

#### NEMO etc.

353 Christian Street, Unit #13 Oxford, CT 06478

(203) 262-9245

Revision 11: 12/11/2020

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

Date of Issuance: 02/06/2012

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 7<sup>th</sup> Edition (2020) Florida Building Code sections noted herein.

EVALUATION REPORT

TEST

EVALUATE

#### DESCRIPTION: Owens Corning Asphalt Roof Shingles

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and FBC 1507.2.7.1 / R905.2.6.1

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|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 10.

#### Prepared by:







- 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

- 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.

  NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.

  Robert Niemine, 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.

  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.

  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.

©2018 NEMO ETC. LLC



	TABLE 1: ASPHALT SHINGLE COMPONENTS				
Туре	Product	Plant(s)	Material Standard	Description	
Hip and Ridge Shingles	Berkshire* Hip and Ridge Shingles with Sealant	MN	ASTM D3462	fiberglass reinforced, hip and ridge	
	DuraRidge® Hip and Ridge Shingles with Sealant	MN			
	ProEdge®	GA, CA, OH, OR		asphalt roof sningles	
	WeatherGuard® HP Hip and Ridge Shingles	TN			

- This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designe 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).
- This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in 5.3
- accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.

  This Evaluation Report does not include evaluation of fire classification. 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.

  Wind Classification: Refer to Section 6 for insta

Refer to Section 6 for installation requirements to meet wind classifications			
TABLE 2A: WIND CLASSIFICATIONS, ASPHALT SHINGLES			
Product	FBC Table 1507.2.7.1 or R905.2.6.1		
Supreme*			
Berkshire*	1		
Duration® Premium	1		
Duration® Premium COOL	1		
TruDefinition* Duration*	ASTM D3161(F) & ASTM D7158(H)		
TruDefinition* Duration* Designer Color Collection	1		
Oakridge*	1		
TruDefinition* Oakridge*	1		
WeatherGuard® HP	1		

#### Classification by ASTM D7158:

ASTM D7158, Class Happlies only to **exposure category B or C** and a **building height of 60 feet or less**. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.



#### ROOFING SYSTEMS EVALUATION:

SCOPE:	
Product Category:	Roofing
Sub-Category:	Asphalt Shingles
Compliance Statement:	Owens Corning Asphalt Roof Shingles, as produced by Owens Corning, 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	<u>Year</u>	
	1507.2.4, R905.2.3	Physical Properties	ASTM D1970	2015	
	1507.2.5, R905.2.4	Material standard	ASTM D3462	2010	
	1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161	2016	
	1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158	2019	

3.	REFERENCES:			
	Entity	Examination	Reference	Date
	Owens Corning	Declaration	Equivalency Declaration	08/06/2019
	PRI (TST5878)	ASTM D1970	OCF-382-02-01	10/24/2017
	UL LLC (CER9626)	Physicals & Wind Resistance	File R2453, Vol. 3	02/15/2007
	UL LLC (CER9626)	Physicals & Wind Resistance	20120516-R2453	05/16/2012
	UL LLC (TST9628)	Physical Properties	06CA20263	04/18/2006
	UL LLC (TST9628)	Wind Resistance	11CA34308	02/18/2012
	UL LLC (TST9628)	Physicals & Wind Resistance	4786093137	02/01/2014
	UL LLC (TST9628)	Wind Resistance	4786126532	02/10/2014
	UL LLC (TST9628)	Physical Properties	Classification letter	02/13/2014
	UL LLC (TST9628)	Physical Properties	Classification letter	10/02/2015
	PRI (QUA9110)	Quality Control	Service Confirmation	04/05/2020
	PRI (QUA9110)	Quality Control	Florida BCIS	Current

		TABLE 1: ASPHALT SHINGLE C	OMPONENTS	
Туре	Product	Plant(s)	Material Standard	Description
	Starter Strip Shingle	H-TX, OR		
Accessory	Starter Strip Plus	MN, OR	ASTM D3462	starter strips for asphalt roof shingles
Starter Strips	SRS TopShield Starter	MN, OR	1	
	Starter Shingle Roll	NH	ASTM D1970	mineral-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen starte
	Supreme*	GA, CA, CO, I-TX, NJ, OH, TN, OR, IL	ASTM D3462	fiberglass reinforced 3-tab asphalt roof shingles
	Berkshire*	MN	ASTM D3462	fiberglass reinforced, 4-tab asphalt roof shingles
	Duration® Premium	CA, OR		
5 la la	Duration® Premium COOL	CA	1	fiberglass reinforced, laminated asphalt roof shingles
Asphalt Shingles	TruDefinition® Duration® TruDefinition® Duration® Designer Color Collection	IN, CA, CO, I-TX, FL, NJ, OH, MN, OR, GA, IL, TN	ASTM D3462	
	Oakridge*	GA, IN, CA, CO, H-TX, I-TX, FL, NJ OH, TN		
	TruDefinition Oakridge	H-TX, I-TX	]	
	WeatherGuard® HP	TN		

NEMO ETC, LLC

7<sup>TH</sup> EDITION (2020) FBC NON-HVHZ EVALUATION Owens Corning Asphalt Roof Shingles

Evaluation Report O37940.02.12-R11 Revision 11: 12/11/2020 Page 2 of 10



TABLE 2B: WIND CLASSIFICATIONS, STARTER STRIPS AND HIP & RIDGE				
Type Product		FBC Table 1507.2.7.1 or R905.2.6.1		
	Starter Strip Shingle			
Starter Strips	Starter Strip Plus	ASTM D3161, Class F		
	SRS TopShield Starter			
	Berkshire® Hip and Ridge Shingles with Sealant			
Hip & Ridge	DuraRidge® Hip and Ridge Shingles with Sealant	ACTIVA DOACA, Class 5		
Shingles	ProEdge®	ASTM D3161, Class F		
	WeatherGuard® HP Hip and Ridge Shingles	1		

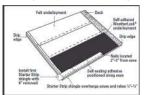
- 5.5.2 Refer to Owens Corning published information on wind resistance and installation limitations
- All components in the roof assembly shall have quality assurance audit in accordance with F.A.C. Rule 61G20-3 5.6 Refer to the Product Approval of the component manufacturer for components that are produced by a Product Manufacturer other than the report holder on Page 1 of this Evaluation Report.

6.	Installation:
6.1	GENERAL:
611	Boof dock close underlayment and factoners shall comply with ERC 1507.2 / BOOF 2 and the chingle

- manufacturer's minimum requirements. Underlayment shall be acceptable to the shingle manufacturer and shall hold current Florida Statewide Product 6.1.2
- Approval, or be Locally Approved per Rule 61G20-3, per FBC Sections 1507.2.3, 1507.2.4 or R905.2.3. Fasteners shall be in accordance with the shingle manufacturer's published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.
- Owens Corning asphalt shingles are acceptable for use in reroof (tear-off) or recover applications, subject to the limitations set forth in FBC Section 1511 or R908 and published installation instructions.

#### ACCESSORY STARTERS:

Installation of **Starter Strip Shingle**, **Starter Strip Plus and SRS TopShield Starter** shall comply with the Owen Corning current published instructions, using minimum five (5) nails per strip.





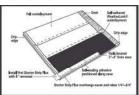


Figure 2: Minimum Nailing, Starter Strip Plus



#### Installation of Starter Shingle Roll shall comply with the Owens Corning current pub

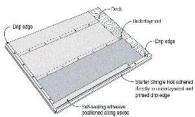
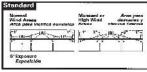


Figure 3: Starter Shingle Roll

- Installation of asphalt shingles shall comply with the Owens Corning current published instructions, using minimum four (4) nails per shingle in accordance with FBC 1507.2.7 or R905.2.6, with the following exceptions:
  - Berkshire\* shingles require minimum five (5) nails per shingle.
  - > WeatherGuard® HP shingles require minimum six (6) nails per shingle.

Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required Refer to Owens Corning published information on wind resistance and installation limitations.

#### 6.3.1.1 Supreme:





(Standard Size)

(Metric Size)

## NEMO ETC, LLC

7<sup>™</sup> EDITION (2020) FBC NON-HVHZ EVALUATION Owens Corning Asphalt Roof Shingles

Evaluation Report O37940.02.12-R11 FL10674-R16 Revision 11: 12/11/2020 Page 5 of 10

7<sup>™</sup> EDITION (2020) FBC NON-HVHZ EVALUATION Owens Corning Asphalt Roof Shingles

Evaluation Report O37940.02.12-R11 FL10674-R16 Revision 11: 12/11/2020 Page 6 of 10



## 6.3.1.3 <u>Duration® Premium, TruDefinition® Duration, Duration® Premium COOL & TruDefinition® Duration® Designer Color</u>

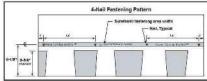


Figure 9: Standard 4-Nail Pattern, Duration

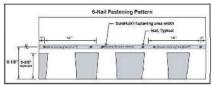
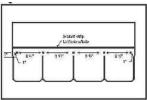


Figure 10: 6-Nail Pattern, Duration



Figure 11: Mansard or Steep Slope Pattern, Duration

#### 6.3.1.2 Berkshire\*:



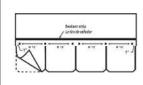
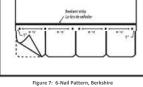


Figure 6: 5-Nail Pattern, Berkshire



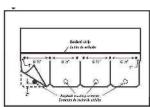
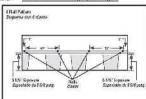


Figure 8: Mansard or Steep Slope Pattern, Berkshire

NEMO ETC, LLC Certificate of Authorization #32455

NEMO | etc.

## 6.3.1.4 <u>TruDefinition\* Oakridge\*, Oakridge\*:</u>



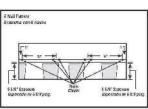
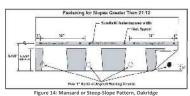
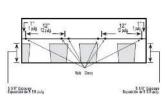


Figure 12: Standard 4-Nail Pattern, Oakridge

Figure 13: 6-Nail Pattern, Oakridge



6.3.1.5 WeatherGuard® HP:



6 Nail Pattern Esquema con 6 clavos Nail 6 1/8" from bottom of shingle Clave a 6 1/8 pulg, de la parts inferior de la teja 5 5/8" Exposurs Exposición de 5 5/8 pulg. Four 1" Spots of Asphalt Roof Cement Custro punitos de cemento de techo de asfalto de 7 pulgada

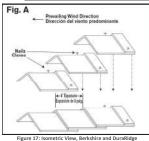
Figure 16: Mansard or Steep-Slope Pattern, WeatherGuard HP

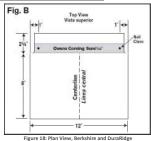


#### HIP AND RIDGE SHINGLES:

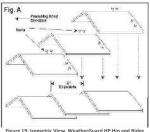
- Installation of asphalt shingles shall comply with the Owens Corning current published instruction
  - Berkshire\* Hip and Ridge Shingles with Seglant and DuraRidge\* Hip and Ridge Shingles with Seglant require minimum two (2) nails per shingle.
  - WeatherGuard® HP Hip and Ridge Shingles and ProEdge® require minimum four (4) nails per shingle Refer to Owens Corning published information on wind resistance and installation limitations.

#### 6.4.1.1 Berkshire® Hip and Ridge with Sealant and DuraRidge® Hip and Ridge Shingles with Sealant:





6.4.1.2 WeatherGuard® HP Hip and Ridge Shingles:



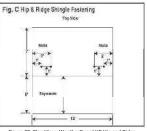


Figure 19: Isometric View, WeatherGuard HP Hip and Ridge

Figure 20: Plan View, WeatherGuard HP Hip and Ridge

NEMO ETC, LLC

7<sup>TH</sup> EDITION (2020) FBC NON-HVHZ EVALUATION Owens Corning Asphalt Roof Shingles

Evaluation Report O37940.02.12-R11 FL10674-R16 Revision 11: 12/11/2020 Page 9 of 10

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

SRS Distribution, Inc. 5900 South Lake Forest Drive Suite 400 McKinney, TX 75070

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

#### DESCRIPTION: SRS TopShield Ice & Water G300

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein

 $\label{eq:Renewal} \textbf{RENEWAL} \ of this \ NOA \ shall \ be \ considered \ after \ a \ renewal \ application \ has been \ filed \ and \ there \ has been \ no \ change \ in the \ applicable \ building \ code \ negatively \ affecting \ the \ performance \ of this \ product.$ 

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA ball be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA 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 NOA consists of pages 1 through 6.

