



**EVALUATION REPORT**

**FLORIDA BUILDING CODE, 7<sup>TH</sup> EDITION (2020)**

**Manufacturer:** ELITE STEEL MANUFACTURERS OF FLORIDA LLC *Issued February 13, 2023*  
 942 Blanche Street  
 Jacksonville, FL 32204  
 (904) 374-2253  
[www.elitesteelflorida.com](http://www.elitesteelflorida.com)

**Manufacturing Locations:** Jacksonville, FL

**Quality Assurance:** PRI Construction Materials Technologies (QUA9110)

**SCOPE**

**Category:** Roofing  
**Subcategory:** Metal Roofing  
**Code Edition:** Florida Building Code, 7<sup>th</sup> Edition (2020) High-Velocity Hurricane Zones (HVHZ)  
**Code Sections:** 1518.9.1, 1523.1.1, 1523.6.5, 1523.6.5.2.4, 1523.6.5.2.4.1  
**Properties:** Wind Resistance

**REFERENCES**

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	945T0002	ASTM B 117	2016
PRI Construction Materials Technologies (TST5878)	945T0004	ASTM G 155	2013
PRI Construction Materials Technologies (TST5878)	2518T0001.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0002.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0003.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0008.1	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	2518T0009.1	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	2518T0010.1	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	2518T0012.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0013.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0015.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012

**PRODUCT DESCRIPTION**

Classic Roll Tile	<b>Profile:</b>	7/8 in. ribs; 12 in. step x 46-1/2 in.; 41-5/16 in. coverage
	<b>Description:</b>	Non-structural, preformed, through fastened roof panel
	<b>Material:</b>	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F <sub>y</sub> = min. 50 ksi); Shall conform with FBC Section 1507.4.3
Prima Tile	<b>Profile:</b>	1-1/16 in. ribs; 12 in. step x 45-1/4 in.; 39-11/16 in. coverage
	<b>Description:</b>	Non-structural, preformed, through fastened roof panel
	<b>Material:</b>	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F <sub>y</sub> = min. 50 ksi); Shall conform with FBC Section 1507.4.3

Universal Tile	<b>Profile:</b>	1-5/16 in. ribs; 12 in. step x 44-1/8 in.; 39-11/16 in. coverage
	<b>Description:</b>	Non-structural, preformed, through fastened roof panel
	<b>Material:</b>	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F <sub>y</sub> = min. 50 ksi); Shall conform with FBC Section 1507.4.3
Barrel Tile	<b>Profile:</b>	1-3/8 in. ribs; 12 in. step x 45-1/4 in.; 41-1/4 in. coverage
	<b>Description:</b>	Non-structural, preformed, through fastened roof panel
	<b>Material:</b>	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F <sub>y</sub> = min. 50 ksi); Shall conform with FBC Section 1507.4.3



Spanish Tile	<b>Profile:</b>	1-1/2 in. ribs; 12 in. step x 44-7/8 in.; 39-11/16 in. coverage
	<b>Description:</b>	Non-structural, preformed, through fastened roof panel
	<b>Material:</b>	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F <sub>y</sub> = min. 50 ksi); Shall conform with FBC Section 1507.4.3
Wave Tile	<b>Profile:</b>	1-5/16 in. ribs; 12 in. step x 46-1/2 in.; 39-11/16 in. coverage
	<b>Description:</b>	Non-structural, preformed, through fastened roof panel
	<b>Material:</b>	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F <sub>y</sub> = min. 50 ksi); Shall conform with FBC Section 1507.4.3

## LIMITATIONS

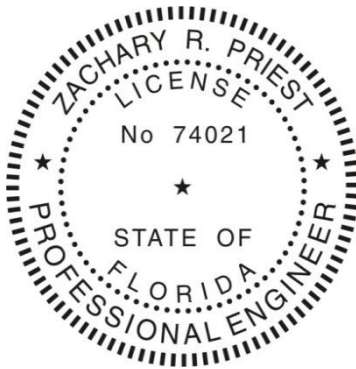
---

1. Fire classification is not within the scope of this evaluation.
2. 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. Roof slope shall be 2:12 or greater.
4. Reroofing shall be in accordance with Section 1521.
5. Installation of the evaluated products shall comply with this report, RAS 133, 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.

