

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Energy Labs, Inc. 1695 Cactus Road San Diego, CA 92154

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Air Handling Unit

APPROVAL DOCUMENT: Drawing No. 08-03269, titled "Air Handling Equipment", sheets 1 through 7 of 7, prepared by Luis R. Lomas, P.E., last revision #D, dated 10/11/2021, signed and sealed by Luis R. Lomas, P.E., on 10/11/2021, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the 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, Tijuana, Baja California, Mexico and the 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 #20-0302.01 and consists of this page 1, evidence submitted pages E-1, E-2 & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

Help A. M. W. 12/23/2021

NOA No. 21-1117.05 Expiration Date: 04/16/2025 Approval Date: 12/23/2021

Page 1

Energy Labs, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #14-0616.04

A. DRAWINGS

1. Drawing No. NL-0028, titled "Air Handling Equipment", sheets 1 through 7 of 7, prepared by Luis R. Lomas, P.E., dated 04/13/2014, last revision #A, signed and sealed by Luis R. Lomas, P.E., on 10/23/2014.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94, 3) Cyclic Wind Pressure
per FBC, TAS 203-94 along with marked-up drawings of Air Handling Unit,
prepared by National Certified Testing Laboratories, Test Report No. NCTL-2103856-01, dated 12/03/2013, signed and sealed by Gerard J. Ferrara, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. Die Drawings.

F. STATEMENTS

1. Statement letter of conformance with FBC 2010 Edition, signed and sealed by Luis R. Lomas, P.E.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #17-0608.01

A. DRAWINGS

1. Drawing No. NL-0028, titled "Air Handling Equipment", sheets 1 through 7 of 7, prepared by Luis R. Lomas, P.E., dated 04/13/2014, last revision #B, signed and sealed by Luis R. Lomas, P.E., on 05/12/2017.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. OUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor NOA No. 21-1117.05

Expiration Date: 04/16/2025 Approval Date: 12/23/2021

Energy Labs, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #18-0821.01

A. DRAWINGS

1. Drawing No. 08-03269, titled "Air Handling Equipment", sheets 1 through 7 of 7, prepared by Luis R. Lomas, P.E., last revision #C, dated 05/03/2018, signed and sealed by Luis R. Lomas, P.E., on 06/25/2018.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #20-0302.01

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. OUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 08-03269, titled "Air Handling Equipment", sheets 1 through 7 of 7, prepared by Luis R. Lomas, P.E., last revision #D, dated 10/11/2021, signed and sealed by Luis R. Lomas, P.E., on 10/11/2021.

B. TESTS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 21-1117.05 Expiration Date: 04/16/2025

Approval Date: 12/23/2021

Energy Labs, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- C. CALCULATIONS
 - 1. None.
- D. QUALITY ASSURANCE
 - 1. By Miami-Dade County Department of Regulatory and Economic Resources.
- E. MATERIAL CERTIFICATIONS
 - 1. None.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 21-1117.05 Expiration Date: 04/16/2025 Approval Date: 12/23/2021

NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE, 7TH EDITION INCLUDING THE HVHZ.
- CONCRETE STRUCTURE TO BE DESIGNED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. CONCRETE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 4. ALL FASTENERS TO BE CORROSION RESISTANT.
- RIGID FOAM INSULATION THERMAL AND ACOUSTICAL PROPERTIES MEET 3 POUND DENSITY RATING DUAL DENSITY ASSEMBLY MEETS EROSION REQUIREMENTS OF UL 181 FACING AIRSTREAM AND FIRE HAZARD CLASSIFICATION OF 25/50 (PER ASTM E84 AND UL723).
- 6. STANDARD INNER CASING PANELS ARE SOLID 0.040" ALUMINUM 3003 OR 5052, 20GA 304/316 STAINLESS STEEL, OR 20GA GALVANIZED STEEL (MIN) WHICH MAY BE USED IN ANY COMBINATION AS REQUIRED THROUGHOUT AIR HANDLER UNIT CASING.
- 7. STANDARD OUTER CASING PANELS ARE SOLID 0.050" ALUMINUM 3003 OR 5052, 18GA 304/316 STAINLESS STEEL, OR 18GA GALVANIZED STEEL (MIN) WHICH MAY BE USED IN ANY COMBINATION AS REQUIRED THROUGHOUT AIR HANDLER UNIT CASING.
- 8. OUTER ANGLES ARE 5 1/2" X 5 1/2". INNER ANGLES ARE 1 1/2" X 1 1/2".
- 9. CONNECT OUTSIDE WALL TO BASE FRAME USING 7/8" X 1 3/8" 14GA GALVANIZED, OR 304/316 S.S. ANGLE.
- 10. CONNECT INSIDE WALL TO BASE FRAME USING 2" X 3" 14GA GALVANIZED, OR 304/316 S.S. ANGLE.
- 11. ALL JOINTS OF STRUCTURAL STEEL MEMBERS ARE CONTINUOUSLY ARC WELDED.
- 12. UNIT BASE AND CROSS MEMBERS ARE FULLY WELDED TO STRUCTURAL C-CHANNELS CROSS MEMBERS ARE LOCATED 24" MAX O.C.
- 13. FLOOR PANELS ARE 14GA GALVANIZED STEEL BRIGHT OR 304/316 SS, MAXIMUM FLOOR PANEL WIDTH IS 24".
- 14. ANCHORING OF BASE TO BUILDING IS NOT PART OF THIS APPROVAL AND IT IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.

REVISIONS					
REV	DESCRIPTION	DATE	APPROVED		
А	AS REQUESTED PER MIAMI-DADE	9/23/14	R.L.		
В	REVISED NOTE 1 AND ADDRESS	05/12/17	R.L.		
С	ADD STEEL AND CHANGE DWG NUMBER	05/03/18	R.L.		
D	REVISED PER NEW CODE	10/11/2021	R.L.		

SIGNED: 10/11/2021

TABLE OF CONTENTS DESCRIPTION SHEET NO. NOTES 2 PANEL ASSEMBLY 3 - 4BASE CONSTRUCTION 5 DOOR DETAIL CHANNEL DETAIL 6 B.O.M.

ENERGY LABS, INC. 1695 CACTUS ROAD SAN DIEGO, CA 92154 AIR HANDLING EQUIPMENT

PRODUCT REVISED as complying with the Florida

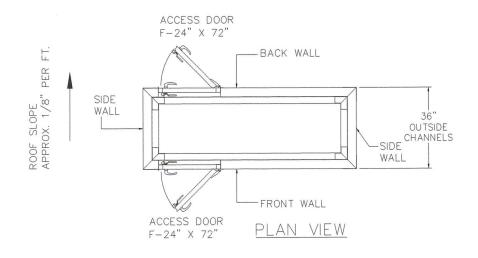
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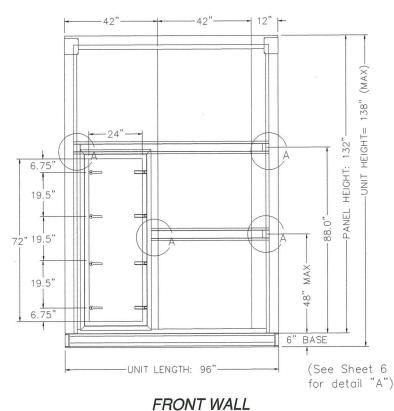
DWG NO. 08-03269 AGR SHEET 1 OF 7 CALE NTS DATE 05/03/18

> L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com

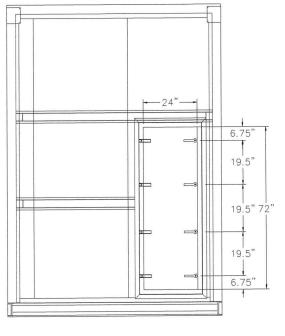
STATE OF SONAL ENTIN FLORIDA ..

