



EXTERIOR RESEARCH & DESIGN, LLC.

Certificate of Authorization #9503

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OXFORD, CT 06478

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## EVALUATION REPORT

**Owens Corning**  
One Owens Corning Parkway  
Toledo, OH 43659  
**(740) 404-7829**

**Evaluation Report O35470.12.10-R3**

**FL14299-R4**

**Date of Issuance: 12/16/2010**

**Revision 3: 10/10/2017**

### 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 product described herein has been evaluated for compliance with the **6<sup>th</sup> Edition (2017) Florida Building Code** sections noted herein.

### DESCRIPTION: Owens Corning 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. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD 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 "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

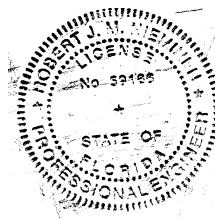
**INSPECTION:** Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

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 10/10/2017. This does not serve as an electronically signed document.

### CERTIFICATION OF INDEPENDENCE:

1. Trinity|ERD 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. Trinity|ERD 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 Trinity|ERD 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:** Owens Corning Roof Underlayments, as produced by Owens Corning, 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	Unrolling, Breaking Strength, Pliability	ASTM D226	2009
1507.1.1	Tear Strength	ASTM D1970	2015
TAS 110	Accelerated Weathering	TAS 110	2000

### 3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	Accelerated Weathering	O37520.08.11	08/19/2011
ITS (TST1509)	Physical Properties	100274639COQ-001B	11/29/2010
PRI (TST5878)	Tear strength	OCF-259-02-01	12/03/2015
ITS (QUA1673)	Quality Control	Service Confirmation	01/25/2017

### 4. PRODUCT DESCRIPTION:

4.1 **Deck Defense™ High Performance Roof Underlayment** is a synthetic sheet-type underlayment comprised of a woven core coated on both sides with a polymer coating; meets FBC 1507.1.1 (Exception).

### 5. LIMITATIONS:

5.1 This is a building code evaluation. Neither Trinity|ERD 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 report; refer to current Approved Roofing Materials Directory for fire ratings of this product.

5.4 **Owens Corning 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
Deck Defense™ High Performance Roof Underlayment	Yes	No	No	Yes	Yes	Yes

5.6 **Exposure Limitations:**

**Deck Defense™ High Performance Roof Underlayment** shall not be left exposed for longer than **180-days** after installation.

## 6. INSTALLATION:

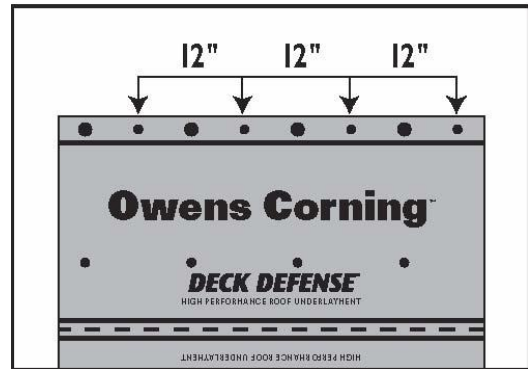
- 6.1 **Owens Corning Roof Underlayments** shall be installed in accordance with **Owens Corning** published installation requirements subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- 6.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application.

### 6.3 **Deck Defense™ High Performance Roof Underlayment:**

- 6.3.1 Shall be installed in compliance with the requirements for ASTM D226, Type I or II underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed, taking into account the wider sheet-width for double-layer applications.
- 6.3.2 Always lay Deck Defense™ underlayment parallel to the eaves.
- 6.3.3 Mechanical attachment of **Deck Defense™ High Performance Roof Underlayment** is limited to roofing nails with minimum 1-inch diameter plastic or steel caps.
- 6.3.4 **Slopes of 4:12 or greater:**

Starting at the eaves, lay **Deck Defense™**, lapping each course minimum 3-inches (horizontal lap) and with minimum 4-inch end (vertical) laps. End (vertical) laps in a succeeding course shall be staggered from those in preceding course by minimum 6-feet. Lap **Deck Defense™** a minimum of 6-inches from both sides over all hips, ridges and valleys.

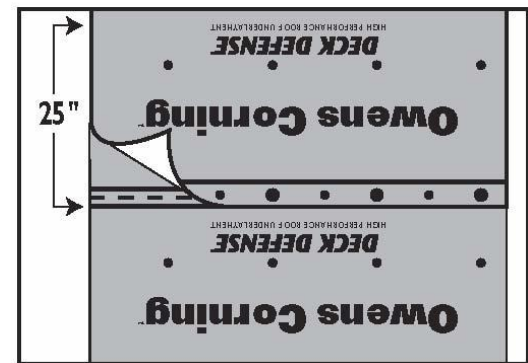
Secure with 1-inch diameter plastic or steel cap nails placed in the printed nail areas located on **Deck Defense™**.



View of Standard Securement, 12-inch o.c. at laps

### 6.3.5 **Slopes of 2:12 to less than 4:12:**

Double layer application; begin by fastening a 25-inch wide strip of **Deck Defense™** placed along the eaves. Place a full-width sheet over the starter, completely overlapping the starter course. Overlap succeeding courses by 25-inches. Minimum 12-inch end (vertical) laps shall be staggered from those in preceding course by minimum 6-feet.



View of Low-Slope Overlapping, 25-inch

Secure each course with 1-inch diameter plastic or steel cap nails placed in the nailing area every 6-inch o.c. at the overlap and 12-inch o.c. in the center of the sheet. Secure end laps with 1-inch diameter plastic or steel cap nails spaced 4-inch o.c.



**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:**

Silvassa, India

**9. QUALITY ASSURANCE ENTITY:**

Intertek Testing Services NA Inc. – QUA1673; (608) 836-4400

**- END OF EVALUATION REPORT -**