

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

EVALUATION REPORT

FLORIDA BUILDING CODE, 6TH EDITION (2017)

Manufacturer: VARITILE INC.

Issued August 13, 2018

6 Denny Rd. Ste. 200 Wilmington, DE 19809

(541) 948-3887 www.varitile.com

Manufacturing: Belgium

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category:RoofingSubcategory:Metal Roofing

Code Sections: 1504.3.1, 1504.3.2, 1518.9, 1523.1.1, 1523.6.5.2.4 **Properties:** Wind Resistance, Wind-Driven Rain, Physical Properties

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	2016
		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	2016a
PRI Construction Materials Technologies (TST5878)	VRT-003-02-01	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	VRT-007-02-01	TAS 125	2003
		UL 580	2006
		UL 1897	2012
UL LLC (TST9628)	ER38141-01	ICC-ES AC10	2014
,		ICC-ES AC166	2012



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

Material:

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

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

1507.4.3
16.34"[415 mm]
(Cover14.57"[370 mm])

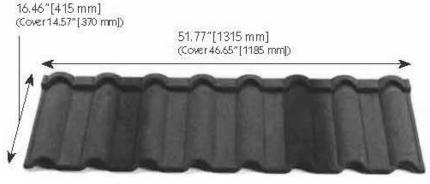
52.36"[1330 mm]
(Cover49.80"[1265 mm])

<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_y = min. 50 ksi; Shall conform with FBC Section

1507.4.3



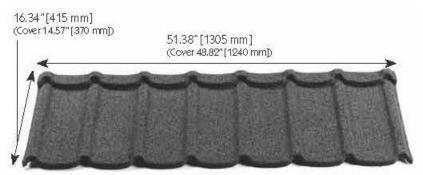


Mistral

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_v = min. 50 ksi; Shall conform with FBC Section

1507.4.3



Riviera

Profile: Metal panel; 14.57 in. x 47.76 in. coverage **Description:** Preformed, fastened, stoned-coated steel panels Material:

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

1507.4.3

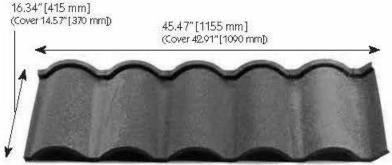


Romana

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_v = min. 50 ksi; Shall conform with FBC Section

1507.4.3





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

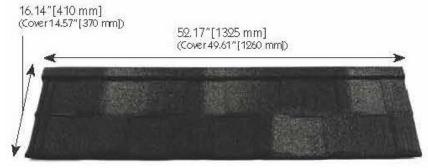


Viksen

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	pan) ove	er wood b	attens					
Slope:		3:12 or gre	eater						
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	
Underlaymen	Installed in accordance with FBC requirements. In the HVHZ, the minimum underly shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. At the and rake edges, the underlayment shall be folded down to cover the edges sheathing. After installation of the drip edge metal, a layer of underlayment sapplied to cover the drip edge.							t the eave ge of the	
Batten:		per truss/r between t	Nominal 2x2 SPF, SYP or DF fastened to rafter with one (1) #10 x 3-1/2 in. wood sper truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathing, midsteween truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spacing $\frac{14-1}{2}$ in. o.c.						
Attachment:		Bond (7 pan) panels installed over batten with five (5) 11.5 ga. x 2-1/4 in. UFO Nailscrews located through the head lap of each panel as shown on following Panels applied with 14-1/2 in. exposure and overlapped adjacently 2-1/2 in. Famust be corrosion resistant in accordance with section 1507.4.4.						ving page.	
Maximum De Pressures:	sign	-75 psf Pressure ca	alculated usin	ng 2:1 margin	of safety per	1504.9			
		Maximum Mean Roof Heights for Gable/Hip Roofs Slopes 2:12 – 12:12							
_				⁹ Basic	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	38 ft
				Zone 2 – Po	erimeter				
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	57 ft	40 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	42 ft	25 ft	NA	NA
D	60 ft	60 ft	60 ft	60 ft	35 ft	19 ft	NA	NA	NA
				Zone 3 – 0	Corner				
В	60 ft	60 ft	60 ft	60 ft	48 ft	31 ft	NA	NA	NA
С	60 ft	60 ft	42 ft	21 ft	NA	NA	NA	NA	NA
D	60 ft	40 ft	19 ft	NA	NA	NA	NA	NA	NA

