

FLORIDA PRODUCT EVALUATION REPORT

PRODUCT: Fabricated **roof panels** for use on Fidelity Manufacturing generator enclosures. Panels consist of outer aluminum (5052-H32) sheathing, 0.125" thick, attached with 1" wide adhesive tape (VHB-CV62F) to an all-welded aluminum (6061-T6) frame. The frame consists of 2" x 2" x 1/4" aluminum tubes welded to top and bottom aluminum tubes, or special extrusions. All aluminum welding uses MAXAL 4043 weld filler. Additional details are provided in the below referenced technical documents.

This report covers roof panel configurations designed and tested to withstand 80 feet/second (fps) wind driven missiles.

MANUFACTURER: Fidelity Manufacturing (Main office and Fabrication facility)
1900 NE 25th Avenue
Ocala, Florida 34470

Note: Fidelity Manufacturing also may fabricate generator enclosures with associated wall panels at another Fidelity located at:
1101 SW 37th Avenue
Ocala, Florida 34474

EVALUATION STATEMENT: This evaluation is to specifically address the ability of Fidelity Enclosures to withstand the High Velocity Hurricane Zones (HVHZ) requirements. This evaluation uses both test results and engineering rational analysis to show the fabricated enclosures meet the requirements of the Florida Building Code (2023, 8th Edition), Sections 1625/1626 with the limitations discussed below.

Please note that the referenced reports refer to earlier editions of the FBC. This is considered acceptable since test protocols and relevant sections of the code have not changed from earlier editions to the 8th edition.

In general, the reference reports show compliance with the test procedures TAS-201, 202, and 203. Test reports indicate pressure and missile tests passed required test standards

The completed assembly of walls, doors, and roof panels make a robust hurricane wind and debris resistant structure. Additional details are provided in the referenced test reports and on the specific fabrication drawings provided by Fidelity.

This evaluation is considered a rational approach that combines the overall framing of the walls, roof, and doors meet the Florida Building Code, 8th Edition (2023), Sections 1625/1626.

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TECHNICAL DOCUMENTS:

1. Fidelity Manufacturing fabrication drawing (Installation Instructions) of roof panel (copy attached)
2. Certificate of Independence, C. Glenn Pugh, dated 02/15/2024 (copy attached).

REFERENCES:

1. Report FIDM032917-10 (R1), issued 05/18/2017, by ICC-NTA.
2. Report FIDM050917-39 (R0), issued 08/16/2017, by ICC-NTA
3. Florida Building Code (FBC), 8th Edition, 2023.

LIMITATIONS:

This panel is approved for use in High Velocity Hurricane Zones as specified in FBC, Sections 1625/1626.

General roof panel limitations are shown on the provided Fidelity Manufacturing drawing. Panel dimensions can vary as long as appropriate critical characteristic of the panel construction are maintained. These characteristics include skin thickness, member spacing, and support members are within allowable stress limits.

The referenced reports and calculations assume a design wind pressure of +39.9 psf and -49.9 psf. These reports use required test pressure modifications and cycle limits as required to meet TAS 202/203.

Evaluation Prepared by:



C. Glenn Pugh, PE
Signed: 06/30/2025
Florida PE #41451
Pugh Engineering Services, LLC
c.glennpugh@gmail.com

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DRAWINGS PREPARED FOR:
NTA, INC.
ROOF PANEL IMPACT TESTING AND FLORIDA PRODUCT APPROVAL



1900 NE 23TH AVE. OCALA, FL 34478
PHONE (352) 414-4700 FAX (352) 414-4642

MATERIAL USED:

SHEATHING - 5052-H32 ALUMINUM SHEET, .125" THICK, ATTACHED WITH 1.5" WIDE 3M ADHESIVE (VHB-CV62F)
FRAMING - 6061-T6 ALUMINUM EXTRUSION, .25" THICK, 2" X 2", 125" THICK, 4" X 4"
WELDING - FILLER (MAXAL 4043), 1/4" FILLET WELD TYPICAL

PRODUCT DESCRIPTION:

.125" 5052-H32 SHEET ATTACHED TO 2" 6061-T6 STUDS WITH 1.5" WIDE 3M ADHESIVE (VHB-CV62F) (FULL LENGTH OF STUD), STUDS WELDED IN PLACE USING 1/4" FILLET WELD WITH MAXAL 4043 FILLER BOTH SIDES.