Luis R. Lomas P.E. FL No.: 62514





ELEVATION



BACK WALL ELEVATION

	REVISIONS					
REV	DESCRIPTION	DATE APPROVE				
А	AS REQUESTED PER MIAMI-DADE	9/23/14	R.L.			
В	REVISED NOTE 1 AND ADDRESS	05/12/17	R.L.			
С	ADD STEEL AND CHANGE DWG NUMBER	05/03/18	R.L.			
D	REVISED PER NEW CODE	10/11/2021	R.L.			

APPROVED MAX. SIZE FOR PANELS			
EXTERIOR LINER INTERIOR LINER			
.050" ALUMINUM 3003 OR 5052	.040" ALUMINUM 3003 OR 5052		
18GA 304/316 SS	20GA 304/316 SS		
18GA GALVANIZED	20GA GALVANIZED		
42" X 132"	42" X 132"		
12" X 132"	12" X 132"		

FASTENERS

PANELS SEAMS SECURED WITH 1/4" - 14 X 1" SELF DRILLING SCREWS SPACED EVERY 6" O.C. MAX. OUTSIDE THE UNIT PANELS SEAMS SECURED WITH 1/4" - 14 X 1" SELF DRILLING SCREWS SPACED EVERY 8" O.C. MAX. INSIDE THE UNIT

UNIT BASE

FULLY WELDED 6", 8", 10" & 12" STRUCTURAL CHANNEL SPECS STEEL PERIMETER BASE WITH INTERMEDIATE TUBULAR AND CROSS SUPPORT AT 24" O.C. 4" THICK INSULATION FOAM. (FOR REFERENCE SEE SHEET 4 of 7)

UNIT FLOORS

INNER FLOOR IS 14GA, GALVANIZED STEEL BRIGHT OR 304/316 S.S. OUTER FLOOR IS 20GA. GALVANIZED STEEL BRIGHT OR 304/316 S.S.

UNIT FRAME WORK

14GA G-90 PAINTED GALVANIZED STEEL OR 304/316 S.S. HORIZONTAL SUPPORT LOCATED 48" MAX. O.C.

ACCESS DOORS (24" X 72")

INNER	OUTER		
0.040" MIN. ALUMINUM 3003	0.050" MIN. ALUMINUM 3003		
20GA MIN. 304/316 S.S.	18GA MIN. 304/316 S.S.		
20GA MIN. GALVANIZED	18GA MIN. GALVANIZED		
LIABBIANDE, AD ILICTADI E NON CO	ADDOCIVE LATCHES		

