

Aire Technologies, Inc. 1502 Industrial Drive Monongahela, PA 15063

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 DC-638 6" Deep Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **08-00626**, titled "DC-638 Louver System – Large and Small Missile Impact", sheets 1 through 10 of 10, dated 10/07/2008, with revision B dated 10/09/2024, prepared by L. Roberto Lomas, P.E., signed and sealed by Luis R. Lomas, P.E. on 10/09/2024, bearing the Miami–Dade County Product Control Section revision stamp with the Notice of Acceptance number and expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", is to be located on each unit.

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

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

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

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

This NOA **revises NOA #20-0305.03** and consists of this page 1, evidence pages E-1 and E-2, as well as the approval document mentioned above.

The submitted documentation was reviewed by Sifang Zhao, P.E.



6.2.

01/02/2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA#20-0305.03

A. DRAWINGS

 Drawing No. 08-00626, titled "DC-638 Louver System – Large and Small Missile Impact", sheets 1 through 10 of 10, dated 10/07/2008, prepared by L. Roberto Lomas, P.E., signed and sealed by Luis R. Lomas, P.E. on 09/30/2020.

B. TESTS

- **1.** Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
 - 2) Large Missile Impact Test per FBC, TAS 201-94

3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of DC-638 Aluminum Louvers, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-4172-01**, dated 03/20/2020, signed and sealed by Douglas J. McDougall, P.E.

C. CALCULATIONS

1. Anchoring structural calculations dated 06/24/2020, prepared by L. Roberto Lomas, P.E., signed and sealed by Luis R. Lomas, 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 conformance to 6th Edition (2017) and 7th Edition (2020) and of no financial interest, dated 06/24/2020, issued by L. Roberto Lomas, P.E., signed and sealed by Luis R. Lomas, P.E.

Sifang Zhao, P.E. Product Control Examiner NOA No. 24-1101.04 Expiration Date: November 25, 2025 Approval Date: January 02, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **08-00626**, titled "DC-638 Louver System – Large and Small Missile Impact", sheets 1 through 10 of 10, dated 10/07/2008, with revision B dated 10/09/2024, prepared by L. Roberto Lomas, P.E., signed and sealed by Luis R. Lomas, P.E. on 10/09/2024.

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 conformance to **FBC 8th Edition** (2023) and of no financial interest, dated 10/09/2024, issued by L. Roberto Lomas, P.E., signed and sealed by Luis R. Lomas, P.E.

G. OTHERS

 This NOA revises Notice of Acceptance No. 20-0305.03, issued to Aire Technologies, Inc. for their Model DC-638 6'' Deep Aluminum Louver, approved on 11/25/2020, expiring on 11/25/25 for FBC 8th Edition (2023) update.

Sifang Zhao, P.E. Product Control Examiner NOA No. 24-1101.04 Expiration Date: November 25, 2025 Approval Date: January 02, 2025

