



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/economy

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

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model LE-32 6" Aluminum Louver System (Dp +/- 180.0 psf)

APPROVAL DOCUMENT: Drawing No. 1217, titled "LE-32 Louver System", sheets 1 through 15 of 15, dated 04/03/2003, with revision D1 dated 02/26/2019, 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: Each unit shall bear a permanent label with the manufacturer's name or logo, Bradner, OH, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA # 19-0306.03 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.**



NOA No. 20-0622.19
Expiration Date: April 22, 2024
Approval Date: August 20, 2020
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs

A. DRAWINGS “Submitted under NOA # 11-1117.14”

1. Drawing No. **1217**, titled “LE-32 Louver System”, Sheets 1 through 15 of 15, dated 04/03/2003, with revision B1 dated 11/07/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS “Submitted under NOA # 05-0328.01”

	<u>Test Report</u>	<u>Test Standard</u>	<u>Test Date</u>	<u>Signature</u>
1.	HTL 0198-0508-03	TAS 201,202 & 203	05/15-10/03	V.J. Abraham, P.E.
2.	HTL.0198-0618-03	TAS 201, 202 & 203	06/06-25/03	V.J. Abraham, P.E.
3.	HTL 0198-0804-03	TAS 201, 202 & 203	08/06-08/03	V.J. Abraham, P.E.
4.	HTL 0198-0508-03	TAS 201, 202 & 203	05/08-13/03	V.J. Abraham, P.E.
5.	HTL 0198-0804-03	TAS 201, 202 & 203	08/08-11/03	V.J. Abraham, P.E.
6.	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-26/03	V.J. Abraham, P.E.
7.	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-04/16	V.J. Abraham, P.E.
8.	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-24/03	V.J. Abraham, P.E.
9.	HTL 0198-0324-03	TAS 201, 202 & 203	03/25-04/21	V.J. Abraham, P.E.
10.	HTL 0198-0128-03	TAS 201, 202 & 203	02/10-04/21	V.J. Abraham, P.E.
11.	HTL 0198-0508-03	TAS 202	05/13-13/03	V.J. Abraham, P.E.
12.	HTL 0198-0324-03	TAS 202	03/27-27/03	V.J. Abraham, P.E.
13.	HTL 0198-0324-03	TAS 201 & 203	03/24-04/21	V.J. Abraham, P.E.
14.	ATI 01-45720.01	TAS100 (A)-95	06/16/03	J.A. Reed, P.E.

“Submitted under NOA # 08-1224.02”

15. Test report on Wind and Wind-Driven Rain Resistance per TAS 100(A)-95 of their LE-32 Louver, prepared by PRI Construction Materials Technologies, LLC, and Report No. **AWV-007-02-02**, dated 04/28/2008, signed and sealed by Duc T. Nguyen, P.E.

C. CALCULATIONS “Submitted under NOA # 08-1224.02”

1. Anchoring calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/24/2008, signed and sealed by Warren W. Schaefer, P.E.
2. Anchoring calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 12/17/2008, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0622.19

Expiration Date: April 22, 2024
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS “Submitted under NOA # 14-0423.26”

1. Statement letter of code conformance to 2010 and 5th edition (2014) FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/10/2014, signed and sealed by Warren W. Schaefer, P.E.

“Submitted under NOA # 13-1028.09”

2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A., dated 09/04/2013, signed and sealed by Warren W. Schaefer, P.E.

2. Evidence submitted under NOA # 17-0713.09

A. DRAWINGS

1. Drawing No. **1217**, titled “LE-32 Louver System”, sheets 1 through 15 of 15, dated 04/03/2003, with revision C1 dated 07/05/2017, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

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



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0622.19
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New evidence submitted

A. DRAWINGS “Submitted under NOA # 19-0306.02”

1. Drawing No. **1217**, titled “LE-32 Louver System”, sheets 1 through 15 of 15, dated 04/03/2003, with revision D1 dated 02/26/2019, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS “Submitted under NOA # 19-0306.02”

1. Test report 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.

C. CALCULATIONS “Submitted under NOA # 19-0306.02”

1. Anchoring calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 02/26/2019, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 6th Edition (2017) and 7th Edition (2020) FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 06/03/2020, signed and sealed by Warren W. Schaefer, P.E.

“Submitted under NOA # 19-0306.02”

2. Statement letter of no financial interest issued by W. W. Schaefer Engineering & Consulting, P.A., dated 02/26/2019, signed and sealed by Warren W. Schaefer, P.E.



Carlos M. Utrera, P.E.
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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"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS OR HILTI KWIK-CON II. (HARDENED STEEL OR S.S.)
(2) BOLT SHALL BE MIN. A307 GALVANIZED OR 304 S.S. (F_y = 10,000 PSI MIN.)
(3) WOOD SCREWS SHALL HAVE MIN. YIELD STRENGTH OF F_yb = 80,000 PSI
(4) SLEEVE ANCHORS MAY BE GALVANIZED OR S.S. RAMSET RED HEAD DYNABOLTS OR POWERS RAWL POWER BOLT.
(5) SEE GENERAL NOTES FOR SUBSTRATE REQUIREMENTS.
(6) 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: AMERICAN WARMING AND VENTILATING HOLLAND, OH
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.

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. 19-0306.03

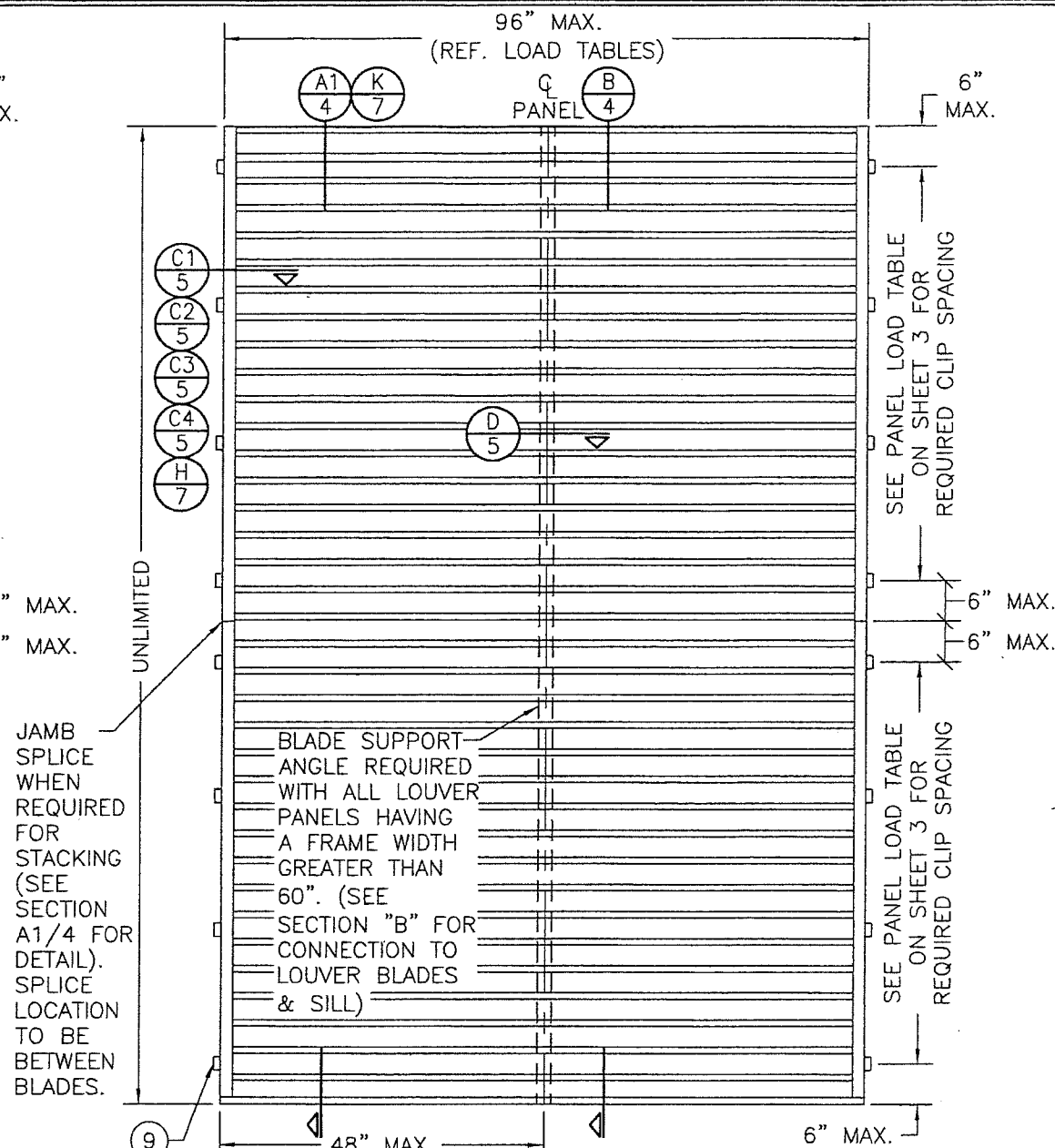
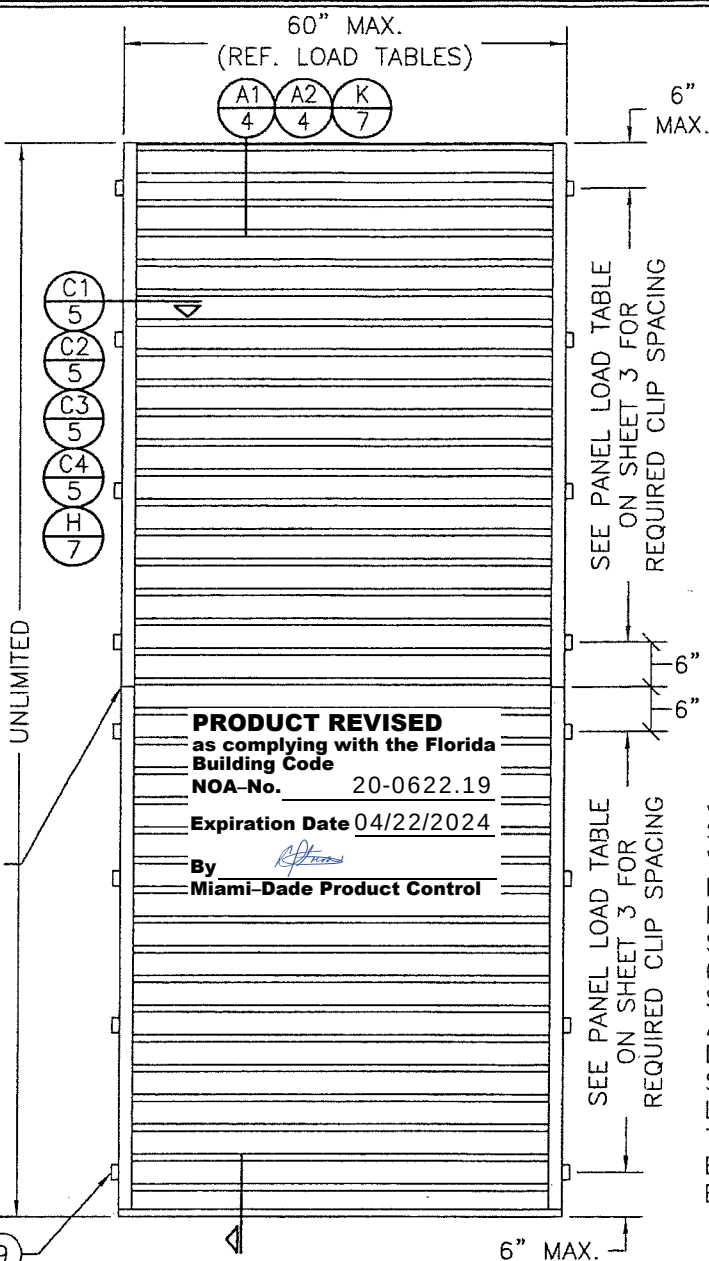
Expiration Date 04/22/2024

