



City of Belle Isle Job Site Permit Card **ROOF** 2021-4-056

Class: Residential

Site Address: 3019 Cullen Lake Shore Dr- Belle Isle, FL 32812

Parcel Number: 17-23-30-4379-01-560. Municipality Belle Isle

INSPECTIONS CANNOT BE SCHEDULED IF A NOC IS PENDING FOR THIS PROJECT

Description of Work: ROOF for Pavilion Style Structure behind house.

Number of Stories: 1

ASPHALT SHINGLES with underlayment Square Footage: 1500.

Issued: PRIDE USA INC- EIDEN, WILLIAM J

License # CCC1325723

Contact# 407 414-6867

Payment/ Issued Date & Method: 4 / 16 / 2021

Picked up by _____ Sent by mail to the mailing address Emailed

Visa Master Card Amex Discover Check / Money Order#

9 1 0 2 5 _____

Inspection requests & inquiries regarding results are to be emailed to: BI scheduling@UniversalEngineering.com

| ROOF | INSPECTOR | DATE | COMMENTS |
|--|-----------|------|--|
| NEW ROOFS ONLY Code 700 Deck Nailing, Dry-In, Flashing | | | This inspection only applies for a NEW roof only! |
| Both new & re-roof Code 710 In - Progress | | | Underlayment & Dry-in COMPLETE with UP TO 25% shingle coverage. |
| Both new & re-roof Code 720 Final | | | Schedule when roof is COMPLETE. |

PLEASE NOTE: In order to schedule any inspections, the PERMIT / plans-specs. must be issued and POSTED on the JOB SITE! THIS WILL AVOID ANY FAILED INSPECTIONS & RE-INSPECTION FEES. A permit expires in 6 months if approved inspections are not recorded /scheduled within that time frame. You are responsible for scheduling and keeping track all of your inspections - ☆ Inspection requests are to be emailed to BI scheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 3:00 p.m. Please include the following requirements in your request:

- **Project Address**
- **Corresponding Permit Number**
- **Type of Inspection** (Please reference your permit card for inspection codes)
- **Date of Inspection** (If no date is specified, the inspection will be scheduled for the next business day)
- **Contact Name**
- **Contact Phone Number**
- **Gate / Entry code** (If applicable)
- **AM, PM, or Any Time** (We do our best to accommodate time requests but cannot guarantee an exact arrival)

Universal Engineering Sciences - 3532 Maggie Blvd., Orlando, FL 32811407-581-8161 * Fax 407-581-0313 www.universalengineering.com

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."



City of Belle Isle
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED
 APR 08 2021

APPLICATION FOR ROOFING PERMIT

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: 4-8-2021 **ROOF PERMIT NUMBER** 2021-04-056
 PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:
 Project Address 3019 Cullen Lake Shore Drive, Belle Isle, FL 32809 32812
 Property Owner William Cox Phone (407) 855-3857
 Property Owner's Mailing Address 3019 Cullen Lake Shore Drive City Belle Isle
 State FL Zip Code 32812-1040 **Parcel Id Number:** 17-23-30-4379-01-560

REQUIRED! To obtain this information, please visit <http://www.ocpafi.org/Searches/ParcelSearch.aspx>

Class of Building: Old New **Type of Building:** Residential Commercial Other
Type of Work: New Roof ReRoof **PAVILLION STYLE STRUCTURE** *behind house*

REQUIRED! Florida Product Approval Form – NOTE: installation instructions must be posted on-site before your first inspection!!

Please indicate the nature of work by completing the information below:

Roof Square Footage: 15 **Number of Stories:** 1 **Job Valuation:** \$ 7640 *> 15*
Type: Asphalt Shingles Metal Modified Bitumen Other: _____

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances. By signing below, I recognize Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste, and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial businesses may contact Republic Services at 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Rates are fixed by contract and are available at City Hall or from Republic Services. The City enforces the contract through its code enforcement office. Failure to comply will result in a stop work order.

LICENSE HOLDER SIGNATURE [Signature] **LICENSE #** CCC1325723
LICENSE HOLDER NAME William J. Eiden **COMPANY NAME** Pride USA Inc
Street Address 17047 Royal Palm Drive
City Groveland **State** FL **Zip Code** 34736 **Phone Number** 407-414-6867
Email Address pride-roofing@outlook.com

Building Official: OTZ **Date** 4-12-21
 Verified Contractor's Licenses & Insurance are on file [Signature] **Date** 4-12-2021

Zoning Fee \$ 30.-
Building Fee \$ 60.-
Review Fee \$ 0
1% BCAIB Fee \$ 2 min
1.5% DCA Fee \$ 2 min
Total Permit Fee \$ 94.-

need NOC & all credentials Read

NOTE: The Building Permit Number is required if the Roof Installation is associated with any construction or alteration where a Building Permit has been issued.

*1STIK
5x7*

*25
35
60*

*Next 9/025
PAID
4-16-2021*

Permit Number: 2021-04-056
 Folio/Parcel Identification Number: 17-23-30-4379-01-560
 Prepared by: _____

Return to: mckenzie5grsinc@gmail.com



NOTICE OF COMMENCEMENT

State of Florida, County of Orange

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. **Description of property** (legal description of the property, and street address if available)
Lake Conway Estates Section 3 1/4 Lot 156 3019 Cullen Lake Shore Drive Belle Isle, FL 32812
2. **General description of improvement**
Re-root Pavilion-style building behind home
3. **Owner information or Lessee information if the Lessee contracted for the improvement**
 Name William COX or Bonnie COX
 Address 3019 Cullen Lake Shore Drive Belle Isle, FL 32812
 Interest in Property owner
Name and address of fee simple titleholder (if different from Owner listed above)
 Name N/A
 Address _____
4. **Contractor**
 Name William J. Eiden Pride USA Telephone Number 407-414-6867
 Address 17097 Royal Palm Drive Groveland, FL 34736
5. **Surety** (if applicable, a copy of the payment bond is attached)
 Name N/A Telephone Number _____
 Address _____ Amount of Bond \$ _____
6. **Lender**
 Name N/A Telephone Number _____
 Address _____
7. **Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
 Name N/A Telephone Number _____
 Address _____
8. **In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
 Name N/A Telephone Number _____
 Address _____
9. **Expiration date of notice of commencement** (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified)

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Under penalty of perjury, I declare that I have read the foregoing notice of commencement and that the facts stated in it are true to the best of my knowledge and belief.

Bonnie Cox Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager
Owner Signatory's Title/Office

The foregoing instrument was acknowledged before me this 7th day of 4/21 by Bonnie Cox
 as owner for _____ name of person

Type of authority, e.g., officer, trustee, attorney in fact _____ Name of party on behalf of whom instrument was executed
Terri Bell
 Signature of Notary Public - State of Florida Print, type, or stamp commissioned name of Notary Public

Personally Known OR Produced ID _____
 Type of ID Produced _____





CITY OF BELLE ISLE, FLORIDA
Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

POWER OF ATTORNEY

Date: 4-8-21

Permit #: _____

I hereby name and appoint Neil McKenzie of
(print name)

McKenzie's General Repair Service
(company name)

to be my lawful attorney-in-fact to act for

me and apply to the City of Belle Isle Building Department for a Re-roof permit
(type of permit)

for work to be performed at the following location:

3019 Cullen Lake Shore Drive

(street address)

, Belle Isle, FL 32809 32812 and

to sign my name and do all things necessary to this appointment.

Certified Contractor's Printed Name: William J. Eiden

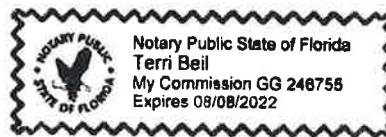
License Number: CCC1325723

Certified Contractor's Signature: _____

.....
The foregoing instrument was acknowledged before me this 8th days of April of 2021
by William J. Eiden who is personally known to me or who produced
_____ as identification and who did not take an oath.

