

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

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: GLOBAL INNOVATION, LLC

Issued June 9, 2022

496 SW Ring Court Lake City, FL 32025 (877) 784-2824 www.endureed.com

Manufacturing: Lake City, FL

Quality Assurance: PRI Construction Materials Technologies (QUA9110)

SCOPE

Category: Roofing

Subcategory: Roofing Accessories that are an Integral Part of the Roofing System

Code Sections: 1504.3.1

Properties: Wind Resistance

REFERENCES

Entity	Report No.	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	CCR-008-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	CCR-009-02-01A	UL 1897	2012
PRI Construction Materials Technologies (TST5878)	CCR-009-02-01B	UL 1897	2012
PRI Construction Materials Technologies (TST5878)	CCR-010-02-01A	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	CCR-010-02-01B	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	CCR-011-02-01	ASTM 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	CCR-012-02-01	ASTM D 3462	2010A
		ASTM D 882	2012
PRI Construction Materials Technologies (TST5878)	CCR-015-02-01	UL 1897	2012
PRI Construction Materials Technologies (TST5878)	CCR-015-02-02	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	191T0004	UL 1897	2012
Trinity ERD	S35000.12.10-R16	ASTM D 6163	2000(20015)E1

LIMITATIONS

- This evaluation report is not for use in the HVHZ.
- 2. Fire classification is not within the scope of this evaluation.
- 3. 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.
- 4. The roof system shall not be installed over an existing roof.
- 5. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 6. Quality Assurance for SOPREMA modified bituminous roofing products is provided under FL3915.
- 7. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

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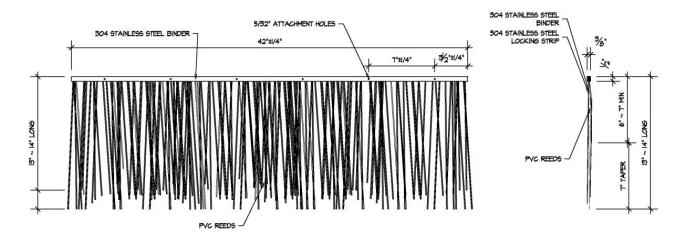
PRODUCT DESCRIPTION

Endureed - Regions (RFMB 2000)

Profile: Synthetic thatch shingle;

Description: 42 in. width x 14-15 in. tall, 6.5 to 8 in. headlap; Panels abutted end-to-end

Material: PVC reeds bound by 23 ga. grade 304 stainless steel binder strip

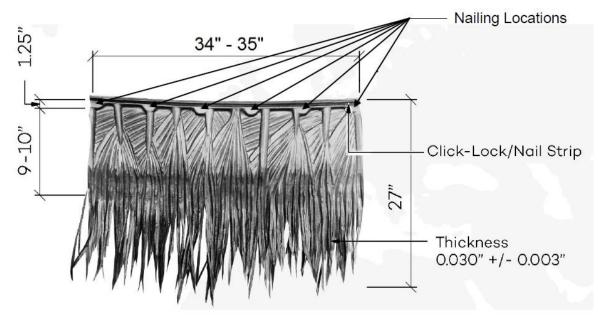


Endureed - Viva (TFSC 0014)

Profile: Synthetic thatch shingle

Description: 34-35 in. width x 25-27 in. tall, 7.5 in. headlap; Minimum 2.5 in. side lap;

Material: Synthetic palm thatch comprised of composite HDPE





APPROVED ASSEMBLIES

System 1 – Endureed - Regions									
Slope:		2:12 or gre	2:12 or greater						
Roof Deck:	Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction max. 24 in. span; Designed by others in accordance with FBC requirements.						truction at		
Roof Covering: SOPREMA Elastophene Stick HR FR GR shall be applied direct to plywood accordance with the manufacturer's installation instructions.						d deck in			
Surfacing: Endureed "Regions" synthetic thatch shingles shall be installed by fastening with four seven (7) 11 ga. x 1.75 in. stainless steel ring shank roofing nails per panel. The shall be placed in the predrilled holes at either end of each binder and spaced betwee end nails as evenly as possible and shall comply with FBC Section 1506.5.						The nails			
Maximum Des Pressures:	sign	-82.5 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									
_				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	48 ft	33 ft
С	60 ft	60 ft	60 ft	60 ft	59 ft	33 ft	19 ft	NA	NA
D	60 ft	60 ft	60 ft	54 ft	25 ft	NA	NA	NA	NA
Zone 2 (includes 2e, 2n, and 2r) – Perimeter									
В	60 ft	60 ft	60 ft	60 ft	42 ft	28 ft	18 ft	NA	NA
С	60 ft	60 ft	34 ft	18 ft	NA	NA	NA	NA	NA
D	60 ft	32 ft	NA	NA	NA	NA	NA	NA	NA
Zone 3 (includes 3e and 3r) – Corner									
В	60 ft	60 ft	59 ft	36 ft	23 ft	15 ft	NA	NA	NA
С	60 ft	31 ft	15 ft	NA	NA	NA	NA	NA	NA
D	29 ft	NA	NA 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 5 for details for dimensions and locales of Zone 1, 2, and 3
- 9) Vult is shown in the above table. Design pressures are calculated using Vasd = Vult \(^1\)0.6 per 1609.3.1.