B REVISED NOTE 1 10/09/2024 R.L. STALLATION ANCHORS USING LOAD BEARING SHIMS. MAX. SE SHIMS WHERE SPACE GREATER THAN 1/16" IS E/GROUT FILLED MASONRY USING 3/8" HILTI KWIK BOLT 3 TO ACHIEVE A 3 1/2" MINIMUM EMBEDMENT WITH A 3 CLIPS PER ELEVATION AND INSTALLATION DETAILS. D FRAMING USING 7/16" LAG BOLTS AT EACH CLIP WITH 2" MINIMUM EMBEDMENT. LOCATE CLIPS PER ELEVATION DSION RESISTANT. LED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S RS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS CIFIED BELOW G=0.50 MPRESSIVE STRENGTH OF 3,000 PSI.	B REVISED NOTE 1 10/09/2024 R.L. STALLATION ANCHORS USING LOAD BEARING SHIMS. MAX. ISE SHIMS WHERE SPACE GREATER THAN 1/16" IS E/GROUT FILLED MASONRY USING 3/8" HILTI KWIK BOLT 3 TO ACHIEVE A 3 1/2" MINIMUM EMBEDMENT WITH A 3 CLIPS PER ELEVATION AND INSTALLATION DETAILS. D FRAMING USING 7/16" LAG BOLTS AT EACH CLIP WITH '2" MINIMUM EMBEDMENT. LOCATE CLIPS PER ELEVATION DSION RESISTANT. LLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S DRS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS COFIED BELOW 'G=0.50 MPRESSIVE STRENGTH OF 3,000 PSI. TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER). SIGNED: 10/09/2024 TECHNOLOGIES, INC. 02 INDUSTRIAL DRIVE DNONGAHELA, PA 15063 -638 LOUVER SYSTEM	1			-	í	
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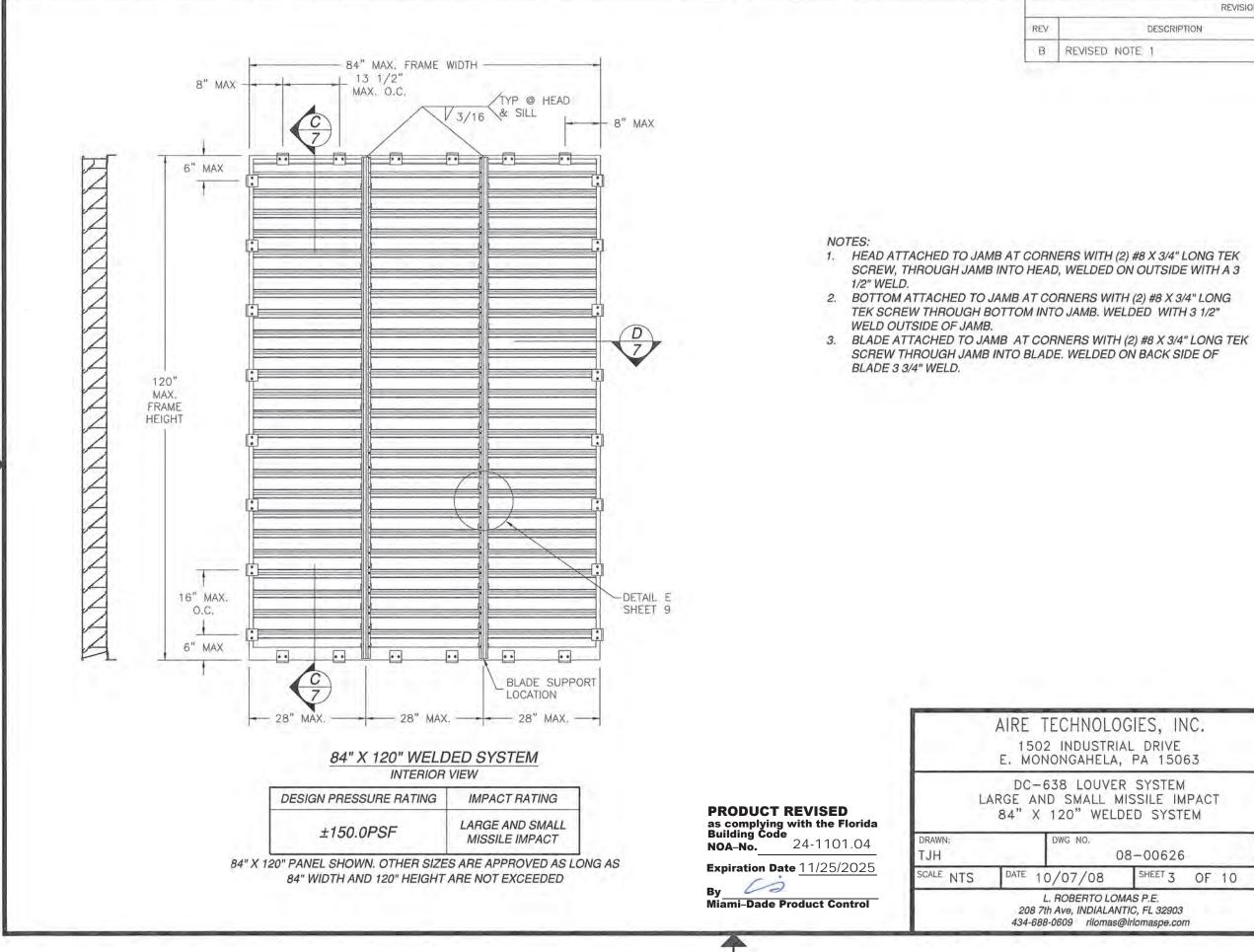
GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN REQUIREMENTS OF THE FLORID.
- 2. WOOD BUCK OR STUD FRAMIN ALL LOADS TO STRUCTURE, BU RECORD.
- 3. APPROVED IMPACT PROTECTIVE BORNE DEBRIS REGIONS._SEE
- 4. ISOLATE ALL SUBSTRATE ANCHO MASONRY/CONCRETE SUBSTRAT
- 5. ALLOWABLE STRESS INCREASE SHOWN HEREIN. WIND LOAD DU CALCULATIONS.
- 6. THIS SYSTEM WAS NOT TESTED WHERE PENETRATION RESISTANC

