

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

### **EVALUATION REPORT**

# FLORIDA BUILDING CODE, 8<sup>TH</sup> EDITION (2023)

Manufacturer:	dba TILC 915 S Gr Grand Pi 916-838-	OOF GROUP USA, INC. COR NORTH AMERICA reat Southwest Parkway rairie, TX 75051 -1940 orroofingusa.com	Issued October 18, 2023				
Manufacturing:	Auckland	d, New Zealand					
Quality Assurance	e: UL LLC (	UL LLC (QUA9625)					
SCOPE							
Category: Subcategory: Code Edition:	Roofing Metal Roofing Florida Building Co	ode, 8 <sup>th</sup> Edition (2023) including H	igh-Velocity Hurricane Zones (HVHZ)				

#### REFERENCES

**Properties:** 

Code Sections:

Entity	Report No.	Standard	Year
PRI Construction Materials Technologies (TST5878)	TLRC-002-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	TLRC-005-02-01	TAS 100	2023
PRI Construction Materials Technologies (TST5878)	TLRC-007-02-01	ASTM G 155	2013
PRI Construction Materials Technologies (TST5878)	TLRC-008-02-01	ASTM B 117	2016
PRI Construction Materials Technologies (TST5878)	TLRC-009-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	TLRC-010-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	2042T0003	TAS 125	2003
UL LLC (TST9628)	SR 2909286.748415	UL 790	2004

1504.3.1, 1504.3.2, 1518.9, 1523.6.5.2.4

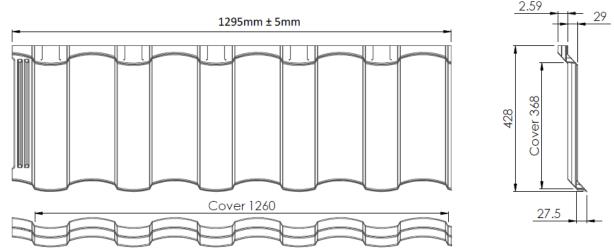
Wind Resistance, Physical Properties



### **PRODUCT DESCRIPTION**

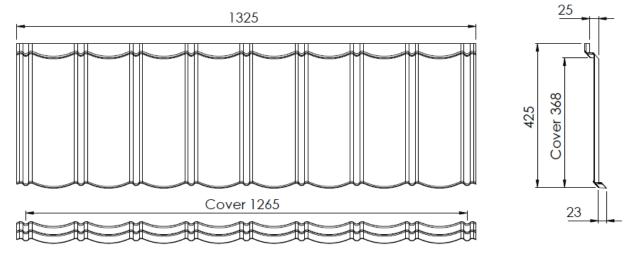
### Antica

Description:Preformed, fastened, stoned-coated steel panels; Coverage of 368mm x 1260mm.Material:Min. 26 ga. ASTM A792 AZ50; Fy = min. 41 ksi; Shall conform with FBC Section 1507.4.3



### <u>Bond</u>

Description: Material: Preformed, fastened, stoned-coated steel panels; Coverage of 368mm x 1265mm. Min. 26 ga. ASTM A792 AZ50;  $F_y = min. 41 \text{ ksi}$ ; Shall conform with FBC Section 1507.4.3



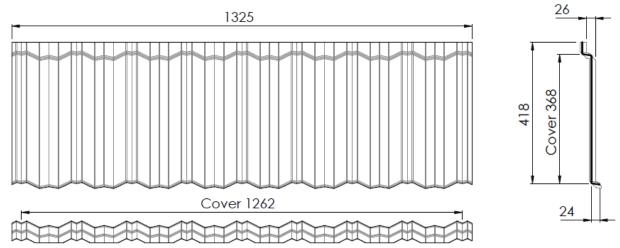
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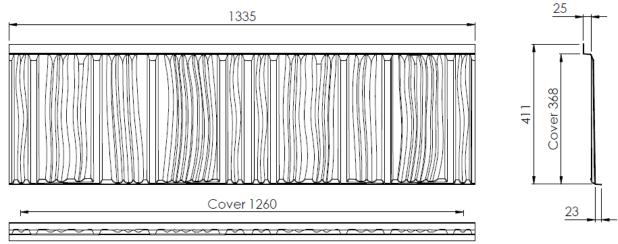
# **Classic**

