



NEMO|etc.

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ENGINEER

EVALUATE

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

CertainTeed, LLC

20 Moores Road
Malvern, PA 19355
(610) 893-5400

PEER-CTR-006.A.R5

FL491-R9

Date of Issuance: 02/14/2013

Revision 5: 09/25/2023

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: FlintBoard® 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: The Florida Product Approval Number (FL#) preceded by the words "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.

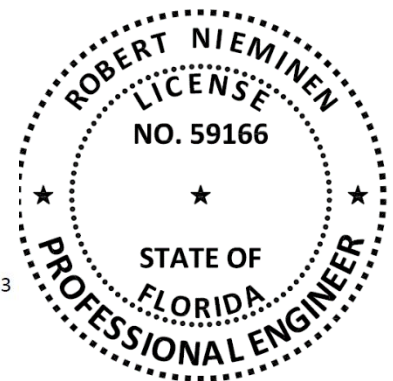
Prepared by:

Digitally signed by
Robert Nieminen
Date: 2023.09.25
'12:37:32 -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



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: FlintBoard® Roof Insulations, as produced by CertainTeed, LLC, 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:

<u>SECTION</u>	<u>PROPERTY</u>	<u>STANDARD</u>	<u>YEAR</u>
1508.2	Material standard	ASTM C1289	2018
1520.1	Physical Properties	TAS 110, Section 8	2000 (from 2023 Code)
2603.3	Surface-burning characteristics	ASTM E84 ¹	2018

3. REFERENCES:

<u>ENTITY</u>	<u>EXAMINATION</u>	<u>REFERENCE</u>	<u>DATE</u>
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 (FL)	C42950.02.14-1A-R2	04/16/2014
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
FM Approvals (TST1867)	ASTM E84	3009926	02/11/2013
ITS (TST1585)	ASTM E84	100114954SAT-001 B	06/08/2010
Miami-Dade (CER 1592)	HVHZ Compliance	22-1017.01	12/29/2022
Miami-Dade (CER 1592)	HVHZ Compliance	22-1117.02	04/13/2023
R&D Services (TST1552)	ASTM C1289 (TX)	RD18149	02/26/2018
R&D Services (TST1552)	ASTM C1289 (NY)	RD18229	04/02/2018
R&D Services (TST1552)	ASTM C1289	RD201193-R1	04/07/21
R&D Services (TST1552)	ASTM C1289	RD201199-R2	03/16/22
UL, LLC (CER 9626)	UL1256	TJBX.R11656	03/22/23
UL, LLC. (QUA 9625)	Quality Control	Multiple-Listing, R18846	10/26/2009
UL, LLC. (QUA 9625)	Quality Control	Multiple-Listing, R13089	01/07/2011
UL, LLC (QUA9625)	Quality Control	Service Confirmation	02/04/2019
UL, LLC (QUA9625)	Quality Control	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 FLINTBOARD ROOF INSULATION PRODUCTS

PRODUCT	ASTM C1289			DIMENSIONAL OFFERING		PLANTS	
	TYPE	CLASS	GRADE	THICK (IN)	DIMENSIONS (FT)	NON-HVHZ (C1289)	HVHZ (TAS 110)
FlintBoard _H ISO F	I	1	2 or 3	1 to 4	4x4 or 4x8	FL, IL, NY, PA, UT	FL, IL, PA, UT
FlintBoard ISO	II	1	2 or 3	1 to 4	4x4 or 4x8	GA	GA
FlintBoard ISO-T	II	1	2 or 3	1 to 4.5	4x4	GA	GA
FlintBoard ISO Cold	II	2	2 or 3	1.3 to 4	4x4 or 4x8	GA	GA
FlintBoard _H ISO	II	1	2 or 3	1 to 4.5	4x4 or 4x8	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
FlintBoard _H ISO T	II	1	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
FlintBoard _H ISO Cold	II	2	2 or 3	0.5 to 4.5	4x4 or 4x8	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
FlintBoard _H ISO T Cold	II	2	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX, UT	FL, IL, PA, UT
FlintBoard _H ISO HD	II	4	1	0.5	4x8	FL, NY, PA, TX, UT	FL, PA
FlintBoard _H ISO Composite	IV	N/A	2	2 to 4	nominal 4x4 or 4x8	FL, IL, NY, UT	FL, IL, UT
FlintBoard _H ISO WF	IV	N/A	N/A	1.5 to 3.5	nominal 4x4 or 4x8	FL	FL
FlintBoard _H ISO NB (OSB)	V	N/A	N/A	1.5 to 4	nominal 4x8	IL	N/A
FlintBoard _H ISO NB (plywood)	V	N/A	N/A	1.5 to 4	nominal 4x8	IL	IL
FlintBoard _H CV (OSB)	V	N/A	N/A	2.5 to 5	4x8	FL, IL, NY, PA, UT	N/A
FlintBoard _H CV (plywood)	V	N/A	N/A	2.5 to 5	4x8	FL, IL, NY, PA, UT	FL, IL, PA, UT

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 **FlintBoard_H ISO NB (OSB)** and **FlintBoard_H CV (OSB)** 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 **FBC HVHZ 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 **FlintBoard 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:

- 6.1 **FlintBoard Roof Insulation** shall be installed in accordance with **CertainTeed, LLC** 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 in order 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 -