



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION
 NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING
 140 WEST FLAGLER STREET, SUITE 1603
 MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339
www.miamidade.gov/buildingcode**

**American Warming and Ventilating
 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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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" deep Aluminum Louver

APPROVAL DOCUMENT: Drawing No. 1217, titled "LE-32 Louver System", dated 04/03/03, 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 Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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

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

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

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

This NOA **renews and revises** NOA # 05-0328.01 and consists of this page 1 and evidence page E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



Handwritten signature and date: 1/22/09

**NOA No. 08-1224.02
 Expiration Date: April 22, 2014
 Approval Date: February 11, 2009
 Page 1**

American Warming and Ventilating

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **1217**, titled "LE-32 Louver System", dated 04/03/03, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

<u>1.</u>	<u>Test Report</u>	<u>Test Standard</u>	<u>Test Date</u>	<u>Test Witness</u>
	HTL 0198-0508-03	TAS 201,202 & 203	05/15-10/03	V.J. Abraham PE
	HTL.0198-0618-03	TAS 201, 202 & 203	06/06-25/03	V.J. Abraham PE
	HTL 0198-0804-03	TAS 201, 202 & 203	08/06-08/03	V.J. Abraham PE
	HTL 0198-0508-03	TAS 201, 202 & 203	05/08-13/03	V.J. Abraham PE
	HTL 0198-0804-03	TAS 201, 202 & 203	08/08-11/03	V.J. Abraham PE
	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-26/03	V.J. Abraham PE
	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-04/16	V.J. Abraham PE
	HTL 0198-0324-03	TAS 201, 202 & 203	03/24-24/03	V.J. Abraham PE
	HTL 0198-0324-03	TAS 201, 202 & 203	03/25-04/21	V.J. Abraham PE
	HTL 0198-0128-03	TAS 201, 202 & 203	02/10-04/21	V.J. Abraham PE
	HTL 0198-0508-03	TAS 202	05/13-13/03	V.J. Abraham PE
	HTL 0198-0324-03	TAS 202	03/27-27/03	V.J. Abraham PE
	HTL 0198-0324-03	TAS 201 & 203	03/24-04/21	V.J. Abraham PE
	AT 01-45720.01	TAS100 (A)-95	06/16/03	J.A. Reed PE

"Submitted under NOA # 05-0328.01"

2. 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 04/28/08, signed and sealed by Duc T. Nguyen, P.E.

C. CALCULATIONS

1. Anchoring calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/24/08, signed and sealed by Warren W. Schaefer, P.E.
"Submitted under NOA # 05-0328.01"
2. Anchoring calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 12/17/08, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-1224.02

Expiration Date: April 22, 2014
Approval Date: February 11, 2009

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E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Test compliance letter issued by Hurricane Test Laboratory on 09/09/03, signed and sealed by V.J. Abraham, PE.
“Submitted under NOA # 05-0328.01”
2. Code compliance letter issued by W. W. Schaefer Engineering & Consulting, P.A., dated 12/16/08, signed and sealed by Warren W. Schaefer, P.E.
3. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A., dated 12/16/08, signed and sealed by Warren W. Schaefer, P.E.

G. OTHER

1. Notice of Acceptance No. **05-0328.01**, issued to American Warming and Ventilating for their Model LE-32 6” deep Aluminum Louver, approved on 12/08/05 and expiring on 04/22/09.



1/22/09

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-1224.02

Expiration Date: April 22, 2014
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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 1/4"	2"
(2) 1/4" BOLT	STEEL OR METAL STUD	FULL	3/4"
(4) 3/8" SLEEVE ANCHOR	CONCRETE	2 1/2"	2"
(2) 3/8" BOLT	STEEL	FULL	3/4"

- CONCRETE SCREWS SHALL BE ELCO TAPCONS OR HILTI KWIK-CON II. (HARDENED STEEL OR S.S. PER AISI 1021 & 410)
- BOLT SHALL BE MIN. A307 GALVANIZED OR 304 S.S. (Fv = 10,000 PSI MIN.)
- WOOD SCREWS SHALL HAVE MIN. YIELD STRENGTH OF Fyb = 80,000 PSI
- SLEEVE ANCHORS MAY BE GALVANIZED OR S.S. RAMSET RED HEAD DYNABOLTS OR POWERS RAWL POWER BOLT.
- SEE GENERAL NOTES FOR SUBSTRATE REQUIREMENTS.
- SELF TAPPING SCREWS SHALL BE CORROSION RESISTANT MIN. SAE GRADE 2 STEEL OR MIN. ALLOY GROUP 1, 2 & 3 CONDITION "A" STAINLESS STEEL.

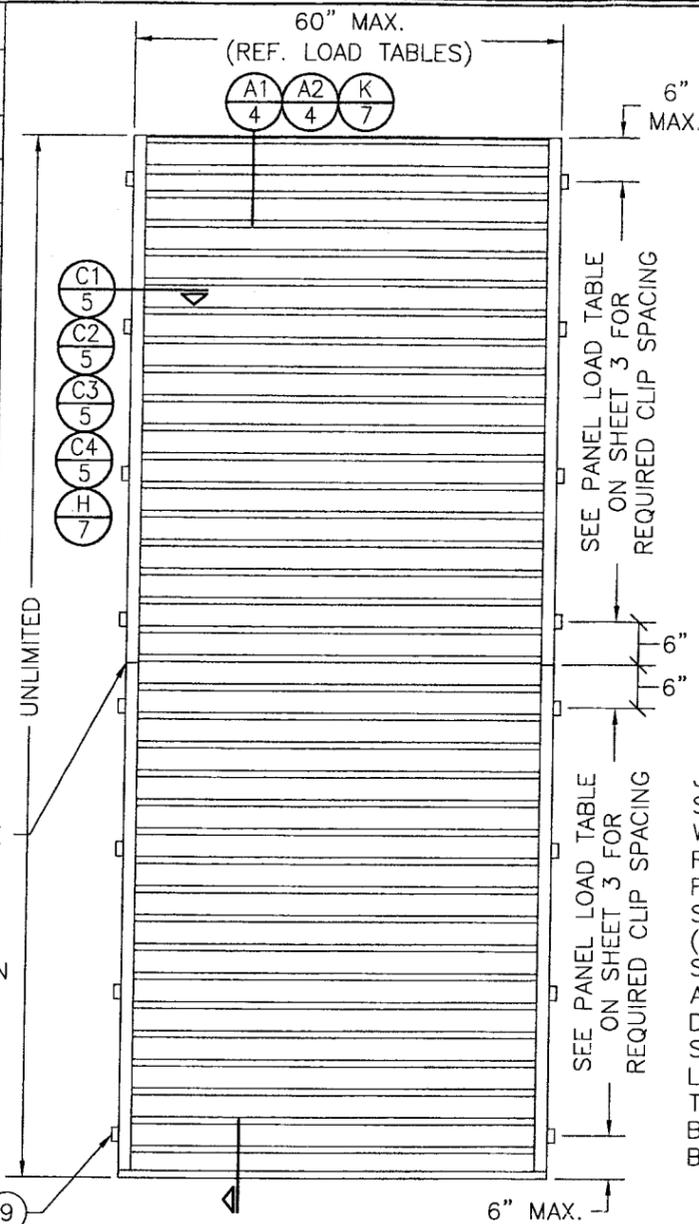
CORNER & BLADE END CONSTRUCTION

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

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

GENERAL NOTES:

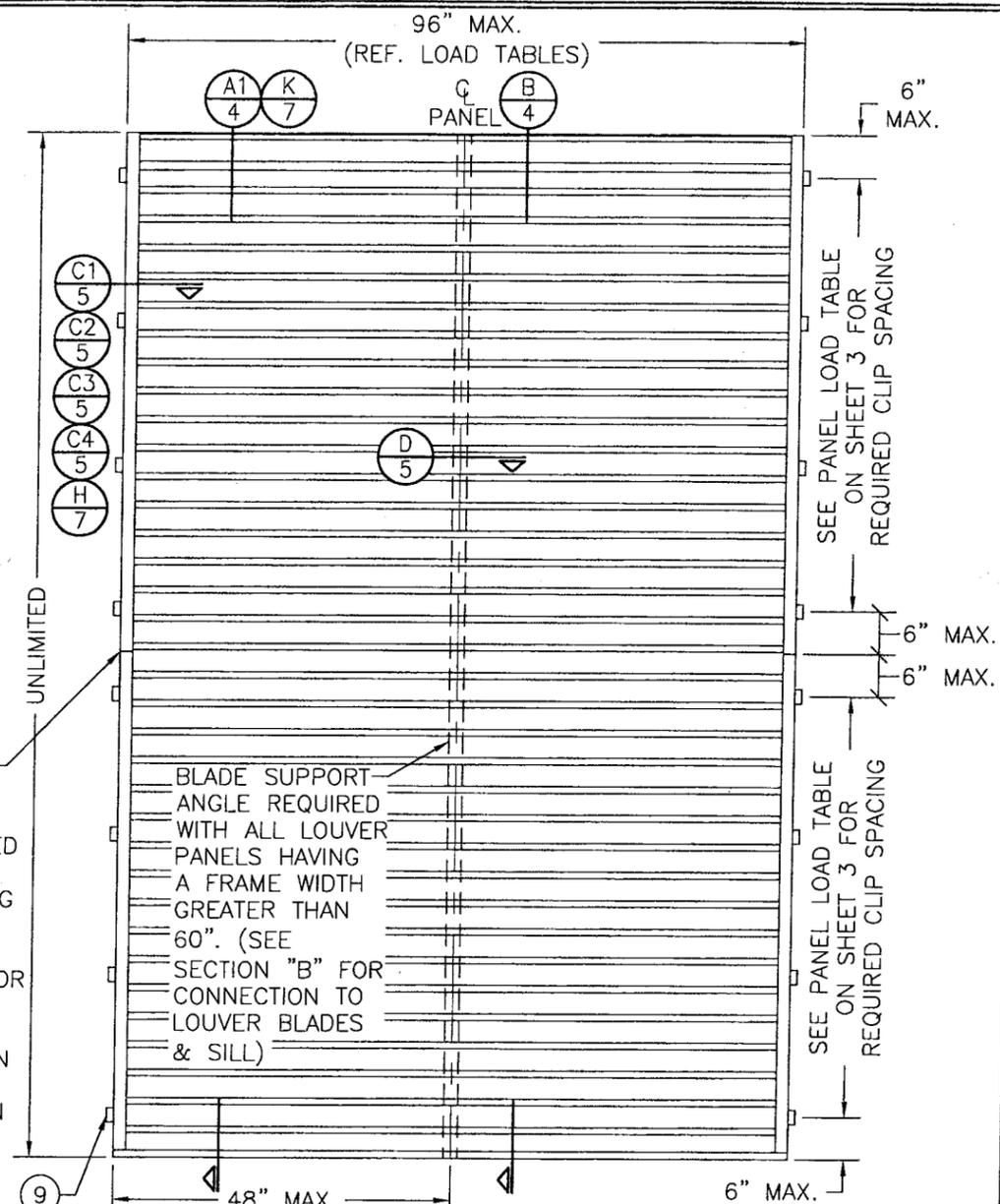
- IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS SUPERIMPOSED BY THE LOUVERS.
- THESE LOUVER SYSTEMS HAVE BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) AND PROTOCOLS TAS-100, 201, 202 & 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. 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).
- SEPARATION OF DISSIMILAR MATERIALS MUST BE MAINTAINED PER ALL APPLICABLE CODES & SECTION 2003.8.4 OF FBC 2004.
- 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.



**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



**EXTERIOR ELEVATION
SINGLE LOUVER PANEL WITH
BLADE SUPPORT ANGLE**

NOTE: LOUVER PANELS MAY BE STACKED/SPLICED VERTICALLY OR THE LOUVER PANEL MAY RUN VERTICALLY TO INFINITE HEIGHT PROVIDING OPENING IS PROPERLY DESIGNED BY OTHERS TO SUPPORT THE LOUVER PANELS. BLADE SUPPORT ANGLE IS CONTINUOUS FROM HEAD TO SILL AND SPLICING OF THIS ANGLE IS NOT PART OF THIS APPROVAL.

ALLOWABLE PRESSURES

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

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No 08-1224.02
 Expiration Date 04/22/2014
 By *[Signature]*
 Miami Dade Product Control Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 04/03/03	
NO.	REVISION DESCRIPTION	DATE	BY
A1	ADDED BLADE SCREWED	03/23/05	S.T.R.
A2	CONSTRUCTION OPTION UPDATE TO 2004 CODE COMPLIANT	09/22/05	W.W.S.

