

## Evaluation Report

*of*

**Classic Products, Inc.**

**“Oxford Shingle”**

**Metal Roof Assembly**

*for*

**Florida Product Approval**

**# FL 10687.3**

**Florida Building Code 2007**

**Per Rule 9B-72**

**Method: 1 - D**

**Category: Roofing**

**Sub - Category: Metal Roofing**

**Product Name: “Oxford Shingle”**

**Product: Metal Roof Shingle**

**Material: Aluminum**

**Nominal Panel Thickness: 0.021” Minimum**

**Panel Dimensions: 12”x 60” Coverage Width**

**Support Type: Plywood Deck**

**Prepared for:**

**Classic Products, Inc.**

8510 Industry Park Drive

Piqua, OH 45356

**Prepared by:**

**James L. Buckner, P.E.**

Florida Professional Engineer # 31242

Florida Evaluation ANE ID: 1916


Project Manager: Diana Galloway

Report No. 08-157-OS-A21W-ER

Date: 5 / 1 / 08

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James L. Buckner, P.E.  
Florida P.E. # 31242  
5/8/08

**CBUCK, Inc.**

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# CBUCK Engineering

Specialty Structural Engineering

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<b>Manufacturer:</b>	<b>Classic Products, Inc.</b>
<b>Product Name:</b>	<b>“Oxford Shingle”</b>
<b>Product Category:</b>	Roofing
<b>Product Sub-Category</b>	Metal Roofing
<b>Compliance Method:</b>	State Product Approval Rule 9B-72.070 (1) (d)
<b>Panel Description:</b>	Aluminum Shingle Roof Panel
<b>Panel Material / Standards:</b>	Material Type: Aluminum Alloy Type: 3105-H27 Corrosion Resistance: Material shall comply with the Florida Building Code (FBC), 2007 Section 1507.4.3.
<b>Panel Dimension(s)</b>	Width: 12” (Coverage) Length: 60” (Coverage) Thickness: 0.021” minimum
<b>Support Type:</b>	<b>Wood Deck</b> (Design of support system is not included in this evaluation)
<b>Support Description:</b>	<ul style="list-style-type: none"><li>• 15/32” or greater plywood, or</li><li>• Wood plank</li></ul>
<b>Slope Range:</b>	Minimum slope shall be per FBC 2007, Section 1507.5.2, and in compliance with the Manufacturers recommendations <b>but no less than 3:12.</b>
<b>Underlayment:</b>	Underlayment shall be per manufacturer’s guidelines as required in FBC Section 1507.5.2.1 and in compliance with Section 1507.5.3.
<b>Fire Classification:</b>	Fire Classification is outside the scope of Rule 9B-72, and is therefore not included in this evaluation. Additional approved substrates may be added for Fire Classification purposes.

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**Attachment Component  
Description:**

**Roof Shingle Nail Clips**

Material: Aluminum  
Alloy Type: 3003 H14  
Thickness: 0.032"  
Nominal Dimensions: 0.435" (tall) x 7.25" (long)  
Manufactured by: Classic Products, Inc.  
Part #2028  
Corrosion Resistance:  
Material shall comply with the Florida Building Code (FBC), 2007  
Section 1507.6.7

**Nail Clip Fasteners**

Type: Ring Shank Nail  
Material: Aluminum or Stainless Steel  
Size: 0.145" diameter (7/16" head diameter) x 1-3/4" long  
Corrosion Resistance:  
Material shall comply with the Florida Building Code (FBC), 2007  
Section 1506.5.

**Installation:**

**“Oxford Shingle” Metal Roof Shingles to Deck**

1. **Five** aluminum nail clips per shingle.  
(along the length of the shingle and along the top lock)
2. Aluminum nail clip spacing: 13" o.c. maximum  
(and within 4" from each shingle panel end)
3. **Three** fasteners per aluminum nail clip.
4. Tuck bottom lock of succeeding layer of shingles into top lock of preceding layer of shingles to form an integral interlock.

Fasteners shall penetrate through deck a minimum of 3/16".

Install the system in compliance with the attached installation method.  
Refer to manufacturer's installation instructions as a supplemental guide for attachment.

