACKET
(SCREWED CONSTRUCTION)



5 BLADE SUPPORT BRACKET
(SCREWED & WELDED CONSTRUCTION)

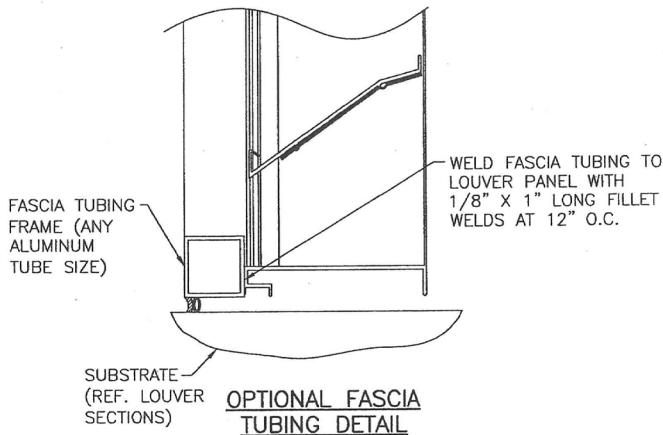
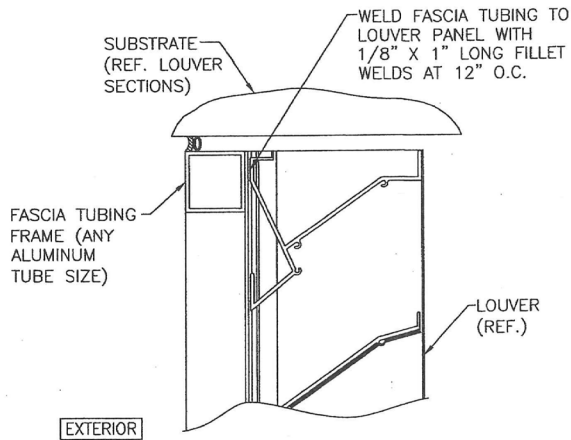
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.08
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

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as complying with the Florida
Building Code
Acceptance No. 23-0713.06
Expiration Date 04/22/2029
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PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029
By: *[Signature]*
Miami-Dade Product Control



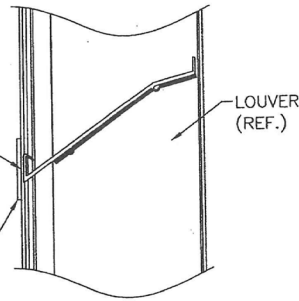
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 12/02/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: A320 LOUVER SYSTEM MANUFACTURER: AIR BALANCE, A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 28376 NADIR ROAD, UNIT 309 MIAMI GARDENS, FL 33167 PHONE: 951-744-3424			
DRAWING NO. 1465		REV. D	
SHEET NO. 8		OF 15	



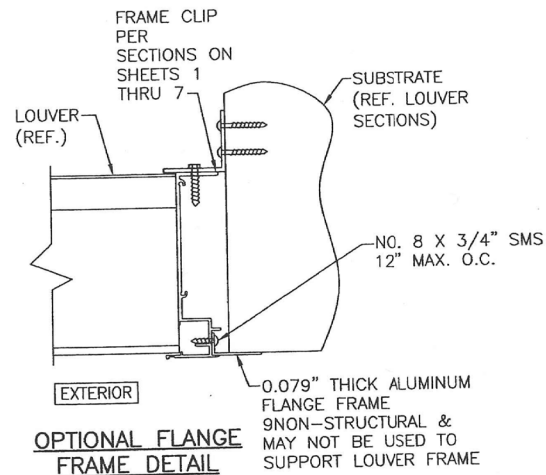
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.08
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

WELD TO BLADE WITH
1/8" X 1" LONG FILLET
WELDS AT 12" O.C.

EXTERIOR
ALUMINUM FASCIA
STRIP (WIDTH AS
REQUIRED)



**OPTIONAL FASCIA
STRIP DETAIL**

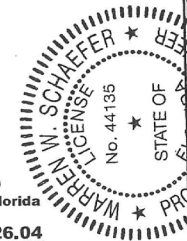


**OPTIONAL FLANGE
FRAME DETAIL**

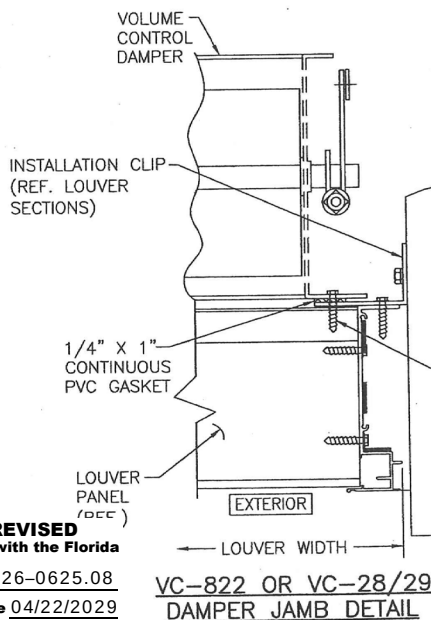
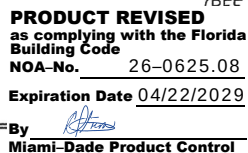
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713.06
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