State of Florida
County of Orange

Terri Beil
Notary Public, Orange County, Florida



(seal)



City of Belle Isle
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Product Approval Form

DATE: 4-8-2021 PERMIT # _____
 PROJECT ADDRESS 3019 Cullen Lake Shore Drive, Belle Isle, FL 32809 32812

As required by Florida Statue 553.842 and Florida Administrative Code 9B-72m, please provide the information and approval numbers of the building components listed below if they will be utilized on the building or structure. FL Approved products are listed online at www.floridabuilding.org or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

- NOTE:** The Installation instructions must be posted on-site before your first inspection!!

| Product Type | Manufacturer | Model/Series | FL Product Approval # | Product Type | Manufacturer | Model/Series | FL Product Approval # |
|------------------------------|--------------|--------------|-----------------------|-------------------------|---------------|--------------|-----------------------|
| EXTERIOR DOORS | | | | WALL PANELS | | | |
| Swinging | | | | Sliding | | | |
| Sliding | | | | Soffits | | | |
| Sectional/Rollup | | | | Storefront | | | |
| Other | | | | Glass Block | | | |
| | | | | Other | | | |
| WINDOWS | | | | ROOFING PRODUCTS | | | |
| Single/Dbl Hung | | | | Asphalt Shingles | Tamko | Heritage | 35321.1 |
| Horizontal Slider | | | | Non Struct Metal | | | |
| Casement | | | | Roofing Tiles | | | |
| Fixed | | | | Single Ply Roof | | | |
| Mullion | | | | Underlayment | Owens Corning | Rhinoroc | 15216.1 |
| Skylights | | | | Other | | | |
| Other | | | | | | | |
| STRUCTURAL COMPONENTS | | | | OTHER | | | |
| Wood Connectors | | | | | | | |
| Wood Anchors | | | | | | | |
| Truss Plates | | | | | | | |
| Insulation Forms | | | | | | | |
| Lintels | | | | | | | |
| Other | | | | | | | |

It is the applicant's responsibility to verify that specific products have been installed in accordance with their limitations and with the minimum required design pressures for the structure. Specific compliance will be verified during field inspections.

Applicant Signature Nial McKenzie

Date 4-8-21



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Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**



| | |
|---|--|
| FL # | FL35321 |
| Application Type | New |
| Code Version | 2020 |
| Application Status | Approved |
| | *Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary. |
| Comments | |
| Archived | <input type="checkbox"/> |
| Product Manufacturer | TAMKO Building Products LLC |
| Address/Phone/Email | PO Box 97 Galena, KS 66739 (417) 624-6644 Ext 2305 kerri_eden@tamko.com |
| Authorized Signature | Kerri Eden kerri_eden@tamko.com |
| Technical Representative | Kerri Eden |
| Address/Phone/Email | PO Box 1404 Joplin, MO 64802 (417) 624-6644 Ext 2305 kerri_eden@tamko.com |
| Quality Assurance Representative | |
| Address/Phone/Email | |
| Category | Roofing |
| Subcategory | Asphalt Shingles |
| Compliance Method | Evaluation Report from a Product Evaluation Entity |
| Evaluation Entity | UL LLC |
| Quality Assurance Entity | UL LLC |
| Quality Assurance Contract Expiration Date | 11/18/2021 |
| Validated By | Robert Nieminen, PE, NEMO ETC, LLC <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received |
| Certificate of Independence | FL35321_R0_COI_UL_Standards of Business Conduct - Independence.pdf |
| Referenced Standard and Year (of Standard) | |
| Equivalence of Product Standards Certified By | |
| Sections from the Code | 104.11 1504.6 1507.2.5 1507.2.7.1 R905.2.4 R905.2.6.1 |

Product Approval Method Method 2 Option A

Date Submitted 11/20/2020

Date Validated 11/23/2020

Date Pending FBC Approval

Date Approved 11/24/2020

Summary of Products

| FL # | Model, Number or Name | Description |
|---|------------------------|---|
| 35321.1 | TAMKO Asphalt Shingles | Non-ASTM D3462 asphalt roof shingles and ridge cap shingles |
| Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Refer to UL ER Section 8 for Limits of Use. | | Installation Instructions FL35321_R0_II_2020_11_18_TAMKO_UL_ER2919-02.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports FL35321_R0_AE_2020_11_18_TAMKO_UL_ER2919-02.pdf |

[Back](#) [Next](#)

Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824](#)

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Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275 (1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:



Credit Card
Safe



UL Evaluation Report

UL ER2919-02

Issued: April 25, 2014

Revised: November 18, 2020

Visit UL, LLC's [Product IQ™ database](#) for the status of this Report.

UL Category Code: ULEZ

CSI MasterFormat®

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Sub-level 2: 07 30 00 – Steep Slope Roofing
Sub-level 3: 07 31 00 – Shingles and Shakes
Sub-level 4: 07 31 13 – Asphalt Shingle

COMPANY:

TAMKO BUILDING PRODUCTS LLC
198 FOUR STATES DRIVE
GALENA, KANSAS 66739
(417) 624-6644
www.tamko.com

1. SUBJECT: Asphalt Shingles

ELITE GLASS-SEAL

**HERITAGE, HERITAGE IR, HERITAGE PREMIUM, HERITAGE WOODGATE, HERITAGE VINTAGE,
AND HERITAGE PROLINE TITAN XT**

**HERITAGE VINTAGE 12 X 12 HIP AND RIDGE, 12-¼ X 12 HIP AND RIDGE AND 12-¼ X 12
HERITAGE HIP AND RIDGE IR**

HERITAGE VINTAGE STARTER

2. SCOPE OF EVALUATION

- 2018, 2015, 2012, and 2009 *International Building Code*® (IBC)
- 2018, 2015, 2012, and 2009 *International Residential Code*® (IRC)
- 2020 Florida Building Code – Building
- 2020 Florida Building Code – Residential
- ICC ES Acceptance Criteria for Quality Documentation (AC10)
- ICC ES Acceptance Criteria for Alternative Asphalt Roofing Shingles (AC438)



The products were evaluated for the following properties:

- Exterior Fire Exposure (UL790, ASTM E108)
- Wind Resistance (ASTM D3161; ASTM D7158)
- Physical Properties (ASTM D3462, ICC ES AC438)
- Impact Resistance (UL 2218)

3. REFERENCED DOCUMENTS

- UL790 (ASTM E108), Standard Test Methods for Fire Tests of Roof Coverings Eighth Edition, dated October 19, 2018
- UL 2218, Standard Test Methods for Impact Resistance of Prepared Roof Covering Materials
- ASTM D3161, Standard Test Method for Wind-Resistance of Asphalt Shingles (Fan-Induced Method)
- ASTM D7158, Standard Test Method for Wind Resistance of Asphalt Shingles (Uplift Force/Uplift Resistance Method)
- UL Subject 2375 Issue No. 2, Outline of Investigation for Hip and Ridge Shingles (UL Fire and Wind Tests)
- ICC ES Acceptance Criteria for Alternative Asphalt Roofing Shingles (AC438)
- ICC ES Acceptance Criteria for Quality Documentation (AC10)

4. USES

TAMKO asphalt shingles described in this report are alternatives to asphalt shingles complying with Section 1507.2.4 of the 2018 IBC, Section 1507.2.5 of the 2015, 2012, and 2009 IBC, Section 1507.2.5 of the 2020 Florida Building Code - Building, or Section R905.2.4 of the IRC and 2020 Florida Building Code - Residential, and are Class A roof coverings for new and existing roofs.

5. PRODUCT DESCRIPTION

TAMKO asphalt shingles are roof covering materials complying with the following properties when installed as described in this report. The products are three-tab shingles, laminated shingles and hip and ridge shingles.

Fire Classification: TAMKO asphalt shingles covered under this Report have been tested for fire classification Class A in accordance with UL 790 (ASTM E108). Shingles tested in accordance with UL790 (ASTM E108) qualify for use under Section 1505.1 of the 2020 Florida Building Code - Building, IBC, -Section R902.1 of the IRC and 2020 Florida Building Code - Residential.

Wind Resistance: TAMKO asphalt shingles covered under this Report have been tested for wind resistance in accordance with ASTM D3161 or ASTM D7158.

