



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**Greenheck Fan Corporation
P.O. Box 410
Schofield, WI 54476-0410**

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: Aluminum Louver Model ESS-501D.

APPROVAL DOCUMENT: Drawing No. **A1, D1 & D2**, titled "ELEVATIONS & DETAILS ESS-501D METRO DADE LOUVERS" dated 11/09/98 with last revision on 10/13/05, prepared by Greenheck, signed and sealed by L. D. Rice P.E., bearing the Miami-Dade County Product Control Approval stamp with the NOA number and approval 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 or MDCPCA", 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 is a private Label of NOA # 05-0912.12 and consists of this page 1, evidence page as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font PE.**

[Handwritten Signature]
12/15/05

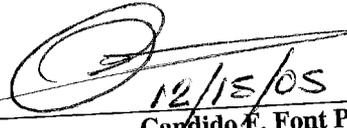


**NOA No: 05-0912.13
Expiration Date: July 06, 2008
Approval Date: December 15 2005
Page 1**

Greenheck Fan Corporation.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS.**
1. Drawing prepared by Greenheck titled "Elevations & Details ESS-501D Metro Dade Louvers," Drawing No. A1, D1 & D2, dated 11/09/98 with last revision on 10/13/05, signed and sealed by L. D. Rice, PE.
- B. TESTS.**
1. Test report on Large Missile Impact Test per PA 201, Cyclic Wind Pressure Test per PA 203 and Uniform Static Air Pressure Test per PA 202 of "K/CB605 Louvers for the American Airline Arena", prepared by Architectural Testing, Inc., report No. 01-34323.01, dated 04/15/99, signed and sealed by A. N. Reeves, PE
- C. CALCULATIONS.**
1. Structural Load Calculations for American Airlines Arena with documentation prepared by Airolite Architectural Louvers, Grilles & Sun Controls sheet 1 through 25 of 25, signed and sealed by J. F. Bir, PE on 05/11/99
- D. QUALITY ASSURANCE.**
1. Building Code Compliance Office
- E. STATEMENTS**
1. Code compliance letter issued by D. G. Farabaugh, PE on 05/08/00, signed and sealed by D. G. Farabaugh on 05/08/00, PE.
 2. No change letter issued by The Airolite Co. on 05/29/03 and signed by Randal Geedey.
 3. Assets Purchase Agreement between The Airolite Company, Louv-Aire Inc. and The Airolite Company LLC dated 06/30/04, signed by R. A. Greenheck and Leigh Murray.
 4. Private Label Agreement between The Airolite Company LLC and Greenheck Fan Corporation signed by R. Greenheck and P. Neitzel and notarized by K.K. Steffek.

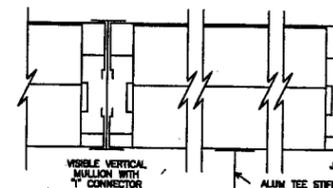

12/15/05
Candido F. Font PE.
Sr. Product Control Examiner
NOA No 05-0912.13
Expiration Date: July 06, 2008
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GENERAL NOTES:

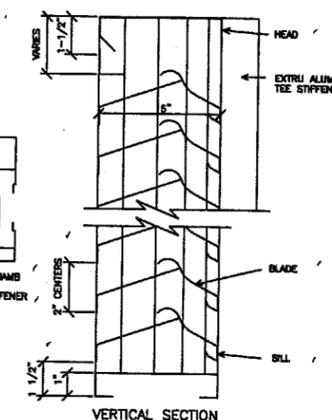
- 1) MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 72" WITH OUT STIFFENER AND 144" WITH STIFFENER.
- 2) THE MAXIMUM DESIGN PRESSURE RATING IS ± 110 PSF
- 3) THIS SYSTEM HAS NOT BEEN TESTED FOR WATER INFILTRATION RESISTANCE AND IS NOT A WATER RESISTANT SYSTEM.
- 4) THE LOUVERS, FRAMES, HARDWARE/FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THESE DRAWINGS.
- 5) THESE LOUVER ARE TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVERS IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.