Description: Material: Preformed, fastened, stoned-coated steel panels; Coverage of 368mm x 1262mm. Min. 26 ga. ASTM A792 AZ50;  $F_y = min. 41 \text{ ksi}$ ; Shall conform with FBC Section 1507.4.3



# **Craftsman Shake**

Description: Material: Preformed, fastened, stoned-coated steel panels; Coverage of 368mm x 1260mm. Min. 26 ga. ASTM A792 AZ50;  $F_y = min. 41 \text{ ksi}$ ; Shall conform with FBC Section 1507.4.3



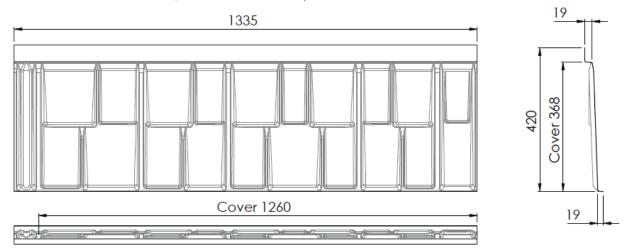
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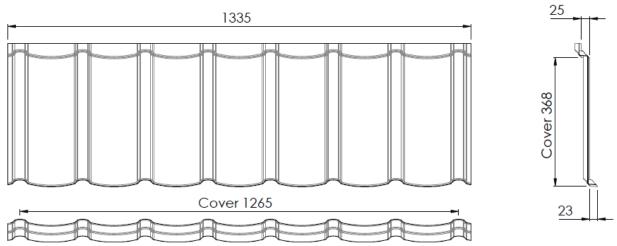
# **Royal**

Description: Material: Preformed, fastened, stoned-coated steel panels; Coverage of 368mm x 1260mm. Min. 26 ga. ASTM A792 AZ50;  $F_y = min. 41 \text{ ksi}$ ; Shall conform with FBC Section 1507.4.3



# <u>Tudor</u>

Description:Preformed, fastened, stoned-coated steel panels; Coverage of 368mm x 1265mm.Material:Min. 26 ga. ASTM A792 AZ50; Fy = min. 41 ksi; Shall conform with FBC Section 1507.4.3



TRS18001.3b

FL27421-R3



### APPROVED ASSEMBLIES

System 1 - Antica, Bo		sic, Crafts	sman Sha	ake, Roya	l or Tudo	r (over b	attens)		
Roof Deck:		Solid or clo max. 24 in	osely fitted i n. span; In t	min. 15/32 ir he HVHZ, n by others ir	n. plywood s ew construe	heathing fo	r new and e be min. 19/3	2 in. plywoo	
Underlayment: Installed in accordance with FBC requirements. In the HVHZ, shall be ASTM D 226, Type II installed in accordance with S with nails and tin caps per 1517.5 or any approved underlaym the HVHZ, a full sheet of <i>approved</i> ASTM D 1970 self-adher installed under the valley metal, and 18 in. wide sections shall rake edges.					with Sectior erlayment for f-adhering u	ns 1518.2 a r use in the inderlaymer	nd 1518.4 HVHZ. In nt shall be		
Nominal 2x2 SPF, SYP or DF fastened over underlayment perpendicular to the roof under each headlap with one (1) #9 x 3.25 in. torx, bugle head screw spaced mBatten:in. o.c. into each rafter/truss. Maximum batten spacing is 14.5 in. o.c. Fasteners s corrosion resistant in accordance with sections 1507.4.4 and 1506.6. See Appendi fastening detail.					d max. 24 rs shall be				
Attachment:		through th panel end through th	e headlap and 17 in. e deck a mi	<b>2.5 in. rin</b> of the preco o.c. thereaf n. 3/8 in. an See Appen	eding cours ter. Faster d shall be co	e and into hers shall b prrosion res	the batten; e of sufficie istant in acc	beginning nt length to	1 in. from penetrate
Maximum De Pressures:	sign	-71.25 psf Pressure ca		g 2:1 margin	of safety per	1504.9 and 1	523.4.		
		•		<b>num Mean</b> Slopes 3:12		its			
				Basic V	Vind Speed	(mph)			
Exposure	120	130	140	150	160	170	180	190	200
			Zon	e 1 for Gabl		-			
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	46 ft	30 ft	20 ft
C	60 ft	60 ft	60 ft	55 ft	29 ft	16 ft	NA	NA	NA
D	60 ft	60 ft	50 ft	22 ft	NA	NA	NA	NA	NA
		Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	ofs		
В	60 ft	60 ft	60 ft	60 ft	39 ft	24 ft	16 ft	NA	NA
С	60 ft	57 ft	27 ft	NA	NA	NA	NA	NA	NA
D	59 ft	23 ft	NA	NA	NA	NA	NA	NA	NA
			Z	one 3 for Ga	ble Roofs				
В	60 ft	60 ft	38 ft	22 ft	NA	NA	NA	NA	NA
С	33 ft	15 ft	NA	NA	NA	NA	NA	NA	NA
D	NA	NA	NA	NA	NA	NA	NA	NA	NA
Notes: 1) E on an effective assessment 4) with mean roof dimensions and Vult√0.6 per 16	wind area of Applicable f heights of g locales of Z	for Enclosed I greater than 6	ss 3) Topog Buildings with 60 ft shall be	raphic factor nout overhang evaluated by	s such as es (s 5) NA = " a licensed o	carpments c Not Allowed" design profes	or hills are no 6) Kd = 0.85 ssional 9) See	ot included in 5 7) Ke = 1.0 e page 13 fo	the above 8) Projects r details for