Shingles tested in accordance with ASTM D3161 are classified as Class F and qualify for use under the exception to Section 1504.1.1 of the 2018 and 2015 IBC and Section 1507.2.7.1 of the 2012 and 2009 IBC and 2020 Florida Building Code - Building, the exception to Section R905.2.4.1 of the IRC, and Section R905.2.4 of 2020 Florida Building Code - Residential.

Shingles tested in accordance with ASTM D7158 are classified as Class H and qualify for use in locations as shown in Table 1507.2.7.1 of the 2012, 2009 IBC and 2020 Florida Building Code - Building, Table R905.2.4.1 of the 2012 and 2009 IRC, or Table R905.2.6.1 of the 2020 Florida Building Code - Residential, where the maximum basic wind speed is 150 mph (67 m/s) or less with exposure category of B or C (ASCE 7) and a maximum building height of 60 feet (18.3 m). Installation must be in accordance with Section 1507.2.6 of the 2018 IBC and Section 1507.2.7 of the 2015, 2012, and 2009 IBC, or Section R905.2.6 of the 2018, 2015, 2012, and 2009 IRC, as applicable.

Physical Properties: TAMKO asphalt shingles covered under this Report have been tested for physical properties in accordance with ICC ES AC438. Shingles tested in accordance with ICC ES AC438 qualify as an alternative roof covering for use under Section 1507.2.4 of the 2018 IBC, Section 1507.2.5 of the 2015, 2012, and 2009 IBC, Section 1507.2.5 of the 2020 Florida Building Code - Building, or Section R905.2.4 of the IRC and 2020 Florida Building Code - Residential. When installed on new construction in accordance with this report and the TAMKO Building Products LLC installation instructions, the shingles are a Class A roof covering. When the shingles are installed over existing roof coverings, the Class A fire classification is maintained.

5.1 Three-Tab Shingles – Elite Glass-Seal:

Elite Glass-Seal shingles are three-tab shingles manufactured with a single fiberglass mat, coated on both sides with asphalt, and surfaced on the weather-exposed side with mineral granules. The shingles are self-sealing and have beads of thermal-tab sealing adhesive above the shingle butt on the weather side. See [Table 2](#) for product dimensions and manufacturing locations.

5.2 Laminated Shingles – Heritage, Heritage IR, Heritage Premium, Heritage Woodgate, Heritage Vintage, and Heritage Proline Titan XT:

Heritage, Heritage IR, Heritage Premium, Heritage Woodgate, Heritage Vintage, and Heritage Proline Titan XT shingles are laminated shingles manufactured with a double layer of fiberglass mats coated with asphalt on all sides, and surfaced on the weather-exposed side with mineral granules. See [Table 3](#), [Table 4](#), [Table 5](#), [Table 6](#), [Table 7](#), [Table 10](#) and [Table 13](#) for product dimensions and manufacturing locations.

5.3 Hip & Ridge Shingles – 12-¼ X 12 Hip and Ridge, Heritage Vintage 12 X 12 Hip and Ridge, 12-¼ X 12 Heritage Hip and Ridge IR:

12-¼ X 12 Hip and Ridge, Heritage Vintage 12 X 12 Hip and Ridge, and 12-¼ x 12 Heritage Hip and Ridge IR shingles are prefabricated hip and ridge shingles. Heritage Vintage 12 X 12 Hip and Ridge shingles are perforated so they can be torn into three 12-inch by 12-inch shingles. The 12-¼ X 12 Hip and Ridge and 12-¼ X 12 Heritage Hip and Ridge IR shingles are perforated so they can be torn into three 12-¼ inch by 12-inch shingles. As an alternative, Elite Glass-Seal shingles are cut into three 12-¼ inch by 12-inch hip and ridge shingles. See [Table 8](#), [Table 9](#), and [Table 11](#) for product dimensions and manufacturing locations.

6. INSTALLATION

TAMKO asphalt shingles must be installed in accordance with the applicable code, this report and the manufacturer's published installation instructions. The shingles must be installed in accordance with Section 1507.2 of the IBC and 2020 Florida Building Code - Building, or Section R905.2 of the IRC and 2020 Florida Building Code - Residential, as applicable, except as noted in this report.

The manufacturer's published installation instructions must be available at all times on the jobsite during installation.

Minimum roof slopes must be 2:12 (16.67% slope) for the three-tab shingles described under 5.1 of this Report and for the laminated shingles described under 5.2 of this Report.

6.1 Underlayment and Ice Barriers:

For roof slopes 4:12 and greater, the roof deck must be covered with a minimum of one layer of underlayment as described in Sections 7.2 and 7.3 of this Report. Underlayment application must be in accordance with Table 1507.1.1 of the 2018 IBC, 2020 Florida Building Code - Building, and Section 1507.2.8 of the 2015, 2012, and 2009 IBC or Section R905.2.7 of the IRC and Section 905.2.3 of the 2020 Florida Building Code - Residential, as applicable.

For roof slopes 2:12 and up to but less than 4:12, two layers of the underlayment described in Section 7.2 or one layer of the self-adhering polymer modified bitumen sheet in described in Section 7.3 of this Report are required. Underlayment application must be in accordance with Section 1507.1.1 of the 2018 IBC, 2020 Florida Building Code - Building, and Section 1507.2.8 of the 2015, 2012, and 2009 IBC, Section R905.1.1 of the IRC, and 2020 Florida Building Code - Residential, as applicable.

In areas where there has been a history of ice forming along the eaves, causing a backup of water, an ice barrier must be provided in accordance with Section 1507.1.2 of the 2018 IBC and Section 1507.2.8.2 of the 2020 Florida Building Code - Building, 2015, 2012, and 2009 IBC or Section R905.2.7 of the 2018 IRC, 2020 Florida Building Code - Residential, and Section R905.16.4.1 2015 IRC, and Section R905.2.7.1 of the 2012, and 2009 IRC, as applicable.

6.2 Starter Shingle:

A starter course, as described in Section 7.4 of this Report, must be attached to the eave edge using fasteners described in Section 7.5 of this Report, located 1-½ to 3 inches (38.1 to 76.2 mm) from the eave edge and spaced 1 inch (25.4 mm) and 12 inches (305 mm) from each end, for a total of four fasteners per shingle. Starter strips must overhang the eave and rake edges ¼ to ¾ inch (6.4 to 19.1 mm) if no drip edge flashing is present. If drip edge flashing is present, install shingles even with the drip edge or overhang the drip edge up to ¾ inch.

6.3 Asphalt Shingles:

The first course of field shingles must be installed over the starter course described in Section 7.4 of this Report.

Shingles must be installed with vertical joints offset a minimum of 4 inches (102 mm) from adjacent courses.

6.3.1 Three-Tab Shingles – Elite Glass-Seal:

For roof slopes 2:12 up to but less than 21:12 (16.67% to 175% slope), each shingle must be fastened to the roof deck using a minimum of four fasteners, spaced as shown in Tables 2 and 3.

For roof slopes equal to or greater than 21:12 (175% slope), six fasteners must be used, spaced as shown in Table 2.

Fasteners must be in a nail area between 5-¾ inches (143 mm) and 6-⅞ inches (175 mm) from the butt edge of the shingle.

Maximum exposure to the weather must be 5-¼ inches (130 mm).

In colder climates or wind regions where it is questionable whether the thermal-sealing adhesive will activate to seal the shingles, the shingles can be hand-sealed. A 1-in diameter (25.4 mm) spot of asphalt cement complying with ASTM D4586, Type I, Class I, should be placed under the corner of each tab (two spots per tab).

6.3.2 Laminated Shingles – Heritage, Heritage IR, Heritage Premium, Heritage Woodgate, and Heritage Proline XT:

For roof slopes 2:12 up to but less than 21:12 (16.67% to 175% slope), each shingle must be fastened to the roof deck using a minimum of four fasteners, spaced as shown in Tables 3, 4, 5, 6, 10 and 13.

For roof slopes over 21:12 (175% slope), six fasteners must be used, spaced as shown in Tables 3, 5, 6, 10, and 13.