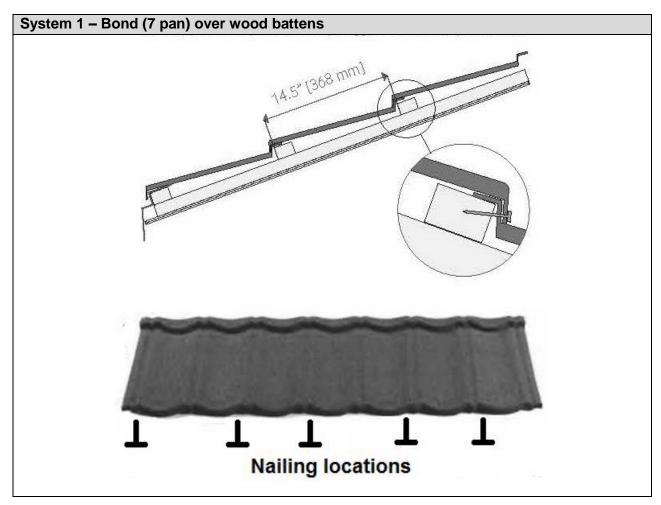
Notes:

- 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 24 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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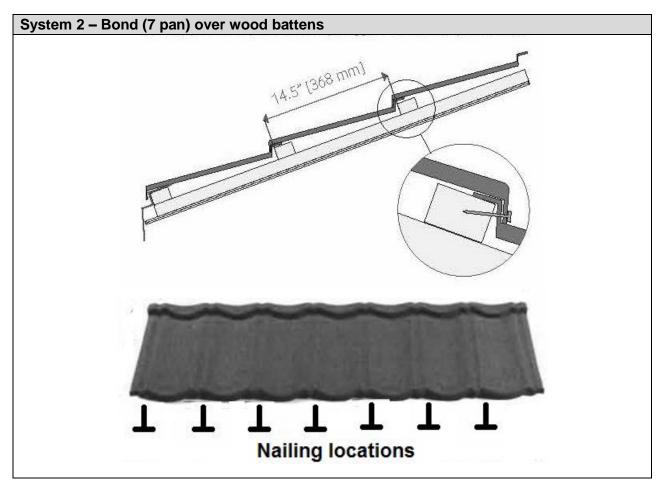
System 2 -	- Bond (7	pan) ove	er wood b	attens					
Slope:		3:12 or gre	eater						
Roof Deck:		max. 24 ir	n. span; In t	min. 15/32 ir he HVHZ, n by others in	ew construc	ction shall b	e min. 19/3	2 in. plywo	
Installed in accordance with FBC requirements. In the HVHZ, the minimum under shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. At t and rake edges, the underlayment shall be folded down to cover the edge sheathing. After installation of the drip edge metal, a layer of underlayment applied to cover the drip edge.					t the eave ge of the				
Batten:		per truss/r between to	Iominal 2x2 SPF, SYP or DF fastened to rafter with two (2) #10 x 3-1/2 in. wood screws er truss/rafter intersection and one (1) #9 x 2-1/2 in. wood screw into sheathing, mid-spar etween truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spacing is 4-1/2 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 E Nailscrews located through the head lap of each panel as shown on following Panels applied with 14-1/2 in. exposure and overlapped adjacently 2-1/2 in. Fas must be corrosion resistant in accordance with section 1507.4.4.					ving page.		
Maximum Des Pressures:	sign	-135 psf Pressure ca	alculated usin	g 2:1 margin	of safety per	1504.9			
		Maximum Mean Roof Heights for Gable/Hip Roofs Slopes 2:12 – 12:12							
_				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							
Zone 3 – 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	38 ft	23 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	52 ft	27 ft	19 ft	NA

