



NEMO|etc.

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ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT

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

Evaluation Report C40710.02.13-R4
FL491-R8

Date of Issuance: 02/14/2013

Revision 4: 07/17/2020

SCOPE:

This Evaluation Report is issued under **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 **7th Edition (2020) 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 Evaluation Report 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 Evaluation Reports 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 Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

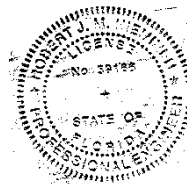
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 3.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 07/17/2020. This does not serve as an electronically signed document.

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 evaluation reports 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 Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Insulation

Compliance Statement: FlintBoard™ Roof Insulations, as produced by CertainTeed, LLC, have demonstrated compliance with the following sections of the 7th Edition (2020) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1508.2	Material standard	ASTM C1289	2015
2603.3	Surface-burning characteristics	ASTM E84 ¹	2016

3. REFERENCES:

Entity	Examination	Reference	Date
ERD (TST6049)	ASTM C1289	C31640.04.10	04/06/2010
ERD (TST6049)	ASTM C1289 (FL)	C42950.09.13-1A-R1	03/04/2014
ERD (TST6049)	ASTM C1289 (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 (UT)	C46470.01.15-1	01/08/2015
ERD (TST6049)	ASTM C1289 (UT)	C46470.01.15-2	01/08/2015
ITS (TST1585)	ASTM E84	100114954SAT-001 B	06/08/2010
FM Approvals (TST1867)	ASTM E84	3018331	08/30/2004
FM Approvals (TST1867)	ASTM E84	3009926	02/11/2013
Miami-Dade (CER 1592)	HVHZ Compliance	18-0129.04	04/12/2018
Miami-Dade (CER 1592)	HVHZ Compliance	19-1017.08	11/27/2019
PRI (TST5878)	ASTM C1289 (GA)	ATL-129-02-01	01/02/2014
PRI (TST5878)	ASTM C1289 (GA)	ATL-129-02-02	01/02/2014
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. (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

4. PRODUCT DESCRIPTION:

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

Product	ASTM C1289			Dimensional Offering		Plants
	Type	Class	Grade	Thick (in)	Dimensions (ft)	Non-HVHZ (C1289)
FlintBoard _H ISO F	I	1	2 or 3	1 to 4	4x4 or 4x8	FL, IL, NY, PA, UT
FlintBoard ISO	II	1	2 or 3	1 to 4	4x4 or 4x8	GA
FlintBoard ISO-T	II	1	2 or 3	1 to 4.5	4x4	GA
FlintBoard ISO Cold	II	2	2 or 3	1.3 to 4	4x4 or 4x8	GA
FlintBoard _H ISO	II	1	2 or 3	1 to 4.5	4x4 or 4x8	FL, IL, NY, PA, TX, UT
FlintBoard _H ISO T	II	1	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX, UT

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

TABLE 1: SUMMARY OF FLINTBOARD ROOF INSULATION PRODUCTS						
Product	ASTM C1289			Dimensional Offering		Plants
	Type	Class	Grade	Thick (in)	Dimensions (ft)	Non-HVHZ (C1289)
FlintBoard _H ISO Cold	II	2	2 or 3	0.5 to 4.5	4x4 or 4x8	FL, IL, NY, PA, TX, UT
FlintBoard _H ISO T Cold	II	2	2 or 3	0.5 to 4.5	4x4	FL, IL, NY, PA, TX, UT
FlintBoard _H ISO NB (OSB)	V	N/A	N/A	1.5 to 4	nominal 4x8	IL
FlintBoard _H ISO NB (plywood)	V	N/A	N/A	1.5 to 4	nominal 4x8	IL
FlintBoard _H CV (OSB)	V	N/A	N/A	2.5 to 5	4x8	FL, IL, NY, PA, UT
FlintBoard _H CV (plywood)	V	N/A	N/A	2.5 to 5	4x8	FL, IL, NY, 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 Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report does not include evaluation of wind resistance or fire classification.
 - 5.3.1 Refer to roof system Product Approval for uplift resistance.
 - 5.3.2 Refer to **FBC 1505** 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 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**) 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 audit in accordance with the **F.A.C. 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 Product Approval (for wind resistance) and fire classification listings.
- 6.2 For adhered roof insulation and board-size: Unless otherwise noted in the roof system Product Approval, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29 (February 2020).

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, LLC. – QUA9625; (847) 664-3281

- END OF EVALUATION REPORT -