The submitted documentation was reviewed by Freddy Semino

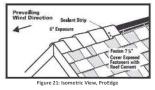






# NEMO | etc.

#### ProEdge®



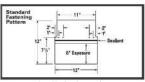


Figure 22: Plan View, ProEdge

## 7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of th

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.

## QUALITY ASSURANCE ENTITY:

ogies, LLC- QUA9110 ; (813) 621-5777; bwilson@pricmt.com

- END OF EVALUATION REPORT -

NEMO ETC, LLC

7<sup>™</sup> EDITION (2020) FBC NON-HVHZ EVALUATION Owens Corning Asphalt Roof Shingles

Evaluation Report O37940.02.12-R11

#### ROOFING COMPONENT APPROVAL

Category: Roofing Sub-Category: Underla Asphalt, SBS, Polyester Material:

This acceptance is for SRS TopShield Ice & Water G300 Underlayment, for use with approved prepared roof assemblies where the applicable TAS/ASTM specific underlayment is specified and installed with prescribed approved adhesives, fasteners and fastener densities, as described in this Notice of Acceptance; designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone of the Florida Building Code.

#### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
TopShield Ice & Water G300  Manufacturing Location #1 & #2	3' x 66'8" rolls 3' x 33'4" rolls	ASTM D1970	Fine granular surfaced, fiberglass reinforced, bituminous sheet material with a self-adhesive bottom layer, for use as an underlayment in sloped roof assemblies. Designed as an ice and water shield, and a shingle roofing underlayment.

#### MANUFACTURING LOCATION:

Greencastle, PA

Greencastie
 Belton, TX



#### EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Atlantic & Carribean Roof Consulting, LLC	ACRC06-013	TAS 103	06/14/06
PRI Asphalt Technologies	TOT-003-02-01 TOT-029-02-01 TOT-030-02-01 TOT-041-02-01 TOT-042-02-01	ASTM D226 Type II TAS 110, ASTM D249 & D 6380 TAS 110, ASTM D249 & D 6380 TAS 110, ASTM D226 Type II ASTM D4798 & ASTM G155	08/22/02 07/05/05 07/05/05 05/24/06 05/22/07
Trinity   ERD	T3580.10.06-2 T3580.10.06 T30160.08.09-RI T10550.07.08 T32530.08.10 T33190.08.10 T43930.09.13-R2 T40790.04.12 T40790.04.12 T37610.07.11	TAS 103 TAS 103, ASTM D6380 ASTM D1970 ASTM D4798 & ASTM D1970 TAS 103 TAS 104 ASTM D6380 ASTM D5380 ASTM D53909 TAS 114-D	10/26/06 10/12/06 10/12/10 07/30/08 08/17/10 08/06/10 09/11/13 04/06/12 04/06/12 07/29/11
IRT-Arcon	IRT07-0006 IRT 07-0036 IRT08-0002	ASTM D1970 ASTM D1970 ASTM D1970	07/11/07 02/22/08 02/22/08
NEMO etc.	TAR-SC8020.06.18 4j-TAR-19-SSUDL- 01.A	TAS 103, D4798 TAS 110	06/05/18 08/27/19

NOA No.: 20-0221.02 Expiration Date: 01/25/22 Approval Date: 03/19/20

- SRS TopShield Ice & Water G300 self adhering underlayment shall be applied to protrusions, slope changes, valleys, curbs, and other roof top penetrations before any other sections of the roof.
- When applying the underlayment in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in each direction. 19
- For ridge applications, center the underlayment and roll from the center outward in both directions. 20
- 21. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance and applicable Building Code.
- All protrusions or drains shall be initially taped with a 6" piece of like kind membrane. The flashing tape shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of like kind membrane shall be applied over the flashing detail.

#### GENERAL LIMITATIONS - SRS TopShield Ice & Water G300 SELF-ADHERED UNDERLAYMENT:

- Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code
- SRS TopShield Ice & Water G300 self adhering underlayment shall be applied only when material interface
- SRS TopShield Ice & Water G300 self-adhered underlayment shall not be installed when any form of moisture
- SRS TopShield Ice & Water G300 self-adhered underlayment is to be applied to a smooth, clean and dry surface, with the deck free from irregularities.
- Ensure roof has positive drainage prior to installation of SRS TopShield Ice & Water G300 self-adhered
- SRS TopShield Ice & Water G300 self-adhered underlayment shall not be applied over a pre-existing roof membrane or system.
- Care should be taken during the loading procedure to keep foot traffic to a minimum and avoid dropping the roof covering directly on the underlayment
- SRS TopShield Ice & Water G300 shall not be left exposed as a temporary roof for longer than 30 days after application. The manufacturer reserves the right to change product exposure period at any time; not to exceed the preceding maximum time limitations.

#### INSTALLATION REQUIREMENTS - SRS TopShield Ice & Water G300 SELF-ADHERED UNDERLAYMENT:

- SRS TopShield Ice & Water G300 self adhering underlayment shall be installed in strict compliance with applicable Building Codes
- Observe and comply with roofing practices and guidelines as outlined by the National Roofing Contractors Associations (NRCA) when installing SRS self adhering underlayment.
- During installation, comply with Occupational Safety and Health Administration (OSHA) safety standards; use common sense measures and adequate safety precautions to prevent accide
- TopShield Ice & Water G300 shall be an acceptable underlayment for asphaltic shingles, wood shakes and shingles, and slate or simulated slate roof assemblies.
- Re-fasten any loose decking panels, and check for protruding nail heads prior to the application of the SRS self
- SRS TopShield Ice & Water G300 self adhering underlayment shall not be adhered directly over any preexisting roof membrane
- All approved substrates are to be clean, dry and free of any loose debris or moisture prior to the application of the SRS TopShield Ice & Water G300 self adhering underlayment. Refer applicable building codes prior to installation to verify acceptable substrates. 7.
- Prime all metal collars, flashing, valleys, liner, drip edge and concrete deck substrate with ASTM D 41 primer, 8. ater based acrylic or water based polymer modified primer.
- Contractor may cut the underlayment into sections for workability and allow to relax prior to application.
- 10. Place the underlayment over metal drip edge in accordance with RAS 111.
- 11. Install the first course of underlayment parallel to the eave edge
- Apply the underlayment, working from the center of the material continuously to the ends of the sheet (half of the length of the sheet is the center); taking care to avoid wrinkles and ridges. 12.
- Remove the underlayment release film rapidly in a continuous fashion. Ensure the bottom adhesive side of the 13 membrane does not adhere to its self. In the event this transpires, separate the two layers immediately. After some time, it may become impossible to do so without damaging the material.
- 14. It is recommended that end laps be staggered a minimum of 18" from the preceding course
- The Underlayment is to be back nailed along the head lap. The nails shall be, 11 gauge  $1^{1}/_{4}$ " approved ring shank type applied with a minimum of a  $1^{5}/_{8}$ " approved tin cap or approved capnail as required per the High Velocity Hurricane Zone (HVHZ) section of the FBC, at a minimum rate of 9" o.c. The head lap of the 15. preceding layer of underlayment is to cover the area being back nailed.
- Roll or broom the entire membrane surface paying special attention to all overlap areas "side laps, end laps, T-joints" to ensure adhesion with acceptable substrates. A minimum of a 28 lb weighted roller may be used for steep slope applications. The use of a soft bristled push broom is acceptable on steeper slopes. The above mentioned procedures are necessary in order to apply uniform pressure and allow for contact of the membranes.
- Apply ½" thick uniform layer of SBS trowel grade modified bitumen asphalt adhesive / flashing cement throughout the contact area of the 6" granule over granule and fabric over fabric end laps. Once the aforementioned procedure has been completed, the membrane must then be hand rolled in place in order to ensure contact of membrane and achieve a minimum of 1/8\text{\text{m}} asphaltic bleed out in designated area.



NOA No.: 20-0221.02 Expiration Date: 01/25/22 Approval Date: 03/19/20

- If SRS TopShield Ice & Water G300 self-adhered underlayment or the ASTM standards are not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the product, wind uplift resistance, and fire testing results.
- 12. All products lised herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

## MANUFACTURER'S CONSIDERATIONS:

Code body requirements supersede manufacturer's recommendations and installation guidelines.

#### BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

- This Notice of Acceptance.
- Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of these materials.

All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



END OF THIS ACCEPTANCE





Page 5 of 6



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

#### MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786)315-2590 F (786) 31525-99 www.miamidade.gov/pera

## NOTICE OF ACCEPTANCE (NOA)

DuPont de Nemours, Inc. 1501 Larkin Center Drive Midland, MI 48642

#### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Minni-Dade County RER-Product Control Section to be used in Minni-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

Authority Having Jurisdiction (AHI).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHI (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHI may immediately revoke, modify, or suspend the use of such product or material fails to meet the requirements of the applicable obtained by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

## DESCRIPTION: DuPont Tyvek Roof Protector Underlayment

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Missuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA consists of pages 1 through 3. The submitted documentation was review

ntation was reviewed by Jorge L. Acebo.





NOA No.: 21-0617.05 Expiration Date: 06/10/26 Approval Date: 07/29/21

Scanned with CamScanner

#### BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

- This Notice of Acceptance.
   Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this material.

#### LIMITATIONS:

- 1. Fire classification is not part of this acceptance.
- This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3. DuPont Tyvek Roof Protector Underlayment shall be applied to a clean and dry surface.
- DuPont Tyvek Roof Protector Underlayment may be used with any approved roof covering Notice of Acceptance listing DuPont Tyvek Roof Protector Underlayment as a component part of an assembly in the Notice of Acceptance. If DuPont Tyvek Roof Protector Underlayment are not listed; a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uptifi resistance, and fire testing results.
- DuPont Tyvek Roof Protector Underlayment shall not be used on slopes less than 2:12. In general,
  on slopes less than 4:12, a double layer is recommended. Double layer application is best achieved
  by using 19" side laps, making sure the side laps are "shingled in" to shed water.
- All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
- 7. DuPont Tyvek Roof Protector Underlayment shall not be left exposed as a temporary roof for longer than 30 days after application.
- The manufacturer reserves the right to change product exposure period at any time; not to exceed the preceding maximum time limitations
- All packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and a yellow line in the center of the roll to identify the ASTM Standard designation or the Miami-Dade County Product Control Scal as shown below.



END OF THIS ACCEPTANCE



NOA No.: 21-0617.05 Expiration Date: 06/10/26 Approval Date: 07/29/21

Scanned with CamScanner

#### ROOFING COMPONENT APPROVAL

Category: Sub-Category: Linderlayment Polypropylene Material:

#### SCOPE:

This approves the DuPont Tyvek Roof Protector Underlayment, as described in this Notice of Acceptance; designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Elvarida Building Code.

#### PRODUCT DESCRIPTION:

Product	Dimensions	Test Specification	Product Description
DuPont Tyvek Roof Protector (Manufacturing location #1)	48" x 250' rolls & 42" x 286' rolls	ASTM D 226 Type i & II	polymer-based scrim-reinforced roofing underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin shet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.

EVIDENCE SUBMI	I LED;		
Test Agency	Test Identifier	Test Name/Report	Date
NEMO ETC. LLC	4i-ACT-21-SSUDI -01 A	ASTM D 226	05/24/21

#### MANUFACTURING LOCATION:

#### APPROVED ASSEMBLIES:

Wood, Non-insulated Deck Type 1: Deck Description: 19/12" or greater plywood or wood plank Anchor Sheet mechanically fastened to deck System E(1):

Anchor Sheet:

One or more plies of DuPont Tyvek Roof Protector underlayment, with a minimum 4" wide headlap and a minimum 8" wide end lap, mechanically fastened to deck with approved nails and tin caps 6" o.c. minimum at all laps and three staggered rows fastened in a minimum 12" o.c. equally spaced gird pattern in the field of the

Shall be acceptable for use in approved asphaltic shingles, wood shakes, wood shingles, non-structural metal roofing, and quarry slate. Must comply with applicable Roofing Application Standards and Building Codes.



Surfacing:

NOA No.: 21-0617.05 Expiration Date: 06/10/26 Approval Date: 07/29/21

Scanned with CamScanner

#### Application Instructions

application instructions. Before installing this product, check local building codes for their roofing requirements.