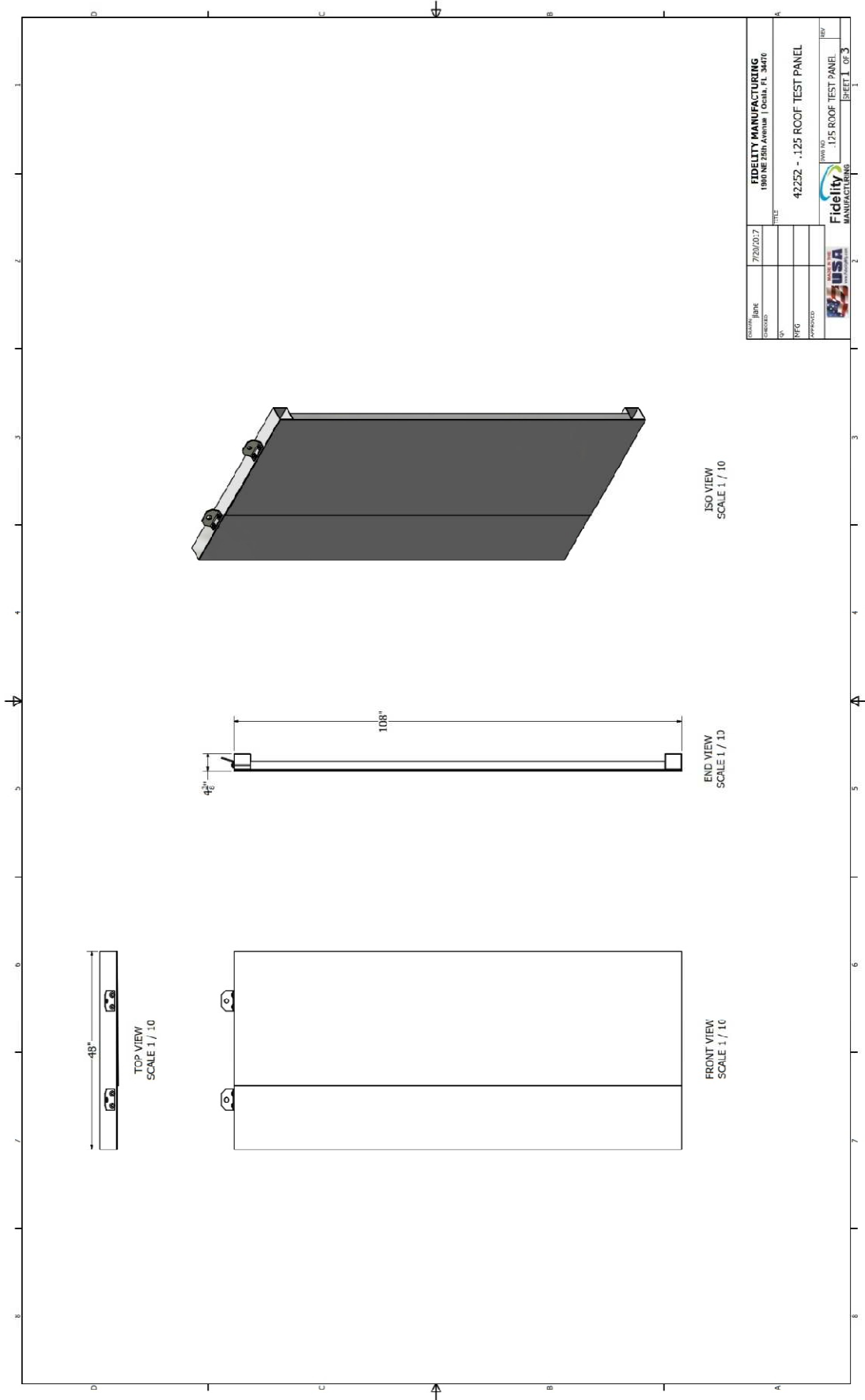
DRAWING PACKAGE	
SHEET NUMBER	SHEET TITLE
1	NOTES
2	EXTERMINAL VIEW
3	FRONT
4	DRN

REVISIONS:

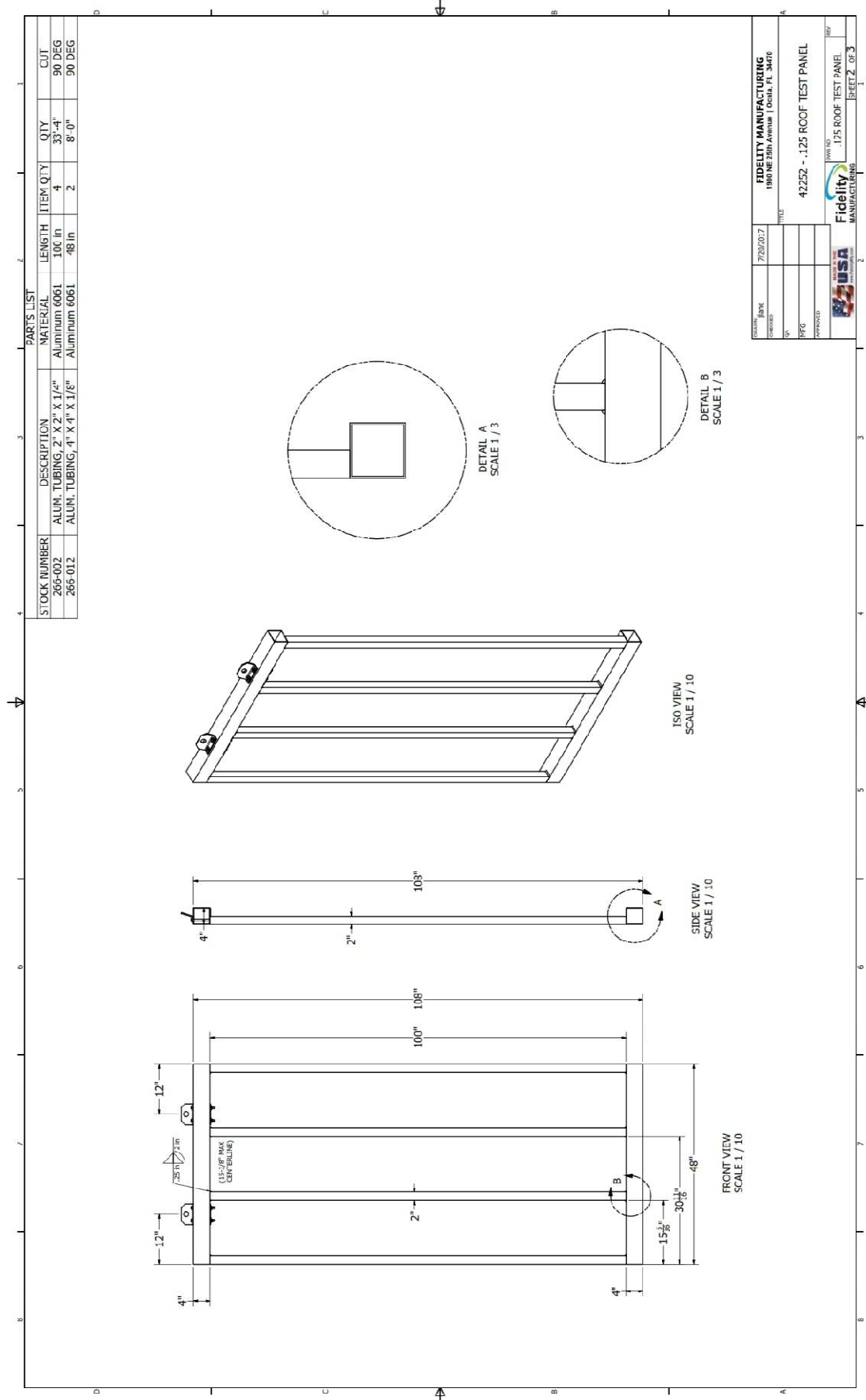
REVISION LEVEL	REVISION DESCRIPTION	SHEET OF CHANGES	ENGINEER	DATE
RE	INITIAL SET P&P		JAL	3/10/2017
01	PANEL LENGTHS UPDATED	ALL	JAL	12/22/2017
02				
03				
04				