**Design Uplift Pressure:** - 62.5 PSF ( Safety Factor of 2:1 )

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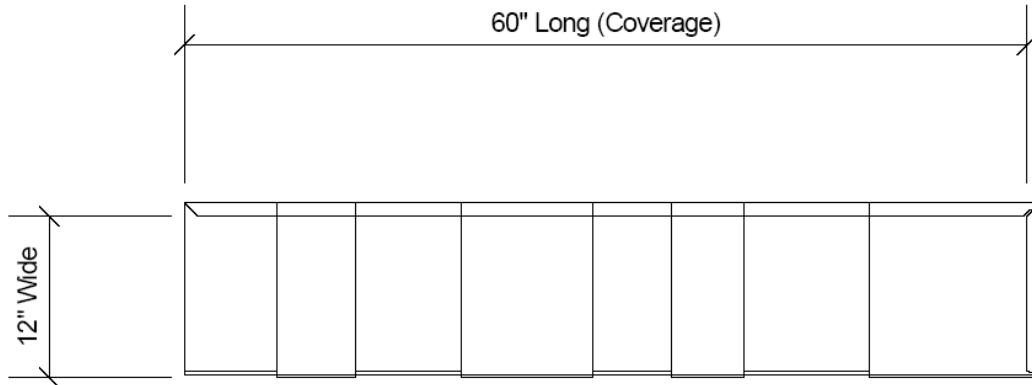
- Quality Assurance:** The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 9B-72.070 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Architectural Testing, Inc.** (FBC Organization #: QUA 1844)
- Performance Standards:** The product described herein has been tested in accordance with:
- **UL580-94** – *Test for Uplift Resistance of Roof Assemblies—with Revisions through February 1998*
- Code Compliance:** The product described herein has demonstrated compliance with the Florida Building Code 2007, Section 1504.3.2
- Evaluation Report Scope:** This product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code, as related to Rule 9B-72.
- System Limitations:** The required design wind loads shall be determined for each project per FBC, 2007, Section 1603.1.4. Any rational analysis shall be prepared by a qualified design professional and in compliance with FBC 2007, Sections 104, 105, 106. The maximum fastener spacing listed herein shall not be exceeded. This product is not evaluated for use in the High Velocity Hurricane Zone.
- Referenced Data:**
1. UL580-94  
By Farabaugh Engineering and Testing, Inc.  
(FBC Organization #TST ID: 1654)  
Project No. T117-06, Report Date: March 2, 2006
  2. Quality Assurance  
By Architectural Testing, Inc., (FBC Organization #QUA ID:1844)
  3. Certification of Independence  
By James L. Buckner, P.E. @ CBUCK Engineering  
(FBC Organization # ANE ID: 1916)
  4. Engineering Calculations  
By CBUCK Engineering
    - Report #C08-157, Dated: 5/1/08

# CBUCK Engineering

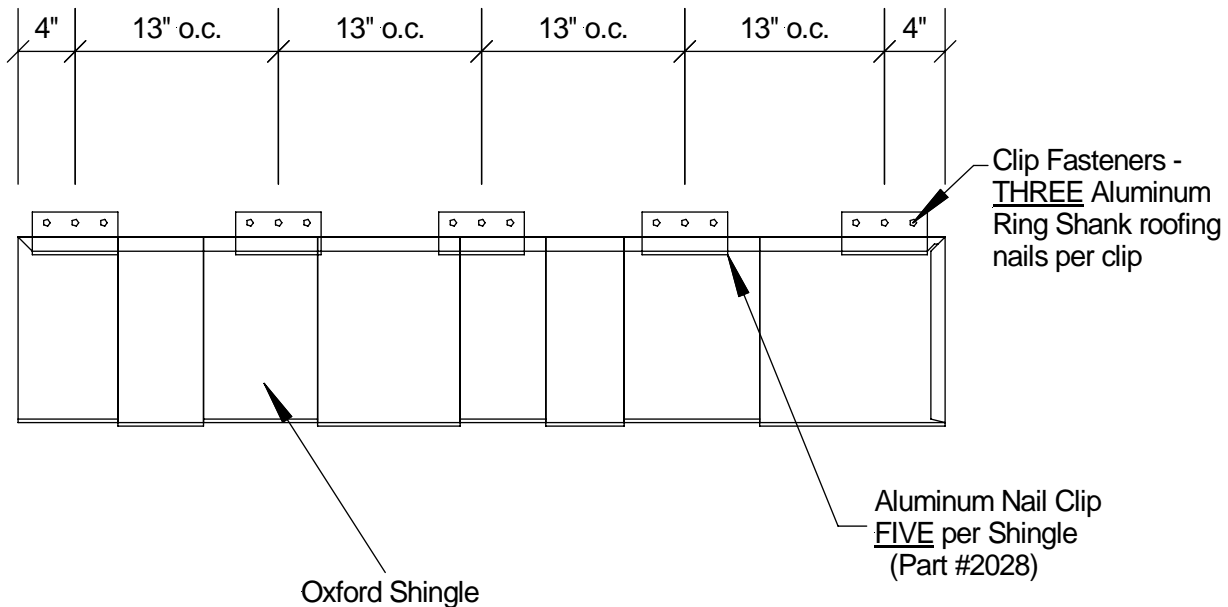
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## Installation Method Classic Products, Inc. "Oxford Shingle" Aluminum Roof Panel Attached to Wood Deck



