

Certificate of Authorization No. 29824 17520 Edinburgh Dr Tampa, FL 33647 (813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 5TH EDITION (2014)

Manufacturer: VARITILE INC.

Issued October 27, 2015

6 Denny Rd. Ste. 200 Wilmington, DE 19809

(541) 948-3887 www.varitile.com

Manufacturing: Belgium

Quality Assurance: UL LLC (QUA1743)

SCOPE

Category:RoofingSubcategory:Metal Roofing

Code Sections: 1504.3.1, 1504.3.2, 1518.9, 1523.6.5.2.4

Properties: Wind Resistance, Wind-Driven Rain, Physical Properties

PRODUCT DESCRIPTION

Bond (7 pan)

Profile: Beavertail Tile; 14.57 in. x 50 in. coverage **Description:** Preformed, fastened, stoned-coated steel panels

Material: Min. 26 ga. ASTM A792 AZ50; F_y = min. 50 ksi; Shall conform with FBC Section

1507.4.3





Classic

Profile: Metal panel; 14.57 in. x 49.8 in. coverage **Description:** Preformed, fastened, stoned-coated steel panels

Material: Min. 26 ga. ASTM A792 AZ50; F_y = min. 50 ksi; Shall conform with FBC Section

1507.4.3



<u>Gallo</u>

Profile: Metal panel; 14.57 in. x 46.65 in. coverage **Description:** Preformed, fastened, stoned-coated steel panels **Material:** Min. 26 ga. ASTM A792 AZ50: F_V = min. 50 ksi: \$

Min. 26 ga. ASTM A792 AZ50; $F_y = min. 50 ksi$; Shall conform with FBC Section

1507.4.3

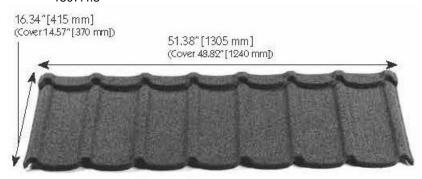


Mistral

Profile: Metal panel; 14.57 in. x 48.82 in. coverage **Description:** Preformed, fastened, stoned-coated steel panels

Material: Min. 26 ga. ASTM A792 AZ50; $F_y = min. 50 ksi$; Shall conform with FBC Section

1507.4.3





Romana

Profile: Barrel tile; 14.57 in. x 42.91 in. coverage

Description: Preformed, fastened, stoned-coated steel panels

Material: Min. 25 ga. ASTM A792 AZ50; $F_y = min. 50 ksi$; Shall conform with FBC Section

Shake

Profile: Wood shake; 14.57 in. x 49.8 in. coverage **Description:** Preformed, fastened, stoned-coated steel panels

Material: Min. 26 ga. ASTM A792 AZ50; $F_y = min. 50 ksi$; Shall conform with FBC Section

1507.4.3



Viksen

Profile: Wood shingle; 14.57 in. x 49.61 in. coverage **Description:** Preformed, fastened, stoned-coated steel panels

Material: Min. 26 ga. ASTM A792 AZ50; F_y = min. 50 ksi; Shall conform with FBC Section