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- 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 24 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 3 -	- Classic	, Riviera,	Shake, o	r Viksen (over woo	d battens	;			
Slope:		3:12 or gre	eater							
Roof Deck:	Roof Deck: Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing conmax. 24 in. span; In the HVHZ, new construction shall be min. 19/32 in. plywood sheathing for new and existing conmax. 24 in. span; In the HVHZ, new construction shall be min. 19/32 in. plywood sheathing for new and existing conmax. 24 in. span; Designed by others in accordance with FBC requirements.									
Underlayment: Installed in accordance with FBC requirements. In the HVHZ, the minimum shall be ASTM D 226, Type II installed as described in RAS 115 Section and rake edges, the underlayment shall be folded down to cover the sheathing. After installation of the drip edge metal, a layer of underlay applied to cover the drip edge.							ection 4. Aver the ed	t the eave ge of the		
Batten:		per truss/r between t	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, mixetween truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spa $4-1/2$ in. o.c.							
Attachment:	Classic, Riviera, Shake or Viksen panels installed over batten with five (5) 11.5 gain. UFO Ballistic Nailscrews located through the head lap of each panel as s following page. Panels applied with 14-1/2 in. exposure and overlapped adjacent. Fasteners must be corrosion resistant in accordance with section 1507.4.4.						shown on			
Maximum De Pressures:	sign	-86.25 psf Pressure ca		ng 2:1 margin	of safety per	1504.9				
		Maximum Mean Roof Heights for Gable/Hip Roofs Slopes 2:12 – 12:12								
_				9Basic	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 – 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	48 ft	28 ft	19 ft	
D	60 ft	60 ft	60 ft 60 ft 60 ft 60 ft 38 ft 20 ft NA NA							
Zone 3 – Corner										
В	60 ft	60 ft	60 ft	60 ft	60 ft	52 ft	35 ft	NA	NA	
С	60 ft	60 ft	60 ft	42 ft	22 ft	NA	NA	NA	NA	
D	60 ft	60 ft	38 ft	19 ft	NA	NA	NA	NA	NA	

- 1) Exposure category for the structure location shall be as defined in the Florida Building Code
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- 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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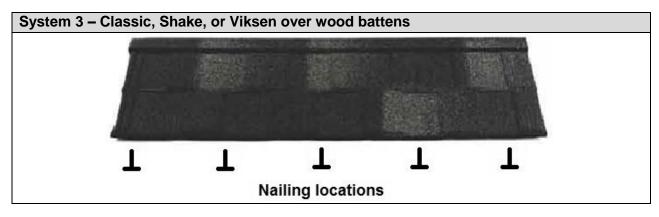
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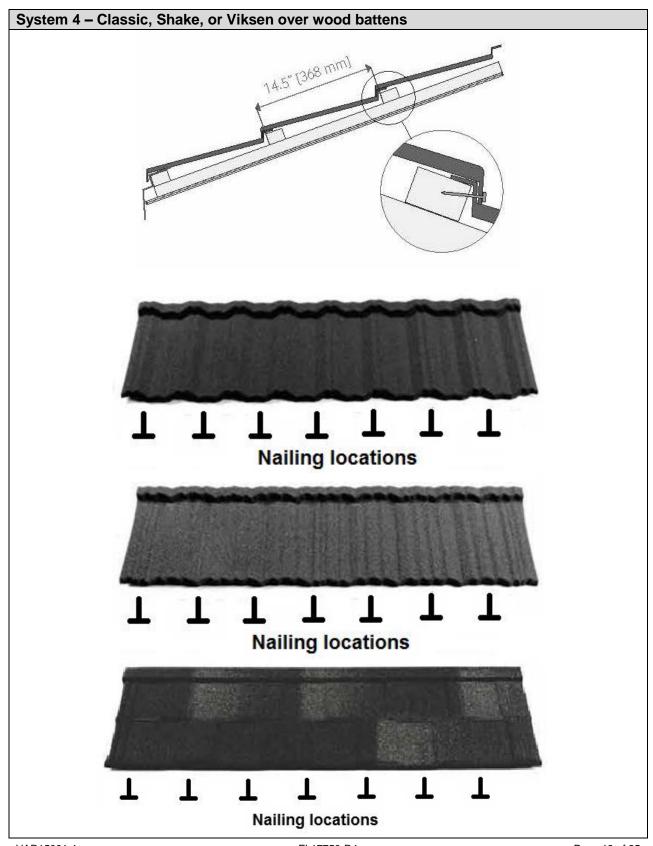
System 4	- Classic	, Shake, d	or Viksen	over wo	od batten	s				
Slope:		3:12 or gre	eater							
Roof Deck:		max. 24 ir	n. span; In t	min. 15/32 in the HVHZ, nothers in	ew constru	ction shall b	e min. 19/3	2 in. plywoo		
Installed in accordance with FBC requirements. In the HVHZ, the minimum shall be ASTM D 226, Type II installed as described in RAS 115 Section and rake edges, the underlayment shall be folded down to cover the sheathing. After installation of the drip edge metal, a layer of underlayment applied to cover the drip edge.							ection 4. A	t the eave ge of the		
Batten:		per truss/r between t	Nominal 2x2 SPF, SYP or DF fastened to rafter with two (2) $\#10 \times 3-1/2$ in. wood per truss/rafter intersection and one (1) $\#9 \times 2-1/2$ in. wood screw into sheathing, mixetween truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spate-1/2 in. o.c.							
Attachment:		Classic, Shake or Viksen panels installed over batten with seven (7) 11.5 UFO Ballistic Nailscrews located through the head lap of each panel following page. Panels applied with 14-1/2 in. exposure and overlapped a in. Fasteners must be corrosion resistant in accordance with section 1507.4							shown on	
Maximum De Pressures:	sign	-112.5 psi Pressure ca		ng 2:1 margin	of safety per	1504.9				
		Maximum Mean Roof Heights for Gable/Hip Roofs Slopes 2:12 – 12:12								
_				9Basic	Wind Speed	d (mph)				
Exposure	120	130	140	150	160	170	180	190	200	
	l	· ·		Zone 1 –	Field	l	l.			
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 – P	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 48 ft 27 ft							
Zone 3 – Corner										
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	42 ft	
С	60 ft	60 ft	60 ft	60 ft	60 ft	46 ft	26 ft	19 ft	NA	
D	60 ft	60 ft	60 ft	60 ft	38 ft	19 ft	NA	NA	NA	