HARDWARE: ADJUSTABLE NON-CORROSIVE LATCHES

SIGNED: 10/11/2021

AIR HANDLING ASSEMBLY

WALL PANEL RATING

DESIGN PRESSURE RATING	IMPACT RATING		
±100.0PSF	LARGE AND SMALL MISSILE IMPACT		

ROOF PANEL RATING

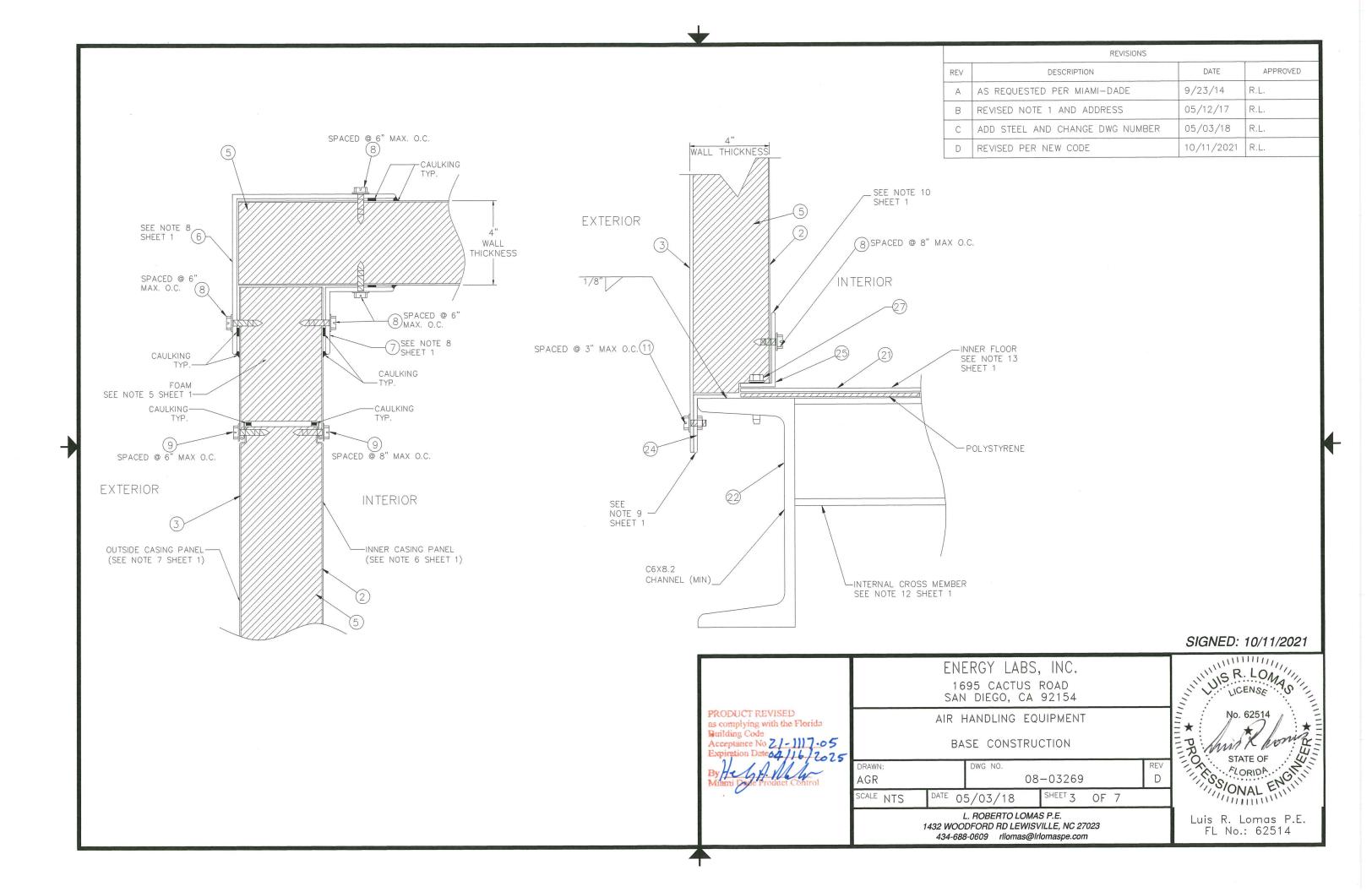