MATERIALS
LOUVER TYPE
ESS-501D
SIGHTPROOF BLADE LOUVER

MATERIAL: EXTRUDED ALUMINUM (ALLOY 6105-T5)
 BLADE: 0.081" (2.06mm)
 FRAME: 0.081" (2.06mm)
 LOUVER DEPTH: 5" (127.0mm)
 BLADE ANGLE: 19°



HORIZONTAL SECTION



VERTICAL SECTION

BLADES SHALL BE JOINED TO EACH JAMB FRAME AND VERTICAL STIFFENING MEMBER WITH TWO FILLET WELDS EACH 1" (25.4mm) LONG PRODUCED WITH THE PULSED GAS METAL ARC WELDING PROCESS (GMAW/MIG) WITH A MINIMUM 0.125" (3.18mm) THROAT. FRAMES SHALL BE JOINED AT EACH CORNER WITH FULL-LENGTH GMAW FILLET WELDS WITH A MINIMUM 0.125" (3.18mm) THROAT. MANUFACTURER SHALL SUBMIT THEORETICAL CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER SPECIALIZING IN THE APPLICATION OF WELDING TECHNOLOGY DEMONSTRATING THAT EACH WELD WILL WITHSTAND A MINIMUM 525 POUNDS OF FORCE IN SHEAR.
 LOUVERS SHALL BE FACTORY PRIMED AND FINISHED-AFTER-ASSEMBLY WITH A KYNAR 500 (PVF₂) RESIN COATING IN A COLOR SELECTED FROM THE MANUFACTURERS STANDARD COLOR CHART.

FASTENER INDEX

- F1-#10 x 5/8" long stainless steel indented hex head thread cutting screw, natural mill.
- F8-1/4"-2 1/4" Hilti stainless steel sleeve anchor, 1 1/8" min embed depth.
- F9-1/4"-20 x 3/4" stainless steel thread cutting screw.
- F10-1/4"-20 x 1" lg stainless steel indented hex head thread cutting screw.