Maximum exposure to the weather must be 5- $\frac{5}{8}$ inches (143 mm).

In colder climates or wind regions where it is questionable whether the thermal-sealing adhesive will activate to seal the shingles, the shingles can be hand-sealed. Four evenly spaced 1-inch diameter (25.4 mm) spots of cement should be placed under the exposed portion of the shingle, approximately 1 inch (76 mm) above the butt edge.

6.3.3 Laminated Shingles – Heritage Vintage:

For roof slopes 2:12 up to but less than 21:12 (16.67% to 175% slope), each shingle must be fastened to the roof deck using a minimum of five fasteners, spaced as shown in Table 7.

For roof slopes equal to or greater than 21:12 (175% slope), nine fasteners must be used, spaced as shown in Table 7.

Fasteners must be located 6 and 11- $\frac{1}{2}$ inches (152 and 292 mm) above the butt edge of the shingles.

Maximum exposure to the weather must be 5 inches (127 mm).

In colder climates or wind regions where it is questionable whether the thermal-sealing adhesive will activate to seal the shingles, the shingles must be hand-sealed. Four evenly spaced 1-inch diameter (25.4 mm) spots of cement should be placed under the exposed portion of the shingle, approximately 1 inch (127 mm) above the butt edge.

6.4 Valley Construction and Other Flashing:

Valleys must consist of woven, open valley or closed-cut construction and must be flashed in accordance with Section 1507.2.8.2 of the 2018 IBC, and Section 1507.2.9.2 of the 2020 Florida Building Code - Building, 2015, 2012, and 2009 IBC or Section R905.2.8.2 of the IRC and 2020 Florida Building Code - Residential. Other flashings must be in accordance with Sections 1503.2 and 1507.2.8 of 2020 Florida Building Code - Building, 2018 IBC, Section 1507.2.9 of the 2015, 2012, and 2009 IBC, or Section R903.2 and Section R905.2.8 of the IRC and 2020 Florida Building Code - Residential, as applicable.

6.5 Hip and Ridge Application:

Hip and ridge shingles must be placed evenly over hips and ridges, and must be fastened to the roof deck using two fasteners, one located on either side of the shingle, 5- $\frac{1}{2}$ inches (140 mm) or 5- $\frac{5}{8}$ inches (143 mm) from the exposed end, and 1 inch (25.4 mm) in from the edge as shown in Tables 8 and 9. Fasteners must be a minimum $\frac{1}{4}$ inch (6.4 mm) longer than those used in the field of the roof, as specified in Section 7.5 of this report. The 12- $\frac{1}{4}$ X 12 Hip and Ridge and 12- $\frac{1}{4}$ x 12 Heritage Hip and Ridge IR prefabricated hip and ridge shingles must be installed with a maximum exposure of 5- $\frac{1}{8}$ in. (130 mm). Heritage Vintage 12 X 12 Hip and Ridge prefabricated hip and ridge shingles must be installed with a maximum exposure of 5 in. (127 mm). Hip and ridge shingles are installed starting at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing wind.

6.6 Reroofing:

The existing asphalt shingle roof covering must be inspected in accordance with the provisions and limitations of Section 1510 of the IBC, Section 1511 of the 2020 Florida Building Code - Building, Section R908.1 of the IRC, or Section 901.1 of the 2020 EBC-Residential, as applicable. Prior to the reroofing, hip and ridge coverings must be removed.

Except as noted in this section, the shingles must be installed in accordance with Section 6.3 and 6.5 of this Report. Fasteners must be of sufficient length to penetrate $\frac{3}{4}$ inch (19.1 mm) into the sheathing, or through the sheathing where the sheathing is less than $\frac{3}{4}$ inch (19.1 mm) thick. Flashing and edging must comply with Section 6.4 and with Section 1511.6 of the 2018 and 2015 IBC and 2020 Florida Building Code - Building, Section 1510.6 of the 2012, and 2009 IBC and Section R908.6 of the 2018 and 2015 IRC, 2020 Florida Building Code - Residential, and R907.6 of the 2012, and 2009 IRC, as applicable.

7. INSTALLATION MATERIALS

7.1 Sheathing:

The roof deck must be code-complying, minimum $\frac{3}{8}$ -inch thick (9.5 mm), exterior plywood complying with DOC PS-1; rated sheathing complying with DOC PS-2; or solid sheathing using minimum nominally 1 by 6 lumber.

7.2 Underlayment:

Under the IBC or IRC, underlayment must comply with ASTM D226, Type I (minimum), ASTM D4869, Type I (minimum) or ASTM D6757 as specified in Section 1507.1.1 of the 2020 Florida Building Code - Building, Section 1507.2.3 of the IBC or Section R905.1.1 of the IRC, and 2020 Florida Building Code - Residential.

7.3 Self-adhering Polymer Modified Bitumen Sheet:

The self-adhering polymer modified bitumen sheet must comply with ASTM D1970.

7.4 Starter Shingles:

The starter course shingle consists of either TAMKO 10-inch starter, TAMKO Shingle Starter, TAMKO Perforated Starter, or a self-sealing three-tab shingle. If self-sealing three-tab shingles are used, remove the exposed tab portion and install with factory-applied sealant adjacent to the eaves.

Heritage Vintage requires a Heritage Vintage starter shown in [Table 12](#) is to be installed over the starter course at the eave edge.

7.5 Fasteners:

Fasteners must be minimum No. 12 gage [0.105 inch (2.7 mm)], $\frac{3}{8}$ -inch diameter head (9.5 mm), galvanized, stainless steel, aluminum or copper corrosion-resistance nails. Fasteners must be of sufficient length to penetrate into the sheathing $\frac{3}{4}$ -inch (19.1 mm), or through the sheathing, where the sheathing is less than $\frac{3}{4}$ -inch (19.1 mm) thick. Fasteners must be compliant with ASTM F1667.

7.6 Asphalt Cement:

Asphalt cement must comply with ASTM D 4586, Type I, Class I.

8. CONDITIONS OF USE

The TAMKO Asphalt Shingles described in this Report comply with, or are suitable alternatives to, what is specified in those codes listed in Section 2 of this Report, subject to the following conditions:

- 8.1 Materials and methods of installation shall comply with this Report and the manufacturer's published installation instructions. In the event of a conflict between the installation instructions and this Report, this Report governs.
- 8.2 The products are manufactured at the locations listed in [Table 1](#) of this Report under the UL LLC Classification and Follow-Up Service Program, which includes regular audits in accordance with quality elements of ICC-ES Acceptance Criteria for Quality Documentation, AC10.
- 8.3 See UL [Product iQ™ database](#) for Prepared Roof-Covering Materials (TFWZ).

9. SUPPORTING EVIDENCE

- 9.1 Manufacturer's descriptive product literature, including installation instructions.
- 9.2 See UL [Product iQ™ database](#) for the following:
 - 9.2.1 UL test reports and Classification in accordance with UL 790, Class A and UL Subject 2375 for Roof-Covering Materials ([TFWZ](#)).
 - 9.2.2 UL test reports and Classification in accordance with ICC ES Acceptance Criteria for Alternative Asphalt Roofing Shingles, AC438. ([TFWZ](#)).
 - 9.2.3 UL test reports and Classification in accordance with ASTM D7158, Class H for Prepared Roof-Covering Materials ([TGAH](#)).
 - 9.2.4 UL test reports and Classification in accordance with ASTM D3161, Class F Prepared Roof-Covering Materials ([TFWZ](#)).
- 9.3 Quality Documentation in accordance with ICC-ES Acceptance Criteria for Quality Documentation, AC10.

10. IDENTIFICATION

TAMKO asphalt shingles described in this Evaluation Report are identified by a marking on each package bearing the report holder's name (TAMKO Building Products LLC), the plant identification, the product name, the UL Listing/Classification Mark and the evaluation report number UL ER2919-02. The validity of this Evaluation Report is contingent upon this identification appearing on the package.