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HEREIN IS DESIGNED AND MA FLORIDA BUILDING CODE 8TH FRAMING TO BE DESIGNED AI JRE, BUCK OR FRAMING IS R TECTIVE SYSTEM IS <u>NOT REQ</u> SSEE DESIGN PRESSURE RA E ANCHOR CLIPS/ ANGLES, F JBSTRATE BY OTHERS. CREASE OF 1/3 WAS NOT US COAD DURATION FACTOR Cd= TESTED FOR WATER INFILTRA ESISTANCE IS NOT REQUIRED.	H EDITION (2023 ND ANCHORED T RESPONSIBILITY (MUIRED. FOR THIS ATINGS SHEETS PART NUMBERS S SED IN THE DES 1.6 WAS USED I ATION AND IT IS	3), INCLUDING THE HVHZ. TO PROPERLY TRANSFER DF ARCHITECT OF 5 PRODUCT IN WIND 2 TO 5. 9, 13, 14 & 21 FROM IGN OF THE PRODUCT FOR WOOD ANCHOR	ALLOWABLE SHIM PRESENT. 2. INSTALL LOUVER S AT EACH CLIP WI 3/4" MINIMUM ED 3. INSTALL LOUVER S SUFFICIENT LENGT AND INSTALLATION 4. ALL ANCHORS/FAS 5. INSTALLATION ANC INSTALLATION INST LESS THAN THE M A. WOOD: MINIMUM	STACK TO BE 1/4". US SYSTEM INTO CONCRETE, ITH SUFFICIENT LENGTH DGE DISTANCE. LOCATE (SYSTEM INTO SYP WOOD TH TO ACHIEVE A 3 1/2 N DETAILS. ASTENERS TO BE CORROS CHORS SHALL BE INSTAL TRUCTIONS, AND ANCHOF MINIMUM STRENGTH SPEC JM SPECIFIC GRAVITY OF	LED IN ACCORDANCE WITH A RS SHALL NOT BE USED IN DIFIED BELOW G=0,50	EATER THAN SING 3/8" H MUM EMBEDN NSTALLATION BOLTS AT CATE CLIPS NCHOR MAN SUBSTRATES	1/16" IS HILTI KWIK BU MENT WITH A I DETAILS. EACH CLIP PER ELEVATI	OLT 3 3 WITH ON
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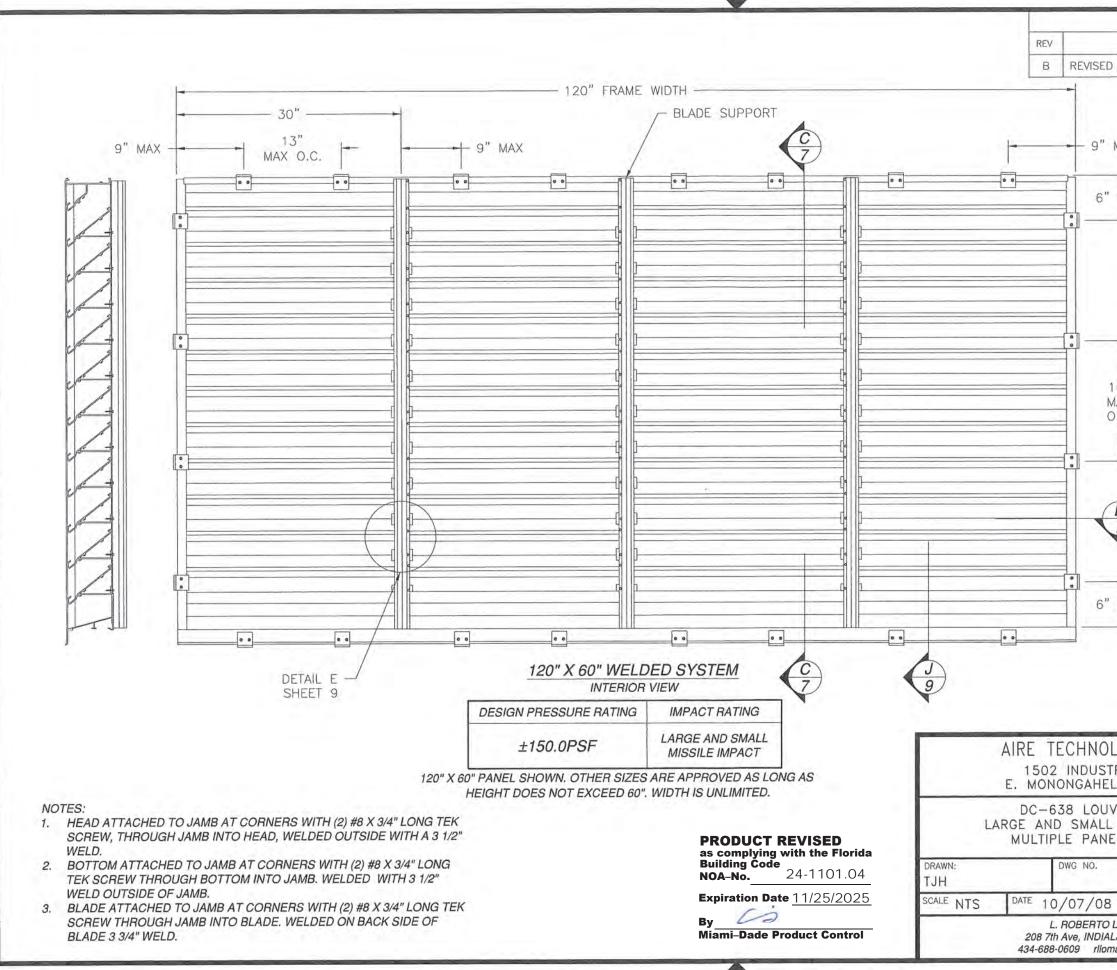
REV B REVIS 48" MAX. FRAME WIDTH 16 1/16" MAX O.C. A 8" MAX - 8" MAX 6 . 0 0 8" MAX NOTES: 1. HEAD ATTACHED TO JAMB AT CORNERS WI SCREW, THROUGH JAMB INTO HEAD. 16" 2. BOTTOM ATTACHED TO JAMB AT CORNERS MAX TEK SCREW THROUGH BOTTOM INTO JAMB. O.C. 48" FRAME HEIGHT (B) 6 8" MAX 00 . . A 6 48" X 48" NO-WELD SYSTEM INTERIOR VIEW DESIGN PRESSURE RATING IMPACT RATING LARGE AND SMALL ±90.0PSF MISSILE IMPACT AIRE TECHN 1502 INDUS E. MONONGAHI 48" X 48" PANEL SHOWN. OTHER SIZES ARE APPROVED AS LONG AS WIDTH DOES NOT EXCEED 48", PANEL HEIGHT IS UNLIMITED DC-638 LO LARGE AND SMAL **PRODUCT REVISED** 48" X 48" NO as complying with the Florida Building Code NOA-No. 24-1101.04 DRAWN: DWG NO. TJH Expiration Date 11/25/2025 SCALE NTS DATE 10/07/0 By Co L. ROBERT Miami-Dade Product Control 208 7th Ave, INDI 434-688-0609 rll