DRAWING ACCEPTED FOR PRODUCTION	
SIGNATURE	
PRINT NAME - TITLE	DATE / /

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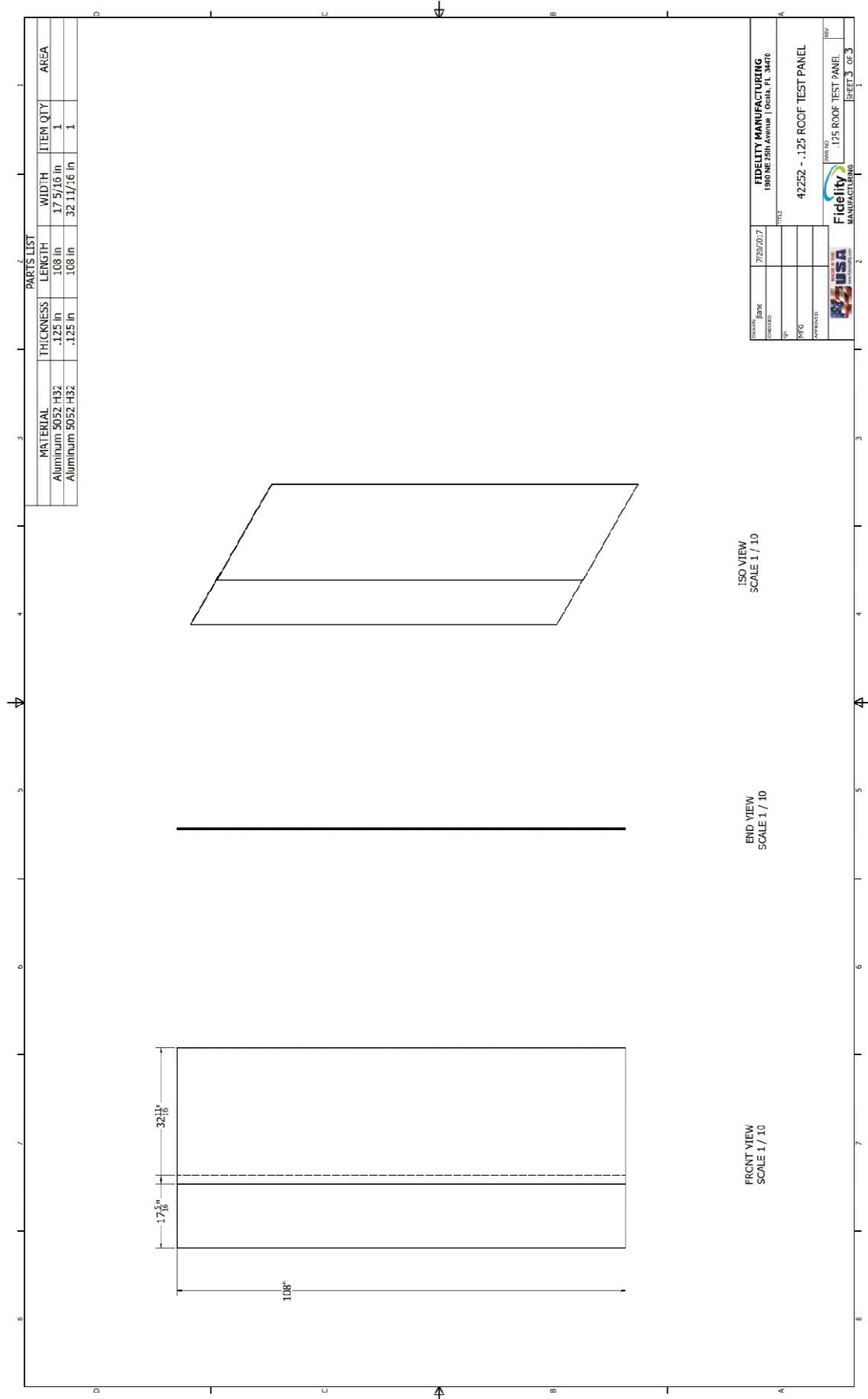


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FIDELITY MANUFACTURING	125 ROOF TEST PANEL
42252 - 125 ROOF TEST PANEL	

Fidelity	USA
MANUFACTURING	125 ROOF TEST PANEL
SHEET 2 OF 3	

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February 15, 2024

Florida Building Commission
1940 North Monroe Street
Tallahassee, FL 32399

Reference: Fidelity Manufacturing
1900 NE 25th Avenue
Ocala, FL 34470

To Whom it May Concern,

This letter is to provide a Certificate of Independence as outlined in Florida Administrative Code 61G20-3.009 and to affirm that I do not have any financial interest in Fidelity Manufacturing (Manufacturer). I also affirm that I do have any financial interest in any testing laboratory, or other agency involved with the approval of Fidelity Manufacturing products.

Please let me know if any additional information is needed.

Sincerely,



C. Glenn Pugh, PE
Signed, 02/15/2024

Florida PE 41451
Pugh Engineering Services, LLC
c.glennpugh@gmail.com