By *[Signature]*
Miami-Dade Product Control

ALLOWABLE PRESSURES

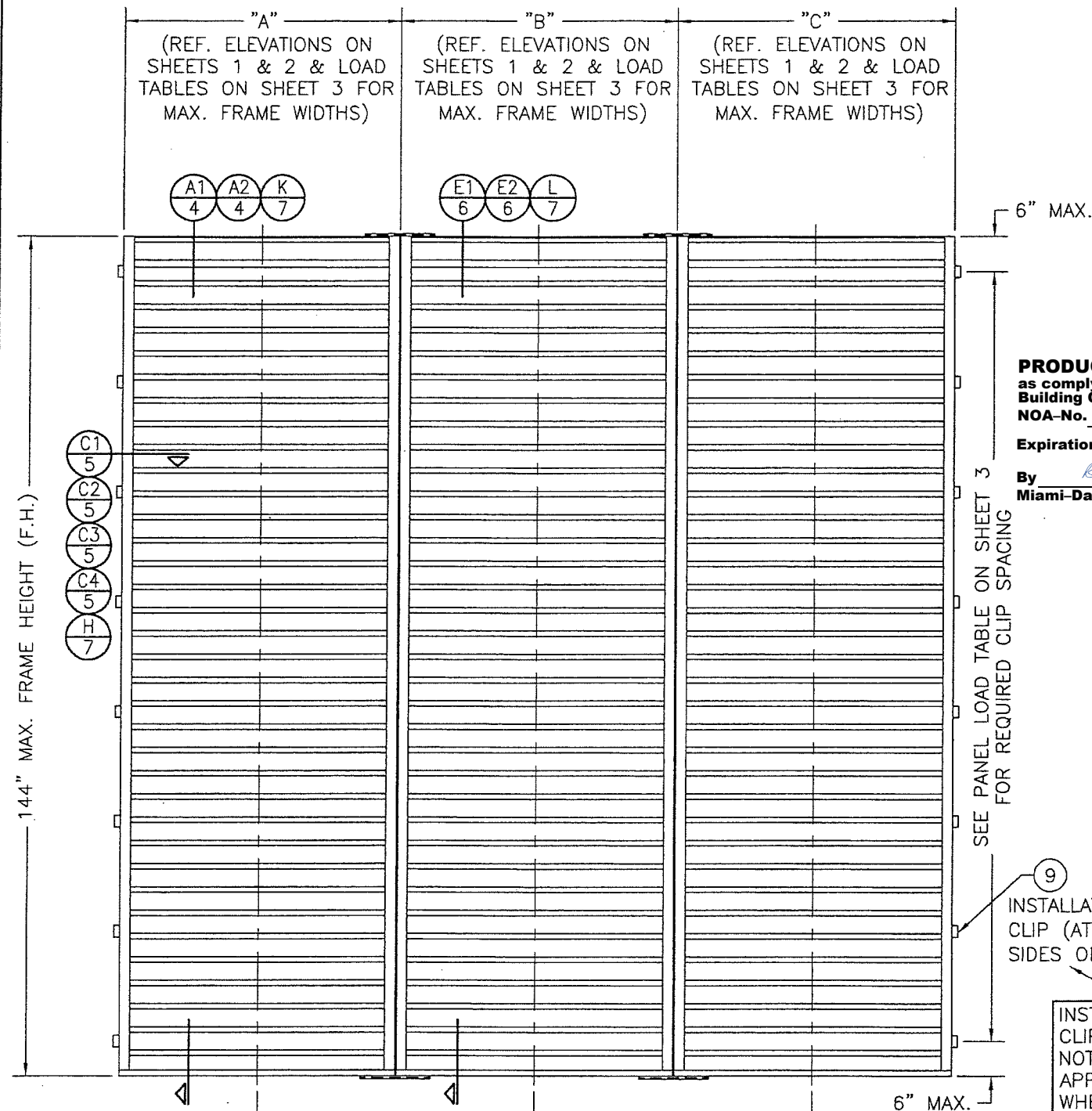
PRESSURES VARY WITH PANEL SIZE, CLIP SPACING & MULLION CONDITIONS & SHALL BE CONTROLLED BY THE LESSER OF THE ALLOWABLE PRESSURE FOR EACH OF THOSE APPLICABLE CONDITIONS. SEE LOAD TABLES ON SHEET 3 FOR ALLOWABLE PRESSURES.

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.

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.

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 04/03/03	
NO.	REVISION DESCRIPTION	BY	DATE
A2	UPDATE TO 2004 CODE	W.W.S.	08/22/05
B1	COMPLIANT	W.W.S.	11/07/11
C1	UPDATE TO CURRENT STANDARDS	W.W.S.	07/05/17
D1	MANUFACTURER NAME CHANGE	W.W.S.	02/26/19
CHANGED CLIP SPACING			
MANUFACTURER: AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000			
CONSULTANTS: W.W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
DRAWING TITLE: LE-32 LOUVER SYSTEM			
CERTIFICATION: FEB 26 2019			
P.E. NO. 44135			
DRAWING NO. 1217		REV. D	
SHEET NO. 1 OF 15			



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0622.19
Expiration Date 04/22/2024

By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 19-0306.03

Expiration Date 04/22/2024

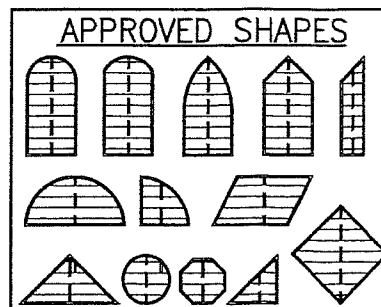
By *[Signature]*
Miami-Dade Product Control

LOAD WIDTH = $(A+B)/2$
LOAD WIDTH = $(B+C)/2$

EXTERIOR ELEVATION MULLED UNITS

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

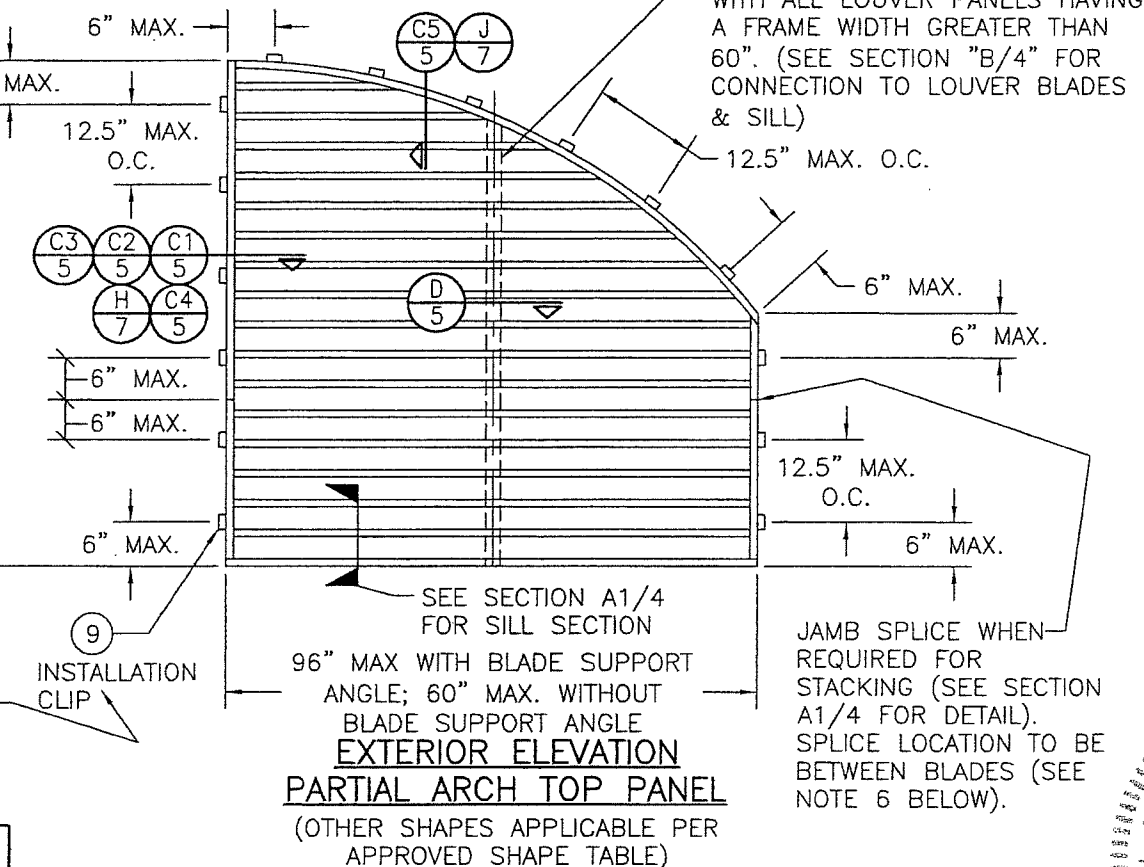
RECTANGULAR PANELS SHOWN; SHAPED PANELS MAY ALSO
BE MULLED PROVIDING THE MULLION END CONNECTIONS
ARE AS DETAILED WITH THE ABOVE RECTANGULAR ELEVATION.



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)

BLADE SUPPORT ANGLE
REQUIRED WITH ALL
LOUVER PANELS HAVING
A FRAME WIDTH GREATER
THAN 60". (SEE SECTION
"B" FOR CONNECTION TO
LOUVER BLADES & SILL)

INSTALLATION CLIPS
ARE NOT APPLICABLE
WHEN LOUVER IS
SLEEVE MOUNTED

BLADE SUPPORT ANGLE REQUIRED
WITH ALL LOUVER PANELS HAVING
A FRAME WIDTH GREATER THAN
60". (SEE SECTION "B/4" FOR
CONNECTION TO LOUVER BLADES
& SILL)

JAMB SPLICE WHEN
REQUIRED FOR
STACKING (SEE SECTION
A1/4 FOR DETAIL).
SPLICE LOCATION TO BE
BETWEEN BLADES (SEE
NOTE 6 BELOW).

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 04/03/03
DATE 08/22/05	
BY W.W.S.	
REVISION DESCRIPTION	
NO. 1	2
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DRAWING TITLE
LE-32 LOUVER SYSTEM

CONSULTANTS
W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

MANUFACTURER
AMERICAN WARMING & VENTILATING;
A DIVISION OF MESTEK, INC.
7301 INTERNATIONAL DRIVE
HOLLAND, OHIO 43528
419-865-5000

CERTIFICATION FEB 26 2019	
DRAWING NO. 1217	REV. D
SHEET NO. 2	OF 15

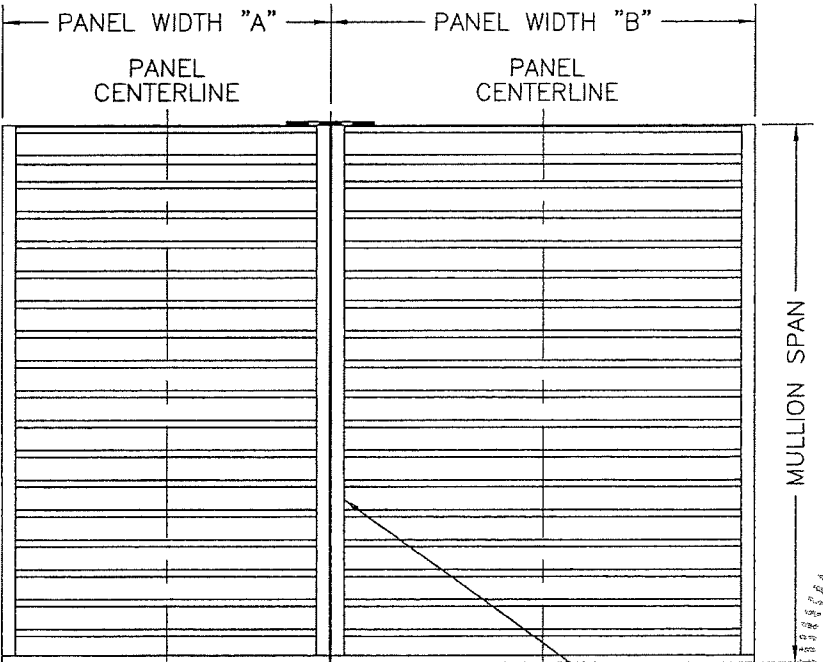
MULLION LOAD TABLE (SEE INSTRUCTIONS BELOW)											
MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)
18"	96"	180.0	60"	96"	65.7	84"	96"	47.0	120"	96"	32.9
	96"	164.3		90"	70.1		90"	50.1		90"	35.1
	96"	175.3		84"	75.1		84"	53.7		84"	37.6
24"	90"	175.3		78"	80.9		78"	57.8		78"	40.4
	84"	180.0		72"	87.6		72"	62.6		72"	43.8
	96"	131.5		66"	95.6		66"	68.3		66"	47.8
30"	90"	140.2		60"	105.2		60"	75.1		60"	52.6
	84"	150.2		54"	116.9		54"	83.5		54"	58.4
	78"	161.8		48"	131.5		48"	93.9		48"	65.7
	72"	175.3		42"	150.2		42"	107.3		42"	75.1
	66"	180.0		36"	175.3		36"	125.2		36"	87.6
36"	96"	109.6	66"	30"	180.0	96"	30"	150.2	132"	30"	105.2
	90"	116.9		96"	59.8		24"	180.0		24"	131.5
	84"	125.2		90"	63.7		96"	41.1		18"	175.3
	78"	134.8		84"	68.3		90"	43.8		96"	27.2
	72"	146.1		78"	73.5		84"	47.0		90"	29.0
	66"	159.3		72"	79.7		78"	50.6		84"	31.1
42"	60"	175.3		66"	86.9		72"	54.8		78"	33.5
	54"	180.0		60"	95.6		66"	59.8		72"	36.3
	96"	93.9		54"	106.2	96"	60"	65.7		66"	39.6
	90"	100.2		48"	119.5		54"	73.0		60"	43.6
	84"	107.3		42"	136.6		48"	82.2		54"	48.4
	78"	115.6		36"	159.3		42"	93.9		48"	54.4
	72"	125.2		30"	180.0		36"	109.6		42"	62.2
	66"	136.6		96"	54.8		30"	131.5		36"	72.6
48"	60"	150.2	72"	90"	58.4		24"	164.3	144"	30"	87.1
	54"	166.9		84"	62.6		18"	180.0		24"	108.9
	48"	180.0		78"	67.4		96"	36.5		18"	145.2
	96"	82.2		72"	73.0		90"	39.0		72"	28.0
	90"	87.6		66"	79.7		84"	41.7		66"	30.5
	84"	93.9		60"	87.6		78"	44.9		60"	33.5
	78"	101.1		54"	97.4		72"	48.7		54"	37.3
	72"	109.6		48"	109.6	108"	66"	53.1		48"	41.9
	66"	119.5		42"	125.2		60"	58.4		42"	47.9
	60"	131.5		36"	146.1		54"	64.9		36"	55.9
	54"	146.1		30"	175.3		48"	73.0		30"	67.1
	48"	164.3		24"	180.0		42"	83.5		24"	83.9
	42"	180.0					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.