1507.4.3





APPROVED ASSEMBLIES

System 1 -	Bond (7	7 pan) ove	er wood b	attens					
Slope:	3:12 or greater								
Roof Deck:		max. 24 ir	n. span; In t	min. 15/32 ir he HVHZ, n by others ir	ew constru	ction shall b	e min. 19/3	2 in. plywoo	
Underlayment: Installed in accordance with FBC requirement shall be ASTM D 226, Type II installed as d and rake edges, the underlayment shall sheathing. After installation of the drip edge applied to cover the drip edge.					escribed in be folded o	RAS 115 Solown to co	ection 4. A ver the ed	t the eave ge of the	
Batten: Nominal 2x2 SPF, SYP or DF fastened to rafter with one (1) #10 x 3-1/2 in. wood per truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathing, mi between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spatial-1/2 in. o.c.						, mid-span			
Attachment: Bond (7 pan) panels installed over batte Nailscrews located through the head la Panels applied with 14-1/2 in. exposure must be corrosion resistant in accordance					head lap o cposure and	f each pan d overlappe	el as show d adjacently	n on follov	ing page.
Maximum De Pressures:	sign	-75 psf Pressure ca	alculated usin	g 2:1 margin	of safety per	1504.9			
		Ma		an Roof He Slopes 2:12		able Roofs			
_				9Basic	Wind Speed	d (mph)			
Exposure	120	130	140	150	160	170	180	190	200
		1		Zone 1 –	Field				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
				Zone 2 – Pe	erimeter				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	50 ft	40 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft	25 ft	NA	NA
D	60 ft	60 ft	60 ft	60 ft	30 ft	15 ft	NA	NA	NA
				Zone 3 – 0	Corner				
В	60 ft	60 ft	60 ft	60 ft	40 ft	30 ft	NA	NA	NA
С	60 ft	60 ft	40 ft	20 ft	NA	NA	NA	NA	NA
D Notes: 1) F	60 ft	40 ft	15 ft	NA	NA	NA	NA	NA	NA

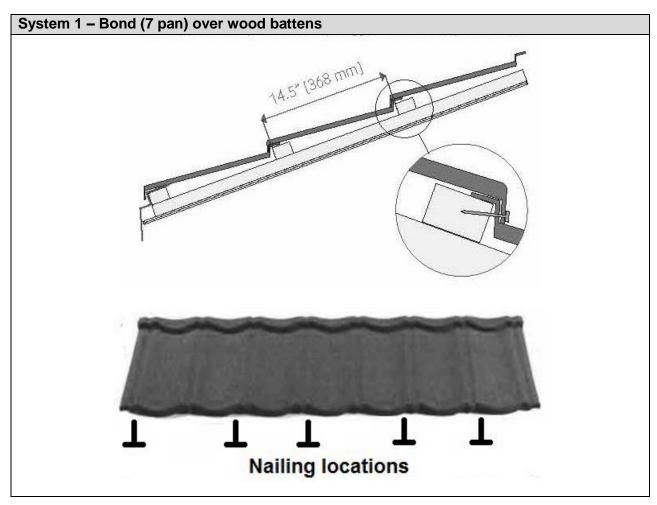
Notes:

- 1) Exposure category for the structure location shall be as defined in the Florida Building Code
- 2) Limitations are based on the exposed area of 10ft² or less
- 3) Topographic factors such as escarpments or hills are not included in the above assessment
- 4) Applicable for Enclosed Buildings without overhangs
- 5) NA = "Not Allowed" 6) $K_d = 0.85$
- 7) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional
- 8) See page 15 for details for dimensions and locales of Zone 1, 2, and 3
- 9) V_{ult} is shown in the above table. Design pressures are calculated using $V_{asd} = V_{ult} \sqrt{0.6}$ per 1609.3.1.
- 10) For Hip roofs between 2:12 and 5.6:12, Zone 3 shall be treated as Zone 2.