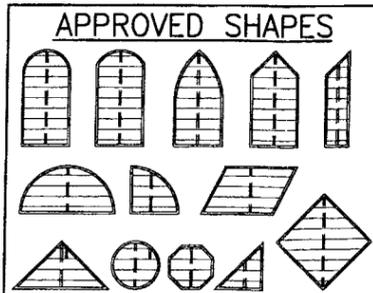
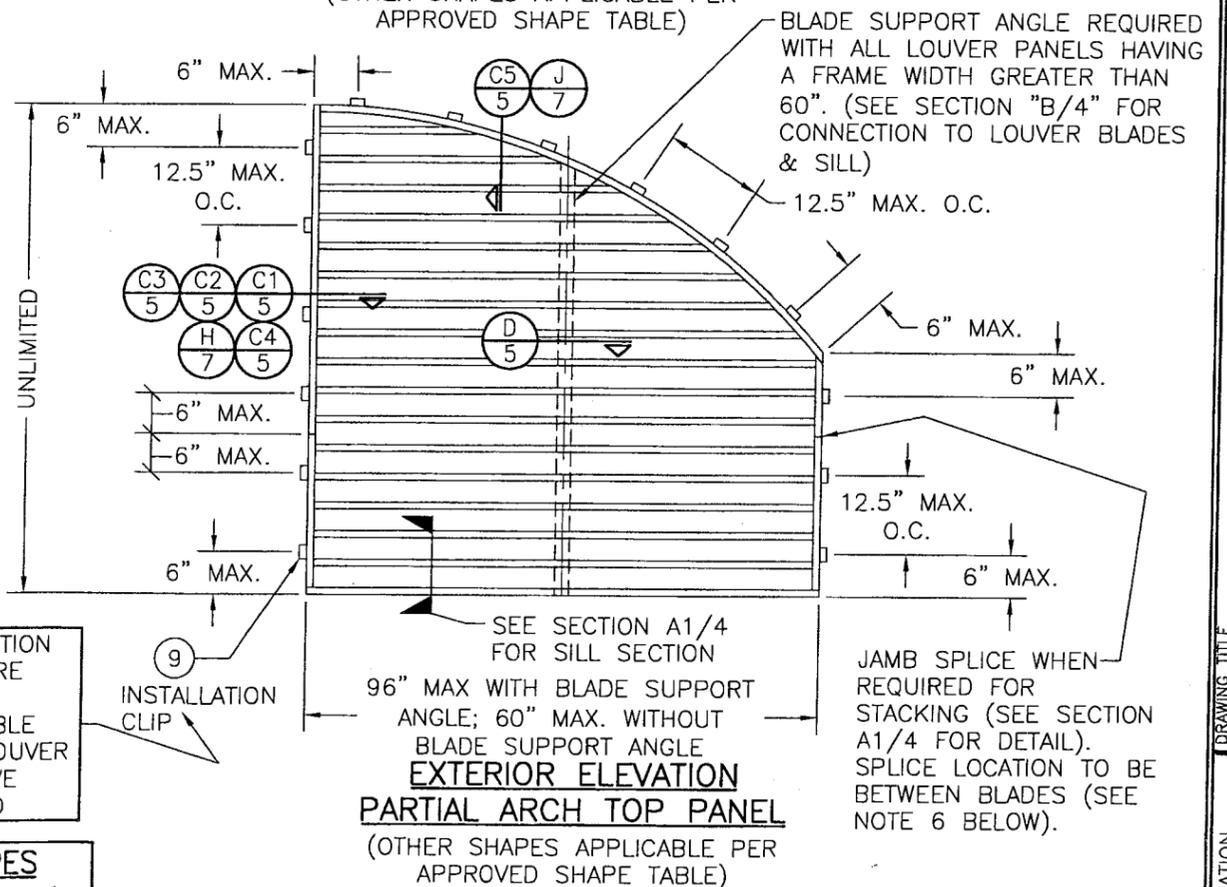
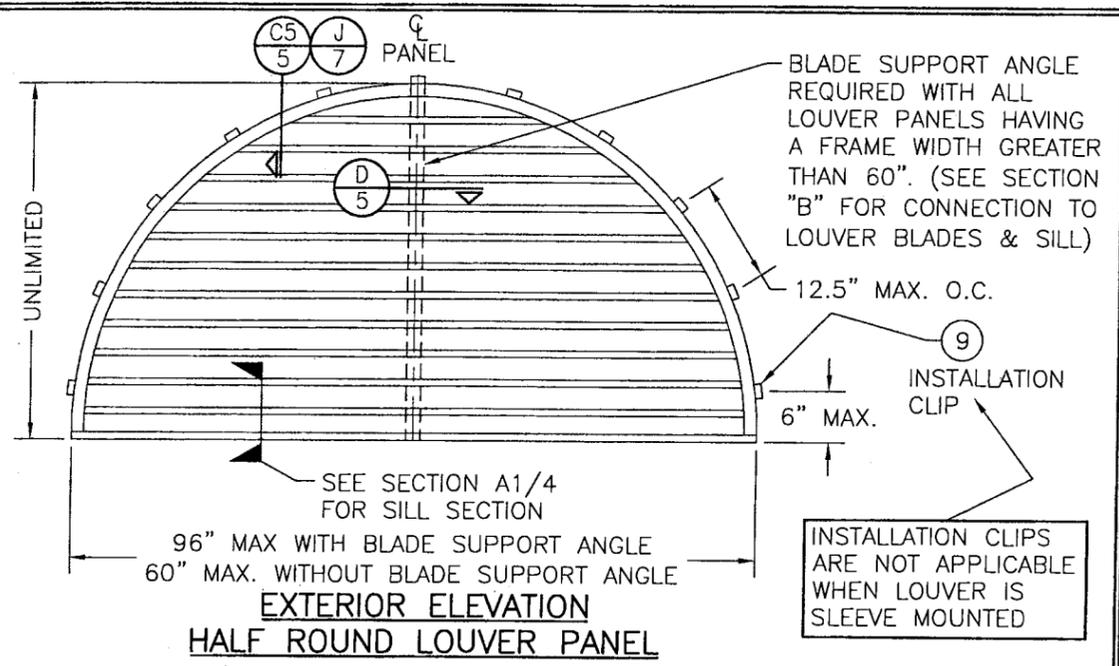
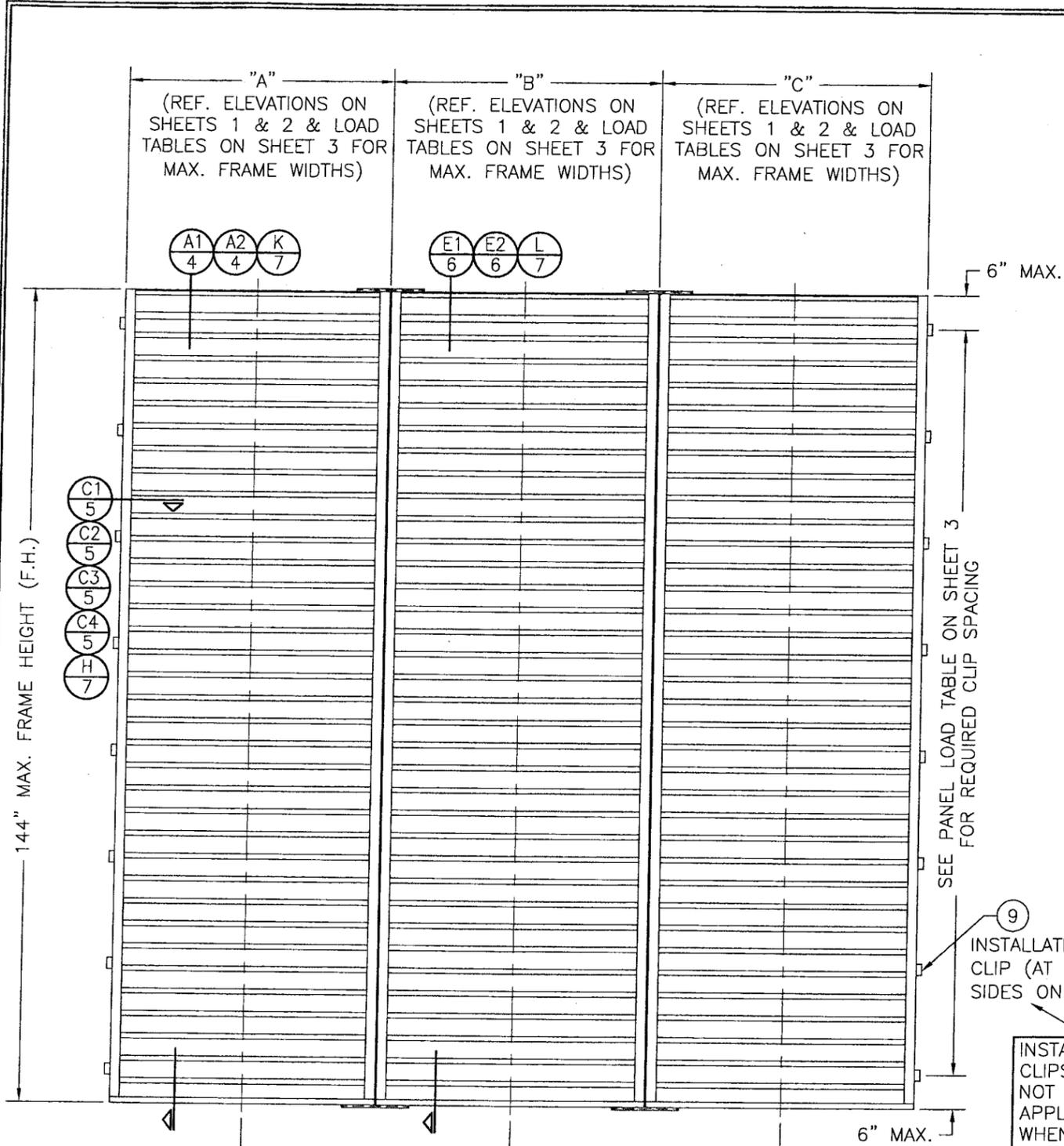
DRAWING TITLE
LE-32 LOUVER SYSTEM

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902 FAX: 561-775-4903

MANUFACTURER
AMERICAN WARMING & VENTILATING
 7301 INTERNATIONAL DRIVE
 HOLLAND, OHIO 43528
 419-865-5000

CERTIFICATION
 DEC 17 2008
 W. W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO.	REV.
1217	A
SHEET NO.	
1 of 15	



- 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 MULLED UNITS
 (3 PANEL UNIT SHOWN; MORE THAN 3 PANELS MAY BE MULLED/STACKED HORIZONTALLY)
 RECTANGULAR PANELS SHOWN; SHAPED PANELS MAY ALSO BE MULLED PROVIDING THE MULLION END CONNECTIONS ARE AS DETAILED WITH THE ABOVE RECTANGULAR ELEVATION.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 08-1724-02
 Expiration Date 04/22/2014
 By [Signature]
 Miami Dade Product Control
 Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 04/03/03	
NO.	REVISION DESCRIPTION	DATE	BY
A3	REDUCED CLIP SPACING	08/22/05	W.W.S.
DRAWING TITLE LE-32 LOUVER SYSTEM			
MANUFACTURER AMERICAN WARMING & VENTILATING 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION DEC 17 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1217		REV. A	
SHEET NO. 2		OF 15	

MULLION LOAD TABLE (SEE INSTRUCTIONS BELOW)

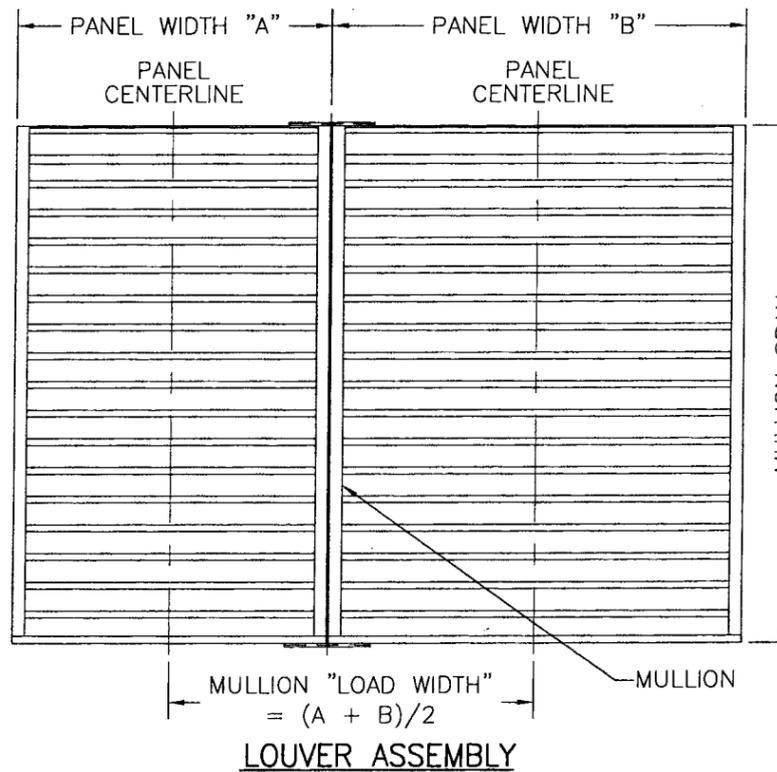
MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MULLION SPAN (IN.)	LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)
18"	96"	180.0	60"	96"	65.7	84"	96"	47.0	120"	96"	32.9
	24"	96"		164.3	90"		70.1	90"		50.1	90"
96"		164.3		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
30"	96"	131.5		66"	95.6		66"	68.3		66"	47.8
	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
36"	66"	180.0		36"	175.3		36"	125.2		36"	87.6
	96"	109.6		30"	180.0		30"	150.2		30"	105.2
	90"	116.9	66"	96"	59.8	96"	24"	180.0	132"	24"	131.5
	84"	125.2		90"	63.7		90"	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
	60"	175.3		66"	86.9		72"	54.8		78"	33.5
54"	180.0	60"		95.6	60"		59.8	72"		36.3	
96"	93.9	54"		106.2	54"		73.0	66"		39.6	
90"	100.2	48"		119.5	48"		82.2	60"		43.6	
84"	107.3	42"		136.6	42"		93.9	54"		48.4	
78"	115.6	36"		159.3	36"		109.6	42"		54.4	
72"	125.2	30"		180.0	30"		131.5	36"		62.2	
42"	66"	136.6	96"	54.8	96"	36.5	30"	72.6			
	60"	150.2	90"	58.4	90"	39.0	24"	87.1			
	54"	166.9	84"	62.6	84"	41.7	18"	108.9			
	48"	180.0	78"	67.4	78"	44.9	18"	145.2			
	96"	82.2	72"	73.0	72"	48.7	72"	28.0			
	90"	87.6	66"	79.7	66"	53.1	66"	30.5			
	84"	93.9	60"	87.6	60"	58.4	60"	33.5			
	78"	101.1	54"	97.4	54"	64.9	54"	37.3			
48"	72"	109.6	48"	109.6	48"	73.0	48"	41.9			
	66"	119.5	42"	125.2	42"	83.5	42"	47.9			
	60"	131.5	36"	146.1	36"	97.4	36"	55.9			
	54"	146.1	30"	175.3	30"	116.9	30"	67.1			
	48"	164.3	24"	180.0	24"	146.1	24"	83.9			
	42"	180.0	18"	180.0	18"	180.0	18"	111.8			

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" O.C. 20" CLIP SPACING IS ONLY ALLOWED ON RECTANGULAR & SQUARE SHAPE LOUVERS.
 (2) PRESSURES RELATING TO 12.5" CLIP SPACING 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.

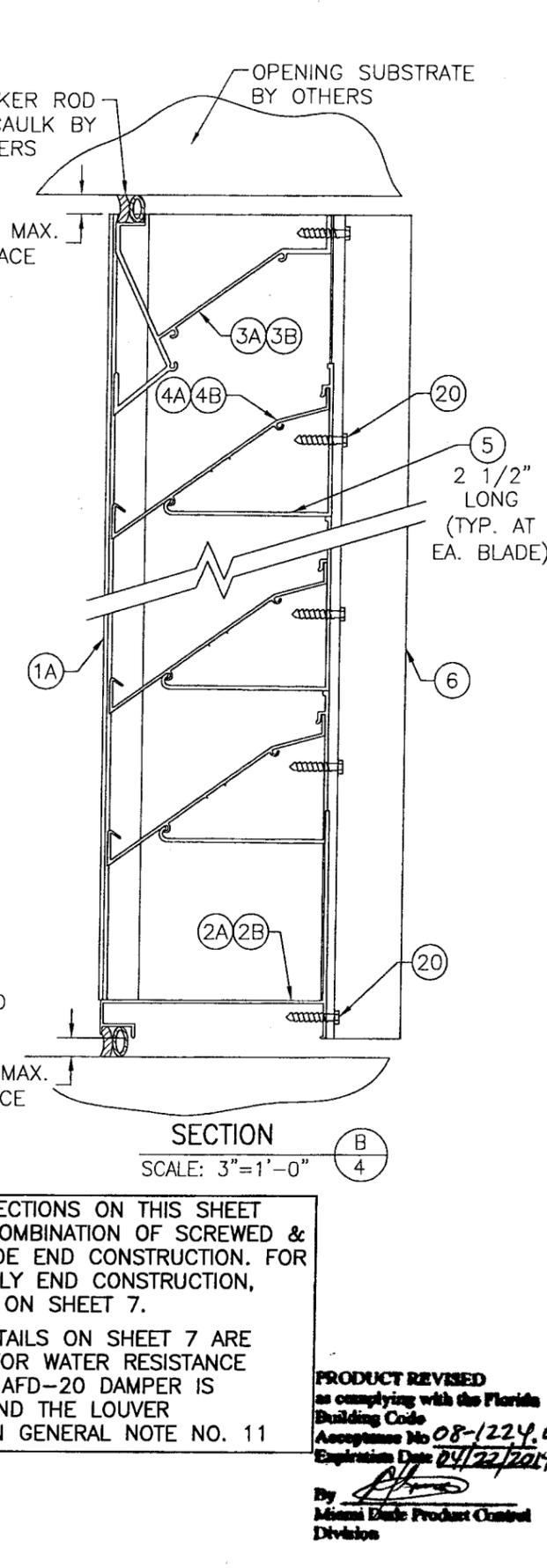
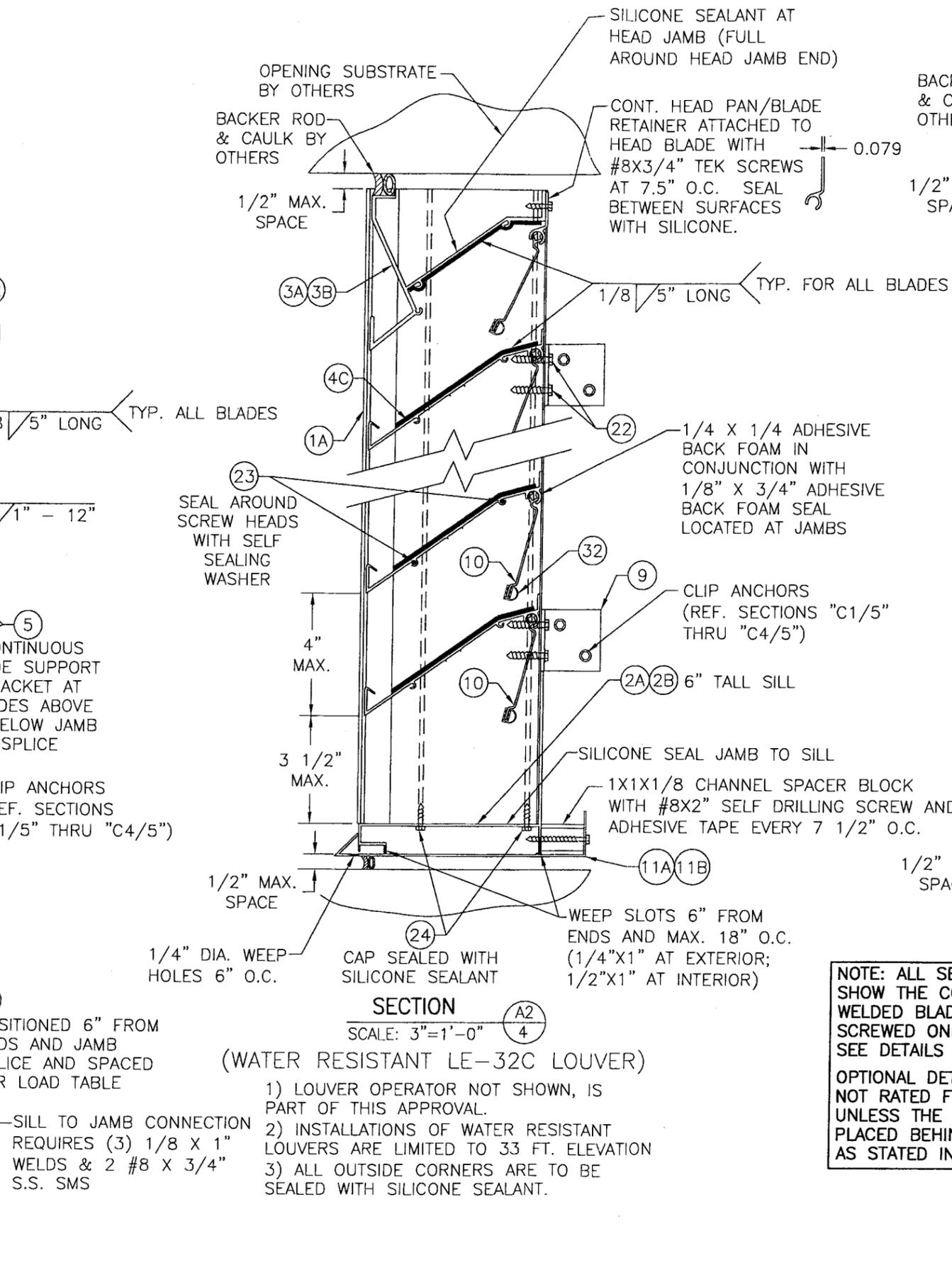
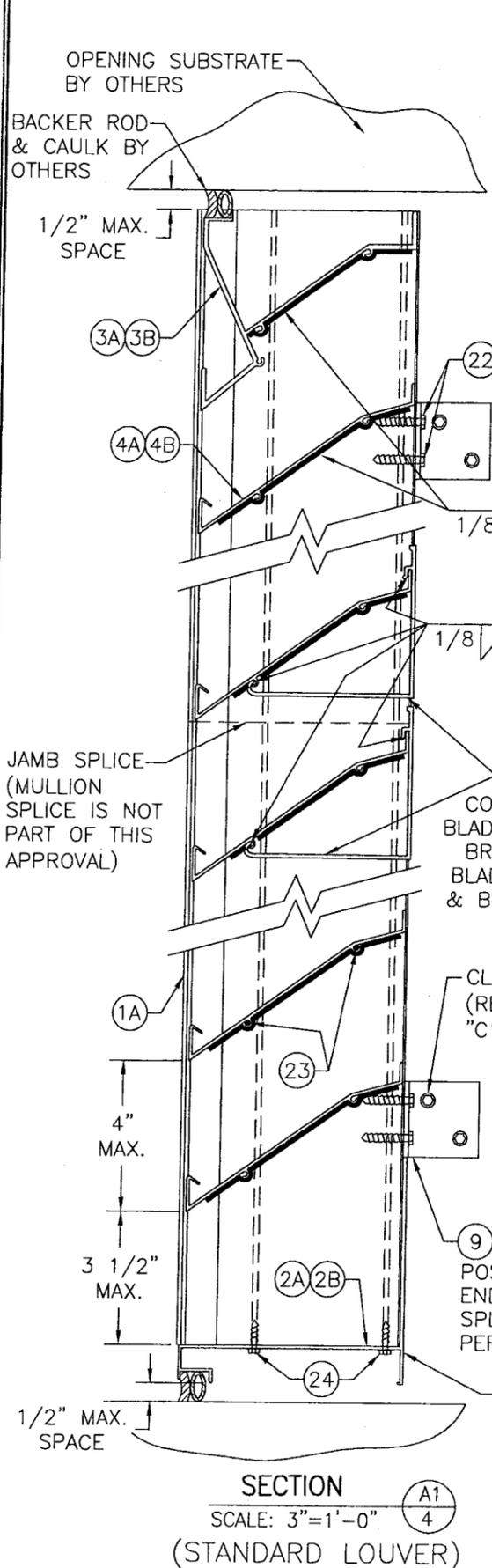