DESIGN PRESSURE RATING	IMPACT RATING		
±50.0PSF	LARGE AND SMALL MISSILE IMPACT		

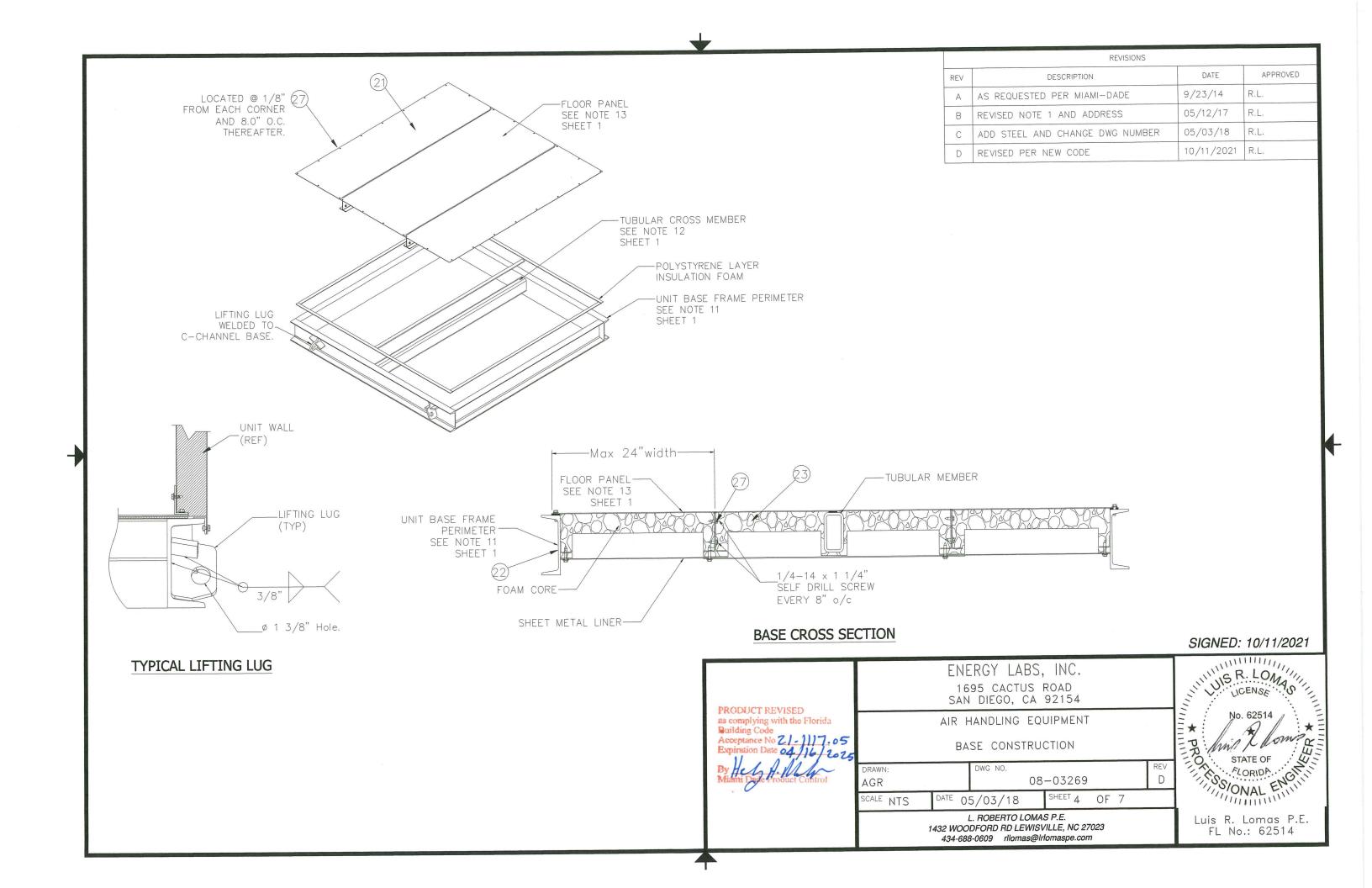
ENERGY LABS, INC. 1695 CACTUS ROAD SAN DIEGO, CA 92154 PRODUCT REVISED AIR HANDLING EQUIPMENT PANEL ASSEMBLY DWG NO. AGR SCALE NTS DATE 05/03/18