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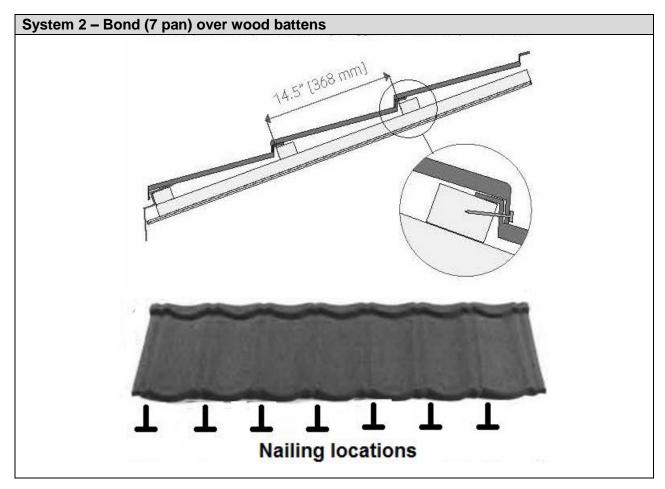
System 2 -	- Bond (7	pan) ove	er wood b	attens					
Slope:		3:12 or gre	eater						
Roof Deck: Solid or closely fitted min. 15/32 in. plywood sheathing for new and exmax. 24 in. span; In the HVHZ, new construction shall be min. 19/32 24 in. span; Designed by others in accordance with FBC requirements						2 in. plywoo			
Underlayment: Installed in according shall be ASTM D and rake edges sheathing. After applied to cover the shall be according to the shall be accord				i, Type II ins e underlaym tallation of t	stalled as de nent shall b	escribed in be folded o	RAS 115 Solown to co	ection 4. Aver the ed	t the eave ge of the
Batten: Nominal 2x2 SPF, SYP or DF fastened to rafter with two (2) #10 x 3-1/2 in. wood sper truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathing, mid between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten span 14-1/2 in. o.c.						, mid-span			
Attachment:		Bond (7 pan) panels installed over batten with seven (7) 11.5 ga. x 2-1/4 in. UFO Ballistic Nailscrews located through the head lap of each panel as shown on following page. Panels applied with 14-1/2 in. exposure and overlapped adjacently 2-1/2 in. Fasteners must be corrosion resistant in accordance with section 1507.4.4.							
Maximum Des Pressures:	sign	-135 psf Pressure ca	alculated usin	g 2:1 margin	of safety per	1504.9			
		Ма		an Roof Hei Slopes 2:12		able Roofs			
F				9Basic \	Wind Speed	l (mph)			
Exposure	120	130	140	150	160	170	180	190	200
				Zone 1 –	Field				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
				Zone 2 – Pe	erimeter				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
				Zone 3 – 0	Corner				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	30 ft	20 ft
D	60 ft	60 ft	60 ft	60 ft on shall be as	60 ft	50 ft	25 ft	15 ft	NA

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- 10) For Hip roofs between 2:12 and 5.6:12, Zone 3 shall be treated as Zone 2.

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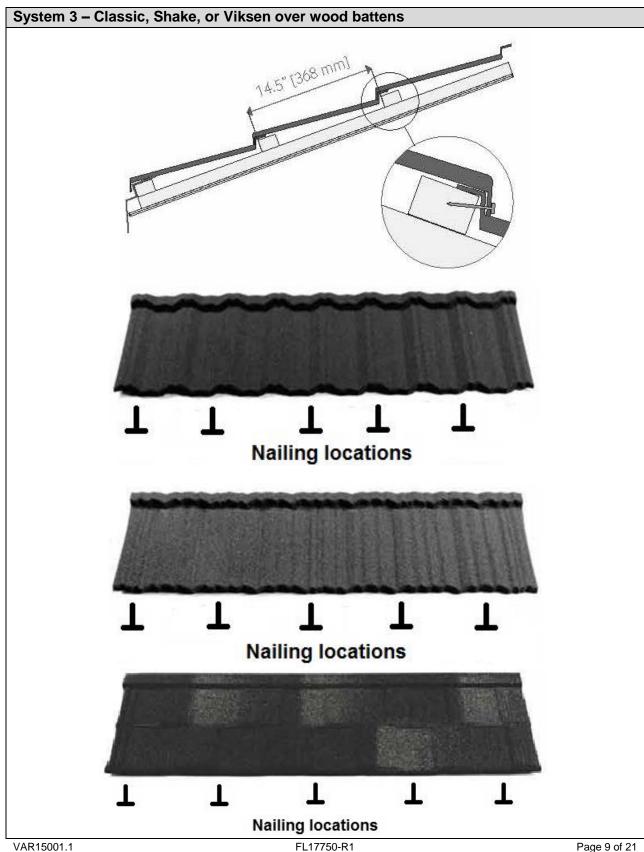
System 3 -	- Classic	, Shake, d	or Viksen	over woo	od batten	s				
Slope:		3:12 or gr	eater							
Roof Deck:		Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction at max. 24 in. span; In the HVHZ, new construction shall be min. 19/32 in. plywood at max. 24 in. span; Designed by others in accordance with FBC requirements.								
Underlayment	t:	Installed in accordance with FBC requirements. In the HVHZ, the minimum underlayment shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. At the eave and rake edges, the underlayment shall be folded down to cover the edge of the sheathing. After installation of the drip edge metal, a layer of underlayment shall be applied to cover the drip edge.								
Batten: Nominal 2x2 SPF, SYP or DF fastened to rafter with one (1) #10 x per truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into between truss/rafter intersections (max. spacing 24 in. o.c.). Maxim 14-1/2 in. o.c.						sheathing	, mid-span			
Attachment:		Classic or Shake panels installed over batten with five (5) 11.5 ga. x 2-1/4 in. UFO Ballistic Nailscrews located through the head lap of each panel as shown on following page. Panels applied with 14-1/2 in. exposure and overlapped adjacently 2-1/2 in. Fasteners must be corrosion resistant in accordance with section 1507.4.4.								
Maximum Des Pressures:	sign	-86.25 pst Pressure ca		g 2:1 margin	of safety per	1504.9				
		Ma		an Roof He		able Roofs				
F				⁹ Basic '	Wind Speed	d (mph)				
Exposure	120	130	140	150	160	170	180	190	200	
		•		Zone 1 –	Field					
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
				Zone 2 – Pe	erimeter					
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft	25 ft	15 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	30 ft	20 ft	NA	NA	
				Zone 3 – 0	Corner					
В	60 ft	60 ft	60 ft	60 ft	60 ft	50 ft	30 ft	NA	NA	
С	60 ft	60 ft	60 ft	40 ft	20 ft	NA	NA	NA	NA	
D	60 ft	60 ft	30 ft	15 ft	NA	NA	NA	NA	NA	

