



# PRI Construction Materials Technologies LLC

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## Laboratory Test Report

**Report for:** Christi Passmore  
G.A.P. Roofing, Inc.  
4444 Hunt Street  
Pyro, OK 74361

**Product Name(s):** WaterGuard Self-Adhered TileGuard HT  
WaterGuard Self-Adhered TileGuard Ultra HT

**Project No.:** 1047T0030

**Date(s) Tested:** September 29, 2020

**Test Methods:** ASTM E 108-11, -17

**Results Summary:** TileGuard HT and TileGuard Ultra HT complies with Class A @ 5:12 slope with Concrete Tile over Min. 15/32 Plywood Sheathing

**Purpose:** Evaluate Spread of Flame characteristic in accordance with **ASTM E108: Standard Test Methods for Fire Tests of Roof Coverings**, Class A.

**Test Methods:** Spread of Flame Testing was conducted in accordance with **ASTM E108: Standard Test Methods for Fire Tests of Roof Covering**. Test parameters were set to evaluate Class A assemblies with concrete tile roofing coverings over 15/32 plywood decks. Intermittent Flame and Spread of Flame were omitted from examination due to the noncombustible nature of the roofing covering. All tests were conducted at a slope of 5:12.

**Sampling:** The following materials were received by PRI.

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
WaterGuard Self-Adhered TileGuard HT	Pryor, OK	Sep. 1, 2020	G.A.P. Roofing
WaterGuard Self-Adhered TileGuard Ultra HT	Pryor, OK	Sep. 1, 2020	G.A.P. Roofing

All other materials were procured through local sources of distribution.

**Calibration:** Two-minute average readings taken during calibration were as follows:

Air Velocity (mph)			Average Flame Temperature (°F)
Edge	Center	Edge	
12.0	11.8	12.3	11.8

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**Samples:** Samples were prepared for testing using the following installation details and in accordance with the manufacturer’s installation instructions:

System No. 1

**Roof Cover:** Eagle Roofing’s Bel Air concrete roof tile, loose laid  
**Underlayment:** WaterGuard Self-Adhered TileGuard HT self-adhered  
**Deck:** 15/32” thick, CDX Plywood

System No. 2

**Roof Cover:** Eagle Roofing’s Bel Air concrete roof tile, loose laid  
**Underlayment:** WaterGuard Self-Adhered TileGuard Ultra HT self-adhered  
**Deck:** 15/32” thick, CDX Plywood

**Results:** Test parameters were set to evaluate Class A assemblies. All. All tests were conducted at a test slope of 5:12.

Physical Properties	Results				Requirement
ASTM E108	Specimen 1	Specimen 2	Specimen 3	Specimen 4	
Class A Intermittent Flame <i>[Pass/Fail]</i>					
System No. 1	NT	NT			Pass
System No. 2	NT	NT			Pass
Class A Burning Brand <i>[Pass/Fail]</i>					
System No. 1	Pass	Pass	Pass	Pass	Pass
System No. 2	Pass	Pass	Pass	Pass	Pass
Class A Spread of Flame					
System No. 1	NT	NT			Pass
System No. 2	NT	NT			Pass

Notes: NT = “Not Tested”

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**Statement of Attestation:** Testing was conducted in accordance with **ASTM E108: Standard Test Methods for Fire Tests of Roof Coverings**, Class A. The laboratory test results presented in this report are representative of the materials supplied.

Signed:

  
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Zachary Priest, P.E.  
Director

**Report Issue History:**

Issue #	Date	Pages	Revision Description (if applicable)
Original	10/20/2020	11	NA

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**Company Name:** G.A.P. Roofing, Inc

**Project Number:** 1047T0030

**Product Name:** TileGuard HT Concrete

**Result:** Pass

<b>Roof Covering &amp; Attachment:</b>	Eagle Bel Air
<b>Intermediate Layer &amp; Attachment:</b>	TileGuard HT, self-adhered
<b>Deck Description:</b>	15/32in AC plywood attached to nominal 2in x 4in framing

**Test Type:** Burning Brand

**Deck #:** 1

**Plywood % MC:** 8

**Class:** A

**Deck Slope:** 5:12

**Framing % MC:** 8

**Brand #:** 731

**Char Depth:** N.A.

**Brand Weight:** 1896.8

<b>Object:</b>	<b>Time:</b>	
	<b>Minutes:</b>	<b>Seconds:</b>
Brand 50% Consumed	5	23
Brand 75% Consumed	6	38
Brand 100% Consumed	13	45
Test Terminated	17	43

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**Company Name:** G.A.P. Roofing, Inc

**Project Number:** 1047T0030

**Product Name:** TileGuard HT Concrete

**Result:** Pass

<b>Roof Covering &amp; Attachment:</b>	Eagle Bel Air
<b>Intermediate Layer &amp; Attachment:</b>	TileGuard HT, self-adhered
<b>Deck Description:</b>	15/32in AC plywood attached to nominal 2in x 4in framing

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 730  
**Brand Weight:** 1868

**Deck #:** 2  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

**Plywood % MC:** 8  
**Framing % MC:** 8

<b>Object:</b>	<b>Time:</b>	
	<b>Minutes:</b>	<b>Seconds:</b>
Brand 25% Consumed	4	34
Brand 50% Consumed	7	2
Brand 75% Consumed	8	59
Brand 100% Consumed	13	44
Test Terminated	17	23

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**Company Name:** G.A.P. Roofing, Inc

**Project Number:** 1047T0030

**Product Name:** TileGuard HT Concrete

**Result:** Pass

<b>Roof Covering &amp; Attachment:</b>	Eagle Bel Air
<b>Intermediate Layer &amp; Attachment:</b>	TileGuard HT, self-adhered
<b>Deck Description:</b>	15/32in AC plywood attached to nominal 2in x 4in framing

