NEMO|etc.
Certificate of Authorization #32455
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ENGINEER **TEST** **CONSULT**

P.E. EVALUATION REPORT (PEER)

Petersen Aluminum Corp.
102 Northpoint Parkway, Building 106
Acworth, GA 30102
(800) 272-4482

PEER-HNTPAC-002.R5
FL46425-R4
Date of Issuance: 01/17/2024
Revision 5: 09/30/2026

SCOPE:
This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C.** **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for compliance with the **9th Edition (2026) Florida Building Code** sections noted herein.

DESCRIPTION: PAC-Shield Roof Insulations

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle. Reference is made to the NEMO|etc. Directory of P.E. Evaluations to ascertain the status and/or current version of this PEER. If the PEER is not listed at the Nemo Directory, then it is no longer valid.

ADVERTISEMENT: "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be in its entirety.

INSPECTION: Upon request, a copy of this entire PEER 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 PEER consists of pages 1 through 4.

Prepared by:

Digitally signed by Robert Nieminen
Date: 2026.09.30 '13:56:11 -04'00

This item has been digitally signed and sealed by Robert Nieminen, P.E.
Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.
Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455

ROBERT NIEMINEN
LICENSE
NO. 59166
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Insulation
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: **PAC-Shield Roof Insulations**, as produced by **Petersen Aluminum Corp.**, have demonstrated compliance with the following sections of the referenced Codes through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.

2. STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2026 Florida Building Code	1508.2	Material standard	ASTM C1289
	1520.1	Physical Properties	TAS 110, Section 8
	2603.3	Surface-burning characteristics	ASTM E84[1]
2026 Florida Building Code, Energy Conservation	C303.1.1.1, R303.1.1.1	Thermal Resistance (R-value)	CAN/ULC-S770-15

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
NEMO	PEER	PEER-HNT-001.R17	09/30/2026
NEMO	Traceability	PCL	04/21/2025
UL, LLC (QUA9625)	Quality Control	Service Confirmation FL, IL, NY, PA, TX	01/16/2024

4. PRODUCT DESCRIPTION:

The following roof insulations are mechanically attached or adhered to approved substrates using fasteners, stress plates and adhesives, as outlined in the Roof System Florida Product Approval.

TABLE 1: SUMMARY OF EVALUATED INSULATIONS

PRODUCT	ASTM C1289			DIMENSIONAL OFFERING		PLANTS	
	TYPE	CLASS	GRADE	THICK (IN)	DIMENSIONS (FT)	NON-HVHZ (ASTM C1289)	HVHZ (TAS 110)
PAC-Shield	II	1	2 or 3	1 to 4.5	4x4, 4x8 or 4x12	FL, IL, NY, PA, TX	FL, IL
PAC-Shield (Tapered)	II	1	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX	FL, IL
PAC-Shield Coated Glass	II	2	2 or 3	0.5 to 4.5	4x4 or 4x8	FL, IL, NY, PA, TX	FL, IL
PAC-Shield Coated Glass (Tapered)	II	2	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX	FL, IL
PAC-Shield Nail Base (OSB)	V[2]	N/A	N/A	1.5 to 4	nominal 4x8	IL	N/A
PAC-Shield Nail Base (plywood)	V[2]	N/A	N/A	1.5 to 4	nominal 4x8	IL	IL
PAC-Shield CV (OSB)	V[2]	N/A	N/A	2.5 to 5	4x8	FL, IL, NY, PA	N/A
PAC-Shield CV (plywood)	V[2]	N/A	N/A	2.5 to 5	4x8	FL, IL, NY, PA	FL, IL

[1] *Numerical ratings as determined by ASTM E84 are not intended to reflect hazards presented by these materials under actual fire conditions.*
[2] *Type V thermal resistances are based on the summation of the minimum R-values of the foam core and the substrate material of the composite product per ASTM C1289-23a*

5. LIMITATIONS:

5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.

5.2 **PAC-Shield Nail Base** and **PAC-Shield CV** with **OSB as the top surface** is not for use in FBC High Velocity Hurricane Zone as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).

5.3 This PEER does not include evaluation of wind resistance or fire classification.

5.3.1 Refer to roof system Florida Product Approval or Miami-Dade NOA for uplift resistance.

5.3.2 Refer to **FBC 1505** or **1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

5.3.3 If **PAC-Shield Roof Insulation** is not listed in the roof system Florida Product Approval, a request may be made to the Authority Having Jurisdiction for local-approval provided that wind resistance data **(FBC 1504.3.1)**, external fire classification data **(FBC 1505 or FBC HVHZ 1516)** and internal fire resistance data **(NFPA 276** or **UL1256 per FBC 1508.1** and **FBC 2603.4.1.5)**, as applicable, is provided, specifically with the subject roof cover.

5.4 **Thermal Resistance (R-Value):**

5.4.1 Table 2 below lists the Long-Term Thermal Resistance (R-Value) when tested by an accredited testing laboratory in accordance with CAN/ULC-S770-15 for compliance with FBC, Energy Conservation Code sections C303.1.1.1 and R303.1.1.1.

TABLE 2: LONG-TERM THERMAL RESISTANCE (R-VALUE)

PRODUCT	THICKNESS (INCH)	R-VALUE ($H \cdot FT^2 \cdot °F/BTU$)
PAC-Shield	1.0	5.7
	2.0	10.8
	3.0	16.3
	4.0	22.1
PAC-Shield Coated Glass	3.0	16.3
	4.0	22.1

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6. INSTALLATION:

PAC-Shield Roof Insulation shall be installed in accordance with **Petersen Aluminum Corp.** published installation instructions, coupled with attachment requirements set forth in the roof system Florida Product Approval or Miami-Dade NOA (for wind resistance) and fire classification listings.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for product and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

UL (QUA9625): (360) 817-5512; bsai.inspections@ul.com

Products listed in **Rule 61G20-3.001, F.A.C.** shall be manufactured under a quality assurance program audited by an approved quality assurance entity.

- END OF PEER -

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