

Evaluation Report
of
Millennium Metals, Inc.
“Tile Hip/Ridge Metal Channel”
Roof Tile Structural Component
for

Florida Product Approval
FL 11817.1

Florida Building Code 2007
Per Rule 9B-72

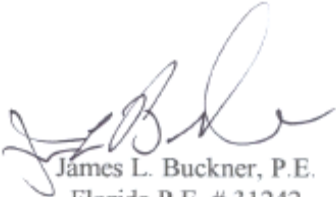
Method: 1 - D
Category: Roofing
Sub - Category: Roofing Accessories that are an Integral Part of the Roofing System

Product: *“Tile Hip/Ridge Metal Channel”*
Type: *Ridge Member*
Material: *Steel, 26 Gauge*
Product Description: *Preformed Metal Channel*

Prepared for:
Millennium Metals, Inc.
10200 Eastport Road
Jacksonville, FL 32218

Prepared by:
James L. Buckner, P.E.
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Youry Demosthenes
Report No. 08-390- RidgeMember-ER
Date: 12 / 12 / 08

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James L. Buckner, P.E.
Florida P.E. # 31242
12/15/08

CBUCK Engineering

Specialty Structural Engineering

CBUCK, Inc. Florida Certificate of Authorization # 8064

Manufacturer:	Millennium Metals, Inc.	
Product Name:	“Tile Hip/Ridge Metal Channel”	
Product Category:	Roofing	
Product Sub-Category	Roofing Accessories that are an Integral part of the Roofing System (Ridge Tile Structural Support)	
Compliance Method:	State Product Approval Rule 9B-72.070 (1) (d)	
Product Description:	Roof tile structural component, Preformed metal channel	
Product Material / Standards:	Material Type:	Steel
	Yield Strength:	50 ksi minimum
	Corrosion Resistance:	Shall comply with one of the following <ul style="list-style-type: none">• Galvanized, G90, ASTM A 653,• Aluminum-Zinc Coated Steel, AZ 50, ASTM A792
Nominal Dimension(s)	Length:	10’
	Thickness:	26 gauge minimum
	Height:	3”, 4”, 5”, 6”, 7”, or 8”
Support Type:	Wood Deck (Design of support system is not included in this evaluation)	

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- Installation:**
- Outside HVHZ:**
Install Component per FRSA/TRI 07320/08-05 *Concrete and Clay Roof Tile Installation Manual, Fourth Edition*, Section 6.1.
- Inside HVHZ:**
Install Component per one of the following:
- RAS 118, Section 3.11, Detail 3
 - RAS 119, Section 3.12, Detail 3
 - RAS 120, Section 3.10, Detail 3
- Refer to manufacturer's installation instructions as a supplemental guide for attachment.
- 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 **Keystone Certifications, Inc.** (FBC Organization #: QUA 1824)
- Performance Standards:**
- Outside HVHZ:** FRSA/TRI 07320/08-05 *Concrete and Clay Roof Tile Installation Manual, Fourth Edition*.
- Inside HVHZ:** RAS 118, RAS 119, or RAS 120.
- Code Compliance:**
- Outside HVHZ:**
The product described herein has demonstrated compliance with the Florida Building Code 2007 Section 1507.3.7
- Inside HVHZ:**
The product described herein has demonstrated compliance with the Florida Building Code 2007, Section 1518.8.1
- Evaluation Report Scope:** This product evaluation is limited to compliance with the prescriptive structural requirements of the Florida Building Code, including both outside HVHZ and inside HVHZ, as related to Rule 9B-72.



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System Limitations:

Outside HVHZ: This component shall be installed within the requirements of FRSA/TRI 07320/08-05 *Concrete and Clay Roof Tile Installation Manual, Fourth Edition.*

Inside HVHZ: This component shall be installed within the requirements of RAS 118, RAS 119, or RAS 120.

Referenced Data:

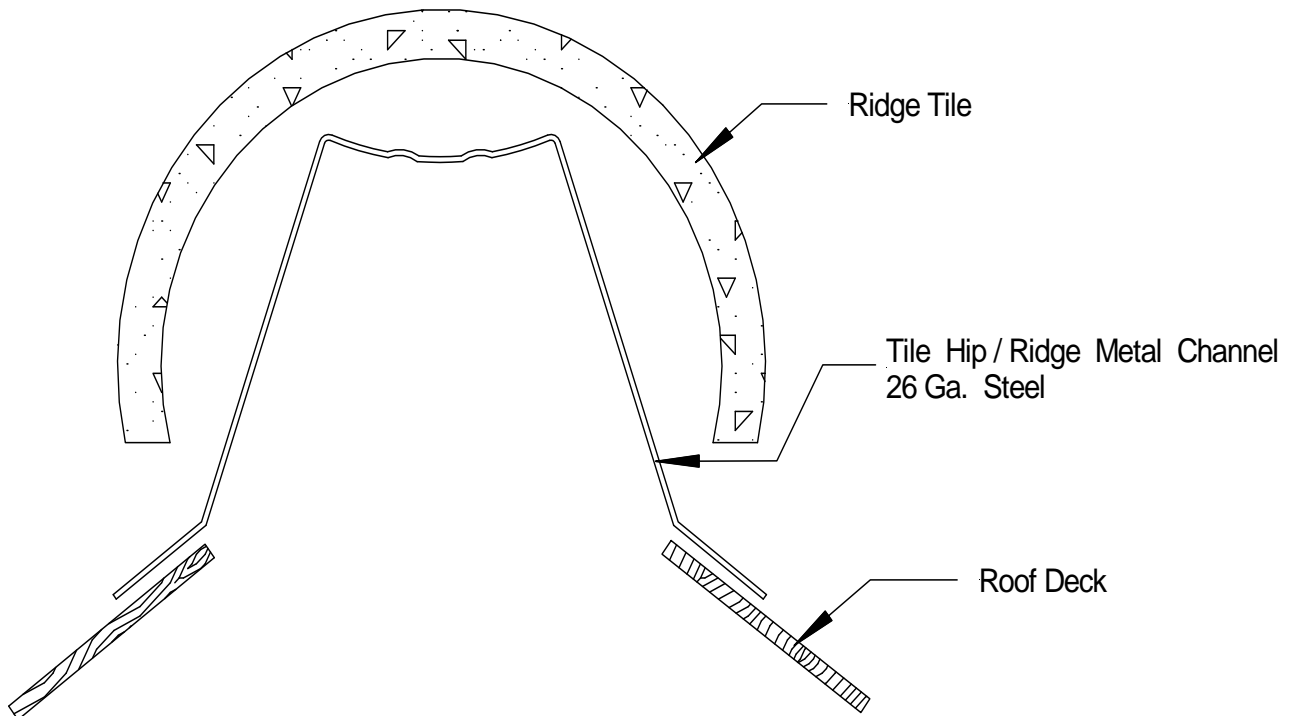
1. Quality Assurance
By Keystone Certifications, Inc., (FBC Organization #QUA ID:1824)
Millennium Metals, Inc. License # 423
2. Certification of Independence
By James L. Buckner, P.E. @ C-Buck Engineering
(FBC Organization # ANE 1916)

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Installation Method Millennium Metals, Inc. “Tile Hip/Ridge Metal Channel”



Profile

Installation Method: **Outside HVHZ:** Install Component per FRSA/TRI 07320/08-05 *Concrete and Clay Roof Tile Installation Manual, Fourth Edition, Section 6.1.*

Inside HVHZ: Install Component per one of the following:

- RAS 118, Section 3.11, Detail 3
- RAS 119, Section 3.12, Detail 3
- RAS 120, Section 3.10, Detail 3