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RIAL DRIVE _A, PA 15063 /ER SYSTEM MISSILE IMPACT	No. 6	LOMAS
RIAL DRIVE A, PA 15063 /ER SYSTEM	No. 6	LOMAS 2514
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RIAL DRIVE A, PA 15063 ER SYSTEM MISSILE IMPACT WELD SYSTEM 08-00626	No. 6	LOMAS 2514 E OF RIDA AL ENGINE



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SHEET 4	OF 10		IIIIII	ALININ
LOMAS P.E.			Luis R. Lo	

REV REVISI В 252" WIDTH TYP @ HEAD 3/16 F 8 Z 120" H MAX. 9 PANEL MANANANAN BLADE F 8 1 84" PANEL WIDTH - 28" MAX -- 28" MAX -— 28" MAX —-SUPPORT 9 LOCATION MULLED SYSTEM INTERIOR VIEW AIRE TECHNO DESIGN PRESSURE RATING IMPACT RATING 1502 INDUS E. MONONGAH LARGE AND SMALL NOTES: ±90.0PSF MISSILE IMPACT DC-638 LOL 1. HEAD ATTACHED TO JAMB AT CORNERS WITH (2) #8 X 3/4" LONG TEK LARGE AND SMAL SCREW, THROUGH JAMB INTO HEAD, WELDED OUTSIDE WITH A 3 1/2" 252" X 120" SYSTEM SHOWN. OTHER SIZES ARE APPROVED AS LONG AS MULTIPLE PAN WELD. HEIGHT DOES NOT EXCEED 120". WIDTH IS UNLIMITED. 2. BOTTOM ATTACHED TO JAMB AT CORNERS WITH (2) #8 X 3/4" LONG TEK SCREW THROUGH BOTTOM INTO JAMB. WELDED WITH 3 1/2" DRAWN: DWG NO. TJH WELD OUTSIDE OF JAMB. 3. BLADE ATTACHED TO JAMB AT CORNERS WITH (2) #8 X 3/4" LONG TEK SCALE NTS DATE 10/07/08 SCREW THROUGH JAMB INTO BLADE. WELDED ON BACK SIDE OF L. ROBERT BLADE 3 3/4" WELD. 208 7th Ave, INDI 434-688-0609 rllc

