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**Product Approval**  
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FL #	FL15216-R10
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Owens Corning Roofing and Asphalt, LLC
Address/Phone/Email	One Owens Corning Parkway Toledo, OH 43645 (740) 321-6345 Greg.Keeler@owenscorning.com
Authorized Signature	Keeler Greg Greg.Keeler@owenscorning.com
Technical Representative	Greg Keeler
Address/Phone/Email	2790 Columbus Road Granville, OH 43023 (740) 321-6345 greg.keeler@owenscorning.com
Quality Assurance Representative	
Address/Phone/Email	

Category	Roofing												
Subcategory	Underlayments												
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received												
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen												
Florida License	PE-59166												
Quality Assurance Entity	Intertek Testing Services NA, Inc. - QA Entity												
Quality Assurance Contract Expiration Date	12/31/2023												
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received												
Certificate of Independence	<a href="#">FL15216 R10 COI 2021 01 COI NIEMINEN.pdf</a>												
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b><u>Standard</u></b></th> <th><b><u>Year</u></b></th> </tr> </thead> <tbody> <tr> <td>ASTM D226 (physicals)</td> <td>2009</td> </tr> <tr> <td>ASTM D4533 (tear strength)</td> <td>2015</td> </tr> <tr> <td>ASTM D4798 (weathering)</td> <td>2011</td> </tr> <tr> <td>ASTM D4869 (liquid transmission)</td> <td>2016</td> </tr> <tr> <td>ASTM D5035 (tensile strength)</td> <td>2011</td> </tr> </tbody> </table>	<b><u>Standard</u></b>	<b><u>Year</u></b>	ASTM D226 (physicals)	2009	ASTM D4533 (tear strength)	2015	ASTM D4798 (weathering)	2011	ASTM D4869 (liquid transmission)	2016	ASTM D5035 (tensile strength)	2011
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Equivalence of Product Standards Certified By													
Sections from the Code													
Product Approval Method	Method 1 Option D												
Date Submitted	08/13/2021												
Date Validated	08/16/2021												
Date Pending FBC Approval	08/22/2021												

Date Approved

10/12/2021

### Summary of Products

FL #	Model, Number or Name	Description
15216.1	RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments	Synthetic roof underlayments
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> N/A <b>Other:</b> See ER Section 5 for Limits of Use.		<b>Installation Instructions</b> <a href="#">FL15216 R10 II 2021 08 13 FINAL ER OWENS CORNING RHINOROOFL15216-R10.pdf</a> Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL15216 R10 AE 2021 08 13 FINAL ER OWENS CORNING RHINOROOFL15216-R10.pdf</a> Created by Independent Third Party: Yes

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#### Product Approval Accepts:





**NEMO|etc.**

Certificate of Authorization #32455  
353 Christian Street, Unit #13  
Oxford, CT 06478  
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

## EVALUATION REPORT

**Owens Corning Roofing and Asphalt, LLC**

One Owens Corning Parkway  
Toledo, OH 43659  
**(740) 321-6345**

**Evaluation Report I40510.02.12-R11**

**FL15216-R10**

**Date of Issuance: 02/17/2012**

**Revision 11: 08/13/2021**

### 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 products described herein have been evaluated for compliance with the **7<sup>th</sup> Edition (2020) Florida Building Code** sections noted herein.

**DESCRIPTION: RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments**

**LABELING:** Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and FBC 1507.1.1.

**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 Evaluated"** may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

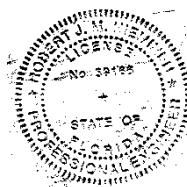
**INSPECTION:** Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

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 08/13/2021. 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.

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**ROOFING COMPONENT EVALUATION:**
**1. SCOPE:**
**Product Category:** Roofing

**Sub-Category:** Underlayment

**Compliance Statement:** RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments, as produced by Owens Corning Roofing and Asphalt, LLC, have demonstrated compliance with the following sections of the 7<sup>th</sup> Edition (2020) Florida Building Code through testing in accordance with applicable sections of the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

Section	Properties	Standard	Year
1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Tear strength	ASTM D4533	2015
1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Tensile strength	ASTM D5035	2011
1507.1.1.1(5) / R905.1.1.1(5)	Liquid water transmission	ASTM D4869	2016
1518.4, RAS 115	Unrolling, Breaking Strength, Pliability	ASTM D226	2009
TAS 110	Accelerated Weathering	ASTM D4798	2011

**3. REFERENCES:**

Entity	Examination	Reference	Date
ITS (TST1509)	ASTM D226	100539395COQ-006	10/26/2011
ITS (TST1509)	ASTM D4869	100539395COQ-002	10/26/2011
PRI (TST5878)	ASTM D226 / D4798 / D4869	OCF-394-02-07.4	01/06/2020
PRI (TST5878)	ASTM D226 / D4798	OCF-464-02-02.2	01/06/2020
PRI (TST5878)	ASTM D4533 / D5035 / D4798	1378T0109	10/15/2020
PRI (TST5878)	ASTM D4533 / D5035	1378T0127	10/15/2020
PRI (TST5878)	ASTM D8257-20	1378T0138	02/25/2021
PRI (TST5878)	ASTM D8257-20	1378T0139	03/23/2021
ITS (QUA1673)	ITS Audit Manual	3144566COQ-006A	09/10/2020
ITS (QUA1673)	Quality Control	Service Confirmation	08/13/2021
ITS (QUA1673)	Quality Control	Florida BCIS	Current