- 1) Exposure category for the structure location shall be as defined in the Florida Building Code
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- 8) See page 24 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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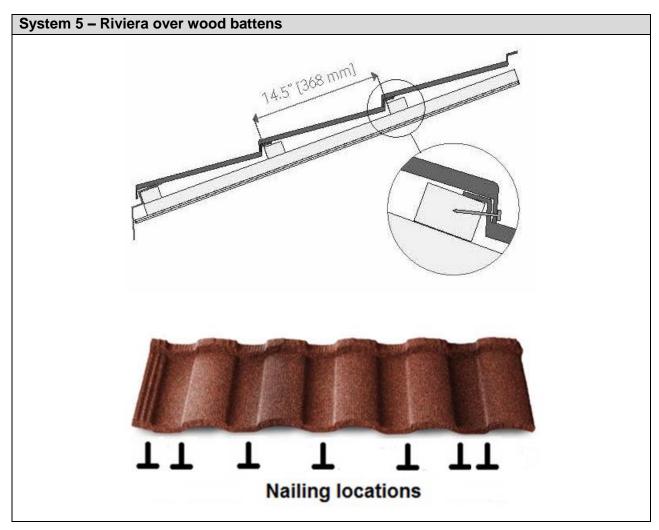
System 5	- Riviera	over woo	d batten	S						
Slope:		3:12 or gre	eater							
Roof Deck:		Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction shall be min. 19/32 in. plywood 24 in. span; Designed by others in accordance with FBC requirements.								
Installed in accordance with FBC requirements. In the HVHZ, the minimum un shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. A and rake edges, the underlayment shall be folded down to cover the edsheathing. After installation of the drip edge metal, a layer of underlayment applied to cover the drip edge.							ection 4. Aver the ed	t the eave		
Batten:		per truss/r between t	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, midbetween truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten space 14-1/2 in. o.c.							
Attachment:		Riviera panels installed over batten with seven (7) 11.5 ga. x 2-1/4 in. UFC Nailscrews located through the head lap of each panel as shown on following Panels applied with 14-1/2 in. exposure and overlapped adjacently 2-1/2 in. If must be corrosion resistant in accordance with section 1507.4.4.							ving page.	
Maximum De Pressures:	sign	-135 psf Pressure ca	alculated usin	ng 2:1 margin	of safety per	1504.9				
		Maxi		Roof Heig Slopes 2:12		le/Hip Roof	is			
_				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 – P	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 – 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	38 ft	23 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	52 ft	27 ft	19 ft	NA	

