



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) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Vermont Slate Company, LLC.
2600 Louisville Road
Savannah, GA 31415

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 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: Cupa Dover Black, Vermont Gray/Black, Vermont Gray/Green Roofing Slate

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. 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 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 revises NOA# 23-0215.02 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.



NOA No. 23-0524.02
Expiration Date: 05/10/28
Approval Date: 06/29/23
Page 1 of 7

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Roofing Slate
Materials: Slate
Deck Type: Wood
Slope: 3-1/2 :12 or greater

SCOPE:

This approves a roofing system using Cupa Dover Black, Vermont Gray/Black and Vermont Gray Green Roofing Slate, as described in this Notice of Acceptance, which is designed to comply with the Florida Building Code. For the locations where mean roof height, as determined by applicable building code, does not exceed 33 feet. For cases above 33 feet roof mean height, maximum design pressure is to be calculated in accordance RAS 127 with values in tables in “Data for Attachment Calculations” herein to determine allowable use.

PRODUCT DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Cupa Dover Black Slate <i>Manufacturing Location #1</i>	24” maximum Length Various width ¼”-3/8”minimum thickness.	TAS 110	Natural quarried Slate for roofing stock.
Vermont Gray/Black Slate <i>Manufacturing Location #2</i>	24” maximum Length Various width ¼”-3/8”minimum thickness.	TAS 110	Natural quarried Slate for roofing stock.
Vermont Gray/Green Slate <i>Manufacturing Location #2</i>	24” maximum Length Various width ¼”-3/8”minimum thickness.	TAS 110	Natural quarried Slate for roofing stock.

COMPONENTS OR PRODUCTS MANUFACTURED BY OTHERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>	<u>Manufacturer</u>
Copper Slating Nail	Min. #10 gauge 1 ½” solid copper, annular ring shank roofing nails, various lengths.	TAS 114, Appendix 'C'	Copper Roofing Nails	Generic
Stainless Steel Nails	12ga. x 1-3/4” stainless steel ring shank, roofing nails	n/a	Stainless Steel Nails	Generic
M-1	n/a	TAS 123 (A)	Universal Adhesive and Sealant	Chem Link, Inc.

MANUFACTURING LOCATION:

1. LaMedua, Spain
2. Poultney, Vermont



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Asphalt Technologies, Inc.	VERM-001-02-01	TAS 100	04/29/16
	VERM-005-05-01	TAS 102	04/29/16
	VERM-002-02-01	ASTM C 406	04/29/16
	1799T0005	TAS 102	05/22/23



APPROVED SYSTEMS:

- Deck Type 1:** Wood, Non-insulated
- Deck Description:** New Construction: 19/32" or greater plywood or wood plank
- Slope Range:** 3-1/2:12" or greater
- Underlayment:** Install in accordance with the F.B.C. requirements. Minimum underlayment shall be a Double layer application of ASTM D 226 type I felt installed with a minimum 19" side lap and 6" end - laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1-1/4" annular ring-shank nails, spaced 6"o.c. at all laps and two additional rows 12"o.c. in the field of the roll. Or, any Miami-Dade County Product Control Approved underlayment having a current NOA.
- Valleys:** Install in accordance with the F.B.C. Valley metals shall be a minimum 24" wide. Valley metal shall be set over a minimum 36" wide ASTM D 1970 compliant sweat sheet applied parallel to the valley. The 13ga.,copper, 24" wide "W" valley metal installed with 2" wide by 2-5/8 long with a 1/4" return copper valley Clips (cleats) spaced 12"o.c. and attached to the deck with 12ga., 1-1/2" annular ring shank copper roofing nails. The valley metal shall have a minimum 6" overlap between sections. Valley details shall be in accordance with the manufactures current published literature.
- Eave:** Install in accordance with the F.B.C. The 13ga. copper drip metal with a 2" vertical face and 3-1/2" flange, fastened 4"o.c with 12ga, 1-1/2" annular ring shank copper roofing nails 1" from exterior edge. Joints are lapped 4" and sealed with ASTM C 920 compliant sealant. An 8" wide strip of ASTM D 1970 self-adhered membrane shall be applied to the installed eave metal, overlapping the flange by 3" and overlapping the roof underlayment by 5".
- Rake:** Install in accordance with the F.B.C. The 13ga. copper drip metal with a 2" vertical face and 3-1/2" flange, fastened 4"o.c with 12ga, 1-1/2" annular ring shank copper roofing nails 1" from exterior edge. Joints are lapped 4" and sealed with ASTM C 920 compliant sealant. An 8" wide strip of ASTM D 1970 self-adhered membrane shall be applied to the installed eave metal, overlapping the flange by 3" and overlapping the roof underlayment by 5".
- Ridges:** Ridges shall be covered with slate having a width that is approximately the same as the field slate exposure. The exposure of the ridge slate shall be approximately the same as the width of the field slates. In all cases the ridge slate cover the last course of the field slate by a minimum of 3". Ridge slate shall be installed in a saddle or combing method and shall be attached with an alternating overlap. All ridge slate shall be set in an 8" bed of ASTM D 4586 mastic along with following attachment requirements.