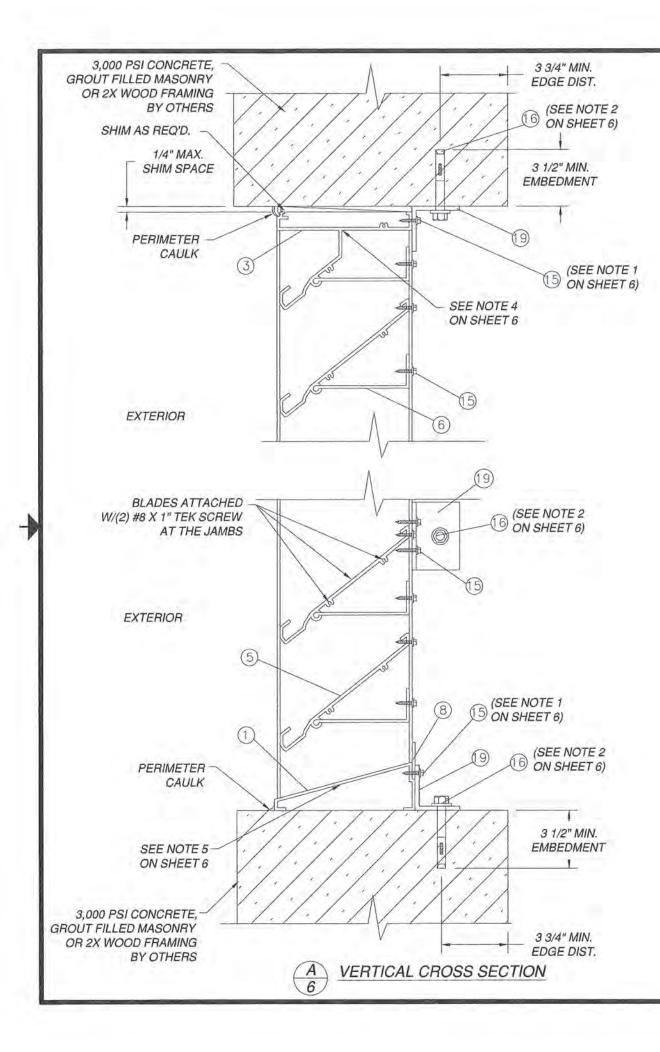
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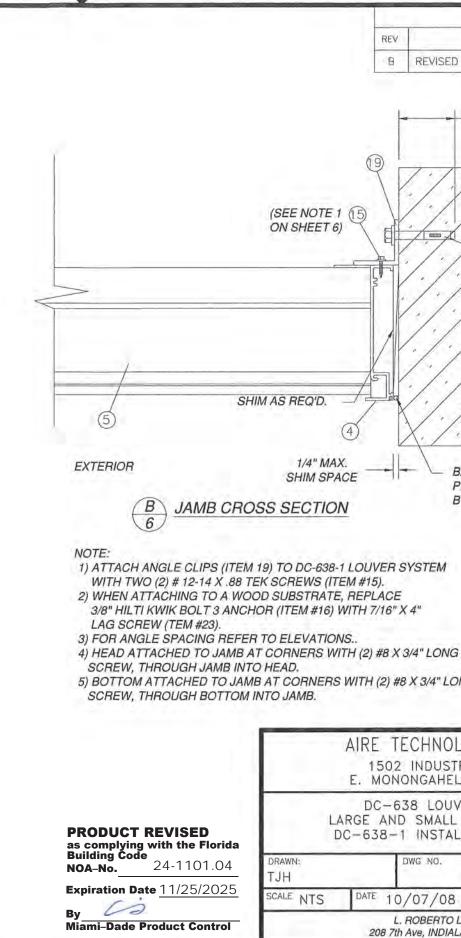
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 24-1101.04