## COMPLIANCE STATEMENT

---

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7<sup>th</sup> Edition (2020) including the 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 2/13/2023.**

**Printed copies of this  
document are not  
considered signed and  
sealed and the signature  
must be verified on any  
electronic copies.**

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.

## APPENDICES

---

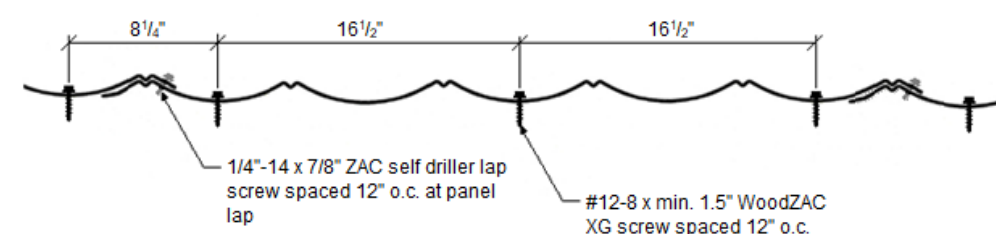
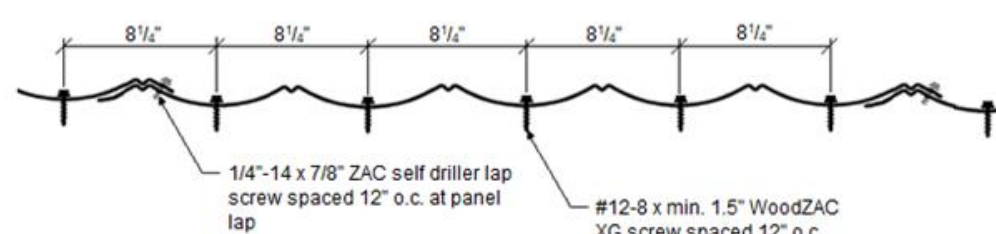
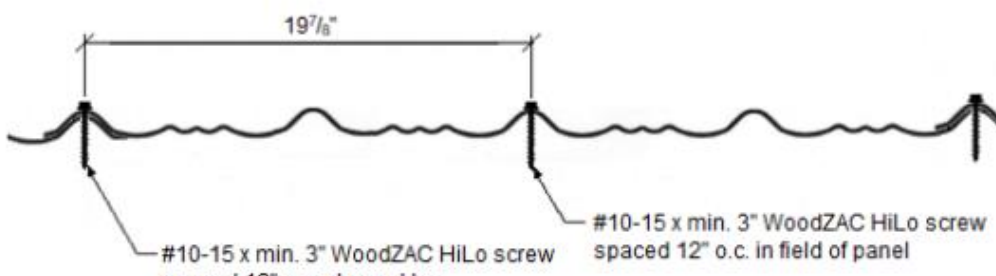
- 1) APPENDIX A – Installation (3 pages)
- 2) APPENDIX B – Approved Roof Systems (5 pages)
- 3) APPENDIX C – Design Wind Loads (3 pages)

**INSTALLATION**

Note - Refer to the [APPROVED ROOF SYSTEMS](#) section of this report for specific installation details of a selected system.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Component	Product	Installation Detail
Fasteners	#10-15 HiLo WoodZAC; Type 17 milled point; by SFS Intec	Shall penetrate through the sheathing a minimum 3/8 in. Shall be corrosion resistant in accordance with FBC section 1506.6.
	#12-8 WoodZAC XG, Sharp point, by SFS Intec	
	1/4"-14 x 7/8" ZAC self driller lap screw; by SFS Intec	Shall be corrosion resistant in accordance with FBC section 1506.6.