MULLION "LOAD WIDTH"
= (A + B)/2
LOUVER ASSEMBLY

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.

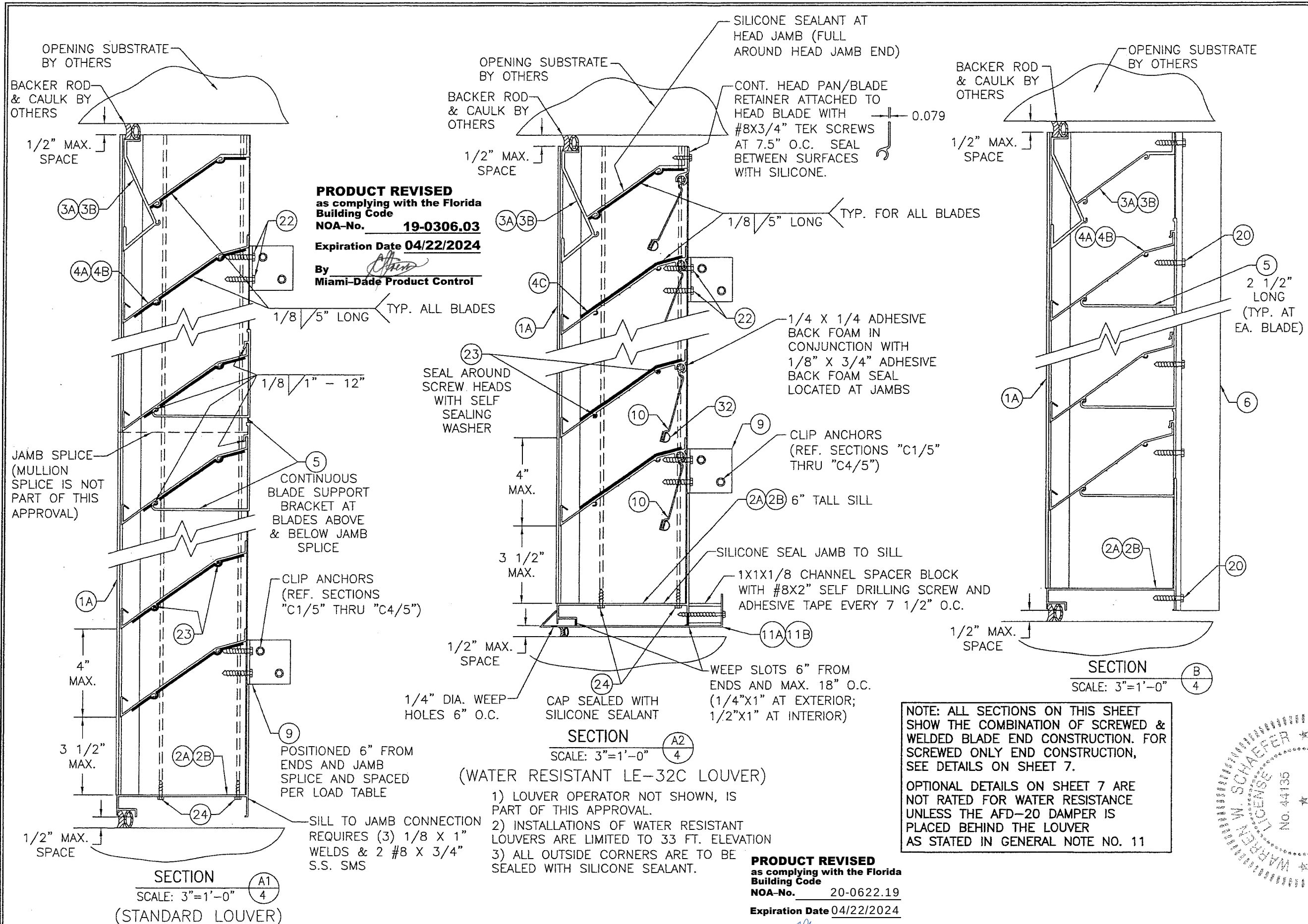
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0622.19
Expiration Date 04/22/2024

By
Miami-Dade Product Control

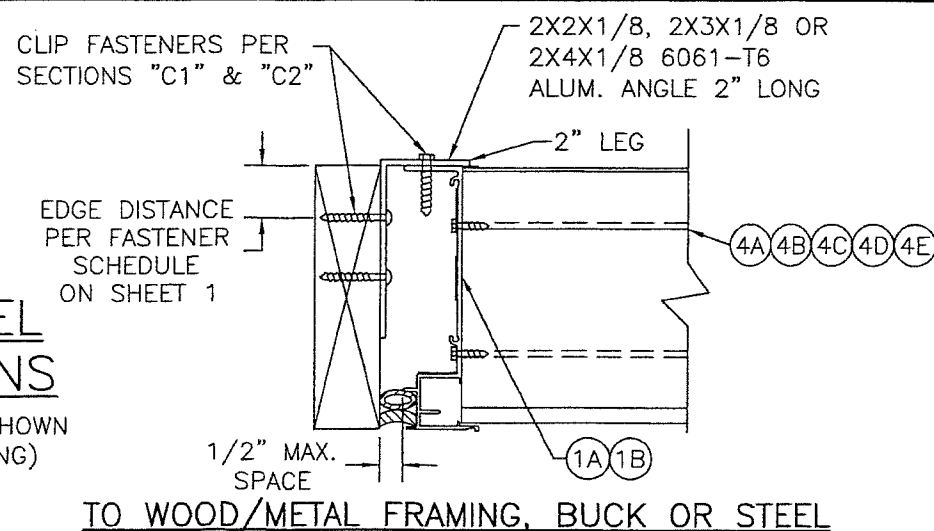
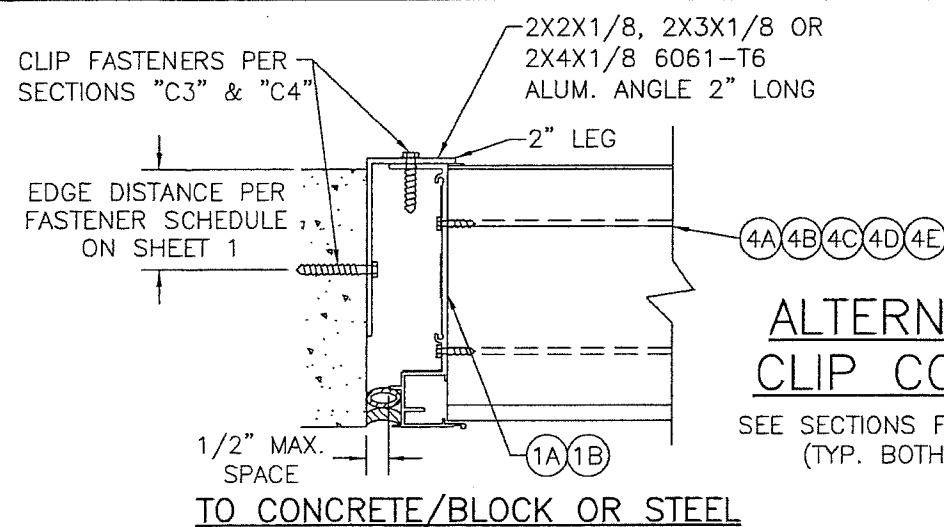
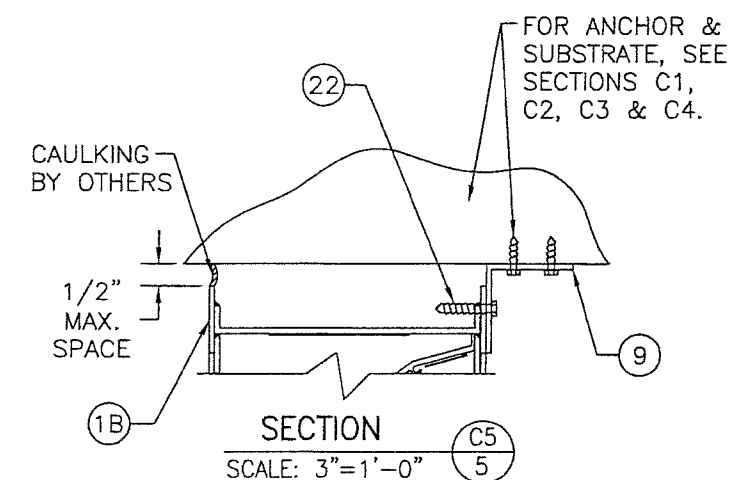
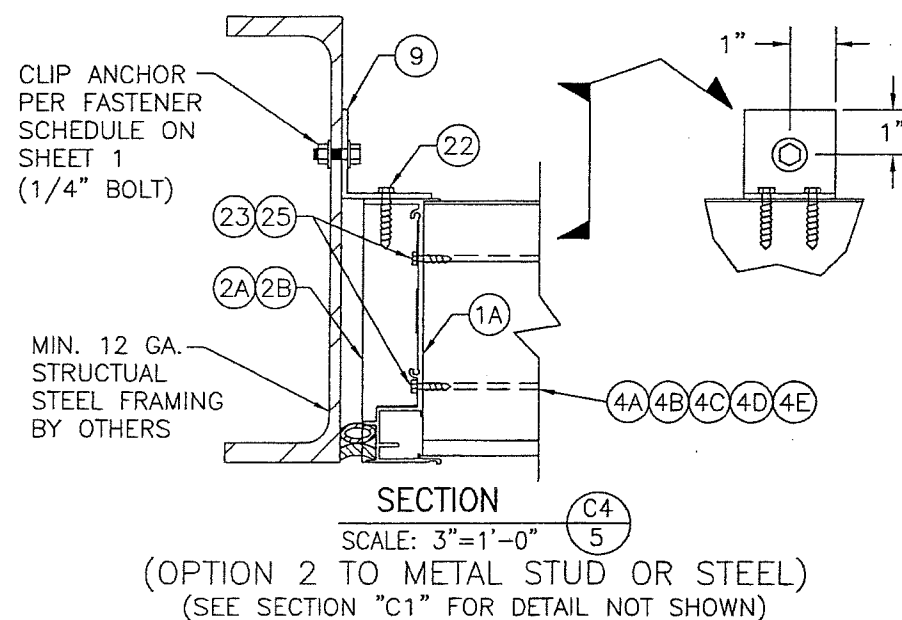
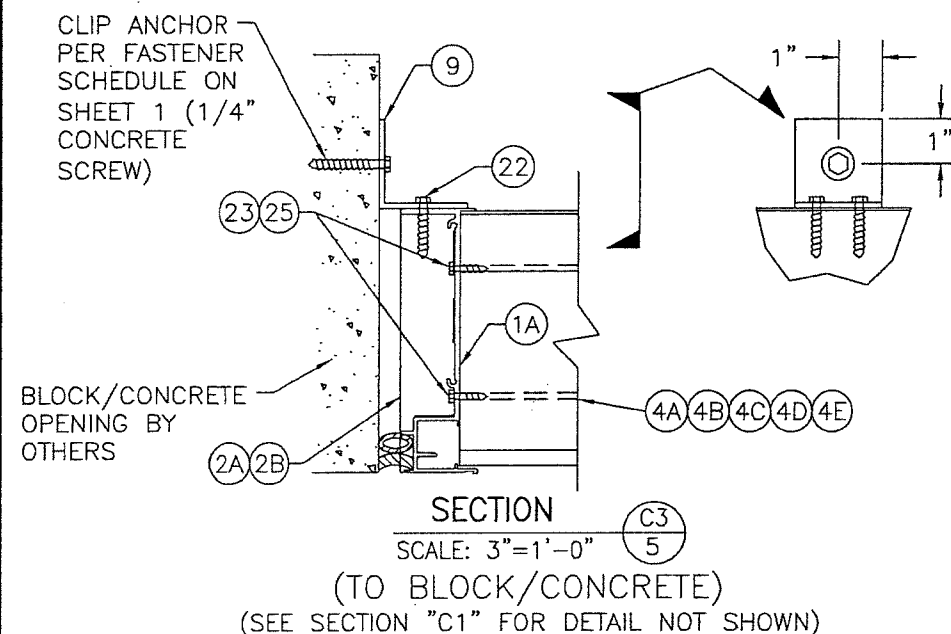
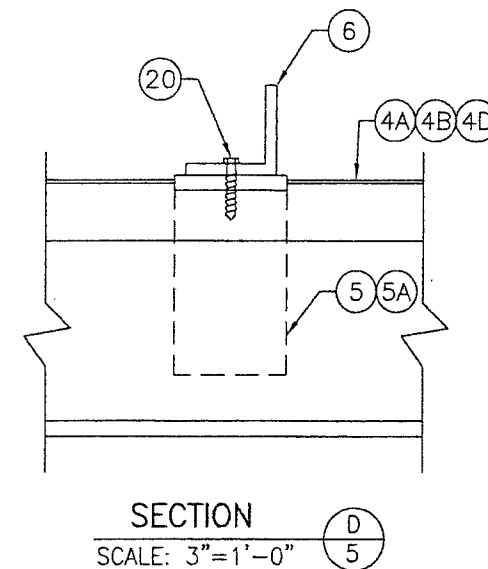
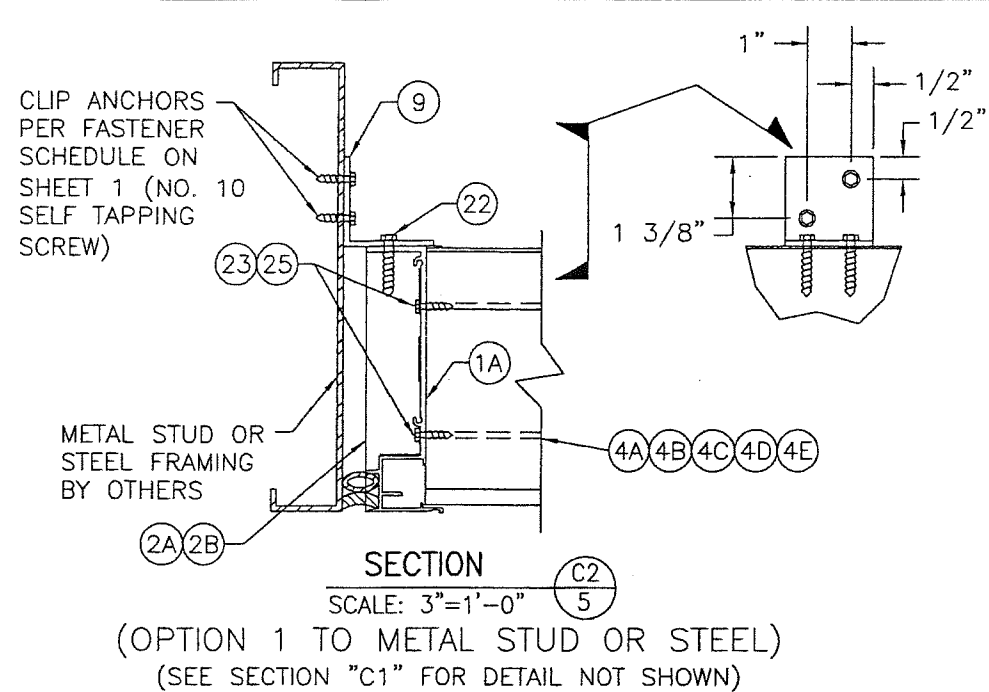
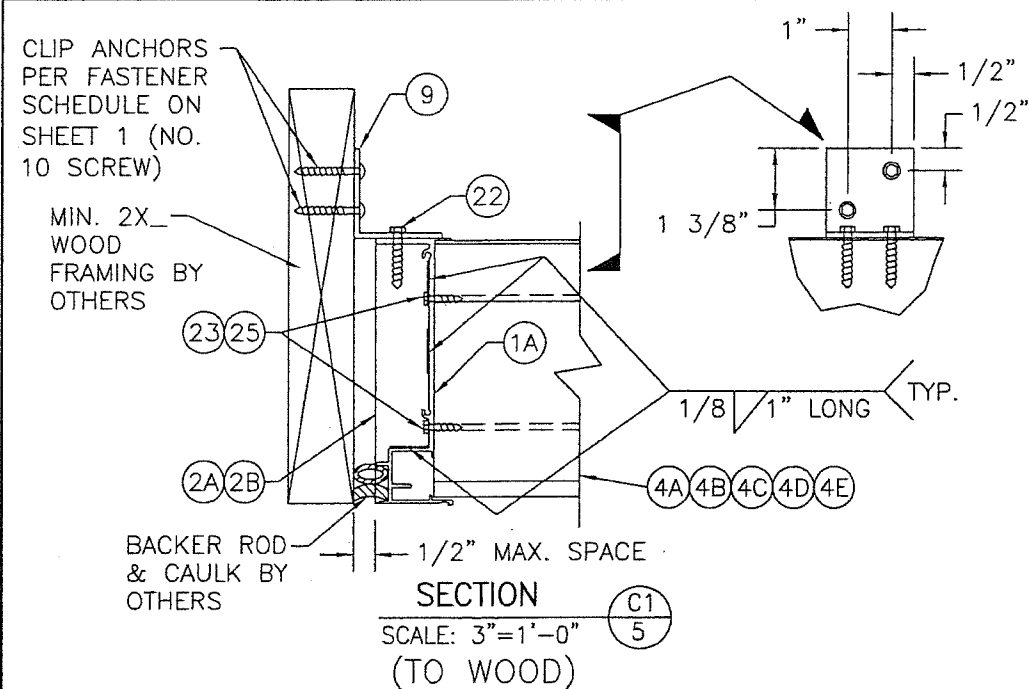
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as complying with the Florida
Building Code
NOA-No. 19-0306.03
Expiration Date 04/22/2024