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- 8) See page 15 for details for dimensions and locales of Zone 1, 2, and 3
- 9) V_{ult} is shown in the above table. Design pressures are calculated using $V_{asd} = V_{ult} \sqrt{0.6}$ per 1609.3.1.
- 10) For Hip roofs between 2:12 and 5.6:12, Zone 3 shall be treated as Zone 2.

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VAR15001.1



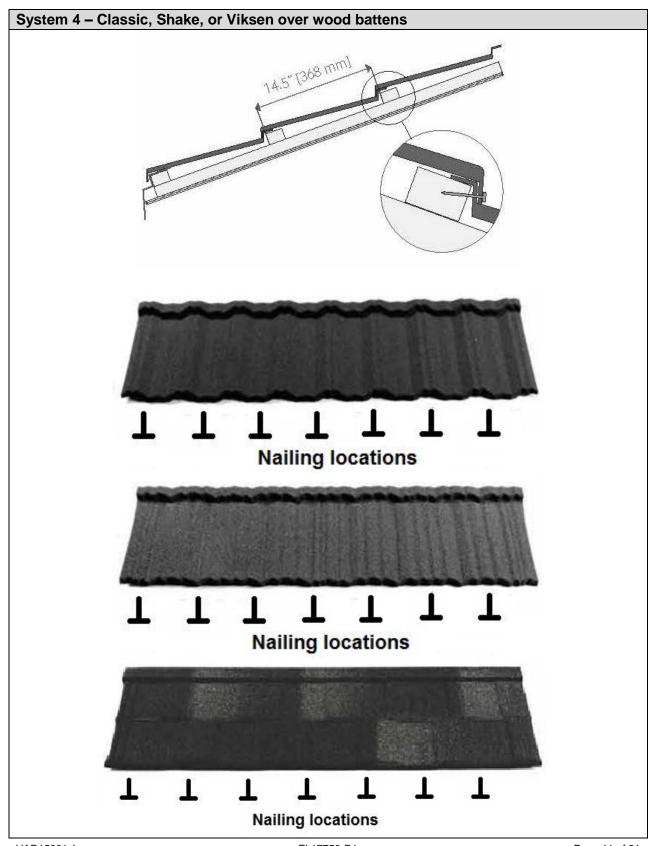
System 4 -	- Classic	, Shake, d	or Viksen	over woo	od batten	s			
Slope:	Slope: 3:12 or greater								
Roof Deck: Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing cons max. 24 in. span; In the HVHZ, new construction shall be min. 19/32 in. plywood 24 in. span; Designed by others in accordance with FBC requirements.									
Installed in accordance with FBC requirements. In the H' shall be ASTM D 226, Type II installed as described in F and rake edges, the underlayment shall be folded disheathing. After installation of the drip edge metal, a applied to cover the drip edge.					RAS 115 Solown to co	ection 4. A	t the eave ge of the		
Batten: Nominal 2x2 SPF, SYP or DF fastened to rafter with two (2) #10 x 3-1/2 in. wood s per truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathing, mid between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten space 14-1/2 in. o.c.						, mid-span			
Attachment:		Classic or Shake panels installed over batten with seven (7) 11.5 ga. x 2-1/4 in. UFO Ballistic Nailscrews located through the head lap of each panel as shown on following page. Panels applied with 14-1/2 in. exposure and overlapped adjacently 2-1/2 in. Fasteners must be corrosion resistant in accordance with section 1507.4.4.							
Maximum Design Pressures: -112.5 psf Pressure calculated using 2:1 margin of safety per 1504.9									
		Ма		an Roof He Slopes 2:12		able Roofs			
ı				9Basic	Wind Speed	d (mph)			
Exposure	120	130	140	150	160	170	180	190	200
				Zone 1 –	Field				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
				Zone 2 – Pe	erimeter				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft	25 ft
				Zone 3 – 0	Corner				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft	25 ft	15 ft	NA
D	60 ft	60 ft	60 ft	60 ft	30 ft	15 ft	NA	NA	NA