Fastening Details	
Nomenclature	Attachment
<b>ROLL 1</b>	 <p>1/4"-14 x 7/8" ZAC self driller lap screw spaced 12" o.c. at panel lap</p> <p>#12-8 x min. 1.5" WoodZAC XG screw spaced 12" o.c.</p>
<b>ROLL 2</b>	 <p>1/4"-14 x 7/8" ZAC self driller lap screw spaced 12" o.c. at panel lap</p> <p>#12-8 x min. 1.5" WoodZAC XG screw spaced 12" o.c.</p>
<b>PRIMA 1</b>	 <p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. at panel lap</p> <p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. in field of panel</p>





Fastening Details	
Nomenclature	Attachment
<b>PRIMA 2</b>	<p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. at panel lap</p> <p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. in field of panel</p>
<b>UNIVERSAL 1</b>	<p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. at panel lap</p> <p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. in field of panel</p>
<b>UNIVERSAL 2</b>	<p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. at panel lap</p> <p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. in field of panel</p>
<b>BARREL</b>	<p>#10-15 x min. 3" WoodZAC HiLo screw</p> <p>#10-15 x min. 3" WoodZAC HiLo screw</p>
<b>SPANISH</b>	<p>#10-15 x min. 3" WoodZAC HiLo screw</p> <p>#10-15 x min. 3" WoodZAC HiLo screw</p>



Fastening Details	
Nomenclature	Attachment
WAVE	<p>The diagram shows a cross-section of a metal roof with a wave profile. Four screws are shown, each positioned at the bottom of a wave. Dimension lines above the screws indicate a spacing of <math>7\frac{15}{16}</math> inches between each screw. Two callout lines point to the screws, with the label "#10-15 x min. 3" WoodZAC HILO screw".</p>



**APPROVED ROOF SYSTEMS**

The following notes shall be observed when using the assembly tables below.

1. Maximum Design Pressure (*MDP*) was calculated using a 2:1 margin of safety per FBC Section 1523.4.
2. Refer to [LIMITATIONS](#) and sections of this evaluation when using the table(s) below.
3. Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. Underlayment shall be installed in accordance with FBC requirements. The minimum underlayment shall be ASTM D 226, Type II installed as described in FBC Section 1518.2.1 with nails and tin caps per 1517.5.
6. Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum 19/32 in. thick APA Span-Rated plywood sheathing or wood plank at maximum 24 in. span for new construction. Existing construction shall be the minimum plywood sheathing or wood plank thickness at maximum 24 in. span as stated in the approval tables on following pages. In no case shall the attachment be less than 8d ring shank nails spaced as follows:
  - a. 6 in. o.c.
  - b. 3 in. o.c.

Roof System Numbers and Definitions	
<a href="#">CT-W-#</a>	Min. 26ga. steel Classic Roll Tile over Wood Deck (New or Existing)
<a href="#">PT-W-#</a>	Min. 26ga. steel Prima Tile over Wood Deck (New or Existing)
<a href="#">UT-W-#</a>	Min. 26ga. steel Universal Tile over Wood Deck (New or Existing)
<a href="#">BT-W-#</a>	Min. 26ga. steel Barrel Tile over Wood Deck (New or Existing)
<a href="#">ST-W-#</a>	Min. 26ga. steel Spanish Tile over Wood Deck (New or Existing)
<a href="#">WT-W-#</a>	Min. 26ga. steel Wave Tile over Wood Deck (New or Existing)

Approved Systems for Min. 26ga. steel Classic Roll Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	<i>MDP</i> (psf)
CT-W-1	Min. 15/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Classic Roll Tile	#12-8 x min. 1.5 in. WoodZAC XG screws installed across the panel width at the vertical leg adjacent to the step per <b>ROLL 1</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-67.25</b>
CT-W-2	Min. 19/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Classic Roll Tile	#12-8 x min. 1.5 in. WoodZAC XG screws installed across the panel width at the vertical leg adjacent to the step per <b>ROLL 1</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-89.75</b>
CT-W-3	Min. 15/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Classic Roll Tile	#12-8 x min. 1.5 in. WoodZAC XG screws installed across the panel width at the vertical leg adjacent to the step per <b>ROLL 2</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-138.5</b>