11. USE OF UL EVALUATION REPORT

- 11.1 The approval of building products, materials or systems is under the responsibility of the applicable authorities having jurisdiction.
- 11.2 UL Evaluation Reports shall not be used in any manner that implies an endorsement of the product, material or system by UL.
- 11.3 The status of this report, as well as a complete directory of UL Evaluation Reports may be found at UL.com via the [Product iQ™ database](#).

Table 1 – Manufacturing Locations

| LISTEE | LOCATION | FACTORY ID |
|-----------------------------|---|------------|
| TAMKO BUILDING PRODUCTS LLC | 7910 S CENTRAL EXPY DALLAS TX 75216 | D |
| TAMKO BUILDING PRODUCTS LLC | 4500 TAMKO DR FREDERICK MD 21704 | F |
| TAMKO BUILDING PRODUCTS LLC | 601 N HIGH ST JOPLIN MO 64801 | J |
| TAMKO BUILDING PRODUCTS LLC | 1598 HWY 183 PHILLIPSBURG KS 67661 | P |
| TAMKO BUILDING PRODUCTS LLC | KAUL INDUSTRIAL PARK 2300 35TH ST TUSCALOOSA AL 35401 | T |

Table 2 – Elite Glass-Seal

| | |
|---------------------------|--|
| Dimensions: | 12- ¹ / ₄ " x 36" |
| Plant Location(s): | Frederick, Joplin |
| Fastening Pattern: | <p>For slopes 2:12 up to but less than 21:12</p> |
| Fastening Pattern: | <p>For slopes equal to or greater than 21:12</p> |

Table 3 – Heritage

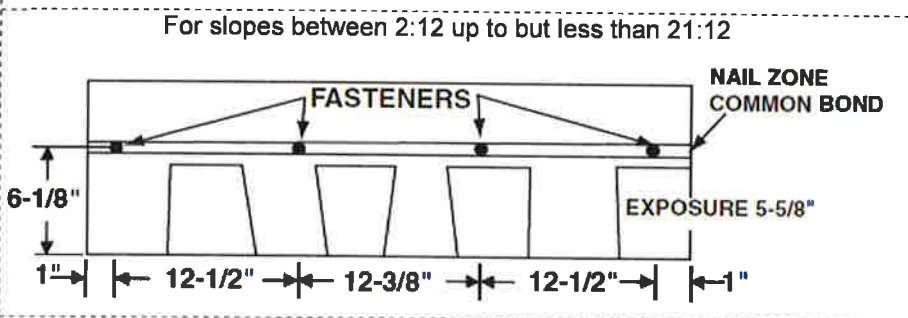
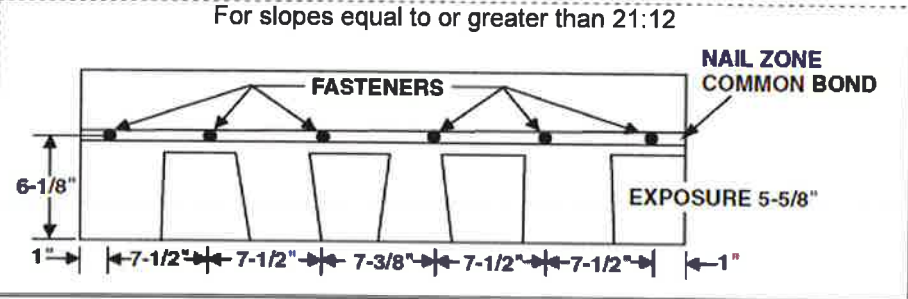
| | |
|----------------------------------|---|
| <p>Dimensions:</p> | <p>13-1/4" x 39-3/8"</p> |
| <p>Plant Location(s):</p> | <p>Dallas, Frederick, Joplin, Phillipsburg</p> |
| <p>Fastening Pattern:</p> | <p>For slopes between 2:12 up to but less than 21:12</p>  |
| <p>Fastening Pattern:</p> | <p>For slopes equal to or greater than 21:12</p>  |

Table 4 – Heritage

| | |
|----------------------------------|--|
| <p>Dimensions:</p> | <p>13-1/4" x 39-3/8"</p> |
| <p>Plant Location(s):</p> | <p>Tuscaloosa</p> |
| <p>Fastening Pattern:</p> | <p>For slopes between 2:12 up to but less than 21:12</p> |
| <p>Fastening Pattern:</p> | <p>For slopes equal to or greater than 21:12</p> |

Table 5 – Heritage Premium

| | |
|---------------------------|---|
| Dimensions: | 13- ¹ / ₄ " x 39- ³ / ₈ " |
| Plant Location(s): | Phillipsburg, Frederick |
| Fastening Pattern: | <p>For slopes between 2:12 up to but less than 21:12</p> |
| Fastening Pattern: | <p>For slopes equal to or greater than 21:12</p> |

Table 6 – Heritage Woodgate

| | |
|---------------------------|---|
| Dimensions: | 13- ¹ / ₄ " x 39- ³ / ₈ " |
| Plant Location(s): | Dallas, Frederick |
| Fastening Pattern: | <p>For slopes of 2:12 up to but less than 21:12</p> |
| Fastening Pattern: | <p>For slopes equal to or greater than 21:12</p> |

Table 7 – Heritage Vintage

| | |
|----------------------------------|---|
| <p>Dimensions:</p> | <p>17-1/2" x 40"</p> |
| <p>Plant Location(s):</p> | <p>Phillipsburg</p> |
| <p>Fastening Pattern:</p> | <p>For slopes between 2:12 up to but less than 21:12</p> |
| <p>Fastening Pattern:</p> | <p>For slopes equal to or greater than 21:12</p> <p>Apply under each tab 1" diameter asphalt adhesive cement.</p> |

Table 8 – Heritage Vintage 12 X 12 Hip and Ridge

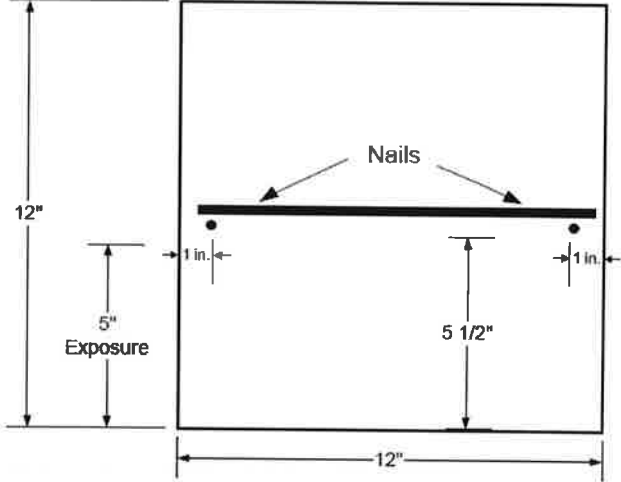
| | |
|---------------------------|---|
| Dimensions: | 12" x 12" |
| Plant Location(s): | Phillipsburg |
| Fastening Pattern: |  <p>The diagram illustrates the fastening pattern for a 12" x 12" hip and ridge. It shows a square with a horizontal line representing the ridge. Two nails are positioned on the ridge, each 1 inch from the nearest corner. The distance from the bottom edge to the ridge line is 5 1/2 inches. The distance from the bottom edge to the top of the ridge line is 5 inches, labeled as "Exposure".</p> |

Table 9 – 12-¼ X 12 Hip and Ridge

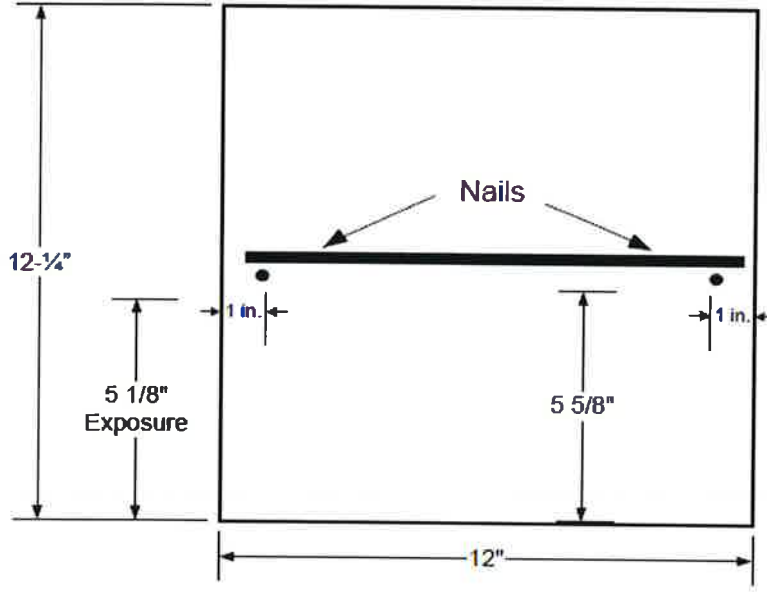
| | |
|---------------------------|--|
| Dimensions: | 12-¼" x 12" |
| Plant Location(s): | Frederick, Joplin |
| Fastening Pattern: |  |