These shingles are designed for new or re-roofing work. O'ver any properly built and supported wood roof deck having adequate nail holding capacity and a smooth surface. Check local building codes.

#### Precautionary Note:

The manufacturer will not be responsible for problems resulting from any deviation from the recommended application instructions and the following precautions: Roof Top Loading: Lay shingle bundles flat. Do not bend ove

Regardless of deck type used, the roofing installer must:

Install the deck material in strict compliance with the deck manufacturer's instructions.

Prevent the deck fromgetting wet before, during and after installation.

installation.

Eave Flashing: Use Owans Coming self-sealing ice and water barrier or the caves in all regions of the country where roofs are susceptible to leaks from ice and water backup. Ventilation: Must meet local building codes

Handling: Use extra care in handling shingles when the temperature is below 40°F.

Storage: Store in a covered ventilated area at a maxmum temperature of 110°F. Bundles should be stacked flat. Protect shingles from weather when stored at the job site. Do not store near steem pipes, radiators, etc.

Fastiner requirement: Use galvanized steel, stainless steel, or aluminum nails minimum 12 gauge shank with W dismeter head. Owens Coming Roofing recommends that fasteners comply with ASTM F 1887. Check local building codes.



All Fasteners must penetrate at least %" into the wood deck or completely through sheathing.

Notice: Owens Corning Roofing recommends the use of nails as the preferred method of attaching shingles to wood decking or other nailable surface.

#### Instrucciones de aplicación

Instrucciones de apinicación
Antes de colocar este producto, verifique los códigos locales
de construcción para conocer los requisitos de su techo.
Estas tejas han sido diseñadas para la construcción de
techos nuevos o el arregio de techos existentes sobre
plataformas de maiera correctamente construidas y
que poseen una capacidad de sujeción de clavos y una
superficie lisa. Consulte los códigos de construcción locales.

## Aviso importante

El fabricante no se hará responsable por los problemas El rationicante no se mar responsacio por los protiomas que surjan como consecuencia de no seguji raxicamente las instrucciones de instalación recomendadas y de los siguientes avisos importantes: Carga sobre los techos: Coloque los paquens de tejas do marera plana sobre el techo. No los doble sobra la cumbrara

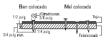
Plataforma del techo: • 6 pulgadas de mínimo sobre la estructura base del techo • 3º pulg. como mínimo de madera triplay • 1½ pulg. como mínimo para paneles de fibra orientada Cualquiera que sea el tipo de superficie utilizada, el instalador del techo debe:

- Instalar el material de la plataforma siguiendo estrictamente las instrucciones del fabricante
- 2. Evitar que la plataforma sa mrje antes, durante y después de

Ventilación: Debe cumplir con los códigos de construcción locales. Uso: Tenga micho cuidado al usar y colocar las tejas cuando la temperatura sea inferior a los 40°F

temperatura sea menor a tos 40 m. Amacenamiento: Almacena en un área cubierta y ventilada a una temperatura que no sobrepase los 110ºF/43ºC. Almacenar en formaplana. Proteja las tejas del cimacuanto las almacena en el lugar de trabajo. No las almacena carca de tubertas de vapor, radiadores, etc.

Requisito de sujetador: Use clavos de acero galvanizado, acero incedabla o de alumno, de celibre 12 com minma, con un dismismo de cabasa de 2e puig. Overas Corning Reofina recremenda que los sujetadores cumplan con la noma ASIME 1667. Corneulte los códigos de construcción loxales.



Todos los sujetadores deben penetrar al menos % pulg. en la plataforma del techo de madera o atravesar completamente los revestmentos de madera triplay.

Aviso: Owens Corning Roofing recomienda el uso de clavos como método preferido para fijar tejas a superficies de madera u otras superficies aptas para davos.

ROOF SURFACE MAY BE SUPPERY: Especially when wet or icy

FALLING HAZARD: Sec Unsecured manulating side on roof. Place on level plane or secure prevent slicing. Wear a hard hat.

WARN INCE This product contains a chemical known to the State of California to cause cancer. below work and materials on mof. roof. Place on level plane or secure to

EL TECHO PUEDE ESTAR RESBALOSO: Especialmenta quando west migado o cubierto de hielo. Al realizar la instalación, utilize un sistema de protección contra las caldas. Utilice appatos con suela degarma Carmina

can cureato.

PERCARDO E CÁDA DE OBETIOS: Asegure el área que se encuentra debaja de la cona de trabajo y los materiales que están sobre el tocho. Los materiales que no están sujetos pueden carese del tocho. Colóquelos en un lugar sin pendiente o sujetolos para que no se caigan. Use un casoo resisten ADVERTENCIA: Este producto contiene una sustancia gumca considerada cancerigena en el estado de California.

#### Specialty Eave Flashing: 1

Specially EWB Hashing:
Use Ownrs Coming' self-sealing ior
and water barrier on the saves in all
regions of the country where roots
are susceptible to leake stromice
and water backup. Apply starting at
the ave edge and ot

## Fig. 1 Specialty Eave Flashing Tapajuntas especial para aleros



para aleros:
Littleo la harvera autosellante resistente al agua y al hain de Charles Corring er insu aleros de todas las regiones del país en las que los techos estim espuestos a filtraciones por causa de la atrimitación de agua y neio. Para la instalación, comitinos en al horis del alero y extendid hains amba un minimo de 24 pulgidas desde la linea de la pared interior. Ver la Fig. 1.

Tapajuntas especial para aleros:

#### Underlayment: 2

Standard Slope (4" in 12" nrmnre) Application of underlayment, metal drip edges, and eaves flashing: See Fig. 2

(A) Apply one layer of underlayment over metal drip edge at eaves. Use only enough fasteners to hold in place.

(B) Overlap successive courses Overlap course ends 4". Side lap are to be staggered 6" apart.

(C) Apply metal drip edge over underlayment at rake.

## Fig. 2 Underlayment Standard Slope Pendiente esténdar del revestimiento



2 Revestimiento:

Pendiente estándar (4 pulg. cada 12 pulg. omás) Instalación del revestimento, bordes de goteometálicos y tapquntas de aleros: Ver la Fig. 2.

(A) Instale una sección del revestimiento sobre el goterón metálico del alero. Utilice la cantidad estrictamente necesaria de sujetadores paramentenería en su lugar. (B) Sobreponga las hileras siguientes 2 puig. Sobreponga los astremos de las hileras 4 puig. Los empairmes laterales deben escalonarse a 8 pies de distancia. (C) Instale el borde degoteo demetal sobre el revestmento en la comisa.

## Underlayment:

**Low Slope** (2" in 12" to less than 4" in 12"]

Application of underlayment, metal drip edges, and eaves fashing: See Fig. 3.

(A) Apply 19" starter strip of underlayment overmetal drip edge at eares. Use only enough fasteners to hold it in place.

(B) Use 36" strip of underlayment for remaining courses, overlapping each course 19. Side laps are to be staggered 6 apart.

(C) Apply metal drip edge over underlayment at rake.

Or WeatherLock" self-adhered underlayment or equivalent with a standard over lap cf3' and metal drip edge. See Fig. 3A

## Fig. 3 Underlayment Low Slope Pendiente baja del revestimiento

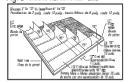


Fig. 3A Underlayment Law Slope Pendiente Daje del rerestimiento



#### Revestimiento: 3

Pendiente baja (2 pulg. cada 12 pulg., a menos de 4 pulg. cada 12 pulg.) Instalación del revestimento bordes de goteo metálicos y tapajuntas de aleros: Ver la Fig. 3.

 (A) Instale una sección inicial de 19 pulg. de revestmanto sobre el goteró metálico del alero. Utilice la cantidad estrictamente necesaria de sujetadores para mantanaria ansu lugar. (B) Use una sección de revestimento

de 36 pulg, para el resto de las hileras, sobreponiendo cada hilera 19 pulg. Los empaimes laterales deben escalonarse a 6 pies de distancia. (C) instale el borde de goteo de mital sobre el revestimento en la

O membrana autoadherente Waatharlindk" o equivalente con una superposición estándar de 3 pulg. y borde de escurrmento. Ver la Fig. 3A.

3

## 4 Shingle Fastening

Standard Pattern Use four

Six Nail Pattern Use six fasteners. See Fig. 4A

Marisard or Steep Slope
Fastening Pattern. Place fasten
Eis' trmhottrm edge to secure blayers of the shingle. See Fig. 4B.

## Shingle Side/Vew

RECUIRED: For slopes exceeding 60 degrees or 21 inches per foot, use sir fasteners and four spots of sapital root crimmt per shingle. Apply immoliately; one 1' dismitalt spoto' asphalt root community or committee of the spoto' asphalt root community or (per botterned) or shingle tab. Centre asphalt root commit of 2' one for botterned or shingle tab. See Fig. 48.

Roof Coment where required must meet ASTMD-4586 Type I or II

(Astastos Froe).
Six nali fastoning pattern is required for maximum wind warrany. In addition,
Owens Corning Starter Shingles are required along the cave and rake. (See Starter Shingle instructions for details.)

## Fig. 4 Standard Fastening Pattern Esquema de instalación estánda

5 5/6" Exposure Exposición de 5 5

EUV legann Eustada di Sai

Ţ

4Kali Pattern Jagorna con é ciavos

E 5/6" Exposure Exposición de 5 5/6 puig

EUV Sypour Evaluation in COVING

il Hall Fettoer Feograph can il checa

Haria

Fig.4A Six Nail Fasterling Pattern Esquama de instalación con seis clavos

Mansard or Steep Slope Fastening Pattern Control of the Pattern Cont

Francisco

Four 1" Sipate of Asphalt Cement Swere aurities de collières authition de 1

4. Sujeción de las tejas: Coloque los sujetadores a 614 puig a partir del borde inferior de cada teja y a 1 puig, de cada extremo.

teja y ar l'puig, de dans atmenti Esquema estándar, Utilica cuatro sujetadores. Ver la Fig. 4. Esquema con seis clavos Para 6 sujetadores. Ver la Fig. 4A.

sujetacores. Ver la rig. 4A.

Esquema de instalación en pendientes pronunciadas o mansardas. Coloque los sujetacores a 6½ pulg. del borde inferior para ajustar ambas capas de la teja. Ver la Fig. 4B.

#### Mitte letagel de la tale

REQUISITO: Para pendientee da mais de 80 grador o 21 pulg por più utilise sois sujetadorne y cuarro cantidades pequeñas de comercia estadado por teis, el line de comercia estadado por teis, el Instale irmediatamente ura sección con 1 pulg de dismistra de comenta estadado debajo on cada longuista de las tejas. Asegurese de que el comenta asfaltado deba por estadado de la tejas. Asegurese de que el comenta asfaltado esta centrado de la neguista de la teja. Per la Fig. 48. Cuando sea necesario utilizar de la Cuando sea necesario utilizar de sea necesario utilizar cemento para techos, éste debe cumplir con la norma ASTMD-4586 Tipo I ó II (sin asbestos).

El esquema de fijación de seis El esquema de fijación de seis clavos es obligatorio para la garantía máxima contra vientos. Además, es necesario instalar las tejas para la hiera inicial de Owens Coming' en las comisas de timpano y los aleros. (Consulte las instrucciones de las tejas para la hiera inicial para obtener información detallada).

#### Shingle Application:

mingle Application:
These shingles are applied with a Ed office, with 5% exposure, over prepared roof dock, starting at the Internot the roof and working across and p. This will blend shingles from one bundle into the next and minman any normal shade variation. Application with offsets of 4° or 8° are also acceptable.

Cause mines because of the contraction of the contrac

acceptable
Caution must be exercised to assure that and joints are no closer than 2" from fastener in the shingle below and hat side laps are no less than 4" in succeeding courses. Refer to noture application steps for specific instructions.

## Starter Course

Starfar Course:

Use an Owns Cerning "Starter shingle product or time?" If now has a starter course shingle product or time?" If now has a starter course shingle and fisher that of the starter course shingle and flushwith the drip odge along the rake and paves edge, and continue across the ror! Use if starteners for another time to the starter of the starteners for another order. See Fig. 16 fin oding begins used, shingles must extend a minimum of "#" and no more than 1" from rake and eaves edge.)

#### First Course:

Applyfirst course starting with the full shingle even with the starter course. See Fig. 5A. Fasten securely according to fastening instructions. See Fig. 4.