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- 10) For Hip roofs between 2:12 and 5.6:12, Zone 3 shall be treated as Zone 2.

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System 5 -	Romana	over wo	od batter	าร					
Slope:		3:12 or gre	eater						
Roof Deck:	Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction shall be min. 19/32 in. plywood a 24 in. span; In the HVHZ, new construction shall be min. 19/32 in. plywood a 24 in. span; Designed by others in accordance with FBC requirements.								
Installed in accordance with FBC requirem shall be ASTM D 226, Type II installed as underlayment: and rake edges, the underlayment shall sheathing. After installation of the drip applied to cover the drip edge.					stalled as de nent shall b	escribed in be folded o	RAS 115 Solown to co	ection 4. A ver the ed	t the eave ge of the
Batten: Nominal 2x2 SPF, SYP or DF fastened to rafter with one (1) #10 x 3-1/2 in. wood per truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathing, mi between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spatial-1/2 in. o.c.							, mid-span		
Attachment:		Romana panels installed over batten with six (6) 11.5 ga. x 2-1/4 in. UFO Ballistic Nailscrews located through the head lap of each panel as shown on following page. Panels applied with 14-1/2 in. exposure and overlapped adjacently 3-1/8 in. Fasteners must be corrosion resistant in accordance with section 1507.4.4.							
Maximum Des Pressures:	sign	-105 psf Pressure ca	alculated usin	ng 2:1 margin	of safety per	1504.9			
		Ма		an Roof He Slopes 2:12		able Roofs			
_				⁹ Basic '	Wind Speed	d (mph)			
Exposure	120	130	140	150	160	170	180	190	200
				Zone 1 –	Field				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
				Zone 2 – Pe	erimeter				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	30 ft	15 ft
				Zone 3 – 0					
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft	30 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	30 ft	15 ft	NA	NA
D	60 ft	60 ft	60 ft	50 ft	25 ft	NA	NA	NA	NA

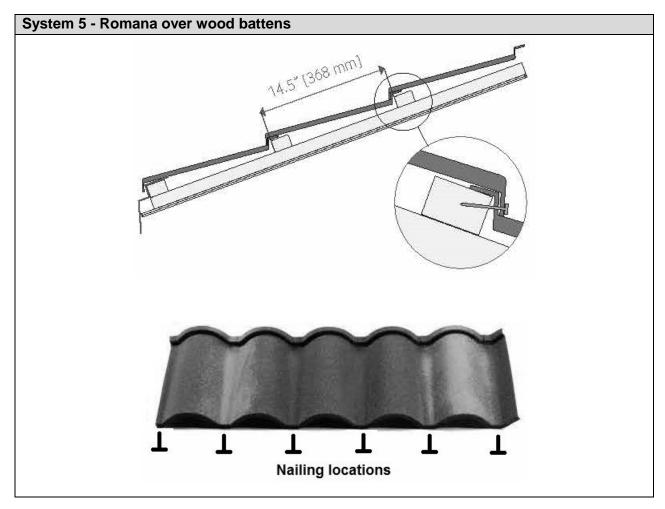
- | 60 ft | 60 ft | 60 ft | 50 ft | 25 ft | NA | NA |