Table 10 – Heritage IR

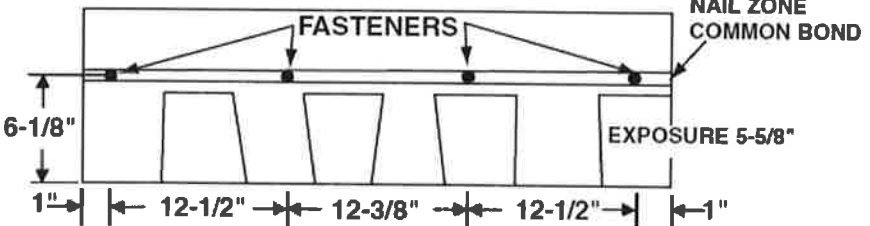
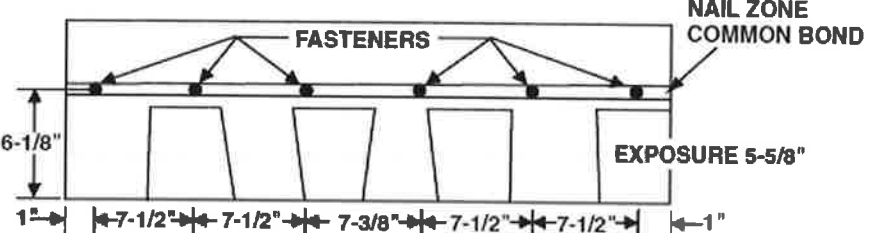
| | |
|----------------------------------|---|
| <p>Dimensions:</p> | <p>13-¹/₄" x 39-³/₈"</p> |
| <p>Plant Location(s):</p> | <p>Joplin, Philipsburg</p> |
| <p>Fastening Pattern:</p> | <p>For slopes between 2:12 up to but less than 21:12</p>  |
| <p>Fastening Pattern:</p> | <p>For slopes equal to or greater than 21:12</p>  |

Table 11 Heritage Hip and Ridge IR

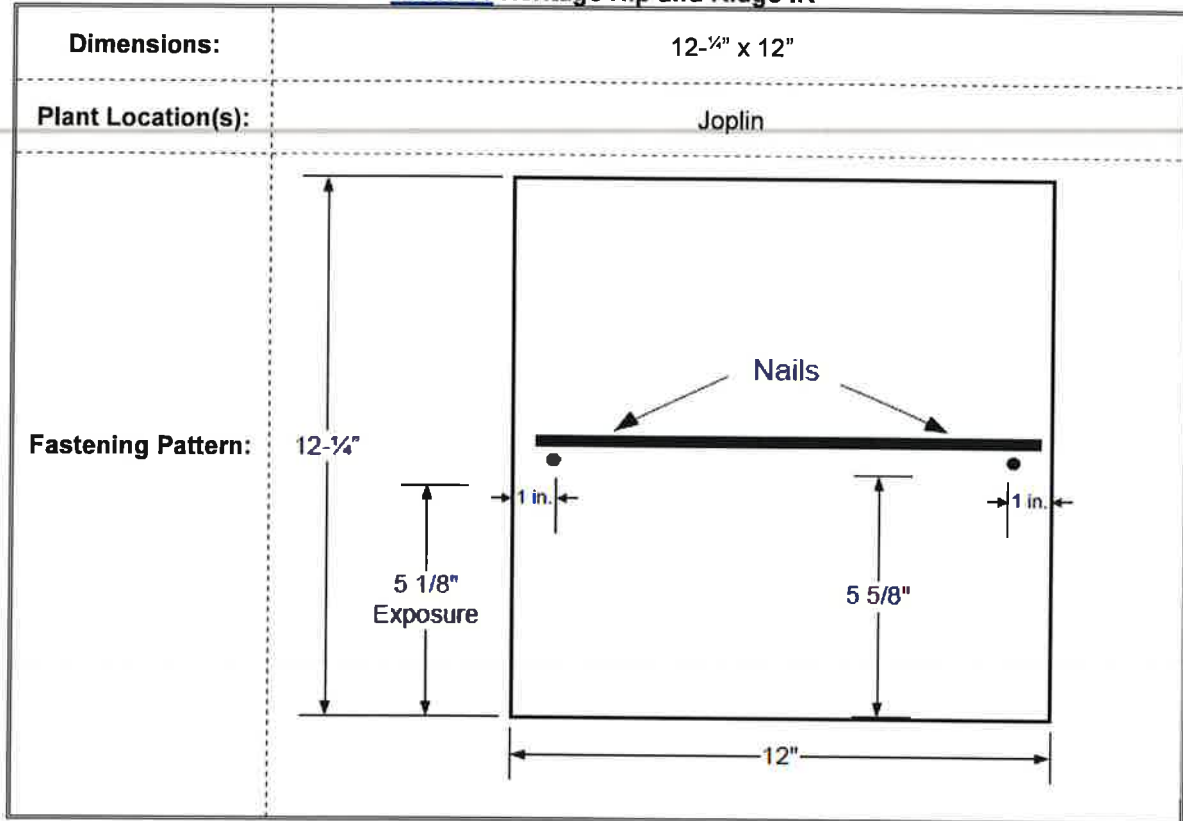


Table 12 Heritage Vintage Starter

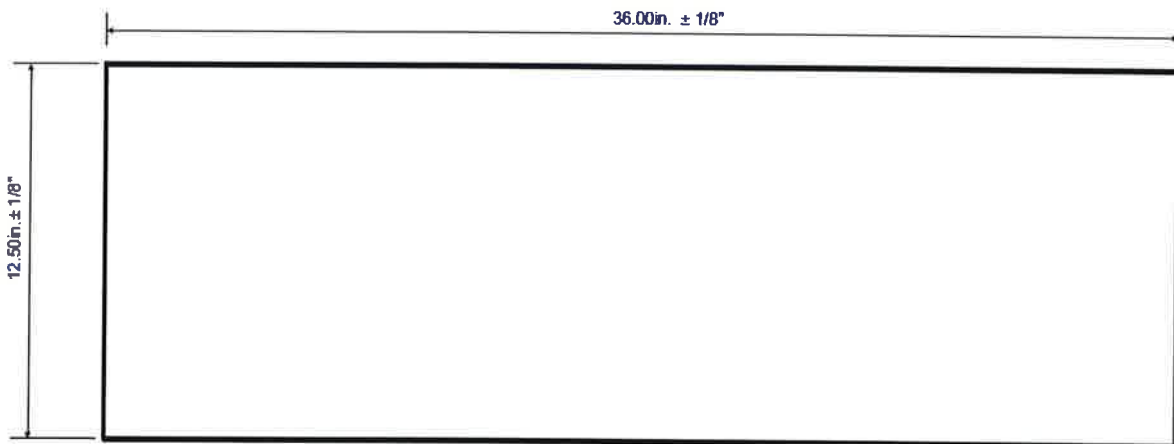


Table 13– Heritage Proline Titan XT

| | |
|----------------------------------|--|
| <p>Dimensions:</p> | <p>13-1/4" x 39-3/8"</p> |
| <p>Plant Location(s):</p> | <p>Philipsburg and Frederick</p> |
| <p>Fastening Pattern:</p> | <p>For slopes 2:12 up to but less than 21:12</p> |
| <p>Fastening Pattern:</p> | <p>For slopes equal to or greater than 21:12</p> |