By
Miami-Dade Product Control

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 04/03/03
DATE 08/22/05	BY W.W.S.
REVISION DESCRIPTION A3 REDUCED CLIP SPACING	
NO.	
MANUFACTURER AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DRAWING TITLE LE-32 LOUVER SYSTEM	CERTIFICATION NO. 4195 FEB 26 2019 WARREN W. SCHAEFER, P.E. P.E. NO. 41135 PROFESSIONAL ENGINEER
DRAWING NO. 1217	REV. D
SHEET NO. 3 OF 15	



DRAWN BY:	K.P.S.	CHECKED BY:	W.W.S.
PLOT:	1=4	DATE:	04/03/03
DATE		BY	
REVISION DESCRIPTION			
NO.			
LE-32 LOUVER SYSTEM MANUFACTURER AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
FEB 26 2019 W. W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.	1217	REV.	D
SHEET NO.	4	OF	15



ALTERNATE PANEL CLIP CONNECTIONS

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

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as complying with the Florida
Building Code
NOA-No. 20-0622.19

Expiration Date 04/22/2024

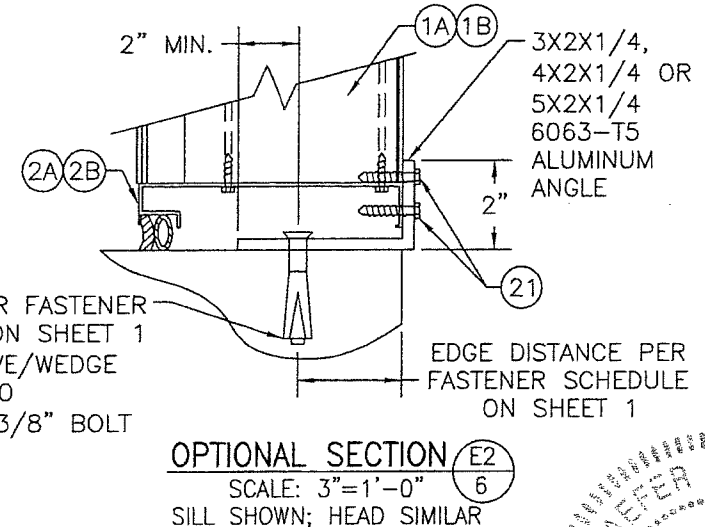
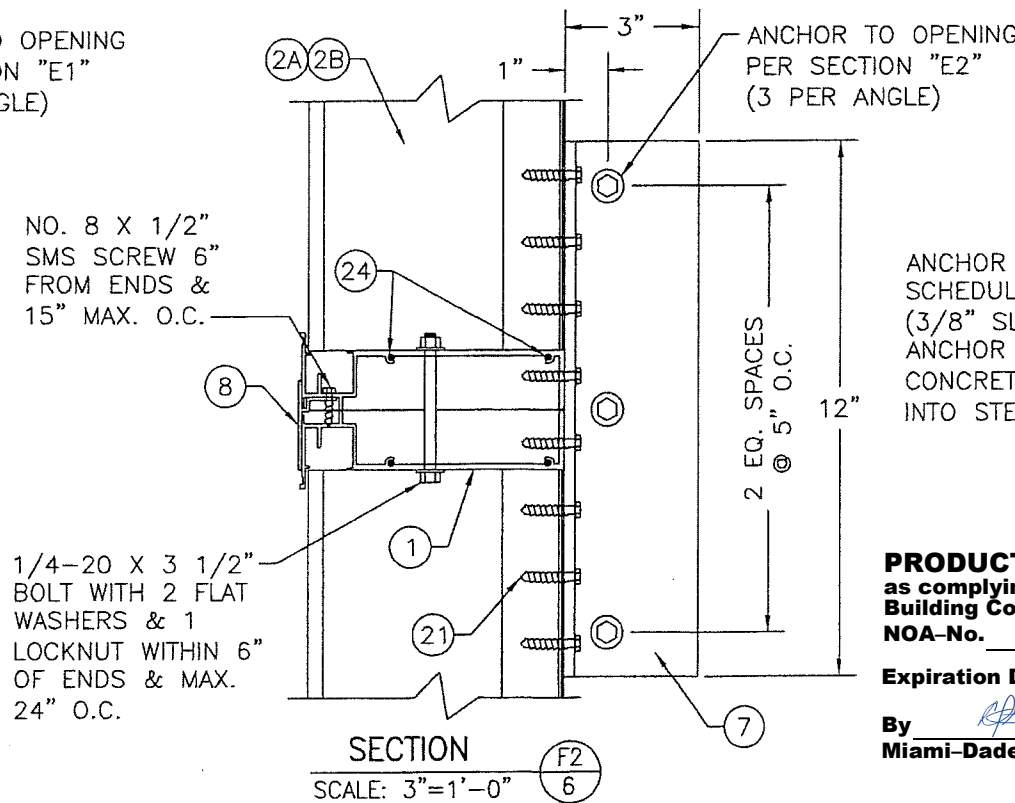
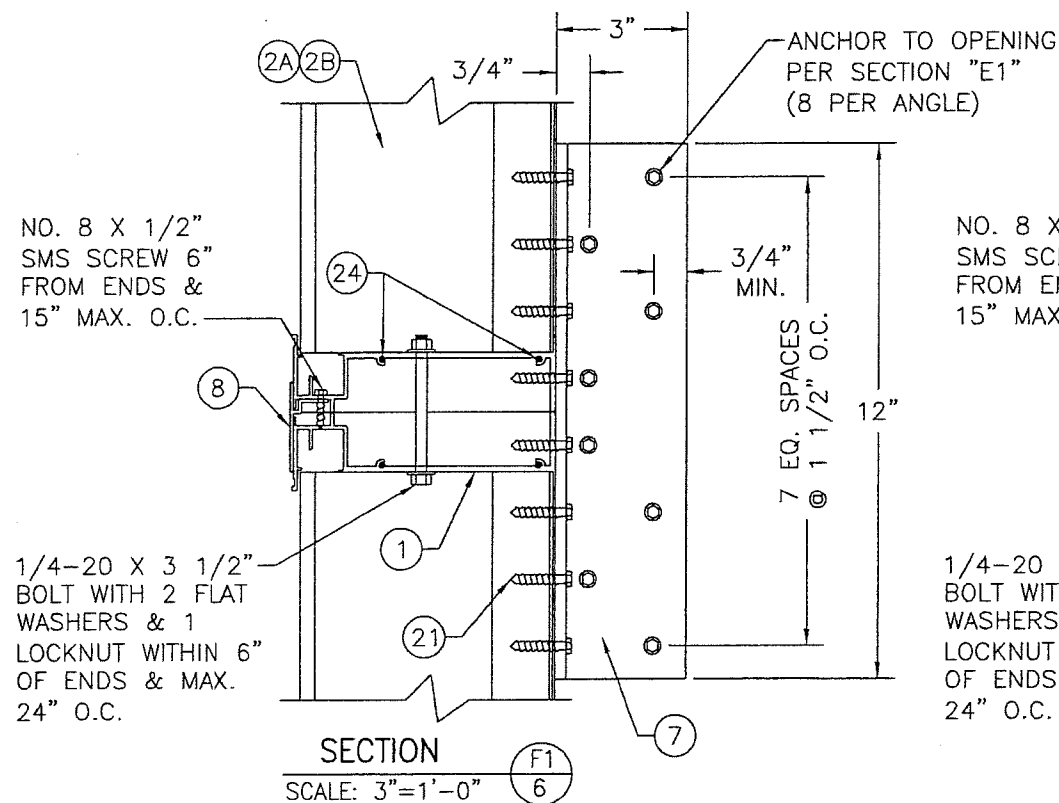
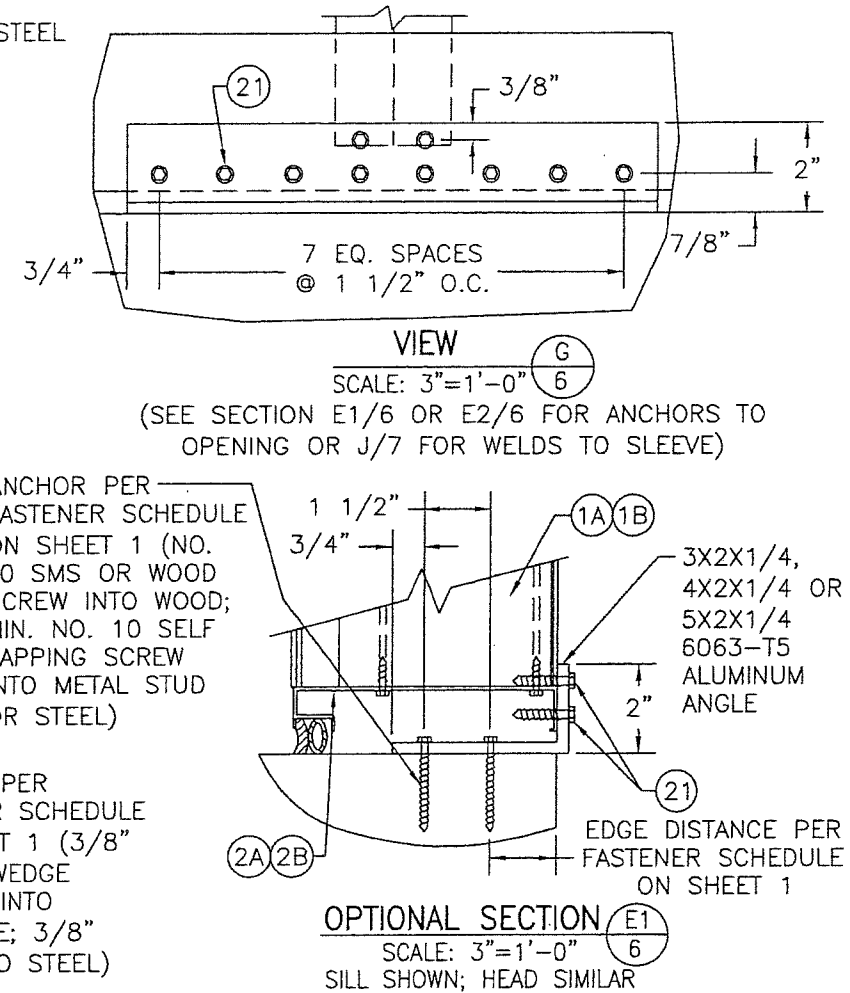
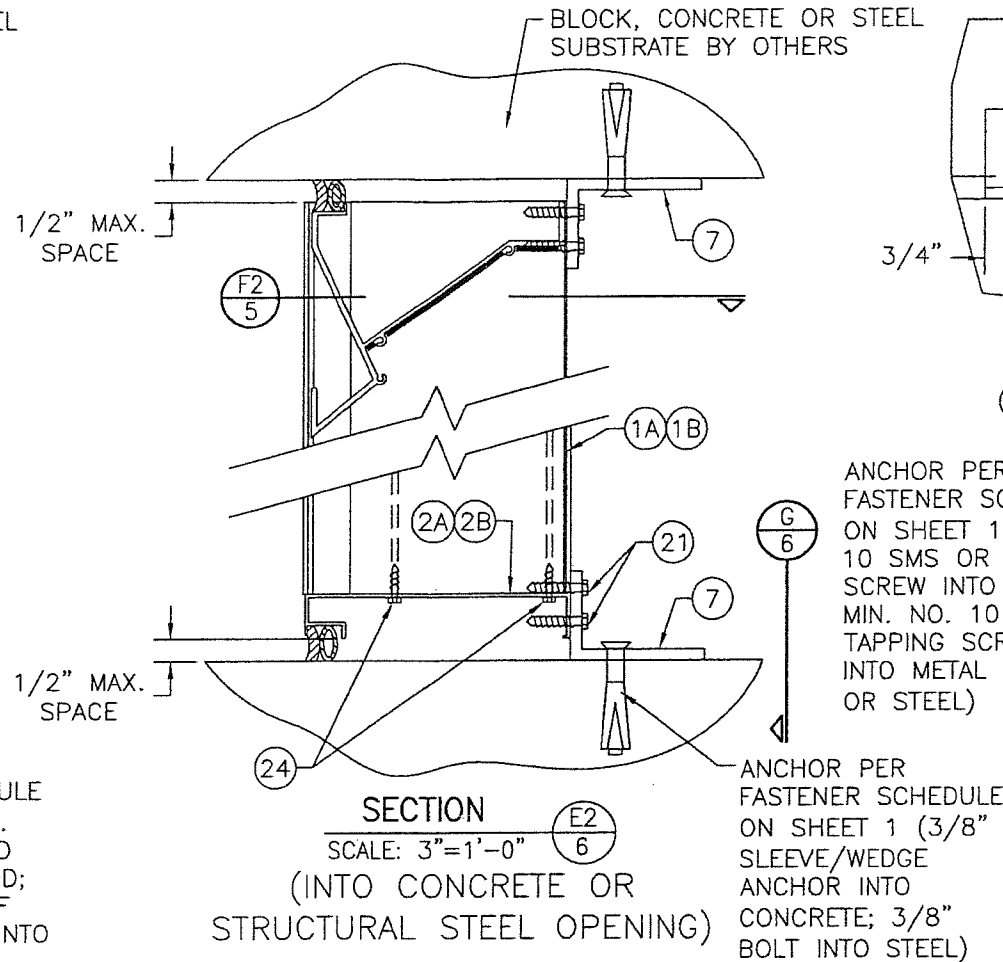
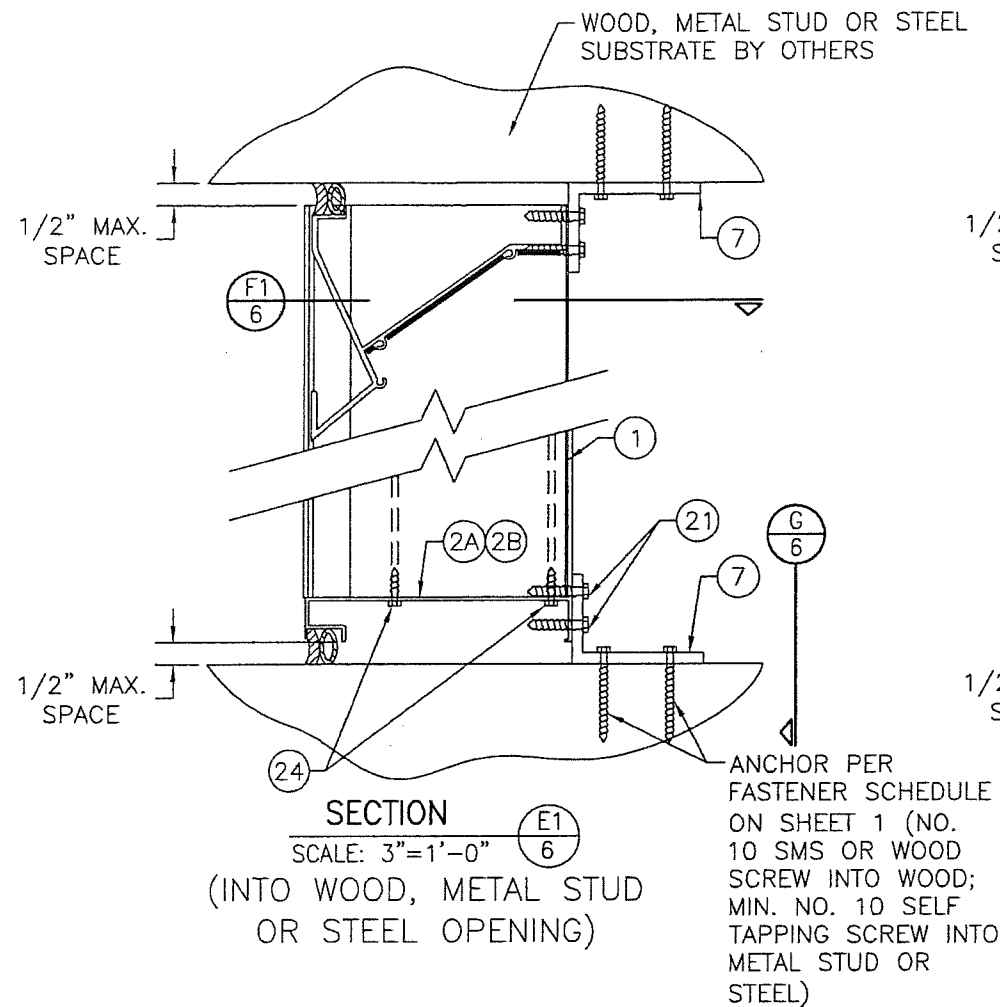