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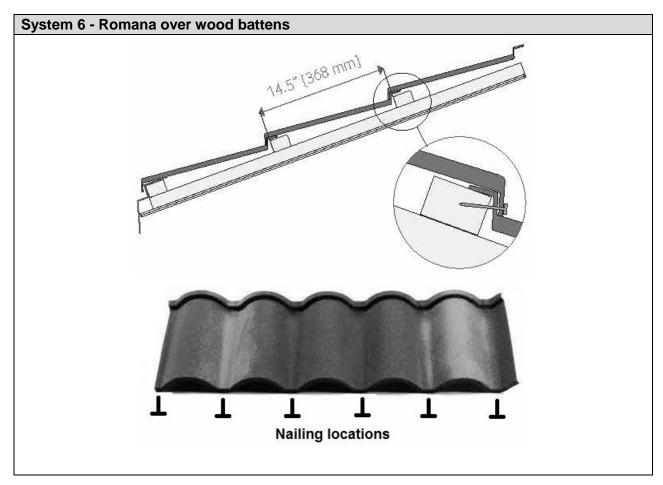
System 6	- Romana	a over wo	od batten	ıs					
Slope:		3:12 or gre	eater						
Roof Deck:		max. 24 ir	n. span; In t	min. 15/32 ir he HVHZ, n by others in	ew constru	ction shall b	e min. 19/3	2 in. plywoo	
Underlaymen	t:	Installed in accordance with FBC requirements. In the HVHZ, the minimum underlayment shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. At the eave and rake edges, the underlayment shall be folded down to cover the edge of the sheathing. After installation of the drip edge metal, a layer of underlayment shall be applied to cover the drip edge.							
Batten: Nominal 2x2 SPF, SYP or DF fastened to rafter with two (2) #10 x 3-1/2 in. wood per truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathing, r between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten space 14-1/2 in. o.c.						, mid-span			
Attachment:		Romana panels installed over batten with six (6) 11.5 ga. x 2-1/4 in. UFO Ballistic Nailscrews located through the head lap of each panel as shown on following page. Panels applied with 14-1/2 in. exposure and overlapped adjacently 3-1/8 in. Fasteners must be corrosion resistant in accordance with section 1507.4.4.							
Maximum De Pressures:	sign	-172.5 psi Pressure ca		g 2:1 margin	of safety per	1504.9			
		Ma		an Roof Hei Slopes 2:12		able Roofs			
_				9Basic \	Wind Speed	d (mph)			
Exposure	120	130	140	150	160	170	180	190	200
				Zone 1 –	Field				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
				Zone 2 – Pe	erimeter				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
				Zone 3 – 0					
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
C	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	30 ft

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- 10) For Hip roofs between 2:12 and 5.6:12, Zone 3 shall be treated as Zone 2.