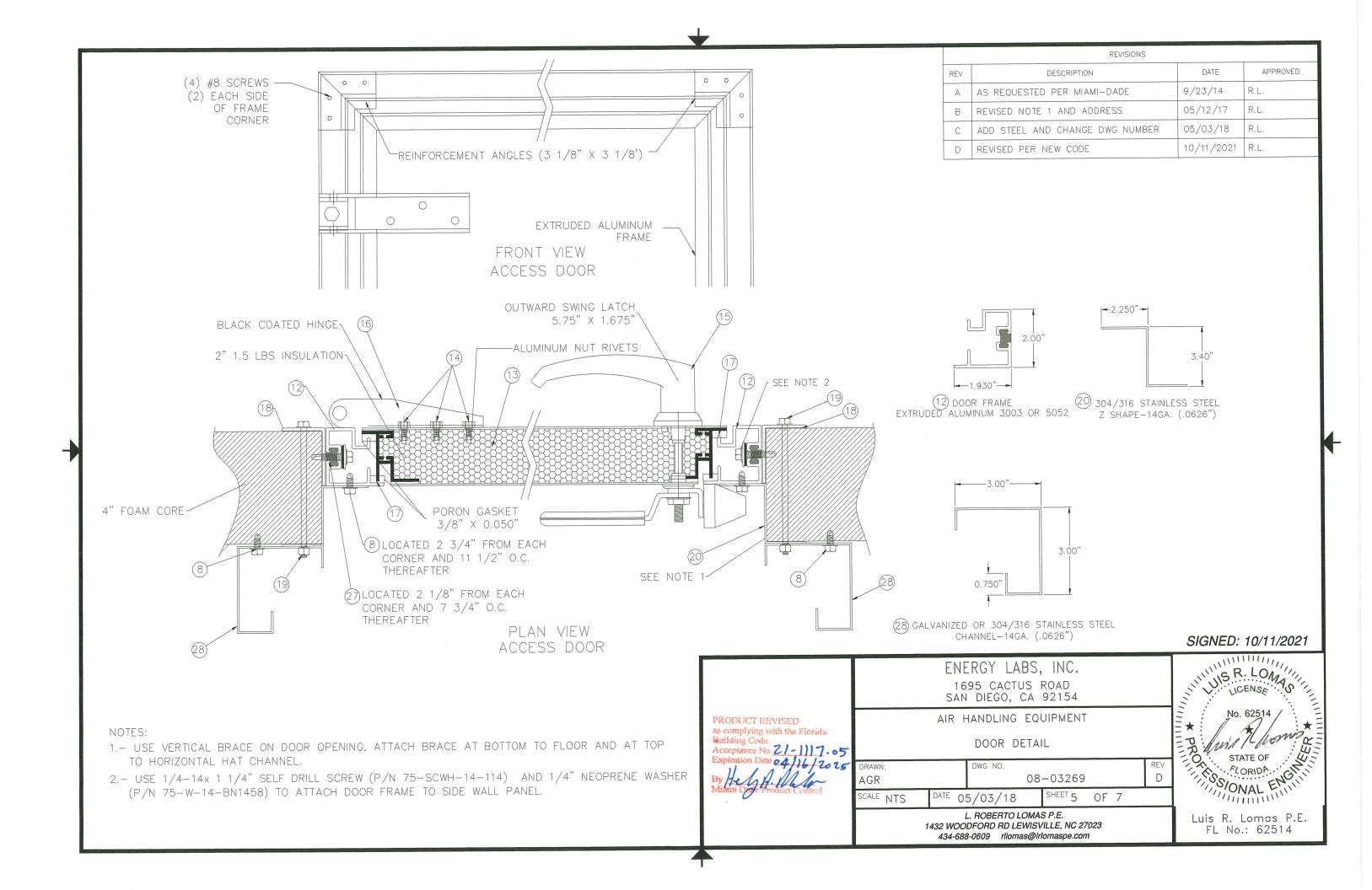
D 08-03269 SHEET 2 OF 7