CLIP INDEX

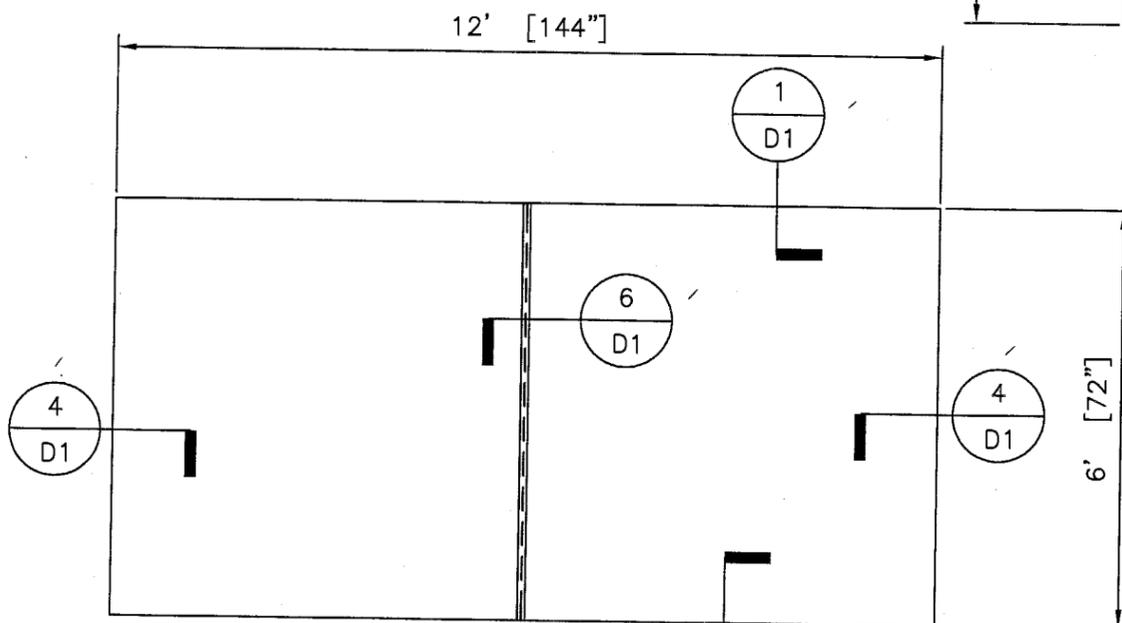
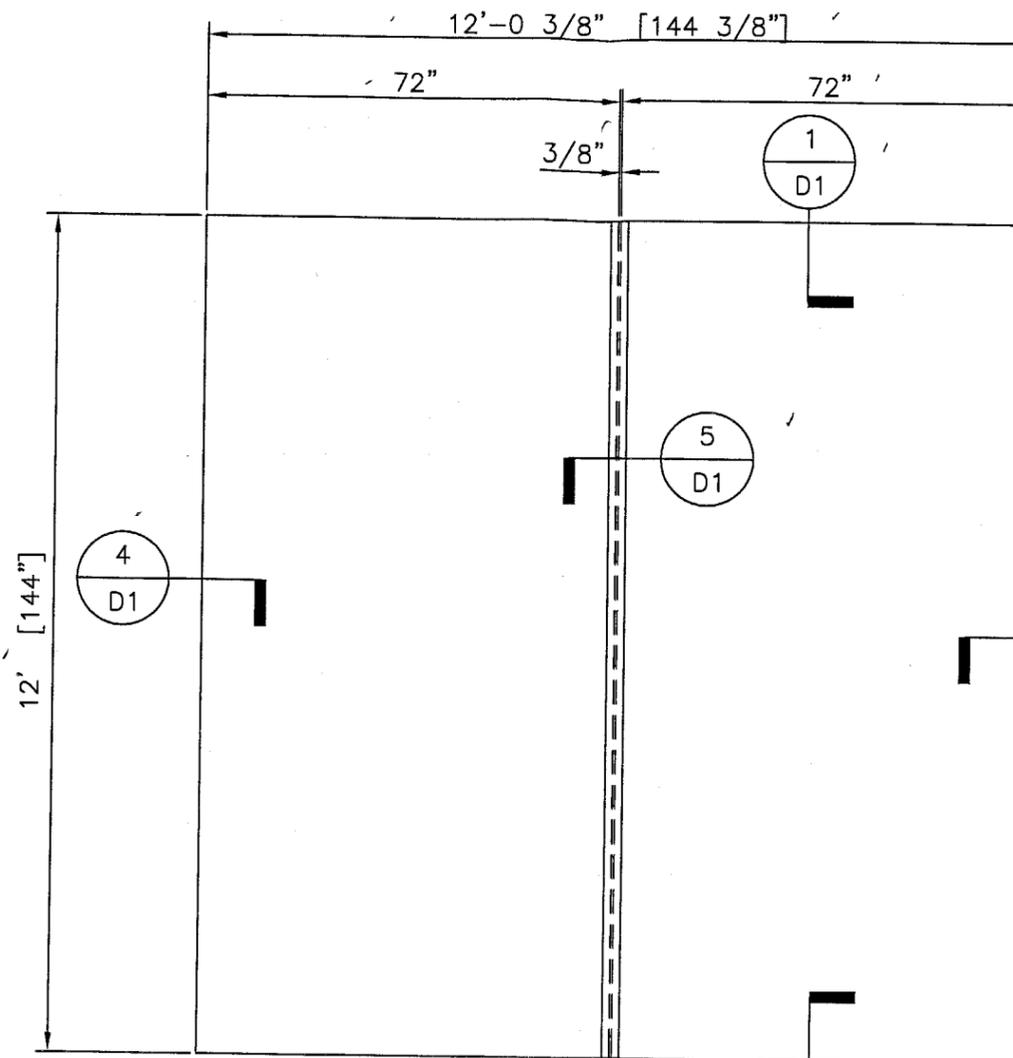
- C1-1 1/4" x 1 1/2" x 1 1/2" long 0.125 aluminum clip angle, alloy 6105-T5, natural mill.
- C2-1 1/4" x 1 1/2" continuous 0.125 aluminum angle, alloy 6105-T6, natural mill.
- C12-4" x 6" x 5" long 5/16" steel clip angle, primecoat, shipped loose.
- C13-4" x 6" x 12" long 5/16" steel clip angle, primecoat, shipped loose.