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| FL # | FL15216-R8 | | | | | | | | | | | | |
|--|--|-----------------|-------------|-----------------------|------|----------------------------|------|-------------------------|------|----------------------------------|------|-------------------------------|------|
| Application Type | Revision | | | | | | | | | | | | |
| Code Version | 2020 | | | | | | | | | | | | |
| Application Status | Approved | | | | | | | | | | | | |
| Comments | | | | | | | | | | | | | |
| Archived | <input type="checkbox"/> | | | | | | | | | | | | |
| Product Manufacturer Address/Phone/Email | Owens Corning Roofing and Asphalt, LLC One Owens Corning Parkway Toledo, OH 43645 (740) 321-6345 Greg.Keeler@owenscorning.com | | | | | | | | | | | | |
| Authorized Signature | Keeler Greg Greg.Keeler@owenscorning.com | | | | | | | | | | | | |
| Technical Representative Address/Phone/Email | Greg Keeler 2790 Columbus Road Granville, OH 43023 (740) 321-6345 greg.keeler@owenscorning.com | | | | | | | | | | | | |
| Quality Assurance Representative Address/Phone/Email | | | | | | | | | | | | | |
| Category | Roofing | | | | | | | | | | | | |
| Subcategory | Underlayments | | | | | | | | | | | | |
| Compliance Method | Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received | | | | | | | | | | | | |
| Florida Engineer or Architect Name who developed the Evaluation Report | Robert Nieminen | | | | | | | | | | | | |
| Florida License | PE-59166 | | | | | | | | | | | | |
| Quality Assurance Entity | Intertek Testing Services NA, Inc. - QA Entity | | | | | | | | | | | | |
| Quality Assurance Contract Expiration Date | 12/31/2023 | | | | | | | | | | | | |
| Validated By | John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received | | | | | | | | | | | | |
| Certificate of Independence | FL15216_R8_COI_2020_01_COI_NIEMINEN.pdf | | | | | | | | | | | | |
| Referenced Standard and Year (of Standard) | <table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM D226 (physicals)</td> <td>2009</td> </tr> <tr> <td>ASTM D4533 (tear strength)</td> <td>2015</td> </tr> <tr> <td>ASTM D4798 (weathering)</td> <td>2011</td> </tr> <tr> <td>ASTM D4869 (liquid transmission)</td> <td>2016</td> </tr> <tr> <td>ASTM D5035 (tensile strength)</td> <td>2011</td> </tr> </tbody> </table> | Standard | Year | ASTM D226 (physicals) | 2009 | ASTM D4533 (tear strength) | 2015 | ASTM D4798 (weathering) | 2011 | ASTM D4869 (liquid transmission) | 2016 | ASTM D5035 (tensile strength) | 2011 |
| Standard | Year | | | | | | | | | | | | |
| ASTM D226 (physicals) | 2009 | | | | | | | | | | | | |
| ASTM D4533 (tear strength) | 2015 | | | | | | | | | | | | |
| ASTM D4798 (weathering) | 2011 | | | | | | | | | | | | |
| ASTM D4869 (liquid transmission) | 2016 | | | | | | | | | | | | |
| ASTM D5035 (tensile strength) | 2011 | | | | | | | | | | | | |
| Equivalence of Product Standards Certified By | | | | | | | | | | | | | |
| Sections from the Code | | | | | | | | | | | | | |

| | |
|---------------------------|-------------------|
| Product Approval Method | Method 1 Option D |
| Date Submitted | 12/16/2020 |
| Date Validated | 12/17/2020 |
| Date Pending FBC Approval | 12/26/2020 |
| Date Approved | 02/09/2021 |

Summary of Products

| FL # | Model, Number or Name | Description |
|---|---|--|
| 15216.1 | RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments | Synthetic roof underlayments |
| Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See ER Section 5 for Limits of Use. | | Installation Instructions FL15216 R8 II 2020 12 15 FINAL ER OWENS CORNING RHINOROOFL15216-R8.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL15216 R8 AE 2020 12 15 FINAL ER OWENS CORNING RHINOROOFL15216-R8.pdf Created by Independent Third Party: Yes |

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EVALUATION REPORT

Owens Corning Roofing and Asphalt, LLC
One Owens Corning Parkway
Toledo, OH 43659
(740) 321-6345

Evaluation Report I40510.02.12-R9

FL15216-R8

Date of Issuance: 02/17/2012

Revision 9: 12/15/2020

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The products described herein have been evaluated for compliance with the **7th Edition (2020) Florida Building Code** sections noted herein.

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

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

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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

This Evaluation Report consists of pages 1 through 4.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 12/15/2020. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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

Sub-Category: Underlayment

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

2. STANDARDS:

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

3. REFERENCES:

| <u>Entity</u> | <u>Examination</u> | <u>Reference</u> | <u>Date</u> |
|---------------|----------------------------|----------------------|-------------|
| ITS (TST1509) | ASTM D226 | 100539395COQ-006 | 10/26/2011 |
| ITS (TST1509) | ASTM D4869 | 100539395COQ-002 | 10/26/2011 |
| PRI (TST5878) | ASTM D226 / D4798 / D4869 | OCF-394-02-07.4 | 01/06/2020 |
| PRI (TST5878) | ASTM D226 / D4798 | OCF-464-02-02.2 | 01/06/2020 |
| PRI (TST5878) | ASTM D4533 / D5035 / D4798 | 1378T0109 | 10/15/2020 |
| PRI (TST5878) | ASTM D4533 / D5035 | 1378T0127 | 10/15/2020 |
| ITS (QUA1673) | Quality Control | Service Confirmation | 12/09/2020 |
| ITS (QUA1673) | Quality Control | Florida BCIS | Current |

4. PRODUCT DESCRIPTION:

| | <u>Product</u> | <u>Specification</u> | <u>Plant(s)</u> | <u>Description</u> |
|-----|--------------------|---|-----------------|---|
| 4.1 | RhinoRoof U20 | 1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5) | Qingdao, China | Multilayered polymer woven coated synthetic roof underlayment |
| 4.2 | ABC Pro Guard 20 | 1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5) | Silvassa, India | Multilayered polymer woven coated synthetic roof underlayment |
| 4.3 | SRS TopShield TS20 | 1507.1.1.1(2&3, Exception), 1507.1.1.1(5) / R905.1.1.1(2&3, Exception), R905.1.1.1(5) | Silvassa, India | Multilayered polymer woven coated synthetic roof underlayment |

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.3 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** or **FBC HVHZ 1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.4 **RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.
- 5.5 Allowable roof covers:

| TABLE 1: ROOF COVER OPTIONS | | | | | |
|-----------------------------|-----------------------|----------------------------------|-----------------|------------------------------|---------------------------|
| FBC NON-HVHZ: | 1507.2 | 1507.3 | 1507.4 & 1507.5 | 1507.7 | 1507.8 & 1507.9 |
| FBC HVHZ: | TAS 110(S10), RAS 115 | TAS 110(S11), RAS 118, 119 & 120 | RAS 133 | TAS 110(S11) | RAS 130 |
| Underlayment | Asphalt Shingles | Clay and Concrete Tile | Metal | Slate or Slate-Type Shingles | Wood |
| RhinoRoof U20 | Yes | No | Yes | No | NON-HVHZ: No HVHZ: Yes |
| ABC Pro Guard 20 | Yes | No | Yes | No | NON-HVHZ: No HVHZ: Yes |
| SRS TopShield TS20 | Yes | No | Yes | No | NON-HVHZ: No HVHZ: Yes |

5.6 Exposure Limitations:

| TABLE 2: EXPOSURE LIMITATIONS | |
|-------------------------------|-------------------------|
| Underlayment | Maximum Exposure (days) |
| RhinoRoof U20 | 60 |
| ABC Pro Guard 20 | 30 |
| SRS TopShield TS20 | 30 |

6. INSTALLATION:

- 6.1 **RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments** shall be installed in accordance with the manufacturer’s published installation instructions subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- 6.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application.

