



**NEMO|etc.**

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**EVALUATION REPORT**

**Carlisle Coatings & Waterproofing**  
900 Hensley Lane  
Wylie, TX 75098  
**(717) 245-7000**

**Evaluation Report C39180.12.11-R5**  
**FL6785-R9**  
**Date of Issuance: 12/09/2011**  
**Revision 5: 06/17/2019**

**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 and Florida Building Code, Residential Volume. The products described herein have evaluated for compliance with the **6<sup>th</sup> Edition (2017) Florida Building Code** sections noted herein.

**DESCRIPTION: CCW Roof Underlayments**

**LABELING:** Labeling shall be in accordance with the requirements 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 documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

**ADVERTISEMENT:** The Evaluation Report number 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 4.

**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 06/17/2019. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. NEMO|etc. 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. 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. 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:** Underlayment

**Compliance Statement:** **CCW Roof Underlayments**, as produced by **Carlisle Coatings & Waterproofing**, have demonstrated compliance with the following sections of the **6<sup>th</sup> Edition (2017) 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:**

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1507.1.1, T1507.1.1, 1507.2.9.2, R905.1.1, TR905.1.1, R905.2.8.2	Physical Properties	ASTM D1970	2015
1507.3.3, R905.3.3	Physical Properties	FRSA/TRI April 2012 (04-12)	2012
TAS 110	Accelerated Weathering	ASTM D4798	2011

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	ASTM D1970 (TX)	C41280.10.12	10/05/2012
MTI (TST2508)	ASTM D1970 (PA)	PX02M0A	01/17/2011
MTI (TST2508)	ASTM D1970 (PA)	PX13M0B	01/18/2011
ICC-ES (EVL2396)	2015 IBC/IRC Compliance	ESR-1556	02/01/2018
ICC-ES (EVL2396)	2015 IBC/IRC Compliance	ESR-2206	06/01/2018
NEMO (TST6049)	FRSA/TRI April 2012 (04-12) (PA&TX)	4S-CRL-18-004.12.18-1	12/17/2018
NEMO (TST6049)	ASTM D1970 (adhesion) (TX)	4S-CRL-18-004	01/21/2019
NEMO (TST6049)	ASTM D1970 & D4798 (PA)	4j-CRL-19-SSUDL-03.A	05/28/2019
NEMO (TST6049)	ASTM D1970 (PA)	4j-CRL-19-SSUDL-02.A	06/03/2019
NEMO (TST6049)	ASTM D1970 & FRSA/TRI (04-12) (TX)	4S-CRL-18-004.06.19.A	06/12/2019
UL, LLC. (QUA9625)	Quality Control	TGDY.R18678 Listing	10/18/2010
UL, LLC. (QUA9625)	Quality Control	Service Confirmation	04/13/2017

**4. PRODUCT DESCRIPTION:**

	<u>Product</u>	<u>Specification</u>	<u>Plant(s)</u>	<u>Description</u>
4.1	<b>WIP 100</b>	ASTM D1970	Carlisle, PA	self-adhering, fiberglass reinforced, granule surfaced, rubberized asphalt roof underlayment
4.2	<b>WIP 100SG</b>	ASTM D1970	Carlisle, PA	self-adhering, fiberglass reinforced, granule surfaced, rubberized asphalt roof underlayment
4.3	<b>WIP 250HT</b>	ASTM D1970 and FRSA/TRI April 2012 (04-12)	Carlisle, PA	self-adhering, fiberglass reinforced, film surfaced, rubberized asphalt roof underlayment
4.4	<b>WIP 300HT</b>	ASTM D1970 and FRSA/TRI April 2012 (04-12)	Terrell, TX	self-adhering, coated-polyolefin-composite film surfaced, rubberized asphalt roof underlayment
4.5	<b>WIP 400HT</b>	ASTM D1970 and FRSA/TRI April 2012 (04-12)	Terrell, TX	self-adhering, polypropylene film surfaced, rubberized asphalt roof underlayment
4.6	<b>WIP GRIP</b>	ASTM D1970	Carlisle, PA	self-adhering, fiberglass reinforced, film-surfaced, rubberized asphalt roof underlayment

**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 HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 **CCW Roof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.
- 5.5 Allowable Roof Covers:

TABLE 1: ROOF COVER OPTIONS						
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate & Synthetic Slate/Shake
WIP 100	Yes	No	No	No	No	No
WIP 100SG	Yes	No	No	No	No	No
WIP 250HT	Yes	Yes	No	Yes	No	No
WIP 300HT	Yes	Yes	No	Yes	No	Yes
WIP 400HT	Yes	Yes	No	Yes	No	Yes
WIP GRIP	Yes	No	No	No	No	No

- 5.6 Allowable Substrates:

TABLE 2: SUBSTRATE OPTIONS		
Underlayment	Primer	Substrates
WIP 100, WIP 250HT	(Optional) CCW-702 or CAV-GRIP	plywood
WIP 100, WIP 250HT	None	ASTM D226 felt
WIP 100SG	CCW-702 or CAV-GRIP	plywood
WIP 300HT	(Optional) CCW-702 or CAV-GRIP	plywood, OSB or ASTM D226 felt
WIP 400HT	(Optional) CCW-702 or CAV-GRIP	plywood, OSB or ASTM D226 felt
WIP GRIP	(Optional) ASTM D41, CCW-550, CCW-702 or CAV-GRIP	plywood
	ASTM D41, CCW-550, CCW-702 or CAV-GRIP	OSB

- 5.7 Exposure Limitations:

WIP 100 and WIP 100SG shall not be left exposed for longer than 30-days after installation.

WIP GRIP shall not be left exposed for longer than 90-days after installation.

WIP 250HT, WIP 300HT and WIP 400HT shall not be left exposed for longer than 180-days after installation

- 5.8 Tile Slippage Limitations [per FRSA/TRI April 2012 (04-12)]:

When loading roof tiles on the underlayment in direct-deck tile assemblies, tile shall be staged atop a fastened batten or toe-board, regardless of slope.

## 6. INSTALLATION:

- 6.1 **CCW Roof Underlayments** shall be installed in accordance with **Carlisle Coatings & Waterproofing** published installation requirements subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- 6.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application. Prime the substrate (if applicable) with **CCW-702** or **CAV-GRIP** Primer. Priming is required when temperatures are below 40°F.

### 6.3 **WIP 100, WIP 100SG, WIP 250HT, WIP 300HT, WIP 400HT and WIP GRIP:**

#### 6.3.1 Non-Tile Applications:

Shall be installed in compliance with the requirements for ASTM D1970 underlayment in FBC Table 1507.1.1 or R905.1.1 for the type of prepared roof covering to be installed, and CCW published requirements.

#### 6.3.2 Nail-On Tile Applications (WIP 250HT, WIP 300HT or WIP 400HT only):

Reference is made to FRSA/TRI April 2012 (04-12) Installation Manual for Self-Adhered Membrane, and CCW published requirements.

For mechanically fastened tile roofing over a 2-ply system, consisting of Base Sheet and Self-Adhered Membrane, fastening of the ASTM D226, Type II base sheet shall be in accordance with CCW requirements, but not less than that the densities set forth in FRSA/TRI April 2012 (04-12), Table 1.

Refer to Section 5.8 for tile staging limitations.

## 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 manufacturer or the named QA entity for plants covered under **Rule 61G20-3 QA** requirements. Refer to Section 4 herein for product & production locations having met codified physical properties specifications.

## 9. QUALITY ASSURANCE ENTITY:

UL, LLC– QUA9625; (847) 664-3281

- END OF EVALUATION REPORT -