By 
Miami-Dade Product Control

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Building Code
NOA-No. **19-0306.03**

Expiration Date 04/22/2024

By *[Signature]*
Miami-Dade Product Control

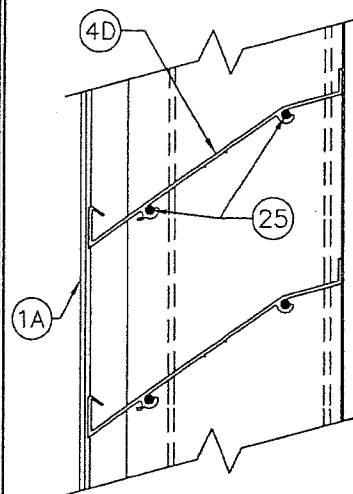
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as complying with the Florida
Building Code
NOA-No. 20-0622.19
Expiration Date 04/22/2024
By *[Signature]*
Miami-Dade Product Control

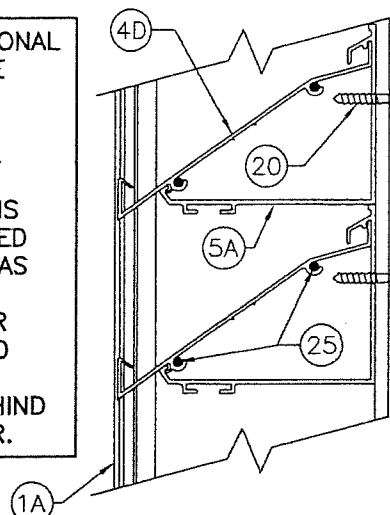
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 19-0306.03
Expiration Date 04/22/2024
By *[Signature]*
Miami-Dade Product Control

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 04/03/03	
NO.	REVISION	DESCRIPTION	DATE
MANUFACTURER AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000 CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
DRAWING TITLE LE-32 LOUVER SYSTEM			
CERTIFICATION STATE OF FLORIDA NO. 44135 FEB 26 2019 WARREN W. SCHAEFER, P.E. P.E. No. 44135			
DRAWING NO. 1217		REV. D	
SHEET NO. 6 OF 15			

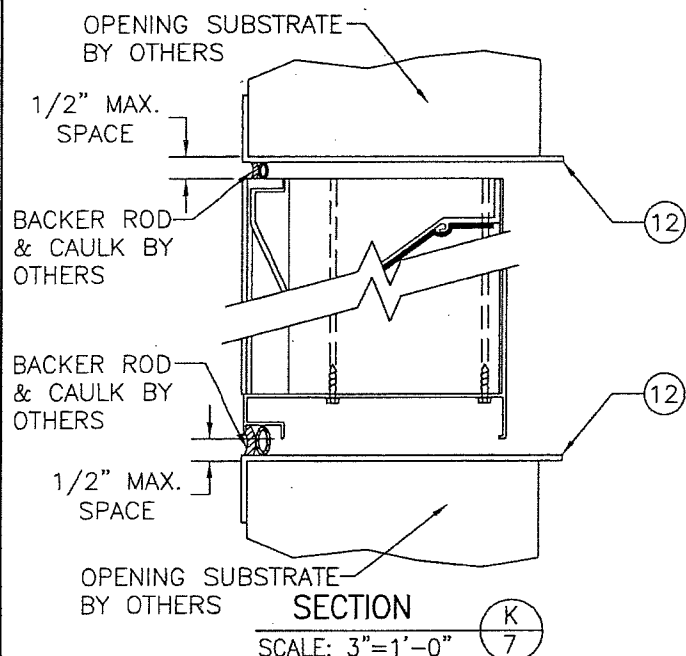


OPTIONAL BLADE DETAIL
WITH SCREWED END
CONSTRUCTION
(STANDARD LOUVER)

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.