TRS18001.3b

FL27421-R3



Roof Deck:		max. 24 in	. span; In tl	ne HVHZ, n	ew construc	ction shall b	r new and e e min. 19/3 requirement	2 in. plywoo		
Underlaymen	::	shall be A with nails a the HVHZ	STM D 226 and tin caps , a full shee nder the val	6, Type II in 5 per 1517.5 et of <i>appro</i>	stalled in a or any app /ed ASTM [	ccordance v roved unde D 1970 seli	IVHZ, the m with Section rlayment for f-adhering u shall be ins	s 1518.2 a use in the nderlaymer	nd 1518.4 HVHZ. In it shall be	
Nominal 2x2 SPF, SYP or DF fastened over underlayment perpen- under each headlap with one (1) #9 x 3.25 in. torx, bugle head in. o.c. into each rafter/truss. Maximum batten spacing is 14.5 in. corrosion resistant in accordance with sections 1507.4.4 and 1506 fastening detail.					<b>gle head s</b> o s 14.5 in. o.	<b>crew</b> space c. Fastene	d max. 24 rs shall be			
Attachment:		Seven (7) 0.131 in. x 2.5 in. ring shank nails per panel secured into the panel nose through the headlap of the preceding course and into the batten; beginning 1 in. from panel end and 8.5 in. o.c. thereafter. Fasteners shall be of sufficient length to penetrate through the deck a min. 3/8 in. and shall be corrosion resistant in accordance with sections 1507.4.4 and 1506.6. See Appendix A for fastening detail.								
Maximum Des Pressures:	sign	<b>-135 psf</b> Pressure calculated using 2:1 margin of safety per 1504.9 and 1523.4.								
				<b>num Mean</b> Slopes 3:12	Roof Heigh - 12:12	ts				
<b>F</b>		Basic Wind Speed (mph)								
Exposure	120	130	140	150	160	170	180	190	200	
			Zon	e 1 for Gabl	e/Hip Roofs					
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	59 ft	32 ft	
		Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	ofs			
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	54 ft	32 ft	19 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	42 ft	22 ft	NA	NA	
			Zo	one 3 for Ga	ble Roofs					
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	42 ft	29 ft	
С	60 ft	60 ft	60 ft	60 ft	45 ft	25 ft	NA	NA	NA	
D	60 ft	60 ft	60 ft	37 ft	18 ft	NA	NA	NA	NA	
Notes: 1) E: on an effective assessment 4) with mean roof	wind area	for Enclosed E	s 3) Topog Buildings with	raphic factor	s such as es js 5) NA = "I	carpments on Not Allowed	r hills are no 6) Kd = 0.85	t included in 7) Ke = 1.0	the above 8) Projects	