System 2 -	- Endure	ed - Viva							
Slope:		2:12 or greater							
Roof Deck:	of Deck: Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction max. 24 in. span; Designed by others in accordance with FBC requirements.						struction at		
Roof Covering: SOPREMA Elastophene Stick HR FR GR shall be applied direct to plyword accordance with the manufacturer's installation instructions.						t to plywoo	d deck in		
Surfacing: Endureed "Viva" synthetic thatch shingles shall be installed by fastening with six (6) in. x 1.25 in. stainless steel ring shank roofing nails approximately 8-inch o.c. The shall be placed in the premolded nail locations. Side laps shall be offset 8-inches be courses. Nails shall comply with FBC Section 1506.5.						The nails			
Maximum Des Pressures:	sign	-97.5 psf Pressure ca	alculated using	g 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	42 ft	25 ft	15 ft
D	60 ft	60 ft	60 ft	60 ft	60 ft	33 ft	17 ft	NA	NA
Zone 2 (includes 2e, 2n, and 2r) – Perimeter									
В	60 ft	60 ft	60 ft	60 ft	60 ft	50 ft	33 ft	23 ft	16 ft
С	60 ft	60 ft	60 ft	40 ft	21 ft	NA	NA	NA	NA
D	60 ft	60 ft	35 ft	16 ft	NA	NA	NA	NA	NA
Zone 3 (includes 3e and 3r) – Corner									
В	60 ft	60 ft	60 ft	60 ft	42 ft	27 ft	18 ft	NA	NA
С	60 ft	60 ft	33 ft	17 ft	NA	NA	NA	NA	NA
D	60 ft	31 ft	31 ft NA NA NA NA NA NA NA NA						

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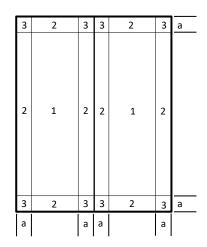


System 3 - Endureed - Viva										
Slope:		2:12 or greater								
Roof Deck: Solid or closely fitted min. 19/32 in. plywood sheathing for new and existing consmax. 24 in. span; Designed by others in accordance with FBC requirements.						struction at				
Primer:		SOPREMA	A, Inc. Elast	acol Stick Z	ero applied	at a rate of	0.5-1.0 gal/1	100ft ²		
Roof Covering: SOPREMA, Inc. Elastophene Stick HR FR GR shall be applied direct to plyw accordance with the manufacturer's installation instructions.					ect to plywo	od deck in				
Surfacing: Endureed "Viva" synthetic thatch shingles shall be installed by folding the top of shingle back and under 1-inch and then fastening with six (6) 0.120 in. x 1.25 in. stainle steel ring shank roofing nails approximately 6 to 7-inches o.c. Side laps shall be offset inches between courses. Nails shall comply with FBC Section 1506.5.						. stainless				
Maximum Des Pressures:	sign	-127.5 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										
		⁹ Basic Wind Speed (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	55 ft	
D	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	43 ft	24 ft	
Zone 2 (includes 2e, 2n, and 2r) – Perimeter										
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	59 ft	41 ft	
С	60 ft	60 ft	60 ft	60 ft	60 ft	43 ft	25 ft	15 ft	NA	
D	60 ft	60 ft	60 ft	60 ft	36 ft	17 ft	NA	NA	NA	
Zone 3 (includes 3e and 3r) – Corner										
В	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	47 ft	32 ft	22 ft	
С	60 ft	60 ft	60 ft	60 ft	34 ft	19 ft	NA	NA	NA	
D	60 ft	60 ft	60 ft 60 ft 28 ft NA NA NA NA NA							

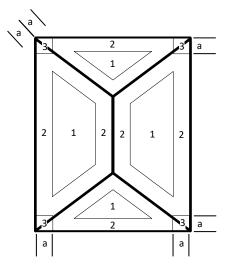
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Gable



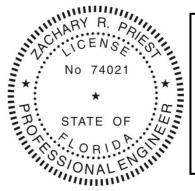
Hip



Zones 1, 2, and 3 shall be defined as shown above. 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.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) 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 6/9/2022.

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.

END OF REPORT

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