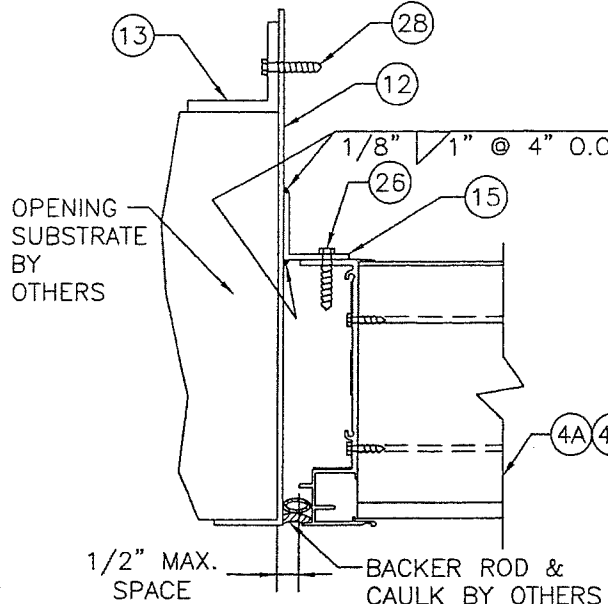
OPTIONAL BLADE
SUPPORT BRACKET
DETAIL WITH SCREWED
END CONSTRUCTION



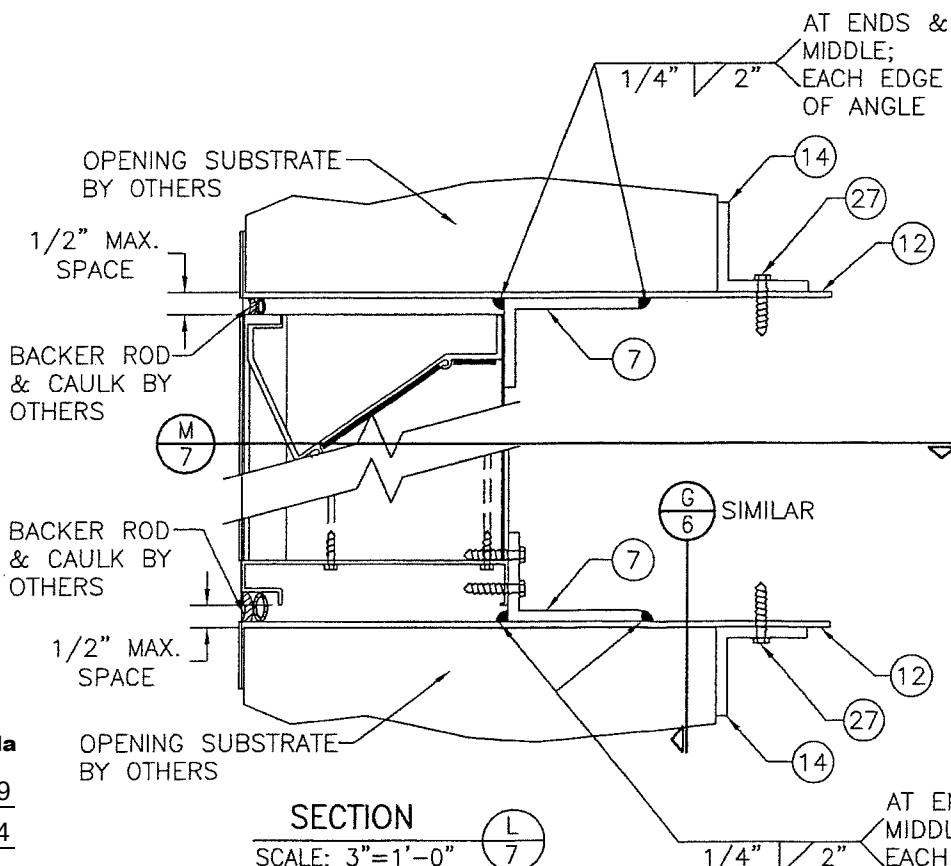
(SLEEVE MOUNT CONDITION)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION A1/4
OR A2/4)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0622.19
Expiration Date 04/22/2024

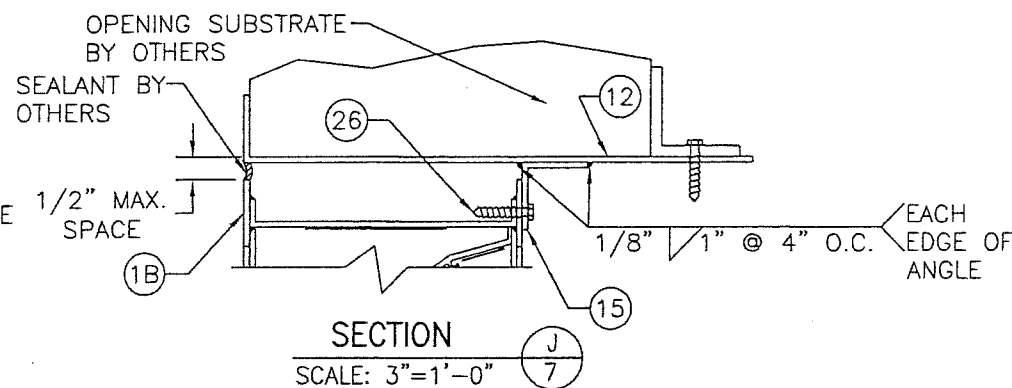
By *[Signature]*
Miami-Dade Product Control



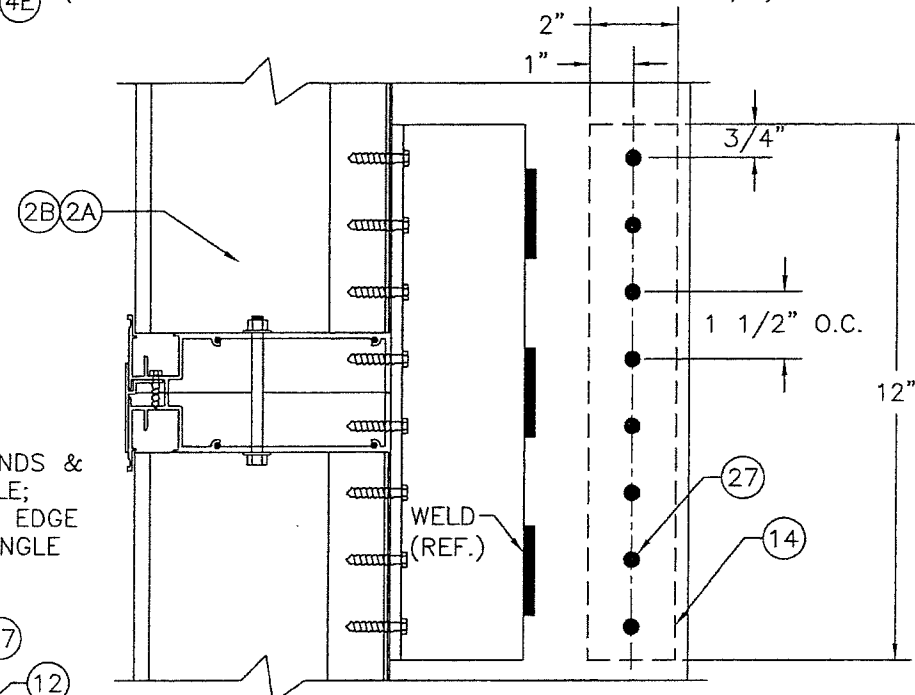
(SLEEVE MOUNT CONDITION)
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION C1/5)



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



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



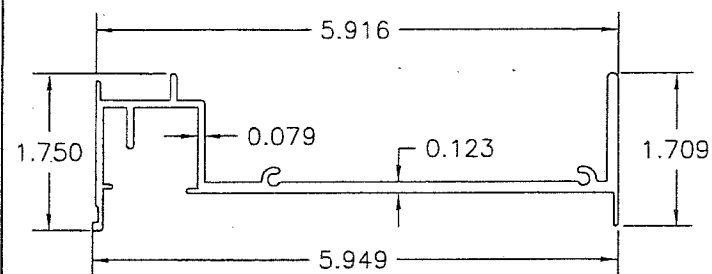
(FOR LOUVER DETAIL NOT SHOWN, SEE SECTION F1/6)

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

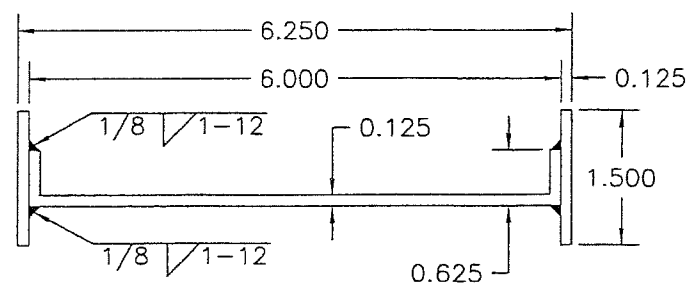
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 19-0306.03
Expiration Date 04/22/2024

By *[Signature]*
Miami-Dade Product Control

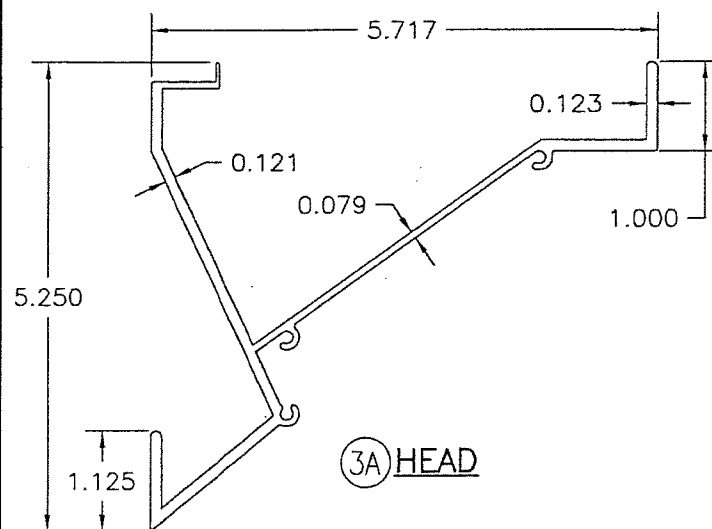
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLT: 1-4	DATE: 04/03/03
DATE	BY
REVISION DESCRIPTION	NO.
LE-32 LOUVER SYSTEM MANUFACTURER AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000 CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION STATE OF	NO. 44135 WARREN W. SCHAEFER, P.E. EXPIRATION DATE 04/22/2024
DRAWING NO. 1217	REV. D
SHEET NO. 7	OF 15