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- 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 24 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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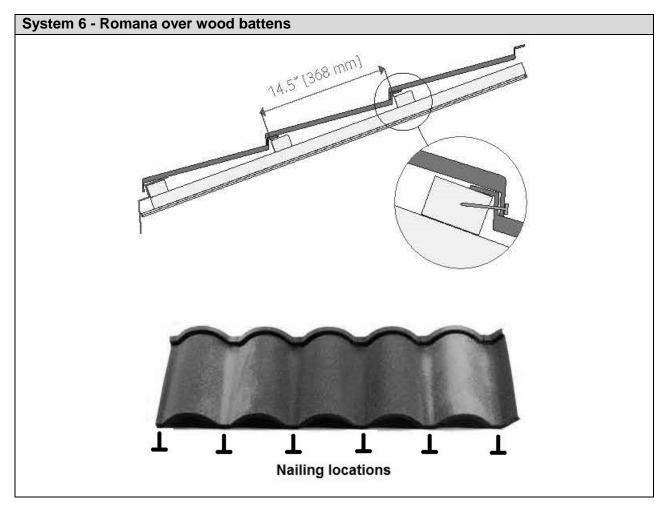
System 6 -	Romana	over wo	od batter	ıs								
Slope:		3:12 or gre	3:12 or greater									
Roof Deck:	k: Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction shall be min. 19/32 in. plywood 24 in. span; Designed by others in accordance with FBC requirements.											
Installed in accordance with FBC requirements. In the HVHZ, the minimum us shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. and rake edges, the underlayment shall be folded down to cover the establishment. After installation of the drip edge metal, a layer of underlayment applied to cover the drip edge.							ection 4. A ver the ed	t the eave ge of the				
Batten:		per truss/r between to	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, mic between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten space 14-1/2 in. o.c.									
Attachment:	Romana panels installed over batten with six (6) 11.5 ga. x 2-1/4 in. UFC Nailscrews located through the head lap of each panel as shown on following Panels applied with 14-1/2 in. exposure and overlapped adjacently 3-1/8 in. If must be corrosion resistant in accordance with section 1507.4.4.						ing page.					
Maximum Des Pressures:	sign	-105 psf Pressure ca	alculated usin	ng 2:1 margin	of safety per	1504.9						
		Maximum Mean Roof Heights for Gable/Hip Roofs Slopes 2:12 – 12:12										
_				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 – 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	44 ft			
D	60 ft	60 ft 60 ft 60 ft 60 ft 60 ft 33 ft 19 f										
Zone 3 – Corner												
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	48 ft	33 ft			
С	60 ft	60 ft	60 ft	60 ft	60 ft	33 ft	19 ft	NA	NA			
D	60 ft	60 ft	60 ft	52 ft	26 ft	NA	NA	NA	NA			

- 1) Exposure category for the structure location shall be as defined in the Florida Building Code
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- 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 24 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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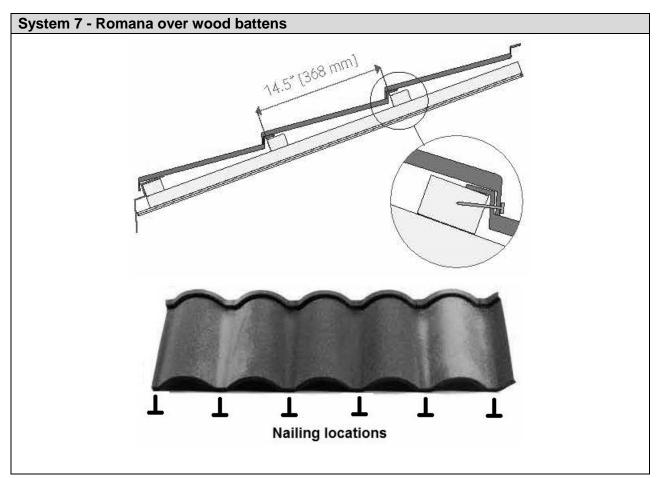
System 7	Romana	a over wo	od batter	าร						
Slope:		3:12 or gre	eater							
Roof Deck:		Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction shall be min. 19/32 in. plywood 24 in. span; Designed by others in accordance with FBC requirements.								
Installed in accordance with FBC requirements. In the HVHZ, the minimum us shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. Underlayment: and rake edges, the underlayment shall be folded down to cover the establishment. After installation of the drip edge metal, a layer of underlayment applied to cover the drip edge.							ection 4. A	t the eave ge of the		
Batten:		per truss/r between t	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, m between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spatial-1/2 in. o.c.							
Attachment:	Romana panels installed over batten with six (6) 11.5 ga. x 2-1/4 in. UF Nailscrews located through the head lap of each panel as shown on follow Panels applied with 14-1/2 in. exposure and overlapped adjacently 3-1/8 in. must be corrosion resistant in accordance with section 1507.4.4.							ving page.		
Maximum De Pressures:	sign	-172.5 psf Pressure ca		ng 2:1 margin	of safety per	1504.9				
		Maxi		Roof Heig Slopes 2:12		le/Hip Roof	is			
_				9Basic	Wind Speed	d (mph)				
Exposure	120	130	140	150	160	170	180	190	200	
		· ·	l	Zone 1 –	Field	l .	l.			
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 – P	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								
				Zone 3 –	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	60 ft	60 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	33 ft	