#### Second Course:

Second Course:

Remme (3d) from the left end of this shingle and apply the remaining piece over and above the first course shingle and flush with edge of the first course with EM\* exposure. See Fig. 5B. Faster securely according to fastening instructions. See Fig. 4

## Third Course:

Third Course:

Remove 13" from the left end of this shingle and apply the remaining piece over and shows the second course with edge of the second course with 60% exposure. See Fig. 5C Factor securely according to fastening instructions. See Fig. 4.



Fig. 5A Shingle Applicat

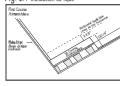
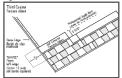


Fig. 5B ShingleApplication Instalación de tejas



Fig. 5C Shingle Application



#### Instalación de las tejas:

Installación de las tejas. Estas sigas as restalan con un desplazamento de 6/a pulg., con una superficie expuesta de 6/9 pulg., sobre plastáromas, de techar preparadas. La codicación comenza por la parte inferior del techo y se maiza an format transversal hacia arriba. Es estas de comenza de come un desplazamento de 4 ó 8 pulq. Asequirese de que las uninnas da las astrentas no sa actuantrea a manza do 2 pulg. del sujetador de la teja que se encuentar más abajo, y que las superposiciones lateralas no saan da minos de 4 pulg. en las hileras seguientes Consulte los pasos de instalación de hilesas para ver las instrucciones específicas.

#### Hilera inicial:

Hiera inicial:

Utilea un rollo de inicio o corte

### pull, de la teja de la hilara inicial.

Corte 6/4 pulg, desde la viga notirada
ni la tiga de la hilara inicial.

Ver la fire pul desde la viga notirada y el
mis alsa de la viga iniciirada y el
mis al contra de la viga iniciirada y el
mis de la viga iniciirada y el borde del alero.

#### Primera hilera:

Odoque la primira hilera comenzando con la teja entera dinaada con la hilara inicial. Ver la Fig. 54. Sujete firmamente de acuerdo con las instrucciones de sujeción. Ver la Fig. 4.

#### Segunda hilera:

Segunda hitera:

Cutin Et Pupil, del borde equierdo de esta teje y apricue la pieza restante sobre y per enchado la teje de la premara hitera y al las del borde de la primara hitera y al las del borde de la primara hitera, con Ethepuig, de exposición. Ver la Fig. 58 Sujete firmitamente de acusedo con las instituciones de supeción. Ver la Fig. 4.

Cutte 13 puig del borde izquierdo de esta toja y apilque la pieza restante sobre y por encimado la toja de la segunda hilera y al ras del borda da la segunda hilera, con Ele puig de exposición. Ver la Fig. SC Suste filmemente da acuardo con las instrucciones de sujeción. Ver la Fig. 4

(continúa en la página siguien

#### Shingle Application (cont.):

## Fourth Course:

Fourth Course:

Retmoe 198\* from the left end of this shingle and apply the remaining piece over and show the thirld colures shingle and flush with edge of the third course with 8th exposure. See Fig. 5D. Fasten securely according to fastening instructions.

See Fig. 4.

## Fifth Course:

FITT COURSE:
Remne 26" from the left end of this shiple and apply the remaining piece over and above the fourth course shingle and flush with edge of the fourth craums with flow exposure. Sine Fig. 5E. Fasten securely according to fasterning instructions.

#### Sixth Course

Remove 32% from the left end of this shingle and apply the remaining piece over and shows the fifth causes shingle and fush with edge of the fifth mursa with BM exposure. See Fig. 5F. Fasten securely according to fastening instructions. See Fig. 4.

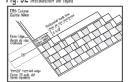
#### Succeeding Courses:

For succeeding courses, repeat first through sixth course. See Fig. 5G.

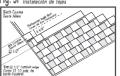
## Fig. 5D Shingle Application



## Fig. 5E Shingle Application



## Fig. 5F Shingle Application



## Fig. 5G Shingle Application Instalación de tajas



## 5 Instalación de las tejas (cont.):

## Cuarta hilera:

Cuarta Hildra:

Olutin 19/4 pulg del borde izquierdo de esta teja y aptique la pieza restante sobre y por ancritarda la teja de la trocera hiera y al rae del borde de la tenera hiera, con 6% pulg de exposición. Ver la Fig. 5D. Sujete firmamente de acuardo con las instrucciones de sujection. Ver la Fig. 4.

#### Quinta hilera:

Quinta hitera:

Quint 28 pulg del borde izquierdo de esta toja y aplique la pieza restante sobre y por encimade la teja de la cuarta hiera, a la rasda borde da la cuarta hiera, con Filis pulg de exposición. Ver la Fig. 56. Sujete firmemente de acuerdo con las interpreparados de aciencia. Mera la Filia de la cuarta filia de acuerdo con las interpreparados de aciencia. instrucciones de sujeción. Ver la Fig. 4

Sexta hilera Quita 32½ pulg. del borde izquierdo Cum a 2/8 pug de octre dequeres de esta teja y aplique la pieza restante sobre y por encimade la teja de la quinta hilera, y a l'an del borde de la quinta hilera, con Eté puig de exposición. Ver la Fig. 5F. Sujete filmemente de acurado con la sa instrucciones de sujeción. Ver la Fig. 4.

#### Hileras siguientes:

Para las hileras siguientes, repita los pasos que se indican deada la primera hasta la serta hilera. Ver la Fig. 5G.

Valley Construction: 6 Closed-Cut Valley See Fig. 6.

A closed-cut valley can be used as an alternative to woven and open valley and is applied as follows: Lay a 36" wide valley liner of set-achieved membrane underlayment or equivalent. A 36" wide an innum 50 th. 870 th surface foil roofing can also be used as a valley liner Lay 31 shingles on one side of valley and acrose center line of valley a minimum of 12". Bette a minimum of 6" away fromenser line on each sed of valley. Strike a chaik line 2" from the cantar line of the unshingled side. Apply shingles on the unshingled side up to the chaik line and tim', taking care not to cut the underlying shingles. Only upon control to the chair and Saten. So the worm and mistal valleys are acceptable alternatives. Lav a 36" wide valley liner of self

Fig. 6 Closed-Cut Valley Construction Construcción del valle con corte cerrado With Line Total Total Student Establei Thus adhino Aspitel Red Dened Compg. adhino are scha

6 Construcción del valle: Valle cerrado Ver la Fig. 6.

Un valle con corte cerrado puede ser usado como alternativa a un valle. tejido o abierto y se coloca de la siguiente manara:

sojutinte manaria
Coloque en el vialle un impamisabilizate arinadhesivo o equivalente con 38 pully de ancho Para revestra i avita, tambian a puede utilizar un rela valta, tambian de puede utilizar un rela de taschada de Diago. O colorio fodar las telipias sobre un ladin del valle y a trives de la linea central del valle y a trives de la linea central del valle al memos 12 pulg. Sujete a un minimo de 6 pulg de la linea central a cada ladio del valle Marque una lina de tiza a 2 pulg de la linea central del ladio que no tiene tejas. Calcique las tejas del ladio que no tiene tejas. Calcique las tejas del ladio que no tiene tejas. Calcique las tejas del ladio que no tiene tejas. Calcique las tejas del ladio que no tiene signi Sata filado que no tiene significa de de estas tejas, coloque cemento y sujete. Se pueden utilizar vallas da tejido o matal.

Step Flashing:

Use 10" long and 2" wider than expected exposure corrosion-resistant matal where roof planes buttagainst vertical sidewalls or chirmeys. See Fig. 7.



7 Revestimineto escalonado:

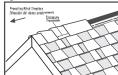
Unificamisal resistante a la corresión con una exposición de 10 puig. de longitud y de 2 puig. más de ancho que la exposición esperada en los puntos en los que los planos del tacho se unan a las paredes laterale verticales o a chimineas. Ver la Fig.

Hip & Ridge Application:

His a Ringe Application.

Lisa corresponding Owans Corning\*
Hip & Ridge shingles to best complement shingle color. Follow specific application instructions as printed on the Hip & Ridge shingle package. See Fig. 8.





Aplicación para caballete y cumbrera
Utilico Owans Corring" tojas para caballetes y cumbresa. Siga las instrucciones da restalación del paquete de caballetes y cumbreras. Ver la Fig. 8.

6. Nail hip and ridge shingle over the vent using nails long enough to meet the penetration requirements of the shingle manufacturer or use nails provided with the VentSure ridge vent. For a clean look, extend the hip and ridge shingle to cover the interlocking tabs or trim tabs off using a utility knife. See Fig. 6.

#### INSTRUCTIONS FOR CUTTING SLOTS Hip and Gable Roofs

Cut slot I" on both sides of ridge to v end wall or hip intersection. See Fig. 7.

Cut slots 12" from chimney. Run ridge vent fro end of roof to butt against chimney. See Fig. 8.

NOTE: Owens Corning's written warranty for this product shall not apply in any instance in which the product was not installed in accordance with the instructions contained herein. See actual warranty for additional warranty details.

LIMITED WARRANTY This product is covered by a Limited Warranty which is available by calling I-800-GET-PINK" or visiting our Web site at

www.ovensconing.com.
THAT WARRANTY CONSTITUTES OUR
EXCLUSIVE WARRANTY, AND WE HEREBY
DISCLAIM ALL OTHER WARRANTIES, WHETHER
EXPRESSED OR MIPUED. INCLUDING THE
IMPLED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE IN
NO EVENT SHALL OWENS CORNING BE LIABLE
TO CUSTOMER FOR INCIDENTAL, INDIRECT OR
CONSEQUENTIAL DAMAGES.



6" from end wall to slot

Fig. 8 + 12" |+ + | 12" |+ ...



3. Centre el respiradero sobre la apertura realizada en la cumbrera asegurándose de que apoye totalmente sobre el techo. También asegúrese de que las aletas de traba estén en la dirección opuesta a la que esté colocando la ventilación. Consulte la Fig. 3.

4. Al instalar los respiraderos, asegúrese de que encajen y atomillelos utilizando los orificios perforados en cada uno de ellos. Consulte la Fig. 4.

5. Con un cúter, corte el tramo final a un largo suficiente para que quede alineado con el borde del techo. Asegúrese de que las cofias integradas queden expuestas y fije con clavos. Consulte la Fig. 5.

NOTA: En la mayoría de los casos, no es necesario utilizar la traba para la última pieza.

6. Fije las tejas para lima tesa y cumbrera sobre la ventilación con clavos con una longitud que coincida con los requisitos de penetración del fabricante de las tejas o con los clavos provistos junto al respirador de cumbrera VentSure. Consulte la Fig. 6.

Para una apariencia prolija, extienda la teja para lima tesas y cumbreras de manera que cubra las aletas de traba o córtelas con un cúter.

#### Techos a dos aguas y con lima tesa

Corte ranuras de I pulgada a ambos lados de la cumbrera a una distancia de hasta 6 pulgadas de la pared o intersección con la lima tesa.

Consulte la Fig. 7.

Cortar las ranuras a 12 pulgadas de la chimenea. Coloque el respiradero de cumbrera desde el extremo del techo hasta tocar la chimenea. Consulte la Fig. 8.

NOTA: La garantía escrita de Owens Corning para este producto no se aplicará en casos en que el producto no se haya instalado de acuerdo con las instrucciones aquí mencionadas. Consulte la garantía para conocer los detalles adicionales.

GARANTÍA LIMITADA Este producto está cubierto por una Garantía Limitada, la cual está disponible llamando al I-800-GET-PINK® o visitando nuestro sitio web en www.owenscorning.com.

sitio web en www.ovenscorming.com.

SEA GARANTÍA CONSTITUTE NUESTRA
GARANTÍA EXCLUSINA Y POR LA PRESENTE SE
RECHAZAN TODOS LAS DENÁS GARANTÍAS,
EXPRESA GO INPLÍCITAS, INCLUYENDO LAS
GARANTÍAS INPLÍCITAS DE COMERCIABILIDAD
EI DONEDAD PARA UN PROPÓSITO
PARTICULAR EN INNICIÁN CASO OWENS
CORNING SERÁ RESPONSABLE ANTE EL
CUENTE POR DAÑOS INCIDENTALES,
INDIRECTOS O CONSECUENTES,



## Owens Corning VentSure® 4' Strip Heat & Moisture Ridge Vent

VentSure® 4' Strip Ridge Vents are designed for roofs with slopes of 3/12 to 16/12 pitches.

Intake at the eave vents should be equal to or that of the ridge vent being installed. VentSure vent is designed for residential applications.