MULLION LOAD TABLE INSTRUCTIONS:

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 REVIEWED
 as complying with the Florida Building Code
 Acceptance No. 08-1224.02
 Expiration Date 04/22/2014
 By [Signature]
 Miami Code Product Control Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.		
PLOT: 1=24	DATE: 04/03/03		
NO.	DATE	BY	DESCRIPTION
A3	08/22/03	W.W.S.	REDUCED CLIP SPACING
DRAWING TITLE: LE-32 LOUVER SYSTEM MANUFACTURER: AMERICAN WARMING & VENTILATING CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 P.E. NO. 44135 WARREN W. SCHAEFER, P.E. DEC 17 2008 DRAWING NO. 1217 REV. A SHEET NO. 3 OF 15			



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.

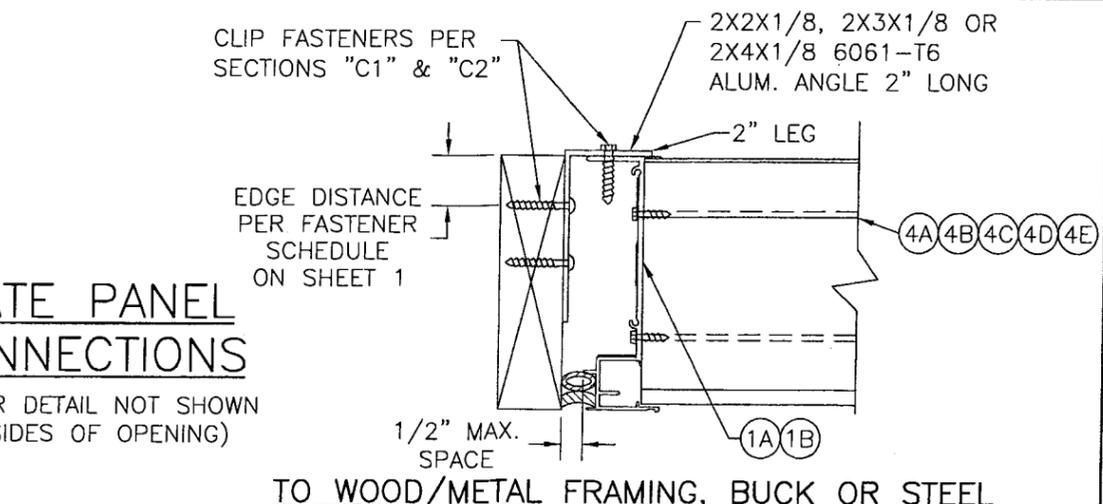
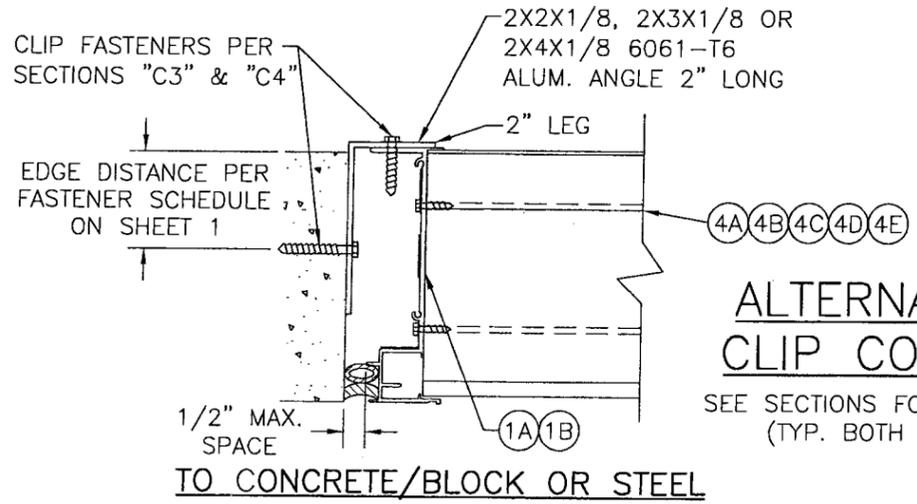
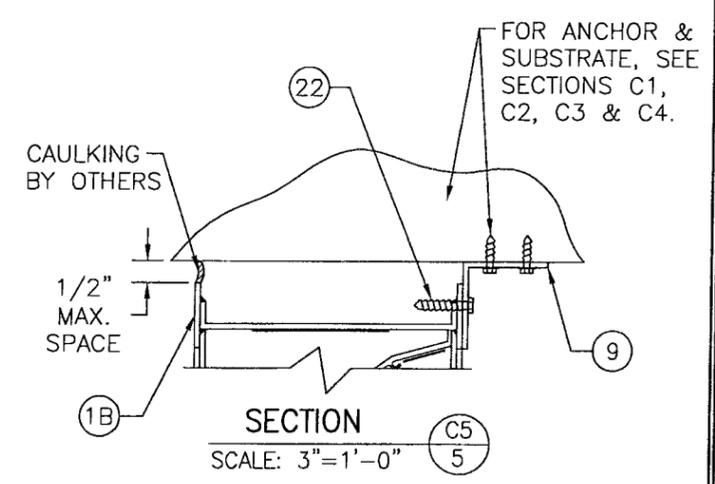
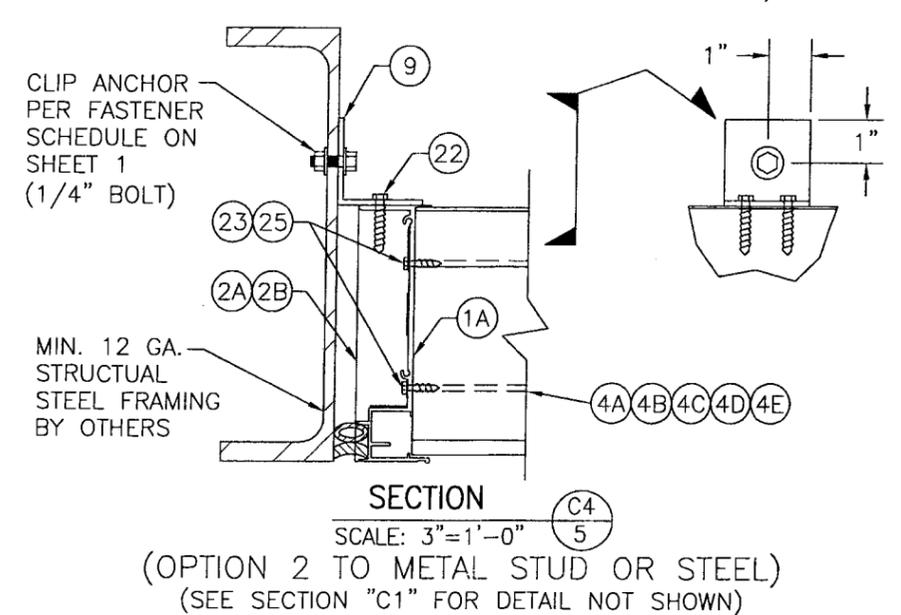
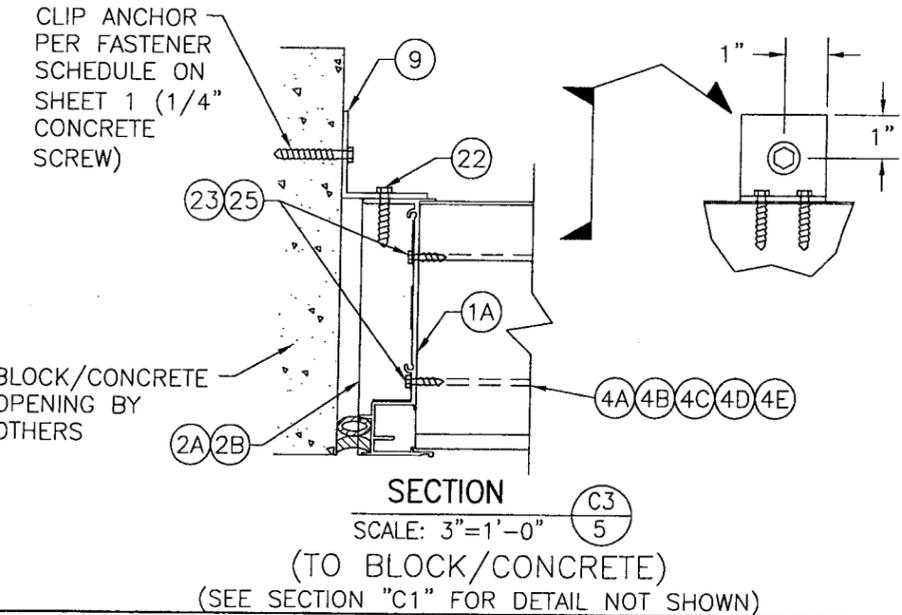
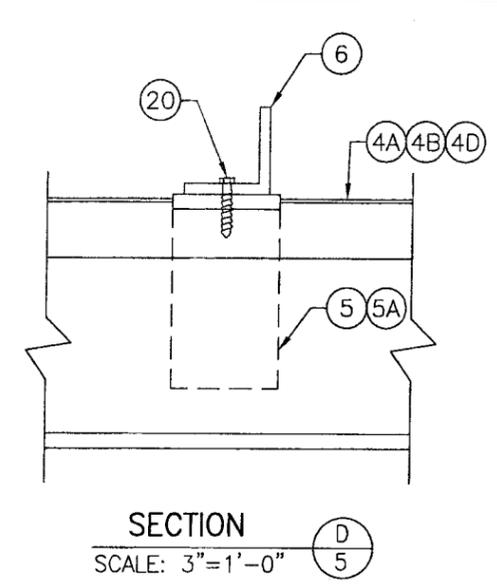
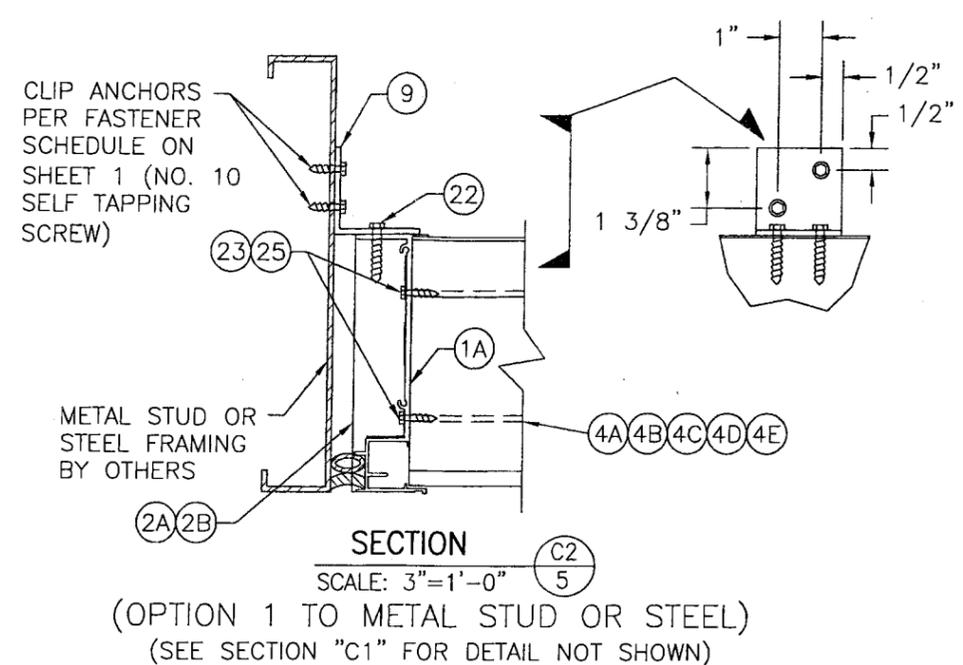
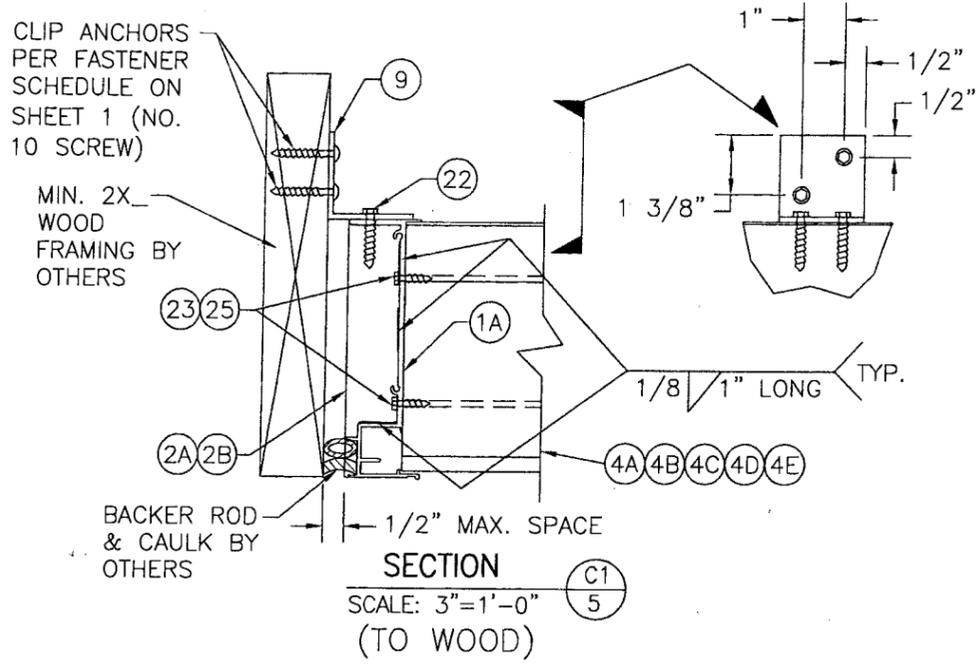
OPTIONAL DETAILS ON SHEET 7 ARE NOT RATED FOR WATER RESISTANCE UNLESS THE AFD-20 DAMPER IS PLACED BEHIND THE LOUVER AS STATED IN GENERAL NOTE NO. 11