TRS18001.3b



System 3 -	- Antica (	over batt	ens)						
Roof Deck:		plywood s new const	losely fitted heathing fo ruction shal nce with FB	r new and e I be min. 19	existing con /32 in. plyw	struction at	max. 24 in	. span; In t	he HVHZ,
Underlayment	Installed in accordance with FBC requirements. In the HVHZ, a full sheet of appro- ment: ASTM D 1970 self-adhering underlayment shall be installed under the valley metal, and in. wide sections shall be installed at the eave and rake edges.								
Batten:	Nominal 2x2, No. 2 SYP fastened over underlayment perpendicular to the root under each headlap with <b>one (1) #10 x 3.5 in. wood screw</b> spaced max. 24 in. each rafter/truss. Maximum batten spacing is 14.5 in. o.c. Fasteners shall be cresistant in accordance with sections 1507.4.4 and 1506.6.					n. o.c. into			
Attachment:Four (4) #10-14 x min. 2.5 in. HWH Wood-X screws with HiLo threads per parametersAttachment:Four (4) #10-14 x min. 2.5 in. HWH Wood-X screws with HiLo threads per parametersAttachment:secured into the panel nose through the headlap of the preceding course and into batten; beginning 1 in. from panel end and continuing in a 9.5 in. – 14 in. – 14 in. pattersIn and shall be corrosion resistant in accordance with sections 1507.4.4 and 1506.6.Appendix A for fastening detail.						d into the in. pattern a min. 3/8			
Maximum Design Pressures:-89.75 psfPressures:Pressure calculated using 2:1 margin of safety per 1504.9 and 1523.4.									
				num Mean	•	its			
				Slopes 3:12					
Exposure		Basic Wind Speed (mph)							
Exposure	120	130	140	150	160	170	180	190	200
			Zon	e 1 for Gabl	e/Hip Roofs	;			
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	49 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	50 ft	28 ft	16 ft	NA
D	60 ft	60 ft	60 ft	60 ft	40 ft	20 ft	NA	NA	NA
		Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roc	ofs		
В	60 ft	60 ft	60 ft	60 ft	60 ft	58 ft	38 ft	25 ft	17 ft
С	60 ft	60 ft	60 ft	43 ft	23 ft	NA	NA	NA	NA
D	60 ft	60 ft	37 ft	17 ft	NA	NA	NA	NA	NA
			Zo	one 3 for Ga	ble Roofs				
В	60 ft	60 ft	60 ft	54 ft	33 ft	21 ft	NA	NA	NA
С	60 ft	46 ft	22 ft	NA	NA	NA	NA	NA	NA
D	46 ft	18 ft	NA	NA	NA	NA	NA	NA	NA
Notes: 1) E: on an effective assessment 4) mean roof heig dimensions and V <sub>ult</sub> √0.6 per 160	wind area of Applicable for ghts of great b locales of 2	or Enclosed B ter than 60 ft	ss 3) Topog uildings witho shall be ev	raphic factors out overhangs aluated by a	s such as es s 5) NA = "No licensed de	carpments o ot Allowed" 6) sign professi	r hills are no $K_d = 0.85 7$ ional 9) See	t included in $K_e = 1.0 8$ ) P page 13 for	the above rojects with details for

