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

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: G.A.P. ROOFING, INC. Issued October 13, 2021

4444 Hunt Street Pryor, OK 74361 (800) 880-9808 www.gaproofing.us

Manufacturing Location: Pryor, OK

Quality Assurance: Keystone Certifications ,Inc. (QUA1824)

SCOPE

Category: Roofing Subcategory: Underlayments

Code Edition: Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ)

Code Sections: 1507.1.1, 1507.3.3, 1523.1.1, 1523.6.5.2.1

Properties: Physical properties

REFERENCES

Entity	Report No.	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	GAPR-014-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	GAPR-018-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	GAPR-029-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	GAPR-030-02-01	ASTM D 1623	2017
PRI Construction Materials Technologies (TST5878)	GAPR-034-02-01	ASTM D 1623	2017
PRI Construction Materials Technologies (TST5878)	GAPR-034-02-01.1	TAS 103	2020
PRI Construction Materials Technologies (TST5878)	GAPR-034-02-02	TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1047T0001	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	1047T0004.1	TAS 110	2000
		TAS 103	2020
PRI Construction Materials Technologies (TST5878)	1047T0011	TAS 110	2000
		TAS 103	2020
PRI Construction Materials Technologies (TST5878)	1047T0012	TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1047T0016	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	1047T0017	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	1047T0018.1	TAS 103	2020
PRI Construction Materials Technologies (TST5878)	1047T0022.1	ASTM D 1970	2015a
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1047T0029	ASTM D 1623	2017
		TAS 103	2020
PRI Construction Materials Technologies (TST5878)	1047T0035	ASTM D 1623	2017
		TAS 103	2020
PRI Construction Materials Technologies (TST5878)	1047T0040	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	1047T0041	TAS 103	2020
PRI Construction Materials Technologies (TST5878)	1047T0042	TAS 110	2000
		TAS 103	2020
PRI Construction Materials Technologies (TST5878)	1047T0043	ASTM D 1623	2017
		TAS 103	2020
PRI Construction Materials Technologies (TST5878)	1047T0044	ASTM D 1623	2017
PRI Construction Materials Technologies (TST5878)	1047T0046	UL1897	2012
		ASTM D 903	1998(2010)
PRI Construction Materials Technologies (TST5878)	1047T0047A	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	1047T0047B	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	1047T0047C	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	1047T0049	ANSI/FM 4474	2011

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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.



PRODUCT DESCRIPTION AND LIMITS OF USE

WaterGuard Self-Adhered MetalGuard HT

WaterGuard Self-Adhered MetalGuard HT is a nominal 60-mil thick ASTM D 1970 self-adhered underlayment constructed with a SBS polymer modified asphalt top coating and a non-abrasive UV stable, anti-skid polymer film. The product is supplied in 2 sq. rolls with nominal dimensions of 36-in, x 67-ft.

Exposure on the roof deck shall be limited to a maximum 30 days.

WaterGuard Self-Adhered MetalGuard HT MW

WaterGuard Self-Adhered MetalGuard HT MW is an ASTM D 1970, TAS 103, and FRSA/TRI Florida High Wind Concrete and Clay Tile Installation Manual, Sixth Edition compliant self-adhered underlayment constructed with a SBS polymer modified asphalt top coating and a non-abrasive UV stable, anti-skid polymer film. The product is supplied in rolls having nominal dimensions of 39 3/8-in. x 66-ft.

Exposure on the roof deck shall be limited to a maximum 180 days. Tiles shall be placed on battens for all roof slopes.

WaterGuard Self-Adhered MetalGuard Trax

WaterGuard Self-Adhered MetalGuard Trax is a nominal 60-mil thick ASTM D 1970 self-adhered underlayment constructed with a dual SBS polymer formulation and a non-woven, high temp, UV stable, anti-skid synthetic surface. The product is supplied in rolls having nominal dimensions of 36-in, x 67-ft.

Exposure on the roof deck shall be limited to a maximum 120 days.

WaterGuard Rain & Ice

WaterGuard Rain & Ice is a nominal 55-mil thick ASTM D 1970 self-adhered underlayment constructed with a SBS polymer modified asphalt top coating and surfaced with a sand release agent. The product is supplied in 2 sq. rolls with nominal dimensions of 36-in x 67-ft.

Exposure on the roof deck shall be limited to a maximum 90 days.

WaterGuard Self-Adhered TileGuard HT

WaterGuard Self-Adhered TileGuard HT is a nominal 80-mil thick ASTM D 1970, TAS 103, and FRSA/TRI *Florida High Wind Concrete and Clay Tile Installation* Manual, Sixth Edition compliant self-adhered underlayment constructed with a dual SBS polymer formulation and a non-woven, high temp, UV stable, anti-skid polyester top surface. The product is supplied in 2 sq. rolls with nominal dimensions of 39 3/8-in x 66-ft.

Exposure on the roof deck shall be limited to a maximum 180 days. The maximum roof slope shall be 6:12 when the roof tiles are placed directly on the underlayment. Tiles shall be placed on battens for roof slopes greater than 6:12.

WaterGuard Self-Adhered TileGuard Ultra

WaterGuard Self-Adhered TileGuard Ultra is a nominal 80-mil thick ASTM D 1970, TAS 103, and FRSA/TRI *Florida High Wind Concrete and Clay Tile Installation* Manual, Sixth Edition self-adhered underlayment constructed with a dual SBS polymer formulation and a non-woven, high temp, UV stable, polyester reinforced top surface. The product is supplied in 2 sq. rolls with nominal dimensions of 39 3/8-in x 66-ft.