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No 08-1224.02
 Expiration Date 04/22/2011

By *[Signature]*
 Miami Dade Product Control Division

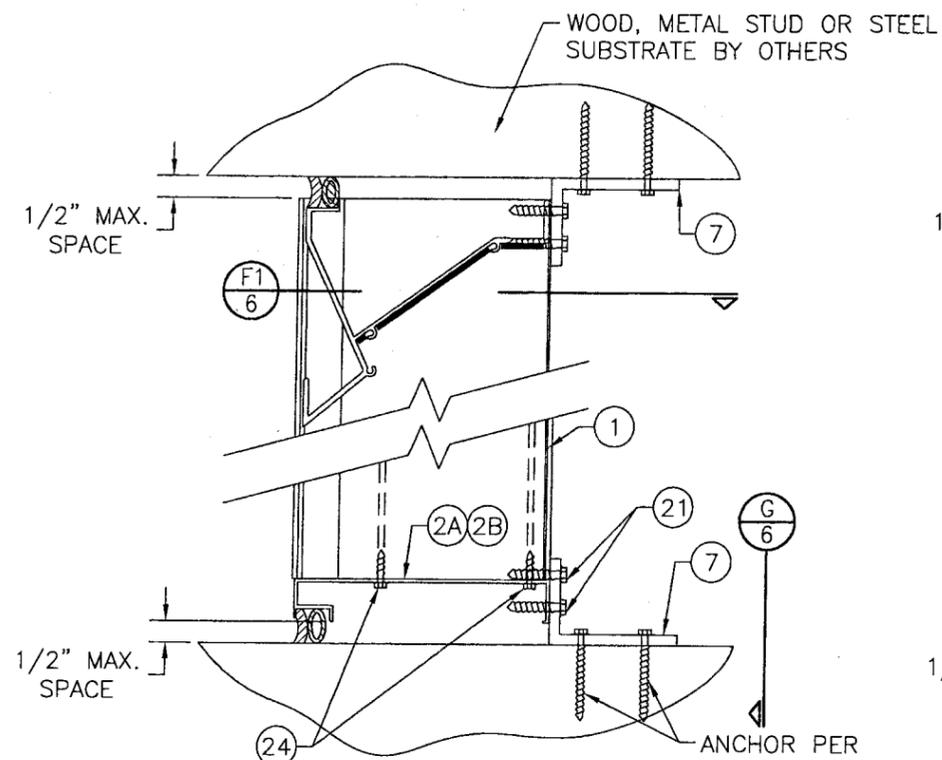
- 1) LOUVER OPERATOR NOT SHOWN, IS PART OF THIS APPROVAL.
- 2) INSTALLATIONS OF WATER RESISTANT LOUVERS ARE LIMITED TO 33 FT. ELEVATION
- 3) ALL OUTSIDE CORNERS ARE TO BE SEALED WITH SILICONE SEALANT.

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 04/03/03	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE LE-32 LOUVER SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER AMERICAN WARMING & VENTILATING	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000	
CERTIFICATION	DEC 17 2008	DRAWING NO.	REV.
		1217	A
		SHEET NO.	4 OF 15



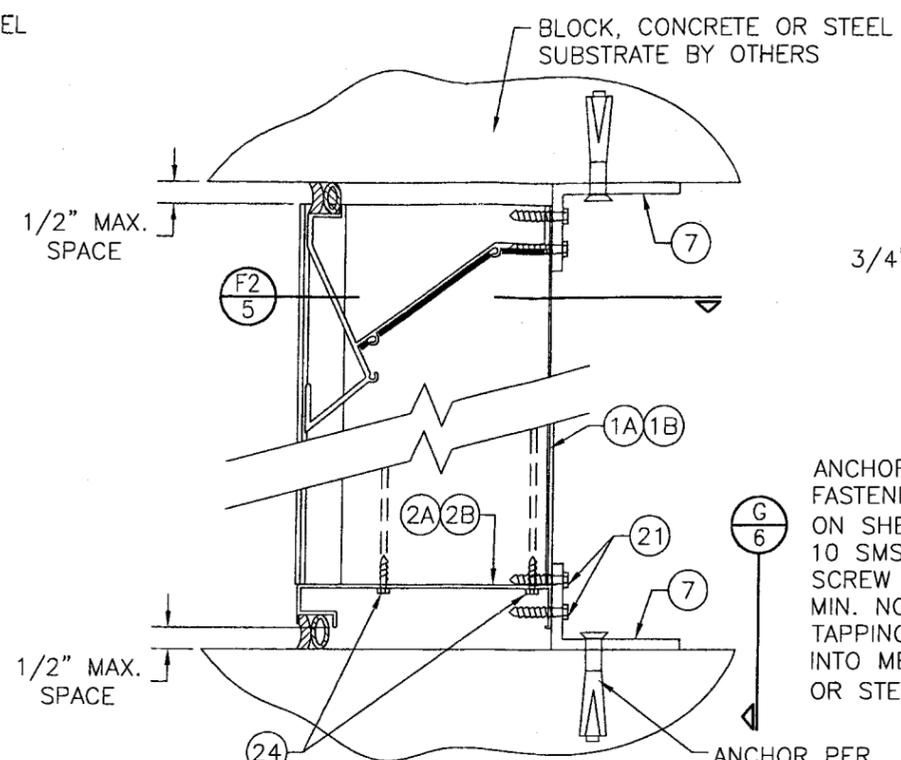
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 08-1224-02
Expiration Date 04/22/2014
By *[Signature]*
Miami Dade Product Control Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLANT: 1=4	DATE: 04/03/03
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE LE-32 LOUVER SYSTEM	
MANUFACTURER AMERICAN WARMING & VENTILATING 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION DEC 17 2008	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1217	REV. A
SHEET NO. 5 OF 15	



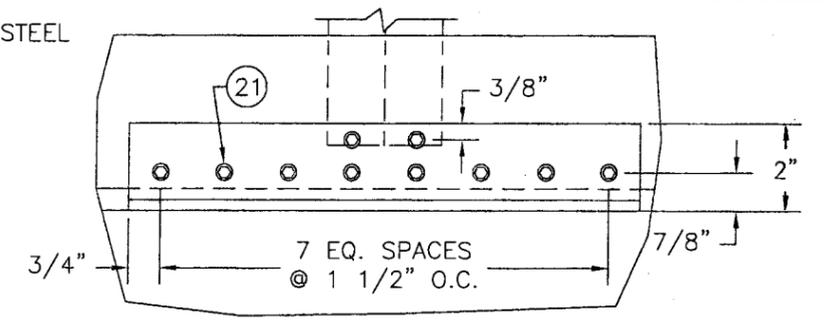
SECTION E1
SCALE: 3"=1'-0"
(INTO WOOD, METAL STUD OR STEEL OPENING)

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)



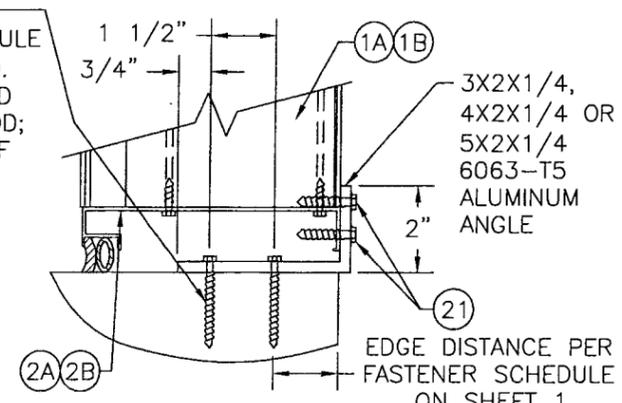
SECTION E2
SCALE: 3"=1'-0"
(INTO CONCRETE OR STRUCTURAL STEEL OPENING)

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



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

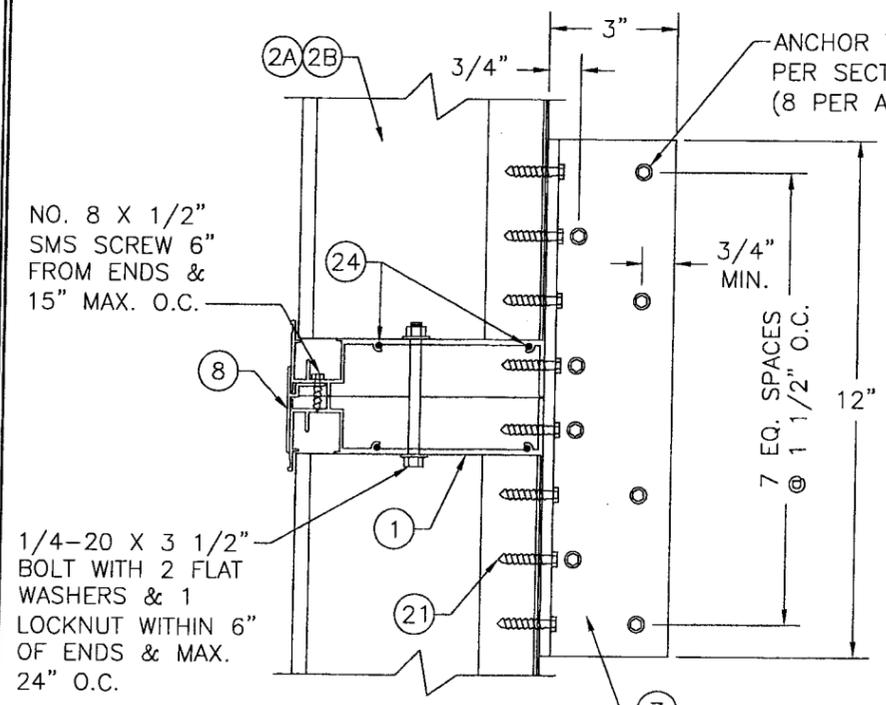
ANCHOR PER FASTENER SCHEDULE ON SHEET 1 (NO. 10 SMS OR WOOD SCREW INTO WOOD; MIN. NO. 10 SELF TAPPING SCREW INTO METAL STUD OR STEEL)



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

3X2X1/4, 4X2X1/4 OR 5X2X1/4 6063-T5 ALUMINUM ANGLE

EDGE DISTANCE PER FASTENER SCHEDULE ON SHEET 1



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

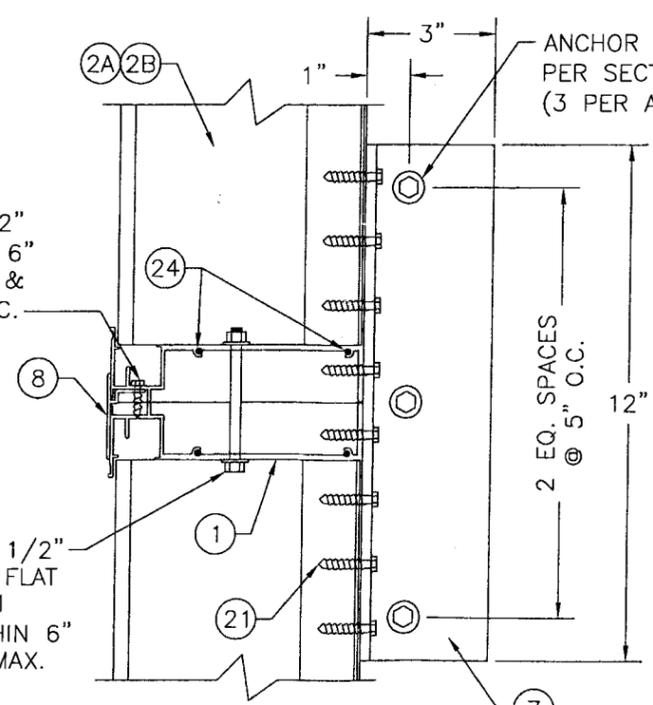
NO. 8 X 1/2" SMS SCREW 6" FROM ENDS & 15" MAX. O.C.

1/4-20 X 3 1/2" BOLT WITH 2 FLAT WASHERS & 1 LOCKNUT WITHIN 6" OF ENDS & MAX. 24" O.C.

ANCHOR TO OPENING PER SECTION "E1" (8 PER ANGLE)

NO. 8 X 1/2" SMS SCREW 6" FROM ENDS & 15" MAX. O.C.

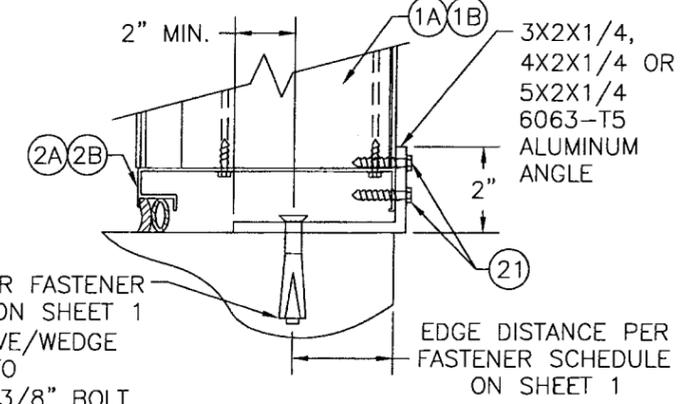
1/4-20 X 3 1/2" BOLT WITH 2 FLAT WASHERS & 1 LOCKNUT WITHIN 6" OF ENDS & MAX. 24" O.C.