TRS18001.3b



System 4 -	- Antica (	over batt	ens)						
Roof Deck:		plywood s new const	heathing fo ruction shal	l min. 15/32 r new and e l be min. 19 SC requireme	existing con /32 in. plyw	struction at	max. 24 in	. span; In t	he HVHZ,
Underlayment: Installed in accordance with FBC requirements. In the HVHZ, a full sheet of ASTM D 1970 self-adhering underlayment shall be installed under the valley met in. wide sections shall be installed at the eave and rake edges.									
Batten: Nominal 2x2, No. 2 SYP fastened over underlayn under each headlap with two (2) #10 x 3.5 in. wood each rafter/truss. Maximum batten spacing is 14.5 resistant in accordance with sections 1507.4.4 and 1					<b>n. wood scr</b> is 14.5 in. c	ews space	d max. 24 ir	n. o.c. into	
Attachment: Ten (10) #10-14 x min. 2.5 in. HWH Wood-X screws with HiLo threads p secured into the panel nose through the headlap of the preceding course and batten; beginning 1 in. from panel end and continuing in a 4.5 in. – 5in. repeating thereafter. Fasteners shall be of sufficient length to penetrate through the deck a in. and shall be corrosion resistant in accordance with sections 1507.4.4 and 1500 Appendix A for fastening detail.					d into the ng pattern a min. 3/8				
Maximum Des Pressures:	sign	-168.5 psf Pressure ca		g 2:1 margin	of safety per	1504.9 and 1	523.4.		
				<b>num Mean</b> Slopes 3:12		its			
<b>F</b>		Basic Wind Speed (mph)							
Exposure	120	130	140	150	160	170	180	190	200
			Zon	e 1 for Gabl	e/Hip Roofs	5			
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 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	fs		
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	57 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	42 ft	23 ft
		1		one 3 for Ga	ble Roofs				
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	42 ft	25 ft	15 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	32 ft	16 ft	NA	NA
on an effective assessment 4) mean roof heig	Notes: 1) Exposure category for the structure location shall be as defined in the Florida Building Code 2) Limitations are based on an effective wind area of $10$ ft <sup>2</sup> 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) $K_e$ = 1.0 8) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 9) See page 13 for details for dimensions and locales of Zone 1, 2, and 3 10) $V_{ult}$ is shown in the tables above. Design wind loads are calculated using $V_{asd}$ =								



System 5 -	- Craftsm	nan Shake	e or Roya	l Tile (ove	er battens	s)			
Roof Deck:		plywood s new const	heathing fo ruction shal	min. 15/32 r new and e l be min. 19 C requireme	existing con /32 in. plyw	struction at	max. 24 in	. span; In t	he HVHZ,
Underlayment:Installed in accordance with FBC requirements. In the HVHZ, a full ASTM D 1970 self-adhering underlayment shall be installed under the in. wide sections shall be installed at the eave and rake edges.									
Batten: Nominal 2x2, No. 2 SYP fastened over underlayment perpendicular under each headlap with <b>one (1) #10 x 3.5 in. wood screw</b> spaced m each rafter/truss. Maximum batten spacing is 14.5 in. o.c. Fasteners resistant in accordance with sections 1507.4.4 and 1506.6.					d max. 24 ir	n. o.c. into			
Attachment: Four (4) #10-14 x min. 2 in. HWH Wood-X screws with HiLo threads per panel security to the panel nose through the headlap of the preceding course and into the batt beginning 1 in. from panel end and continuing in a 12 in. o.c. pattern thereafter. Faster shall be of sufficient length to penetrate through the deck a min. 3/8 in. and shall corrosion resistant in accordance with sections 1507.4.4 and 1506.6. See Appendix A fastening detail.						he batten; Fasteners d shall be			
Maximum Des Pressures:	sign	-89.75 psf Pressure ca		g 2:1 margin	of safety per	1504.9 and 1	523.4.		
				<b>num Mean</b> Slopes 3:12	-	its			
<b>F</b>				Basic V	Vind Speed	(mph)			
Exposure	120	130	140	150	160	170	180	190	200
			Zon	e 1 for Gabl	e/Hip Roofs	;			
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	49 ft
С	60 ft	60 ft	60 ft	60 ft	60 ft	50 ft	28 ft	16 ft	NA
D	60 ft	60 ft	60 ft	60 ft	40 ft	20 ft	NA	NA	NA
		Zone	2 for Gable	Roofs and Z	Zones 2 & 3	for Hip Roc	ofs		
В	60 ft	60 ft	60 ft	60 ft	60 ft	58 ft	38 ft	25 ft	17 ft
С	60 ft	60 ft	60 ft	43 ft	23 ft	NA	NA	NA	NA
D	60 ft	60 ft	37 ft	17 ft	NA	NA	NA	NA	NA
			Z	one 3 for Ga	ble Roofs				
В	60 ft	60 ft	60 ft	54 ft	33 ft	21 ft	NA	NA	NA
С	60 ft	46 ft	22 ft	NA	NA	NA	NA	NA	NA
D	46 ft	18 ft	NA	NA	NA	NA	NA	NA	NA
Notes: 1) E on an effective assessment 4) mean roof heig dimensions and Vut 0.6 per 160	wind area of Applicable for the of great locales of 2	or Enclosed B ter than 60 ft	s 3) Topog uildings witho shall be ev	raphic factors out overhangs aluated by a	s such as es 5) NA = "No licensed de	carpments o ot Allowed" 6) sign professi	r hills are no $K_d = 0.85$ 7) onal 9) See	t included in $K_e = 1.0.8$ ) P page 13 for	the above rojects with details for

V<sub>ult</sub>√0.6 per 1609.3.1.