**4. PRODUCT DESCRIPTION:**

	Product	Specification	Plant(s)	Description
4.2	RhinoRoof U10	1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Qingdao, China	Multilayered polymer woven coated synthetic roof underlayment
4.1	RhinoRoof U20	1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Qingdao, China Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
4.2	ABC Pro Guard 20	1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
4.3	SRS TopShield TS20	1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5)	Silvassa, India	Multilayered polymer woven coated synthetic 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 pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.3 This Evaluation Report does not include evaluation of fire classification. 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.
- 5.4 **RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 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					
FBC NON-HVHZ:	1507.2	1507.3	1507.4 & 1507.5	1507.7	1507.8 & 1507.9
FBC HVHZ:	TAS 110(S10), RAS 115	TAS 110(S11), RAS 118, 119 & 120	RAS 133	TAS 110(S11)	RAS 130
Underlayment	Asphalt Shingles	Clay and Concrete Tile	Metal	Slate or Slate-Type Shingles	Wood
RhinoRoof U10	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
RhinoRoof U20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
ABC Pro Guard 20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
SRS TopShield TS20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes

## 5.6 Exposure Limitations:

TABLE 2: EXPOSURE LIMITATIONS	
Underlayment	Maximum Exposure (days)
RhinoRoof U10	90
RhinoRoof U20	90
ABC Pro Guard 20	30
SRS TopShield TS20	30

## 6. INSTALLATION:

6.1 **RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments** shall be installed in accordance with the manufacturer's published installation instructions 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 RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments:

#### 6.3.1 NON-HVHZ Jurisdictions:

6.3.1.1 Shall be installed in compliance with requirements for a synthetic underlayment in **FBC 1507.1.1.1(2, Exception), 1507.1.1.1(3, Exception) or 1507.1.1.1(5)** or **FBC Residential R905.1.1.1(2, Exception), R905.1.1.1(3, Exception) or R905.1.1.1(5)** for the type of prepared roof covering to be installed, and the manufacturer's installation instructions. FBC requirements take precedence over the manufacturer's installation instructions.

#### 6.3.1.2 Fasteners:

Minimum fasteners shall be corrosion resistant, ring-shank cap nails shall be as set forth in **FBC 1507.1.1.1 or 1507.1.1.3 or FBC Residential R905.1.1.1 or R905.1.1.3**.

#### 6.3.2 HVHZ Jurisdictions:

6.3.2.1 Shall be installed in a shingle fashion with minimum 4-inch wide side (horizontal) laps and minimum 6-inch wide end laps, and fastened in accordance with FBC HVHZ 1518.2:

- grid pattern of 12 inches between the overlaps, with 6-inch spacing at the overlaps

## 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 products and production locations having met codified material standards.

## 9. QUALITY ASSURANCE ENTITY:

Intertek Testing Services NA Inc. – QUA1673; (312) 906-7779; [maura.norlander@intertek.com](mailto:maura.norlander@intertek.com)

- END OF EVALUATION REPORT -


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## Product Approval

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FL #	FL18355-R8	
Application Type	Revision	
Code Version	2020	
Application Status	Approved	
	*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.	
Comments		
Archived	<input type="checkbox"/>	
Product Manufacturer	TAMKO Building Products LLC	
Address/Phone/Email	PO Box 97 Galena, KS 66739 (417) 624-6644 Ext 2305 kerri_eden@tamko.com	
Authorized Signature	Kerri Eden kerri_eden@tamko.com	
Technical Representative	Kerri Eden	
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (417) 624-6644 Ext 2305 kerri_eden@tamko.com	
Quality Assurance Representative		
Address/Phone/Email		
Category	Roofing	
Subcategory	Asphalt Shingles	
Compliance Method	Evaluation Report from a Product Evaluation Entity	
Evaluation Entity	UL LLC	
Quality Assurance Entity	UL LLC	
Quality Assurance Contract Expiration Date	06/01/2026	
Validated By	Robert Nieminen, PE	
	<input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received	
Certificate of Independence	<a href="#">FL18355_R8_COI_UL_Standards of Business Conduct - Independence.pdf</a>	
Referenced Standard and Year (of Standard)	<b><u>Standard</u></b>	<b><u>Year</u></b>
	ASTM D3161	2016
	ASTM D3462	2010
	ASTMD D7158	2019
Equivalence of Product Standards		
Certified By		
Sections from the Code		



Product Approval Method

Method 1 Option C

Date Submitted

03/28/2022

Date Validated

04/11/2022

Date Pending FBC Approval

Date Approved

04/16/2022

**Summary of Products**

FL #	Model, Number or Name	Description
18355.1	TAMKO Asphalt Shingles	ASTM D3462 asphalt shingles and hip and ridge shingles
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> N/A <b>Other:</b> See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL18355_R8_II_R2919-20130521-Report-Evaluation 03-29-2022.pdf</a> Verified By: UL LLC Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL18355_R8_AE_R2919-20130521-Report-Evaluation 03-29-2022.pdf</a>

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**Product Approval Accepts:**