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

ANCHOR TO OPENING PER SECTION "E2" (3 PER ANGLE)

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



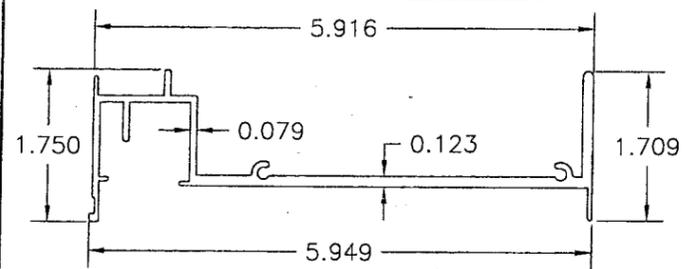
OPTIONAL SECTION E2
SCALE: 3"=1'-0"
SILL SHOWN; HEAD SIMILAR

EDGE DISTANCE PER FASTENER SCHEDULE ON SHEET 1

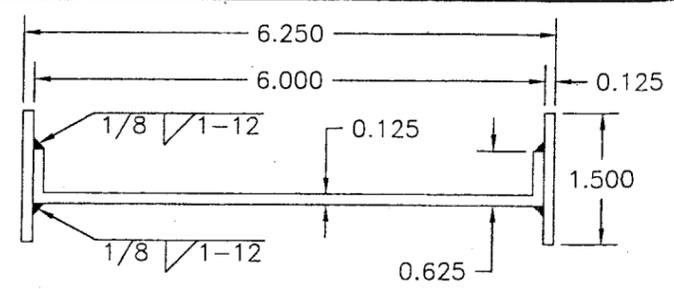
PRODUCT REVISED
as complying with the Florida Building Code
Amendment No. 08-1224-02
Expiration Date 01/21/2014

By *[Signature]*
Miami-Dade Product Control Division

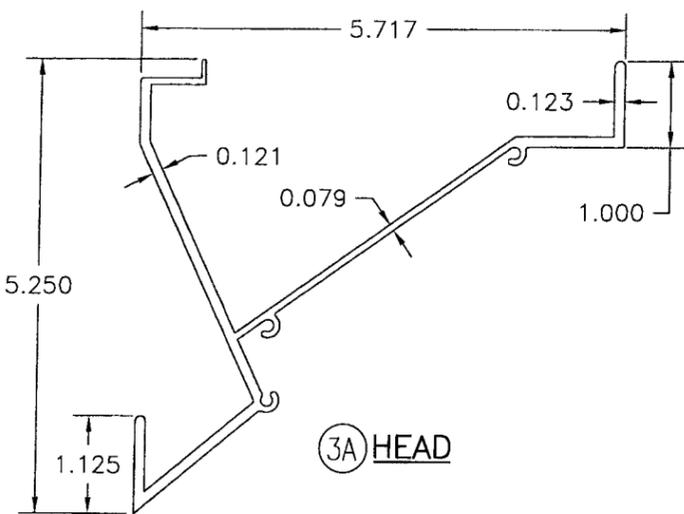
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.	PLOT: 1=4	DATE: 04/03/03	NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE LE-32 LOUVER SYSTEM							
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903				MANUFACTURER AMERICAN WARMING & VENTILATING 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000			
CERTIFICATION DEC 17 2008							
DRAWING NO. 1217		REV. A		SHEET NO. 6 OF 15			



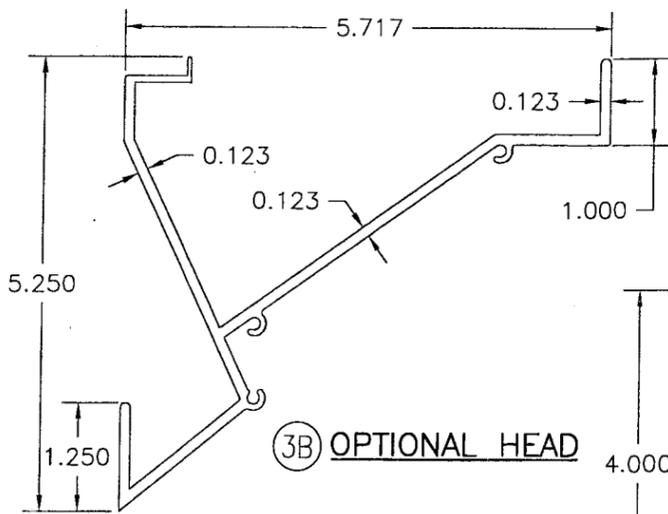
①A STANDARD STRAIGHT JAMB



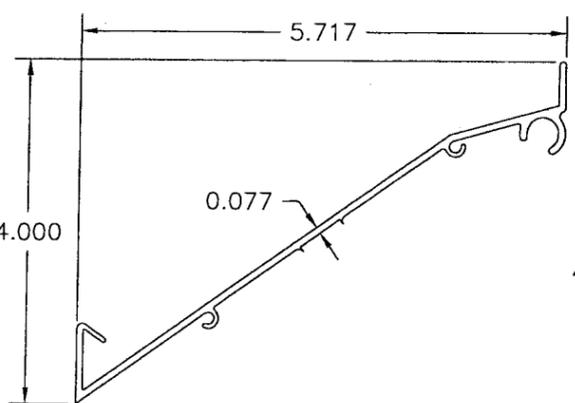
①B RADIUS JAMB



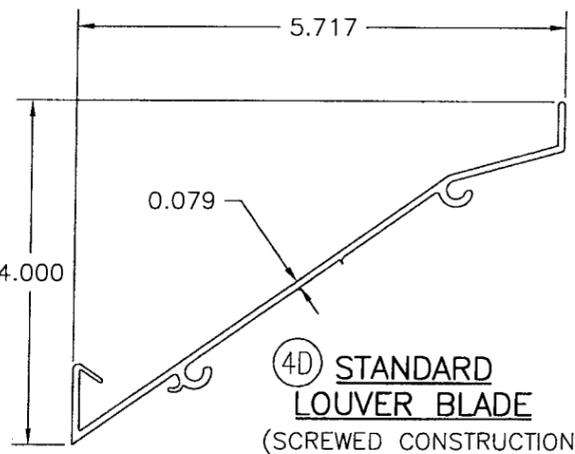
③A HEAD



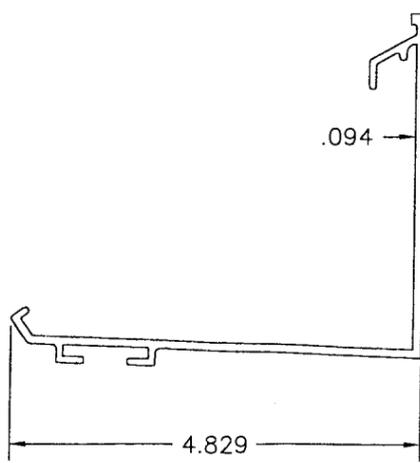
③B OPTIONAL HEAD



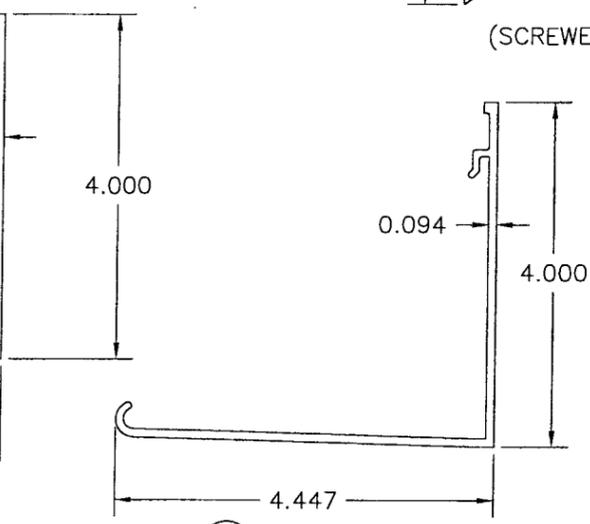
④C WATER RESISTANT LOUVER BLADE (SCREWED & WELDED CONSTRUCTION)



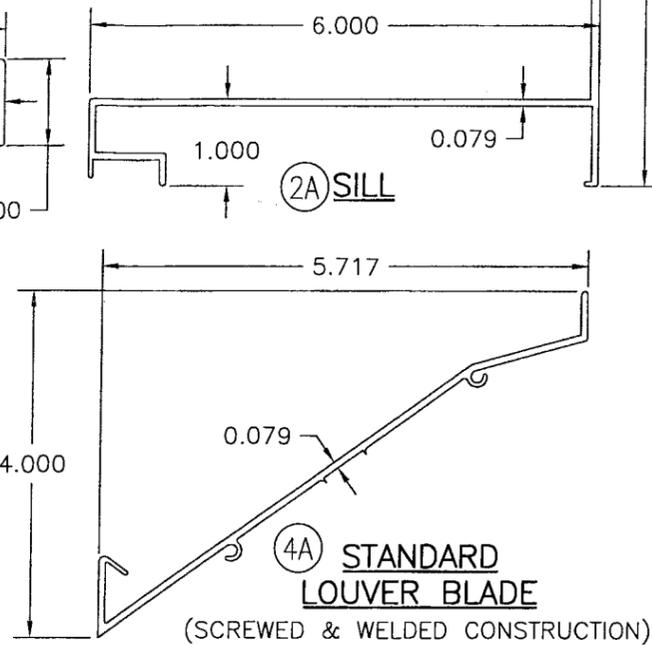
④D STANDARD LOUVER BLADE (SCREWED CONSTRUCTION)



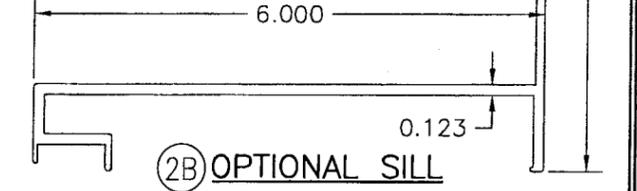
⑤A BLADE SUPPORT BRACKET (SCREWED CONSTRUCTION)



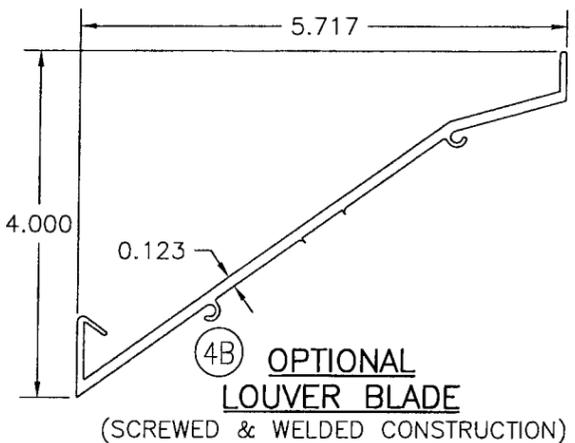
⑤ BLADE SUPPORT BRACKET (SCREWED & WELDED CONSTRUCTION)



②A SILL



②B OPTIONAL SILL



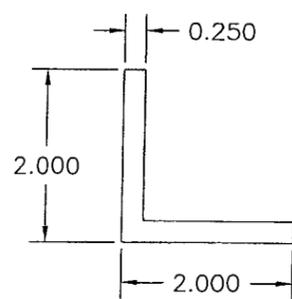
④B OPTIONAL LOUVER BLADE (SCREWED & WELDED CONSTRUCTION)

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 08-1224-02 Expiration Date 07/22/2014
By *[Signature]*
Miami Trade Product Control Division

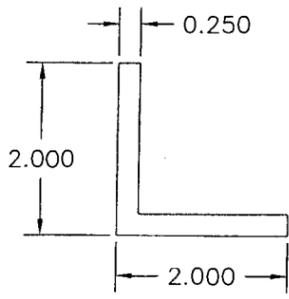
DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/03/03	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE LE-32 LOUVER SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER AMERICAN WARMING & VENTILATING 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000	
CERTIFICATION	DEC 2000	WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.		
1217	A		
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

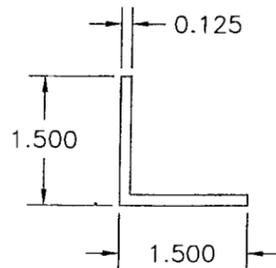
(1) PARTS 4C & 10 SHALL BE USED IN PLACE OF PART 4A OR 4B WHEN LOUVER IS REQUIRED TO RESIST WATER PENETRATION.



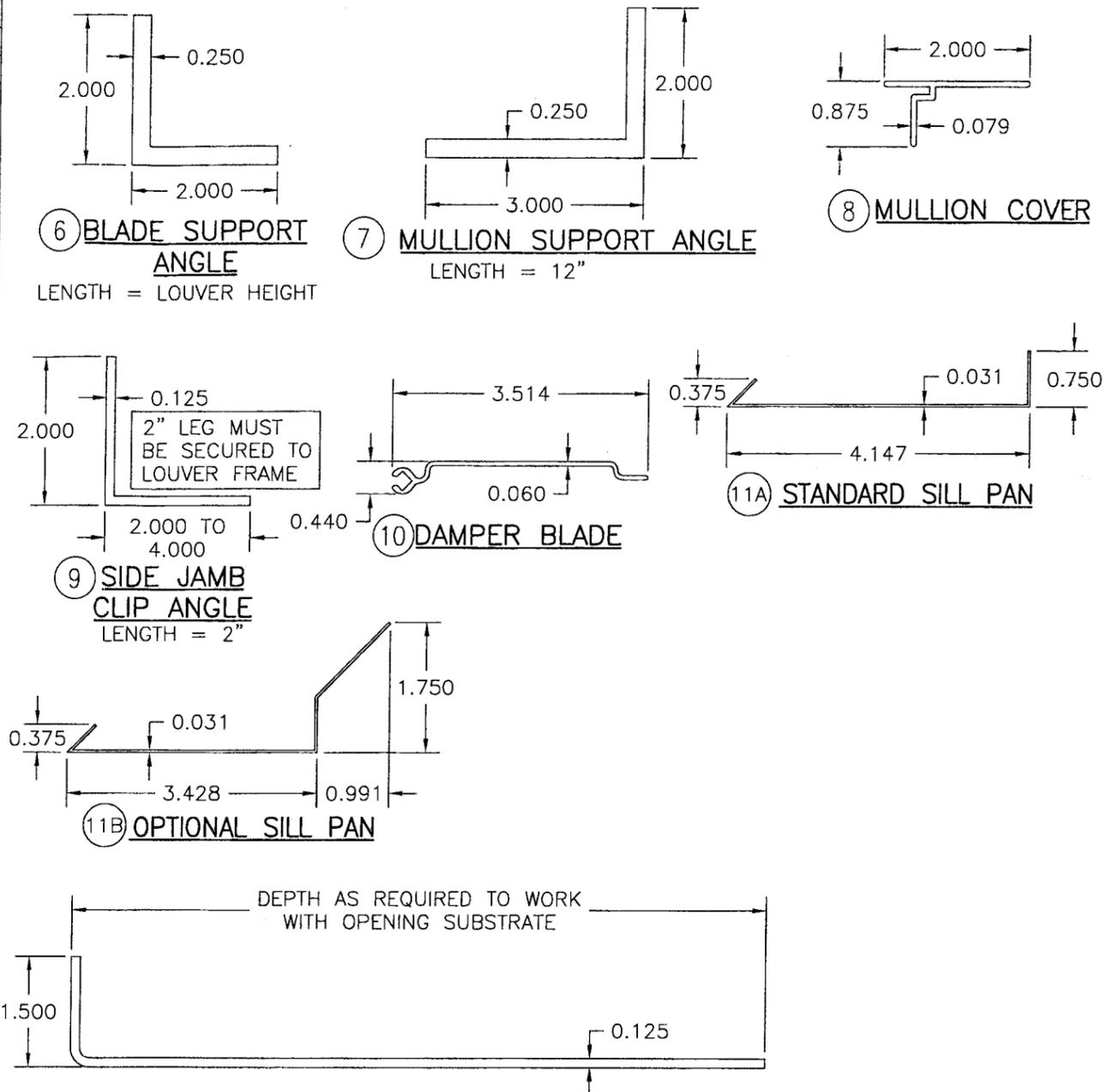
⑬ CONTINUOUS MOUNTING ANGLE



⑭ MULLION END SUPPORT ANGLE
LENGTH = 12"