System 6 – Craftsman Shake or Royal Tile (over battens)										
Roof Deck:		Solid or closely fitted min. 15/32 in., 32/16 span rated, 4-ply, Grade C-D, Expos plywood sheathing for new and existing construction at max. 24 in. span; In the H new construction shall be min. 19/32 in. plywood at max. 24 in. span; Designed by c in accordance with FBC requirements.							he HVHZ,	
Underlayment: Installed in accordance with FBC requirements. In the HVHZ, a full a ASTM D 1970 self-adhering underlayment shall be installed under the value in. wide sections shall be installed at the eave and rake edges.										
Batten:Nominal 2x2, No. 2 SYP fastened over underlayment perpunder each headlap with two (2) #10 x 3.5 in. wood screws each rafter/truss. Maximum batten spacing is 14.5 in. o.c. resistant in accordance with sections 1507.4.4 and 1506.6.					<b>rews</b> space .c. Fasten	d max. 24 ir	n. o.c. into			
Attachment: Eight (8) #10-14 x min. 2 in. HWH Wood-X screws with HiLo threads per secured into the panel nose through the headlap of the preceding course and in batten; beginning 1 in. from panel end and continuing in a 6 in. o.c. pattern ther Fasteners shall be of sufficient length to penetrate through the deck a min. 3/8 is shall be corrosion resistant in accordance with sections 1507.4.4 and 1506.6. Appendix A for fastening detail.					d into the thereafter. /8 in. and					
Maximum Des Pressures:	sign	<b>-168.5 psf</b> Pressure ca		g 2:1 margin	of safety per	1504.9 and 1	523.4.			
				num Mean		its				
				Slopes 3:12	– 12:12					
Exposure		Basic Wind Speed (mph)								
Expediate	120	130	140	150	160	170	180	190	200	
			Zon	e 1 for Gabl	e/Hip Roofs	5				
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	
		-	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	fs			
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	57 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	42 ft	23 ft	
			Z	one 3 for Ga	ble Roofs					
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	42 ft	25 ft	15 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	32 ft	16 ft	NA	NA	
Notes: 1) E: on an effective assessment 4) mean roof heig dimensions and V <sub>ult</sub> √0.6 per 160	wind area of Applicable for this of great l locales of 2	or Enclosed B er than 60 ft	ss 3) Topog uildings witho shall be ev	raphic factors out overhangs aluated by a	s such as es 5) NA = "No licensed de	carpments o ot Allowed" 6) sign professi	r hills are no $K_d = 0.85$ 7) onal 9) See	t included in $K_e = 1.0 8$ P page 13 for	the above rojects with details for	

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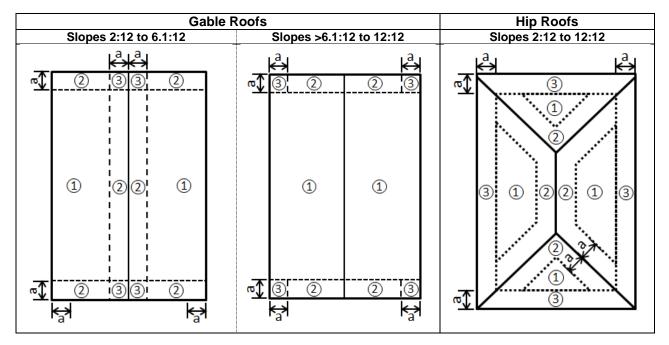