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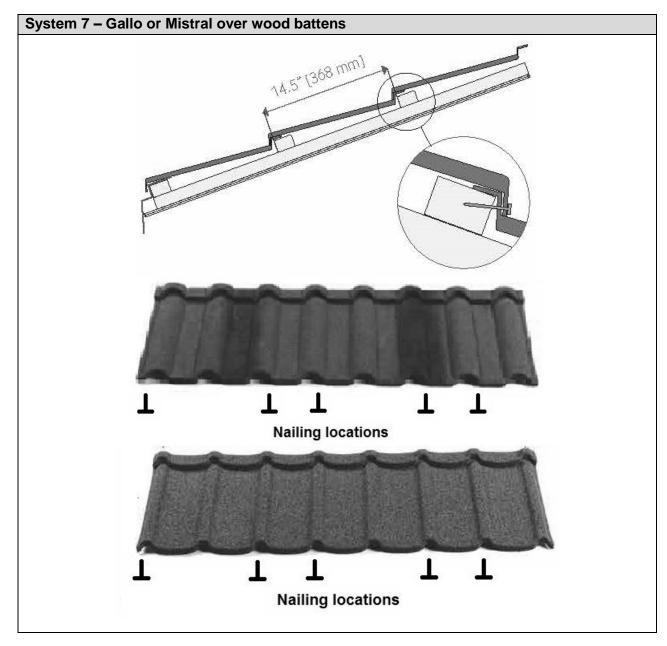
System 7 -	- Gallo o	r Mistral o	over woo	d battens					
Slope:		3:12 or gre	eater						
Roof Deck:		max. 24 ir	n. span; In t	min. 15/32 ir he HVHZ, n by others in	ew construc	ction shall b	e min. 19/3	2 in. plywoo	
Underlaymen	t:	Installed in accordance with FBC requirements. In the HVHZ, the minimum underlayment shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. At the eave and rake edges, the underlayment shall be folded down to cover the edge of the sheathing. After installation of the drip edge metal, a layer of underlayment shall be applied to cover the drip edge.							
Batten: Nominal 2x2 SPF, SYP or DF fastened to rafter with one (1) #10 x 3-1/2 in. woo per truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathing, m between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten sp 14-1/2 in. o.c.						, mid-span			
Attachment:		Panels installed over batten with five (5) 11.5 ga. x 2-1/4 in. UFO Ballistic Nailscrews located through the head lap of each panel as shown on following page. Panels applied with 14-1/2 in. exposure and overlapped adjacently 3-1/8 in. Fasteners must be corrosion resistant in accordance with section 1507.4.4.							
Maximum Des Pressures:	sign	-86.25 psf Pressure ca		g 2:1 margin	of safety per	1504.9			
		Ма		an Roof He Slopes 2:12		able Roofs			
_				⁹ Basic '	Wind Speed	d (mph)			
Exposure	120	130	140	150	160	170	180	190	200
		<u> </u>		Zone 1 –	Field				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
				Zone 2 – Pe	erimeter				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft	25 ft	15 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	30 ft	20 ft	NA	NA
				Zone 3 – 0	Corner				
В	60 ft	60 ft	60 ft	60 ft	60 ft	50 ft	30 ft	NA	NA
С	60 ft	60 ft	60 ft	40 ft	20 ft	NA	NA	NA	NA
D	60 ft	60 ft	30 ft	15 ft	NA	NA	NA	NA	NA

- 1) Exposure category for the structure location shall be as defined in the Florida Building Code
- 2) Limitations are based on the exposed area of 10ft² or less
- 3) Topographic factors such as escarpments or hills are not included in the above assessment
- 4) Applicable for Enclosed Buildings without overhangs
- 5) NA = "Not Allowed" 6) $K_d = 0.85$
- 7) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional
- 8) See page 15 for details for dimensions and locales of Zone 1, 2, and 3
- 9) V_{ult} is shown in the above table. Design pressures are calculated using $V_{asd} = V_{ult} \sqrt{0.6}$ per 1609.3.1.
- 10) For Hip roofs between 2:12 and 5.6:12, Zone 3 shall be treated as Zone 2.