FINISH SCHEDULE

- (A) KYNAR 500 (SPECIFY COLOR)

MISCELLANEOUS INDEX

- M10-2" x .087# extruded aluminum "I" beam, alloy 6061-T6, PART# 013550.



1 LOUVER ELEV.
 ITEM SHORT LOUVER LAYOUT

2 LOUVER ELEV.
 ITEM LONG LOUVER LAYOUT

Approved as complying with the Florida Building Code
 Date 12/15/05
 NOAA 05-09-12-13
 Miami Dade Product Control Division
 By [Signature]

This Certification is limited to the structural design of structural components of this louver system. It does NOT include responsibility for:
 • Design of air and water infiltration prevention.
 • The manufacture, assembly, or installation of the system.
 • Quantities of materials or dimensional accuracy of drawings

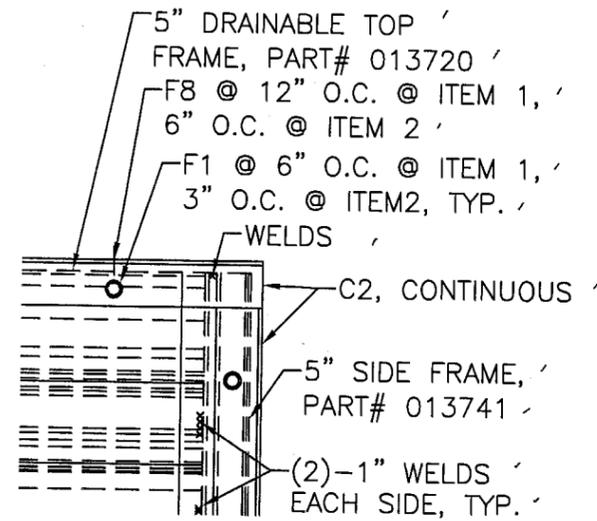
L. DAVID RIC

ABBREVIATIONS
 NSA.....NOT BY AROULITE
 LW.....LOUVER WIDTH
 LH.....LOUVER HEIGHT
 GW.....GRILLE WIDTH
 GH.....GRILLE HEIGHT
 SW.....SECTION WIDTH
 SH.....SECTION HEIGHT
 EC.....ELEVATION
 CL.....COLUMN LINE
 RO.....ROUGH OPENING

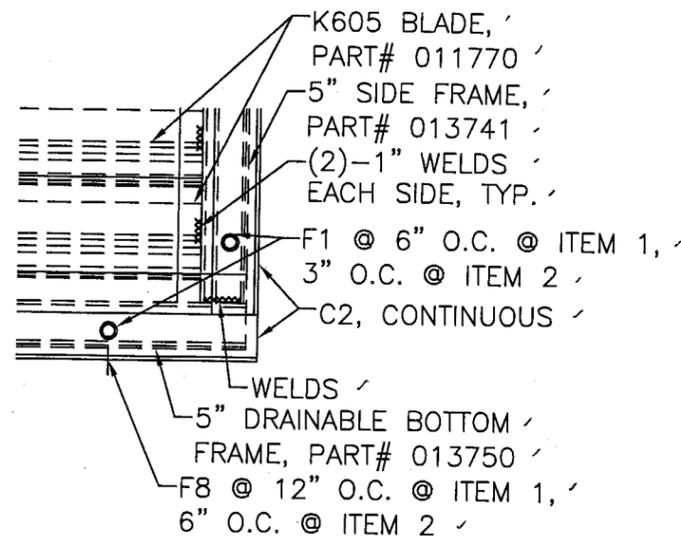
REVISION OR ISSUE	DESCRIPTION	DATE	BY
9	ENLARGED PD TEXT & REMOVED PROP. BLOCK	10/13/05	AK
8	ADDED NEW LOGO	8/4/05	BRS
7	ADDED NOTE 5	5/19/03	JDM
6	ADDED REQUESTED NOTES	5-22-00	BDM
5	ADDED REQUESTED NOTES	4-14-00	BDM
4	CLARIFIED DRAWING	04/13/99	JLC
3	CLARIFIED DRAWING	04/07/99	JLC
2	CLARIFIED DRAWING	03/25/99	JLC
1	CLARIFIED DRAWING	02/11/99	JLC