- 1) Exposure category for the structure location shall be as defined in the Florida Building Code
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- 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 24 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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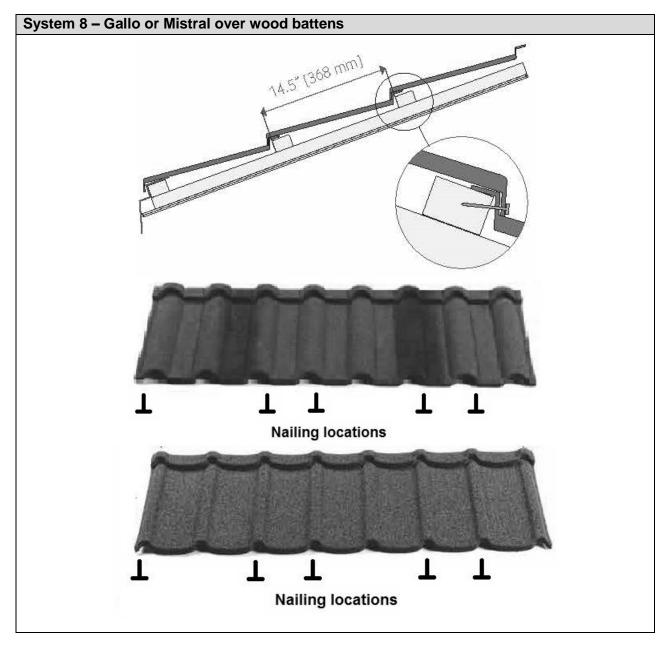
System 8	- Gallo o	r Mistral o	over woo	d battens						
Slope:		3:12 or gre	eater							
Roof Deck:		Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction max. 24 in. span; In the HVHZ, new construction shall be min. 19/32 in. plywood a 24 in. span; Designed by others in accordance with FBC requirements.								
Installed in accordance with FBC requirements. In the HVHZ, the minimum und shall be ASTM D 226, Type II installed as described in RAS 115 Section 4. At and rake edges, the underlayment shall be folded down to cover the edges sheathing. After installation of the drip edge metal, a layer of underlayment applied to cover the drip edge.							t the eave			
Batten:		per truss/r between t	Nominal 2x2 SPF, SYP or DF fastened to rafter with one (1) $\#10 \times 3-1/2$ in. wood per truss/rafter intersection and one (1) $\#9 \times 2-1/2$ in. wood screw into sheathing, mi between truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spa 14-1/2 in. o.c.							
Attachment:		Gallo or Mistral panels installed over batten with five (5) 11.5 ga. x 2-1/4 in. UFO Nailscrews located through the head lap of each panel as shown on followin Panels applied with 14-1/2 in. exposure and overlapped adjacently 3-1/8 in. Figure 15. The must be corrosion resistant in accordance with section 1507.4.4.							ving page.	
Maximum De Pressures:	sign	-86.25 psf Pressure ca		ng 2:1 margin	of safety per	1504.9				
		Maxi		Roof Heig Slopes 2:12		le/Hip Roo	is			
_				9Basic	Wind Speed	d (mph)				
Exposure	120	130	140	150	160	170	180	190	200	
	l.	· ·	l	Zone 1 –	Field	l	l.			
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 – P	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	48 ft	28 ft	19 ft	
D	60 ft	60 ft								
Zone 3 – Corner										
В	60 ft	60 ft	60 ft	60 ft	60 ft	52 ft	35 ft	NA	NA	
С	60 ft	60 ft	60 ft	42 ft	22 ft	NA	NA	NA	NA	
D	60 ft	60 ft	38 ft	19 ft	NA	NA	NA	NA	NA	