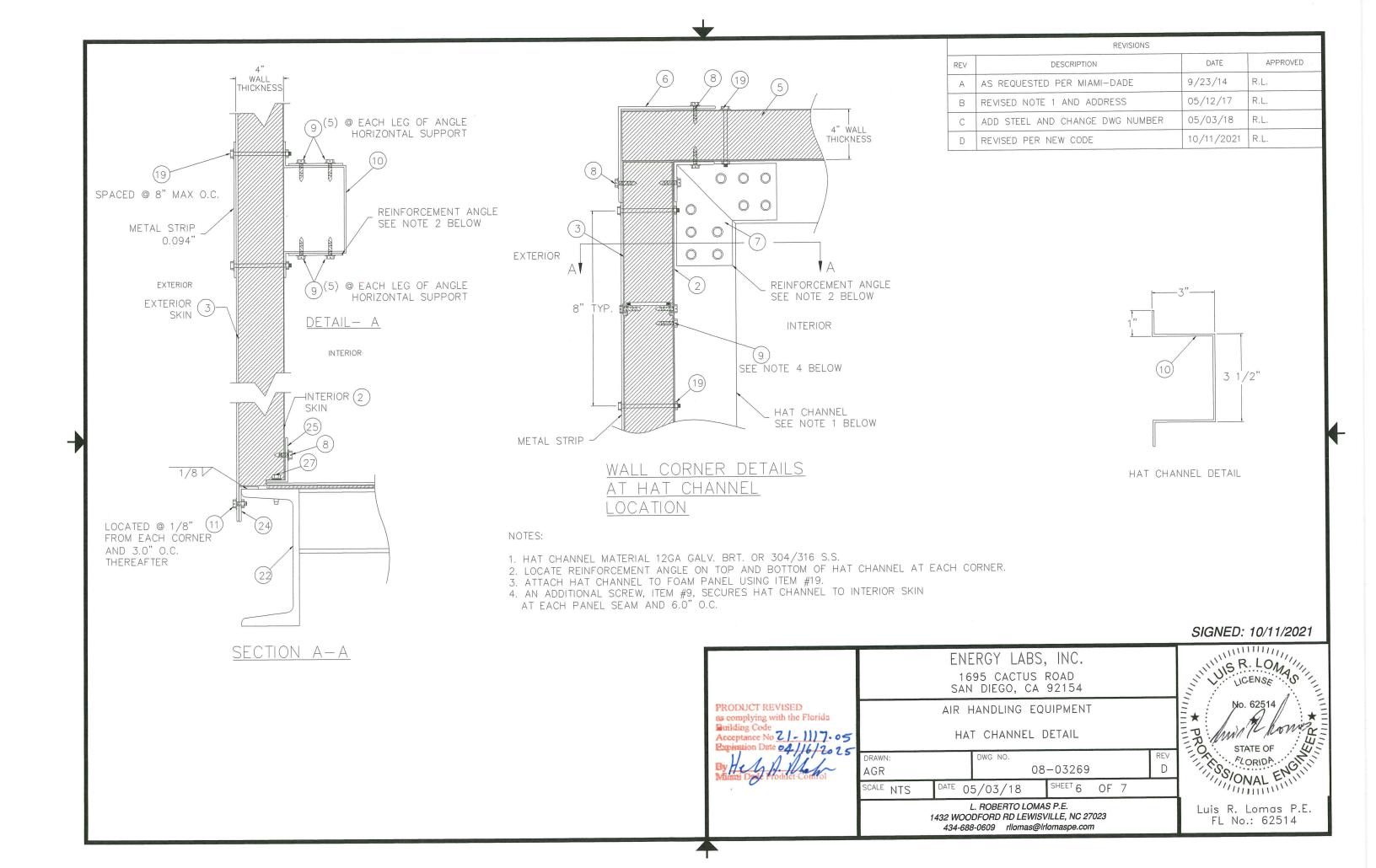
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com