Attachment:

Slate shall be installed with a minimum two (2) 12ga x 1-1/2” copper annular ring shank roofing nails per slate. Fasteners shall be compliant with FBC 1517.5.1, heads not less than 3/8 inch (9.5 mm) in diameter; and lengths sufficient to penetrate through the thickness of plywood panel or wood plank decking not less than 3/16 inch (4.8 mm), or to penetrate into a 1 inch (25 mm) or greater thickness of lumber not less than 1 inch. Fasteners shall be placed in holes that are punched from 1/4 to 1/3 of the length of the slate down from the upper end, and 1” to 1-1/2” from each edge.

Maximum exposure shall be determined by deducting 3” from the length of the slate and dividing that distance by two.

The starter course shall be attached to a cant strip of suitable thickness to enable the second course to rest in proper alignment.

Minimum offset is 3”.

DATA FOR ATTACHMENT CALCULATIONS:

Calculations shall be in compliance with RAS 127 as a moment based system (RAS 127, section 3)

Table 1: Average Weight (W) and Dimensions (D)			
Profile	Weight-W (lbf.)	Length – l (feet)	Width – w (feet)
Slate	7.3	1.96	0.98

Table 2: Aerodynamic Multipliers – λ (ft³)		
Tile Profile	λ(ft³) Batten	λ(ft³) Direct Deck
Slate	N/A	0.59

Table 3: Restoring Moments due to Gravity – Mg (ft. – lbf.)					
Tile Profile	3.5/12	4:12	5/12	6/12	7/12 or greater
Slate	Direct Deck	Direct Deck	Direct Deck	Direct Deck	Direct Deck
	7.01	6.88	6.72	6.54	6.34

Table 4: Attachment Resistance Expressed as a Moment – M _f (ft. – lbf.)	
Profile	Minimum Attachment Resistance
Slate	46



- Deck Type 2:** Wood, Non-insulated
- Deck Description:** New Construction: $1\frac{9}{32}$ " or greater plywood or wood plank
- Slope Range:** $3\frac{1}{2}$:12" or greater
- Underlayment:** Install in accordance with the F.B.C. requirements. Minimum underlayment shall be a Double layer application of ASTM D 226 type I felt installed with a minimum 19" side lap and 6" end - laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge $1\frac{1}{4}$ " annular ring-shank nails, spaced 6"o.c. at all laps and two additional rows 12"o.c. in the field of the roll. Or, any Miami-Dade County Product Control Approved underlayment having a current NOA.
- Valleys:** Install in accordance with the F.B.C. Valley metals shall be a minimum 24" wide. Valley metal shall be set over a minimum 36" wide ASTM D 1970 compliant sweat sheet applied parallel to the valley. The 13ga.,copper, 24" wide "W" valley metal installed with 2" wide by $2\frac{5}{8}$ long with a $\frac{1}{4}$ " return copper valley Clips (cleats) spaced 12"o.c. and attached to the deck with 12ga., $1\frac{1}{2}$ " annular ring shank copper roofing nails. The valley metal shall have a minimum 6" overlap between sections. Valley details shall be in accordance with the manufactures current published literature.
- Eave:** Install in accordance with the F.B.C. The 13ga. copper drip metal with a 2" vertical face and $3\frac{1}{2}$ " flange, fastened 4"o.c with 12ga, $1\frac{1}{2}$ annular ring shank copper roofing nails 1" from exterior edge. Joints are lapped 4" and sealed with ASTM C 920 compliant sealant. An 8" wide strip of ASTM D 1970 self-adhered membrane shall be applied to the installed eave metal, overlapping the flange by 3" and overlapping the roof underlayment by 5".
- Rake:** Install in accordance with the F.B.C. The 13ga. copper drip metal with a 2" vertical face and $3\frac{1}{2}$ " flange, fastened 4"o.c with 12ga, $1\frac{1}{2}$ annular ring shank copper roofing nails 1" from exterior edge. Joints are lapped 4" and sealed with ASTM C 920 compliant sealant. An 8" wide strip of ASTM D 1970 self-adhered membrane shall be applied to the installed eave metal, overlapping the flange by 3" and overlapping the roof underlayment by 5".
- Ridges:** Ridges shall be covered with slate having a width that is approximately the same as the field slate exposure. The exposure of the ridge slate shall be approximately the same as the width of the field slates. In all cases the ridge slate cover the last course of the field slate by a minimum of 3". Ridge slate shall be installed in a saddle or combing method and shall be attached with an alternating overlap. All ridge slate shall be set in an 8" bed of ASTM D 4586 mastic along with following attachment requirements.