System 7 - Antica, Bo		sic, Crafts	sman Sha	ike, Roya	l or Tudo	or (direct	to deck)		
Roof Deck:		Solid or clo max. 24 in	osely fitted r . span; In tl	min. 15/32 ir he HVHZ, n	n. plywood s ew construe	sheathing fo	r new and e be min. 19/3 requirement	2 in. plywoo	
Underlaymen	t:	shall be A with nails a the HVHZ	STM D 226 and tin caps , a full shee nder the val	6, Type II in s per 1517.5 et of <i>appro</i> r	stalled in a or any app or any app or ASTM	ccordance proved unde D 1970 sel	IVHZ, the m with Section rlayment for f-adhering u shall be ins	s 1518.2 a use in the nderlaymer	nd 1518.4 HVHZ. In nt shall be
Four (4) #12-8 x min. 1.25 in. hex head screws with bonded washed into the headlap area at the factory-cut tabs and sheathing beginning end and 15 in. o.c. thereafter. Fasteners shall be of sufficient length t the deck a min. 3/8 in. and shall be corrosion resistant in accord 1507.4.4 and 1506.6. See Appendix A for fastening detail.					g 4 in. from to penetra	the panel te through			
Stitch Attachr	nent:	Four (4) #9-16 x min. 1.25 in. hex head screws with bonded washer per panel secured into the nose of the panel 1 in. from the panel end and 17 in. o.c. thereafter. Fasteners shall be corrosion resistant in accordance with sections 1507.4.4 and 1506.6. See Appendix A for fastening detail.							
Maximum Des Pressures:	sign	-63.75 psf Pressure ca		g 2:1 margin	of safety per	1504.9			
		•		<b>num Mean</b> Slopes 3:12		its			
				•	Vind Speed	(mph)			
Exposure	120	130	140	150	160	170	180	190	200
	120	100		e 1 for Gabl			100	100	200
В	60 ft	60 ft	60 ft	60 ft	60 ft	, 46 ft	30 ft	20 ft	NA
C	60 ft	60 ft	60 ft	32 ft	17 ft	NA	NA	NA	NA
D	60 ft	60 ft	26 ft	NA	NA	NA	NA	NA	NA
		Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	ofs		
В	60 ft	60 ft	60 ft	41 ft	25 ft	16 ft	NA	NA	NA
С	60 ft	33 ft	16 ft	NA	NA	NA	NA	NA	NA
D	31 ft	NA	NA	NA	NA	NA	NA	NA	NA
			Zo	one 3 for Ga	ble Roofs				
В	60 ft	44 ft	25 ft	15 ft	NA	NA	NA	NA	NA
С	19 ft	NA	NA	NA	NA	NA	NA	NA	NA
D	NA	NA	NA	NA	NA	NA	NA	NA	NA
Notes: 1) E. on an effective assessment 4) with mean roof dimensions and Vult√0.6 per 16	wind area of Applicable f heights of g locales of Z	for Enclosed I greater than 6	ss 3) Topog Buildings with 0 ft shall be	raphic factor out overhang evaluated by	s such as es gs 5) NA = " a licensed o	scarpments c Not Allowed" design profes	or hills are no 6) Kd = 0.85 ssional 9) See	t included in 7) Ke = 1.0 page 13 fo	the above 8) Projects or details for