Exposure on the roof deck shall be limited to a maximum 180 days. The maximum roof slope shall be 6:12 when the roof tiles are placed directly on the underlayment. Tiles shall be placed on battens for roof slopes greater than 6:12.



PRODUCT APPLICATION

Min. Roof Slope:	2:12 in accordance with the FBC							
Roof Deck:	Shall be in accordance with the FBC require	ments.						
	In the non-HVHZ, the following roof deck sub	ostrates are	e permitted	for direct	deck applic	ations:		
	Underlayment	Plywood	Primed Plywood	Primed OSB	Concrete	Primed Concrete		
	WaterGuard Self-Adhered MetalGuard HT	Y	N	N	N	N		
	WaterGuard Self-Adhered MetalGuard HT MW	Y	Υ	N	Y	Υ		
	WaterGuard Self-Adhered MetalGuard Trax	Υ	N	N	N	N		
	WaterGuard Rain & Ice	Υ	N	N	N	N		
	WaterGuard Self-Adhered TileGuard HT	Y	Y	Υ	N	Υ		
	WaterGuard Self-Adhered TileGuard Ultra	Y	Y	N	Y	Υ		
Application:	All underlayments shall be installed in accordance with the FBC and the manufactures installation requirements. Substrates shall be clean, dry, and free from any irregularities and debris. All fasteners in the substrate shall be checked for protrusion and corrected prior to underlayment application. Prior to beginning installation, the underlayment shall be unrolled and allowed to relax for a minimular of 3-5 minutes.							
	The WaterGuard underlayments shall be installed with the release backer removed and pressed firmly into place to ensure complete contact with the substrate. The underlayment shall be installed with the roll length parallel to the eave, starting at the eave, and with 4" headlaps (MetalGuard and Rain & Ice only) or 3" headlaps (TileGuard) and minimum 6" end laps staggered min. 6-ft.from preceding course.							
	In the HVHZ, the WaterGuard underlayments shall be installed over one of more plies of ASTM D 226 Type II or ASTM D 2626 organic felt with minimum 4" headlaps and minimum 6" endlaps in accordance with FBC Section 1518.3.							
	It is permissible to backnail the WaterGuard underlayments 12-inches o.c. within the headlaps (nails shall be installed perpendicular to deck with the nail heads flush to the top surface of the underlayment).							
Min. Application Temperature:	40°F and rising; Contact the manufacturer when installing at temperatures below the minimum application temperature.							
Roof Coverings:	All WaterGuard underlayments are permitted to be used with mechanically fastened metal roofing, slate shingles, asphalt shingles, photovoltaic shingles, and composite plastic shingles in accordance with the FBC.							
	WaterGuard Self-Adhered MetalGuard HT MW is permitted to be used with mechanically fastened clay and concrete tiles set on battens only in accordance with the FBC.							
	WaterGuard Self-Adhered TileGuard Ultra is permitted to be used with mechanically fastened clay and concrete tiles in accordance with the FBC.							
	WaterGuard Self-Adhered TileGuard HT and WaterGuard Self-Adhered TileGuard Ultra are permitted to be used with mechanically fastened clay and concrete roof tiles or clay and concrete roof tiles set in the following roof tile adhesive in accordance with the FBC. 1. DuPont TILE BOND TM Roof Tile Adhesive 2. DAP Touch'n Seal Storm Bond Roof Tile Adhesive 3. ICP Adhesives Polyset AH-160							

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WIND RESISTANCE OF ROOF TILE UNDERLAYMENT SYSTEMS (NON-HVHZ ONLY)

The Allowable Design Pressures below shall be used in accordance with the FRSA/TRI Florida High Wind Concrete and Clay Tile Installation Manual, Sixth Edition for the selected underlayment system. The Allowable Design Pressures shown below were calculated using a 2:1 margin of safety per FBC Section 1504.9.

System No. 1 Direct Deck application

Roof Deck: Min. 15/32-inch CDX plywood attached to wood supports spaced a maximum 24" o.c.

The deck may be optionally primed with ASTM D 41 primer.

Underlayment: WaterGuard Self-Adhered MetalGuard HT MW, WaterGuard Self-Adhered

TileGuard Ultra or WaterGuard Self-Adhered TileGuard HT shall be self-adhered to the deck in accordance with manufacturer's installation instructions. The underlayment may be *optionally* backnailed along the selvage with minimum 12ga., 1-1/4-inch galvanized ring shank roofing nails through *optionally primed*, 32ga. x 1-5/8-inch Ø tin caps spaced 12" o.c. The applied underlayment shall be rolled with a

minimum 75lb steel roller immediately following application.

Allowable Design Pressure: -90 psf

System No. 2 Direct Deck application

Roof Deck: Concrete primed with ASTM D 41 primer

Underlayment: WaterGuard Self-Adhered MetalGuard HT MW, WaterGuard Self-Adhered

TileGuard Ultra or WaterGuard Self-Adhered TileGuard HT shall be self-adhered to the deck in accordance with manufacturer's installation instructions. The applied underlayment shall be rolled with a minimum 75lb steel roller immediately following

application.

Allowable Design Pressure: -67.5 psf

GENERAL LIMITATIONS

- 1) Fire Classification is not within the scope of this evaluation.
- Installation of the evaluated product 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.
- 3) The space under the deck area shall be properly ventilated in accordance with the FBC requirements.
- 4) All headlaps shall be installed to shed water from the deck.
- 5) The underlayment may be used as described in other current FBC product approval documents.
- The roof deck shall be designed by others in accordance with FBC requirements to resist the design wind load pressures for components and cladding.
- 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 7th Edition (2020) 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 10/13/2021.

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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