FOR LOUVER DETAILS,
SEE SHEETS 1-9

PRODUCT REVISED
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Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029
By: *[Signature]*
Miami-Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-4	DATE: 12/02/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: A320 LOUVER SYSTEM	
MANUFACTURER: AIR BALANCE, A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD SUITE 309 FORT MYERS, FL 33983 PHONE: 561-744-3424	
DATE: MAY 10, 2023	
DRAWING NO. 1465	REV. D
SHEET NO. 10 OF 15	



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713.06
Expiration Date 04/22/2029
By H. G. A. Mc
Miami Department of Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029
By: Manuel Perez
Miami-Dade Product Control

DRAWING NO. 1465	SHEET NO. 11	OF 15	REV. D	DRAWING TITLE A320 LOUVER SYSTEM		MANUFACTURER AIR BALANCE; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
				CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 28376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE 381-744-3424		P.E. WARREN P. SCHAEFER, P.E. NO. 44135	

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

2"

LE42V
STORM
LOUVER

EXTERIOR

LOUVER
PANEL
(REF.)

4"

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

**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)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.08

Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control

FOR LOUVER DETAILS,
SEE SHEETS 1-9

PRODUCT REVISED
as complying with the Florida
Building Code
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Expiration Date 04/22/2029
By *[Signature]*
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PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029
By: *[Signature]*
Miami-Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 12/02/05
DATE	DATE
BY	BY
REVISION DESCRIPTION	REVISION DESCRIPTION
NO	NO
DRAWING TITLE A320 LOUVER SYSTEM	
MANUFACTURER AIR BALANCE A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE, WYALUSING, PA 18853 570-746-1888	
CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. 28378 MAJOR ROAD, UNIT 308 DADE COUNTY, FL 33155 PHONE: 301-744-3424	
DATE 12/02/2005	
DRAWING NO. 1465	REV. D
SHEET NO. 12 OF 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

EXTERIOR

LOUVER PANEL (REF.)

VARIES

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.08
Expiration Date 04/22/2029

By *[Signature]*
Miami-Dade Product Control

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.)

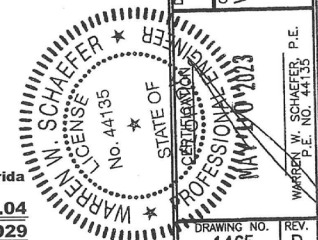
DUCT TRANSITION SLEEVE
SECTION AT BLADE STIFFENER

VERTICAL CROSS SECTION
DUCT TRANSITION SLEEVE DETAIL

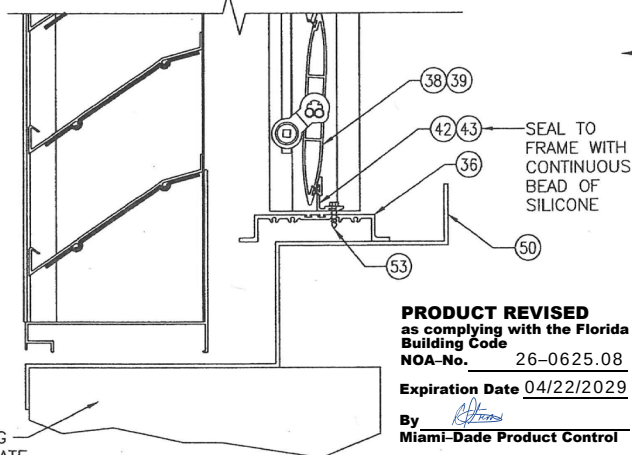
SUBSTRATE (REF. LOUVER SECTIONS)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-0713.06
Expiration Date 04/22/2029
By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029
By: *[Signature]*
Miami-Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-4		DATE: 12/02/05	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: A320 LOUVER SYSTEM			
MANUFACTURER: AIR BALANCE, A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 MADR ROAD, UNIT 309 MIAMI GARDENS, FL 33175 PHONE: 561-744-3424			
DRAWING NO. 1465		REV. D	
SHEET NO. 13		OF 15	