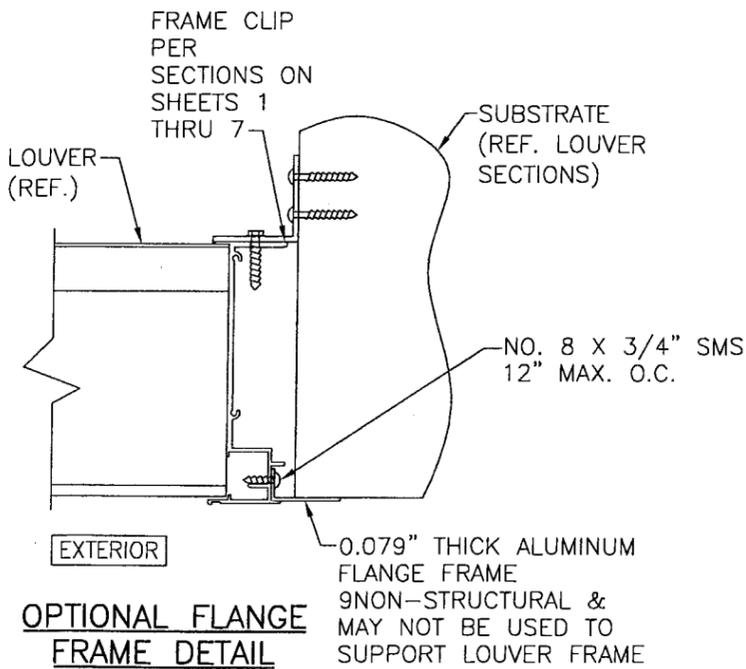
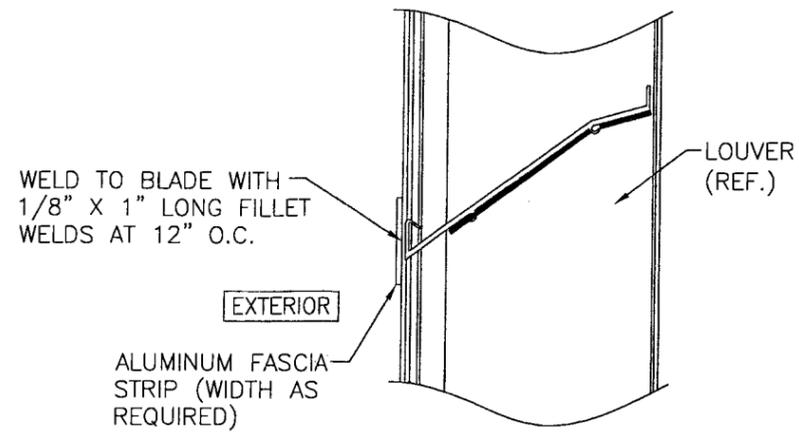
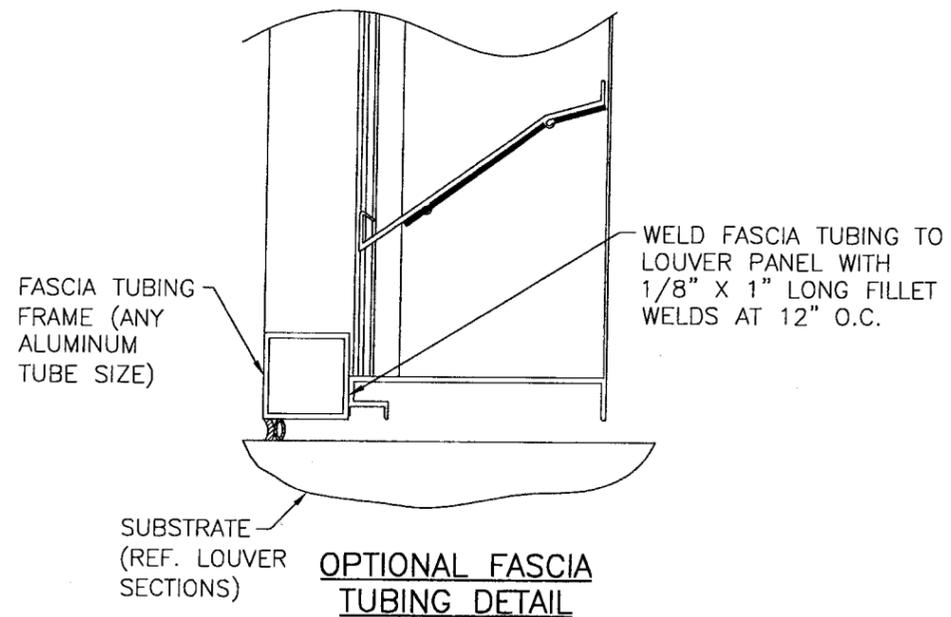
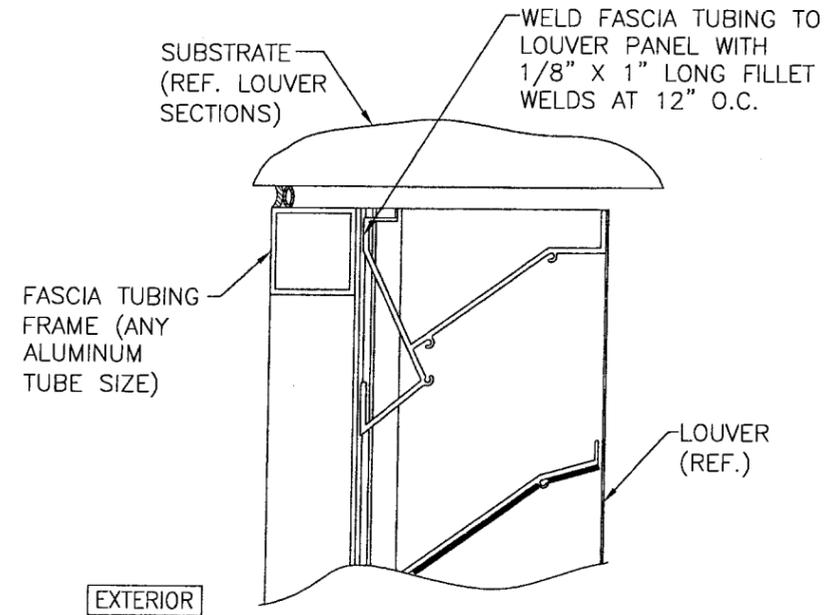
⑮ CONTINUOUS MOUNTING ANGLE



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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 08-1224.02
Expiration Date 04/22/2014
By *[Signature]*
Minimum Daily Product Control
Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/03/03
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE LE-32 LOUVER SYSTEM	
MANUFACTURER AMERICAN WARMING & VENTILATING 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION DEC 17 2008	W. W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1217	REV. A
SHEET NO. 9 OF 15	



FOR LOUVER DETAILS,
SEE SHEETS 1-9

DRAWN BY: K.P.S. CHECKED BY: W.W.S.
PLOT: 1=4 DATE: 04/03/03

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: LE-32 LOUVER SYSTEM
MANUFACTURER: AMERICAN WARMING & VENTILATING
7301 INTERNATIONAL DRIVE
HOLLAND, OHIO 43528
419-865-5000

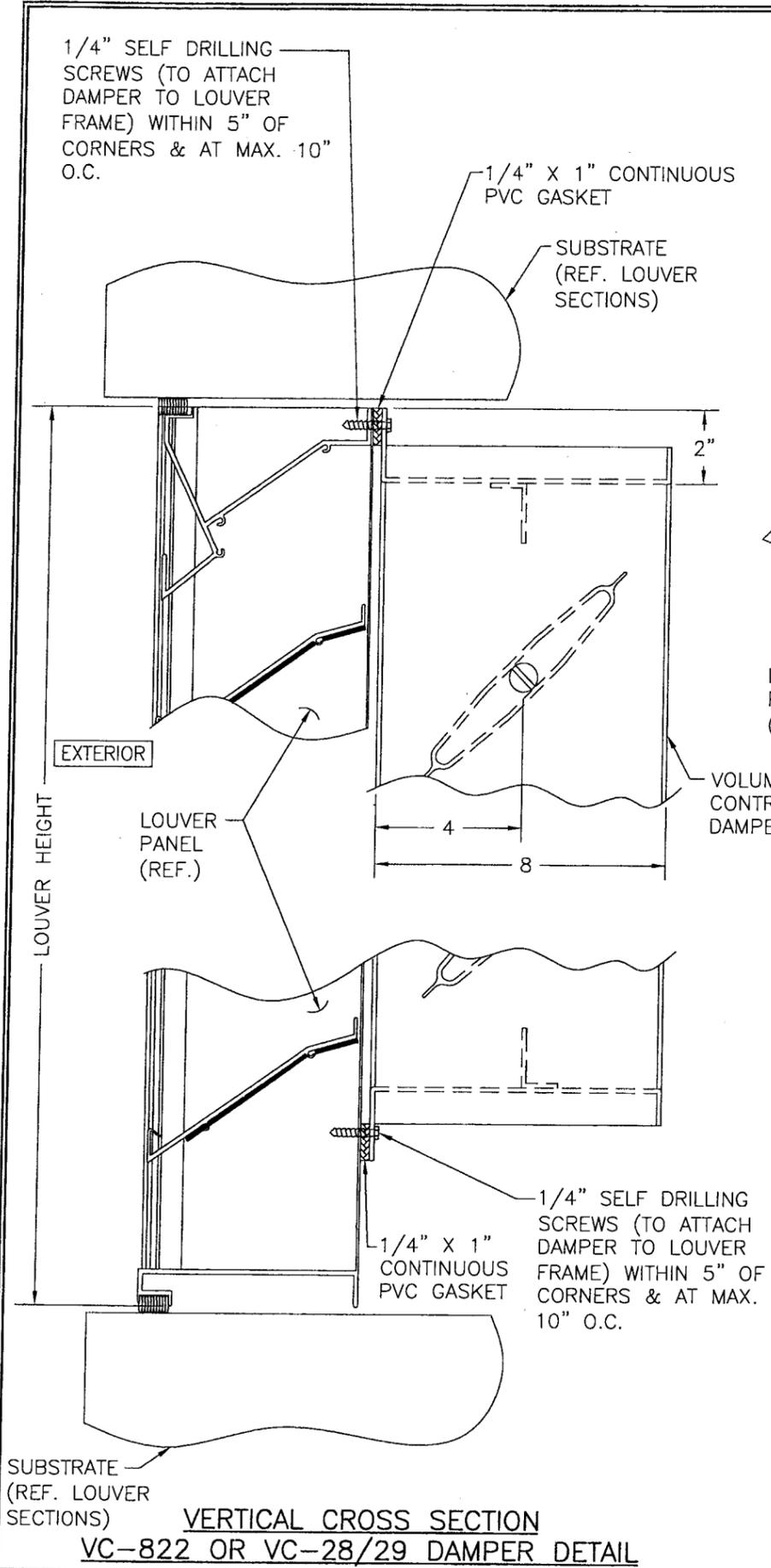
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION: DEC 17 2000
W. W. SCHAEFER, P.E.
P.E. NO. 44135

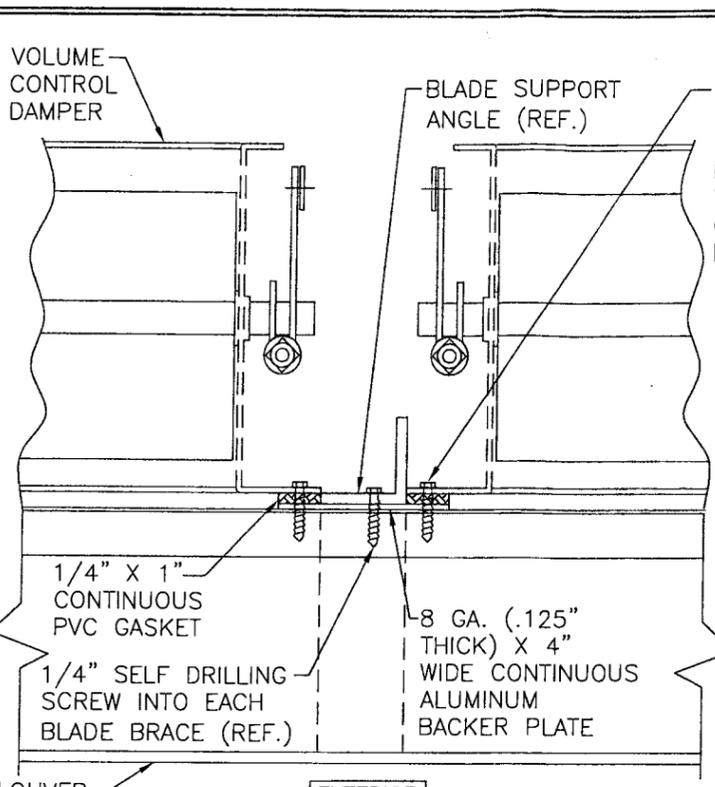
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 08-1224.02
Expiration Date 04/23/2014

By: [Signature]
Miami Dade Product Control
Division

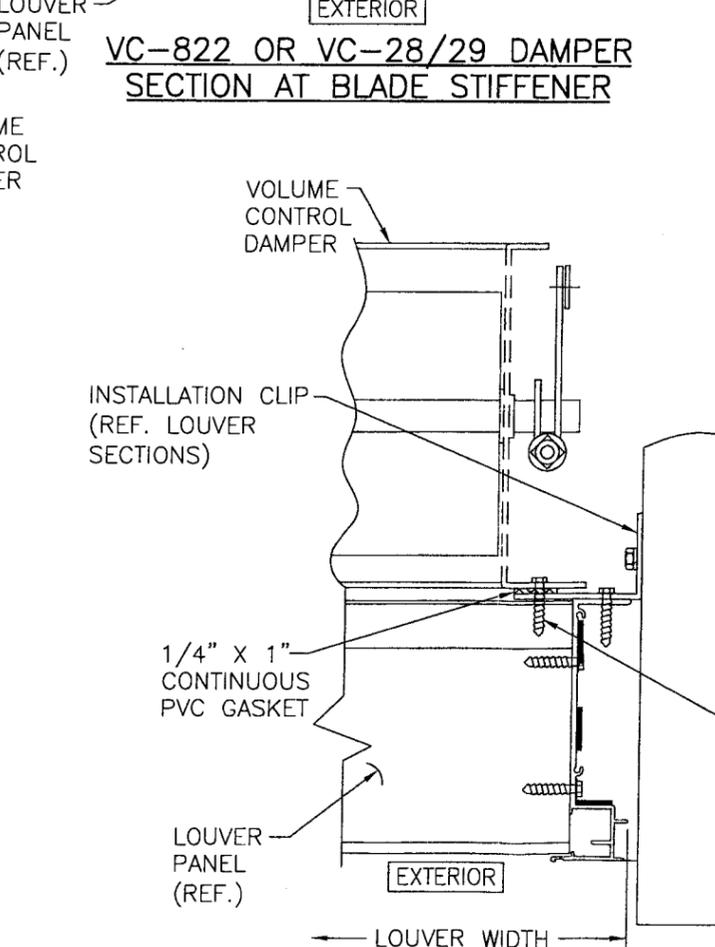
DRAWING NO. 1217 REV. A
SHEET NO. 10 OF 15



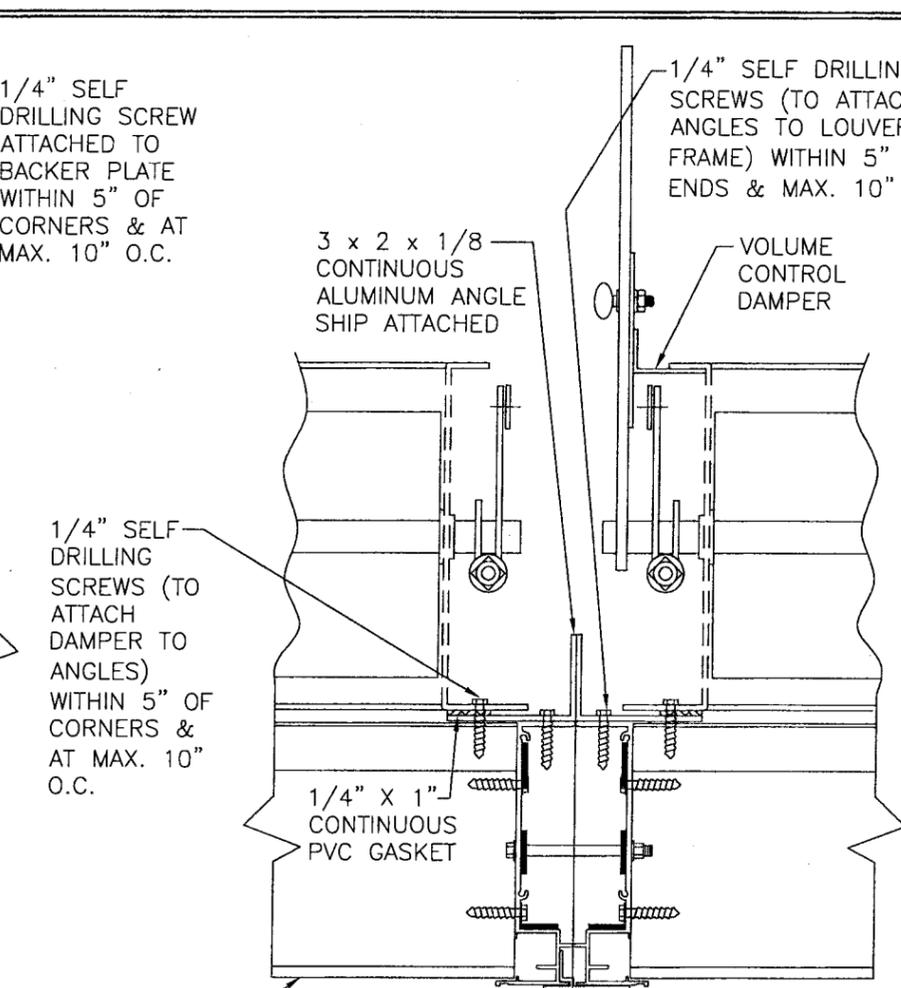
**VERTICAL CROSS SECTION
VC-822 OR VC-28/29 DAMPER DETAIL**



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



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



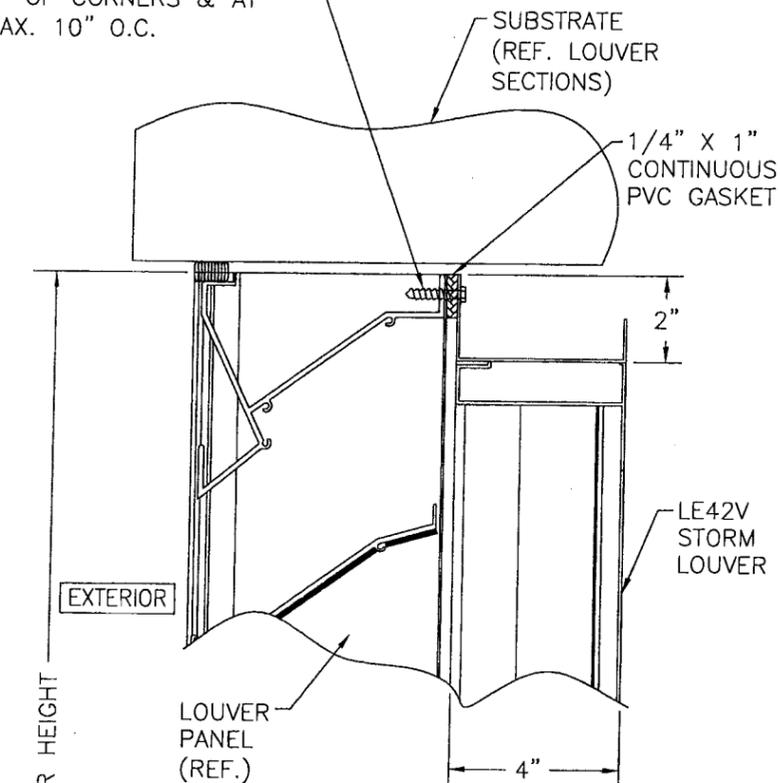
**VC-822 OR VC-28/29 DAMPER
SECTION AT MULLION**