- On architectural shingles, roofing cement should be used where the roof vent lower edge meets the laminate shingle to prevent wind-driven rain or snow to blow under the ridge vent.
- 2. Before applying vent to architectural shingles on new construction, leave felt long at ridge and fold back under vent or caulk between low areas of shingle and flange of vent, making sure you don't plug holes.
- 3. See instructions for cutting slot.
- For structures with different ridge heights, be sure to vent the higher ridge; it is also acceptable to vent lower ridges with dormers.
- 5. For best appearance, run VentSure ridge vent from end to end to give the roof a more attractive

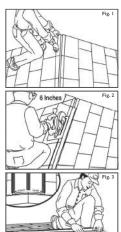
exputer ance. **6.** For truss rafters, cut a 1" slot on each side of the ridge starting a minimum of 6" from the rake edge of the roof. For roofs with a center pole, cut a  $1 \mid 1/2$ ' slot on each side of the ridge starting a minimum of 6" from the rake edge of the roof.

#### Installation Instructions

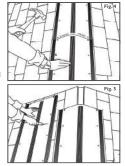
- 1. Using a chalk line, mark out 1" on both sides of the ridge as a guide for cutting a slot in the top of the ridge. See Fig. 1.

NOTE: Start the cut 6" from the edge of the roof. Remove the sheathing debris from slot.

- 3. Center the vent over the opening that has been cut in the ridge, ensuring the vent sits flat on the roof. Also ensure that the interlocking tabs are facing the opposite direction you will be installing the next piece of ridge vent. See Fig. 3.
- A. As you install the vents, ensure each vent is snapped together, then nail in place using the nail holes marked on each vent. See Fig. 4.
- 5. Using a utility knife, cut the final piece to a length long enough so that it is flush with the edge of the roof. Connect making sure that the built-in end caps are exposed and nail in place. See Fig. 5.
- NOTE: In most cases, the final piece will not use the interlocking feature.







#### Ventilación de Cumbreras VentSure® en Tira de 4 Pies Para la Eliminación del Calor y la Humedad

Las ventilaciones de cumbrera VentSure® de 4 pies están diseñadas para pendientes con inclinacio de 3/12 a 16/12.

La entrada de los respiraderos de los aleros debería ser igual o mayor a la del respiradero para cumbrera que se está instalando. Los respiraderos de cumbrera VentSure se han diseñado para

#### IMPORTANTE:

- Sobre las tejas arquitectónico debe aplicarse adhesivo para techados en la unión entre el borde inferior del respiradero del techo y la teja laminado para evitar que se introduzzan lluvia o nieve bajo l cumbrera por la acción del viento.
- 2. Antes de colocar un respiradero sobre teias 2. Antes de colocar un respiradero sobre tejas arquitectónicas en una nueva construcción, deje un excedente de fieltro sobre la cumbrera y dóblelo introduciéndolo debajo del respiradero, o selle los espacios entre las áreas bajas de la teja y el ala del respiradero asegurándose de no obstruir orificios. 3. Consulte las instrucciones para saber cómo realizar el corte de la ranura.
- En el caso de estructuras con cumbreras a diferentes alturas, ventile la cumbrera más alta; también es aceptable ventilar las cumbreras más bajas con buhardillas.
- 5. Para mayor estética, coloque el respiradero de cumbrera VentSure de una punta a otra para darle al techo un aspecto más atractivo.
- 6. En el caso de los cabrios del armazón, corte una ranura de I pulgada a cada lado de la cumbrera ranura de I puigada à cada lado de la cumbrera comenzando a un mínimo de fo pulgadas de la comisa del tímpano del techo. En el caso de techos con un poste central, corte una ranura de I I/2, puigada a cada lado de la cumbrera comenzando a un mínimo de 6 pulgadas de la comisa del tímpano del techo.

 Trace líneas con tiza de modo de dejar I pulgada de cada lado de la cumbrera y utilizarlas como guía para cortar una ranura en su parte superior.

Consulte la Fig. 1.

Abra la ranura con una sierra circular, introduciendo la hoja a una profundidad suficiente para cortar solamente el revestimiento de mader Consulte la Fig. 2.

NOTA: Comience a cortar a 6 pulgadas desde el borde del techo. Limpie los vestigios del revestimiento de la ranura.



# ProEdge® Hip & Ridge Shingle Installation Instruction

Complete shingle application on roof deck before applying hip and ridge shingles. Hip shingles must be applied before ridge shingles. Note: If a new roof is being applied over an existing roof, remout the old hip and ridge shingles to obtain a level application. Each shingle is perforated for separation into three Hip & Ridge shingles

#### Precautionary Notes

The manufacturer will not be responsible for problems resulting from any deviation from the recommended application instructions and the following precautions.

- (A)Handling: Use extra care in handling shingles when the temperature is below 40°F (5°C). DO NOT drop bundles. Shingles can be broken easily in cold weather or their edges damaged in hot weather DO NCT attempt to separate shingles by "breaking" themover another object such as a ridge.
- (B) Fastener requirement: Use galvanized steel, stainless steel, or alumnum nails minimum 12 gauge shank with 3/8" diameter head. Owens Corning" ser claimeter head. Owers Corning: mercmmends that fasteners comply with ASTM F 1667. Check local building codes. All fasteners mil.s penetrate at least 1/4 into the wood deck or completely through plywood or OSB sheathing.
- plywood or OSB sheathing. (C) Fastening: Drive all fasteners until they are flush with the surface of the shingle. Special care must be taken when using pneumatic nail guns Nalls and to be driven straight so the entire head is flush against the shingle but does not cut the shingle surface. An improperly adjusted pneumatic gun can result in raised fasteners causing sealing failure, raised tabs, leaks, or blow-off. Place fasteners S AV from the exposed edge of the shingle Do not apply. exposed edge of the shingle. Do not apply fasteners in the sealant strip.

(D)Storage: Store in a covered, ventilated area at amaximum temperature of 110°F (43°C). Stack in a flat fashion (maximum of 24 bundles high). Protect shingles from weather when stored at the job site. Do not store near steam pipes, radiators, etc

(E) All exposed material must be rated Class A by Underwriters Laboratories, to maintain a Class A system.

#### Hip & Ridge Application

- . Apply Hip & Ridge as shown, bending them over the hip or ridge lengthwise
- 2. Apply ridge after hips have been applied, beginning on end of ridge opposite prevailing wind direction. See Fig. 1
- 3. Apply shingles with 6" exposure
- 4. Fasten each shingle with 2 fasteners on each side, 1 inch and 2 inches from the edge and 6¼ inch from the exposed end. See Fig. 2
- 5. Apply remaining hip and ridge shingles in the same manner with a 6 inch exposure
- When finishing the ridge, leave no headlap portion of the last hip and ridge shingle exposed. One option is to use the 6 inch exposed portion of a hip and ridge shingle, cutting a piece the appropriate length to extend over the headlap portion of the shingle to the end of the ridge.
- Fasten final piece with four nails, each I inch and 2 inches in from each side edge and I inch in from the end of the ridge. Cover exposed fasteners with asphalt roof rmmt. Asphalt roof cement must meet ASTM D-4586 Type I or Type II (Asbestos

## Installing Double Hip & Ridge

Applying a double layer of shingles to hip or ridges is easy to do and creates a mor aesthetically pleasing appearance. Simply

install the shingles using thempthod described above, but fasten two shingles simultaneously—one on top of the other Make sure fasteners are long enoughto penetrate through both layers of shingle and completely through the roof deck. See Fig. 3

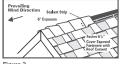


Figure 2

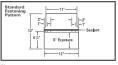
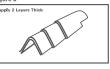


Figure 3



CAUTION: DO NOT MX MATERIAL BEARING DIFFERENT LOT NUMBERS, REFER TOTHEI OT NUMBERS I OCATED ONTHE SIDE OF THE BUNIT IF



OWENS CORNING ROOFING AND ASPHALT, LLC ONE OWENS CORNING PARKWAY TOLEDO, OHIO, USA 43659

1-800-GET-PINK® www.roofing.owenscorning.com

Pub. No. 10010622-A, Printed in U.S.A. October 2019. THE PINK PANTHER\* & © 1964–2019 Metro-Goldwyn-Mayer Studios In All Rights Reserved. The color PINK is a registered trademark of Owens Corning. © 2019 Owens Corning.





OWEST TO THE TIME AND THE TIME TO THE TIME





Complete la aplicacion de las tejas sobre la plataforma del techo antes de aplicar las tejas de caballete y cumbrera. Los tejos de caballete deben aplicarse antes que los tejos de cambrera.

deben apricarse antes que los tejos de cumbrero.

Nota: Si se aplica un nuevo techo sobre

otro existente, quite las tejas de caballete y

cumbrera viejas para obtener una aplicación

nivelada. Cada teja esta perforada para

separarla en tres tejas de caballete y cumbrera.

separaria en tres tejas de cabanete y cumbre Notas de precaution El fabricante no se hara responsable por los problemas que surjan como consecuencia de no seguir exactamente las instrucciones de instalación recomendadas y los siguientes avisos importantes.

- avisos importantes.

  (A) Uso: Tenga mucho cuidado al usar y colocar las teiga cuando la temperatura sea inferior a los 40°F (5°C), INO DEJE CAER los paquetes, las tiejas pueden ormoperse facilmente en el clima finio o sus bordes pueden daharse en el clima caldo. NO intente separar las teigas rompiendolas sobre otro objecio como una cumbrera.

  (B) Requisito de sujetadore: Use clavos de acero galavitado, acero inovidable o de aluminio, de calbre 12 como inisimo, con un diametro de cabeza de 30° pulg. Overso Corning' como la norma ASTM F1667. Consulte los codiços de construccino locales. Todos los sujetadores deben penetrar al menos ¼ pulg, en la plataforma del techo de madera o atravesar completamente los revestimientos de madera tralpa y o de madera por entada y de madera y de mader
- de madera urpialy o de madera onemada (CSB).

  (C) Aplicación de sujetadores: Coloque todos los sujetadores hasta que esten a nivel de la superficie de la teja. Debe tener mucho cuidado cuando utiliza pistolas neumaticas. Los clavos deben colocarse de manera recta de modo que la cabeza quede nivelada contra la teja pero sin coriar la superficie de la teja. Una pistola neumatica incomectamente calibrada puede hacer que los sujetadores queden levantados y se pierda el sellado, o se levanten las lenguetas y se produzan filtraciones y voladuras de tejas. Coloque los sujetadores a 6½ pulg. del extremo inferior. No aplique sujetadores en la tira de sellador.

- (D)Almacenamiento: Almacene en un area cubierta y vertileda a una temperatura que no sobrepase los 110º (d'3ºC). Apile de manera horizontal (hasta 24 paquetes maximo). Proteja las tejas del clima cuando las almacene en el lugar de trabajo. No las almacene cerca de tuberias de vapor, radiadores, etc.
- (E) Todo el material expuesto debe calificarse como Clase A por *Underwriters Laboratories*, para mantener el sistema Clase A.

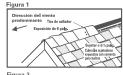
## Instalación de las tejas de caballete y

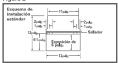
- Aplique las tejas de caballete y cumbrera como se muestra, doblandolas sobre el caballete o la cumbrera a lo largo.
- Aplique las tejas de cumbrera despues de que se hayan instalado las tejas de caballete, comenzando por el extremo de cumbrera opuesto a la direction del viento predominante. Ver la Fig. 1
- Aplique las tejas con 6 pulg, de exposition.
- Sujete cada teja con 2 sujetadores a cada lado, a 1 pulgada y a 2 pulgadas de distancia del borde y a 6 ½ pulgadas del extremo expuesto. Ver la Fig. 2
- Aplique el resto de las tejas de caballete y cumbrera de la misma manera, con un exposition de 6 pulgadas.
- exposition de 6 pulgadas.

  Cuando haya terminado con la cumbrera, no deje ningun area para superponer expuesta en la ultima teja de caballete y cumbrera.

  Una option es usar la portion expuesta de 6 pulgadas de la teja de caballete y cumbrera, cortando un pedazo que tenga la longitud apropiada y que se extienda sobre la portion de superposition de la teja hasta el extremo de la cumbrera.
- de la cumbrera. Sujete la pieza final con custro clavos, cada uno a I pulgada y a 2 pulgadas hacia adentro desde cada costado del borde y a pulgada hacia adentro desde el borde de la cumbrera. Cubra con cemento asfaltico los sujetadores expuestos. El cemento asfaltico debe cumpler con la norma ASTM D-4586 Tipo I 6 Tipo II (sin asbestos).