Attachment:

Slate shall be installed with a minimum two (2) 12ga x 1-3/4” stainless steel, annular ring shank roofing nails per slate. Fasteners shall be compliant with FBC 1517.5.1, heads not less than 3/8 inch (9.5 mm) in diameter; and lengths sufficient to penetrate through the thickness of plywood panel or wood plank decking not less than 3/16 inch (4.8 mm), or to penetrate into a 1 inch (25 mm) or greater thickness of lumber not less than 1 inch. Fasteners shall be placed in holes that are punched from 1/4 to 1/3 of the length of the slate down from the upper end, and 1” to 1-1/2” from each edge.

Maximum exposure shall be determined by deducting 3” from the length of the slate and dividing that distance by two.

The starter course shall be attached to a cant strip of suitable thickness to enable the second course to rest in proper alignment.

Minimum offset is 3”.

DATA FOR ATTACHMENT CALCULATIONS:

Calculations shall be in compliance with RAS 127 as a moment based system (RAS 127, section 3)

Table 1: Average Weight (W) and Dimensions (D)			
Profile	Weight-W (lbf.)	Length – l (feet)	Width – w (feet)
Slate	7.7	1.96	0.98

Table 2: Aerodynamic Multipliers – λ (ft ³)		
Tile Profile	λ(ft ³) Batten	λ(ft ³) Direct Deck
Slate	N/A	0.6

Table 3: Restoring Moments due to Gravity – Mg (ft. – lbf.)					
Tile Profile	3.5/12	4:12	5/12	6/12	7/12 or greater
Slate	Direct Deck	Direct Deck	Direct Deck	Direct Deck	Direct Deck
	7.39	7.23	7.04	6.83	6.60

Table 4: Attachment Resistance Expressed as a Moment – M _f (ft. – lbf.)	
Profile	Minimum Attachment Resistance
Slate	95 ¹
1. Place 2 dabs of Chemlink M-1 under each headlap at 2” from each side and 2” up from leading edge of slate.	