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 732  
**Brand Weight:** 1881.7

**Deck #:** 3  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

**Plywood % MC:** 8  
**Framing % MC:** 8

<b>Object:</b>	<b>Time:</b>	
	<b>Minutes:</b>	<b>Seconds:</b>
Brand 25% Consumed	4	7
Brand 50% Consumed	6	47
Brand 75% Consumed	9	24
Brand 100% Consumed	14	27
Test Terminated	15	57

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**Company Name:** G.A.P. Roofing, Inc

**Project Number:** 1047T0030

**Product Name:** TileGuard HT Concrete

**Result:** Pass

<b>Roof Covering &amp; Attachment:</b>	Eagle Bel Air
<b>Intermediate Layer &amp; Attachment:</b>	TileGuard HT, self-adhered
<b>Deck Description:</b>	15/32in AC plywood attached to nominal 2in x 4in framing

**Test Type:** Burning Brand

**Deck #:** 4

**Plywood % MC:** 8

**Class:** A

**Deck Slope:** 5:12

**Framing % MC:** 8

**Brand #:** 733

**Char Depth:** N.A.

**Brand Weight:** 1903.4

<b>Object:</b>	<b>Time:</b>	
	<b>Minutes:</b>	<b>Seconds:</b>
Brand 25% Consumed	3	15
Brand 50% Consumed	4	50
Brand 75% Consumed	7	47
Brand 100% Consumed	17	52
Test Terminated	17	57

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**Company Name:** G.A.P Roofing, Inc

**Project Number:** 1047T0030

**Product Name:** TileGuard Ultra HT Cor

**Result:** Pass

<b>Roof Covering &amp; Attachment:</b>	Eagle Bel Air
<b>Intermediate Layer &amp; Attachment:</b>	TileGuard Ultra HT, self-adhered
<b>Deck Description:</b>	15/32in AC plywood attached to nominal 2in x 4in framing

**Test Type:** Burning Brand

**Deck #:** 1

**Plywood % MC:** 8

**Class:** A

**Deck Slope:** 5:12

**Framing % MC:** 8

**Brand #:** 726

**Char Depth:** N.A.

**Brand Weight:** 1897.9

<b>Object:</b>	<b>Time:</b>	
	<b>Minutes:</b>	<b>Seconds:</b>
Brand 25% Consumed	3	34
Brand 50% Consumed	5	14
Brand 75% Consumed	7	11
Brand 100% Consumed	18	56
Test Terminated	22	13

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**Company Name:** G.A.P Roofing, Inc

**Project Number:** 1047T0030

**Product Name:** TileGuard Ultra HT Cor

**Result:** Pass

<b>Roof Covering &amp; Attachment:</b>	Eagle Bel Air
<b>Intermediate Layer &amp; Attachment:</b>	TileGuard Ultra HT, self-adhered
<b>Deck Description:</b>	15/32in AC plywood attached to nominal 2in x 4in framing

**Test Type:** Burning Brand

**Deck #:** 2

**Plywood % MC:** 8

**Class:** A

**Deck Slope:** 5:12

**Framing % MC:** 8

**Brand #:** 727

**Char Depth:** N.A.

**Brand Weight:** 1906.3

<b>Object:</b>	<b>Time:</b>	
	<b>Minutes:</b>	<b>Seconds:</b>
Brand 25% Consumed	4	58
Brand 50% Consumed	6	18
Brand 75% Consumed	9	59
Brand 100% Consumed	15	8
Test Terminated	16	24

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**Company Name:** G.A.P Roofing, Inc

**Project Number:** 1047T0030

**Product Name:** TileGuard Ultra HT

**Result:** Pass

<b>Roof Covering &amp; Attachment:</b>	Eagle Bel Air
<b>Intermediate Layer &amp; Attachment:</b>	TileGuard Ultra HT, self-adhered
<b>Deck Description:</b>	15/32in AC plywood attached to nominal 2in x 4in framing

**Test Type:** Burning Brand

**Deck #:** 3

**Plywood % MC:** 8

**Class:** A

**Deck Slope:** 5:12

**Framing % MC:** 8

**Brand #:** 728

**Char Depth:** N.A.

**Brand Weight:** 1899.2

<b>Object:</b>	<b>Time:</b>	
	<b>Minutes:</b>	<b>Seconds:</b>
Brand 25% Consumed	4	30
Brand 50% Consumed	6	55
Brand 75% Consumed	8	50
Brand 100% Consumed	17	49
Test Terminated	21	17

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**Company Name:** G.A.P Roofing, Inc

**Project Number:** 1047T0030

**Product Name:** TileGuard Ultra HT Concrete

**Result:** Pass

<b>Roof Covering &amp; Attachment:</b>	Eagle Bel Air
<b>Intermediate Layer &amp; Attachment:</b>	TileGuard Ultra HT, self-adhered
<b>Deck Description:</b>	15/32in AC plywood attached to nominal 2in x 4in framing

**Test Type:** Burning Brand

**Deck #:** 4

**Plywood % MC:** 8

**Class:** A

**Deck Slope:** 5:12

**Framing % MC:** 8

**Brand #:** 729

**Char Depth:** N.A.

**Brand Weight:** 1884.9

<b>Object:</b>	<b>Time:</b>	
	<b>Minutes:</b>	<b>Seconds:</b>
Brand 25% Consumed	5	27
Brand 50% Consumed	6	58
Brand 75% Consumed	7	52
Brand 100% Consumed	15	20
Test Terminated	16	25

**END OF REPORT**

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