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-1224-02
Expiration Date 04/22/2014
By *[Signature]*
Miami Trade Product Control
Division

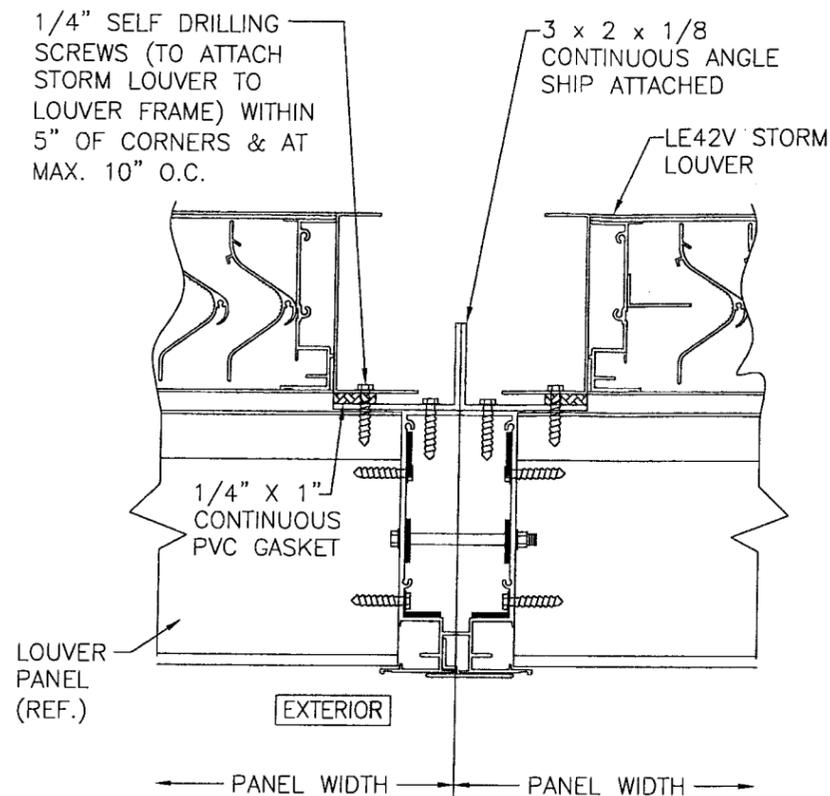
DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 04/03/03	
NO.	REVISION DESCRIPTION	DATE	BY
A4	REDUCED INSTALLATION SCREW SPACING	08/22/05	W.W.S.
DRAWING TITLE LE-32 LOUVER SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4803		MANUFACTURER AMERICAN WARMING & VENTILATING 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000	
CERTIFICATION	DEC 17 2008		
DRAWING NO.	1217	REV.	A
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.



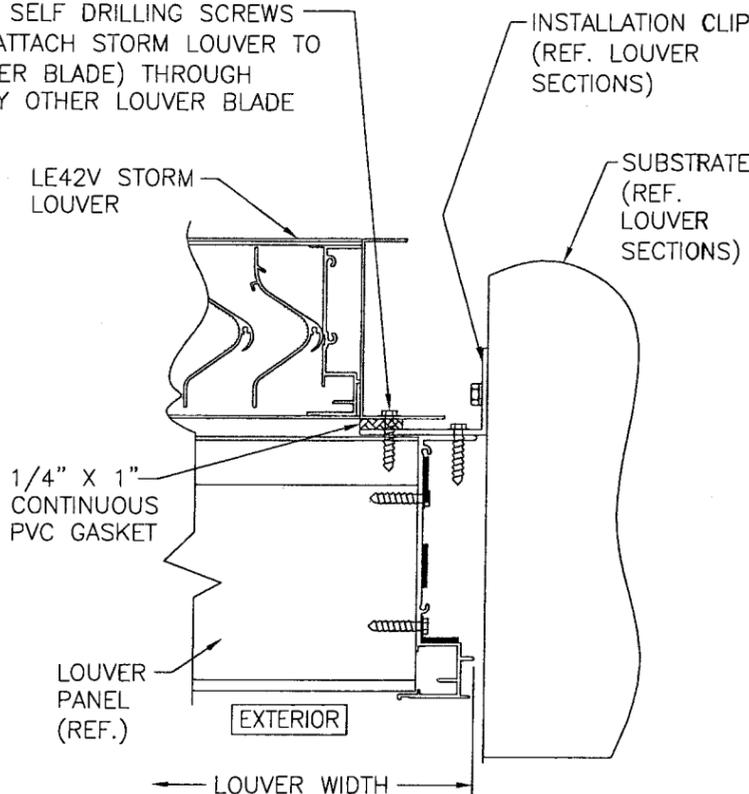
**VERTICAL CROSS SECTION
LE42V STORM LOUVER DETAIL**

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



**LE42V STORM LOUVER
SECTION AT MULLION**

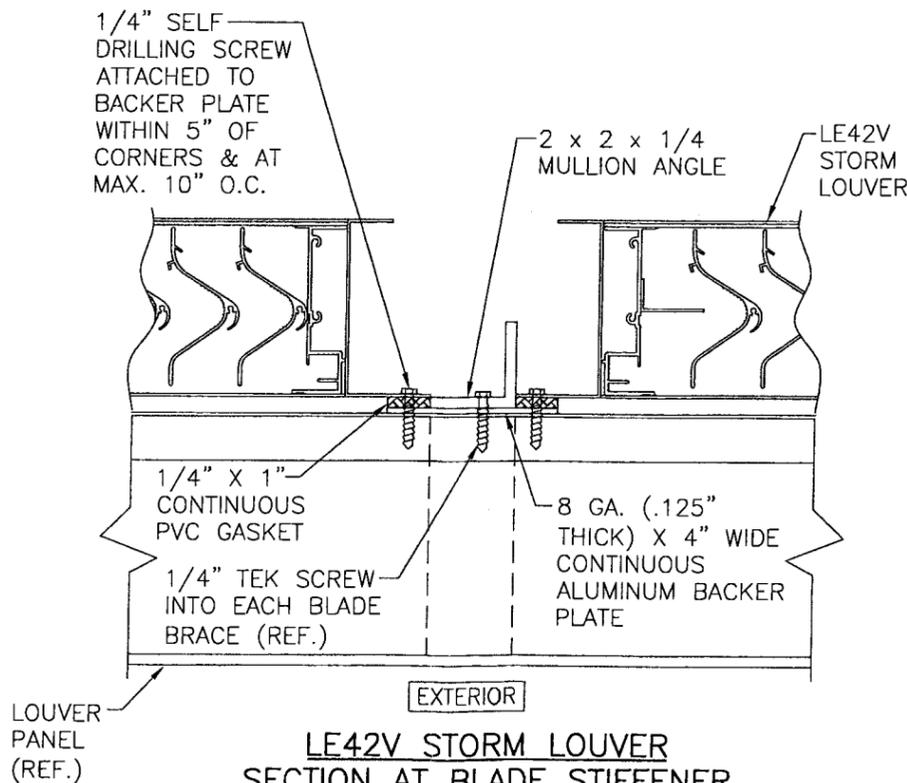
1/4" SELF DRILLING SCREWS (TO ATTACH STORM LOUVER TO LOUVER BLADE) THROUGH EVERY OTHER LOUVER BLADE



**LE42V STORM LOUVER
JAMB DETAIL**

FOR LOUVER DETAILS,
SEE SHEETS 1-9

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



**LE42V STORM LOUVER
SECTION AT BLADE STIFFENER**

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-1224.02
Expiration Date 04/27/2014
By *[Signature]*
Miami Dade Product Control
Division

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			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
MANUFACTURER AMERICAN WARMING & VENTILATING 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000			
CERTIFICATION DEC 17 2008 WARREN W. SCHAEFER P.E. P.E. NO. 44135			
DRAWING NO. 1217		REV. A	
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.

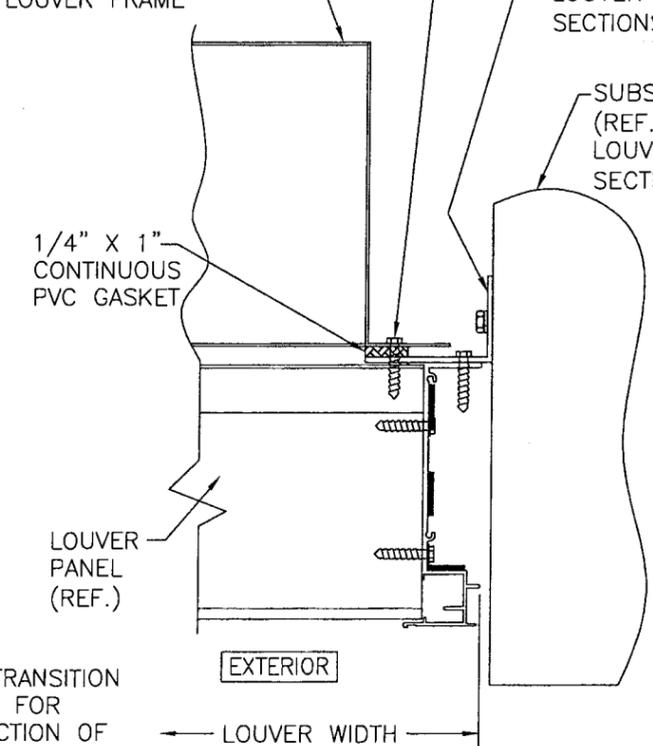
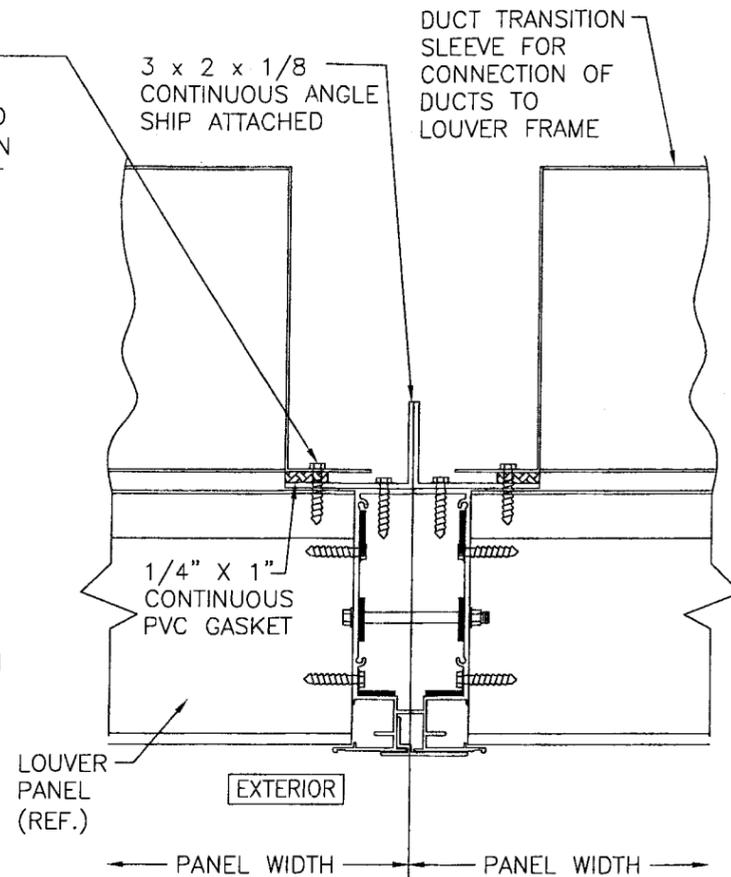
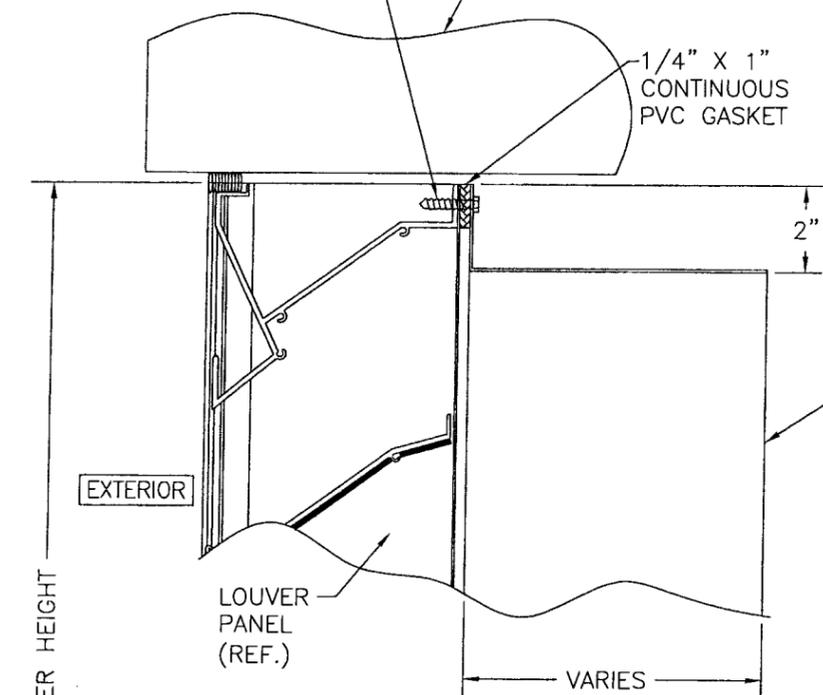
1/4" SELF DRILLING SCREWS (TO ATTACH TRANSITION SLEEVE TO LOUVER FRAME) WITHIN 5" OF CORNERS & AT MAX. 10" O.C.