6.3 RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments:

6.3.1 NON-HVHZ Jurisdictions:

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

6.3.1.2 Fasteners:

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

6.3.2 HVHZ Jurisdictions:

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

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

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

- END OF EVALUATION REPORT -



Courtesy Orange County Property Appraiser




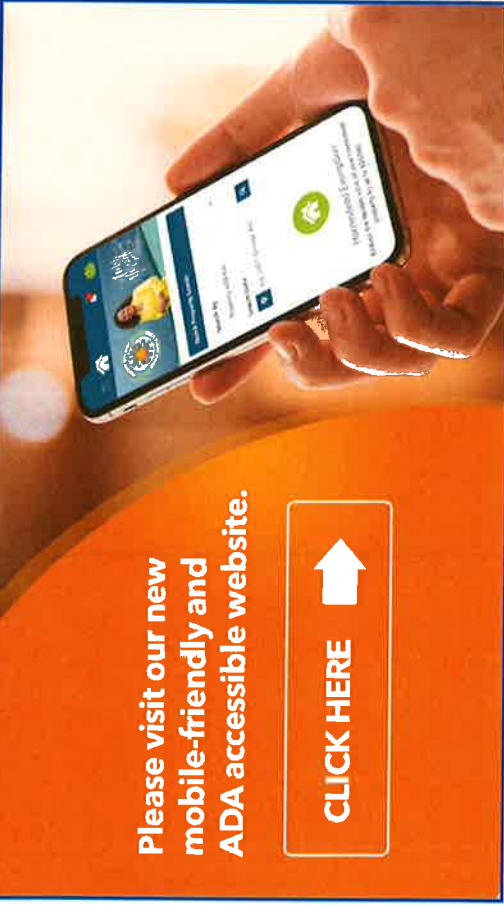
3019 CULLEN LAKE SHORE DR, ORLANDO, FL 32812 3/11/2019 3:36 PM



ORANGE COUNTY PROPERTY APPRAISER

Please visit our new mobile-friendly and ADA accessible website.

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3019 Cullen Lake Shore Dr < 17-23-30-4379-01-560 >

| | |
|----------------------------|---------------------------|
| Name(s) | Physical Street Address |
| Cox William S | 3019 Cullen Lake Shore Dr |
| Cox Bonnie H | Postal City and Zipcode |
| Mailing Address On File | Orlando, FL 32812 |
| 3019 Cullen Lake Shore Dr | Property Use |
| Belle Isle, FL 32812-1040 | 0130 - Sfr - Lake Front |
| Incorrect Mailing Address? | Municipality |
| | Belle Isle |



View 2020 Property Record Card

- [Property Features](#)
- [Values, Exemptions and Taxes](#)
- [Sales Analysis](#)
- [Location Info](#)
- [Market Stats](#)
- [Update Information](#)

2021 values will be available in August of 2021.

Property Description

[View Plat](#)

LAKE CONWAY ESTATES SECTION 3 Y/19 LOT 156


Total Land Area 28,823 sqft (+/-) | 0.66 acres (+/-) GIS Calculated Notice

Land

| Land Use Code | Zoning | Land Units | Unit Price | Land Value | Class Unit Price | Class Value |
|-------------------------|--------|------------|------------|------------|------------------|-------------|
| 0130 - Sfr - Lake Front | R-1-AA | 1 LOT(S) | working... | working... | working... | working... |

Page 1 of 1 (1 total records)

Buildings

| Important Information | | Structure | |
|---|---|--------------------------------|---|
|  | Model Code: 01 - Single Fam Residence | Actual Year Built: 1963 | Gross Area: 5430 sqft |
| | Type Code: 0103 - Single Fam Class III | Beds: 4 | Living Area: 2930 sqft |
| | Building Value: working... | Baths: 3.5 | Exterior Wall: Concrete/Cinder Block |
| | Estimated New Cost: working... | Floors: 2 | Interior Wall: Drywall |

Page 1 of 1 (1 total records)

Extra Features

| Description | Date Built | Units | XFOB Value |
|--------------------|------------|-----------|------------|
| FPL2 - Fireplace 2 | 01/01/1963 | 1 Unit(s) | working... |
| BD2 - Boat Dock 2 | 01/01/1991 | 1 Unit(s) | working... |
| PT3 - Patio 3 | 01/01/1991 | 1 Unit(s) | working... |

Page 1 of 1 (3 total records)

This Data Printed on 04/12/2021 and System Data Last Refreshed on 04/11/2021



Ron DeSantis, Governor

Halsey Beshears, Secretary



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

CONSTRUCTION INDUSTRY LICENSING BOARD

THE ROOFING CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES



EIDEN, WILLIAM J

PRIDE USA INC
17047 ROYAL PALM DRIVE
GROVELAND FL 34736

LICENSE NUMBER: CCC1325723

EXPIRATION DATE: AUGUST 31, 2022

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



LAKE COUNTY BUSINESS TAX RECEIPT
ENTERED SEPTEMBER 22, 2022



JIMMY PATRONIS
CHIEF FINANCIAL OFFICER

STATE OF FLORIDA
~~DEPARTMENT OF FINANCIAL SERVICES~~
DIVISION OF WORKERS' COMPENSATION

**** CERTIFICATE OF ELECTION TO BE EXEMPT FROM FLORIDA WORKERS' COMPENSATION LAW ****

CONSTRUCTION INDUSTRY EXEMPTION

This certifies that the individual listed below has elected to be exempt from Florida Workers' Compensation law.

EFFECTIVE DATE: 11/12/2019

EXPIRATION DATE: 11/11/2021

PERSON: WILLIAM J EIDEN

EMAIL: IMARTINIQUE@AOL.COM

FEIN: 593259873

BUSINESS NAME AND ADDRESS:

PRIDE USA, INC.

PRIDE ROOFING

17047 ROYAL PALM DRIVE

GROVELAND, FL 34736

SCOPE OF BUSINESS OR TRADE:

Roofing - All Kinds and
Drivers

IMPORTANT: Pursuant to subsection 440.05(14), F.S., an officer of a corporation who elects exemption from this chapter by filing a certificate of election under this section may not recover benefits or compensation under this chapter. Pursuant to subsection 440.05(12), F.S., Certificates of election to be exempt issued under subsection (3) shall apply only to the corporate officer named on the notice of election to be exempt and apply only within the scope of the business or trade listed on the notice of election to be exempt. Pursuant to subsection 440.05(13), F.S., notices of election to be exempt and certificates of election to be exempt shall be subject to revocation if, at any time after the filing of the notice or the issuance of the certificate, the person named on the notice or certificate no longer meets the requirements of this section for issuance of a certificate. The department shall revoke a certificate at any time for failure of the person named on the certificate to meet the requirements of this section.

City of Kissimmee

101 North Church Street
Kissimmee, FL 34741

BUSINESS TAX RECEIPT

BUSINESS TAX RECEIPT VALID FROM OCTOBER 1, 2020 THROUGH SEPTEMBER 30, 2021

LIC #: BTR-14967
CODE:
CONTACT: WILLIAM J. EIDEN
CATEGORY: SUB-CONTRACTOR/ROOFING

| FEE | PENALTY | TOTAL | VALIDATION |
|---------|---------|---------|------------|
| \$19.00 | \$0.00 | \$19.00 | 08/24/2020 |

Mailing Address

PRIDE USA INC / PRIDE ROOFING
17047 ROYAL PALM DR
GROVELAND, FL 34736

Business Address

PRIDE USA INC / PRIDE ROOFING
17047 ROYAL PALM DR
GROVELAND, FL 34736

LATE PENALTIES: AS OF OCTOBER 1 - 10%; AS OF NOVEMBER 1 - 15%; AS OF DECEMBER 1 - 20%; AS OF JANUARY 1 - 25%.
OPERATING A BUSINESS WITHOUT A BUSINESS TAX RECEIPT IS SUBJECT TO CIVIL ACTIONS AND A PENALTY OF UP TO \$250.