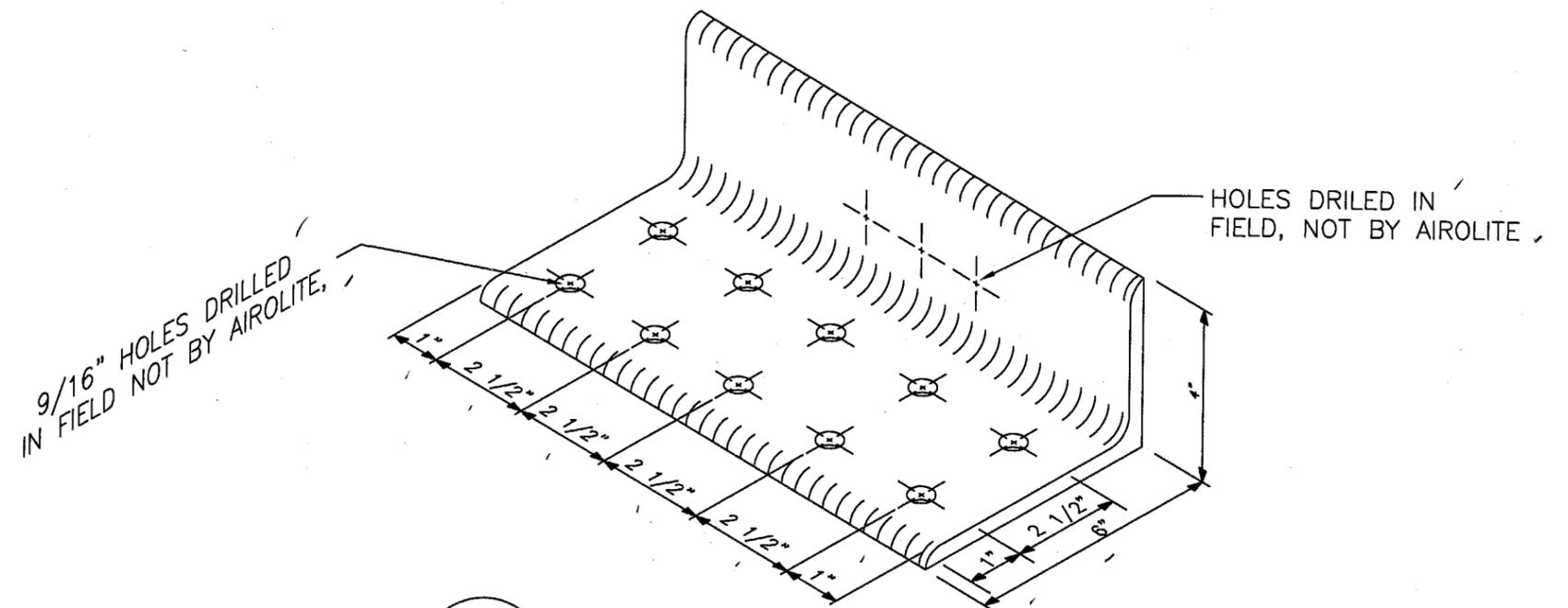
DRAWING TITLE: ELEVATIONS ESS-501D MIAMI DADE LOUVERS		ORDER NO.	DRAWING NO.
PROJECT:			
LOCATION:			
ARCHITECT:			
CUSTOMER:			
CUSTOMER PO#:			
SALES REP:			
DATE: 11/09/98	SPEC. SECTION:		
B-SIZE SCALE: NONE	DWN BY: JLC		
D-SIZE SCALE: NONE	CHK'D BY:		