System 8 - Antica, Bor		sic, Crafts	man Shal	ke, Royal	or Tudor	(direct to	o deck)		
Roof Deck:		max. 24 in	. span; In t	he HVHZ, n	ew construc	ction shall b	r new and e e min. 19/3 requirement	2 in. plywoo	
Underlayment: Installed in accordance with FBC requirem shall be ASTM D 226, Type II installed in with nails and tin caps per 1517.5 or any a the HVHZ, a full sheet of <i>approved</i> AST installed under the valley metal, and 18 in rake edges.					stalled in a or any app /ed ASTM	ccordance proved unde D 1970 seli	with Section rlayment for f-adhering u	is 1518.2 a use in the inderlaymer	nd 1518.4 HVHZ. In nt shall be
Seven (7) #12-8 x min. 1.25 in. hex head screws with bonded washer secured into the headlap area at the factory-cut tabs and sheathing beginning the panel end and 7.5 in. o.c. thereafter. Fasteners shall be of sufficient penetrate through the deck a min. 3/8 in. and shall be corrosion resistant in a with sections 1507.4.4 and 1506.6. See Appendix A for fastening detail.					4 in. from length to				
Stitch Attachn	nent:	Seven (7) #9-16 x min. 1.5 in. hex head screws with bonded washer per panel secured into the nose of the panel 1 in. from the panel end and 8.5 in. o.c. thereafter. Fasteners shall be corrosion resistant in accordance with sections 1507.4.4 and 1506.6. See Appendix A for fastening detail.							
Maximum Des Pressures:	sign	<b>-97.5 psf</b> Pressure ca	alculated usin	g 2:1 margin	of safety per	1504.9			
				<b>num Mean</b> Slopes 3:12	-	its			
		Basic Wind Speed (mph)							
Exposure	120	130	140	150	160	170	180	190	200
				e 1 for Gabl					
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	43 ft	25 ft	15 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	32 ft	16 ft	NA	NA
		Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roc	ofs		
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	52 ft	35 ft	23 ft
С	60 ft	60 ft	60 ft	60 ft	35 ft	19 ft	NA	NA	NA
D	60 ft	60 ft	60 ft	27 ft	NA	NA	NA	NA	NA
			Z	one 3 for Ga	able Roofs				
В	60 ft	60 ft	60 ft	60 ft	45 ft	29 ft	18 ft	NA	NA
С	60 ft	60 ft	34 ft	17 ft	NA	NA	NA	NA	NA
D	60 ft	30 ft	NA	NA	NA	NA	NA	NA	NA
Notes: 1) Es on an effective assessment 4) with mean roof dimensions and Vult√0.6 per 160	wind area of Applicable f heights of g locales of Z	or Enclosed E preater than 6	ss 3) Topog Buildings with 0 ft shall be	raphic factor out overhang evaluated by	s such as es gs 5) NA = " a licensed o	scarpments on Not Allowed" design profes	r hills are no 6) Kd = 0.85 sional 9) See	ot included in 7) Ke = 1.0 e page 13 fo	the above 8) Projects r details for





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.
- The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
- 3. The minimum roof slope shall be 3:12 or greater.
- 4. Reroofing shall be in accordance with FBC Section 1511 outside the HVHZ and FBC Section 1521 inside the HVHZ.
- 5. 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.
- 6. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

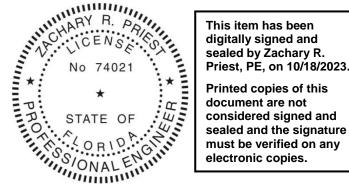
FL27421-R3

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.



### **COMPLIANCE STATEMENT**

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 8<sup>th</sup> Edition (2023) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



This item has been digitally signed and sealed by Zachary R. Priest, PE, on 10/18/2023. Printed copies of this document are not considered signed and

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

FL27421-R3

Page 14 of 14



APPENDIX A

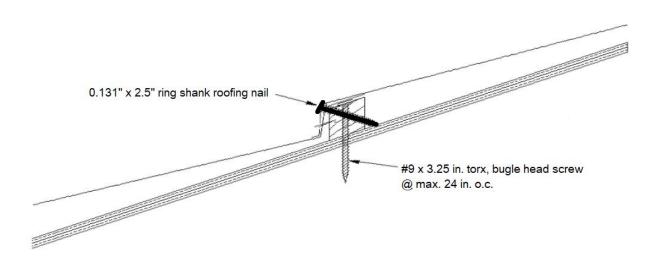


Figure 1. Over Batten Installation Detail (Systems 1 & 2)

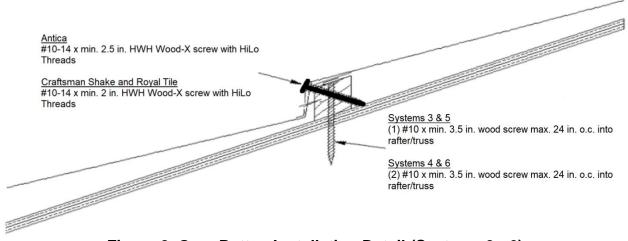


Figure 2. Over Batten Installation Detail (Systems 3 - 6)

FL27421-R3



APPENDIX A

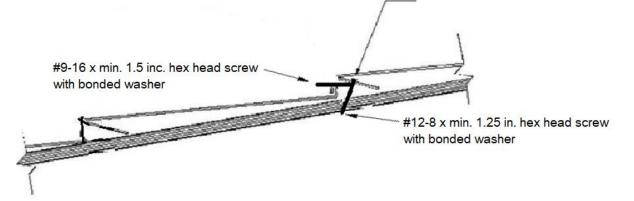


Figure 3. Direct to Deck Installation Detail (Systems 7 & 8)

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Page 2 of 2