STATE OF STA Luis R. Lomas P.E. FL No.: 62514



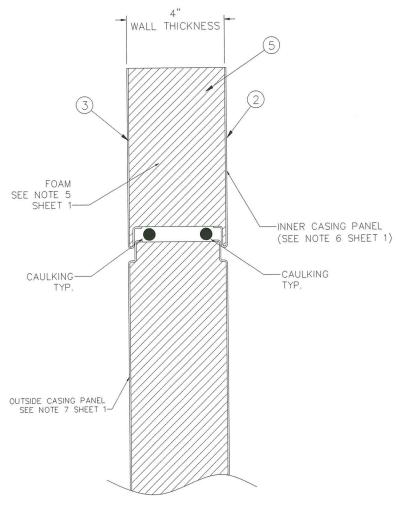






BILL OF MATERIALS					
ITEM NO.:	DESCRIPTION	MANUFACTURER			
1	ASSEMBLY	ENERGYLABS			
2	PANEL, 42" X 132" - 0.050" EXT/0.040" INT5052 ALUMINUM, 18GA EXT/20GA INT 304/316 S.S. OR GALVANIZED	ENERGYLABS			
3	PANEL, 42" X 132" - 0.050" EXT/0.040" INT5052 ALUMINUM, 18GA EXT/20GA INT 304/316 S.S. OR GALVANIZED	ENERGYLABS			
4	PANEL, 12" X 132" - 0.050" EXT/0.040" INT5052 ALUMINUM, 18GA EXT/20GA INT 304/316 S.S. OR GALVANIZED	ENERGYLABS			
5	4" RIGID FOAM INSULATION - 2.5LB DENSITY, R=28.4	R-MAX			
6	14 GAUGE GALVANIZED STEEL ANGLE (G-90)- 5-1/2" X 5-1/2" (OUTER)	ENERGYLABS			
7	14 GAUGE GALVANIZED STEEL ANGLE (G-90)- 1-1/2" X 1-1/2" (INNER)	ENERGYLABS			
8	1/4" - 14 X 3/4" SELF DRILLING SCREW	DUNCAN BOLT COMPANY			
9	1/4" - 14 X 1" SELF DRILLING SCREW	DUNCAN BOLT COMPANY			
10	12 GAUGE GALVANIZED HAT CHANNEL (G-90)- 3-1/2" X 3" X 1"	ENERGYLABS			
11	1/4" -20 X 1/2" BOLT AND 1/4" -20 NUT	DUNCAN BOLT COMPANY			
12	EXTRUDED ALUMINUM 3003 OR 5052 DOOR FRAME	FRONTIER ALUMINUM			
13	2" FIBERGLASS INSULATION PANEL DOOR 24" X 72" GALVANIZED, ALUMINUM 3003 OR 304 S.S.	ENERGY LABS			
14	ALUMINUM RIVET NUTS	PURCHASE			
15	OUTWARD SWING LATCH	ALLEGIS CORP.			
16	304 STAINLESS STEEL HINGES	ALLEGIS CORP.			
17	PORON GASKET	TRIMLOC			
18	14 GAUGE G-90 GALVANIZED STEEL DOOR ANGLE	ENERGYLABS			
19	1/4" -20 X 5" BOLT & 1/4" -20 NUT	DUNCAN BOLT COMPANY			
20	14 GAUGE G-90 OR 304/316 S.S. "Z" SHAPE- 3.40" X 2.25"	ENERGY LABS			
21	14 GAUGE GALVANIZED OR 304/316 STAINLESS STEEL FLOOR PANEL	ENERGY LABS			
22	C-6, 8, 10 & 12 STRUCTURAL C-CHANNEL	ENERGY LABS			
23	2" RIGID FOAM INSULATION- 3LB DENSITY, R=28.4	R-MAX			
24	7/8" X 1-3/8" 14 GAUGE STEEL AND 304/316 STAINLESS STEEL ANGLE	ENERGY LABS			
25	2" X 3" 14GA STEEL ANGLE OR 304/316 STAINLESS STEEL	ENERGY LABS			
26	DOOR BACKING-0.063" ALUMINUM 3003 OR 5052	FRONTIER ALUMINUM			
27	1/4" - 14 X 1-1/4" SELF DRILLING SCREW	DUNCAN BOLT COMPANY			
28	14GA G-90 GALVANIZED OR 304/316 S.S. STEEL CHANNELS 3" X 3"	ENERGYLABS			

REVISIONS					
REV	DESCRIPTION	DATE	APPROVED		
А	AS REQUESTED PER MIAMI-DADE	9/23/14	R.L.		
В	REVISED NOTE 1 AND ADDRESS	05/12/17	R.L.		
С	ADD STEEL AND CHANGE DWG NUMBER	05/03/18	R.L.		
D	REVISED PER NEW CODE	10/11/2021	R.L.		



Panel Seam Connection Detail

SIGNED: 10/11/2021

		ENERGY LABS 1695 CACTUS SAN DIEGO, CA	ROAD		LICENSE TO		
PRODUCT REVISED as complying with the Florida Building Code		AIR HANDLING EQ BILL OF MATE			No. 62514 *		
Acceptance No 21-117.05 Expiration Date 04/16/2025 By 11 10 11.		DWG NO.	3-03269	REV D	STATE OF STA		
Mizmi Dece Product Control	SCALE NTS	DATE 05/03/18	SHEET 7 OF 7		1/1/ONAL ENT		
		L. ROBERTO LOMA 1432 WOODFORD RD LEWIS 434-688-0609 rllomas@l			Luis R. Lomas P.E. FL No.: 62514		