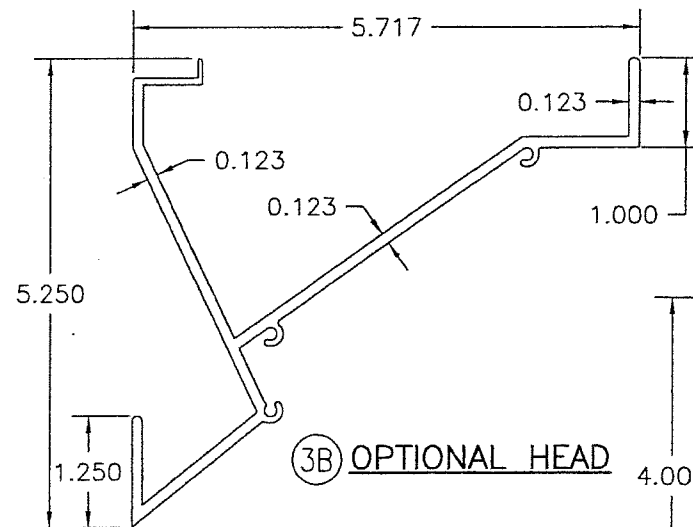
1A STANDARD
STRAIGHT JAMB



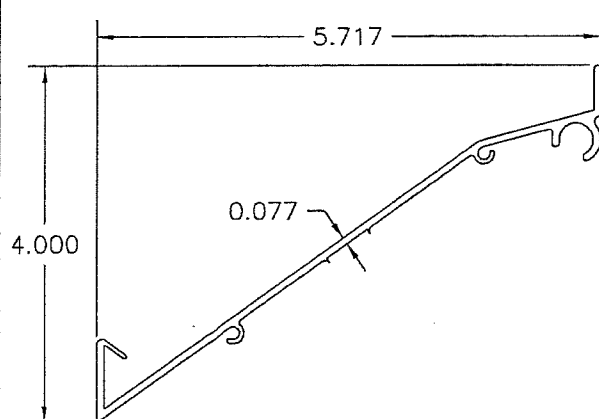
1B RADIUS JAMB



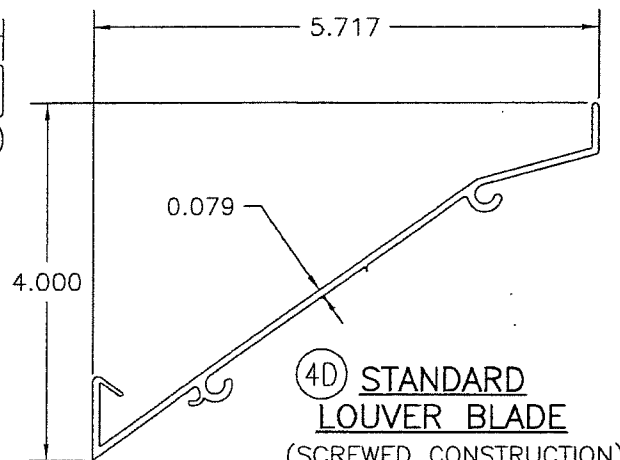
3A HEAD



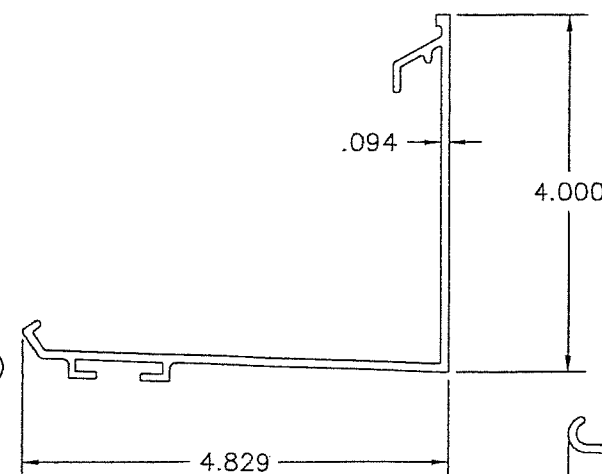
3B OPTIONAL HEAD



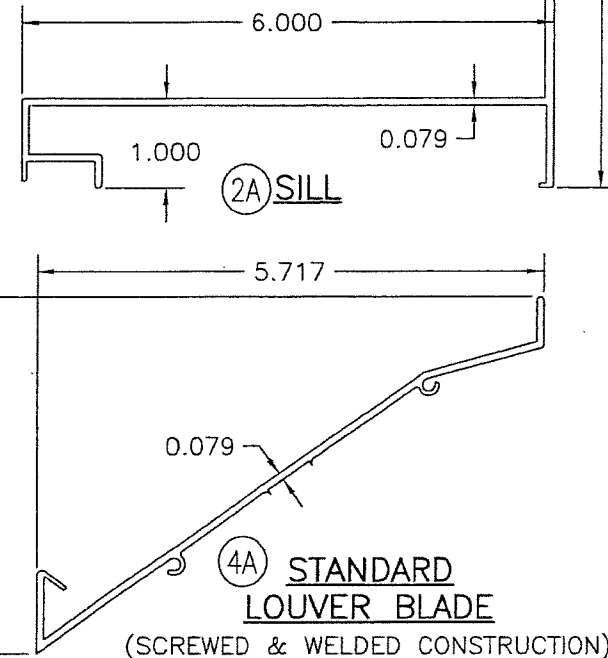
4C WATER RESISTANT
LOUVER BLADE
(SCREWED & WELDED CONSTRUCTION)



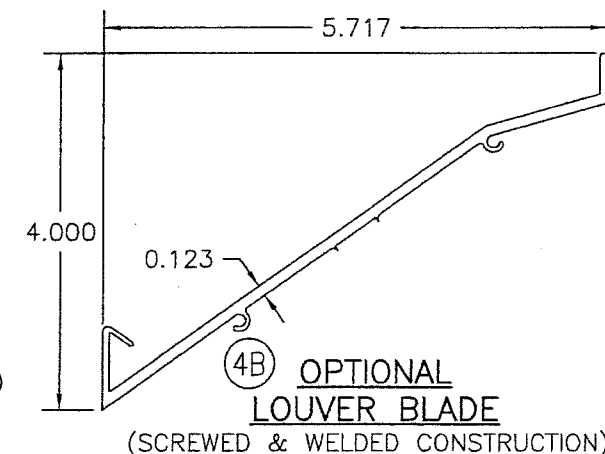
4D STANDARD
LOUVER BLADE
(SCREWED CONSTRUCTION)



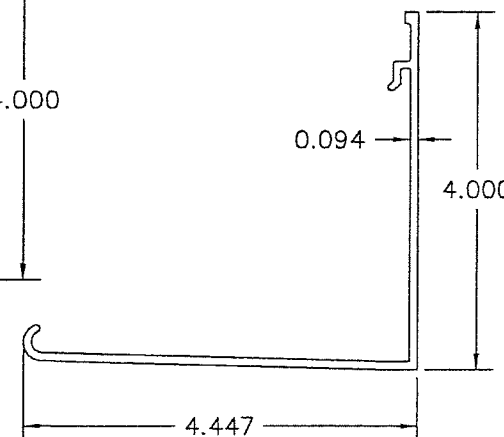
5A BLADE SUPPORT
BRACKET
(SCREWED CONSTRUCTION)



4A STANDARD
LOUVER BLADE
(SCREWED & WELDED CONSTRUCTION)



4B OPTIONAL
LOUVER BLADE
(SCREWED & WELDED CONSTRUCTION)



5 BLADE SUPPORT
BRACKET
(SCREWED & WELDED CONSTRUCTION)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0622.19
Expiration Date 04/22/2024

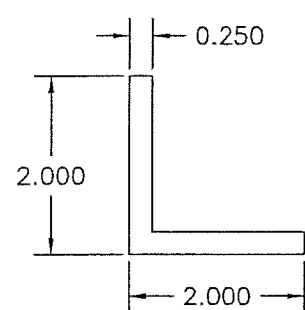
By *[Signature]*
Miami-Dade Product Control

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Building Code
NOA-No. 19-0306.03
Expiration Date 04/22/2024
By *[Signature]*
Miami-Dade Product Control

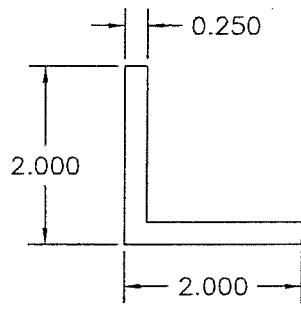
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PLOT: 1=2		DATE: 04/03/03	
NO.	DATE	BY	REVISION DESCRIPTION
DRAWING TITLE LE-32 LOUVER SYSTEM			
MANUFACTURER AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION FEB 26 2019 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1217		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

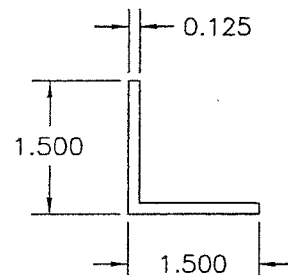
(1) PARTS 4C & 10 SHALL BE USED IN PLACE OF PART 4A OR 4B WHEN LOUVER IS REQUIRED TO RESIST WATER PENETRATION.



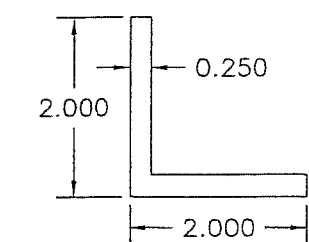
⑬ CONTINUOUS MOUNTING ANGLE



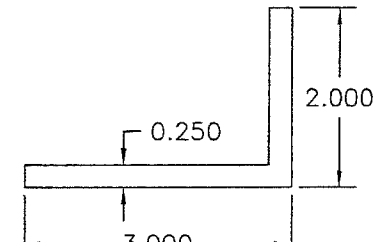
⑭ MULLION END SUPPORT ANGLE
LENGTH = 12"



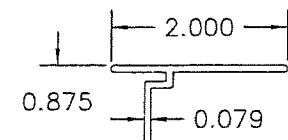
⑮ CONTINUOUS MOUNTING ANGLE



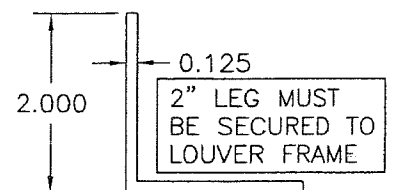
⑥ BLADE SUPPORT ANGLE
LENGTH = LOUVER HEIGHT



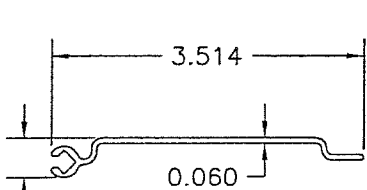
⑦ MULLION SUPPORT ANGLE
LENGTH = 12"



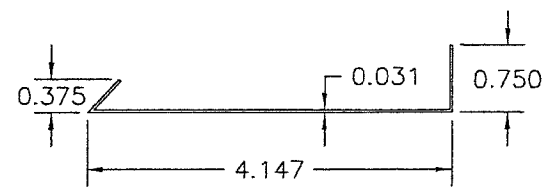
⑧ MULLION COVER



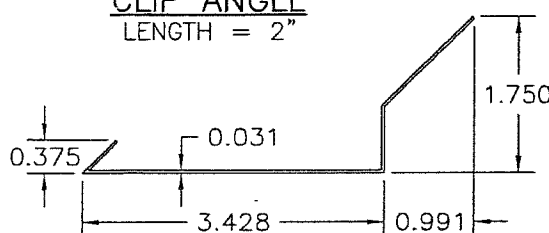
⑨ SIDE JAMB CLIP ANGLE
LENGTH = 2"