Instalación de tejas de caballete y cumbrera dobles Aplacar una capa doble de tejas para caballetes y cumbreras es el note una apariencia y cumbreras es el naciona de apariencia el caballetes es el note de como de la com







# OWENS CORNING ROOFING AND ASPHALT, LLC



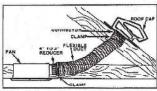




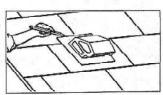
## **ROOF VENT KIT** INSTALLATION INSTRUCTIONS

Ptan installation carefully. Roof cap will accept 3" or 4" round duct. Tape all joints with duct tape to prevent air and water leaks.

NOTE: DO NOT INSTALL THE ROOF CAP ON A FLAT ROOF.



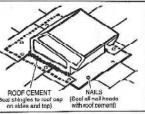
- Cut a 5" diameter hole through roof boards and shingles. Insert 4" metal duct connector into opening in bottom of mol cap.
- 3. Insert duct connector/roof cap assembly into hole in roof.



Trace outling of roof flange onto shingles.

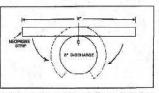


- 5. Trim shingles as shown, so they will fit snugly around hood of roof cap when installed. Seal all around duct with roof cement.
- 6. Slide 4" hose clamp over end of flexible hose and attach hose to connector. Tighten clamp securely.
- Insert hose and connector into hole in roof.



- Cerefully lift shingles and silde back flange of roof cap un-der chingles. Nail flange to roof under shingles at top and two sides. Nail directly to roof at bottom.
- Use most cement to seal shingles to top and sides of roof cap. Seal all nail heads with roof cement as well.

NOTE: Use as short a duct run as possible, for best fan per-formance, if the 8-host length is more than needed, cut hose to desired length.



Slide hose clamp over free end of hose and faster hose to ran discharge collar.

NOTE: If discharge collar on fan is 3° diameter, use the neo-prope strip to increase the diameter to 4°

- To Install the neoprene strip:
- 1. Center it on the top of the discharge collar.
- 2. Remove the paper backing.
- Smoothly wrap it around the discharge collar so that the pressure-sensitive adhesive hours it in place.

99040569F

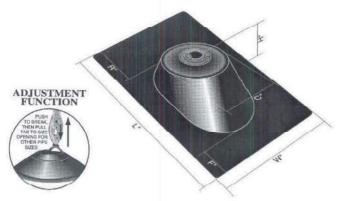
Scanned with CamScanner



#### Hard Base—Multi-Size Roof Flashing

## SPECIFICATION:

Furnish and install hard plastic base roof vent flashing with adjustable, multi-size elastomer collar. Unit shall be Water-Tite item number checked below as manufactured by IPS Corporation, as per corresponding dimensional characteristics, or equivalent. (Do not use Petroleum based mastics, sealing compounds, or  $paints\ on\ collar\ portion\ of\ all\ flashings,\ on\ all\ hardbase,\ flexible\ ,\ or\ rain\ collars.)$ 





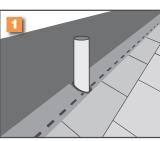


Florida Building Code Approved

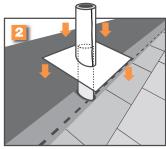
Product Code	Model	Vent Size	Dim. W	Dim. L	Dim. R	Dim. F	Dim. C	Dim. H
81700	HB31	1 ¼" - 3"	11 1/4"	15"	3 ½"	2 ½"	5 3/10"	2 %"
81709	HB41	1 ¼" - 4"	12"	15 ½"	3 %"	2 1/8"	6 ¼"	2 9/10"



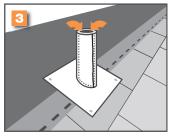
## INSTALLATION GUIDELINES **LEAD PIPE FLASHING**



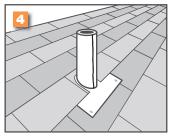
1. Shingle up to the roof penetration



Slide flashing over the vent pipe and secure with roofing nails.
 The lead pipe flashing should be at least 1.5" taller than the exposed vent pipe.



Roll the top of the lead pipe flashing into the vent pipe to create a long lasting water resistant seal that is finished in appearance.

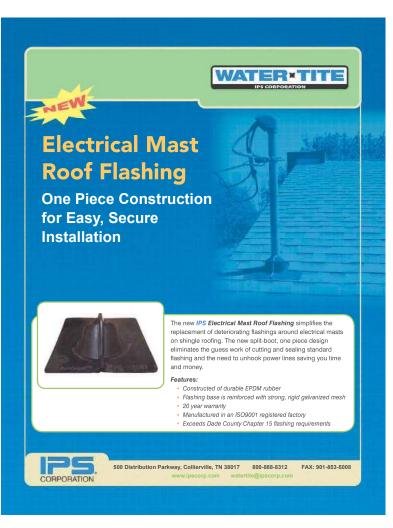


4. Continue shingling above the vent pipe. Apply roofing mastic to the top of the flange before installing upper side shingles



#### **CAUTION!** Working above grade is inherently dangerous, be sure that proper fall protection measures are in place.

When working with power tools and sheet metal, gloves and eye protection are absolutely required.





## **Installation Instructions**

- 1. Apply shingles up to lower edge of electrical mast.
- 2. Cut flashing opening to appropriate size for pipe.
- 3. Wrap flashing around electrical mast and close by crimping stainless steel clips (supplied).
- 4. Apply sealant to underside of base and secure base with roofing nails.
- 5. Apply sealant around the top of the electrical mast flashing where it meets the pipe, and along the joiner seam.
- 6. Finish applying shingles over sides and upper portion of electrical flashing base.

When properly installed, the lower approximately one-third of the base will be on top of shingles while the upper approximately two-thirds of the base will be covered by shingles as shown.





10200 Eastport Road Jacksonville, Fl 32218 877-358-7663

## Off Ridge Vent Installation (with or without detachable baffle)

A. Preparation
To prepare roof for installation it will be necessary to determine how many and what type of vents will be needed for the project.

Off Ridge Ventilation should be installed as evenly as possible across the roof section. The roof vent should be installed a minimum of 6" off the peak of the ridge. Cut out sizes are located below in *Table 1-1*.

#### IMPORTANT NOTE: DO NOT CUT INTO RAFTERS OR TRUSSES.

When installing vents on an existing shingle roof remove shingles from the sides and top of the opening. Remove any nails that interfere with installing the vent. This typically includes nails that are to be 3" within the body of the vent. Shingles and existing nails should remain on the bottom slope up to the cut opening.

Roof cement is necessary around the perimeter of the underside of the vent to seal it to the underlayment or shingles. The cement should also be installed on the vent completely cover back and side flanges. The cement should be \(^2\). Which can should the vent should be \(^2\). Which can should the vent should a lierally have shingles installed up to the cut opening. The lower portion of the vent should sit on the roof cement. Shingles should be civered with

B. Opening & Positioning
The cut opening should be positioned a minimum of 10" from the back flange. This allows a minimum clearance of 2-1/2" from the roof to the top of the vent. The vent should be centered horizontally over the

anng.							
	Off Ridge Vent Installation Chart						
	Length	Net Free Area (sq in)	Cut Out Size				
	4'	115	46" x 2-1/2"				
	6'	175	70" x 2-1/2"				
	8'	235	94" x 2-1/2"				
1.11	10°	295	118" x 2-1/2"				

- C. Fastening of the Off Ridge Vent

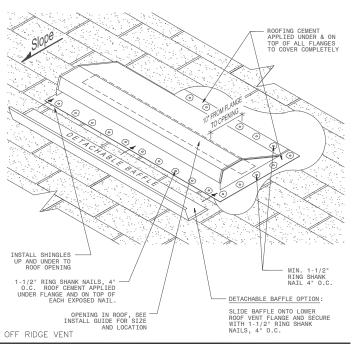
  1 If using detachable buffle, attach the buffle by sliding it onto the lower flange of roof vent.

  Care should be taken to see it is flush with front flange of vent. Secure as indicated on

#### Nail must be ASTM F1667 compliant in accordance with Florida Building Code Section 15.

88- (
26 gauge (.0179 min) ASTM A-653 Steel G-90 Commercial Steel Type B
26 gauge (.0179 min) ASTM A-755 Ptd Steel Commercial Steel Type B
Ptd Aluminum (.025 min) ASTM B-209 *





## JCK Enaineerina

Specialty Structural Engineering

#### **Evaluation Report**

FLAMCO "Off-Ridge Vent" Roof Vent

#### Manufacturer:

#### Florida Metal Products, Inc.

6940 Stuart Avenue Jacksonville, FL 32254

for

## Florida Product Approval

# FL 21580.1 R1

Florida Building Code 6th Edition (2017)

Method: 2 - B Category: Roofing

Roofing Accessories that are an Integral Sub - Category:

Part of the Roofing System

Product Name: "Off-Ridge Vent" **Product Description:** Roof Vent Attached To Wood Deck

#### Prepared by:

James L. Buckner, P.E., SECB Florida Professional Engineer # 31242 Florida Evaluation ANE ID: 1916 Project Manager: Diana Galloway Report No. Report No. 17-185- ORV-ER (Revises 16-143-ORV-ER, FL 21580.1)
Date: 9/18/17

Contents:

Evaluation Report

Pages 1-9



2017.10.19 20:13:36 -04'00

CBUCK, Inc. dba CBUCK Engineering
Phone: (561) 491-9927: #anis: <a href="mailto:buck@buckinc.net">buck@buckinc.net</a>; Website: <a href="mailto:www.buckinc.net">www.buckinc.net</a>; www.buckinc.net
iness: 1374 Community Dr., Jupifer, Fl. 33458: \*Corp/Mailing: 2337 E. Haltantic BMd, #34069, Pompano Beach, Fl. 33062

## CBUCK Engineering

FL#: FL 21580.1 R1 Date: 9/18/17 Report No.: 17-185-ORV-ER Date:

#### Specialty Structural Engineering

CBUCK, Inc. Certificate of Authorization #8064

#### 10.0 Performance:

10.1 Wind Resistance

Table A			
Allowable Loads			
Design Uplift Pressure	-46 PSF		

Allowable design pressure(s) for allowable stress design (ASD) with a margin of safety of 2 to 1.

## 11.0 Performance Standard:

The following test protocols were performed to demonstrate compliance with the intent of the code:

11.1 ASTM E330-02 — Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors and by Uniform Static Air Pressure Difference

## 12.0 Code Compliance:

12.1 The product assembly described herein has demonstrated compliance with the Florida Building Code 6th Edition (2017) Section 1708.2.

#### 13.0 Limitations and Conditions of Use:

- 13.1 Design of support system is outside the scope of this report. Support shall be structural framing members complying with the code and shall be designed by others.

13.2 Scope of "Limitations and Conditions of Use" for this evaluation; This evaluation report for "State Approval" contains technical documentation, specifications and installation method(s) which include "Limitations and Conditions of Use" throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under "State Approval".

authority to approve products under "State Approval".

13.3 Option for application outside "Limitations and Conditions of Use"

Rule 61620-3.005(1)(e) allows engineering analysis for "project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code". Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others.

- 13.4 This report is a building code product evaluation per FLPE rule (FAC) 6135-36 to comply with Florida product approval rule (FAC) 61G20-3. This evaluation report is part of the Florida Building Commission approval for the listed code related criteria. This report by James Buckner, P.E. and CBUCK Engineering is not a design certification of code compliance construction submittal documentation, per FBC section 107, for any individual structure, site specific or permit design,
- 13.5 Structural loads shall comply with the design provisions of the FBC 6th Edition (2017), Chapter 16, Section 1609.
- 13.6 All metal components and fasteners shall be corrosion resistant in accordance with FBC, including but
- limited to Sections 1504.3.2, 1506.6 and 1507.4.4.

  13.7 Refer to applicable building code section for ventilation requirements.
- 13.8 Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation.
  13.9 This report does not evaluate the use of this product assembly as described in this report for use in the High Velocity Hurricane Zone code section. (Dade & Broward Counties)

#### 14.0 Quality Assurance:

The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through Keystone Certifications, Inc., (FBC Organization #QUA ID:1824).