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- 7) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional
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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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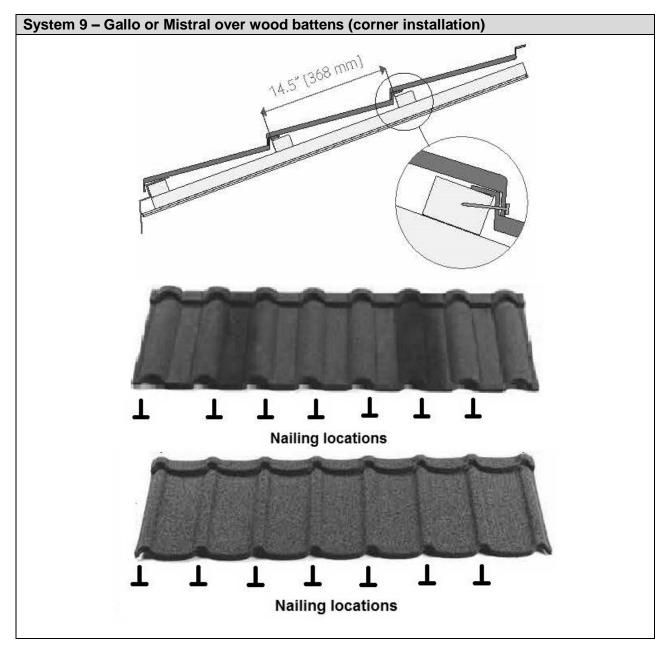
System 9 -	- Gallo o	r Mistral o	over woo	d battens							
Slope:		3:12 or gre	:12 or greater								
Roof Deck:		max. 24 ir	n. span; In t	min. 15/32 ir he HVHZ, n by others ir	ew constru	ction shall b	e min. 19/3	2 in. plywo			
Installed in accordance with FBC requirements. In the HVF shall be ASTM D 226, Type II installed as described in RA and rake edges, the underlayment shall be folded dow sheathing. After installation of the drip edge metal, a la applied to cover the drip edge.						RAS 115 Solown to co	ection 4. A	t the eave ge of the			
Batten:		per truss/r between t	lominal 2x2 SPF, SYP or DF fastened to rafter with two (2) #10 x $3-1/2$ in. wood ser truss/rafter intersection and one (1) #9 x $2-1/2$ in. wood screw into sheathing, mixed etween truss/rafter intersections (max. spacing 24 in. o.c.). Maximum batten spar4-1/2 in. o.c.								
Attachment:	Gallo or Mistral panels installed over batten with seven (7) 11.5 ga. x 2-1/4 Ballistic Nailscrews located through the head lap of each panel as shown on f page. Panels applied with 14-1/2 in. exposure and overlapped adjacently 3 Fasteners must be corrosion resistant in accordance with section 1507.4.4.						n following				
Maximum De Pressures:	sign	-142.5 psi Pressure ca		g 2:1 margin	of safety per	1504.9					
		Maxi	Maximum Mean Roof Heights for Gable/Hip Roofs Slopes 2:12 – 12:12								
_				⁹ Basic '	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	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								
Zone 3 – 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	48 ft	30 ft		
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	38 ft	20 ft	NA		

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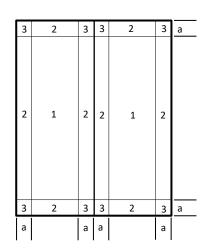
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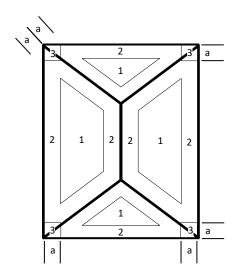




Gable



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.

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 1511 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, 6th Edition (2017) 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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