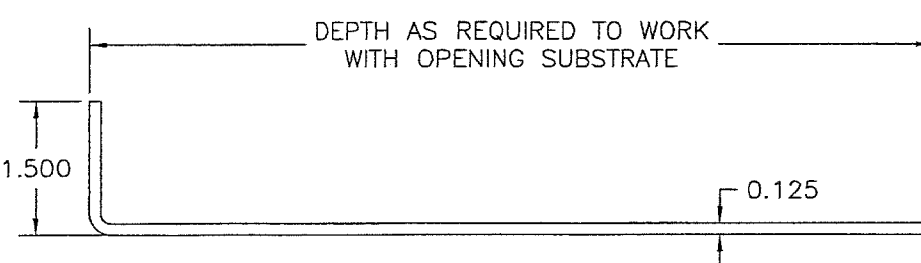
⑩ DAMPER BLADE



⑪A STANDARD SILL PAN



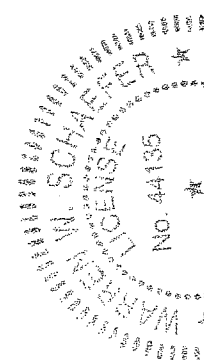
⑪B OPTIONAL SILL PAN



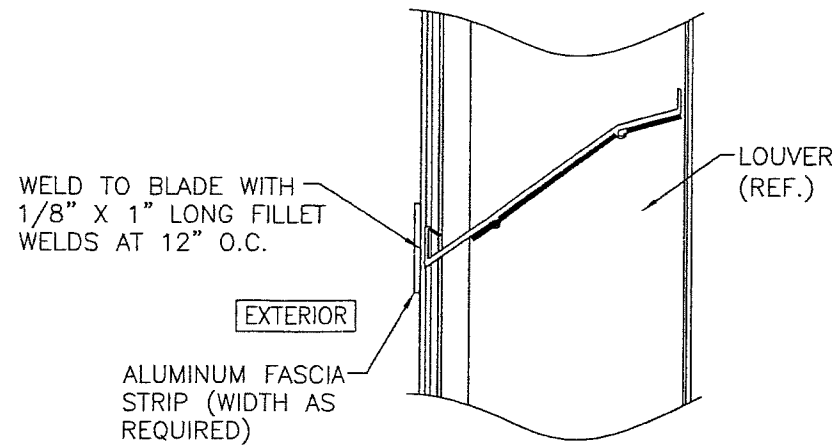
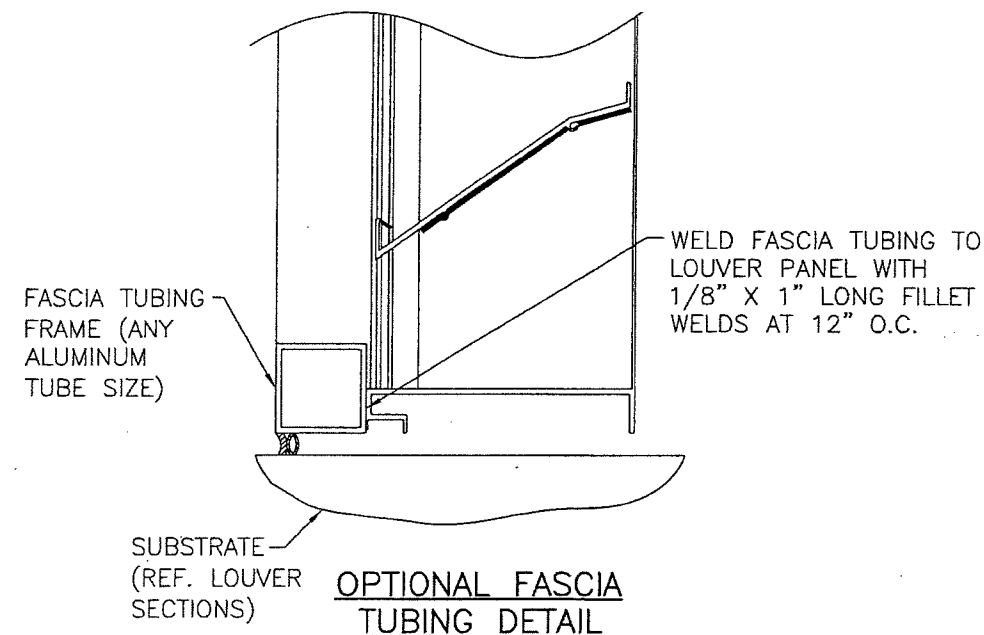
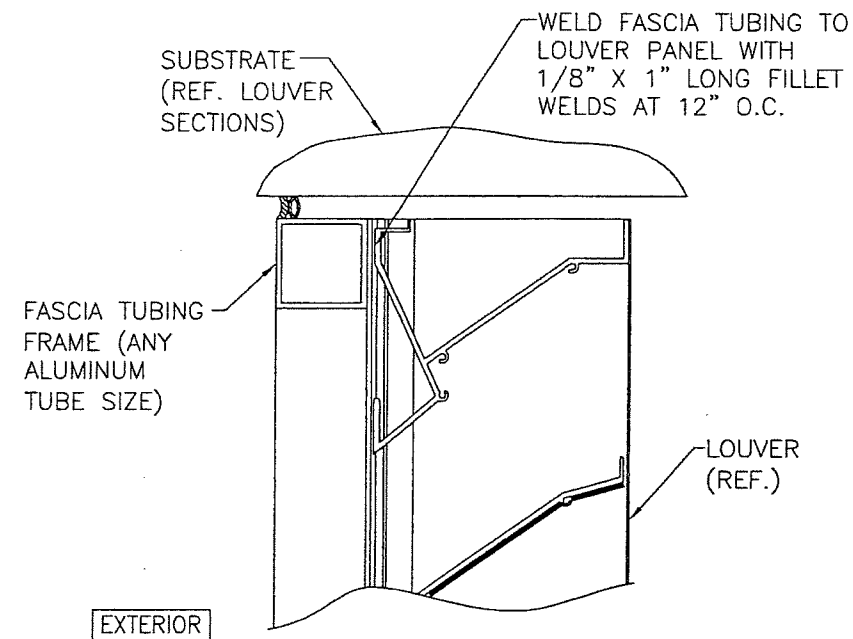
⑫ MOUNTING SLEEVE
(CONTINUOUS AT ALL SIDES; WELDED AT CORNERS)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0622.19
Expiration Date 04/22/2024
By *[Signature]*
Miami-Dade Product Control

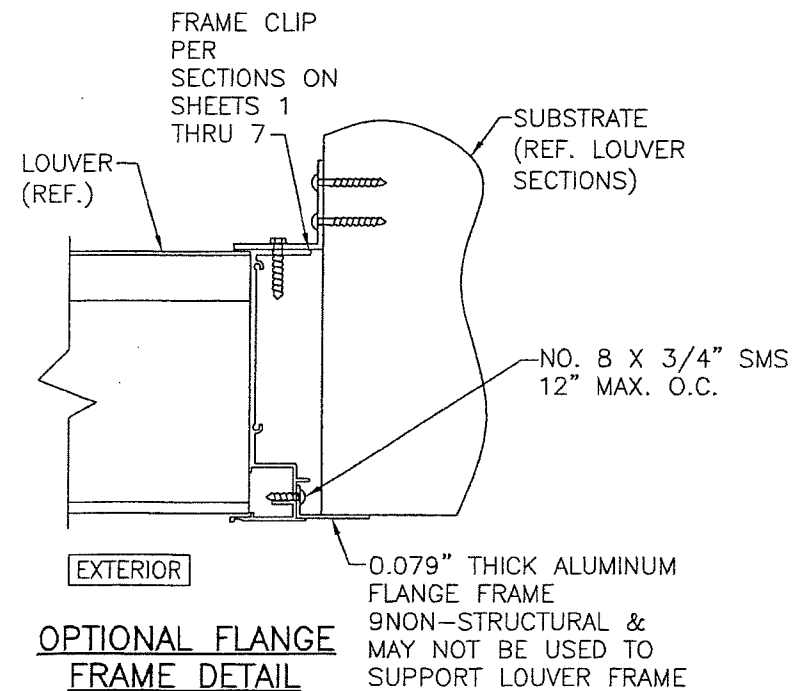
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 19-0306.03
Expiration Date 04/22/2024
By *[Signature]*
Miami-Dade Product Control



DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/03/03	
DATE	BY	REVISION DESCRIPTION	NO.
LE-32 LOUVER SYSTEM MANUFACTURER: AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING TITLE		CERTIFICATION	
FEB 26 2019		FEB 26 2019	
DRAWING NO. 1217		REV. D	
SHEET NO. 9		OF 15	



OPTIONAL FASCIA
STRIP DETAIL



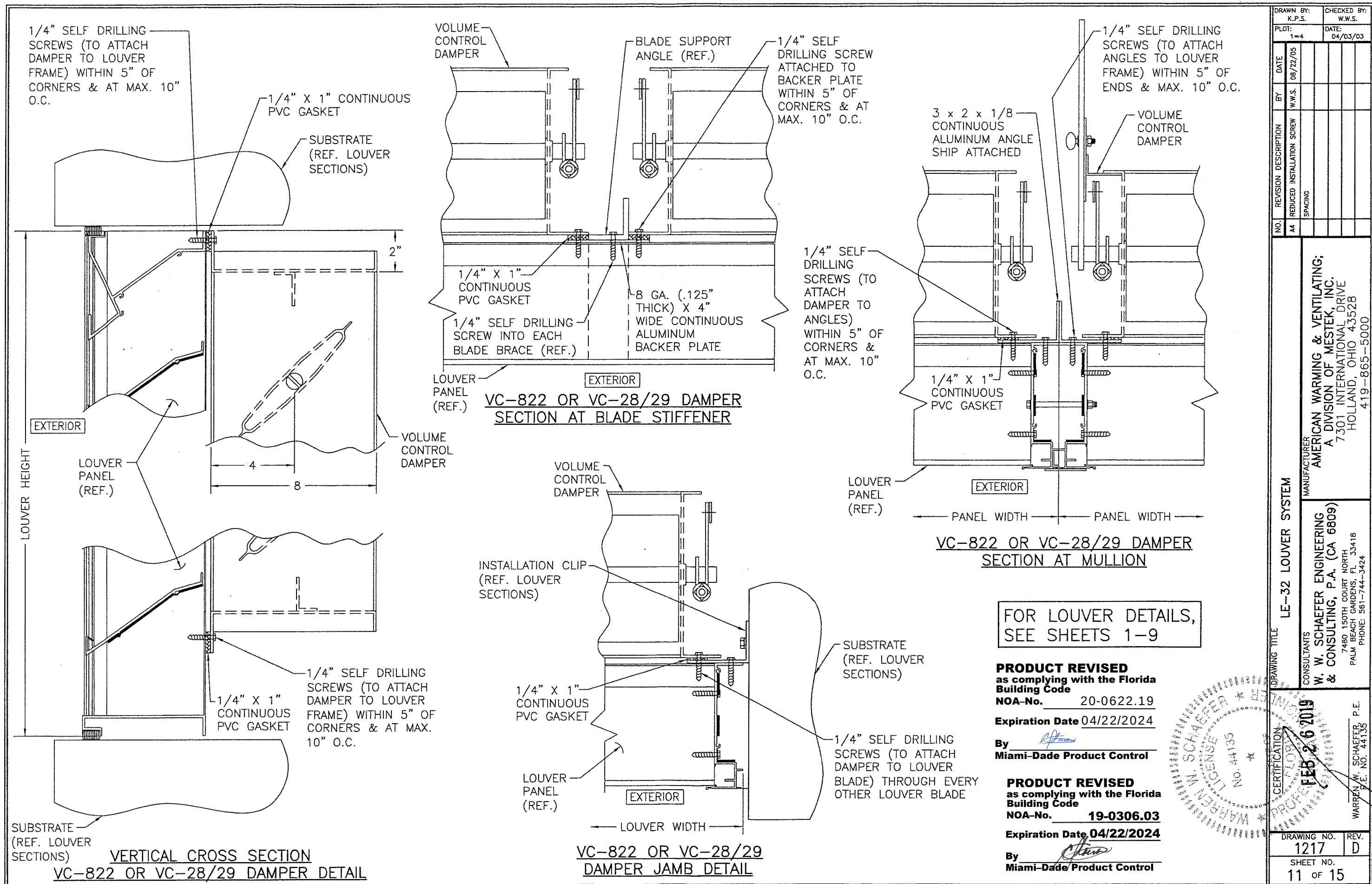
OPTIONAL FLANGE
FRAME DETAIL

FOR LOUVER DETAILS,
SEE SHEETS 1-9

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0622.19
Expiration Date 04/22/2024
By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 19-0306.03
Expiration Date 04/22/2024
By *[Signature]*
Miami-Dade Product Control

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 04/03/03	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: LE-32 LOUVER SYSTEM MANUFACTURER: AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 CERTIFICATION: <i>[Signature]</i> FEB 26 2019 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.	REV.	SHEET NO.	
1217	D	10 OF 15	



DRAWN BY: K.P.S.		CHECKED BY: W.W.S.		
PLOT: 1=4		DATE: 04/03/03		
NO.	REVISION	DESCRIPTION	BY	DATE
	A4	REDUCED INSTALLATION SCREW	W.W.S.	08/22/05
		SPACING		
DRAWING TITLE LE-32 LOUVER SYSTEM				
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000		
CERTIFICATION FEB 26 2019 APPROVED FOR CONSTRUCTION WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
DRAWING NO. 1217		REV. D		
SHEET NO. 11 OF 15				

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

4"

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
NOA-No. 20-0622.19

Expiration Date 04/22/2024

By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 19-0306.03

Expiration Date 04/22/2024

By *[Signature]*
Miami-Dade Product Control

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 04/03/03	
NO.	REVISION DESCRIPTION	DATE	BY
A4	REDUCED INSTALLATION SCREW SPACING	08/22/05	W.W.S.
DRAWING TITLE LE-32 LOUVER SYSTEM MANUFACTURER AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000 CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 CERTIFICATION <i>[Stamp]</i> FEB 26 2019 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1217		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.)

EXTERIOR

LOUVER WIDTH

DUCT TRANSITION
SLEEVE JAMB DETAIL

FOR LOUVER DETAILS,
SEE SHEETS 1-9

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 20-0622.19

Expiration Date 04/22/2024

By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 19-0306.03

Expiration Date 04/22/2024

By *[Signature]*
Miami-Dade Product Control

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 04/03/03	
DATE	BY	W.S.	SPACING
08/22/05			
REVISION	DESCRIPTION	NO.	DATE
A4	REDUCED INSTALLATION SCREW		
LE-32 LOUVER SYSTEM MANUFACTURER AMERICAN WARMING & VENTILATING; A DIVISION OF MESTEK, INC. 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000 CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION W. W. SCHAEFER P.E. NO. 44135 RECEIVED FEB 26 2019			
DRAWING NO.		REV.	
1217		D	
SHEET NO. 13 OF 15			

EXTERIOR

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

DUCT TRANSITION
SLEEVE FOR
CONNECTION OF
DUCTS TO
LOUVER FRAME

2 x 2 x 1/4
MULLION ANGLE

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
SCREW ATTACHED TO
BACKER PLATE WITHIN
5" OF CORNERS &
AT MAX. 10" O.C.

LOUVER
PANEL
(REF.)

EXTERIOR

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.

LOUVER HEIGHT

[illegible]