**APPENDIX B**

Approved Systems for Min. 26ga. steel Classic Roll Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
CT-W-4	Min. 19/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Classic Roll Tile	#12-8 x min. 1.5 in. WoodZAC XG screws installed across the panel width at the vertical leg adjacent to the step per <b>ROLL 2</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-168.5</b>

Approved Systems for Min. 26ga. steel Prima Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
PT-W-1	Min. 15/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Prima Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>PRIMA 1</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-63.5</b>
PT -W-2	Min. 19/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Prima Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>PRIMA 1</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-86</b>
PT -W-3	Min. 15/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Prima Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>PRIMA 2</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-123.5</b>
PT-W-4	Min. 19/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Prima Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>PRIMA 2</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-168.5</b>

**APPENDIX B**

Approved Systems for Min. 26ga. steel Universal Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
UT-W-1	Min. 15/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga.steel Universal Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>UNIVERSAL 1</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-63.5</b>
UT -W-2	Min. 19/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga.steel Universal Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>UNIVERSAL 1</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-86</b>
UT -W-3	Min. 15/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga.steel Universal Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>UNIVERSAL 2</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-123.5</b>
UT-W-4	Min. 19/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga.steel Universal Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>UNIVERSAL 2</b> attachment spaced 12 in. o.c. along the length of the panel	<b>-168.5</b>

Approved Systems for Min. 26ga. steel Barrel Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
BT-W-1	Min. 19/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga.steel Barrel Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>BARREL</b> attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	<b>-71</b>
BT-W-2	Min. 19/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga.steel Barrel Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>BARREL</b> attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	<b>-168.5</b>

Approved Systems for Min. 26ga. steel Spanish Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
ST-W-1	Min. 15/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Spanish Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>SPANISH</b> attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	<b>-67.25</b>
ST-W-2	Min. 19/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Spanish Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>SPANISH</b> attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	<b>-89.75</b>
ST-W-3	Min. 15/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Spanish Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>SPANISH</b> attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	<b>-138.5</b>
ST-W-4	Min. 19/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Spanish Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>SPANISH</b> attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	<b>-168.5</b>

Approved Systems for Min. 26ga. steel Wave Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
WT-W-1	Min. 15/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Wave Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>WAVE</b> attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	<b>-67.25</b>
WT-W-2	Min. 19/32 CDX plywood <a href="#">(Note 6a)</a>	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Wave Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>WAVE</b> attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	<b>-89.75</b>

**APPENDIX B**

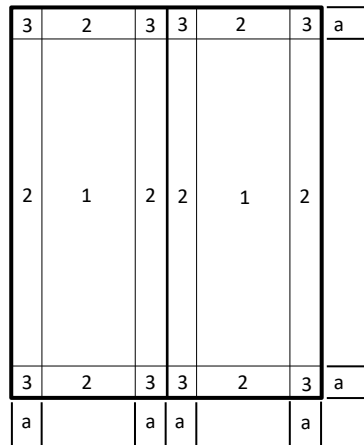
Approved Systems for Min. 26ga. steel Wave Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
WT-W-3	Min. 15/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Wave Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>WAVE</b> attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	<b>-138.5</b>
WT-W-4	Min. 19/32 CDX plywood <a href="#">(Note 6b)</a>	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Wave Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per <b>WAVE</b> attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	<b>-168.5</b>

**DESIGN WIND LOADS**

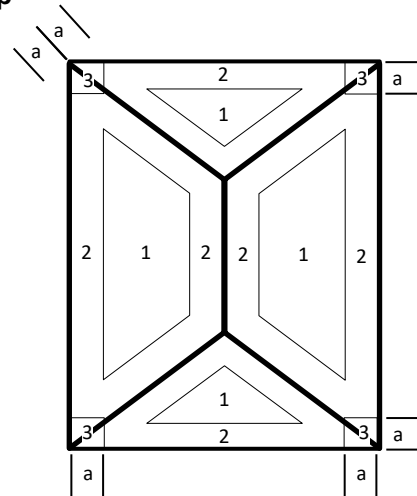
The following tables provide design wind loads for components and cladding in accordance with Section 1620 of the FBC and ASCE 7-16 under the following provisions:

1. Wind speeds for risk category I, II, III, and IV buildings shall be as defined in Section 1620 of the FBC.
2. Exposure C and D shall be as defined in section 1620 of the FBC.
3. Design wind load provided only for gable/hip roofs with roof slopes between 2:12 and 6.1:12
4. All calculations are based on an effective wind area of 10-ft<sup>2</sup> or less.
5. Topographic factors such as escarpments or hills have been excluded from the analysis
6. Overhangs have been excluded from the analysis.
7. Wind directionality factor,  $K_d = 0.85$
8. Design wind loads are calculated using  $P_{asd} = 0.6P_{ult}$ .
9. Zone 2 is inclusive of Zone 2e, Zone 2n, and Zone 2r
10. Zone 3 is inclusive of Zone 3e and Zone 3r
11. Projects with mean roof heights greater than 60-ft shall be evaluated by a licensed design professional
12. Zones 1, 2, and 3 shall be defined as shown below. 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

**Gable**



**Hip**





APPENDIX C

Gable/Hip Roofs in Exposure C in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12)								
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)					
			Risk Cat I	Risk Cat I	Risk Cat II	Risk Cat II	Risk Cat III, IV	Risk Cat III,IV
			156	165	170	175	180	186
Enclosed/ Partially Open	1	20	-62.3	-69.7	-74.0	-78.5	-83.0	-88.6
		25	-65.1	-72.8	-77.3	-81.9	-86.7	-92.6
		30	-67.9	-75.9	-80.6	-85.4	-90.4	-96.5
		40	-72.0	-80.6	-85.6	-90.7	-95.9	-102.4
		50	-75.5	-84.5	-89.7	-95.0	-100.5	-107.3
		60	-78.3	-87.6	-93.0	-98.5	-104.2	-111.3
	2	20	-90.9	-101.7	-108.0	-114.4	-121.1	-129.3
		25	-95.0	-106.3	-112.8	-119.5	-126.5	-135.0
		30	-99.0	-110.8	-117.6	-124.6	-131.8	-140.8
		40	-105.1	-117.6	-124.8	-132.2	-139.9	-149.4
		50	-110.1	-123.2	-130.8	-138.6	-146.6	-156.6
	3	20	-108.1	-120.9	-128.4	-136.0	-143.9	-153.7
		25	-112.9	-126.3	-134.1	-142.1	-150.3	-160.5
		30	-117.7	-131.7	-139.8	-148.1	-156.7	-167.3
		40	-124.9	-139.7	-148.3	-157.2	-166.3	-177.6
50		-130.9	-146.5	-155.5	-164.7	-174.3	-186.1	
Partially Enclosed	1	20	-72.9	-81.6	-86.6	-91.8	-97.1	-103.7
		25	-76.2	-85.2	-90.4	-95.8	-101.4	-108.3
		30	-79.4	-88.8	-94.3	-99.9	-105.7	-112.9
		40	-84.3	-94.3	-100.1	-106.0	-112.2	-119.8
		50	-88.3	-98.8	-104.9	-111.1	-117.6	-125.5
		60	-91.6	-102.4	-108.7	-115.2	-121.9	-130.2
	2	20	-101.5	-113.6	-120.6	-127.8	-135.2	-144.3
		25	-106.0	-118.6	-125.9	-133.4	-141.2	-150.7
		30	-110.5	-123.7	-131.3	-139.1	-147.2	-157.1
		40	-117.3	-131.2	-139.3	-147.6	-156.2	-166.8
		50	-123.0	-137.5	-146.0	-154.7	-163.7	-174.8
		60	-127.5	-142.6	-151.4	-160.4	-169.7	-181.2
	3	20	-118.7	-132.8	-140.9	-149.3	-158.0	-168.7
		25	-124.0	-138.7	-147.2	-156.0	-165.0	-176.2
		30	-129.2	-144.6	-153.5	-162.6	-172.0	-183.7
		40	-137.1	-153.4	-162.9	-172.6	-182.6	-195.0
		50	-143.7	-160.8	-170.7	-180.9	-191.4	-204.3
		60	-149.0	-166.7	-177.0	-187.5	-198.4	-211.8

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.