Expiration Date 11/25/2025

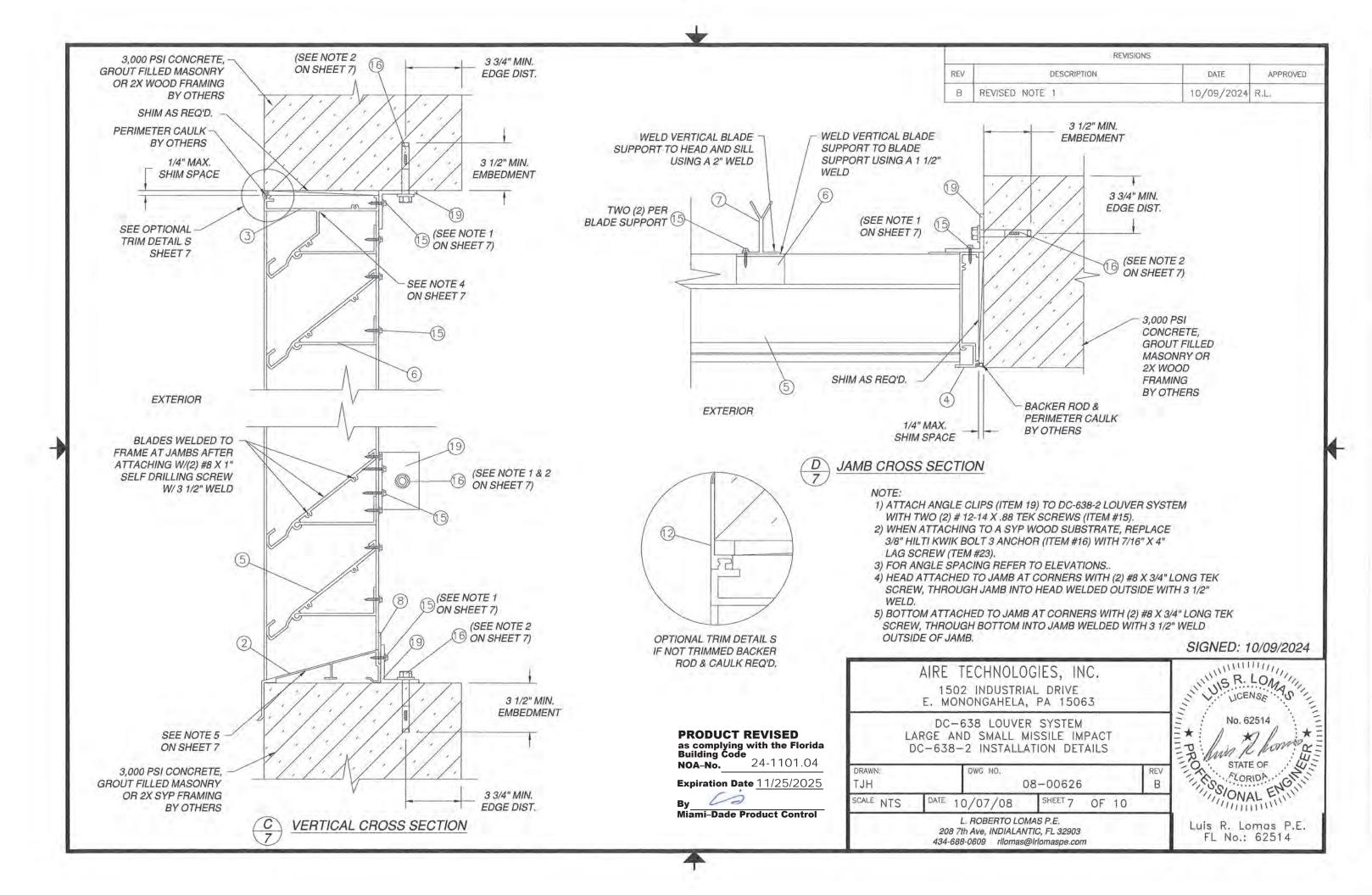
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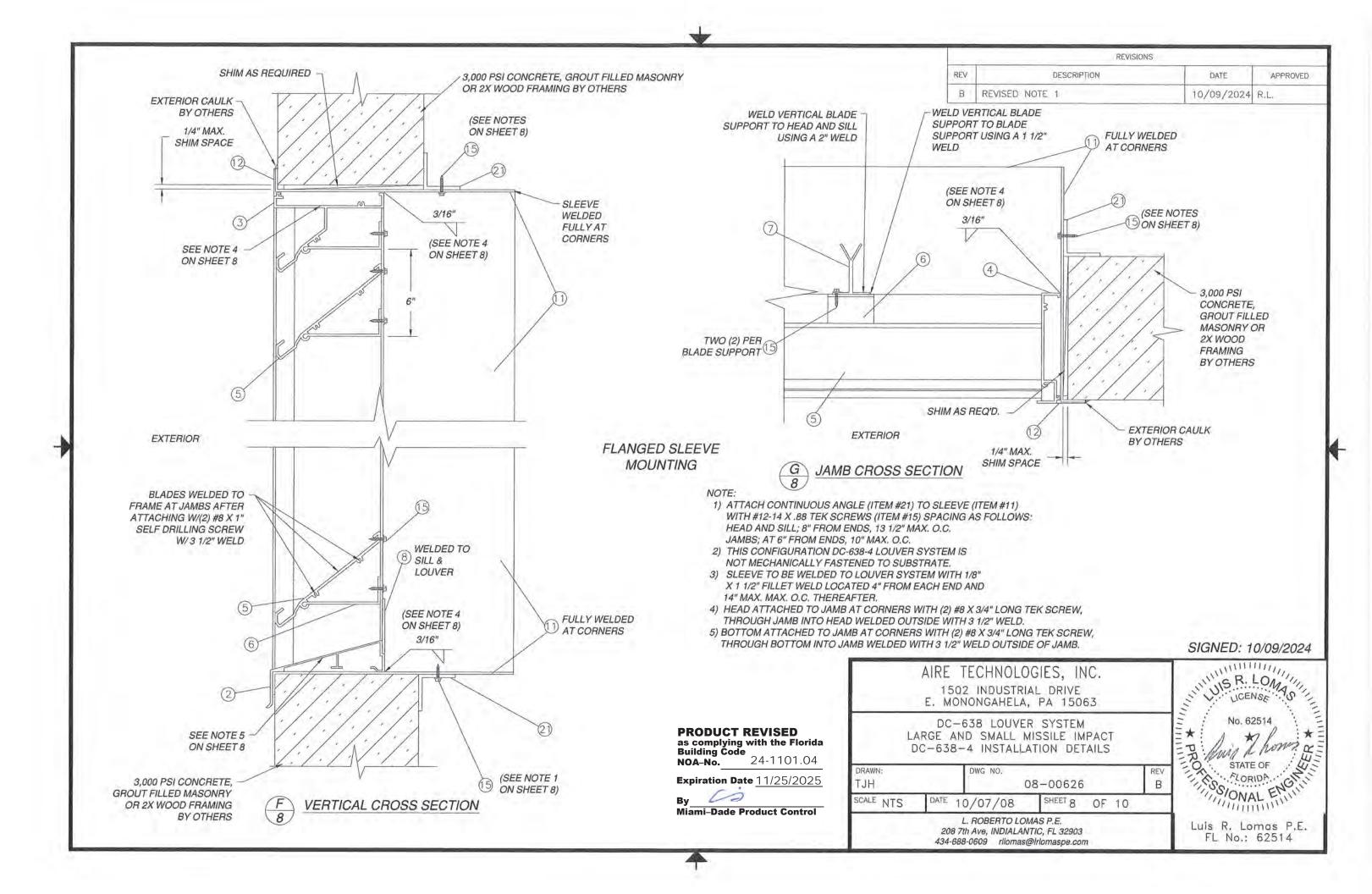
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08-00626 B	STATE OF
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FO LOMAS P.E. DIALANTIC, FL 32903 Iomas@Irlomaspe.com	Luis R. Lomas P.E. FL No.: 62514