LIMITATIONS

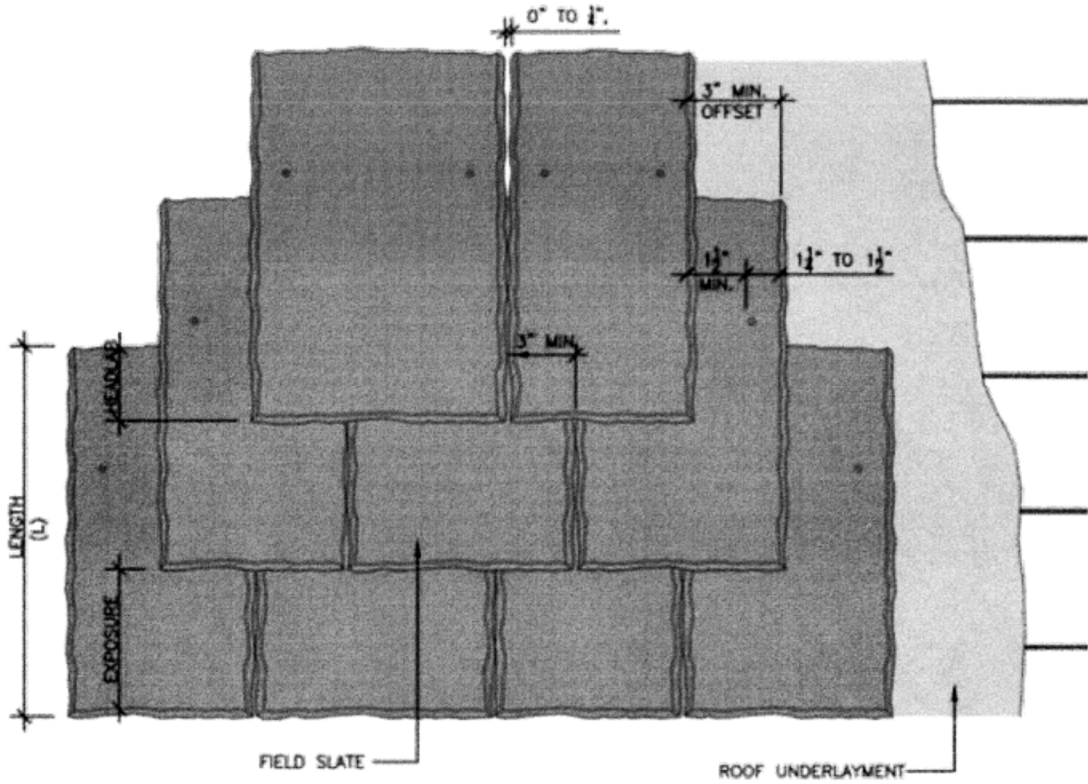
1. This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
2. Fire classification is not part of this acceptance.
3. All Slates shall bear the imprint or identifiable marking of the manufacturer, name or logo, or following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below. If products are packaged in bundles, labeling each bundle wrapper is acceptable.



4. The applicant shall retain the services of a Miami-Dade County certified testing laboratory to maintain quality control in compliance with the Florida Building Code.
5. Application for building permit shall be accompanied by copies of the following:
 - a. This Notice of Acceptance.
 - b. Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.
6. Calculations in accordance with RAS 127 shall be performed as a moment based system.
7. 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.

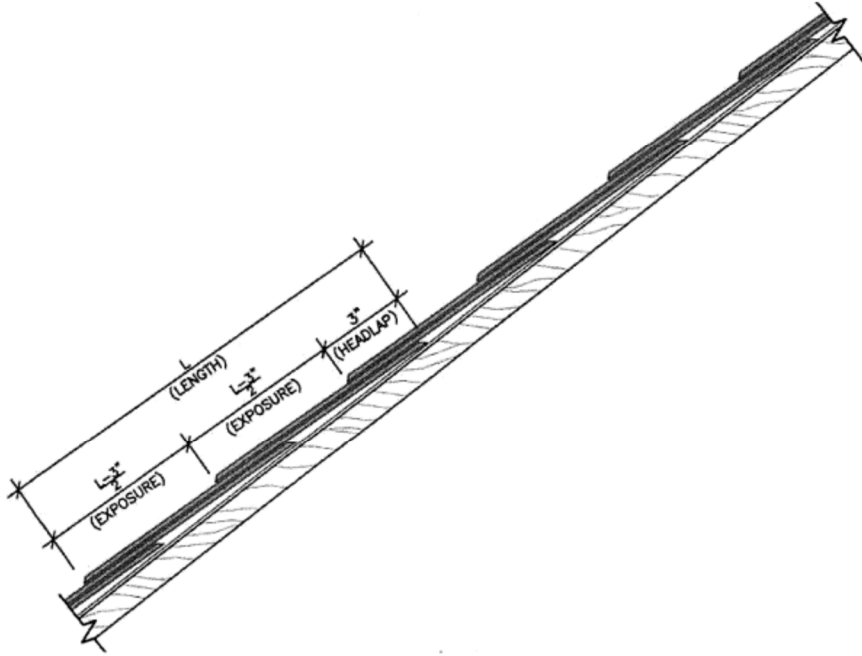


DETAIL A



TYPICAL ASSEMBLY LAYOUT

DETAIL B



TYPICAL EXPOSURE

END OF THIS ACCEPTANCE