Continued on next page

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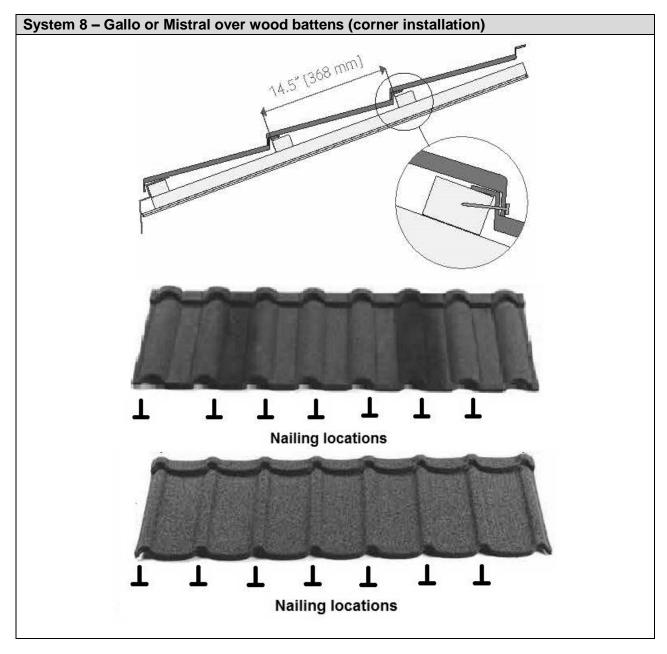
System 8 -	- Gallo oı	Mistral o	over woo	d battens						
Slope:	3:12 or greater									
Roof Deck:		max. 24 ir	osely fitted r n. span; In t n; Designed	he HVHZ, n	ew construc	ction shall b	e min. 19/3	2 in. plywoo		
Underlaymen	t:	Installed in accordance with FBC requirements. In the HVHZ, the minimum underlayment shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. At the eave and rake edges, the underlayment shall be folded down to cover the edge of the sheathing. After installation of the drip edge metal, a layer of underlayment shall be applied to cover the drip edge.								
Batten: Nominal 2x2 SPF, SYP or DF fastened to rafter with two (2) #10 x 3-1/2 in. v per truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathir between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batte 14-1/2 in. o.c.						o sheathing	, mid-span			
Attachment:		Mistral panels installed over batten with seven (7) 11.5 ga. x 2-1/4 in. UFO Ballistic Nailscrews located through the head lap of each panel as shown on following page. Panels applied with 14-1/2 in. exposure and overlapped adjacently 3-1/8 in. Fasteners must be corrosion resistant in accordance with section 1507.4.4.								
Maximum Des Pressures:	sign	-142.5 psf Pressure calculated using 2:1 margin of safety per 1504.9								
		Ma	aximum Me	an Roof He Slopes 2:12		able Roofs				
_				⁹ Basic	Wind Speed	d (mph)				
Exposure	120	130	140	150	160	170	180	190	200	
				Zone 1 –	Field					
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
				Zone 2 – Po	erimeter					
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
				Zone 3 – 0	Corner					
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	40 ft	30 ft	
	60 ft		60 ft	60 ft	60 ft	60 ft	30 ft	20 ft	NA	

- 1) Exposure category for the structure location shall be as defined in the Florida Building Code
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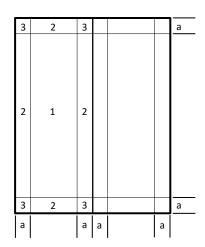
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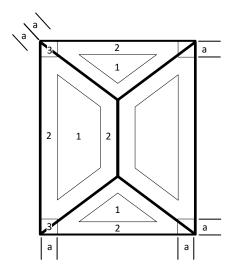




Gable



Hip



Dimension "a" shall be 10% of the least horizontal dimension or (0.4 x *Mean Roof Height*), whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft.

REFERENCES

<u>Entity</u>	Report No.	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	MTTE-001-02-01	ASTM G 155	2005a
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	MTTE-002-02-01	ASTM B 117	2011
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	MTTE-003-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	MTTE-004-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	MTTE-005-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	MTTE-008-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	MTTE-009-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	MTTE-010-02-01	ASTM E 8	2013a
PRI Construction Materials Technologies (TST5878)	VRT-003-02-01	TAS 125	2003
		UL 580	2006
		UL 1897	2004
UL LLC (TST9628)	ER38141-01	ICC-ES AC10	2014
		ICC-ES AC166	2012

LIMITATIONS

- 1. Fire classification is not within the scope of this evaluation.
- 2. The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
- 3. Reroofing shall be in accordance with FBC Section 1510 or Section 1521 within the HVHZ.
- 4. Installation of the evaluated products shall comply with this report, the FBC and RAS 133 in the HVHZ and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 5. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.



COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 5th Edition (2014) as evidenced in the referenced documents submitted by the named manufacturer.



Zachary R. Priest, P.E. Florida Registration No. 74021 Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT

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