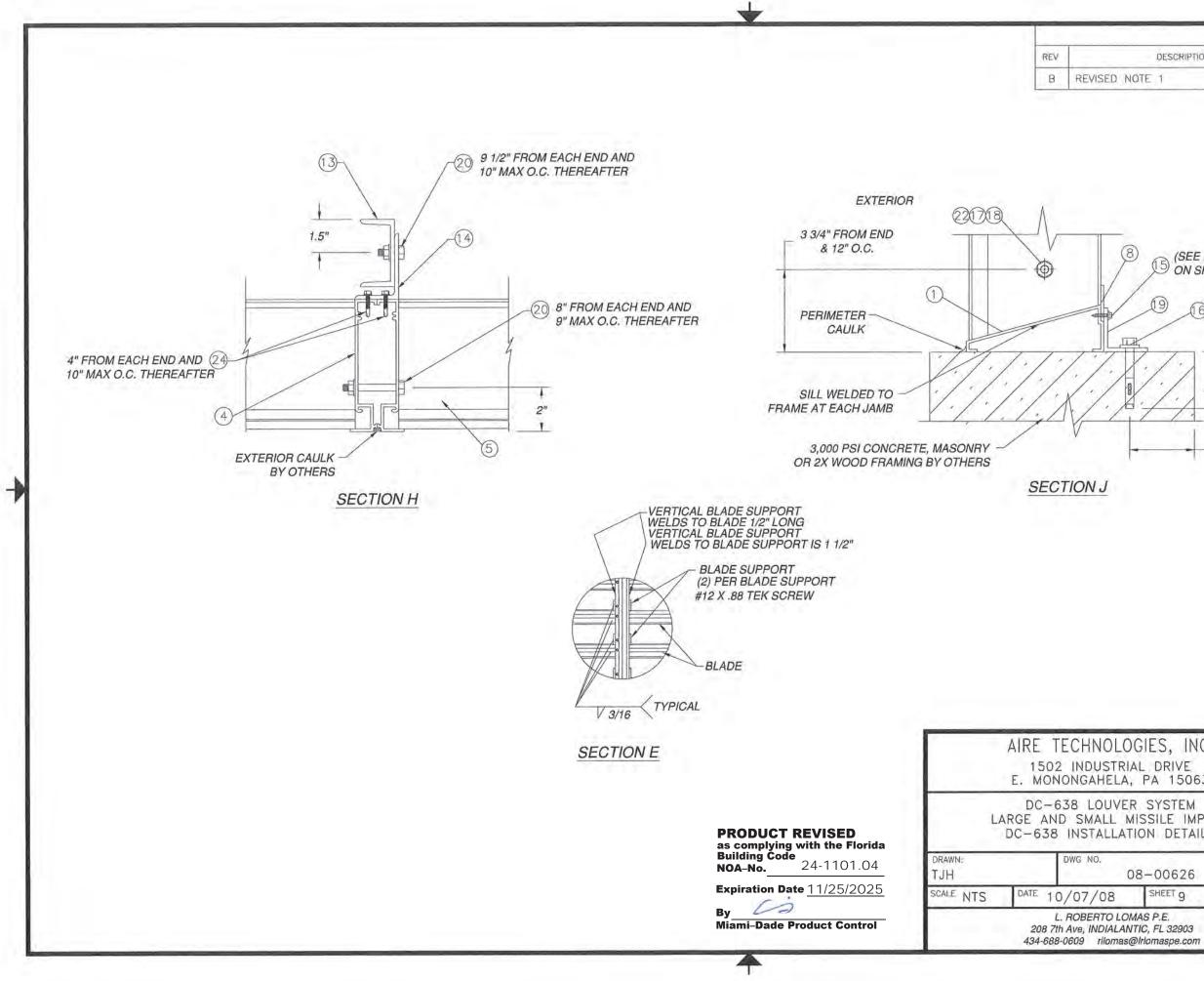




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-638	LOUVER SYSTEM MALL MISSILE IMPACT ISTALLATION DETAILS	No.6	1 hours
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TTO LOMAS P.E. DIALANTIC, FL 32903		Luis R. Lo FL No.:	omas P.E.