## IBUCK Engineering

FL 21580.1 R1 FL#:

Specialty Structural Engineering

Florida Metal Products, Inc. dba FLAMCO 1.0 Manufacturer

6940 Stuart Avenue Jacksonville, Florida 32254 http://flamco.com

2.0 Manufacturing Plant: Jacksonville, Florida

3.0 Product:

"Off-Ridge Vent" 3.1 Product Name 3.2 Product Description: Roof Vent

4.0 Evaluation Scope:

4.1 Compliance with the following
Florida Building Code 6th Edition (2017)

4.2 Evaluation Method:

Florida Product Approval Rule 61G20-3.005 (2) (b)

4.3 Evaluation Classification:

Category: Roofing
Sub Category: Roofing Accessories that are an Integral part of the Roofing System
4.4 Properties Evaluated

Structural (Wind Resistance) Properties

This product assembly evaluation is limited to compliance with section 4.1 to section 4.4 of this

5.0 Evaluated Uses: FLAMCO "Off-Ridge Vent" is used as a roof ventilator.

## 6.0 Product Assembly Description:

6.1 General:

The FLAMCO "Off-Ridge Vents" are low profile, off-ridge roof vent for pitched roofs fabricated from 26 gauge, G-90 primed, galvanized steel with a galvanized steel mesh covering mechanically attached to Plywood Deck.

7.0 General Assembly as Evaluated: Refer to section 15.0 of this report for product assembly components/materials & standards.

8.0 Support System:

(Design of support system is outside the scope of this evaluation.)

8.1 Type:

Wood Deck 15/32" (min.) or greater plywood, or 8.2 Description:

Wood plank deck (based on minimum density/specific gravity of 0.42)

Minimum slope shall be 2:12. (and in compliance with FBC Chapter 15 based on the type of roof covering, applicable code sections and in accordance with manufacturer's recommendations.

## CBUCK Engineering Bate: 9/18/17 Report No: 17-185-ORV-ER Page 4 of 5

CBUCK, Inc. Certificate of Authorization #8064

FL 21580.1 R1

FL #:

Specialty Structural Engineering

15.0 System/Components 15.1 "Off Ridge Vent"

15.1.1 Material: Steel 15.1.2 Thickness: 26 gauge (min.)

15.1.3 Yield Strength: 40 ksi min.

15.1.4 Corrosion Resistance: In compliance with FBC Section 1507.4.3:
ASTM A792 coated, or ASTM A653 G90 galvanized steel

15.1.5 Overall Product Dimensions (± ½" nominal): 15.1.5.1 Length(s): 2', 4', 6' and 8' (max.) 15.1.5.2 Width: 23-1/2" (max.) 15.1.5.3 Height: 4-1/2" and 8-1/2" (max.)

15.2 Fastener:

15.2.1 Rase Fastener Attaches Roof Vent to Deck Smooth or Ring Shank Roofing Nails 15.2.1.1 Type: 15.2.1.2 Size: 11 gauge × 2" (Long) 15.2.1.3 Corrosion Resistance:

15.3 Roof Adhesive:

15.3.1 Type: Standard Heavy bodied Flashing Cement 15.3.2 Description: Asbestos-free asphalt based roof cement

15.3.3 Application Size: 15.3.4 Standard: 1/4" thick (min.) Per ASTM D 4586 Type I

15.2.1.4 Standard:

16.0 Installation Method:

(Refer to installation method at the end of this evaluation report.)

Prepare deck opening by trimming any shingles or tiles & existing nails that may interfere with ridge vent installation. Apply roof cement to the underside, back and side flanges of the ridge vent. Cement should be a 1/4" thick and extend 2" onto roof underlayment. (Install cement in compliance with manufacturer's installation guidelines.) Position vent base flange beneath loosened shingles and align with deck opening. Attach the unit side flanges to deck with fasteners per Section 15.2.1 spaced 4" o.c. and 1" from each end. Apply Roofing Cement to exposed fastener heads. Minimum fastener penetration thru bottom of support,

Per ASTM F 1667

The FLAMCO "Off-Ridge Vent" shall be installed in compliance with the installation method listed in this report and applicable code sections of FBC 6th Edition (2017). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

17.0 Evaluation Reference Data: 17.1 ASTM E330-02 Uniform Static Air Pressure Difference Test

By Fenestration Testing Laboratory, Inc. (FTL) (FBC Organization #TST ID: 1657) Project #16-6647, Lab #9124, Dated: 11/09/16

17.2 Quality Assurance

By Keystone Certifications, Inc. (FBC Organization #: QUA 1824) Licensee #440

17.3 Engineering Analysis By James L. Buckner, P.E. @ CBUCK Engineering (FBC Organization # ANE 1916)

17.4 Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering

(FBC Organization # ANE 1916)

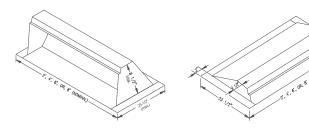


Specialty Structural Engineering

FL 21580.1 R1

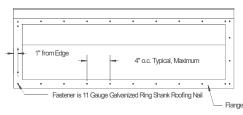
## Installation Method FLAMCO

## "Off-Ridge Vent" Roof Vent





"Off-Ridge Vent" (for Shingle Roofs) Isometric View



Top Plan View (Typical Fastening Pattern) (Not to Scale)

## DuPont™ Tyvek® Roof Protector™ - Product Information

#### FEATURES/BENEFITS

Description
Descri

Typek' Roof Protector" is tough and tear-resistant, laying flat and staying flat for easier installation and better coverage per roll. Its high strength to weight ratio, slip-resistant surface and lightweight drability offers peace of mind to professional builders and homeowners alike.

Tyvek" Roof Protector" is available in 10 square rolls: 42" x 286'/1.1m x 87.2m (93.0m²)

Tvvek® Roof Protector™ preserves the roof deck during installation, minimizing tearing at fastener points as a result of its excellent strength and deck grip. Tyvek\* Roof Protector\* comes with a number of features and benefits:

- Lightweight material lays flat, stays flat and repositions with ease
- Large roll provides maximum coverage for quick installation
- . Features 2" chalk mark guide lines for easier shingle alignment
- Acts as an effective secondary moisture barrier
   Withstands up to 90 days of UV exposure and comes with a 20-year limited warranty
- Low flame spread with a class "A" fire rating per ASTM E108
- Florida Building Code approved and meets AC188 (Intertek CCRR-1062), ASTM D226 Types 1 & II, CAN/CSA A123.3, CAN/CSA A220.1

DUPont" Tyvek" Roof Protector" exhibits physical properties as indicated in Tables 1 and 2 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M/SDS) before use. Please contact DuPont at 1-800-488-9835 when additional guidance is required for writing specifications that include this product.

## TABLE 1: Physical Properties for Tyvek® Roof Protector

Test Method	Property	Typical Value	Units
ASTM D1777	Nominal Thickness (mm)	0.254	mm
ASTM D1777	Nominal Thickness (mils)	10	mils
ASTM D4869	Liquid water transmission	Pass	
ASTM E96	Permeability (MVTR)	< 0.05	Perms
ASTM D751	Tensile strength (MD / CD)	MD: 102 CD: 90	lbf
ASTM D751	Elongation (MD / CD)	MD: 17 CD: 18	%
ASTM D4533	Tear strength (MD / CD)	MD: 25 CD: 40	lbf
ASTM E108	Fire rating	Class A	
ICC-ES AC188	UV exposure	90	
Thermal Cycling	Temperature range	-40-240 (-40-115)	"F ("C)
ICC-ES AC188, per Intertek CCRR-1087	Code approvals	Pass	

#### TABLE 2: Specifications for Tyvek® Roof Protector®

Specifications	Typical Value	Units
Length per roll	286	ft
Width per roll	42	in
Weight per roll	20	lb
Roll size	42"x286' (10 square)	square
Rolls per pallet	49	
Pallet weight	1,095	lb
Weight per square	2.04	lb
Marranty	20	Heart



DuPont" Tyvek" Roof Protector" is an engineered synthetic roofing underlayment with a high strength to weight ratio. Brought to you by DuPont, the trusted name in total building envelope solutions. DuPont" Tyvek" Roof Protector" is ideal for steep slope roofing applications under asphalt shingles or

DuPont" Tyvek" Roof Protector"	
Roll Size (10 square)	42" X 286'
Rolls Per Pallet	49
Roll Weight	20 lbs
Warranty	20 years
UV Exposure	3 monthss
Roof Types	
Asphalt Shingle	✓
Metal Cladding	/
Recyclable	/
ASTM D226 Types I & II	/
AC188	/
Intertek CCRR-1087	/
(in) Class A Per ASTM E108	/















## DuPont™ Tyvek® Roof Protector™ - Installation

#### PRECAUTIONS

#### Safety

- · Apply Tyvek" Protec" taut and wrinkle-free. Do not stretch. Do not apply Tyvek® Protec™ over wet or frost-covered
- Do not apply Tyvek' Protec" over wet or frost-covered roof sheathing.

  Caution should be taken when walking on Tyvek' Protec" until it has been fastened according to instructions.

  Caution should be taken when walking on Tyvek' Protec" when it is wet or frost-covered.
- Use fall protection when working on roof. Refer to OSHA safety
- regulations 29 CFR1926 subpart M. Consult your local DuPont" Tyvek" Specialist for additional
- information.

#### Preparation

- Apply Tyvek® Protec™ over a dry, smooth, clean and defect-free roof deck. Tyvek® Protec™ cannot be installed over existing
- Typek Protect symmetric that the space beneath the roof sheathing is properly ventilated before installing to avoid condensation problems.

## INSTALLATION INSTRUCTIONS

- Lay courses of Tyvek" Roof Protector" horizontally in "shingle style" fashion following the lap lines provided in 4" course overlaps and 6" end laps beginning along the eave edge. Offset end laps in successive courses by 6 feet.
- 2. When attaching  $\textbf{Tyvek}^{\text{\tiny{B}}}\,\textbf{Roof}\,\textbf{Protector}^{\text{\tiny{M}}}$  to the roof sheathing:
- 2. When statching jyvek koof Protector to the root sheatning:
   When used under asphalt shingles, and metal roof cladding,
   "diameter (min) metal or plastic (ring shank or smooth shank) cap-nails or cap-staples are required.
   When used under asphalt or metal roof cladding, "diameter (min) metal or plastic cap-nails or cap staples are recommended Un-capped staples or standard conting nails may be used if shingles are installed within 36 hours (unless rain or high winds are expected). Use of un-capped fasteners may result in a risk of blow off or leakage around the fastener penetrations during a wind or rain event.
   All anchoring must be performed flush to the roof and
- All anchoring must be performed flush to the roof and 90 degrees to the roof deck.
- Install fasteners 12" on center (o.c) along course and end over-laps and a single row 24" on center along the middle line of the field. Use the printed pattern as a guide.
- 3. In high wind zones (at or above 100 mph per IRC R3012), fasteners must be installed at all printed locations on the DuPont. "Devel Roof Protector." It must be fastened using corrosion-resistant metal or plastic cap nails with a head diameter of at least 1" and a thickness of at least 32-gauge sheet metal. The cap-nail shank shall be a minimum of 12. gauge (0.105 inches) with a length to penetrate through the roof sheathing of a minimum of % inch into the roof sheathing.

- Apply Tyvek\* Roof Protector\* with two layers on roofs with slopes between 2:12 and up to 4:12. Begin with a 26' undercourse strip parallel to the eave edge, and then cow with a full width sheet. Overlap successive sheets by 26".
- Install Tyvek® Roof Protector™ over drip edges along eave edge and under drip edges along rake edges.
- 6. Lap Tyvek\* Roof Protector™ 8" (min) onto walls
- Line roof valleys with a sheet of Tyvek" Roof Protector" prior to installing horizontal courses of Tyvek" Roof Protector". Lap the ends of horizontal Tyvek" Roof Protector" courses over the valley sheet by 6".
- 8. At ridges and hips where ridge vents will not be applied, cross-lap Tyvek? Roof Protector" from one roof plane onto the other by 6. For additional weather protection, apply a 24" wide sheet of Tyvek? Roof Protector" across hips and ridges.

#### DuPont™ Tyvek® Roof Protector™ – Warranty Information

#### 20-Year Limited Product Replacement

This is not a Consumer Warranty.

DuPont provides the following warranty to Builders, General Contractors or Professional Installers upon the terms and conditions set forth herein. Warranty is not transferable.