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

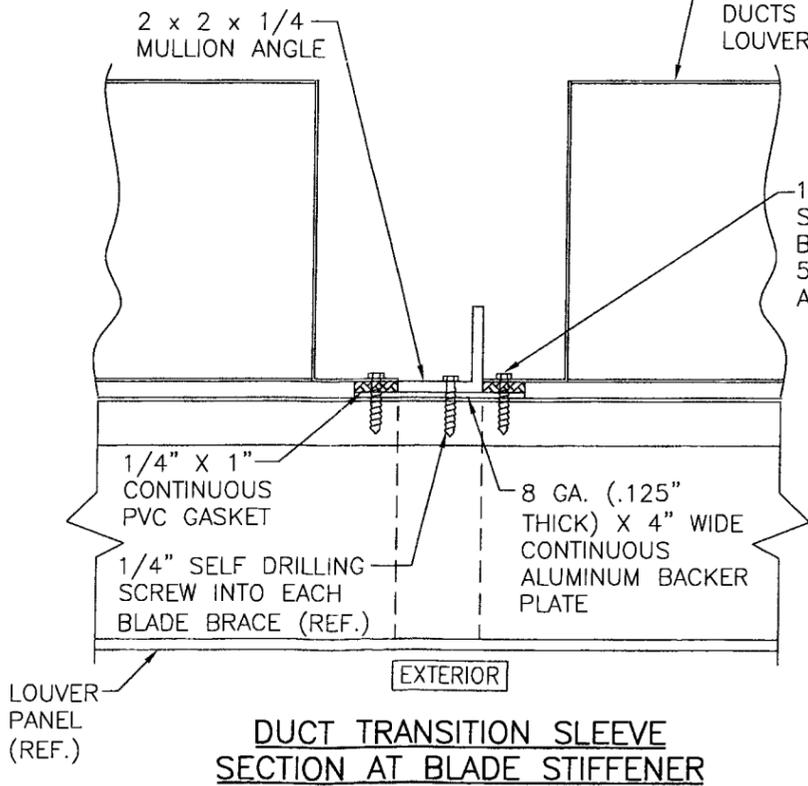
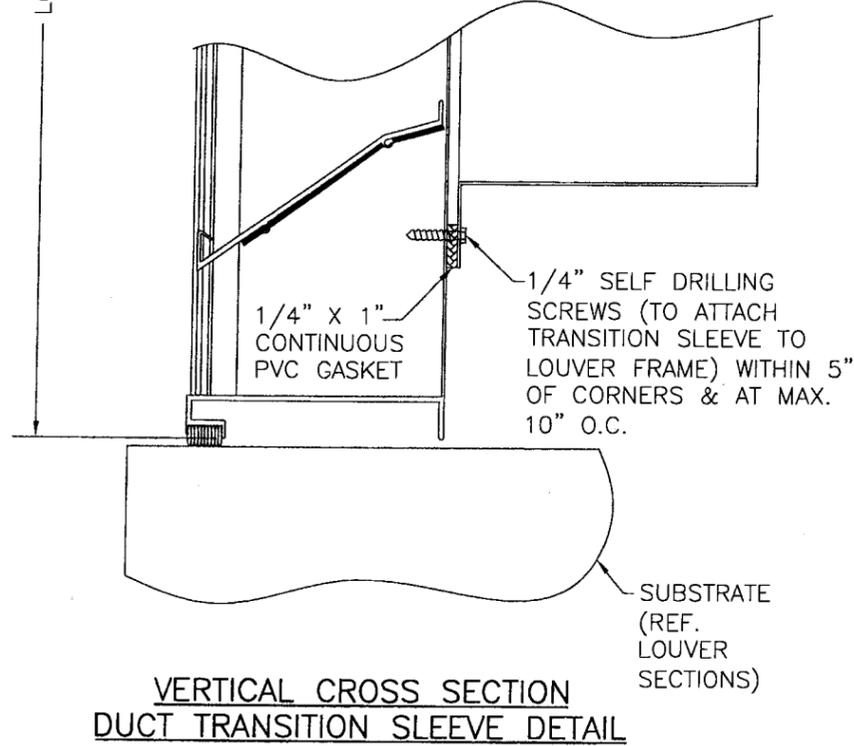
INSTALLATION CLIP (REF. LOUVER SECTIONS)

SUBSTRATE (REF. LOUVER SECTIONS)



DUCT TRANSITION SLEEVE SECTION AT MULLION

DUCT TRANSITION SLEEVE JAMB DETAIL



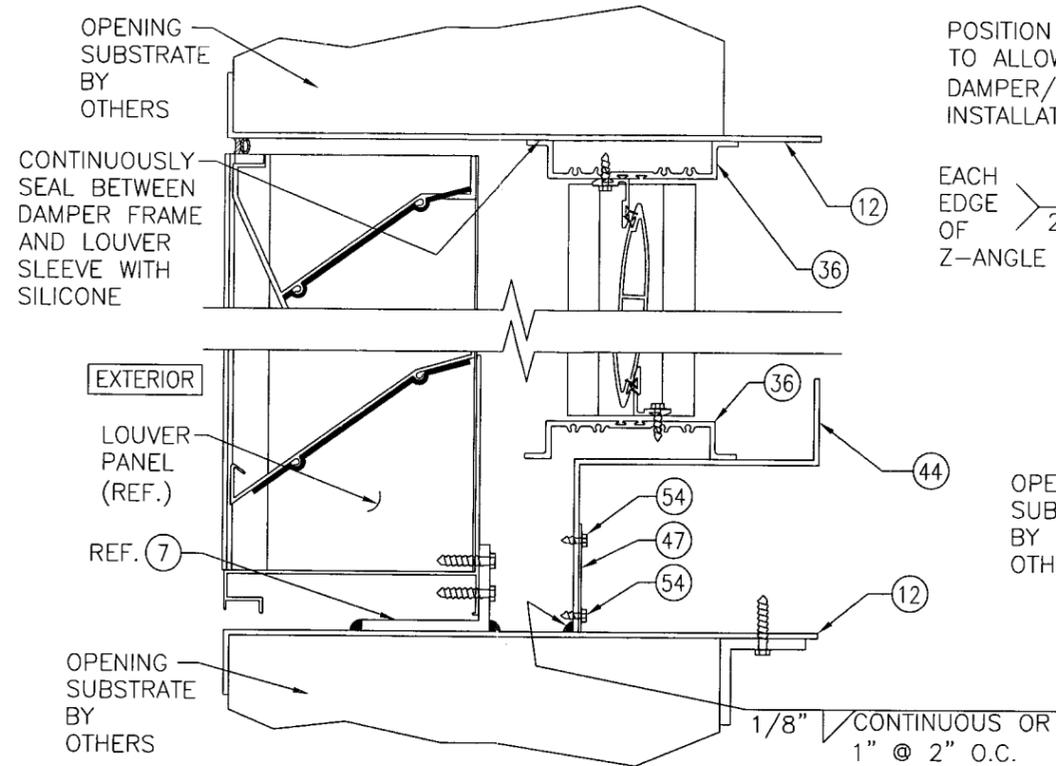
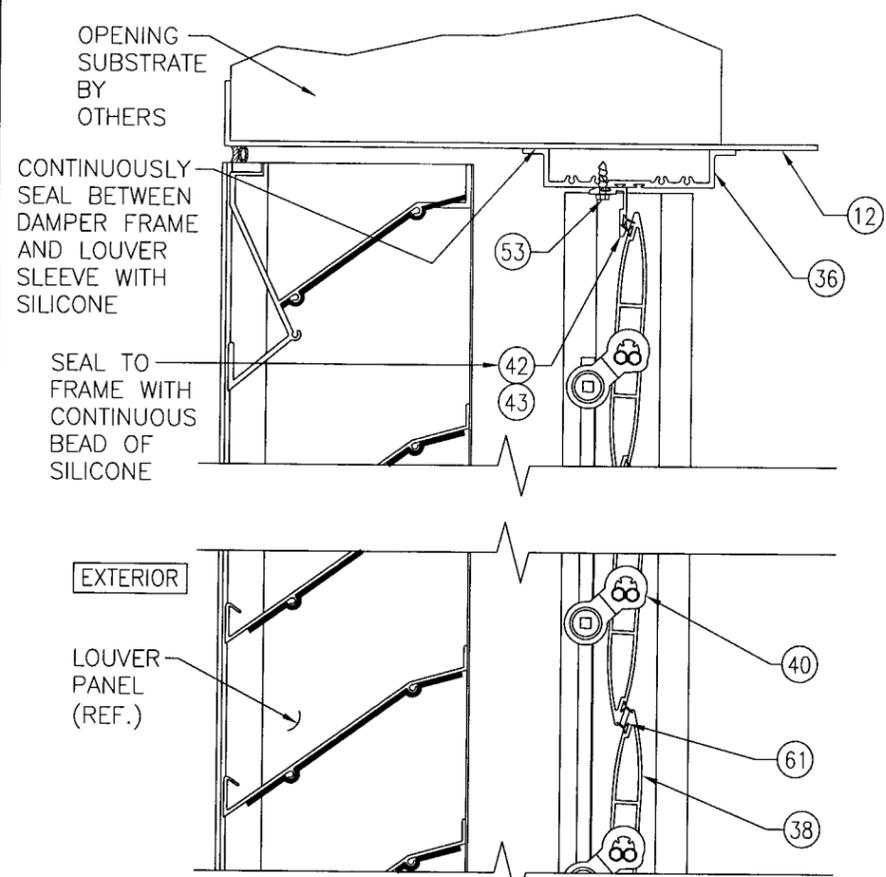
DUCT TRANSITION SLEEVE SECTION AT BLADE STIFFENER

FOR LOUVER DETAILS, SEE SHEETS 1-9

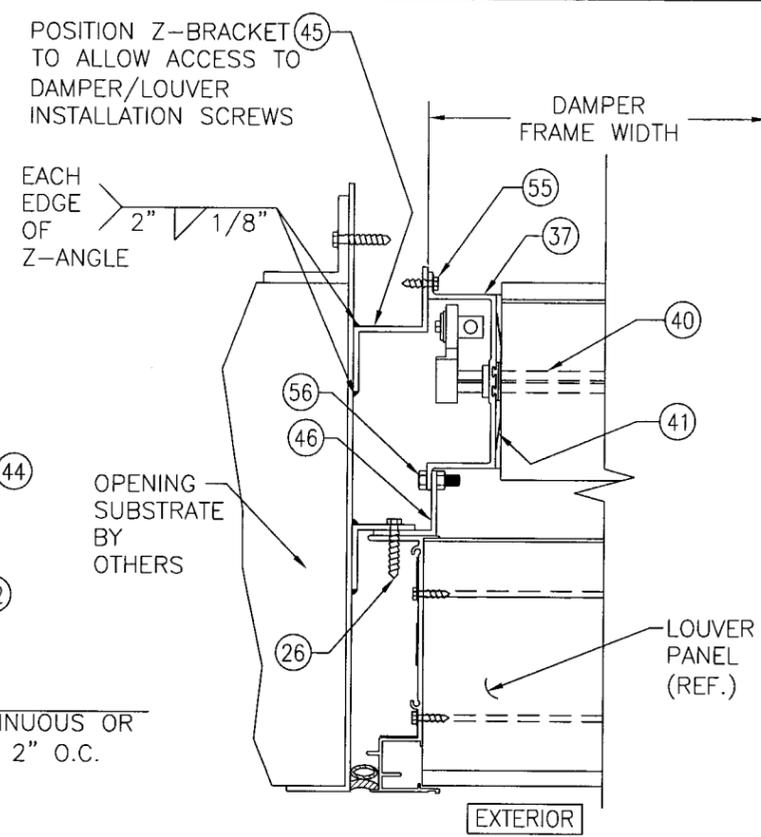
PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 08-1224.02 Expiration Date: 04/22/2014

By Miami Dade Product Control Division

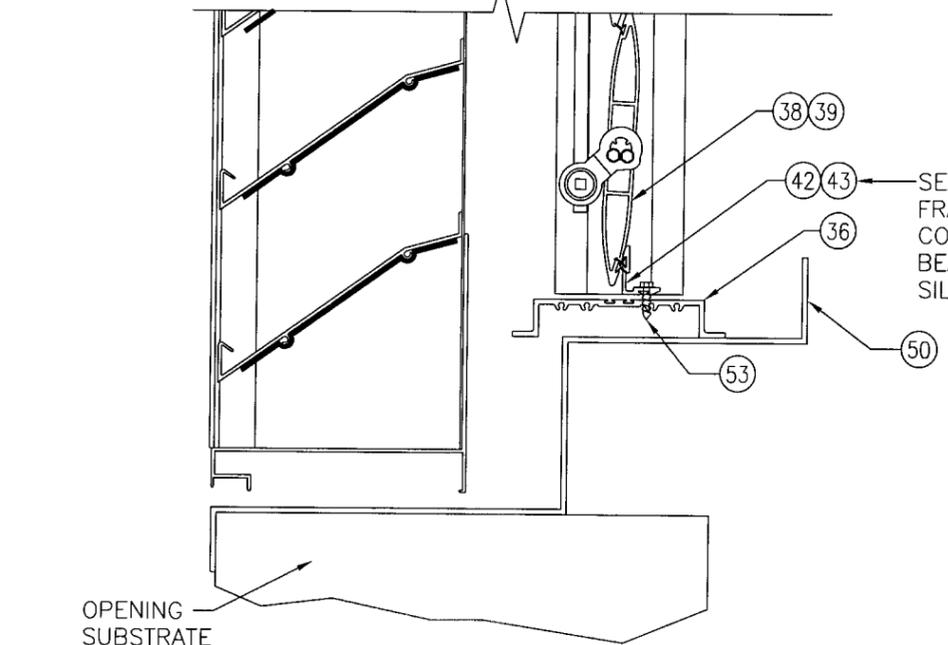
DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 04/03/03	
DATE	BY	NO.	DESCRIPTION
08/22/05	W.W.S.	A4	REDUCED INSTALLATION SCREW SPACING
DRAWING TITLE: LE-32 LOUVER SYSTEM			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.			
MANUFACTURER: AMERICAN WARMING & VENTILATING			
7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000			
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION	DEC 17 2008	DRAWING NO.	REV.
		1217	A
		SHEET NO. 13 OF 15	



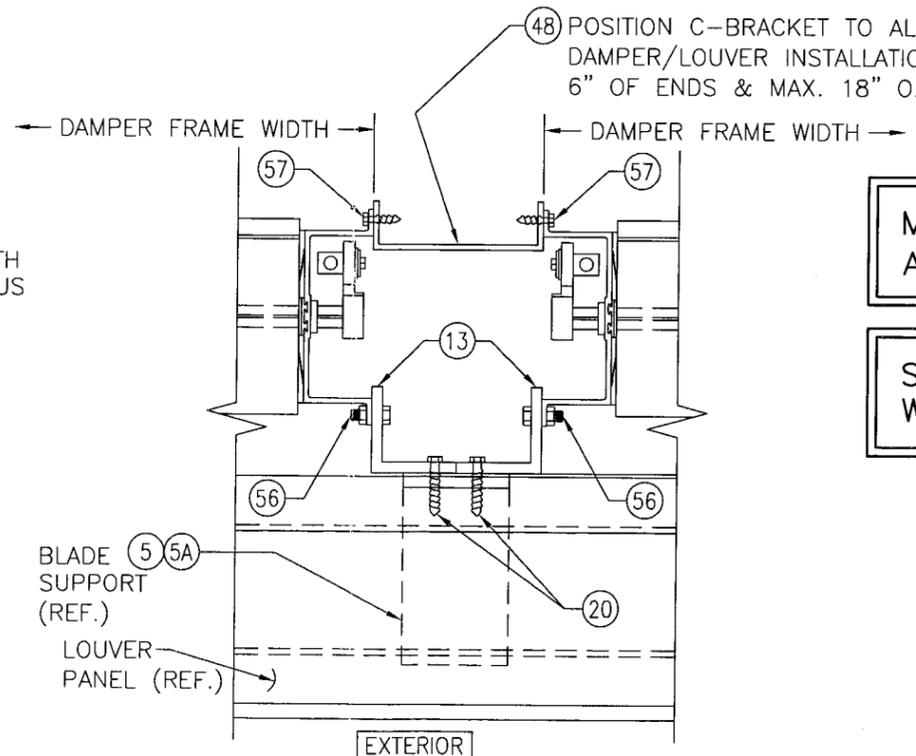
VERTICAL CROSS SECTION WITH AFD-20 DAMPER WHEN LOUVER MULLION EXISTS
 (FOR DAMPER DETAIL NOT SHOWN, SEE OTHER VERTICAL CROSS SECTION ON THIS SHEET)



HORIZONTAL CROSS SECTION AFD-20 DAMPER DETAIL



VERTICAL CROSS SECTION WITH AFD-20 DAMPER WHEN NO LOUVER MULLIONS EXIST
 (DAMPER OPERATOR NOT SHOWN, IS PART OF THIS APPROVAL)



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)

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
 Acceptance No. 08-1224.02
 Expiration Date 08/22/2014
 By *[Signature]*
 Miami Dade Product Control Division

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 12/03/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE LE-32 LOUVER SYSTEM	
MANUFACTURER AMERICAN WARMING & VENTILATING 7301 INTERNATIONAL DRIVE HOLLAND, OHIO 43528 419-865-5000	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION	DEC 7 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1217	REV.
SHEET NO. 14 OF 15	