**APPENDIX C**

Gable/Hip Roofs in Exposure D in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12)								
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)					
			Risk Cat I	Risk Cat I	Risk Cat II	Risk Cat II	Risk Cat III, IV	Risk Cat III,IV
			156	165	170	175	180	186
Enclosed/ Partially Open	1	20	-74.8	-83.7	-88.8	-94.1	-99.6	-106.3
		25	-77.6	-86.8	-92.1	-97.6	-103.3	-110.3
		30	-80.4	-89.9	-95.4	-101.1	-107.0	-114.2
		40	-84.5	-94.5	-100.4	-106.3	-112.5	-120.1
		50	-88.0	-98.4	-104.5	-110.7	-117.1	-125.1
		60	-90.7	-101.5	-107.8	-114.2	-120.8	-129.0
	2	20	-109.1	-122.1	-129.6	-137.3	-145.3	-155.1
		25	-113.2	-126.6	-134.4	-142.4	-150.7	-160.9
		30	-117.2	-131.1	-139.2	-147.5	-156.0	-166.6
		40	-123.3	-137.9	-146.4	-155.1	-164.1	-175.2
		50	-128.3	-143.6	-152.4	-161.5	-170.8	-182.4
		60	-132.4	-148.1	-157.2	-166.6	-176.2	-188.2
	3	20	-129.7	-145.1	-154.0	-163.2	-172.7	-184.4
		25	-134.5	-150.5	-159.7	-169.3	-179.1	-191.2
		30	-139.3	-155.9	-165.4	-175.3	-185.5	-198.1
		40	-146.5	-163.9	-174.0	-184.4	-195.1	-208.3
		50	-152.5	-170.6	-181.1	-192.0	-203.1	-216.8
		60	-157.3	-176.0	-186.8	-198.0	-209.5	-223.7
Partially Enclosed	1	20	-87.5	-97.9	-103.9	-110.1	-116.5	-124.4
		25	-90.7	-101.5	-107.8	-114.2	-120.8	-129.0
		30	-94.0	-105.1	-111.6	-118.3	-125.1	-133.6
		40	-98.8	-110.6	-117.4	-124.4	-131.6	-140.5
		50	-102.9	-115.1	-122.2	-129.5	-137.0	-146.3
		60	-106.1	-118.7	-126.0	-133.6	-141.3	-150.9
	2	20	-121.8	-136.3	-144.7	-153.3	-162.2	-173.2
		25	-126.3	-141.3	-150.0	-159.0	-168.2	-179.6
		30	-130.8	-146.4	-155.4	-164.7	-174.2	-186.0
		40	-137.6	-154.0	-163.4	-173.2	-183.2	-195.6
		50	-143.3	-160.3	-170.1	-180.3	-190.7	-203.6
		60	-147.8	-165.3	-175.5	-186.0	-196.7	-210.1
	3	20	-142.4	-159.3	-169.1	-179.2	-189.6	-202.5
		25	-147.7	-165.2	-175.4	-185.8	-196.6	-210.0
		30	-153.0	-171.1	-181.6	-192.5	-203.6	-217.4
		40	-160.9	-180.0	-191.0	-202.4	-214.2	-228.7
		50	-167.5	-187.3	-198.9	-210.7	-223.0	-238.1
		60	-172.7	-193.2	-205.1	-217.4	-230.0	-245.6

**END OF REPORT**  
FL41929

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.