The DuPont" Tyvek' Roof Protector" product originally installed as a standard part of the building envelope on a building roof identified by ICCES ACIBS in North America entitles you to certain quality assurance standards as provided in this DuPont" Tyvek' Roof Protector" Product Replacement 20-Year Limited Warranty ("warranty").

This 20-Year Limited Warranty is effective for this product purchased and installed after June 1, 2017...

#### Product Only Warranty

E. I. du Pont de Nemours and Company ("DuPont") warrants E.1. du Pont de Nemours and Company ("DuPont") warrants that the DuPont". Tywek "Roof Protector" Product originally installed on a roof having a minimum 2:12 slope will meet the "Pass" requirements of ICC-ES ACI88 for its liquid water holdout property in effect at the time of purchase of the DuPont" Tywek "Roof Protector" Product for a period of twenty (20) years after the date of purchase when the problem is caused solely by the failure of DuPont" Tywek "Roof Protector" Product to meet that property. If the DuPont" Tywek "Roof Protector" Product is repaired or replaced, the warranty will continue from the original date of purchase and not from the date of repair or replacement.

- This warranty DOES NOT COVER any damages arising from:

  1. The negligence, gross negligence, or willful misconduct of any builder, general contractor, professional installer or any third party
- Acts of God, including but not limited to, fire and lightning
- Acts of God, including but not limited to, fire and lightning, hurricane, high winds;
   Vandalism or attack by any party;
   Defects in the structure or a component of the structure (e.g., window, skylight, chimney, vents, etc.) or selection of any components of the structure, or premature deterioration of the building materials, or nonstandard use or application
- of the building materials, or nonstandard use or application of the buPont" Tyvels' Roof Protector" Product;

  5. Foreign objects or agents, including incompatibility of materials;

  6. UV exposure of the DuPont" Tyvels' Roof Protector" Product in excess of that set forth in the applicable Physical Properties Data Sheet;

  7. The warranty is void if the Product is used as a permanent
- primary water barrier.
- primary water barrier.

  8. Improper installation of the DuPont" Tyvek' Roof Protector" 
  Product, improper building practices or design not in 
  accordance with the applicable building orde or industry 
  standards, or any deviation from approved construction 
  plans or project specifications. The DuPont "Tyvek' Roof 
  Protector" Product must be installed in accordance with the applicable DuPont Installation Guidelines that are in effect at the time of the installation of the DuPont" Tyvek" Roof Protector\* Product. Installation Guidelines are available by calling 1-800-448-9835 and online at roofprotector.dupont.com.

Rake Edge: All regular underlayments go under the drip edge. When a style D drip edge is used shingles can be flush with the drip edge or by W to W.

igure 2 Recommended Drip Edge

table Drip Edge

FASTENER REQUIREMENTS

Use galvanized steel, stainless steel, or aluminum and % diameter head Fasteners should comply with ASTM F1667 Check local building codes. Fasteners must penetrate % into wood decking

Decks less than %" thick—fastener must pe completely through minimum %"

starter shingle is used on the rake edge it should also overhand the drip edge %" to %"

Eaves:
All underlayment goes on top of drip edge unless otherwise specified by local codes.
Shingles should overhang the drip edge % to %.
Shingles can be flush with the drip edge if D style.

What DuPont Will Do and What You Must Do
DuPont will provide to the Builder, General Contractor or
Professional installer only that quantity of replacement product Professional installer only that quantity or replacement product required to replace any defective product that falls to meet the "Pass" requirements of ICC-ES AC188. You will be responsible for any other costs associated with or arising out of the repair or replacement. You must reasonably cooperate with DuPont or its representatives in their efforts to perform their obligations under these warranties, such as providing access in order to view installed product or to obtain samples for testing.

#### How You Can Get Warranty Service

How You Can Get Warranty Service
To obtain service under this warranty, you must promptly contact
DuPont at roof-protector dupont.com or call 1-800-448-9835
regarding any potential claim, but no later than sixty (60) days
after you discover any potential claim and you MUST provide
DuPont with proof of purchase of the DuPont "Yyek" Roof
Protector" Product, You must provide DuPont with a reasonable
reconstruit to preport the bore or building within its risk. (60) days opportunity to inspect the home or building within sixty (60) days after DuPont receives notice of your potential claim

You must also provide access to DuPont for recovery of samples of the used product from the actual installation in sufficient quantities in order to perform testing to determine whether or not the DuPont "Tyvels" Roof Protector" Product failed as set forth herein. If obtaining the required samples proves not to be feasible, then, in the atternative, DuPont may use retainer samples of product manufactured from the same lot as those used in the actual installation.

Exclusion of Damages
DUPONT'S SOLE LIABILITY UNDER THIS WARRANTY IS LIMITED
TO REPLACEMENT OF THE ROOF PROTECTOR" PRODUCT TO REPLACEMENT OF THE ROOF PROTECTOR" PRODUCT COVERED BY THIS DUPONT WARRANTY ONLY WHEN CAUSED SOLELY BY THE FAILURE OF THE DUPONT" ROOF PROTECTOR" PRODUCT TO MEET THE APPLICABLE LIQUID WATER HOLDOUT PROPERTY AS REFERENCED ABOVE AND THE CONDITIONS SET FORTH ABOVE. EXCEPT AS SPECIFICALLY PROVIDED HEREIN, DUPONT SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR FROM ANY DIRECT. INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOST PROFITS, LOST REVENUE, LOSS OF LIKE OR DAMY DEPENDED OF MIND THE CONTRACT. LOSS OF USE OR ANY BREACH OF ANY EXPRESS OR IMPLIED

The foregoing is the only warranty made by DuPont for the Roof Protector\* Product. No representative, dealer or any other person is authorized to make or makes any warranty, representation or promise on behalf of DuPont with respect to such product. No promise on behalf of DuPont with respect to such product. No terms or conditions other than those stated herein or provided by law, and no agreement or understanding, oral or written, in any way purporting to modify this warranty shall be binding upon DuPont unless made in writing and signed by an authorized employee of DuPont.

#### This Warranty is Not a Performance Claim.

\*This warranty is effective June 1, 2017.

#### **ROOFING APPLICATIONS**

#### DECK REQUIREMENTS

- Minimum 6" width, 25/32" minimum thickness w Minimum %" plywood sheathing or 7/16" OSB Sheathing spaced minimum %" and maximum %" Check local building codes
- mping" or Deck Deflection (Sag)



#### METAL DRIP EDGE

2012 International Residential Code (IRC) requires drip edge at the of the roof. The IRC has required drip edge since the 2009 edition.

- Apply directly to deck along eave unless otherwise specified by local Apply over underlayment along rake. With drip edge—shingles could be flush to edge or overhaing % to % Drip edge is a requirement for Platinum and Preferred Contractor wa

Drip Edges provide efficient water shedding at the rivide and exict and protect the underlying shoot from plant plant gold and should be made of a component plant protect and should be provided to the plant the dip edge undermeath the undelly invested allow give even plant plant

Figure 1 Application of Drip Edge at Rake and Eaves







NG APPLICATIONS

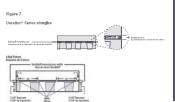
# NAME OF

ure 5 Mansard Roof Hand Sealing Example









- Imperial 3 Tab = 5" exposure
  Metric 3 Tab = 5" exposure
  Laminates = 5%" exposure
  Acceptable tolerance: Plus or minus %

#### UNDERLAYMENT APPLICATION; SLOPES # 4:12

Some building codes have specific requirements for underlayment and/ice dam protection The requirements of these codes must be followed.





# Uncompromising Quality in Residential Roofing

Starter Shingle +

TopShield Starter + Shingles are designed with a strong adhesion to lock shingles in place to prevent blow-off along the eave of the roof, Starter Shingles eliminate the need to cut off tabs or headlap.

For application to the eaves prior to shingle application. Allows for proper alignment of the courses of shingles.

#### CONVENIENT

One (1) bundle provides 105 lineal feet of actual coverage.

#### ADVANTAGES:

- Reduces waste.
- . Clean Look at the edge and eave.
- . Fast and easy to install.
- . Creates a seal for the first course of shingles.
- \* Eliminates the need for plastic cement.



#### **Product Specifications**

3926	151/s" x 391/s" (394 mm X 1000 mm)	
Piece Size	7 3/4" x 393/4" (197 mm X 1000 mm)	
Shingles per Bundle	16	
Pieues per Bandle	32 (7°/4" x 39°/4" [197 mm X 1000 mm]	
Lineal Feet per Bundle	Approximately 105 (32 0 m)	

Applicable Standards and Codes		
ASTM D3462		
ASTM D3161 (Class F-Wind Resistance)		
ASTM E108/UL 790 (Class A Fire Resistance)*		
Florida Product Approval (FL18674)		
Miami-Dade Country Product Approval (Pending)*		
UL ER2450-01		
THE PERSON NAMED OF THE PE		

#### SRS Distribution Inc. TopShield Materials

7440 S. Hwy 121 McKinney, TX 75070

469.421.0616 www.srstopshield.com



#### **EAVES PROTECTION MEMBRANE**



#### EAVES PROTECTION MEMBRANE

#### PRODUCT REQUIRED FOR THIS STEP:

#### INSTALLATION OF EAVES PROTECTION MEMBRANE













#### OVERLAPS





#### TopShield Starter Shingle + Installation Instructions

The TopShleld Starter Shingle + is designed for use with most asphalt shingles. When using this starter shingle it is recommended that you check for any exclusion by the manufacturer of shingle being used.

TopShield Starter Shingle + is designed to be broken into two pieces, each piece has its own scalant strip. When separated each starter shingle is 7% x x 39 %, each bundle will cover approximately 105 lineal feet. See Fig. 1.

This starter can be used with shingles that have an exposure of no more than 6 inches, if the exposure is greater than 6 inches a full starter (15% x 39%) would be required. See Fig. 7.

- Start first starter shingle with 6" removed from the rake edge and flush with the drip edge, starter shingle can extend no greater than % beyond the edge of the eaves. Use 5 tasteners placed 2" to 3" from the edge of the eaves. See Fig. 2.
- During application the installer must ensure that when the starter is applied that the over laying shingles end joints do not line up with the starter end joints. End joints must be a minimum of 4" from the over laying shingle.
- When the starter is used with 3-tab shingle the installer must ensure that nails in the starter are not exposed between the cutouts of the over laying shingle.

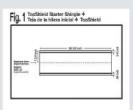
#### Tejas para la hilera inicial TopShield Instrucciones de instalación

La hilera inicial de tejas + TopShield se puede utilizar con la mayoría de las tejas de astato. Al utilizar esta hilera inicial, recomendamos comprobar si existe alguna incompatibilidad con las tejas del fabricante que esté utilizando.

La hilara inicial de tejas + TopShield está diseñada para dividirse en dos partes. Cada parte cuenta con su propia tira de sellado. Al separarse, cada hilara inicial tiene un tamaño de 7 <sup>34</sup> x 39¾, Cada paquete cubre aproximadamente 105 pies lineales. Ver la Fig. 7.

Esta hilera iniciai puede utilizarse con tejas + que quedan expuestas 5 pulgadas como máximo. Si la zona que queda expuesta supera las 6 pulgados, se necesitará utilizar una hilera inicial más grande (15½-239%) Ver la Fig. 1,

- Coloque la hilera inicial de tejas "y hágala allinear con el goterón. La teja de la hilera inicial no puede sobrepasar el borde del alero más de % Utilice 5 sujetadores colocados de 2" a 3" del borde del alero. See Fig. 2.
- 2. Durante la colocación, el instalador debe asegurarse de que, al colocar la hilera de inicio, las juntas de los extremos de las telas superpuestas no estén alineadas con las juntas de los tejas de inicio. Las juntas deben estar a una distancia minima de 4º de las tejas superpuestas.
- Cuando se utiliza una hilera de inicio para tejas de tres lengüetas, el instalador debe asegurarse de que los clavos de la hilera de inicio no queden expuestos entre las ranuras de las tejas superpuestas.





#### CAUTION

## ROOF SURFACE MAY BE SUPPERY

FALLING HAZARD: Secure area belo Wear a hard hat w work and materials on roof.

#### NOTICE

It is important that attic space be properly ventilated to maintain product perference on to prevent demayer from inosistre condensation and excessively high attic temperatures. In this regard, FHA and National Building Code Maintown Property Standards must be met.