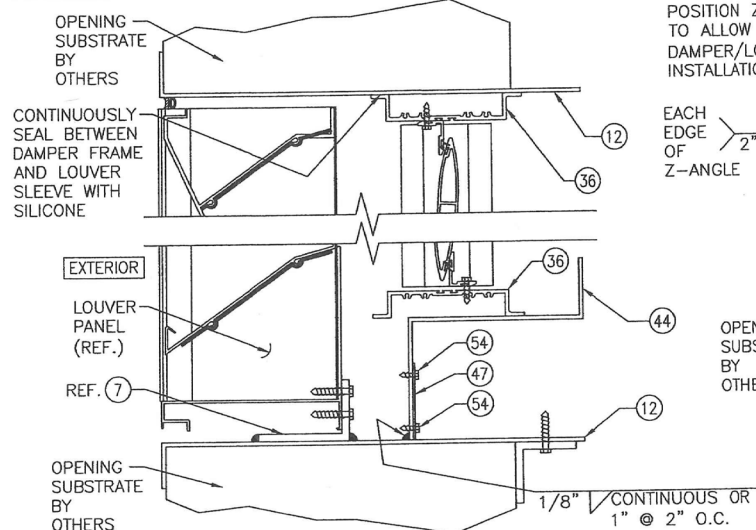
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0625.08

Expiration Date 04/22/2029

By
Miami-Dade Product Control

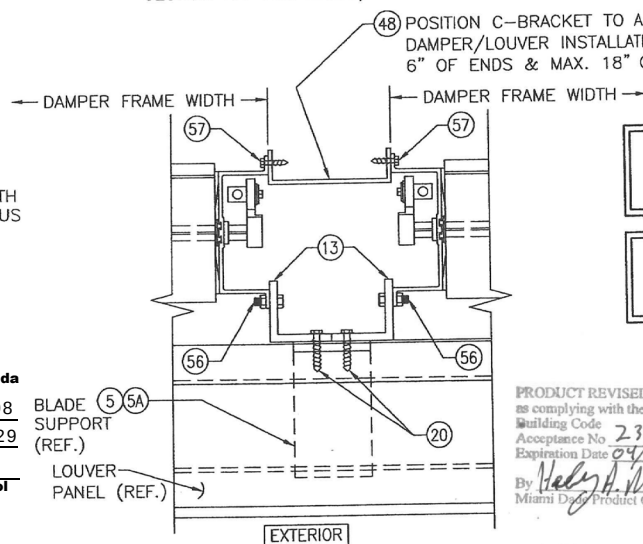
RS VERTICAL CROSS SECTION WITH
AFD-20 DAMPER WHEN NO LOUVER
MULLIONS EXIST

(DAMPER OPERATOR NOT SHOWN, IS PART OF THIS
APPROVAL)



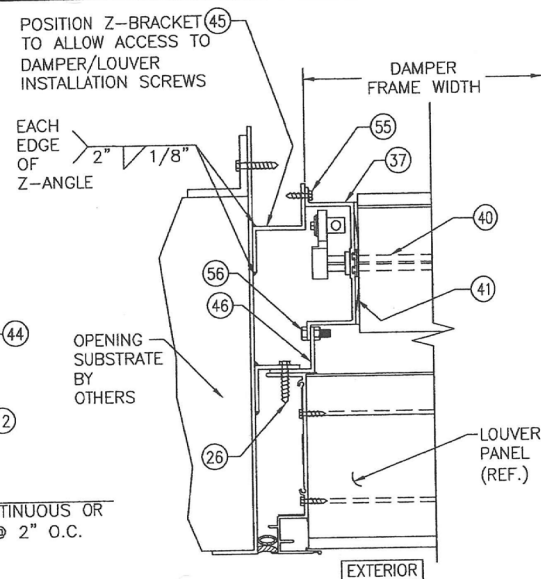
AFD-20 VERTICAL CROSS SECTION WITH
DAMPER WHEN LOUVER MULLION EXISTS

(FOR DAMPER DETAIL NOT SHOWN, SEE OTHER VERTICAL CROSS SECTION ON THIS SHEET)



AFD-20 DAMPER MULLION SECTION AT LOUVER
MID-SPAN PANEL

(FOR DAMPER DETAIL NOT SHOWN, SEE HORIZONTAL CROSS SECTION
AFD-20 DAMPER DETAIL THIS SHEET)



HORIZONTAL CROSS SECTION
AFD-20 DAMPER DETAIL

MAX. 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 23-0713.06
Acceptance No
Expiration Date 04/22/2029
By Hedy A. McIn
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0426.04
Expiration Date: 04/22/2029
By: Manuel Perez
Miami-Dade Product Control

[illegible]

DRAWING NO. 1465	SHEET NO. 15 OF 15	DRAWING TITLE A320 LOUVER SYSTEM	
		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER AIR BALANCE, A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE, WYALUSING, PA 18853 570-746-1888