



NEMO|etc.

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ENGINEER

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Hunter Panels

a division of Carlisle Construction Materials, LLC

15 Franklin Street
Portland, ME 04101

(717) 245-7000

PEER-HNT-001.R10

FL5968-R14

Date of Issuance: 10/18/2011

Revision 10: 08/23/2024

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 use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **8th Edition (2023) Florida Building Code** [sections noted herein](#).

DESCRIPTION: H-Shield Roof Insulations

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

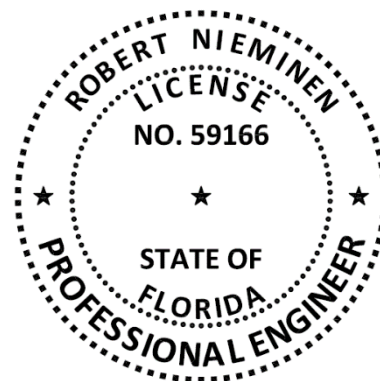
CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO 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.

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



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: H-Shield Roof Insulations, as produced by Hunter Panels, have demonstrated compliance with the following sections of the 8th Edition (2023) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD
1508.2	Material standard	ASTM C1289
1520.1	Physical Properties	TAS 110, Section 8
2603.3	Surface-burning characteristics	ASTM E84 ¹

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
ERD (TST6049)	ASTM C1289 & TAS 110 (FL)	C42950.09.13-1A-R1	09/10/2013
ERD (TST6049)	ASTM C1289 & TAS 110 (FL)	C42950.02.14-1A-R2	09/10/2013
ERD (TST6049)	ASTM C1289 & TAS 110 (PA)	C42950.03.14	03/26/2014
ERD (TST6049)	ASTM C1289 (IL)	C46470.10.14-1A-1	10/03/2014
ERD (TST6049)	ASTM C1289 (IL)	C46470.10.14-1A-2	10/03/2014
ERD (TST6049)	TAS 110 (IL)	C46470.10.14-1A-3A	10/03/2014
ERD (TST6049)	ASTM C1289 (UT)	C46470.01.15-1	01/08/2015
ERD (TST6049)	TAS 110 (UT)	C46470.01.15-2	01/08/2015
FM Approvals (TST1867)	ASTM E84	3018331	08/30/2004
ITS (TST1585)	ASTM E84	100114954SAT-001 B	06/08/2010
ICC-ES (EVL2396)	2021 IBC/IRC Compliance	ESR-3174	01/01/2022
Miami-Dade (CER 1592)	FBC HVHZ Compliance	19-0521.04	11/21/2019
NEMO	Traceability	FBC CLA	03/18/2024
R&D Services (IAS TL-566)	ASTM C1289 (TX)	RD18149	02/26/2018
R&D Services (IAS TL-566)	ASTM C1289 (NY)	RD18229	04/02/2018
UL, LLC (CER 9626)	UL1256	TJBX.R18846	09/04/2023
UL, LLC (QUA9625)	Quality Control	Service Confirmation	12/13/2022
UL, LLC (QUA9625)	Quality Control	FL, IL, NY, PA, TX, UT	
		Florida BCIS	Current

¹ Numerical ratings as determined by ASTM E84 are not intended to reflect hazards presented by these materials under actual fire conditions.

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 HUNTER PANELS INSULATION PRODUCTS

PRODUCT	ASTM C1289			DIMENSIONAL OFFERING		PLANTS	
	TYPE	CLASS	GRADE	THICK (IN)	DIMENSIONS (FT)	NON-HVHZ (ASTM C1289)	HVHZ (TAS 110)
H-Shield F	I	1	2 or 3	1 to 4	4x4 or 4x8	FL, IL, NY, PA, UT	FL, IL, PA, UT
H-Shield	II	1	2 or 3	1 to 4.5	4x4, 4x8 or 4x12	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
TRI-BUILT ISO	II	1	2 or 3	1 to 4.5	4x4, 4x8 or 4x12	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
Tapered H-Shield	II	1	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
TRI-BUILT Tapered ISO	II	1	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
H-Shield CG	II	2	2 or 3	0.5 to 4.5	4x4 or 4x8	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
TRI-BUILT ISO CGF	II	2	2 or 3	0.5 to 4.5	4x4 or 4x8	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
Tapered H-Shield CG	II	2	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
TRI-BUILT Tapered ISO CGF	II	2	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
H-Shield Premier	II	2	2 or 3	1	4x8	UT	UT
H-Shield HD or HD90	II	4	1	0.5	4x8	FL, NY, PA, TX, UT	FL, PA
TRI-BUILT HD ISO	II	4	1	0.5	4x8	FL, NY, PA, TX, UT	FL, PA
H-Shield HD Composite CG	IV	N/A	2	2 to 4	nominal 4x4 or 4x8	FL, IL, NY, UT	FL, IL, UT
H-Shield WF	IV	N/A	N/A	1.5 to 3.5	nominal 4x4 or 4x8	FL	FL
H-Shield NB (OSB)	V	N/A	N/A	1.5 to 4	nominal 4x8	IL	N/A
H-Shield NB (plywood)	V	N/A	N/A	1.5 to 4	nominal 4x8	IL	IL
Cool-Vent (OSB)	V	N/A	N/A	2.5 to 5	4x8	FL, IL, NY, PA, UT	N/A
Cool-Vent (plywood)	V	N/A	N/A	2.5 to 5	4x8	FL, IL, NY, PA, UT	FL, IL, PA, UT
Cool-Vent II (OSB)	V	N/A	N/A	2.5 to 6	4x8	IL	N/A
Cool-Vent II (plywood)	V	N/A	N/A	2.5 to 6	4x8	IL	IL

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 **H-Shield NB, Cool-Vent and Cool-Vent II with OSB as the top surface** are 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 **H-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 All products in the roof assembly shall have quality assurance in accordance with the F.A.C. [Rule 61G20-3](#).

6. INSTALLATION:

H-Shield Roof Insulation shall be installed in accordance with **Hunter Panels** 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

- END OF PEER -