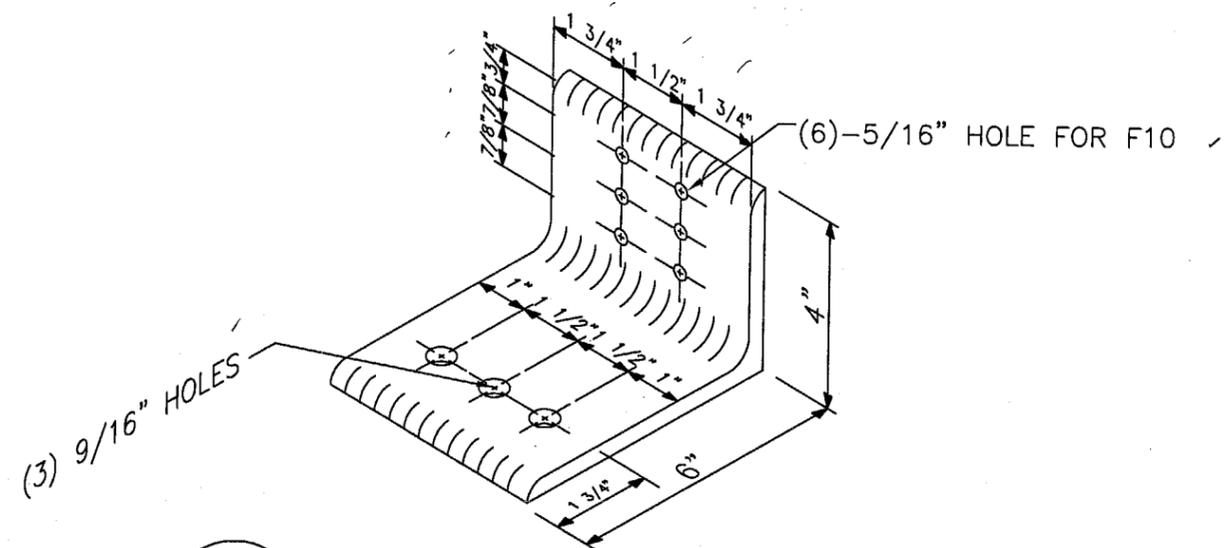
INTERIOR HEAD & JAMB CONNECTION



INTERIOR SILL & JAMB CONNECTION



7 C13-ISOMETRIC
 D1 4" x 6" x 12" LG. 5/16" STEEL. ANGLE
 PRIME COAT, SHIPPED LOOSE



8 C12-ISOMETRIC
 D1 4" x 6" x 5" LG. 5/16" STEEL. ANGLE
 PRIME COAT, SHIPPED LOOSE

Approved as complying with the Florida Building Code
 Date 12/15/05
 NOA# 05-09/2.13
 Miami Dade Product Control
 Division
 By

REVISION OR ISSUE	DESCRIPTION	DATE	BY
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3	CLARIFIED DRAWING	04/07/99	JLC
2	CLARIFIED DRAWING	03/25/99	JLC
1	CLARIFIED DRAWING	02/11/99	JLC



DRAWING TITLE: DETAILS ESS-501D MIAMI DADE LOUVERS			
PROJECT:			
LOCATION:			
ARCHITECT:			
CUSTOMER:			
CUSTOMER PO#:			
SALES REP:			
DATE: 11/09/98	SPEC. SECTION:	ORDER NO.	DRAWING NO.
B-SIZE SCALE: NONE	DWN BY: JLC		D2'
D-SIZE SCALE: NONE	CHK'D BY:		3 OF 3

This Certification is limited to the structural design of structural components of this louver system. It does NOT include responsibility for:
 • Design of an end use or installation prevention.
 • The manufacture, assembly, or installation of the system.
 • Quantities of materials or dimensional accuracy of drawings.

L. DAVID RICE
 NOV 1 2005

ALL-WELDED ASSEMBLY

ABBREVIATIONS
 NBA.....NOT BY AIROLITE
 LW.....LOUVER WIDTH
 LH.....LOUVER HEIGHT
 GW.....GRILLE WIDTH
 GH.....GRILLE HEIGHT
 SW.....SECTION WIDTH
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