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2	22855	SILL/BOTTOM W/LIP	BRT EXTRUSIONS	ALUMINUM 6063-T5					B	REVISED
3	22943	HEAD/TOP	BRT EXTRUSIONS	ALUMINUM 6063-T5						
4	22852 22851	JAMB BLADE	BRT EXTRUSIONS BRT EXTRUSIONS	ALUMINUM 6063-T5 ALUMINUM 6063-T5						
6	22854	BLADE SUPPORT	BRT EXTRUSIONS	ALUMINUM 6063-T5	-	6"				
7	22004	VERTICAL BLADE SUPPORT	BRT EXTRUSIONS	ALUMINUM 6063-T5	÷					
8		SHIM	AIRE TECHNOLOGIES	the second se						
9		2" x 4" x 3/16" ANGLE	AIRE TECHNOLOGIES			2.068		1		1
10	-	SLEEVE	AIRE TECHNOLOGIES							2
11		FLANGE SLEEVE	AIRE TECHNOLOGIES		15			2.063"		
12		OPTIONAL TRIM FLANGE COVER	AIRE TECHNOLOGIES			L/BOTTOM W/O LIP				
13	1.1	C3 X 4.1 CHANNEL		STAINLESS STEEL	TYP	P. WALL THK. 0.125"		T	C C"	
14	11	3" X 2" X 3/16" ALUMINUM ANGLE		ALUMINUM 6063-T5					6.6"	
15	12	#12-14 X .88" TEK SCREW		STAINLESS STEEL					ILL BOTTOM W	
16		3/8" HILTI KWIK BOLT 3	HILTI	STAINLESS STEEL				(2) TY	P. WALL THK. O.).125"
17		3/8" LOCK WASHER		STAINLESS STEEL		- 6"				
18		3/8-16 NUT		STAINLESS STEEL	R					
19		2" X 2" X 3/16" 2 " ANGLE	AIRE TECHNOLOGIES		Lm					
20		5/16" X 1" BOLT & NUT		STAINLESS STEEL	(4)					
21		2" X 2" X 3/16" ANGLE	AIRE TECHNOLOGIES		\bigcirc	JAMB		di .		- 1
22		3/8-16 X 3" BOLT		STAINLESS STEEL	TYP. W	ALL THK. 0.125"		-		
23 24		7/16" X 4" LAG SCREW #12-14 X 1" TEK SCREW	-	STAINLESS STEEL STAINLESS STEEL						27
		William Child					BLAL		and and	5
			(12)	<u>†</u>		- 2" - 2" X 3/16" ANGLE VALL THK. 0.1875"	ТНК. 0.	5	<u>(</u> 6	
		SHIM TYP. WALL HK. 0.1788"	(12) OPTIONAL TRIM FLANGE COVER TYP. WALL THK. 0.0625"	3.6" .9"	2" X	2" X 3/16" ANGLE VALL THK. 0.1875" 12" TO 24" SLEEVE O) TYP. WALL		~ ~	<u> </u>	
	<u> </u>	SHIM TYP. WALL HK. 0.1788" 2.328" 1 1 1 1.2" 60° 1.2" WALL	OPTIONAL TRIM FLANGE COVER TYP. WALL THK. 0.0625"	9"	2"X TYP.V	2" X 3/16" ANGLE WALL THK. 0.1875" 	ED	5 C	AIRE TEC 1502 I E. MONON DC-638 LARGE AND BILL OF MATI	INDUS NGAHE B LOU SMAL
	VERT BLADE S TYP.	SHIM TYP. WALL HK. 0.1788" 2.328" 1 2.328" 1 1 1.2" 60° 1.2" WALL 0.200"	OPTIONAL TRIM FLANGE COVER TYP. WALL THK. 0.0625"	9"	2"X TYP.V	2" X 3/16" ANGLE WALL THK. 0.1875" 12" TO 24" 12" TO 24" SLEEVE TYP. WALL 0.101" THICK PRODUCT REVIS as complying with th Building Code	ED e Florida 01.04	5 DRAWN: TJH	1502 I E. MONON DC-638 LARGE AND BILL OF MATI	INDUS NGAHE B LOU SMAL ERIAL
	VERT BLADE S TYP.	SHIM TYP. WALL HK. 0.1788" 2.328" 1 2.328" 1 1 1.2" 60° 1.2" WALL 0.200"	OPTIONAL TRIM FLANGE COVER TYP. WALL THK. 0.0625"	9"	2"X TYP.V	PRODUCT REVIS as complying with th Building Code NOA-No. 24-11 Expiration Date 11/2	ED e Florida 01.04	5 C	1502 I E. MONON DC-638 LARGE AND BILL OF MATI	INDUS NGAHE B LOU SMAL ERIAL YG NO.
	VERT BLADE S TYP.	SHIM TYP. WALL HK. 0.1788" 2.328" 1 2.328" 1 1 1.2" 60° 1.2" WALL 0.200"	OPTIONAL TRIM FLANGE COVER TYP. WALL THK. 0.0625"	9"	2"X TYP.V	PRODUCT REVIS as complying with th Building Code NOA-No. 24-11 Expiration Date 11/2 By	ED e Florida 01.04 5/2025	5 DRAWN: TJH	1502 I E, MONON DC-638 LARGE AND BILL OF MATI DW DATE 10/0	INDUS NGAHE B LOU SMALI ERIAL VG NO. 07/08
	VERT BLADE S TYP.	SHIM TYP. WALL HK. 0.1788" 2.328" 1 2.328" 1 1 1.2" 60° 1.2" WALL 0.200"	OPTIONAL TRIM FLANGE COVER TYP. WALL THK. 0.0625"	9"	2"X TYP.V	PRODUCT REVIS as complying with th Building Code NOA-No. 24-11 Expiration Date 11/2	ED e Florida 01.04 5/2025	5 DRAWN: TJH	1502 I E, MONON DC-638 LARGE AND BILL OF MATI DW DATE 10/0	INDUS NGAHI B LOU SMAL ERIAL VG NO. 07/0. OBERTO VE, INDI