Panel in Plan View



Clip Assembly in Plan View

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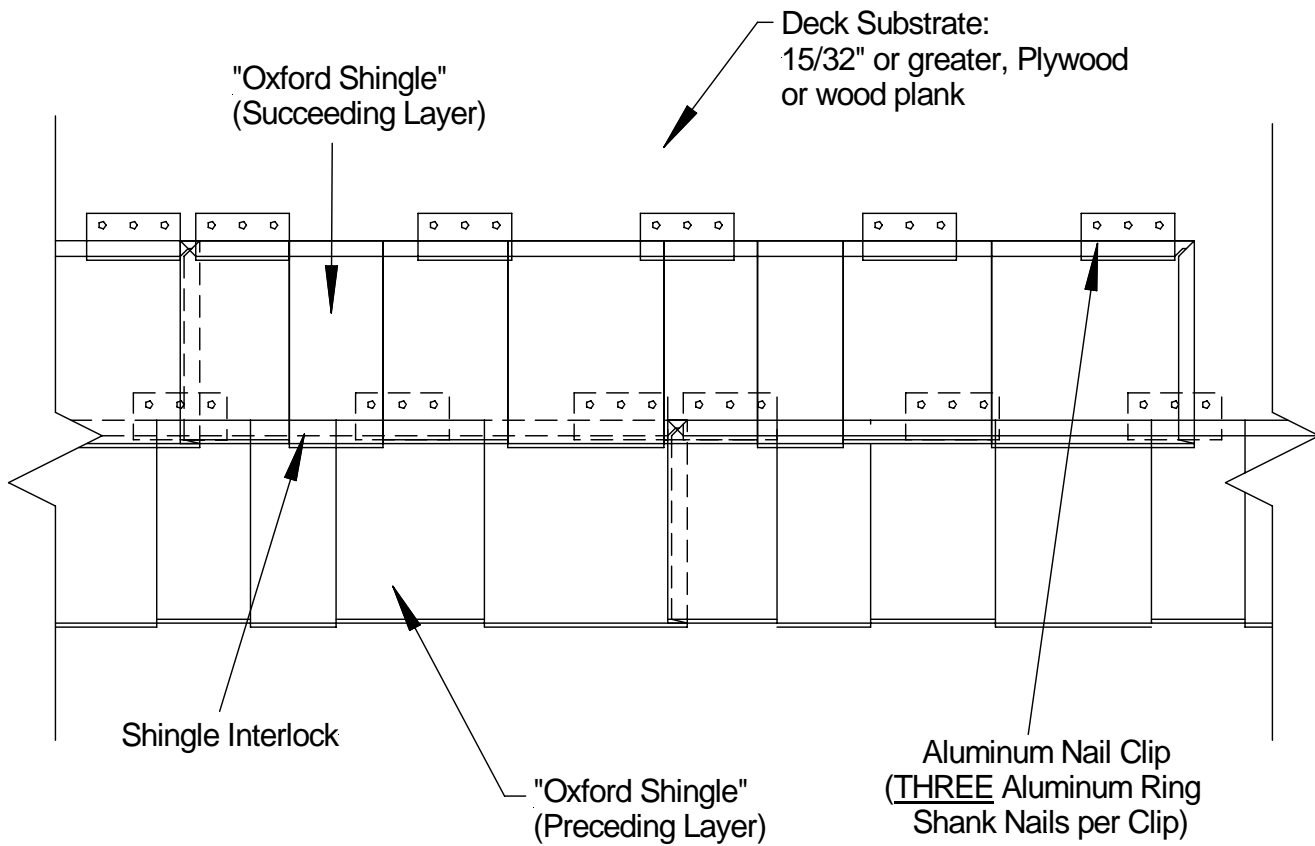
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## Installation Method (Continued)

Classic Products, Inc.

### “Oxford Shingle” Aluminum Roof Panel Attached to Wood Deck



Shingle Assembly in Plan View